284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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DATA PACKAGE

GC SEMI-VOLATILES

PROJECT NAME : RFP 916

WESTON SOLUTIONS, INC.

1090 King Georges Post Road

Suite 201

Edison, NJ - 08837-3703

Phone No: 732-585-4410

ORDER ID : Q3177

ATTENTION : Smita Sumbaly

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q3177

Project ID : RFP 916

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
Q3177-01	EME-TS12-01
Q3177-02	EME-TS13-01
Q3177-03	EME-TS14-02

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 : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:17 am, Oct 03, 2025

Date: 10/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 916
Project # N/A
Order ID # Q3177
Test Name: EPH

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 09/23/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: EPH. This data package contains results for EPH.

C. Analytical Techniques:
The analysis were performed on instrument FID_C. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis were performed on instrument FID_E. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis were performed on instrument FID_F. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of EPHs was based on method NJEPH and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Retention Times were met for all analysis.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the requirements for all compounds.
The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.

E. Additional Comments:

F. Calculation for Concentration in Water Samples:

$$C\ (ug/L) = \frac{(A)\ (D)\ (Ve)}{CF\ (Vs)}$$

Where:
C = Concentration of each compound or hydrocarbon range, ug/L

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A = Area response of each compound or carbon range to be measured
D = Dilution Factor
Vs = Volume of sample extracted, mL
Ve = Final volume of extract, uL
CF = Calibration factor of each compound or carbon range for each fraction

G. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:17 am, Oct 03, 2025

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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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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3177 MATRIX: Solid

METHOD: NJEPH/3541

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified.			✓
2.	Standard Summary Submitted.			✓
3.	Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD. The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			✓
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
5.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS recoveries met the requirements for all compounds. The MSD recoveries met the requirements for all compounds The Blank Spike met requirements for all compounds. The RPD were met for all analysis.			✓
7.	Retention Time Shift Meet Criteria (if applicable) Comments:			✓
8.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

		NA	NO	YES
9.	Analysis Holding Time Met			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			

ADDITIONAL COMMENTS:

QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 10:10 am, Oct 03, 2025

Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3177

	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: SOHIL JODHANI **Date:** 10/03/2025

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LAB CHRONICLE

OrderID:	Q3177	**OrderDate:**	9/24/2025 10:36:00 AM
Client:	Weston Solutions, Inc.	**Project:**	RFP 916
Contact:	Smita Sumbaly	**Location:**	J23

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3177-01	**EME-TS12-01**	**Water**			**09/23/25**			**09/23/25**
			EPH	NJEPH		09/29/25	09/30/25	
			SPLP PCB	8082A		09/29/25	09/30/25	
			SPLP Pesticide	8081B		09/29/25	09/29/25	
Q3177-02	**EME-TS13-01**	**Water**			**09/23/25**			**09/23/25**
			EPH	NJEPH		09/29/25	09/29/25	
			EPH	NJEPH		09/29/25	09/30/25	
			SPLP PCB	8082A		09/29/25	09/30/25	
			SPLP Pesticide	8081B		09/29/25	09/29/25	
Q3177-03	**EME-TS14-02**	**Water**			**09/23/25**			**09/23/25**
			EPH	NJEPH		09/29/25	09/29/25	
			EPH	NJEPH		09/29/25	09/30/25	
			SPLP PCB	8082A		09/29/25	09/30/25	
			SPLP Pesticide	8081B		09/29/25	09/29/25	

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG No.: Q3177

Run Number: FC100125AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
EME-TS12-01	93			0
EME-TS13-01	97			0
EME-TS14-02	85			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: Alliance Contract: ROYF02

Lab Code: ACE SDG No.: Q3177

Run Number: FD093025AR

CLIENT SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
EME-TS12-01	80	53	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: Alliance Contract: ROYF02

Lab Code: ACE SDG No.: Q3177

Run Number: FE092925AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB169879BL	67			0
PB169879BS	86			0
PB169879TB	67			0
Q3179-02	118			0
Q3179-03	117			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: Alliance Contract: ROYF02

Lab Code: ACE SDG No.: Q3177

Run Number: FF092925AR

CLIENT SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB169879BL	95	85	77	0
PB169879BS	108	109	91	0
PB169879TB	96	86	78	0
EME-TS13-01	100	99	96	0
EME-TS14-02	110	110	106	0
Q3179-02	101	91	99	0
Q3179-03	99	90	97	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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WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** Weston Solutions, Inc.

Lab Code: ACE **SDG No:** Q3177

Sample No : Q3179-02 **Datafile:** FE056056.D **Client ID :** Q3179-02

COMPOUND	SPIKE ADDED ug/l	SAMPLE CONCENTRATION ug/l	MS/MSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS (%)
Aliphatic C9-C12	300	8.68	333	108		(40-140)
Aliphatic C12-C16	200	17.2	293	137		(40-140)
Aliphatic C16-C21	300	100	404	101		(40-140)
Aliphatic C21-C28	400	0	486	121		(40-140)
Aliphatic C28-C40	600	403	1130	121		(40-140)

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WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** Weston Solutions, Inc.

Lab Code: ACE **SDG No:** Q3177

Sample No : Q3179-03 **Datafile:** FE056057.D **Client ID :** Q3179-03

COMPOUND	SPIKE ADDED ug/l	SAMPLE CONCENTRATION ug/l	MS/MSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS (%)	QC Limit Of RPD
Aliphatic C9-C12	300	8.68	329	106		1.87 |	(40-140)	50
Aliphatic C12-C16	200	17.2	286	134		2.21 |	(40-140)	50
Aliphatic C16-C21	300	100	401	100		1 |	(40-140)	50
Aliphatic C21-C28	400	0	491	122		0.82 |	(40-140)	50
Aliphatic C28-C40	600	403	1120	119		1.67 |	(40-140)	50

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WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** Weston Solutions, Inc.

Lab Code: ACE **SDG No:** Q3177

Sample No : Q3179-02 **Datafile:** FF016477.D **Client ID :** Q3179-02

COMPOUND	SPIKE ADDED ug/l	SAMPLE CONCENTRATION ug/l	MS/MSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS (%)
Aromatic C10-C12	200	3.71	222	109		(40-140)
Aromatic C12-C16	300	7.91	422	138		(40-140)
Aromatic C16-C21	500	43.8	656	122		(40-140)
Aromatic C21-C36	800	0	948	118		(40-140)

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WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** Weston Solutions, Inc.

Lab Code: ACE **SDG No:** Q3177

Sample No : Q3179-03 **Datafile:** FF016478.D **Client ID :** Q3179-03

COMPOUND	SPIKE ADDED ug/l	SAMPLE CONCENTRATION ug/l	MS/MSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS (%)	QC Limit Of RPD
Aromatic C10-C12	200	3.71	216	106		2.79 |	(40-140)	50
Aromatic C12-C16	300	7.91	359	117		16.5 |	(40-140)	50
Aromatic C16-C21	500	43.8	745	140		13 |	(40-140)	50
Aromatic C21-C36	800	0	933	116		1.71 |	(40-140)	50

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** Weston Solutions, Inc.

Lab Code: ACE **SDG No:** Q3177

Sample No : PB169879BS **Datafile:** FE056074.D **Client ID :** PB169879BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS (%)
Aliphatic C9-C12	300	135	45		(40-140)
Aliphatic C12-C16	200	131	66		(40-140)
Aliphatic C16-C21	300	232	77		(40-140)
Aliphatic C21-C28	400	308	77		(40-140)
Aliphatic C28-C40	600	513	86		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** Weston Solutions, Inc.

Lab Code: ACE **SDG No:** Q3177

Sample No : PB169879BS **Datafile:** FF016471.D **Client ID :** PB169879BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS (%)
Aromatic C10-C12	200	160	80		(40-140)
Aromatic C12-C16	300	266	89		(40-140)
Aromatic C16-C21	500	469	94		(40-140)
Aromatic C21-C36	800	747	93		(40-140)

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4B

METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB169879BL

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG NO.: Q3177

Instrument ID: FID_C Lab Sample ID: PB169879BL

Matrix: (soil/water) Water Date Extracted: 9/29/2025 8:30:00 A

Level: (low/med) low

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

CLIENT SAMPLE NO.	LAB SAMPLE ID
PB169879BS	PB169879BS
EME-TS12-01	Q3177-01
EME-TS13-01	Q3177-02
EME-TS14-02	Q3177-03
PB169879TB	PB169879TB

COMMENTS:

Form IV

SAMPLE DATA

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS12-01	SDG No.:	Q3177
Lab Sample ID:	Q3177-01	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
09/29/25 08:30	09/30/25 11:12	PB169879

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	7.30	J	1	8.28	30.0	ug/l	FC069877.D
Aliphatic C12-C16	Aliphatic C12-C16	8.90	J	1	13.5	20.0	ug/l	FC069877.D
Aliphatic C16-C21	Aliphatic C16-C21	86.7		1	8.34	30.0	ug/l	FC069877.D
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	1	12.5	40.0	ug/l	FC069877.D
Aliphatic C28-C40	Aliphatic C28-C40	66.0		1	23.8	60.0	ug/l	FC069877.D
Aromatic C10-C12	Aromatic C10-C12	6.60	J	1	2.07	20.0	ug/l	FD049778.D
Aromatic C12-C16	Aromatic C12-C16	11.6	J	1	4.26	30.0	ug/l	FD049778.D
Aromatic C16-C21	Aromatic C16-C21	128		1	8.27	50.0	ug/l	FD049778.D
Aromatic C21-C36	Aromatic C21-C36	23.8	U	1	23.8	80.0	ug/l	FD049778.D
Total AliphaticEPH	Total AliphaticEPH	169	J		66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	146	J		38.4	180	ug/l	
Total EPH	Total EPH	315	J		105	360	ug/l	

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:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS12-01	SDG No.:	Q3177
Lab Sample ID:	Q3177-01	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069877.D	1	09/29/25	09/30/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	7.30	J	8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	8.90	J	13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	86.7		8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	66.0		23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	46.3		40 - 140	93%	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:	Q3177-01	Acq On:	30 Sep 2025 11:12
Client Sample ID:	EME-TS12-01	Operator:	YP/AJ
Data file:	FC069877.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	3.284	6.578	487635	3.652	300	ug/ml
Aliphatic C12-C16	6.579	9.980	697199	4.45	200	ug/ml
Aliphatic C16-C21	9.981	13.346	7783952	43.353	300	ug/ml
Aliphatic C21-C28	13.347	17.008	534754	2.955	400	ug/ml
Aliphatic C28-C40	17.009	21.963	4243591	32.979	600	ug/ml
Aliphatic EPH	3.284	21.963	13747131	87.389		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.083	13.083	7308655	46.28		ug/ml
Aliphatic C9-C28	3.284	17.008	9503540	54.41	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100125AL\
Data File : FC069877.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 11:12
Operator : YP/AJ
Sample : Q3177-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EME-TS12-01

Integration File: autoint1.e
Quant Time: Sep 30 12:20:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.083	7308655	46.281 ug/ml
Spiked Amount 50.000		Recovery = 92.56%	
Target Compounds			

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

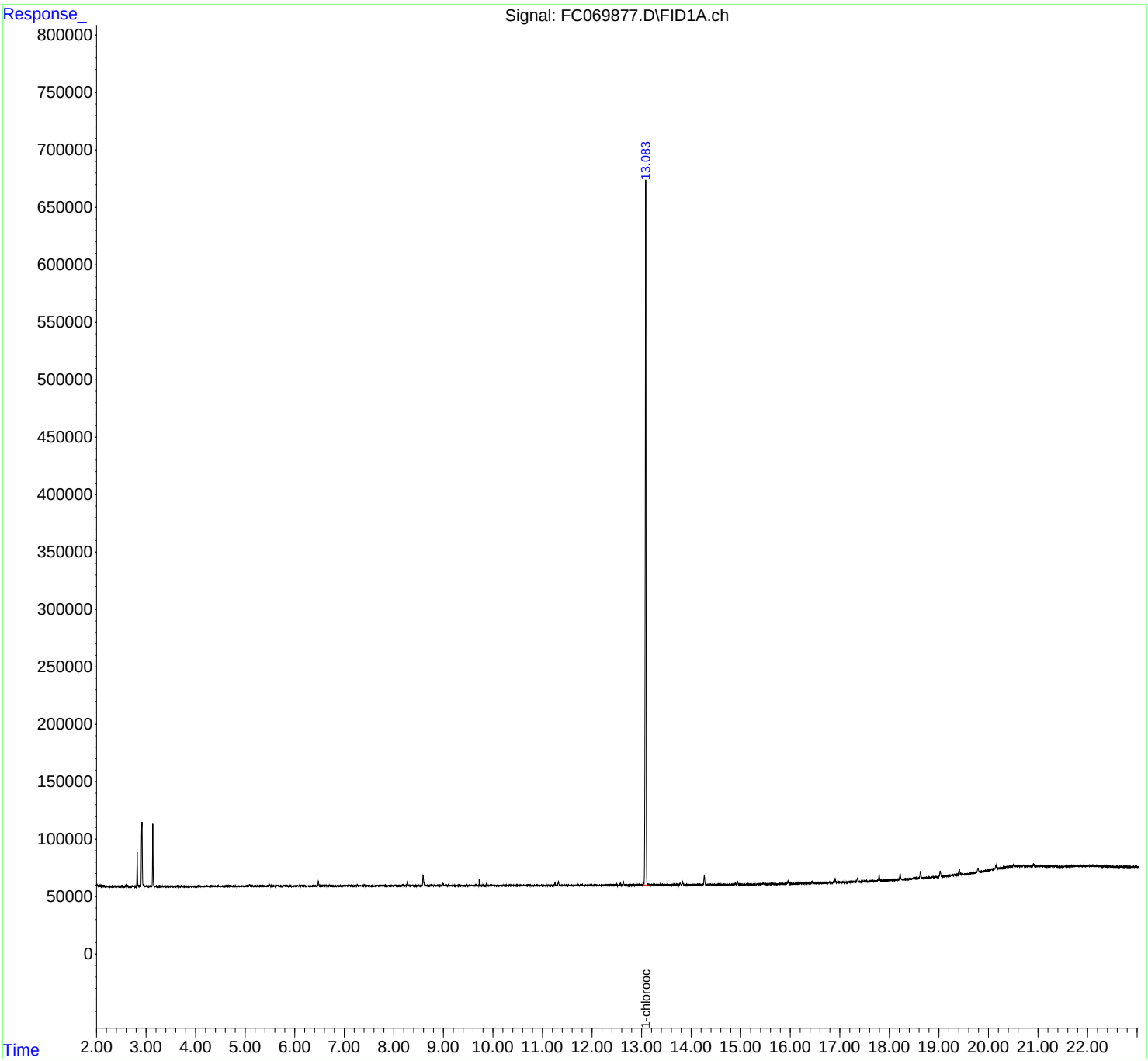
Quantitation Report (QT Reviewed)

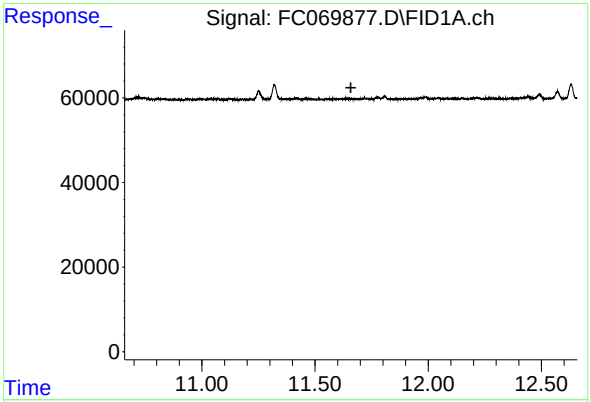
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100125AL\
Data File : FC069877.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 11:12
Operator : YP/AJ
Sample : Q3177-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EME-TS12-01

Integration File: autoint1.e
Quant Time: Sep 30 12:20:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

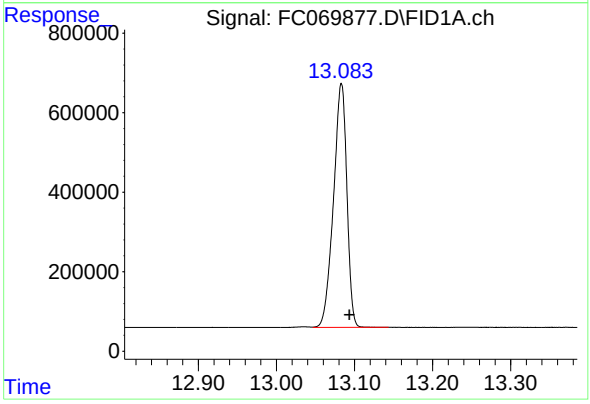




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.658 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EME-TS12-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.083 min
Delta R.T.: -0.011 min
Response: 7308655
Conc: 46.28 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100125AL\
Data File : FC069877.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 11:12
Sample : Q3177-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.234	3.204	3.269	BV	102	1207	0.02%	0.009%
2	3.296	3.269	3.304	PV	145	1788	0.02%	0.013%
3	3.329	3.304	3.357	VV	176	3540	0.05%	0.026%
4	3.384	3.357	3.444	VV	272	5015	0.07%	0.036%
5	3.451	3.444	3.476	PV	51	929	0.01%	0.007%
6	3.488	3.476	3.508	VV	258	2513	0.03%	0.018%
7	3.623	3.508	3.646	VV	168	6782	0.09%	0.049%
8	3.691	3.646	3.740	VV	146	4828	0.07%	0.035%
9	3.800	3.740	3.858	VV	165	5972	0.08%	0.043%
10	3.884	3.858	3.924	VV	250	5833	0.08%	0.042%
11	3.965	3.924	4.022	VV	199	7191	0.10%	0.052%
12	4.060	4.022	4.126	VV	378	11991	0.16%	0.087%
13	4.150	4.126	4.178	VV	312	4963	0.07%	0.036%
14	4.226	4.178	4.299	VV	558	16989	0.23%	0.124%
15	4.337	4.299	4.358	VV	237	5571	0.08%	0.041%
16	4.384	4.358	4.424	VV	417	7960	0.11%	0.058%
17	4.456	4.424	4.521	VV	928	15864	0.22%	0.115%
18	4.568	4.521	4.592	VV	308	9874	0.13%	0.072%
19	4.626	4.592	4.664	VV	517	13563	0.18%	0.099%
20	4.676	4.664	4.693	VV	464	5004	0.07%	0.036%
21	4.711	4.693	4.731	VV	533	7063	0.10%	0.051%
22	4.766	4.731	4.798	VV	291	8401	0.11%	0.061%
23	4.841	4.798	4.894	VV	337	13157	0.18%	0.096%
24	4.911	4.894	4.977	VV	204	8512	0.12%	0.062%
25	5.092	4.977	5.128	VV	1317	32673	0.44%	0.238%
26	5.146	5.128	5.234	VV	594	17938	0.24%	0.130%
27	5.284	5.234	5.349	VV	366	18784	0.26%	0.137%
28	5.387	5.349	5.434	VV	377	15620	0.21%	0.114%
29	5.449	5.434	5.473	VV	351	7022	0.10%	0.051%
30	5.497	5.473	5.516	VV	814	11925	0.16%	0.087%
31	5.534	5.516	5.581	VV	809	13898	0.19%	0.101%

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32	5.678	5.581	5.724	VV	413	25843	0.35%	0.188%
33	5.785	5.724	5.824	VV	382	14628	0.20%	0.106%
34	5.839	5.824	5.878	VV	270	7042	0.10%	0.051%
35	5.906	5.878	5.934	VV	256	6755	0.09%	0.049%
36	5.953	5.934	5.984	VV	285	6611	0.09%	0.048%
37	6.001	5.984	6.023	VV	306	5565	0.08%	0.040%
38	6.053	6.023	6.071	VV	497	9876	0.13%	0.072%
39	6.091	6.071	6.121	VV	434	9195	0.13%	0.067%
40	6.137	6.121	6.165	VV	484	8396	0.11%	0.061%
41	6.196	6.165	6.251	VV	641	15016	0.20%	0.109%
42	6.271	6.251	6.308	VV	238	7590	0.10%	0.055%
43	6.321	6.308	6.344	VV	197	4165	0.06%	0.030%
44	6.368	6.344	6.435	VV	302	11031	0.15%	0.080%
45	6.478	6.435	6.535	VV	4379	54129	0.74%	0.394%
46	6.560	6.535	6.608	VV	341	10630	0.14%	0.077%
47	6.627	6.608	6.684	VV	519	12206	0.17%	0.089%
48	6.700	6.684	6.784	VV	401	11622	0.16%	0.085%
49	6.811	6.784	6.831	VV	231	4931	0.07%	0.036%
50	6.874	6.831	6.896	VV	266	7328	0.10%	0.053%
51	6.923	6.896	6.954	VV	350	7243	0.10%	0.053%
52	6.974	6.954	7.010	VV	420	9215	0.13%	0.067%
53	7.031	7.010	7.068	VV	388	9630	0.13%	0.070%
54	7.101	7.068	7.194	VV	454	17824	0.24%	0.130%
55	7.207	7.194	7.227	VV	198	3416	0.05%	0.025%
56	7.263	7.227	7.320	VV	1195	19712	0.27%	0.143%
57	7.400	7.320	7.448	VV	532	18761	0.26%	0.136%
58	7.467	7.448	7.538	VV	315	10681	0.15%	0.078%
59	7.558	7.538	7.597	VV	172	4943	0.07%	0.036%
60	7.666	7.597	7.703	VV	512	13200	0.18%	0.096%
61	7.762	7.703	7.784	VV	315	10366	0.14%	0.075%
62	7.800	7.784	7.866	VV	299	9800	0.13%	0.071%
63	7.891	7.866	7.947	VV	216	7340	0.10%	0.053%
64	7.971	7.947	8.008	VV	358	7206	0.10%	0.052%
65	8.027	8.008	8.054	VV	834	10294	0.14%	0.075%
66	8.181	8.054	8.248	VV	819	35478	0.48%	0.258%
67	8.275	8.248	8.348	VV	3477	49150	0.67%	0.357%
68	8.375	8.348	8.446	VV	351	12703	0.17%	0.092%
69	8.468	8.446	8.490	PV	191	3847	0.05%	0.028%
70	8.509	8.490	8.559	VV	311	5441	0.07%	0.040%
71	8.592	8.559	8.714	VV	9487	153409	2.09%	1.116%
72	8.743	8.714	8.801	VV	398	17212	0.23%	0.125%
73	8.818	8.801	8.864	VV	377	10681	0.15%	0.078%
74	8.879	8.864	8.918	VV	226	6024	0.08%	0.044%
75	8.995	8.918	9.070	VV	1884	51705	0.70%	0.376%
76	9.115	9.070	9.168	VV	968	23967	0.33%	0.174%
77	9.188	9.168	9.218	VV	368	6317	0.09%	0.046%
78	9.236	9.218	9.251	VV	205	3949	0.05%	0.029%
79	9.278	9.251	9.308	VV	263	7073	0.10%	0.051%

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80	9.326	9.308	9.369	VV	257	8334	0.11%	0.061%
81	9.396	9.369	9.444	VV	329	8436	0.11%	0.061%
82	9.466	9.444	9.498	VV	541	8508	0.12%	0.062%
83	9.516	9.498	9.564	VV	250	6827	0.09%	0.050%
84	9.605	9.564	9.638	VV	349	8819	0.12%	0.064%
85	9.656	9.638	9.694	VV	713	10071	0.14%	0.073%
86	9.724	9.694	9.767	VV	2039	8892	0.12%	0.065%
87	9.798	9.767	9.846	VV	744	12671	0.17%	0.092%
88	9.878	9.846	9.925	VV	2404	33941	0.46%	0.247%
89	9.972	9.925	10.018	VV	197	8026	0.11%	0.058%
90	10.042	10.018	10.074	VV	126	3693	0.05%	0.027%
91	10.090	10.074	10.128	VV	107	2577	0.04%	0.019%
92	10.271	10.128	10.288	VV	266	13956	0.19%	0.102%
93	10.311	10.288	10.330	VV	301	4726	0.06%	0.034%
94	10.357	10.330	10.421	VV	199	7913	0.11%	0.058%
95	10.441	10.421	10.460	VV	143	2399	0.03%	0.017%
96	10.516	10.460	10.541	PV	249	8999	0.12%	0.065%
97	10.565	10.541	10.584	VV	275	5327	0.07%	0.039%
98	10.615	10.584	10.661	VV	417	10979	0.15%	0.080%
99	10.717	10.661	10.781	VV	680	25580	0.35%	0.186%
100	10.809	10.781	10.914	VV	299	12253	0.17%	0.089%
101	10.940	10.914	10.965	VV	198	3549	0.05%	0.026%
102	10.988	10.965	11.014	VV	189	4355	0.06%	0.032%
103	11.041	11.014	11.100	VV	270	7628	0.10%	0.055%
104	11.124	11.100	11.158	VV	196	4088	0.06%	0.030%
105	11.251	11.158	11.286	VV	2163	31208	0.42%	0.227%
106	11.321	11.286	11.391	VV	3524	50398	0.69%	0.367%
107	11.417	11.391	11.438	VV	394	6096	0.08%	0.044%
108	11.457	11.438	11.530	VV	235	5301	0.07%	0.039%
109	11.550	11.530	11.573	VV	79	1765	0.02%	0.013%
110	11.643	11.573	11.694	PV	229	8887	0.12%	0.065%
111	11.719	11.694	11.754	VV	273	6190	0.08%	0.045%
112	11.807	11.754	11.868	VV	757	16906	0.23%	0.123%
113	11.986	11.868	12.018	VV	473	16543	0.22%	0.120%
114	12.045	12.018	12.174	VV	285	14512	0.20%	0.106%
115	12.212	12.174	12.241	VV	319	7912	0.11%	0.058%
116	12.287	12.241	12.343	VV	217	7285	0.10%	0.053%
117	12.442	12.343	12.465	VV	581	16016	0.22%	0.116%
118	12.491	12.465	12.533	VV	1048	15812	0.21%	0.115%
119	12.571	12.533	12.600	VV	1762	23336	0.32%	0.170%
120	12.631	12.600	12.674	VV	3533	44630	0.61%	0.325%
121	12.693	12.674	12.713	VV	197	3422	0.05%	0.025%
122	12.749	12.713	12.854	VV	371	9767	0.13%	0.071%
123	12.881	12.854	12.895	PV	78	1781	0.02%	0.013%
124	12.915	12.895	12.934	VV	148	2863	0.04%	0.021%
125	12.951	12.934	12.974	VV	126	2261	0.03%	0.016%
126	13.082	12.974	13.212	VV	608415	7354639	100.00%	53.495%

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127	13.242	13.212	13.284	VV	540	12725	0.17%	0.093%
128	13.307	13.284	13.331	VV	242	5675	0.08%	0.041%
129	13.370	13.331	13.390	VV	444	6413	0.09%	0.047%
130	13.421	13.390	13.488	VV	332	12962	0.18%	0.094%
131	13.524	13.488	13.601	VV	257	10389	0.14%	0.076%
132	13.651	13.601	13.675	VV	753	12282	0.17%	0.089%
133	13.692	13.675	13.741	VV	273	7479	0.10%	0.054%
134	13.778	13.741	13.808	VV	1588	22931	0.31%	0.167%
135	13.830	13.808	13.866	VV	2768	35320	0.48%	0.257%
136	13.887	13.866	13.914	VV	135	3122	0.04%	0.023%
137	13.950	13.914	13.976	VV	102	2872	0.04%	0.021%
138	14.054	13.976	14.118	PV	205	9172	0.12%	0.067%
139	14.165	14.118	14.180	VV	115	3319	0.05%	0.024%
140	14.266	14.180	14.366	VV	8341	117805	1.60%	0.857%
141	14.394	14.366	14.438	VV	617	10443	0.14%	0.076%
142	14.463	14.438	14.507	VV	287	6731	0.09%	0.049%
143	14.562	14.507	14.630	VV	323	11285	0.15%	0.082%
144	14.655	14.630	14.688	VV	169	2866	0.04%	0.021%
145	14.774	14.688	14.831	VV	522	12660	0.17%	0.092%
146	14.890	14.831	14.911	VV	1070	16202	0.22%	0.118%
147	14.934	14.911	15.059	VV	2166	34502	0.47%	0.251%
148	15.104	15.059	15.154	VV	211	5230	0.07%	0.038%
149	15.177	15.154	15.201	PV	91	2001	0.03%	0.015%
150	15.245	15.201	15.289	VV	155	4451	0.06%	0.032%
151	15.348	15.289	15.401	PV	310	8941	0.12%	0.065%
152	15.455	15.401	15.574	VV	1024	22368	0.30%	0.163%
153	15.638	15.574	15.677	PV	130	3471	0.05%	0.025%
154	15.732	15.677	15.754	VV	114	3369	0.05%	0.025%
155	15.814	15.754	15.871	VV	200	8022	0.11%	0.058%
156	15.956	15.871	16.041	PV	2026	41452	0.56%	0.302%
157	16.129	16.041	16.171	PV	130	4258	0.06%	0.031%
158	16.341	16.171	16.361	VV	148	7468	0.10%	0.054%
159	16.440	16.361	16.501	VV	1483	22269	0.30%	0.162%
160	16.535	16.501	16.551	VV	72	1688	0.02%	0.012%
161	16.614	16.551	16.688	PV	155	5941	0.08%	0.043%
162	16.796	16.688	16.851	VV	202	8818	0.12%	0.064%
163	16.906	16.851	16.991	VV	2513	46252	0.63%	0.336%
164	17.009	16.991	17.031	PV	143	1974	0.03%	0.014%
165	17.236	17.031	17.268	PV	154	14118	0.19%	0.103%
166	17.288	17.268	17.304	VV	159	2345	0.03%	0.017%
167	17.357	17.304	17.424	VV	2967	46033	0.63%	0.335%
168	17.499	17.424	17.528	PV	301	10987	0.15%	0.080%
169	17.556	17.528	17.594	VV	192	4253	0.06%	0.031%
170	17.643	17.594	17.671	PV	182	5767	0.08%	0.042%
171	17.794	17.671	17.853	VV	4538	77979	1.06%	0.567%
172	17.970	17.853	17.988	PV	250	10033	0.14%	0.073%
173	18.072	17.988	18.104	PV	256	6322	0.09%	0.046%
174	18.217	18.104	18.258	VV	5093	79232	1.08%	0.576%

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175	18.483	18.258	18.501	PV	390	14742	0.20%	0.107%
176	18.522	18.501	18.564	VV	234	4999	0.07%	0.036%
177	18.628	18.564	18.694	PV	6049	94870	1.29%	0.690%
178	18.888	18.694	18.906	PV	411	17713	0.24%	0.129%
179	18.928	18.906	18.944	VV	284	4345	0.06%	0.032%
180	19.026	18.944	19.081	VV	5083	86081	1.17%	0.626%
181	19.276	19.081	19.298	VV	818	54805	0.75%	0.399%
182	19.322	19.298	19.348	VV	779	18897	0.26%	0.137%
183	19.412	19.348	19.491	VV	5406	129369	1.76%	0.941%
184	19.702	19.491	19.731	VV	1526	135765	1.85%	0.988%
185	19.787	19.731	19.821	VV	4957	136215	1.85%	0.991%
186	19.972	19.821	19.997	VV	3109	233852	3.18%	1.701%
187	20.067	19.997	20.084	VV	3143	150310	2.04%	1.093%
188	20.152	20.084	20.184	VV	6452	241381	3.28%	1.756%
189	20.386	20.184	20.400	VV	4451	502408	6.83%	3.654%
190	20.514	20.400	20.571	VV	6035	462404	6.29%	3.363%
191	20.594	20.571	20.661	VV	4197	216980	2.95%	1.578%
192	20.706	20.661	20.801	VV	4636	321328	4.37%	2.337%
193	20.909	20.801	20.950	VV	4333	313140	4.26%	2.278%
194	21.002	20.950	21.141	VV	3083	321959	4.38%	2.342%
195	21.175	21.141	21.234	VV	2329	122877	1.67%	0.894%
196	21.252	21.234	21.308	VV	2157	85146	1.16%	0.619%
197	21.355	21.308	21.421	VV	2077	108390	1.47%	0.788%
198	21.455	21.421	21.476	VV	1125	34469	0.47%	0.251%
199	21.740	21.476	21.768	VV	780	135053	1.84%	0.982%
200	21.787	21.768	21.808	VV	600	11558	0.16%	0.084%
201	21.858	21.808	21.900	VV	777	25492	0.35%	0.185%

Sum of corrected areas: 13748340

Aliphatic EPH 092325.M Tue Sep 30 12:27:08 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	09/23/25	
Project:	RFP 916		Date Received:	09/23/25	
Client Sample ID:	EME-TS12-01		SDG No.:	Q3177	
Lab Sample ID:	Q3177-01		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049778.D	1	09/29/25	09/30/25	PB169879

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		6.60	J	2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16		11.6	J	4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21		128		8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36		23.8	U	23.8	80.0	ug/l
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		40.1		40 - 140	80%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		26.3		40 - 140	53%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		45.8		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:	Q3177-01	Acq On:	30 Sep 2025 09:46
Client Sample ID:	EME-TS12-01	Operator:	YP/AJ
Data file:	FD049778.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	4.384	6.128	382727	3.298	200	ug/ml
Aromatic C12-C16	6.129	8.757	787350	5.795	300	ug/ml
Aromatic C16-C21	8.758	13.048	8748383	64.435	500	ug/ml
Aromatic C21-C36	13.049	18.469	1805736	15.261	800	ug/ml
Aromatic EPH	4.384	18.469	11724196	88.789		ug/ml
ortho-Terphenyl (SURR)	11.607	11.607	6486043	45.84		ug/ml
2-Bromonaphthalene (SURR)	7.695	7.695	4511843	40.12		ug/ml
2-Flurobiphenyl (SURR)	8.558	8.558	2113363	26.33		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD093025AR\
Data File : FD049778.D
Signal(s) : FID2B.ch
Acq On : 30 Sep 2025 09:46
Operator : YP/AJ
Sample : Q3177-01
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EME-TS12-01

Integration File: autoint1.e
Quant Time: Oct 01 02:50:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
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...	7.695	4511843	40.118 ug/ml
Spiked Amount 50.000		Recovery =	80.24%
6) S 2-Flurobiphenyl (SURR)	8.558	2113363	26.328 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	52.66%
11) S ortho-Terphenyl (SURR)	11.607	6486043	45.844 ug/ml
Spiked Amount 50.000		Recovery =	91.69%
Target Compounds			

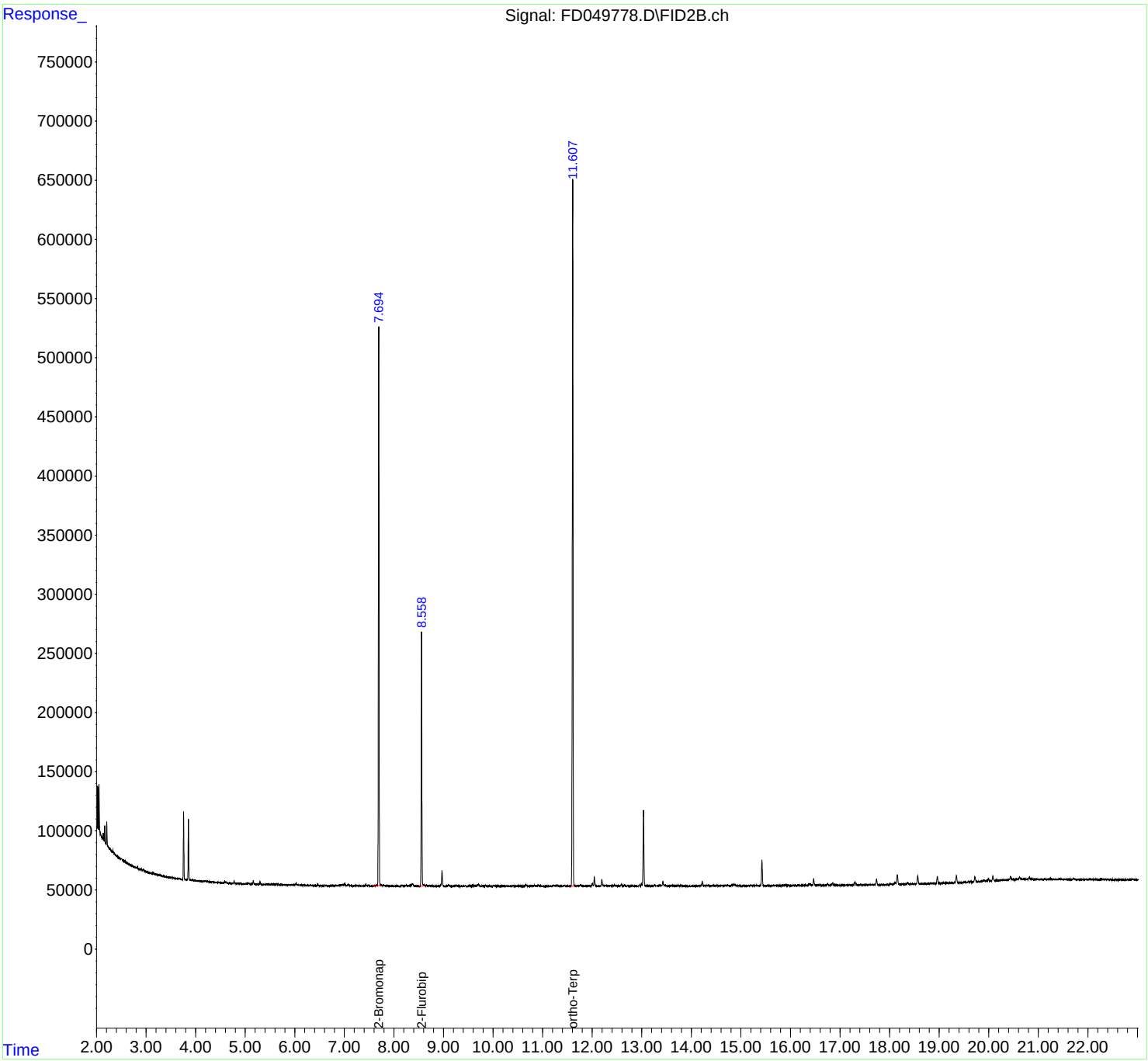
(f)=RT Delta > 1/2 Window (m)=manual int.

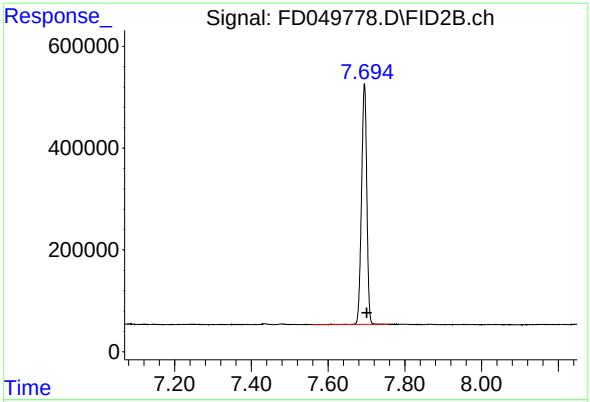
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD093025AR\
Data File : FD049778.D
Signal(s) : FID2B.ch
Acq On : 30 Sep 2025 09:46
Operator : YP/AJ
Sample : Q3177-01
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EME-TS12-01

Integration File: autoint1.e
Quant Time: Oct 01 02:50:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

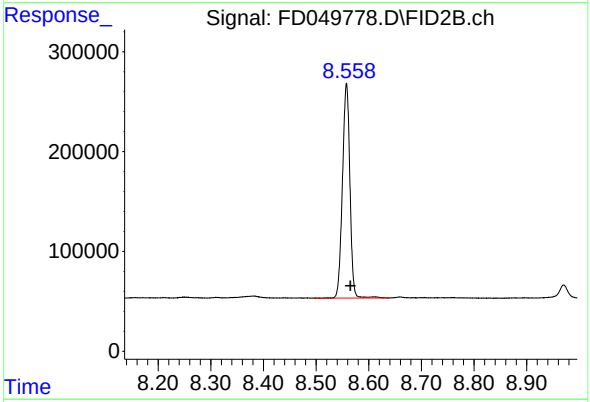




#4 2-Bromonaphthalene (SURR)

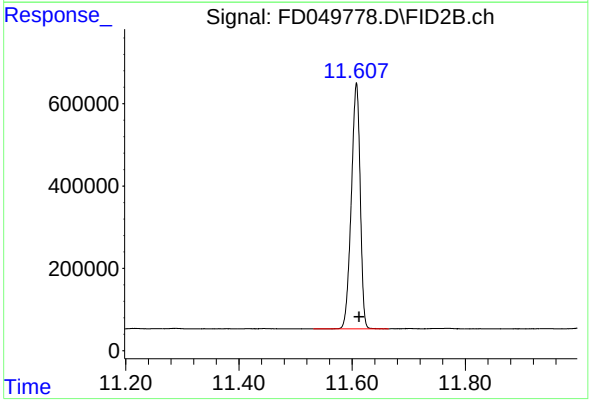
R.T.: 7.695 min
Delta R.T.: -0.006 min
Response: 4511843
Conc: 40.12 ug/ml

Instrument :
FID_D
ClientSampleId :
EME-TS12-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.558 min
Delta R.T.: -0.007 min
Response: 2113363
Conc: 26.33 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.607 min
Delta R.T.: -0.005 min
Response: 6486043
Conc: 45.84 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD093025AR\
Data File : FD049778.D
Signal(s) : FID2B.ch
Acq On : 30 Sep 2025 09:46
Sample : Q3177-01
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.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	4.338	4.321	4.385	PV	597	7487	0.12%	0.041%
2	4.401	4.385	4.425	PV	303	3057	0.05%	0.017%
3	4.445	4.425	4.469	VV	363	6119	0.09%	0.033%
4	4.476	4.469	4.490	VV	309	2804	0.04%	0.015%
5	4.517	4.507	4.532	VV	237	2138	0.03%	0.012%
6	4.546	4.532	4.554	VV	307	2549	0.04%	0.014%
7	4.588	4.554	4.605	VV	1791	21091	0.32%	0.115%
8	4.616	4.605	4.636	VV	937	11080	0.17%	0.060%
9	4.642	4.636	4.660	VV	297	3269	0.05%	0.018%
10	4.674	4.660	4.682	VV	263	2631	0.04%	0.014%
11	4.692	4.682	4.715	VV	287	3325	0.05%	0.018%
12	4.731	4.715	4.746	PV	211	2672	0.04%	0.015%
13	4.775	4.754	4.820	VV	2652	31148	0.48%	0.169%
14	4.825	4.820	4.840	PV	160	1515	0.02%	0.008%
15	4.866	4.840	4.879	VV	414	6963	0.11%	0.038%
16	4.887	4.879	4.902	VV	390	4468	0.07%	0.024%
17	4.905	4.902	4.921	VV	432	2706	0.04%	0.015%
18	4.961	4.934	4.988	PV	302	4960	0.08%	0.027%
19	4.994	4.988	5.012	VV	302	3143	0.05%	0.017%
20	5.016	5.012	5.021	VV	246	1163	0.02%	0.006%
21	5.029	5.021	5.045	VV	398	4257	0.07%	0.023%
22	5.060	5.045	5.066	VV	793	7618	0.12%	0.041%
23	5.076	5.066	5.108	VV	914	10535	0.16%	0.057%
24	5.140	5.108	5.149	PV	606	7838	0.12%	0.043%
25	5.163	5.149	5.185	VV	3315	33902	0.52%	0.184%
26	5.188	5.185	5.199	VV	441	3094	0.05%	0.017%
27	5.204	5.199	5.212	VV	304	1757	0.03%	0.010%
28	5.220	5.212	5.235	VV	263	2087	0.03%	0.011%
29	5.299	5.283	5.330	VV	2665	26835	0.41%	0.146%
30	5.335	5.330	5.355	VV	290	2054	0.03%	0.011%
31	5.369	5.355	5.390	PV	351	4389	0.07%	0.024%

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32	5.395	5.390	5.402	VV	195	1098	0.02%	0.006%
33	5.426	5.402	5.442	VV	689	10287	0.16%	0.056%
34	5.445	5.442	5.467	VV	529	5299	0.08%	0.029%
35	5.480	5.467	5.503	VV	500	8285	0.13%	0.045%
36	5.509	5.503	5.512	VV	413	1810	0.03%	0.010%
37	5.522	5.512	5.529	VV	452	4201	0.06%	0.023%
38	5.533	5.529	5.544	VV	487	3650	0.06%	0.020%
39	5.549	5.544	5.553	VV	448	1989	0.03%	0.011%
40	5.556	5.553	5.570	VV	450	3699	0.06%	0.020%
41	5.586	5.570	5.591	VV	465	4490	0.07%	0.024%
42	5.614	5.591	5.630	VV	480	8463	0.13%	0.046%
43	5.641	5.630	5.688	VV	700	15255	0.23%	0.083%
44	5.693	5.688	5.701	VV	322	1825	0.03%	0.010%
45	5.727	5.701	5.752	VV	403	8003	0.12%	0.044%
46	5.761	5.752	5.773	VV	265	2469	0.04%	0.013%
47	5.796	5.773	5.812	VV	283	5164	0.08%	0.028%
48	5.828	5.812	5.841	VV	414	5547	0.09%	0.030%
49	5.848	5.841	5.858	VV	199	1674	0.03%	0.009%
50	5.865	5.858	5.872	VV	171	1165	0.02%	0.006%
51	5.876	5.872	5.883	VV	210	1120	0.02%	0.006%
52	5.904	5.883	5.927	VV	302	6464	0.10%	0.035%
53	5.931	5.927	5.954	VV	436	4505	0.07%	0.025%
54	5.964	5.954	5.969	VV	401	2756	0.04%	0.015%
55	5.970	5.969	5.975	VV	322	1123	0.02%	0.006%
56	6.029	5.975	6.048	VV	2197	38295	0.59%	0.208%
57	6.055	6.048	6.060	VV	455	3301	0.05%	0.018%
58	6.064	6.060	6.100	VV	465	9623	0.15%	0.052%
59	6.131	6.100	6.163	VV	493	12140	0.19%	0.066%
60	6.182	6.163	6.186	VV	588	5330	0.08%	0.029%
61	6.191	6.186	6.227	VV	598	6366	0.10%	0.035%
62	6.255	6.240	6.282	VV	516	7449	0.11%	0.041%
63	6.312	6.289	6.332	VV	951	11117	0.17%	0.060%
64	6.342	6.332	6.364	VV	332	3892	0.06%	0.021%
65	6.370	6.364	6.390	VV	176	1916	0.03%	0.010%
66	6.422	6.400	6.434	VV	321	3571	0.05%	0.019%
67	6.459	6.434	6.504	VV	1481	20461	0.31%	0.111%
68	6.517	6.504	6.533	VV	410	3874	0.06%	0.021%
69	6.544	6.541	6.568	VV	150	2061	0.03%	0.011%
70	6.576	6.568	6.581	VV	268	1629	0.03%	0.009%
71	6.585	6.581	6.597	VV	292	2024	0.03%	0.011%
72	6.616	6.597	6.663	VV	658	11928	0.18%	0.065%
73	6.685	6.663	6.702	PV	362	4780	0.07%	0.026%
74	6.716	6.702	6.723	VV	364	3218	0.05%	0.018%
75	6.740	6.723	6.757	VV	527	7723	0.12%	0.042%
76	6.765	6.757	6.779	VV	457	4447	0.07%	0.024%
77	6.784	6.779	6.805	VV	334	4840	0.07%	0.026%
78	6.814	6.805	6.820	VV	503	3435	0.05%	0.019%
79	6.825	6.820	6.841	VV	531	5334	0.08%	0.029%

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80	6.845	6.841	6.850	VV	518	2351	0.04%	0.013%
81	6.861	6.850	6.865	VV	604	4547	0.07%	0.025%
82	6.887	6.865	6.911	VV	1051	23012	0.35%	0.125%
83	6.955	6.911	6.979	VV	1363	42684	0.66%	0.232%
84	7.010	6.979	7.042	VV	2400	50811	0.78%	0.276%
85	7.082	7.042	7.108	VV	1419	33209	0.51%	0.181%
86	7.127	7.108	7.137	VV	735	10033	0.15%	0.055%
87	7.146	7.137	7.177	VV	759	9373	0.14%	0.051%
88	7.189	7.177	7.201	VV	351	3310	0.05%	0.018%
89	7.220	7.201	7.226	VV	641	6380	0.10%	0.035%
90	7.239	7.226	7.295	VV	868	20005	0.31%	0.109%
91	7.300	7.295	7.314	VV	379	3268	0.05%	0.018%
92	7.323	7.314	7.336	VV	505	4406	0.07%	0.024%
93	7.348	7.336	7.357	VV	404	3456	0.05%	0.019%
94	7.383	7.357	7.400	VV	542	9705	0.15%	0.053%
95	7.409	7.400	7.415	VV	446	3095	0.05%	0.017%
96	7.435	7.415	7.459	VV	1888	22390	0.34%	0.122%
97	7.480	7.459	7.504	VV	1467	20197	0.31%	0.110%
98	7.508	7.504	7.533	VV	618	6823	0.10%	0.037%
99	7.539	7.533	7.568	VV	397	6242	0.10%	0.034%
100	7.614	7.568	7.633	VV	869	18985	0.29%	0.103%
101	7.643	7.633	7.656	VV	908	8994	0.14%	0.049%
102	7.695	7.656	7.734	VV	473361	4534426	69.66%	24.665%
103	7.742	7.734	7.770	VV	1127	20096	0.31%	0.109%
104	7.774	7.770	7.780	VV	827	4679	0.07%	0.025%
105	7.793	7.780	7.830	VV	1089	23554	0.36%	0.128%
106	7.837	7.830	7.852	VV	503	5499	0.08%	0.030%
107	7.866	7.852	7.898	VV	993	15566	0.24%	0.085%
108	7.912	7.898	7.925	VV	451	5296	0.08%	0.029%
109	7.931	7.925	7.938	VV	447	2580	0.04%	0.014%
110	7.948	7.938	7.968	VV	406	6570	0.10%	0.036%
111	7.975	7.968	8.000	VV	419	5722	0.09%	0.031%
112	8.036	8.007	8.058	VV	601	11189	0.17%	0.061%
113	8.063	8.058	8.094	VV	373	4322	0.07%	0.024%
114	8.123	8.107	8.137	PV	372	4242	0.07%	0.023%
115	8.156	8.137	8.163	VV	846	8905	0.14%	0.048%
116	8.172	8.163	8.199	VV	725	12500	0.19%	0.068%
117	8.210	8.199	8.229	VV	782	10085	0.15%	0.055%
118	8.250	8.229	8.293	VV	1249	28421	0.44%	0.155%
119	8.310	8.293	8.334	VV	1011	15914	0.24%	0.087%
120	8.381	8.334	8.424	VV	2334	67019	1.03%	0.365%
121	8.428	8.424	8.433	VV	454	2378	0.04%	0.013%
122	8.440	8.433	8.463	VV	572	8024	0.12%	0.044%
123	8.469	8.463	8.477	VV	482	3259	0.05%	0.018%
124	8.483	8.477	8.512	VV	474	5841	0.09%	0.032%
125	8.558	8.512	8.599	VV	214794	2117758	32.54%	11.520%
126	8.610	8.599	8.638	VV	1537	24952	0.38%	0.136%

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127	8.660	8.638	8.680	VV	1466	22318	0.34%	0.121%
128	8.684	8.680	8.692	VV	713	4428	0.07%	0.024%
129	8.697	8.692	8.701	VV	730	3643	0.06%	0.020%
130	8.706	8.701	8.719	VV	778	6980	0.11%	0.038%
131	8.729	8.719	8.735	VV	682	6118	0.09%	0.033%
132	8.740	8.735	8.752	VV	704	6439	0.10%	0.035%
133	8.760	8.752	8.792	VV	776	13830	0.21%	0.075%
134	8.799	8.792	8.822	VV	439	5669	0.09%	0.031%
135	8.830	8.822	8.839	VV	337	2754	0.04%	0.015%
136	8.846	8.839	8.859	VV	315	2798	0.04%	0.015%
137	8.877	8.859	8.890	VV	512	7793	0.12%	0.042%
138	8.897	8.890	8.912	VV	640	6572	0.10%	0.036%
139	8.918	8.912	8.922	VV	472	2542	0.04%	0.014%
140	8.970	8.922	9.022	VV	13417	175573	2.70%	0.955%
141	9.027	9.022	9.035	VV	292	1282	0.02%	0.007%
142	9.044	9.035	9.048	VV	262	1779	0.03%	0.010%
143	9.107	9.048	9.145	VV	1303	33075	0.51%	0.180%
144	9.164	9.145	9.171	VV	385	4593	0.07%	0.025%
145	9.178	9.171	9.185	VV	351	2440	0.04%	0.013%
146	9.256	9.185	9.282	VV	1024	29539	0.45%	0.161%
147	9.293	9.282	9.299	VV	725	5920	0.09%	0.032%
148	9.304	9.299	9.319	VV	527	5211	0.08%	0.028%
149	9.348	9.319	9.358	VV	473	8141	0.13%	0.044%
150	9.365	9.358	9.387	VV	510	5906	0.09%	0.032%
151	9.406	9.387	9.425	VV	461	8291	0.13%	0.045%
152	9.440	9.425	9.468	VV	851	12172	0.19%	0.066%
153	9.482	9.477	9.490	PV	394	1565	0.02%	0.009%
154	9.516	9.490	9.540	VV	676	13395	0.21%	0.073%
155	9.544	9.540	9.577	VV	533	9682	0.15%	0.053%
156	9.592	9.577	9.613	VV	962	14944	0.23%	0.081%
157	9.623	9.613	9.630	VV	641	5875	0.09%	0.032%
158	9.632	9.630	9.637	VV	548	1902	0.03%	0.010%
159	9.641	9.637	9.665	VV	568	6484	0.10%	0.035%
160	9.686	9.665	9.697	VV	1523	20036	0.31%	0.109%
161	9.709	9.697	9.744	VV	1707	28098	0.43%	0.153%
162	9.764	9.744	9.779	VV	566	8940	0.14%	0.049%
163	9.789	9.779	9.819	VV	536	9418	0.14%	0.051%
164	9.822	9.819	9.829	VV	328	1600	0.02%	0.009%
165	9.848	9.829	9.873	VV	973	15306	0.24%	0.083%
166	9.881	9.873	9.898	VV	505	5416	0.08%	0.029%
167	9.929	9.898	9.963	VV	623	13761	0.21%	0.075%
168	9.968	9.963	9.982	VV	258	1803	0.03%	0.010%
169	10.006	9.982	10.048	VV	940	19592	0.30%	0.107%
170	10.088	10.048	10.124	VV	552	17576	0.27%	0.096%
171	10.131	10.124	10.150	VV	336	3809	0.06%	0.021%
172	10.158	10.150	10.164	VV	222	1259	0.02%	0.007%
173	10.186	10.164	10.197	VV	950	11136	0.17%	0.061%
174	10.215	10.197	10.240	VV	586	12719	0.20%	0.069%

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175	10.244	10.240	10.260	VV	475	4560	0.07%	0.025%
176	10.269	10.260	10.299	VV	482	7890	0.12%	0.043%
177	10.320	10.299	10.347	VV	487	7806	0.12%	0.042%
178	10.367	10.347	10.382	VV	629	8720	0.13%	0.047%
179	10.404	10.382	10.454	VV	1143	22812	0.35%	0.124%
180	10.466	10.460	10.475	VV	322	2603	0.04%	0.014%
181	10.491	10.475	10.502	VV	400	5160	0.08%	0.028%
182	10.515	10.502	10.530	VV	371	4423	0.07%	0.024%
183	10.540	10.530	10.552	VV	423	4228	0.06%	0.023%
184	10.568	10.552	10.625	VV	629	13786	0.21%	0.075%
185	10.655	10.625	10.668	VV	1470	19896	0.31%	0.108%
186	10.680	10.668	10.704	VV	1133	14490	0.22%	0.079%
187	10.718	10.704	10.742	VV	458	7599	0.12%	0.041%
188	10.777	10.742	10.791	VV	543	10509	0.16%	0.057%
189	10.803	10.791	10.820	VV	539	5669	0.09%	0.031%
190	10.836	10.820	10.850	VV	1077	12337	0.19%	0.067%
191	10.865	10.850	10.890	VV	662	12171	0.19%	0.066%
192	10.903	10.890	10.937	VV	923	15801	0.24%	0.086%
193	10.958	10.937	10.978	VV	989	15197	0.23%	0.083%
194	10.985	10.978	10.990	VV	441	2802	0.04%	0.015%
195	11.005	10.990	11.030	VV	484	7875	0.12%	0.043%
196	11.043	11.030	11.050	VV	304	2628	0.04%	0.014%
197	11.055	11.050	11.062	VV	313	1801	0.03%	0.010%
198	11.089	11.062	11.109	VV	410	9497	0.15%	0.052%
199	11.114	11.109	11.130	VV	509	4314	0.07%	0.023%
200	11.138	11.130	11.178	VV	453	8034	0.12%	0.044%
201	11.217	11.178	11.242	VV	1192	23389	0.36%	0.127%
202	11.254	11.242	11.269	VV	694	9532	0.15%	0.052%
203	11.288	11.269	11.311	VV	1296	20536	0.32%	0.112%
204	11.315	11.311	11.330	VV	367	3583	0.06%	0.019%
205	11.338	11.330	11.350	VV	483	4197	0.06%	0.023%
206	11.356	11.350	11.360	VV	408	2107	0.03%	0.011%
207	11.365	11.360	11.371	VV	428	2652	0.04%	0.014%
208	11.383	11.371	11.406	VV	637	8165	0.13%	0.044%
209	11.416	11.406	11.431	VV	582	7068	0.11%	0.038%
210	11.444	11.431	11.482	VV	893	15776	0.24%	0.086%
211	11.487	11.482	11.515	VV	344	5743	0.09%	0.031%
212	11.520	11.515	11.535	VV	321	3546	0.05%	0.019%
213	11.538	11.535	11.548	VV	412	2187	0.03%	0.012%
214	11.608	11.548	11.665	VV	596787	6508963	100.00%	35.406%
215	11.671	11.665	11.676	VV	559	3090	0.05%	0.017%
216	11.701	11.676	11.724	VV	1025	17258	0.27%	0.094%
217	11.748	11.724	11.754	VV	1071	13056	0.20%	0.071%
218	11.768	11.754	11.799	VV	1458	22784	0.35%	0.124%
219	11.813	11.799	11.819	VV	412	4298	0.07%	0.023%
220	11.827	11.819	11.836	VV	500	4026	0.06%	0.022%
221	11.840	11.836	11.856	VV	378	3413	0.05%	0.019%

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222	11.863	11.856	11.874	VV	400	3189	0.05%	0.017%
223	11.888	11.874	11.901	VV	463	5784	0.09%	0.031%
224	11.920	11.901	11.925	VV	432	4959	0.08%	0.027%
225	11.950	11.925	11.964	VV	690	11745	0.18%	0.064%
226	12.004	11.964	12.022	VV	2578	36988	0.57%	0.201%
227	12.043	12.022	12.072	VV	7970	94303	1.45%	0.513%
228	12.076	12.072	12.099	VV	686	7966	0.12%	0.043%
229	12.112	12.099	12.137	VV	518	8218	0.13%	0.045%
230	12.149	12.137	12.159	VV	365	3468	0.05%	0.019%
231	12.194	12.159	12.252	VV	5958	90510	1.39%	0.492%
232	12.287	12.252	12.309	VV	818	19152	0.29%	0.104%
233	12.311	12.309	12.316	VV	508	2155	0.03%	0.012%
234	12.328	12.316	12.355	VV	545	11515	0.18%	0.063%
235	12.363	12.355	12.371	VV	506	4122	0.06%	0.022%
236	12.378	12.371	12.390	VV	477	5264	0.08%	0.029%
237	12.403	12.390	12.418	VV	573	7295	0.11%	0.040%
238	12.449	12.418	12.477	VV	1523	28823	0.44%	0.157%
239	12.487	12.477	12.500	VV	562	6628	0.10%	0.036%
240	12.505	12.500	12.517	VV	638	4834	0.07%	0.026%
241	12.532	12.517	12.555	VV	1067	14969	0.23%	0.081%
242	12.558	12.555	12.565	VV	430	1954	0.03%	0.011%
243	12.593	12.565	12.617	VV	1639	25520	0.39%	0.139%
244	12.622	12.617	12.634	VV	511	4654	0.07%	0.025%
245	12.653	12.634	12.677	VV	1482	21280	0.33%	0.116%
246	12.682	12.677	12.698	VV	516	3894	0.06%	0.021%
247	12.723	12.698	12.728	VV	512	7036	0.11%	0.038%
248	12.730	12.728	12.740	VV	458	2595	0.04%	0.014%
249	12.747	12.740	12.758	VV	333	2730	0.04%	0.015%
250	12.765	12.758	12.770	VV	327	1859	0.03%	0.010%
251	12.814	12.770	12.837	VV	644	13949	0.21%	0.076%
252	12.868	12.850	12.890	PV	665	9379	0.14%	0.051%
253	12.906	12.890	12.915	VV	336	4098	0.06%	0.022%
254	12.926	12.915	12.930	VV	399	2667	0.04%	0.015%
255	12.947	12.930	12.970	VV	1195	16825	0.26%	0.092%
256	12.991	12.970	13.007	VV	1900	25534	0.39%	0.139%
257	13.036	13.007	13.068	VV	64414	754349	11.59%	4.103%
258	13.074	13.068	13.080	VV	501	3473	0.05%	0.019%
259	13.087	13.080	13.094	VV	599	4130	0.06%	0.022%
260	13.097	13.094	13.107	VV	660	4403	0.07%	0.024%
261	13.111	13.107	13.123	VV	563	4093	0.06%	0.022%
262	13.134	13.123	13.138	VV	492	3926	0.06%	0.021%
263	13.143	13.138	13.177	VV	539	9249	0.14%	0.050%
264	13.210	13.177	13.236	VV	437	12145	0.19%	0.066%
265	13.257	13.236	13.285	VV	1478	22411	0.34%	0.122%
266	13.312	13.285	13.349	VV	667	19312	0.30%	0.105%
267	13.380	13.349	13.395	VV	840	15141	0.23%	0.082%
268	13.427	13.395	13.520	VV	4245	83508	1.28%	0.454%
269	13.528	13.520	13.542	VV	420	4985	0.08%	0.027%

270	13.547	13.542	13.557	VV	394	3128	0.05%	0.017%
271	13.604	13.557	13.631	VV	809	23618	0.36%	0.128%
272	13.643	13.631	13.652	VV	697	6383	0.10%	0.035%
273	13.659	13.652	13.680	VV	687	8059	0.12%	0.044%
274	13.690	13.680	13.715	VV	510	8273	0.13%	0.045%
275	13.734	13.715	13.765	VV	1005	18462	0.28%	0.100%
276	13.785	13.765	13.834	VV	1066	21385	0.33%	0.116%
277	13.859	13.834	13.885	VV	363	7771	0.12%	0.042%
278	13.896	13.885	13.930	VV	348	5243	0.08%	0.029%
279	13.943	13.930	13.957	PV	218	1551	0.02%	0.008%
280	13.967	13.957	14.001	VV	263	4884	0.08%	0.027%
281	14.019	14.001	14.049	VV	493	7968	0.12%	0.043%
282	14.084	14.049	14.114	VV	446	10850	0.17%	0.059%
283	14.148	14.114	14.187	VV	599	15133	0.23%	0.082%
284	14.221	14.187	14.257	VV	3979	56954	0.88%	0.310%
285	14.265	14.257	14.279	VV	382	4340	0.07%	0.024%
286	14.311	14.279	14.329	VV	553	9773	0.15%	0.053%
287	14.346	14.329	14.370	VV	795	11178	0.17%	0.061%
288	14.419	14.370	14.442	VV	556	17197	0.26%	0.094%
289	14.450	14.442	14.468	VV	539	7419	0.11%	0.040%
290	14.476	14.468	14.490	VV	479	5064	0.08%	0.028%
291	14.514	14.490	14.546	VV	718	15637	0.24%	0.085%
292	14.556	14.546	14.567	VV	441	4565	0.07%	0.025%
293	14.573	14.567	14.589	VV	425	4791	0.07%	0.026%
294	14.602	14.589	14.624	VV	461	7720	0.12%	0.042%
295	14.633	14.624	14.644	VV	387	4066	0.06%	0.022%
296	14.663	14.644	14.682	VV	481	8540	0.13%	0.046%
297	14.728	14.682	14.791	VV	1135	28898	0.44%	0.157%
298	14.821	14.791	14.839	VV	1335	22641	0.35%	0.123%
299	14.860	14.839	14.878	VV	1701	28333	0.44%	0.154%
300	14.886	14.878	14.934	VV	1092	18362	0.28%	0.100%
301	14.960	14.934	14.975	VV	415	7916	0.12%	0.043%
302	14.983	14.975	15.025	VV	428	5655	0.09%	0.031%
303	15.057	15.025	15.079	PV	333	6477	0.10%	0.035%
304	15.094	15.079	15.125	VV	320	6041	0.09%	0.033%
305	15.190	15.125	15.247	VV	523	21686	0.33%	0.118%
306	15.261	15.247	15.276	VV	440	5430	0.08%	0.030%
307	15.312	15.276	15.335	VV	533	11715	0.18%	0.064%
308	15.349	15.335	15.387	VV	368	7213	0.11%	0.039%
309	15.424	15.387	15.506	VV	21840	285679	4.39%	1.554%
310	15.513	15.506	15.567	VV	222	5484	0.08%	0.030%
311	15.583	15.567	15.602	VV	343	4492	0.07%	0.024%
312	15.636	15.602	15.657	VV	407	6757	0.10%	0.037%
313	15.664	15.657	15.673	VV	347	2581	0.04%	0.014%
314	15.705	15.673	15.720	VV	362	7534	0.12%	0.041%
315	15.727	15.720	15.785	VV	217	7910	0.12%	0.043%
316	15.792	15.785	15.814	VV	313	3366	0.05%	0.018%

317	15.847	15.814	15.880	PV	474	13834	0.21%	0.075%
318	15.907	15.880	15.944	VV	1025	19413	0.30%	0.106%
319	15.957	15.944	15.965	VV	374	3067	0.05%	0.017%
320	15.978	15.965	15.997	VV	400	4172	0.06%	0.023%
321	16.062	15.997	16.073	VV	499	11303	0.17%	0.061%
322	16.094	16.073	16.120	VV	375	5094	0.08%	0.028%
323	16.139	16.120	16.150	VV	284	2744	0.04%	0.015%
324	16.169	16.150	16.209	VV	347	8420	0.13%	0.046%
325	16.233	16.209	16.250	VV	426	8398	0.13%	0.046%
326	16.261	16.250	16.310	VV	495	10432	0.16%	0.057%
327	16.326	16.310	16.349	VV	302	5794	0.09%	0.032%
328	16.395	16.349	16.440	VV	1548	52680	0.81%	0.287%
329	16.468	16.440	16.515	VV	5809	84087	1.29%	0.457%
330	16.529	16.515	16.547	VV	461	7438	0.11%	0.040%
331	16.558	16.547	16.573	VV	574	6657	0.10%	0.036%
332	16.591	16.573	16.599	VV	369	5277	0.08%	0.029%
333	16.606	16.599	16.615	VV	367	3047	0.05%	0.017%
334	16.636	16.615	16.658	VV	395	7947	0.12%	0.043%
335	16.667	16.658	16.709	VV	420	8969	0.14%	0.049%
336	16.750	16.709	16.803	VV	1462	32189	0.49%	0.175%
337	16.852	16.803	16.881	VV	2116	42659	0.66%	0.232%
338	16.903	16.881	16.950	VV	677	16663	0.26%	0.091%
339	16.972	16.950	16.983	VV	263	4148	0.06%	0.023%
340	16.996	16.983	17.010	VV	349	3180	0.05%	0.017%
341	17.057	17.010	17.066	PV	248	4249	0.07%	0.023%
342	17.079	17.066	17.102	VV	238	2965	0.05%	0.016%
343	17.139	17.102	17.172	VV	342	9791	0.15%	0.053%
344	17.200	17.172	17.214	VV	427	6240	0.10%	0.034%
345	17.252	17.214	17.270	VV	488	10091	0.16%	0.055%
346	17.301	17.270	17.362	VV	2882	53160	0.82%	0.289%
347	17.371	17.362	17.387	VV	175	2704	0.04%	0.015%
348	17.405	17.387	17.437	VV	490	7880	0.12%	0.043%
349	17.448	17.437	17.464	VV	324	2949	0.05%	0.016%
350	17.502	17.464	17.511	VV	329	6533	0.10%	0.036%
351	17.532	17.511	17.544	VV	344	5106	0.08%	0.028%
352	17.551	17.544	17.560	VV	328	2653	0.04%	0.014%
353	17.592	17.560	17.625	VV	416	11459	0.18%	0.062%
354	17.638	17.625	17.650	VV	380	3907	0.06%	0.021%
355	17.660	17.650	17.692	VV	251	5746	0.09%	0.031%
356	17.737	17.692	17.767	VV	4955	72697	1.12%	0.395%
357	17.776	17.767	17.792	VV	377	2856	0.04%	0.016%
358	17.811	17.792	17.821	PV	365	3008	0.05%	0.016%
359	17.845	17.821	17.865	VV	316	4784	0.07%	0.026%
360	17.879	17.865	17.886	VV	341	2485	0.04%	0.014%
361	17.899	17.886	17.918	VV	398	4089	0.06%	0.022%
362	17.961	17.918	17.980	VV	206	5397	0.08%	0.029%
363	18.019	17.980	18.041	VV	538	11882	0.18%	0.065%
364	18.052	18.041	18.072	VV	304	4102	0.06%	0.022%

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365	18.110	18.072	18.129	VV	2120	35336	0.54%	0.192%
366	18.156	18.129	18.210	VV	8077	129748	1.99%	0.706%
367	18.222	18.210	18.232	VV	194	2049	0.03%	0.011%
368	18.270	18.232	18.292	VV	352	7255	0.11%	0.039%
369	18.319	18.292	18.326	PV	362	2860	0.04%	0.016%
370	18.362	18.326	18.410	VV	1680	28020	0.43%	0.152%
371	18.425	18.410	18.459	VV	314	3282	0.05%	0.018%
372	18.467	18.459	18.482	PV	186	1943	0.03%	0.011%

Sum of corrected areas: 18383867

Aromatic EPH 090425.M Wed Oct 01 03:56:22 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS13-01	SDG No.:	Q3177
Lab Sample ID:	Q3177-02	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
09/29/25 08:30	09/30/25 9:46	PB169879

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.91	J	1	8.28	30.0	ug/l	FC069875.D
Aliphatic C12-C16	Aliphatic C12-C16	8.13	J	1	13.5	20.0	ug/l	FC069875.D
Aliphatic C16-C21	Aliphatic C16-C21	6.16	J	1	8.34	30.0	ug/l	FC069875.D
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	1	12.5	40.0	ug/l	FC069875.D
Aliphatic C28-C40	Aliphatic C28-C40	292		1	23.8	60.0	ug/l	FC069875.D
Aromatic C10-C12	Aromatic C10-C12	2.07	U	1	2.07	20.0	ug/l	FF016474.D
Aromatic C12-C16	Aromatic C12-C16	92.7		1	4.26	30.0	ug/l	FF016474.D
Aromatic C16-C21	Aromatic C16-C21	24.4	J	1	8.27	50.0	ug/l	FF016474.D
Aromatic C21-C36	Aromatic C21-C36	23.8	U	1	23.8	80.0	ug/l	FF016474.D
Total AliphaticEPH	Total AliphaticEPH	312			66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	117	J		38.4	180	ug/l	
Total EPH	Total EPH	429			105	360	ug/l	

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:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS13-01	SDG No.:	Q3177
Lab Sample ID:	Q3177-02	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069875.D	1	09/29/25	09/30/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.91	J	8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	8.13	J	13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	6.16	J	8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	292		23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	48.5		40 - 140	97%	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:	Q3177-02	Acq On:	30 Sep 2025 09:46
Client Sample ID:	EME-TS13-01	Operator:	YP/AJ
Data file:	FC069875.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	3.284	6.578	394351	2.953	300	ug/ml
Aliphatic C12-C16	6.579	9.980	636865	4.065	200	ug/ml
Aliphatic C16-C21	9.981	13.346	553380	3.082	300	ug/ml
Aliphatic C21-C28	13.347	17.008	634733	3.508	400	ug/ml
Aliphatic C28-C40	17.009	21.963	18806631	146.154	600	ug/ml
Aliphatic EPH	3.284	21.963	21025960	159.762		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.084	13.084	7665042	48.54		ug/ml
Aliphatic C9-C28	3.284	17.008	2219329	13.608	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100125AL\
Data File : FC069875.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 09:46
Operator : YP/AJ
Sample : Q3177-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EME-TS13-01

Integration File: autoint1.e
Quant Time: Sep 30 12:18:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.084	7665042	48.538 ug/ml
Spiked Amount 50.000		Recovery = 97.08%	
Target Compounds			

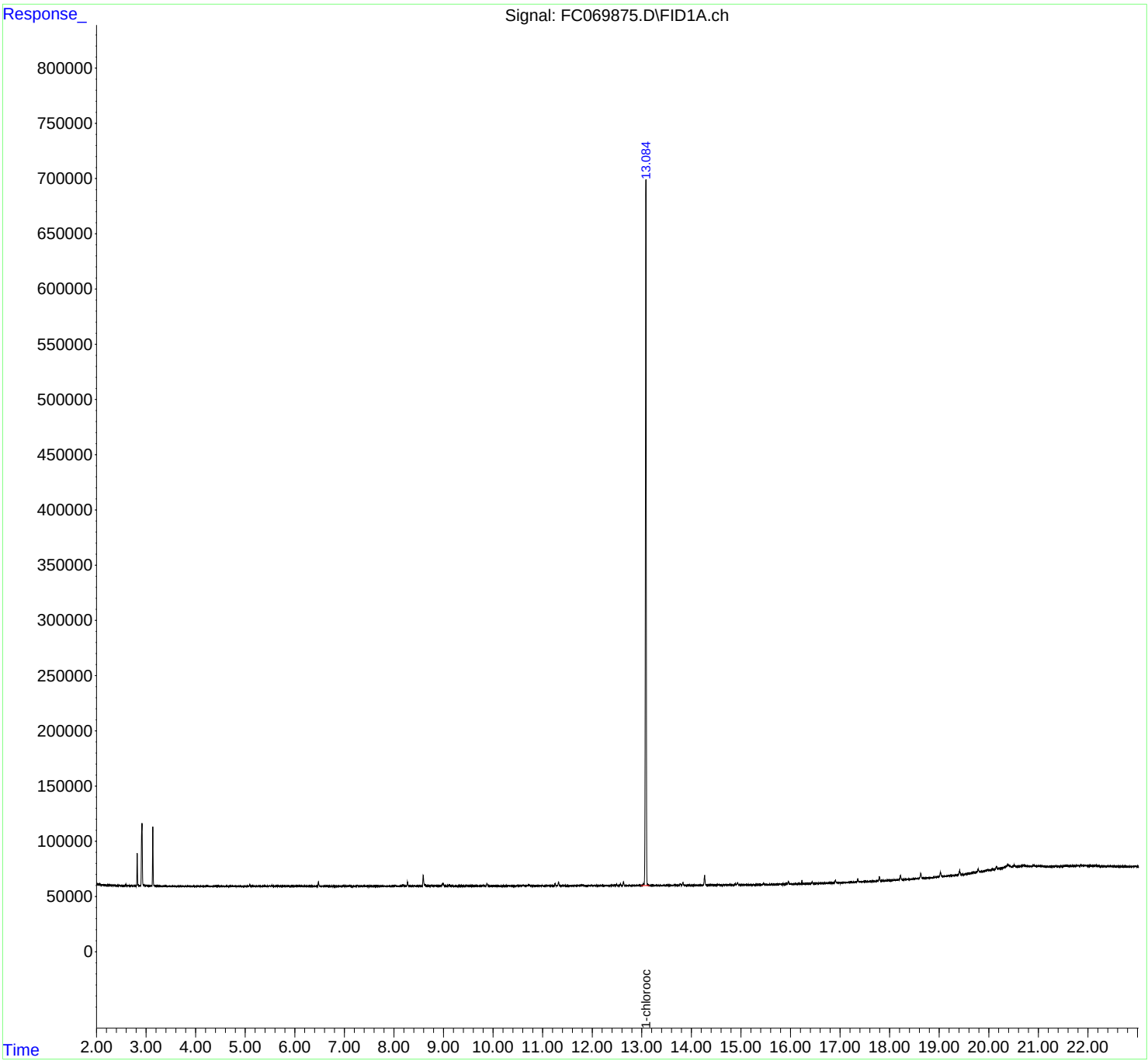
(f)=RT Delta > 1/2 Window (m)=manual int.

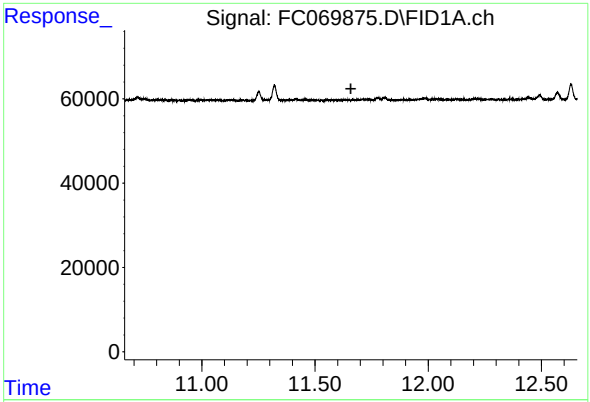
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100125AL\
Data File : FC069875.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 09:46
Operator : YP/AJ
Sample : Q3177-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EME-TS13-01

Integration File: autoint1.e
Quant Time: Sep 30 12:18:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

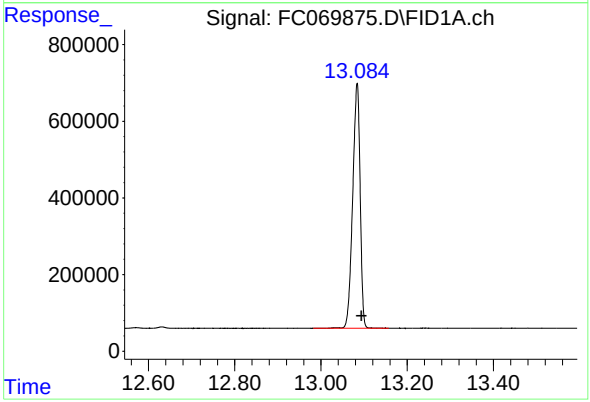




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.658 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EME-TS13-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.084 min
Delta R.T.: -0.010 min
Response: 7665042
Conc: 48.54 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100125AL\
Data File : FC069875.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 09:46
Sample : Q3177-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.324	3.305	3.354	PV	142	2112	0.03%	0.007%
2	3.361	3.354	3.372	VV	97	551	0.01%	0.002%
3	3.387	3.372	3.418	VV	173	1964	0.03%	0.007%
4	3.433	3.418	3.458	VV	81	625	0.01%	0.002%
5	3.486	3.458	3.515	PV	267	3034	0.04%	0.011%
6	3.543	3.515	3.647	PV	105	5311	0.07%	0.019%
7	3.658	3.647	3.675	VV	136	1244	0.02%	0.004%
8	3.698	3.675	3.722	VV	178	2765	0.04%	0.010%
9	3.734	3.722	3.755	VV	106	1652	0.02%	0.006%
10	3.760	3.755	3.772	VV	93	637	0.01%	0.002%
11	3.782	3.772	3.791	PV	82	444	0.01%	0.002%
12	3.798	3.791	3.815	VV	124	975	0.01%	0.003%
13	3.822	3.815	3.838	VV	125	616	0.01%	0.002%
14	3.851	3.838	3.867	VV	124	1595	0.02%	0.006%
15	3.883	3.867	3.938	VV	303	6208	0.08%	0.022%
16	3.941	3.938	3.949	VV	156	652	0.01%	0.002%
17	3.964	3.949	4.008	VV	230	3945	0.05%	0.014%
18	4.060	4.008	4.071	VV	371	5750	0.08%	0.020%
19	4.083	4.071	4.136	VV	410	6423	0.08%	0.022%
20	4.152	4.136	4.176	VV	270	3624	0.05%	0.013%
21	4.223	4.176	4.278	PV	446	11691	0.15%	0.041%
22	4.295	4.278	4.307	VV	129	1624	0.02%	0.006%
23	4.341	4.307	4.360	VV	126	2994	0.04%	0.010%
24	4.385	4.360	4.422	VV	464	7580	0.10%	0.026%
25	4.456	4.422	4.487	VV	890	12037	0.16%	0.042%
26	4.503	4.487	4.538	VV	324	5200	0.07%	0.018%
27	4.561	4.538	4.587	VV	292	6166	0.08%	0.021%
28	4.623	4.587	4.648	VV	439	10655	0.14%	0.037%
29	4.679	4.648	4.695	VV	362	6490	0.08%	0.023%
30	4.711	4.695	4.731	VV	595	6621	0.09%	0.023%
31	4.741	4.731	4.784	VV	285	6007	0.08%	0.021%

32	4.839	4.784	4.856	VV	282	8705	0.11%	0.030%
33	4.865	4.856	4.890	VV	155	2665	0.03%	0.009%
34	4.904	4.890	4.930	VV	193	3282	0.04%	0.011%
35	4.944	4.930	4.971	VV	147	1919	0.03%	0.007%
36	5.014	4.971	5.030	VV	230	4306	0.06%	0.015%
37	5.043	5.030	5.055	VV	258	2978	0.04%	0.010%
38	5.063	5.055	5.073	VV	250	2912	0.04%	0.010%
39	5.091	5.073	5.127	VV	1323	16280	0.21%	0.057%
40	5.148	5.127	5.163	VV	507	6511	0.08%	0.023%
41	5.175	5.163	5.186	VV	238	3113	0.04%	0.011%
42	5.205	5.186	5.224	VV	235	4259	0.06%	0.015%
43	5.263	5.224	5.353	VV	328	16564	0.22%	0.058%
44	5.388	5.353	5.431	VV	383	12234	0.16%	0.043%
45	5.464	5.431	5.478	VV	329	6273	0.08%	0.022%
46	5.496	5.478	5.517	VV	754	10052	0.13%	0.035%
47	5.535	5.517	5.566	VV	793	10520	0.14%	0.037%
48	5.593	5.566	5.607	VV	292	4676	0.06%	0.016%
49	5.638	5.607	5.665	VV	392	9494	0.12%	0.033%
50	5.678	5.665	5.728	VV	371	8078	0.11%	0.028%
51	5.786	5.728	5.812	VV	297	8698	0.11%	0.030%
52	5.838	5.812	5.861	VV	230	5039	0.07%	0.018%
53	5.871	5.861	5.881	VV	214	2002	0.03%	0.007%
54	5.903	5.881	5.925	VV	207	3979	0.05%	0.014%
55	5.933	5.925	5.969	VV	182	3310	0.04%	0.012%
56	6.000	5.969	6.025	VV	283	6193	0.08%	0.022%
57	6.053	6.025	6.081	VV	494	10085	0.13%	0.035%
58	6.094	6.081	6.118	VV	409	5780	0.08%	0.020%
59	6.135	6.118	6.166	VV	489	8020	0.10%	0.028%
60	6.198	6.166	6.241	VV	532	11236	0.15%	0.039%
61	6.248	6.241	6.309	VV	210	6153	0.08%	0.021%
62	6.339	6.309	6.404	VV	180	7386	0.10%	0.026%
63	6.414	6.404	6.438	VV	160	2168	0.03%	0.008%
64	6.477	6.438	6.548	VV	4328	48979	0.64%	0.171%
65	6.561	6.548	6.588	VV	203	3310	0.04%	0.012%
66	6.598	6.588	6.610	VV	185	1734	0.02%	0.006%
67	6.628	6.610	6.648	VV	446	5419	0.07%	0.019%
68	6.665	6.648	6.680	VV	202	2449	0.03%	0.009%
69	6.699	6.680	6.723	VV	342	4412	0.06%	0.015%
70	6.761	6.723	6.788	PV	125	2205	0.03%	0.008%
71	6.798	6.788	6.824	VV	89	1638	0.02%	0.006%
72	6.875	6.824	6.908	PV	223	4464	0.06%	0.016%
73	6.921	6.908	6.938	VV	249	2872	0.04%	0.010%
74	6.972	6.938	7.006	VV	349	8279	0.11%	0.029%
75	7.035	7.006	7.064	VV	327	7315	0.10%	0.026%
76	7.099	7.064	7.125	VV	441	8646	0.11%	0.030%
77	7.137	7.125	7.194	VV	176	4290	0.06%	0.015%
78	7.209	7.194	7.219	VV	170	1886	0.02%	0.007%
79	7.262	7.219	7.296	VV	1056	14725	0.19%	0.051%

80	7.340	7.296	7.357	VV	201	4811	0.06%	0.017%
81	7.370	7.357	7.380	VV	270	2534	0.03%	0.009%
82	7.401	7.380	7.422	VV	484	7091	0.09%	0.025%
83	7.439	7.422	7.450	VV	164	2246	0.03%	0.008%
84	7.466	7.450	7.479	VV	260	3611	0.05%	0.013%
85	7.488	7.479	7.539	VV	377	4850	0.06%	0.017%
86	7.549	7.539	7.605	VV	156	3213	0.04%	0.011%
87	7.618	7.605	7.645	VV	72	1362	0.02%	0.005%
88	7.665	7.645	7.698	VV	447	5380	0.07%	0.019%
89	7.761	7.698	7.776	VV	216	5940	0.08%	0.021%
90	7.821	7.776	7.839	VV	241	5917	0.08%	0.021%
91	7.847	7.839	7.875	VV	142	2630	0.03%	0.009%
92	7.883	7.875	7.908	VV	192	2081	0.03%	0.007%
93	7.931	7.908	7.958	VV	188	3157	0.04%	0.011%
94	7.971	7.958	8.005	VV	347	4662	0.06%	0.016%
95	8.026	8.005	8.049	VV	718	9110	0.12%	0.032%
96	8.064	8.049	8.080	VV	220	3102	0.04%	0.011%
97	8.091	8.080	8.106	VV	244	2645	0.03%	0.009%
98	8.182	8.106	8.249	VV	799	27521	0.36%	0.096%
99	8.275	8.249	8.347	VV	3665	47396	0.62%	0.165%
100	8.384	8.347	8.412	VV	317	8117	0.11%	0.028%
101	8.422	8.412	8.442	VV	226	2871	0.04%	0.010%
102	8.473	8.442	8.490	VV	199	3308	0.04%	0.012%
103	8.511	8.490	8.555	VV	245	4895	0.06%	0.017%
104	8.591	8.555	8.711	VV	9890	156232	2.04%	0.545%
105	8.767	8.711	8.781	VV	435	14815	0.19%	0.052%
106	8.785	8.781	8.797	VV	316	2647	0.03%	0.009%
107	8.813	8.797	8.857	VV	429	10727	0.14%	0.037%
108	8.878	8.857	8.907	VV	319	6413	0.08%	0.022%
109	8.995	8.907	9.021	VV	2643	61837	0.81%	0.216%
110	9.035	9.021	9.048	VV	456	6178	0.08%	0.022%
111	9.056	9.048	9.074	VV	321	4530	0.06%	0.016%
112	9.116	9.074	9.168	VV	885	20917	0.27%	0.073%
113	9.187	9.168	9.223	VV	295	5507	0.07%	0.019%
114	9.241	9.223	9.251	VV	237	2718	0.04%	0.009%
115	9.259	9.251	9.270	VV	204	1636	0.02%	0.006%
116	9.284	9.270	9.304	VV	245	2984	0.04%	0.010%
117	9.333	9.304	9.348	VV	249	5143	0.07%	0.018%
118	9.356	9.348	9.368	VV	185	2112	0.03%	0.007%
119	9.395	9.368	9.416	VV	397	7020	0.09%	0.024%
120	9.465	9.416	9.501	VV	434	11135	0.15%	0.039%
121	9.520	9.501	9.576	VV	237	6653	0.09%	0.023%
122	9.606	9.576	9.634	VV	315	6506	0.08%	0.023%
123	9.655	9.634	9.684	VV	640	9025	0.12%	0.031%
124	9.706	9.684	9.736	VV	207	4251	0.06%	0.015%
125	9.744	9.736	9.777	VV	179	3315	0.04%	0.012%
126	9.797	9.777	9.851	VV	726	11446	0.15%	0.040%

127	9.878	9.851	9.941	VV	2485	34334	0.45%	0.120%
128	9.982	9.941	10.008	VV	221	6403	0.08%	0.022%
129	10.054	10.008	10.075	VV	196	4268	0.06%	0.015%
130	10.118	10.075	10.180	VV	204	5608	0.07%	0.020%
131	10.196	10.180	10.229	VV	235	3773	0.05%	0.013%
132	10.273	10.229	10.288	PV	274	5859	0.08%	0.020%
133	10.310	10.288	10.341	VV	319	6899	0.09%	0.024%
134	10.367	10.341	10.388	VV	234	4917	0.06%	0.017%
135	10.431	10.388	10.465	VV	197	5258	0.07%	0.018%
136	10.481	10.465	10.490	VV	366	3635	0.05%	0.013%
137	10.499	10.490	10.537	VV	344	8203	0.11%	0.029%
138	10.554	10.537	10.598	VV	319	10670	0.14%	0.037%
139	10.618	10.598	10.651	VV	535	10083	0.13%	0.035%
140	10.716	10.651	10.735	VV	888	20780	0.27%	0.072%
141	10.745	10.735	10.768	VV	579	8206	0.11%	0.029%
142	10.804	10.784	10.815	VV	344	4577	0.06%	0.016%
143	10.823	10.815	10.854	VV	281	5298	0.07%	0.018%
144	10.875	10.854	10.888	VV	196	2869	0.04%	0.010%
145	10.901	10.888	10.925	VV	224	2726	0.04%	0.010%
146	10.943	10.925	10.971	VV	213	4420	0.06%	0.015%
147	10.993	10.971	11.007	VV	280	3792	0.05%	0.013%
148	11.041	11.007	11.058	VV	271	5874	0.08%	0.020%
149	11.072	11.058	11.095	VV	235	3618	0.05%	0.013%
150	11.126	11.095	11.161	VV	284	5837	0.08%	0.020%
151	11.172	11.161	11.225	VV	234	3418	0.04%	0.012%
152	11.252	11.225	11.294	VV	2241	30014	0.39%	0.105%
153	11.321	11.294	11.373	VV	3765	48222	0.63%	0.168%
154	11.415	11.373	11.438	VV	395	9087	0.12%	0.032%
155	11.458	11.438	11.491	VV	273	5686	0.07%	0.020%
156	11.503	11.491	11.536	VV	211	3039	0.04%	0.011%
157	11.551	11.536	11.621	VV	198	6735	0.09%	0.023%
158	11.638	11.621	11.658	PV	225	3519	0.05%	0.012%
159	11.669	11.658	11.695	VV	240	4022	0.05%	0.014%
160	11.713	11.695	11.758	VV	326	9733	0.13%	0.034%
161	11.777	11.758	11.795	VV	643	9318	0.12%	0.032%
162	11.807	11.795	11.865	VV	714	12769	0.17%	0.045%
163	11.890	11.865	11.902	VV	223	3441	0.04%	0.012%
164	11.918	11.902	11.931	VV	230	2950	0.04%	0.010%
165	11.984	11.931	12.021	VV	536	16601	0.22%	0.058%
166	12.038	12.021	12.113	VV	353	12817	0.17%	0.045%
167	12.130	12.113	12.171	VV	273	7081	0.09%	0.025%
168	12.209	12.171	12.245	VV	436	11686	0.15%	0.041%
169	12.281	12.245	12.305	VV	276	7170	0.09%	0.025%
170	12.313	12.305	12.345	VV	243	3864	0.05%	0.013%
171	12.361	12.345	12.383	VV	265	4397	0.06%	0.015%
172	12.442	12.383	12.467	VV	673	16795	0.22%	0.059%
173	12.492	12.467	12.518	VV	1211	17950	0.23%	0.063%
174	12.571	12.518	12.605	VV	1858	28254	0.37%	0.098%

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175	12.631	12.605	12.728	VV	3811	54017	0.71%	0.188%
176	12.745	12.728	12.798	VV	412	8476	0.11%	0.030%
177	12.806	12.798	12.827	VV	138	1536	0.02%	0.005%
178	12.902	12.827	12.912	VV	242	7191	0.09%	0.025%
179	12.918	12.912	12.945	VV	182	3076	0.04%	0.011%
180	12.965	12.945	12.978	VV	216	3493	0.05%	0.012%
181	13.036	12.978	13.048	VV	1640	26691	0.35%	0.093%
182	13.084	13.048	13.170	VV	646135	7660980	100.00%	26.705%
183	13.187	13.170	13.209	VV	303	5416	0.07%	0.019%
184	13.241	13.209	13.274	VV	442	11307	0.15%	0.039%
185	13.294	13.274	13.348	VV	297	10036	0.13%	0.035%
186	13.430	13.348	13.468	VV	332	17337	0.23%	0.060%
187	13.476	13.468	13.489	VV	297	2860	0.04%	0.010%
188	13.509	13.489	13.567	VV	265	9629	0.13%	0.034%
189	13.591	13.567	13.610	VV	193	3814	0.05%	0.013%
190	13.653	13.610	13.671	VV	585	11052	0.14%	0.039%
191	13.687	13.671	13.731	VV	363	8282	0.11%	0.029%
192	13.742	13.731	13.750	VV	247	2222	0.03%	0.008%
193	13.779	13.750	13.802	VV	1692	24157	0.32%	0.084%
194	13.830	13.802	13.879	VV	2881	40349	0.53%	0.141%
195	13.891	13.879	13.938	VV	172	3667	0.05%	0.013%
196	13.972	13.938	14.003	PV	171	3153	0.04%	0.011%
197	14.051	14.003	14.074	VV	186	4334	0.06%	0.015%
198	14.088	14.074	14.154	VV	177	5622	0.07%	0.020%
199	14.178	14.154	14.189	VV	186	2712	0.04%	0.009%
200	14.267	14.189	14.341	VV	8956	125019	1.63%	0.436%
201	14.351	14.341	14.368	VV	196	1967	0.03%	0.007%
202	14.393	14.368	14.430	VV	564	9463	0.12%	0.033%
203	14.458	14.430	14.500	VV	251	6884	0.09%	0.024%
204	14.525	14.500	14.535	VV	238	3415	0.04%	0.012%
205	14.558	14.535	14.579	VV	251	4316	0.06%	0.015%
206	14.596	14.579	14.630	VV	143	3400	0.04%	0.012%
207	14.640	14.630	14.655	VV	91	1068	0.01%	0.004%
208	14.719	14.655	14.729	VV	172	5548	0.07%	0.019%
209	14.741	14.729	14.751	VV	195	1701	0.02%	0.006%
210	14.773	14.751	14.840	VV	373	7614	0.10%	0.027%
211	14.889	14.840	14.909	PV	1185	17354	0.23%	0.060%
212	14.933	14.909	14.975	VV	2277	32769	0.43%	0.114%
213	14.986	14.975	15.015	VV	160	2547	0.03%	0.009%
214	15.024	15.015	15.085	VV	82	1623	0.02%	0.006%
215	15.102	15.085	15.131	VV	160	3084	0.04%	0.011%
216	15.143	15.131	15.158	VV	135	1446	0.02%	0.005%
217	15.179	15.158	15.225	VV	150	2426	0.03%	0.008%
218	15.242	15.225	15.292	PV	94	1671	0.02%	0.006%
219	15.350	15.292	15.399	VV	214	7871	0.10%	0.027%
220	15.408	15.399	15.425	PV	105	1237	0.02%	0.004%
221	15.455	15.425	15.498	VV	985	16191	0.21%	0.056%

222	15.507	15.498	15.551	VV	198	2788	0.04%	0.010%
223	15.636	15.551	15.650	VV	183	3573	0.05%	0.012%
224	15.661	15.650	15.669	VV	110	987	0.01%	0.003%
225	15.681	15.669	15.700	VV	139	2011	0.03%	0.007%
226	15.720	15.700	15.744	VV	101	2829	0.04%	0.010%
227	15.774	15.744	15.790	VV	204	3807	0.05%	0.013%
228	15.806	15.790	15.852	VV	226	4715	0.06%	0.016%
229	15.917	15.852	15.932	VV	721	11026	0.14%	0.038%
230	15.957	15.932	16.070	VV	2275	36899	0.48%	0.129%
231	16.127	16.070	16.151	PV	252	6019	0.08%	0.021%
232	16.161	16.151	16.195	VV	186	3214	0.04%	0.011%
233	16.231	16.195	16.301	VV	1422	10661	0.14%	0.037%
234	16.328	16.301	16.362	VV	264	6180	0.08%	0.022%
235	16.438	16.362	16.501	VV	1401	28707	0.37%	0.100%
236	16.520	16.501	16.550	VV	206	4995	0.07%	0.017%
237	16.607	16.550	16.698	VV	398	22017	0.29%	0.077%
238	16.742	16.698	16.760	VV	349	10249	0.13%	0.036%
239	16.801	16.760	16.825	VV	425	13212	0.17%	0.046%
240	16.906	16.825	16.966	VV	2541	63040	0.82%	0.220%
241	17.071	16.966	17.089	VV	528	28718	0.37%	0.100%
242	17.358	17.089	17.425	VV	3023	152008	1.98%	0.530%
243	17.492	17.425	17.525	VV	990	50760	0.66%	0.177%
244	17.648	17.525	17.664	VV	1069	78420	1.02%	0.273%
245	17.692	17.664	17.707	VV	1073	26401	0.34%	0.092%
246	17.795	17.707	17.878	VV	5032	176158	2.30%	0.614%
247	17.956	17.878	17.971	VV	1593	80023	1.04%	0.279%
248	17.988	17.971	18.025	VV	1580	48060	0.63%	0.168%
249	18.218	18.025	18.271	VV	5793	319346	4.17%	1.113%
250	18.629	18.271	18.698	VV	7389	678008	8.85%	2.363%
251	18.932	18.698	18.965	VV	3672	504830	6.59%	1.760%
252	19.025	18.965	19.071	VV	7795	302686	3.95%	1.055%
253	19.222	19.071	19.248	VV	4678	466653	6.09%	1.627%
254	19.276	19.248	19.301	VV	4901	150288	1.96%	0.524%
255	19.323	19.301	19.338	VV	4884	105527	1.38%	0.368%
256	19.413	19.338	19.455	VV	8714	403540	5.27%	1.407%
257	19.788	19.455	19.821	VV	9933	1445340	18.87%	5.038%
258	19.848	19.821	19.867	VV	7819	209989	2.74%	0.732%
259	19.973	19.867	19.995	VV	9134	638110	8.33%	2.224%
260	20.065	19.995	20.088	VV	9402	502652	6.56%	1.752%
261	20.153	20.088	20.181	VV	12038	566868	7.40%	1.976%
262	20.387	20.181	20.458	VV	13184	1874965	24.47%	6.536%
263	20.513	20.458	20.568	VV	12756	782263	10.21%	2.727%
264	20.705	20.568	20.738	VV	12740	1207844	15.77%	4.210%
265	20.758	20.738	20.834	VV	11882	675113	8.81%	2.353%
266	20.855	20.834	20.870	VV	11601	250048	3.26%	0.872%
267	20.909	20.870	20.960	VV	12515	638710	8.34%	2.226%
268	20.978	20.960	20.995	VV	11630	237798	3.10%	0.829%
269	21.023	20.995	21.165	VV	11594	1151674	15.03%	4.015%

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270	21.215	21.165	21.288	VV	11082	804453	10.50%	2.804%
271	21.357	21.288	21.450	VV	11176	1053325	13.75%	3.672%
272	21.561	21.450	21.617	VV	11316	1101418	14.38%	3.839%
273	21.650	21.617	21.694	VV	11065	501599	6.55%	1.749%
274	21.778	21.694	21.828	VV	11122	885841	11.56%	3.088%
275	21.876	21.828	21.931	VBA	11266	707195	9.23%	2.465%

Sum of corrected areas: 28686950

Aliphatic EPH 092325.M Tue Sep 30 12:26:23 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	09/23/25	
Project:	RFP 916		Date Received:	09/23/25	
Client Sample ID:	EME-TS13-01		SDG No.:	Q3177	
Lab Sample ID:	Q3177-02		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016474.D	1	09/29/25	09/29/25	PB169879

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		2.07	U	2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16		92.7		4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21		24.4	J	8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36		23.8	U	23.8	80.0	ug/l
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		49.9		40 - 140	100%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		49.4		40 - 140	99%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		48.2		40 - 140	96%	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:	Q3177-02	Acq On:	29 Sep 2025 18:34
Client Sample ID:	EME-TS13-01	Operator:	YP\AJ
Data file:	FF016474.D	Misc:	
Instrument:	FID_F	ALS Vial:	85
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.521	6.397	238910	1.667	200	ug/ml
Aromatic C12-C16	6.398	9.101	6728348	46.343	300	ug/ml
Aromatic C16-C21	9.102	13.420	1760648	12.212	500	ug/ml
Aromatic C21-C36	13.421	18.876	1070559	8.183	800	ug/ml
Aromatic EPH	4.521	18.876	9798465	68.405		ug/ml
2-Bromonaphthalene (SURR)	8.027	8.027	6245899	49.86		ug/ml
2-Flurobiphenyl (SURR)	8.903	8.903	4161823	49.35		ug/ml
ortho-Terphenyl (SURR)	11.972	11.972	7348355	48.2		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016474.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 18:34
Operator : YP\AJ
Sample : Q3177-02
Misc :
ALS Vial : 85 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS13-01

Integration File: autoint1.e
Quant Time: Sep 30 01:05:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
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...	8.027	6245899	49.861 ug/ml
Spiked Amount 50.000		Recovery =	99.72%
6) S 2-Flurobiphenyl (SURR)	8.903	4161823	49.346 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	98.69%
11) S ortho-Terphenyl (SURR)	11.972	7348355	48.202 ug/ml
Spiked Amount 50.000		Recovery =	96.40%
Target Compounds			

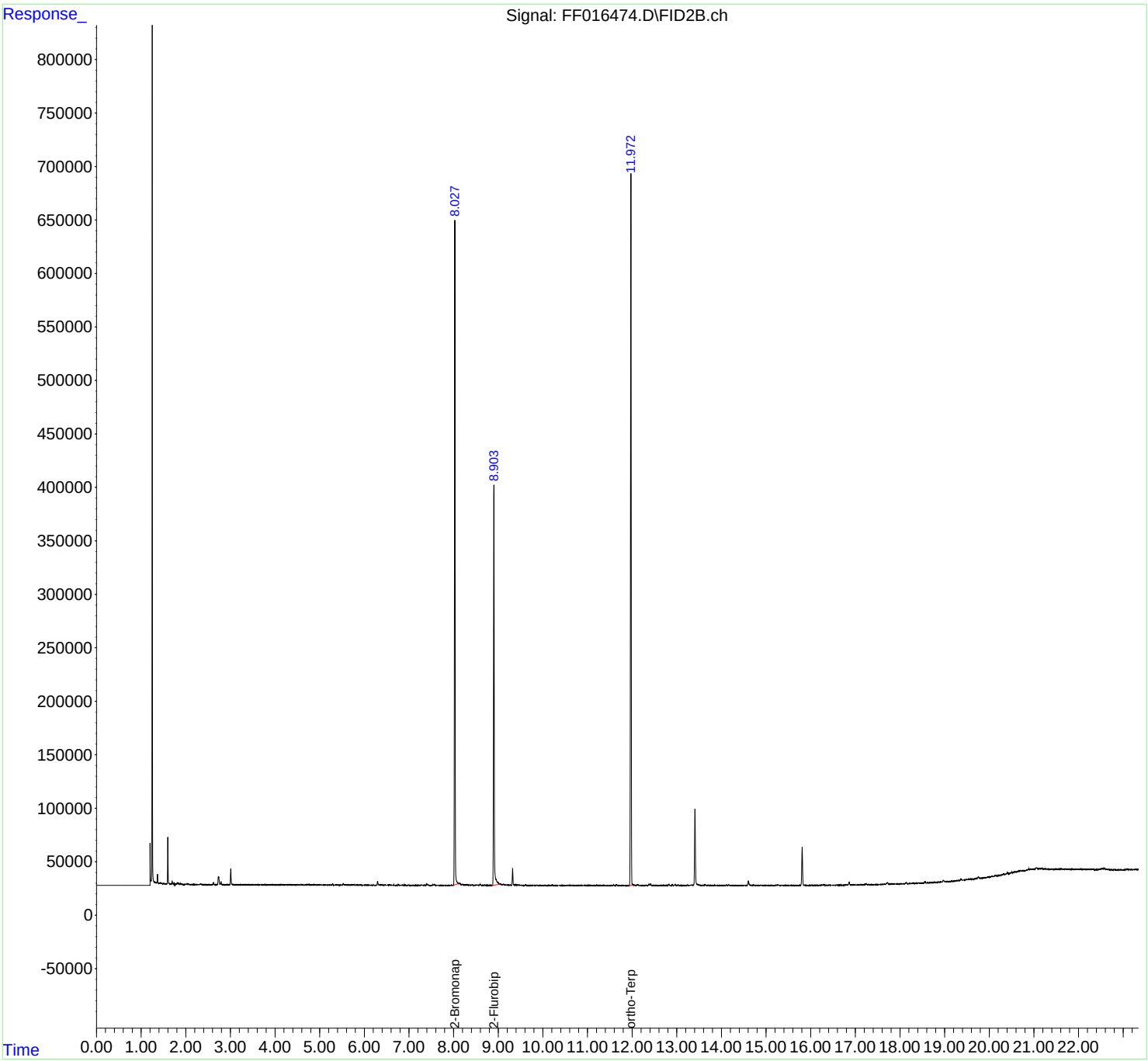
(f)=RT Delta > 1/2 Window (m)=manual int.

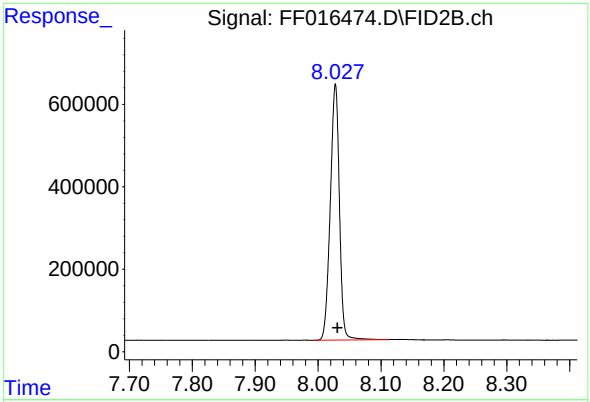
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016474.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 18:34
Operator : YP\AJ
Sample : Q3177-02
Misc :
ALS Vial : 85 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS13-01

Integration File: autoint1.e
Quant Time: Sep 30 01:05:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

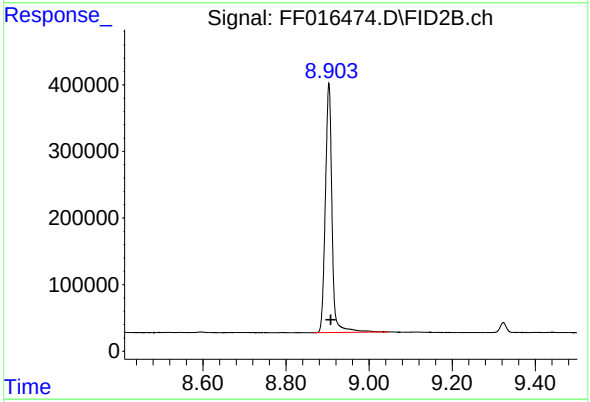




#4 2-Bromonaphthalene (SURR)

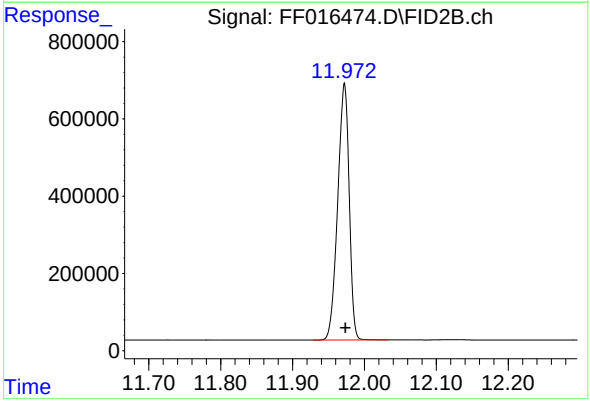
R.T.: 8.027 min
Delta R.T.: -0.003 min
Response: 6245899
Conc: 49.86 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS13-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.903 min
Delta R.T.: -0.004 min
Response: 4161823
Conc: 49.35 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.972 min
Delta R.T.: -0.002 min
Response: 7348355
Conc: 48.20 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016474.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 18:34
Sample : Q3177-02
Misc :
ALS Vial : 85 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.464	4.451	4.475	VV	178	1207	0.02%	0.006%
2	4.492	4.475	4.517	VV	218	2991	0.04%	0.014%
3	4.522	4.517	4.545	VV	120	1255	0.02%	0.006%
4	4.583	4.560	4.604	VV	519	5482	0.07%	0.026%
5	4.619	4.604	4.640	PV	243	2511	0.03%	0.012%
6	4.664	4.640	4.672	VV	128	1258	0.02%	0.006%
7	4.706	4.672	4.722	PV	293	4414	0.06%	0.021%
8	4.744	4.722	4.765	VV	756	10790	0.15%	0.050%
9	4.773	4.765	4.796	VV	333	3831	0.05%	0.018%
10	4.840	4.796	4.857	VV	308	5370	0.07%	0.025%
11	4.870	4.857	4.893	VV	381	4150	0.06%	0.019%
12	4.901	4.893	4.907	VV	211	1246	0.02%	0.006%
13	4.908	4.907	4.922	VV	224	1129	0.02%	0.005%
14	4.953	4.930	4.958	VV	230	2681	0.04%	0.013%
15	4.967	4.958	4.995	VV	227	4315	0.06%	0.020%
16	5.005	4.995	5.034	VV	268	4445	0.06%	0.021%
17	5.041	5.034	5.065	VV	170	2492	0.03%	0.012%
18	5.081	5.065	5.096	VV	282	3451	0.05%	0.016%
19	5.205	5.171	5.214	VV	164	2533	0.03%	0.012%
20	5.230	5.214	5.244	VV	207	2652	0.04%	0.012%
21	5.250	5.244	5.271	VV	183	2458	0.03%	0.011%
22	5.290	5.271	5.332	VV	1039	13824	0.19%	0.065%
23	5.350	5.332	5.383	VV	413	6925	0.09%	0.032%
24	5.402	5.383	5.433	VV	248	3870	0.05%	0.018%
25	5.482	5.433	5.491	PV	234	4443	0.06%	0.021%

rteres

26	5.501	5.491	5.509	VV	199	1809	0.02%	0.008%
27	5.528	5.509	5.565	VV	1748	23579	0.32%	0.110%
28	5.580	5.565	5.589	VV	283	3122	0.04%	0.015%
29	5.596	5.589	5.643	VV	307	7244	0.10%	0.034%
30	5.651	5.643	5.660	VV	222	1676	0.02%	0.008%
31	5.665	5.660	5.680	VV	206	1840	0.02%	0.009%
32	5.692	5.680	5.704	VV	215	2351	0.03%	0.011%
33	5.725	5.704	5.741	VV	480	7013	0.10%	0.033%
34	5.755	5.741	5.795	VV	403	7811	0.11%	0.036%
35	5.810	5.805	5.824	VV	168	1340	0.02%	0.006%
36	5.828	5.824	5.840	VV	160	1263	0.02%	0.006%
37	5.868	5.840	5.875	VV	169	2747	0.04%	0.013%
38	5.881	5.875	5.889	VV	205	1309	0.02%	0.006%
39	5.894	5.889	5.904	VV	202	1410	0.02%	0.007%
40	5.922	5.904	5.928	VV	282	2951	0.04%	0.014%
41	5.930	5.928	5.966	VV	180	2502	0.03%	0.012%
42	5.995	5.975	6.002	PV	175	1892	0.03%	0.009%
43	6.006	6.002	6.014	VV	162	1055	0.01%	0.005%
44	6.018	6.014	6.061	VV	255	4747	0.06%	0.022%
45	6.074	6.061	6.122	VV	327	6255	0.08%	0.029%
46	6.207	6.182	6.235	VV	199	3068	0.04%	0.014%
47	6.298	6.274	6.344	VV	3649	47614	0.65%	0.222%
48	6.360	6.344	6.394	VV	373	8787	0.12%	0.041%
49	6.406	6.394	6.430	VV	411	6307	0.09%	0.029%
50	6.438	6.430	6.450	VV	198	2160	0.03%	0.010%
51	6.475	6.450	6.515	VV	443	8501	0.12%	0.040%
52	6.528	6.515	6.534	VV	182	1470	0.02%	0.007%
53	6.539	6.534	6.544	VV	162	1001	0.01%	0.005%
54	6.553	6.544	6.584	VV	235	4074	0.06%	0.019%
55	6.600	6.584	6.632	VV	322	5314	0.07%	0.025%
56	6.637	6.632	6.650	VV	149	1148	0.02%	0.005%
57	6.658	6.650	6.674	VV	348	1804	0.02%	0.008%
58	6.762	6.715	6.795	VV	1189	15649	0.21%	0.073%
59	6.809	6.795	6.826	VV	237	3144	0.04%	0.015%
60	6.848	6.826	6.872	VV	243	4643	0.06%	0.022%
61	6.890	6.872	6.899	VV	404	2840	0.04%	0.013%
62	6.919	6.899	6.932	VV	398	4535	0.06%	0.021%
63	6.949	6.932	6.974	VV	199	2903	0.04%	0.014%
64	6.991	6.974	7.007	VV	379	3730	0.05%	0.017%
65	7.034	7.007	7.050	VV	143	1820	0.02%	0.008%
66	7.087	7.074	7.093	PV	162	1119	0.02%	0.005%
67	7.111	7.103	7.132	VV	113	1195	0.02%	0.006%
68	7.170	7.132	7.195	VV	140	3047	0.04%	0.014%
69	7.219	7.195	7.240	PV	275	3934	0.05%	0.018%

rteres

70	7.277	7.240	7.285	VV	337	4113	0.06%	0.019%
71	7.294	7.285	7.299	VV	249	1810	0.02%	0.008%
72	7.303	7.299	7.312	VV	243	1469	0.02%	0.007%
73	7.332	7.312	7.375	VV	319	6947	0.09%	0.032%
74	7.398	7.375	7.465	VV	1862	30525	0.41%	0.142%
75	7.486	7.473	7.515	VV	229	4583	0.06%	0.021%
76	7.535	7.515	7.551	VV	839	10124	0.14%	0.047%
77	7.568	7.551	7.606	VV	885	12447	0.17%	0.058%
78	7.626	7.618	7.634	VV	242	1721	0.02%	0.008%
79	7.646	7.642	7.666	VV	243	2367	0.03%	0.011%
80	7.676	7.666	7.689	VV	204	1562	0.02%	0.007%
81	7.712	7.697	7.737	VV	294	4080	0.06%	0.019%
82	7.779	7.759	7.794	VV	212	2982	0.04%	0.014%
83	7.807	7.794	7.832	VV	224	2565	0.03%	0.012%
84	7.871	7.832	7.900	PV	153	2843	0.04%	0.013%
85	7.950	7.929	7.965	VV	320	4849	0.07%	0.023%
86	7.979	7.965	7.993	VV	365	4004	0.05%	0.019%
87	8.028	7.993	8.112	VV	621495	6317197	85.77%	29.484%
88	8.120	8.112	8.130	VV	2035	22219	0.30%	0.104%
89	8.138	8.130	8.191	VV	2037	48886	0.66%	0.228%
90	8.205	8.191	8.240	VV	1210	24197	0.33%	0.113%
91	8.244	8.240	8.267	VV	579	7801	0.11%	0.036%
92	8.300	8.267	8.320	VV	719	17478	0.24%	0.082%
93	8.326	8.320	8.334	VV	471	3368	0.05%	0.016%
94	8.345	8.334	8.359	VV	454	5669	0.08%	0.026%
95	8.364	8.359	8.381	VV	330	3988	0.05%	0.019%
96	8.413	8.381	8.442	VV	538	14699	0.20%	0.069%
97	8.445	8.442	8.459	VV	255	2235	0.03%	0.010%
98	8.460	8.459	8.472	VV	299	1735	0.02%	0.008%
99	8.496	8.472	8.505	VV	452	6553	0.09%	0.031%
100	8.514	8.505	8.532	VV	573	7423	0.10%	0.035%
101	8.546	8.532	8.563	VV	467	6604	0.09%	0.031%
102	8.596	8.563	8.644	VV	1172	22553	0.31%	0.105%
103	8.651	8.644	8.660	VV	282	2218	0.03%	0.010%
104	8.665	8.660	8.672	VV	324	1823	0.02%	0.009%
105	8.691	8.672	8.734	VV	416	11201	0.15%	0.052%
106	8.746	8.734	8.765	VV	284	3770	0.05%	0.018%
107	8.789	8.775	8.819	VV	253	4653	0.06%	0.022%
108	8.830	8.819	8.867	VV	252	4063	0.06%	0.019%
109	8.903	8.867	9.079	VV	374681	4257755	57.81%	19.872%
110	9.085	9.079	9.096	VV	902	8686	0.12%	0.041%
111	9.111	9.096	9.218	VV	1156	48209	0.65%	0.225%
112	9.229	9.218	9.236	VV	385	4098	0.06%	0.019%

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113	9.242	9.236	9.267	VV	442	7087	0.10%	0.033%
114	9.273	9.267	9.276	VV	416	1975	0.03%	0.009%
115	9.280	9.276	9.290	VV	417	3139	0.04%	0.015%
116	9.323	9.290	9.351	VV	15422	166995	2.27%	0.779%
117	9.359	9.351	9.388	VV	639	11039	0.15%	0.052%
118	9.404	9.388	9.419	VV	573	9301	0.13%	0.043%
119	9.440	9.419	9.463	VV	762	13444	0.18%	0.063%
120	9.472	9.463	9.498	VV	423	7612	0.10%	0.036%
121	9.514	9.498	9.546	VV	303	5680	0.08%	0.027%
122	9.566	9.553	9.589	VV	259	4462	0.06%	0.021%
123	9.611	9.589	9.642	VV	643	11915	0.16%	0.056%
124	9.652	9.642	9.678	VV	230	3085	0.04%	0.014%
125	9.710	9.689	9.737	VV	282	5176	0.07%	0.024%
126	9.755	9.737	9.770	VV	160	2439	0.03%	0.011%
127	9.793	9.770	9.836	VV	455	8071	0.11%	0.038%
128	9.868	9.836	9.957	VV	475	13127	0.18%	0.061%
129	9.961	9.957	9.978	VV	173	1675	0.02%	0.008%
130	9.985	9.978	9.997	VV	178	1749	0.02%	0.008%
131	10.039	9.997	10.062	VV	354	6699	0.09%	0.031%
132	10.072	10.062	10.091	VV	185	2159	0.03%	0.010%
133	10.123	10.091	10.165	VV	304	7468	0.10%	0.035%
134	10.170	10.165	10.185	VV	116	1193	0.02%	0.006%
135	10.205	10.185	10.259	VV	710	11423	0.16%	0.053%
136	10.308	10.259	10.317	VV	163	2905	0.04%	0.014%
137	10.365	10.350	10.396	VV	166	3345	0.05%	0.016%
138	10.398	10.396	10.417	VV	120	1236	0.02%	0.006%
139	10.432	10.417	10.473	VV	349	5491	0.07%	0.026%
140	10.491	10.473	10.507	VV	140	1538	0.02%	0.007%
141	10.530	10.507	10.549	VV	237	3706	0.05%	0.017%
142	10.562	10.549	10.584	VV	226	3536	0.05%	0.017%
143	10.597	10.584	10.620	VV	307	4579	0.06%	0.021%
144	10.629	10.620	10.703	VV	247	8252	0.11%	0.039%
145	10.725	10.703	10.746	VV	425	7092	0.10%	0.033%
146	10.769	10.746	10.800	VV	405	8377	0.11%	0.039%
147	10.813	10.800	10.819	VV	278	2674	0.04%	0.012%
148	10.832	10.819	10.842	VV	335	3679	0.05%	0.017%
149	10.857	10.842	10.864	VV	286	2997	0.04%	0.014%
150	10.870	10.864	10.892	VV	229	3449	0.05%	0.016%
151	10.935	10.892	10.955	VV	393	9466	0.13%	0.044%
152	10.961	10.955	10.985	VV	212	2951	0.04%	0.014%
153	11.002	10.985	11.007	VV	187	1742	0.02%	0.008%
154	11.019	11.007	11.025	VV	301	2557	0.03%	0.012%
155	11.043	11.025	11.064	VV	532	9135	0.12%	0.043%

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156	11.076	11.064	11.104	VV	462	7021	0.10%	0.033%
157	11.127	11.104	11.153	VV	266	5376	0.07%	0.025%
158	11.162	11.153	11.186	VV	288	3399	0.05%	0.016%
159	11.205	11.186	11.245	VV	340	8480	0.12%	0.040%
160	11.272	11.245	11.304	VV	277	7070	0.10%	0.033%
161	11.320	11.304	11.326	VV	226	2336	0.03%	0.011%
162	11.330	11.326	11.342	VV	226	1615	0.02%	0.008%
163	11.361	11.342	11.390	VV	412	7339	0.10%	0.034%
164	11.453	11.421	11.457	PV	138	1692	0.02%	0.008%
165	11.476	11.471	11.499	VV	125	1669	0.02%	0.008%
166	11.511	11.499	11.525	VV	192	1674	0.02%	0.008%
167	11.582	11.555	11.605	VV	670	9229	0.13%	0.043%
168	11.627	11.605	11.632	VV	313	3806	0.05%	0.018%
169	11.651	11.632	11.680	VV	1101	15075	0.20%	0.070%
170	11.690	11.680	11.700	VV	135	1249	0.02%	0.006%
171	11.708	11.700	11.713	VV	207	1010	0.01%	0.005%
172	11.727	11.713	11.756	VV	305	4397	0.06%	0.021%
173	11.780	11.756	11.799	VV	299	4212	0.06%	0.020%
174	11.808	11.799	11.833	VV	146	1662	0.02%	0.008%
175	11.972	11.919	12.034	PV	665142	7365087	100.00%	34.375%
176	12.041	12.034	12.090	VV	584	14961	0.20%	0.070%
177	12.113	12.090	12.122	VV	958	12209	0.17%	0.057%
178	12.135	12.122	12.162	VV	902	13169	0.18%	0.061%
179	12.181	12.162	12.237	VV	249	6965	0.09%	0.033%
180	12.311	12.237	12.339	VV	346	11696	0.16%	0.055%
181	12.374	12.339	12.393	VV	1704	23194	0.31%	0.108%
182	12.412	12.393	12.470	VV	1967	29047	0.39%	0.136%
183	12.480	12.470	12.502	VV	264	3336	0.05%	0.016%
184	12.543	12.502	12.574	VV	321	8436	0.11%	0.039%
185	12.632	12.574	12.654	VV	256	8020	0.11%	0.037%
186	12.705	12.654	12.727	VV	397	12113	0.16%	0.057%
187	12.743	12.727	12.792	VV	387	10634	0.14%	0.050%
188	12.823	12.792	12.862	VV	1182	20843	0.28%	0.097%
189	12.902	12.862	12.935	VV	835	15712	0.21%	0.073%
190	12.963	12.935	12.999	VV	1178	19712	0.27%	0.092%
191	13.026	12.999	13.065	VV	674	13735	0.19%	0.064%
192	13.087	13.065	13.126	VV	296	5883	0.08%	0.027%
193	13.188	13.126	13.220	VV	225	7094	0.10%	0.033%
194	13.243	13.220	13.293	VV	552	11585	0.16%	0.054%
195	13.323	13.293	13.349	VV	783	13584	0.18%	0.063%
196	13.408	13.349	13.552	VV	71569	962482	13.07%	4.492%
197	13.579	13.552	13.609	VV	379	9064	0.12%	0.042%
198	13.632	13.609	13.668	VV	1027	18002	0.24%	0.084%
199	13.692	13.668	13.717	VV	326	6730	0.09%	0.031%

200	13.736	13.717	13.759	VV	242	4759	0.06%	0.022%
201	13.780	13.759	13.820	VV	249	7771	0.11%	0.036%
202	13.839	13.820	13.848	VV	383	2953	0.04%	0.014%
203	13.865	13.848	13.892	VV	265	4724	0.06%	0.022%
204	13.909	13.892	13.940	VV	278	5291	0.07%	0.025%
205	13.957	13.940	13.974	VV	286	4356	0.06%	0.020%
206	13.984	13.974	14.004	VV	257	4162	0.06%	0.019%
207	14.031	14.004	14.087	VV	274	9494	0.13%	0.044%
208	14.113	14.087	14.141	VV	651	11436	0.16%	0.053%
209	14.164	14.141	14.215	VV	748	14382	0.20%	0.067%
210	14.232	14.215	14.272	VV	168	3903	0.05%	0.018%
211	14.285	14.272	14.314	VV	131	2157	0.03%	0.010%
212	14.337	14.314	14.356	PV	123	1576	0.02%	0.007%
213	14.380	14.356	14.387	VV	108	1413	0.02%	0.007%
214	14.401	14.387	14.419	VV	161	1748	0.02%	0.008%
215	14.451	14.419	14.493	VV	185	4863	0.07%	0.023%
216	14.526	14.493	14.535	VV	143	2365	0.03%	0.011%
217	14.603	14.535	14.697	VV	4371	83365	1.13%	0.389%
218	14.724	14.697	14.784	VV	458	11829	0.16%	0.055%
219	14.831	14.784	14.858	VV	282	9565	0.13%	0.045%
220	14.891	14.858	14.915	VV	302	7761	0.11%	0.036%
221	14.938	14.915	14.957	VV	288	5164	0.07%	0.024%
222	14.969	14.957	14.979	VV	229	2089	0.03%	0.010%
223	14.987	14.979	14.994	VV	133	1104	0.01%	0.005%
224	15.008	14.994	15.020	VV	179	1783	0.02%	0.008%
225	15.049	15.020	15.069	VV	229	3756	0.05%	0.018%
226	15.082	15.069	15.090	VV	163	1628	0.02%	0.008%
227	15.100	15.090	15.177	VV	172	4628	0.06%	0.022%
228	15.229	15.202	15.244	VV	464	7092	0.10%	0.033%
229	15.269	15.244	15.352	VV	644	15839	0.22%	0.074%
230	15.367	15.352	15.394	VV	167	2749	0.04%	0.013%
231	15.440	15.414	15.499	VV	292	8188	0.11%	0.038%
232	15.509	15.499	15.552	VV	157	2595	0.04%	0.012%
233	15.575	15.552	15.620	PV	225	3791	0.05%	0.018%
234	15.653	15.620	15.665	VV	165	2620	0.04%	0.012%
235	15.689	15.665	15.742	VV	236	5393	0.07%	0.025%
236	15.753	15.742	15.770	VV	158	1356	0.02%	0.006%
237	15.809	15.770	15.915	VV	35763	458632	6.23%	2.141%
238	15.945	15.915	15.970	VV	143	2839	0.04%	0.013%
239	16.011	15.970	16.057	VV	116	4052	0.06%	0.019%
240	16.065	16.057	16.109	VV	133	2779	0.04%	0.013%
241	16.128	16.109	16.152	VV	170	2474	0.03%	0.012%
242	16.183	16.169	16.201	VV	119	1675	0.02%	0.008%

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243	16.228	16.201	16.238	VV	220	3635	0.05%	0.017%
244	16.256	16.238	16.274	VV	314	5111	0.07%	0.024%
245	16.295	16.274	16.342	VV	558	9960	0.14%	0.046%
246	16.352	16.342	16.368	VV	132	1440	0.02%	0.007%
247	16.397	16.368	16.409	VV	148	2099	0.03%	0.010%
248	16.439	16.409	16.465	VV	205	4620	0.06%	0.022%
249	16.475	16.465	16.499	VV	131	1578	0.02%	0.007%
250	16.549	16.536	16.562	VV	92	1005	0.01%	0.005%
251	16.595	16.562	16.606	PV	125	2062	0.03%	0.010%
252	16.650	16.627	16.702	VV	136	3449	0.05%	0.016%
253	16.708	16.702	16.743	VV	70	1158	0.02%	0.005%
254	16.778	16.743	16.808	PV	319	6107	0.08%	0.029%
255	16.861	16.808	16.900	VV	2513	40937	0.56%	0.191%
256	16.961	16.900	17.052	VV	329	17246	0.23%	0.080%
257	17.063	17.052	17.087	VV	147	1856	0.03%	0.009%
258	17.142	17.087	17.175	PV	277	8635	0.12%	0.040%
259	17.245	17.175	17.271	VV	715	20671	0.28%	0.096%
260	17.295	17.271	17.332	VV	361	6124	0.08%	0.029%
261	17.360	17.332	17.397	VV	128	2646	0.04%	0.012%
262	17.572	17.445	17.599	PV	279	10558	0.14%	0.049%
263	17.648	17.599	17.671	VV	249	7180	0.10%	0.034%
264	17.721	17.671	17.755	VV	1743	35782	0.49%	0.167%
265	17.797	17.755	17.835	VV	374	10370	0.14%	0.048%
266	17.930	17.835	17.962	VV	167	7454	0.10%	0.035%
267	17.990	17.962	18.017	VV	175	3190	0.04%	0.015%
268	18.061	18.017	18.075	VV	132	2387	0.03%	0.011%
269	18.137	18.075	18.190	VV	1210	21808	0.30%	0.102%
270	18.236	18.190	18.264	VV	114	2691	0.04%	0.013%
271	18.295	18.264	18.345	PV	226	5175	0.07%	0.024%
272	18.420	18.345	18.444	PV	409	6912	0.09%	0.032%
273	18.492	18.444	18.502	VV	187	2588	0.04%	0.012%
274	18.561	18.502	18.600	VV	1235	22376	0.30%	0.104%
275	18.629	18.600	18.642	VV	192	2960	0.04%	0.014%
276	18.675	18.642	18.695	VV	139	3130	0.04%	0.015%
277	18.714	18.695	18.739	VV	91	1433	0.02%	0.007%
278	18.779	18.739	18.800	PV	304	5586	0.08%	0.026%
279	18.823	18.800	18.850	VBA	102	2745	0.04%	0.013%
				Sum of corrected areas:		21425499		

Aromatic EPH 092425.M Tue Sep 30 01:30:59 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-02	SDG No.:	Q3177
Lab Sample ID:	Q3177-03	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
09/29/25 08:30	09/30/25 10:29	PB169879

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	7.57	J	1	8.28	30.0	ug/l	FC069876.D
Aliphatic C12-C16	Aliphatic C12-C16	10.8	J	1	13.5	20.0	ug/l	FC069876.D
Aliphatic C16-C21	Aliphatic C16-C21	7.98	J	1	8.34	30.0	ug/l	FC069876.D
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	1	12.5	40.0	ug/l	FC069876.D
Aliphatic C28-C40	Aliphatic C28-C40	270		1	23.8	60.0	ug/l	FC069876.D
Aromatic C10-C12	Aromatic C10-C12	15.0	J	1	2.07	20.0	ug/l	FF016475.D
Aromatic C12-C16	Aromatic C12-C16	26.3	J	1	4.26	30.0	ug/l	FF016475.D
Aromatic C16-C21	Aromatic C16-C21	51.5		1	8.27	50.0	ug/l	FF016475.D
Aromatic C21-C36	Aromatic C21-C36	23.8	U	1	23.8	80.0	ug/l	FF016475.D
Total AliphaticEPH	Total AliphaticEPH	296			66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	92.8	J		38.4	180	ug/l	
Total EPH	Total EPH	389			105	360	ug/l	

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:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-02	SDG No.:	Q3177
Lab Sample ID:	Q3177-03	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069876.D	1	09/29/25	09/30/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	7.57	J	8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	10.8	J	13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	7.98	J	8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	270		23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	42.3		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:	Q3177-03	Acq On:	30 Sep 2025 10:29
Client Sample ID:	EME-TS14-02	Operator:	YP/AJ
Data file:	FC069876.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	3.284	6.578	505053	3.783	300	ug/ml
Aliphatic C12-C16	6.579	9.980	846703	5.404	200	ug/ml
Aliphatic C16-C21	9.981	13.346	716693	3.992	300	ug/ml
Aliphatic C21-C28	13.347	17.008	628242	3.472	400	ug/ml
Aliphatic C28-C40	17.009	21.963	17398340	135.209	600	ug/ml
Aliphatic EPH	3.284	21.963	20095031	151.86		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.082	13.082	6673665	42.26		ug/ml
Aliphatic C9-C28	3.284	17.008	2696691	16.651	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100125AL\
Data File : FC069876.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 10:29
Operator : YP/AJ
Sample : Q3177-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EME-TS14-02

Integration File: autoint1.e
Quant Time: Sep 30 12:18:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.082	6673665	42.260 ug/ml
Spiked Amount 50.000		Recovery = 84.52%	
Target Compounds			

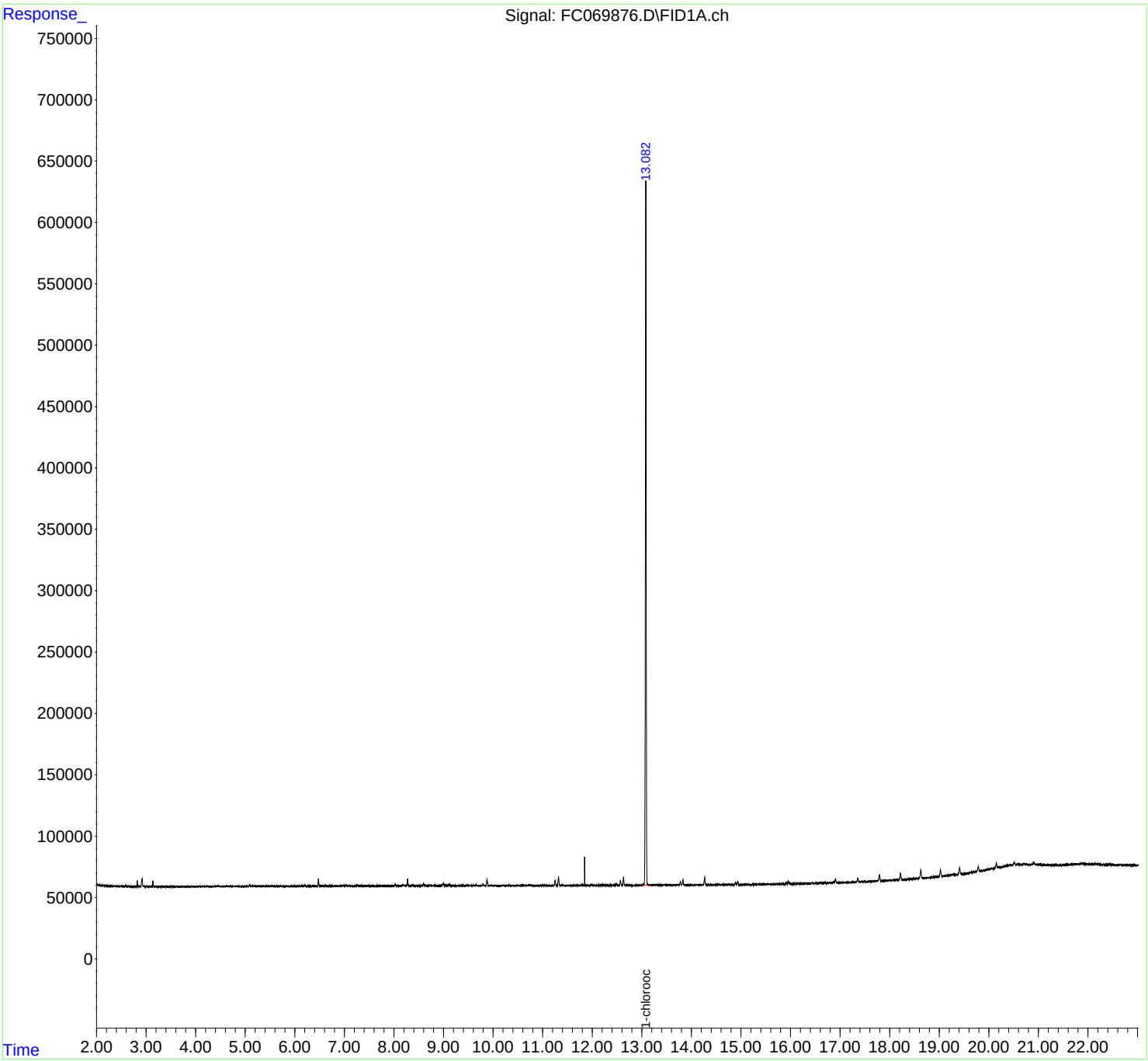
(f)=RT Delta > 1/2 Window (m)=manual int.

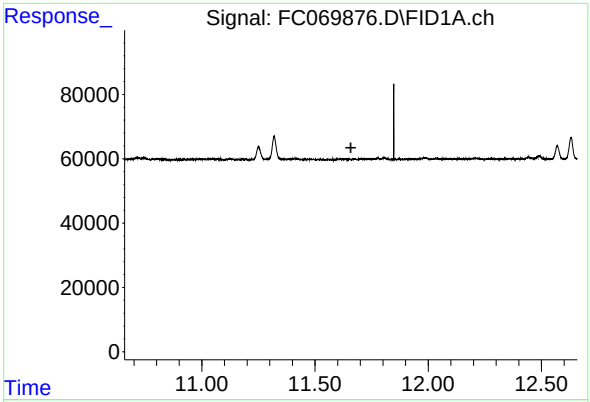
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100125AL\
Data File : FC069876.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 10:29
Operator : YP/AJ
Sample : Q3177-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EME-TS14-02

Integration File: autoint1.e
Quant Time: Sep 30 12:18:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

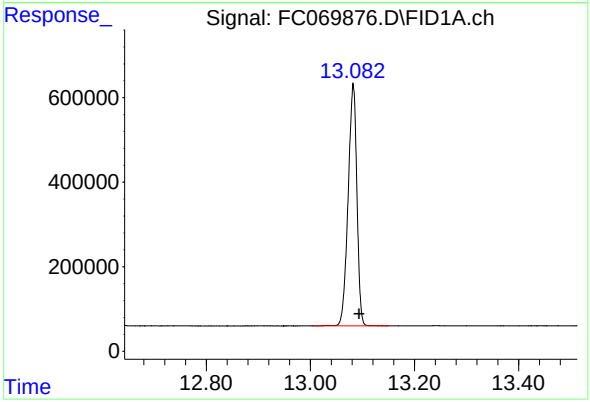




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.658 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EME-TS14-02



#12 1-chlorooctadecane (SURR)

R.T.: 13.082 min
Delta R.T.: -0.012 min
Response: 6673665
Conc: 42.26 ug/ml

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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100125AL\
Data File : FC069876.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 10:29
Sample : Q3177-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.299	3.221	3.311	BV	63	1044	0.02%	0.004%
2	3.325	3.311	3.335	VV	79	686	0.01%	0.003%
3	3.338	3.335	3.361	VV	72	584	0.01%	0.002%
4	3.386	3.361	3.425	PV	172	3606	0.05%	0.013%
5	3.434	3.425	3.447	PV	135	758	0.01%	0.003%
6	3.486	3.447	3.520	VV	179	4020	0.06%	0.015%
7	3.541	3.520	3.565	VV	123	1649	0.02%	0.006%
8	3.591	3.565	3.608	VV	158	1859	0.03%	0.007%
9	3.628	3.608	3.638	VV	77	1037	0.02%	0.004%
10	3.671	3.638	3.695	PV	149	2968	0.04%	0.011%
11	3.715	3.695	3.748	VV	186	3318	0.05%	0.012%
12	3.760	3.748	3.775	VV	167	1766	0.03%	0.007%
13	3.815	3.775	3.832	VV	135	3420	0.05%	0.013%
14	3.845	3.832	3.857	VV	107	1446	0.02%	0.005%
15	3.882	3.857	3.931	VV	225	5369	0.08%	0.020%
16	3.941	3.931	3.950	VV	95	855	0.01%	0.003%
17	3.967	3.950	3.985	VV	159	2685	0.04%	0.010%
18	4.004	3.985	4.015	VV	150	2075	0.03%	0.008%
19	4.022	4.015	4.028	VV	179	836	0.01%	0.003%
20	4.057	4.028	4.071	VV	299	5234	0.08%	0.020%
21	4.084	4.071	4.116	VV	472	5374	0.08%	0.020%
22	4.126	4.116	4.131	VV	132	921	0.01%	0.003%
23	4.150	4.131	4.172	VV	339	4151	0.06%	0.016%
24	4.186	4.172	4.190	VV	129	1226	0.02%	0.005%
25	4.199	4.190	4.205	VV	242	1462	0.02%	0.005%
26	4.229	4.205	4.254	VV	457	7742	0.12%	0.029%
27	4.272	4.254	4.304	VV	170	4067	0.06%	0.015%
28	4.329	4.304	4.351	VV	204	4344	0.06%	0.016%
29	4.384	4.351	4.434	VV	732	13117	0.20%	0.049%
30	4.456	4.434	4.479	VV	1135	13674	0.20%	0.051%
31	4.500	4.479	4.514	VV	264	3854	0.06%	0.014%

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32	4.562	4.514	4.595	VV	392	11220	0.17%	0.042%
33	4.626	4.595	4.650	VV	816	13185	0.20%	0.049%
34	4.662	4.650	4.667	VV	299	2568	0.04%	0.010%
35	4.680	4.667	4.694	VV	488	5126	0.08%	0.019%
36	4.711	4.694	4.728	VV	671	7688	0.11%	0.029%
37	4.744	4.728	4.778	VV	306	5727	0.09%	0.021%
38	4.787	4.778	4.857	VV	243	9407	0.14%	0.035%
39	4.890	4.857	4.945	VV	284	9026	0.14%	0.034%
40	4.948	4.945	4.968	VV	134	1224	0.02%	0.005%
41	5.013	4.968	5.031	VV	289	6458	0.10%	0.024%
42	5.064	5.031	5.073	VV	403	6661	0.10%	0.025%
43	5.091	5.073	5.116	VV	1589	18551	0.28%	0.069%
44	5.147	5.116	5.168	VV	588	9780	0.15%	0.037%
45	5.181	5.168	5.224	VV	698	12366	0.18%	0.046%
46	5.309	5.224	5.351	VV	342	19296	0.29%	0.072%
47	5.382	5.351	5.421	VV	407	11147	0.17%	0.042%
48	5.434	5.421	5.450	VV	439	5864	0.09%	0.022%
49	5.460	5.450	5.478	VV	345	4781	0.07%	0.018%
50	5.495	5.478	5.518	VV	717	9852	0.15%	0.037%
51	5.537	5.518	5.555	VV	749	9269	0.14%	0.035%
52	5.566	5.555	5.570	VV	228	1949	0.03%	0.007%
53	5.591	5.570	5.613	VV	358	6905	0.10%	0.026%
54	5.635	5.613	5.645	VV	366	5684	0.09%	0.021%
55	5.658	5.645	5.667	VV	351	4452	0.07%	0.017%
56	5.681	5.667	5.718	VV	393	8220	0.12%	0.031%
57	5.776	5.718	5.811	VV	331	12740	0.19%	0.048%
58	5.841	5.811	5.862	VV	323	6947	0.10%	0.026%
59	5.872	5.862	5.882	VV	288	2716	0.04%	0.010%
60	5.894	5.882	5.905	VV	238	2845	0.04%	0.011%
61	5.911	5.905	5.918	VV	236	1463	0.02%	0.005%
62	5.944	5.918	5.986	VV	330	10040	0.15%	0.037%
63	5.997	5.986	6.032	VV	307	6555	0.10%	0.024%
64	6.056	6.032	6.074	VV	494	8532	0.13%	0.032%
65	6.094	6.074	6.117	VV	554	9653	0.14%	0.036%
66	6.136	6.117	6.181	VV	601	12919	0.19%	0.048%
67	6.197	6.181	6.248	VV	665	13205	0.20%	0.049%
68	6.269	6.248	6.340	VV	355	12375	0.19%	0.046%
69	6.368	6.340	6.404	VV	361	9137	0.14%	0.034%
70	6.411	6.404	6.422	VV	246	2007	0.03%	0.007%
71	6.477	6.422	6.508	VV	6139	69672	1.04%	0.260%
72	6.522	6.508	6.541	VV	338	5470	0.08%	0.020%
73	6.563	6.541	6.581	VV	416	7224	0.11%	0.027%
74	6.593	6.581	6.610	VV	350	4619	0.07%	0.017%
75	6.627	6.610	6.651	VV	654	10246	0.15%	0.038%
76	6.659	6.651	6.678	VV	385	4528	0.07%	0.017%
77	6.699	6.678	6.732	VV	568	10369	0.16%	0.039%
78	6.765	6.732	6.799	VV	488	10393	0.16%	0.039%
79	6.809	6.799	6.830	VV	251	3287	0.05%	0.012%

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80	6.846	6.830	6.858	VV	183	2520	0.04%	0.009%
81	6.920	6.858	6.949	VV	492	14522	0.22%	0.054%
82	6.974	6.949	7.001	VV	553	11416	0.17%	0.043%
83	7.034	7.001	7.071	VV	1082	20243	0.30%	0.076%
84	7.101	7.071	7.131	VV	627	14122	0.21%	0.053%
85	7.146	7.131	7.161	VV	309	4399	0.07%	0.016%
86	7.174	7.161	7.191	VV	279	3791	0.06%	0.014%
87	7.214	7.191	7.226	VV	266	4266	0.06%	0.016%
88	7.262	7.226	7.308	VV	1328	21549	0.32%	0.080%
89	7.327	7.308	7.357	VV	398	9020	0.13%	0.034%
90	7.369	7.357	7.379	VV	351	3882	0.06%	0.014%
91	7.399	7.379	7.442	VV	648	13561	0.20%	0.051%
92	7.465	7.442	7.482	VV	512	7837	0.12%	0.029%
93	7.493	7.482	7.506	VV	373	4410	0.07%	0.016%
94	7.510	7.506	7.538	VV	299	4048	0.06%	0.015%
95	7.555	7.538	7.643	VV	297	13620	0.20%	0.051%
96	7.665	7.643	7.717	VV	644	13255	0.20%	0.049%
97	7.765	7.717	7.798	VV	331	12812	0.19%	0.048%
98	7.817	7.798	7.847	VV	340	7859	0.12%	0.029%
99	7.862	7.847	7.873	VV	260	3738	0.06%	0.014%
100	7.884	7.873	7.911	VV	295	5871	0.09%	0.022%
101	7.923	7.911	7.945	VV	327	3838	0.06%	0.014%
102	7.969	7.945	7.993	VV	512	8112	0.12%	0.030%
103	8.026	7.993	8.048	VV	1350	18404	0.28%	0.069%
104	8.063	8.048	8.081	VV	382	5569	0.08%	0.021%
105	8.098	8.081	8.110	VV	307	4812	0.07%	0.018%
106	8.127	8.110	8.142	VV	352	6241	0.09%	0.023%
107	8.181	8.142	8.246	VV	1200	31244	0.47%	0.117%
108	8.274	8.246	8.344	VV	5725	74900	1.12%	0.280%
109	8.374	8.344	8.411	VV	477	14302	0.21%	0.053%
110	8.424	8.411	8.441	VV	373	4935	0.07%	0.018%
111	8.456	8.441	8.465	VV	295	3237	0.05%	0.012%
112	8.473	8.465	8.498	VV	288	4442	0.07%	0.017%
113	8.510	8.498	8.545	VV	447	6839	0.10%	0.026%
114	8.556	8.545	8.567	VV	257	2548	0.04%	0.010%
115	8.593	8.567	8.670	VV	1815	45821	0.69%	0.171%
116	8.690	8.670	8.725	VV	536	13304	0.20%	0.050%
117	8.768	8.725	8.796	VV	489	17040	0.25%	0.064%
118	8.815	8.796	8.826	VV	539	7746	0.12%	0.029%
119	8.833	8.826	8.858	VV	497	6981	0.10%	0.026%
120	8.881	8.858	8.903	VV	336	6849	0.10%	0.026%
121	8.997	8.903	9.020	VV	2132	53494	0.80%	0.200%
122	9.033	9.020	9.077	VV	594	15430	0.23%	0.058%
123	9.115	9.077	9.165	VV	1193	28177	0.42%	0.105%
124	9.188	9.165	9.217	VV	406	8678	0.13%	0.032%
125	9.236	9.217	9.260	VV	340	6358	0.10%	0.024%
126	9.281	9.260	9.301	VV	309	5761	0.09%	0.022%

127	9.334	9.301	9.370	VV	430	12216	0.18%	0.046%
128	9.396	9.370	9.443	VV	520	13737	0.21%	0.051%
129	9.467	9.443	9.505	VV	652	14086	0.21%	0.053%
130	9.517	9.505	9.528	VV	351	4276	0.06%	0.016%
131	9.544	9.528	9.581	VV	281	7596	0.11%	0.028%
132	9.613	9.581	9.636	VV	393	9582	0.14%	0.036%
133	9.657	9.636	9.695	VV	1148	16312	0.24%	0.061%
134	9.717	9.695	9.738	VV	299	5619	0.08%	0.021%
135	9.747	9.738	9.763	VV	286	3245	0.05%	0.012%
136	9.797	9.763	9.851	VV	1753	30035	0.45%	0.112%
137	9.878	9.851	9.915	VV	5369	69490	1.04%	0.259%
138	9.920	9.915	9.938	VV	248	3524	0.05%	0.013%
139	9.951	9.938	9.960	VV	305	3778	0.06%	0.014%
140	9.973	9.960	10.014	VV	346	7962	0.12%	0.030%
141	10.028	10.014	10.041	VV	222	3605	0.05%	0.013%
142	10.048	10.041	10.069	VV	205	2837	0.04%	0.011%
143	10.158	10.069	10.181	VV	225	10314	0.15%	0.039%
144	10.199	10.181	10.214	VV	325	4785	0.07%	0.018%
145	10.229	10.214	10.238	VV	224	3429	0.05%	0.013%
146	10.268	10.238	10.295	VV	484	10043	0.15%	0.038%
147	10.313	10.295	10.329	VV	408	6400	0.10%	0.024%
148	10.338	10.329	10.388	VV	273	8407	0.13%	0.031%
149	10.421	10.388	10.445	VV	226	6258	0.09%	0.023%
150	10.479	10.445	10.494	VV	308	6938	0.10%	0.026%
151	10.513	10.494	10.535	VV	406	7034	0.11%	0.026%
152	10.561	10.535	10.581	VV	402	8923	0.13%	0.033%
153	10.618	10.581	10.652	VV	792	17407	0.26%	0.065%
154	10.715	10.652	10.731	VV	854	21560	0.32%	0.081%
155	10.745	10.731	10.772	VV	747	12102	0.18%	0.045%
156	10.807	10.772	10.822	VV	417	9206	0.14%	0.034%
157	10.834	10.822	10.861	VV	343	5164	0.08%	0.019%
158	10.899	10.861	10.913	PV	237	5581	0.08%	0.021%
159	10.939	10.913	10.971	VV	266	7774	0.12%	0.029%
160	11.001	10.971	11.028	VV	304	9253	0.14%	0.035%
161	11.047	11.028	11.103	VV	433	12255	0.18%	0.046%
162	11.123	11.103	11.166	VV	357	8418	0.13%	0.031%
163	11.181	11.166	11.215	VV	245	4833	0.07%	0.018%
164	11.250	11.215	11.283	VV	4124	55853	0.84%	0.209%
165	11.319	11.283	11.393	VV	7309	99583	1.49%	0.372%
166	11.416	11.393	11.459	VV	501	10657	0.16%	0.040%
167	11.491	11.459	11.529	VV	202	5896	0.09%	0.022%
168	11.556	11.529	11.587	VV	187	3205	0.05%	0.012%
169	11.610	11.587	11.661	VV	236	7365	0.11%	0.028%
170	11.676	11.661	11.687	VV	220	2582	0.04%	0.010%
171	11.711	11.687	11.731	VV	285	5766	0.09%	0.022%
172	11.737	11.731	11.753	VV	313	3003	0.04%	0.011%
173	11.777	11.753	11.791	VV	538	7483	0.11%	0.028%
174	11.806	11.791	11.831	VV	666	9021	0.13%	0.034%

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175	11.848	11.831	11.915	VV	6971	19378	0.29%	0.072%
176	11.925	11.915	11.948	VV	228	3759	0.06%	0.014%
177	11.988	11.948	12.015	VV	595	14228	0.21%	0.053%
178	12.038	12.015	12.074	VV	394	8383	0.13%	0.031%
179	12.089	12.074	12.102	VV	205	2967	0.04%	0.011%
180	12.144	12.102	12.169	VV	216	7529	0.11%	0.028%
181	12.208	12.169	12.248	VV	402	11470	0.17%	0.043%
182	12.281	12.248	12.309	VV	236	5982	0.09%	0.022%
183	12.373	12.309	12.384	VV	272	7801	0.12%	0.029%
184	12.442	12.384	12.466	VV	634	15462	0.23%	0.058%
185	12.491	12.466	12.518	VV	1038	16459	0.25%	0.061%
186	12.527	12.518	12.538	VV	174	1758	0.03%	0.007%
187	12.570	12.538	12.600	VV	4146	52292	0.78%	0.195%
188	12.631	12.600	12.677	VV	6903	83365	1.25%	0.311%
189	12.693	12.677	12.721	VV	469	7271	0.11%	0.027%
190	12.729	12.721	12.736	VV	234	1914	0.03%	0.007%
191	12.750	12.736	12.800	VV	379	7471	0.11%	0.028%
192	12.814	12.800	12.836	PV	122	1758	0.03%	0.007%
193	12.904	12.836	12.945	VV	278	7753	0.12%	0.029%
194	12.949	12.945	12.971	VV	134	1653	0.02%	0.006%
195	13.036	12.971	13.044	VV	1115	17700	0.26%	0.066%
196	13.082	13.044	13.220	VV	567740	6685908	100.00%	24.965%
197	13.243	13.220	13.278	VV	483	10167	0.15%	0.038%
198	13.303	13.278	13.331	VV	299	7233	0.11%	0.027%
199	13.369	13.331	13.401	VV	324	8354	0.12%	0.031%
200	13.447	13.401	13.463	VV	330	9353	0.14%	0.035%
201	13.473	13.463	13.495	VV	261	4047	0.06%	0.015%
202	13.517	13.495	13.610	VV	371	12064	0.18%	0.045%
203	13.650	13.610	13.668	PV	512	8954	0.13%	0.033%
204	13.687	13.668	13.726	VV	278	6741	0.10%	0.025%
205	13.736	13.726	13.748	VV	160	1698	0.03%	0.006%
206	13.779	13.748	13.804	VV	3060	41950	0.63%	0.157%
207	13.829	13.804	13.907	VV	4561	59070	0.88%	0.221%
208	14.060	13.907	14.108	VV	198	8050	0.12%	0.030%
209	14.122	14.108	14.141	VV	94	1390	0.02%	0.005%
210	14.160	14.141	14.188	VV	140	2527	0.04%	0.009%
211	14.205	14.188	14.230	VV	99	2318	0.03%	0.009%
212	14.267	14.230	14.315	VV	6092	81682	1.22%	0.305%
213	14.319	14.315	14.371	VV	162	4278	0.06%	0.016%
214	14.393	14.371	14.428	VV	421	6871	0.10%	0.026%
215	14.467	14.428	14.481	VV	279	5334	0.08%	0.020%
216	14.484	14.481	14.502	VV	212	1612	0.02%	0.006%
217	14.536	14.502	14.585	VV	253	8601	0.13%	0.032%
218	14.590	14.585	14.605	VV	108	943	0.01%	0.004%
219	14.618	14.605	14.641	VV	172	2478	0.04%	0.009%
220	14.708	14.641	14.725	VV	233	7846	0.12%	0.029%
221	14.733	14.725	14.751	VV	212	2681	0.04%	0.010%

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222	14.774	14.751	14.808	VV	530	7727	0.12%	0.029%
223	14.824	14.808	14.841	VV	124	1616	0.02%	0.006%
224	14.888	14.841	14.910	PV	1915	26972	0.40%	0.101%
225	14.933	14.910	14.998	VV	3006	43207	0.65%	0.161%
226	15.024	14.998	15.076	VV	170	4714	0.07%	0.018%
227	15.107	15.076	15.158	PV	223	6911	0.10%	0.026%
228	15.239	15.158	15.255	VV	110	4406	0.07%	0.016%
229	15.320	15.255	15.331	PV	157	4486	0.07%	0.017%
230	15.348	15.331	15.386	VV	242	5222	0.08%	0.019%
231	15.455	15.386	15.528	VV	503	15527	0.23%	0.058%
232	15.538	15.528	15.546	VV	128	775	0.01%	0.003%
233	15.552	15.546	15.561	VV	62	450	0.01%	0.002%
234	15.596	15.561	15.608	VV	148	2766	0.04%	0.010%
235	15.627	15.608	15.665	VV	145	3993	0.06%	0.015%
236	15.798	15.665	15.878	VV	248	17507	0.26%	0.065%
237	15.915	15.878	15.934	VV	1118	16562	0.25%	0.062%
238	15.956	15.934	15.996	VV	2223	32011	0.48%	0.120%
239	16.006	15.996	16.071	VV	244	5508	0.08%	0.021%
240	16.094	16.071	16.109	PV	164	2134	0.03%	0.008%
241	16.132	16.109	16.209	VV	185	6993	0.10%	0.026%
242	16.308	16.209	16.321	VV	179	7783	0.12%	0.029%
243	16.325	16.321	16.332	VV	157	852	0.01%	0.003%
244	16.339	16.332	16.361	VV	173	1492	0.02%	0.006%
245	16.439	16.361	16.474	PV	1026	18060	0.27%	0.067%
246	16.485	16.474	16.508	VV	221	3060	0.05%	0.011%
247	16.522	16.508	16.548	VV	242	3737	0.06%	0.014%
248	16.575	16.548	16.586	VV	278	4357	0.07%	0.016%
249	16.603	16.586	16.662	VV	303	10899	0.16%	0.041%
250	16.757	16.662	16.766	VV	155	9532	0.14%	0.036%
251	16.792	16.766	16.820	VV	344	7120	0.11%	0.027%
252	16.870	16.820	16.883	VV	778	15733	0.24%	0.059%
253	16.906	16.883	16.987	VV	2719	47288	0.71%	0.177%
254	17.029	16.987	17.048	VV	219	6900	0.10%	0.026%
255	17.054	17.048	17.108	VV	232	6388	0.10%	0.024%
256	17.238	17.108	17.272	VV	405	26545	0.40%	0.099%
257	17.358	17.272	17.411	VV	3021	66838	1.00%	0.250%
258	17.521	17.411	17.547	VV	607	40140	0.60%	0.150%
259	17.794	17.547	17.844	VV	5918	191429	2.86%	0.715%
260	17.977	17.844	17.995	VV	1042	80330	1.20%	0.300%
261	18.218	17.995	18.255	VV	6690	261264	3.91%	0.976%
262	18.484	18.255	18.508	VV	2201	249919	3.74%	0.933%
263	18.628	18.508	18.678	VV	8888	313170	4.68%	1.169%
264	18.886	18.678	18.903	VV	3036	346608	5.18%	1.294%
265	18.932	18.903	18.952	VV	3060	86932	1.30%	0.325%
266	19.025	18.952	19.075	VV	8670	309798	4.63%	1.157%
267	19.274	19.075	19.301	VV	4506	532125	7.96%	1.987%
268	19.327	19.301	19.348	VV	4536	123083	1.84%	0.460%
269	19.411	19.348	19.471	VV	9969	422440	6.32%	1.577%

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270	19.787	19.471	19.828	VV	10261	1306492	19.54%	4.878%
271	19.975	19.828	19.992	VV	8111	734920	10.99%	2.744%
272	20.064	19.992	20.094	VV	8827	513638	7.68%	1.918%
273	20.152	20.094	20.186	VV	12752	545944	8.17%	2.039%
274	20.220	20.186	20.245	VV	9696	338425	5.06%	1.264%
275	20.427	20.245	20.460	VV	11273	1365958	20.43%	5.100%
276	20.512	20.460	20.551	VV	13092	640995	9.59%	2.393%
277	20.703	20.551	20.745	VV	11804	1319714	19.74%	4.928%
278	20.759	20.745	20.789	VV	11332	297963	4.46%	1.113%
279	20.807	20.789	20.827	VV	11121	252187	3.77%	0.942%
280	20.909	20.827	20.991	VV	12563	1122811	16.79%	4.193%
281	21.014	20.991	21.160	VV	10952	1084477	16.22%	4.049%
282	21.181	21.160	21.211	VV	10411	317417	4.75%	1.185%
283	21.247	21.211	21.306	VV	10385	581614	8.70%	2.172%
284	21.351	21.306	21.435	VV	10745	787760	11.78%	2.941%
285	21.445	21.435	21.478	VV	10029	259804	3.89%	0.970%
286	21.593	21.478	21.624	VV	10490	902750	13.50%	3.371%
287	21.737	21.624	21.815	VV	10581	1193178	17.85%	4.455%
288	21.859	21.815	21.931	VBA	10985	768384	11.49%	2.869%
			Sum of corrected areas:			26780944		

Aliphatic EPH 092325.M Tue Sep 30 12:26:50 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	09/23/25	
Project:	RFP 916		Date Received:	09/23/25	
Client Sample ID:	EME-TS14-02		SDG No.:	Q3177	
Lab Sample ID:	Q3177-03		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016475.D	1	09/29/25	09/29/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	15.0	J	2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	26.3	J	4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	51.5		8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	23.8	U	23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	55.0		40 - 140	110%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	55.0		40 - 140	110%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	52.8		40 - 140	106%	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:	Q3177-03	Acq On:	29 Sep 2025 19:04
Client Sample ID:	EME-TS14-02	Operator:	YP\AJ
Data file:	FF016475.D	Misc:	
Instrument:	FID_F	ALS Vial:	86
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.521	6.397	1074214	7.495	200	ug/ml
Aromatic C12-C16	6.398	9.101	1912614	13.174	300	ug/ml
Aromatic C16-C21	9.102	13.420	3708879	25.725	500	ug/ml
Aromatic C21-C36	13.421	18.876	963133	7.361	800	ug/ml
Aromatic EPH	4.521	18.876	7658840	53.755		ug/ml
2-Bromonaphthalene (SURR)	8.028	8.028	6888377	54.99		ug/ml
2-Flurobiphenyl (SURR)	8.903	8.903	4640245	55.02		ug/ml
ortho-Terphenyl (SURR)	11.973	11.973	8041937	52.75		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016475.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 19:04
Operator : YP\AJ
Sample : Q3177-03
Misc :
ALS Vial : 86 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS14-02

Integration File: autoint1.e
Quant Time: Sep 30 01:05:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
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...	8.028	6888377	54.990 ug/ml
Spiked Amount 50.000		Recovery = 109.98%	
6) S 2-Flurobiphenyl (SURR)	8.903	4640245	55.019 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 110.04%	
11) S ortho-Terphenyl (SURR)	11.973	8041937	52.752 ug/ml
Spiked Amount 50.000		Recovery = 105.50%	
Target Compounds			

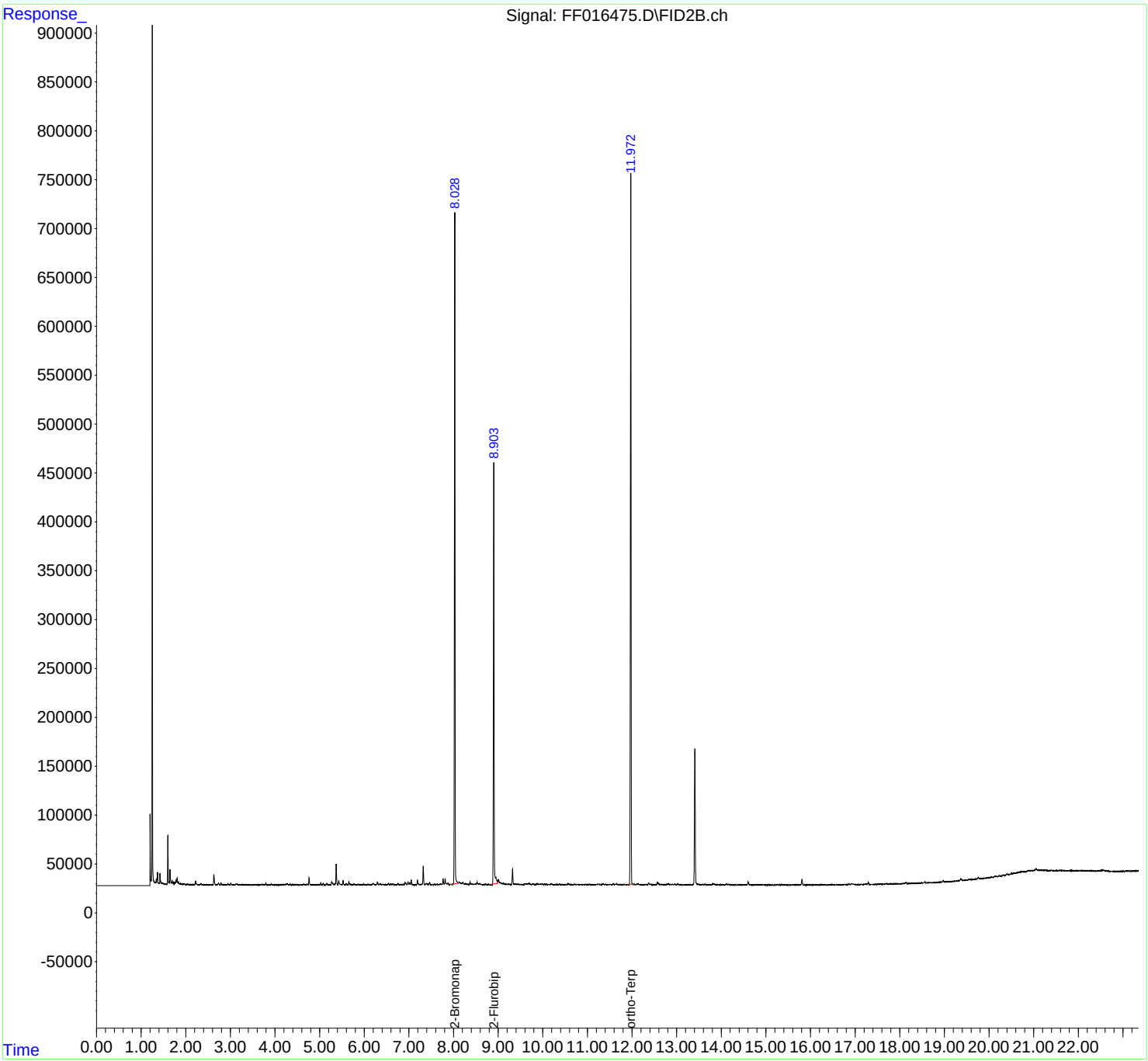
(f)=RT Delta > 1/2 Window (m)=manual int.

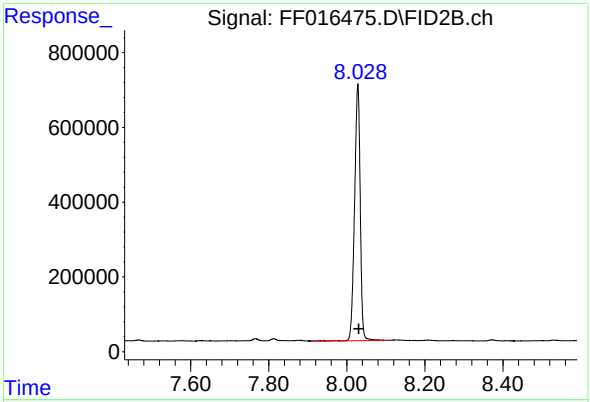
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016475.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 19:04
Operator : YP\AJ
Sample : Q3177-03
Misc :
ALS Vial : 86 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS14-02

Integration File: autoint1.e
Quant Time: Sep 30 01:05:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

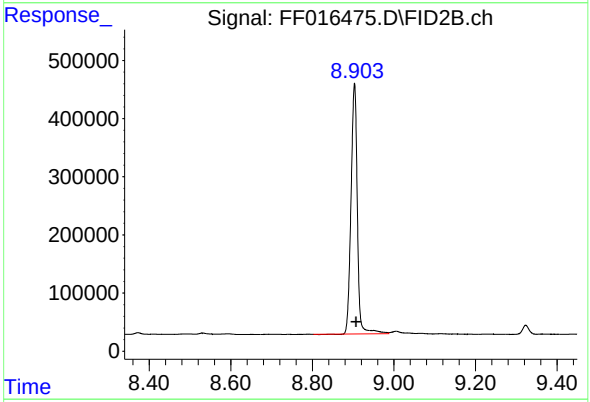




#4 2-Bromonaphthalene (SURR)

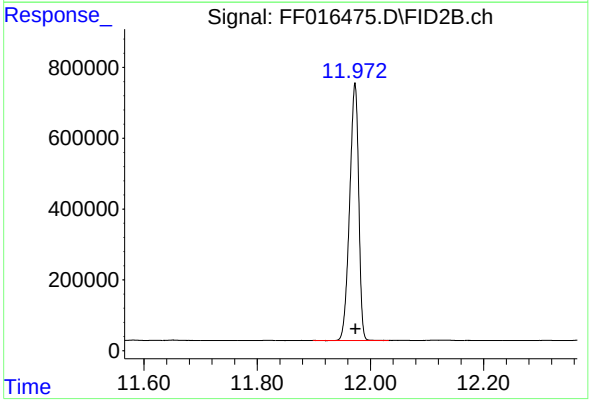
R.T.: 8.028 min
Delta R.T.: -0.002 min
Response: 6888377
Conc: 54.99 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.903 min
Delta R.T.: -0.004 min
Response: 4640245
Conc: 55.02 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.973 min
Delta R.T.: -0.001 min
Response: 8041937
Conc: 52.75 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016475.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 19:04
Sample : Q3177-03
Misc :
ALS Vial : 86 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.448	4.410	4.484	BV	386	4508	0.06%	0.016%
2	4.500	4.484	4.558	VV	424	7518	0.09%	0.027%
3	4.584	4.558	4.607	PV	657	9185	0.11%	0.033%
4	4.619	4.607	4.632	VV	447	5146	0.06%	0.019%
5	4.647	4.632	4.678	VV	962	17651	0.22%	0.064%
6	4.690	4.678	4.697	VV	457	4844	0.06%	0.018%
7	4.699	4.697	4.703	VV	489	1627	0.02%	0.006%
8	4.718	4.703	4.736	VV	952	13621	0.17%	0.050%
9	4.763	4.736	4.792	VV	7498	83227	1.03%	0.302%
10	4.803	4.792	4.828	VV	524	6478	0.08%	0.024%
11	4.845	4.828	4.856	VV	420	4736	0.06%	0.017%
12	4.869	4.856	4.884	VV	426	4333	0.05%	0.016%
13	4.908	4.884	4.914	VV	322	3844	0.05%	0.014%
14	4.917	4.914	4.923	VV	228	1035	0.01%	0.004%
15	4.946	4.923	4.959	VV	456	7209	0.09%	0.026%
16	4.973	4.959	4.990	VV	413	6143	0.08%	0.022%
17	5.024	4.990	5.051	VV	2133	27395	0.34%	0.100%
18	5.080	5.051	5.136	VV	2046	29285	0.36%	0.106%
19	5.160	5.136	5.199	VV	1895	27543	0.34%	0.100%
20	5.207	5.199	5.250	VV	413	7445	0.09%	0.027%
21	5.269	5.250	5.323	VV	3760	69516	0.86%	0.253%
22	5.349	5.323	5.353	VV	1493	18882	0.23%	0.069%
23	5.371	5.353	5.407	VV	21483	226853	2.80%	0.825%
24	5.430	5.407	5.507	VV	4623	81079	1.00%	0.295%
25	5.526	5.507	5.575	VV	4880	63385	0.78%	0.230%

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26	5.595	5.575	5.613	VV	1659	20335	0.25%	0.074%
27	5.626	5.613	5.637	VV	572	6938	0.09%	0.025%
28	5.656	5.637	5.675	VV	3542	41014	0.51%	0.149%
29	5.688	5.675	5.708	VV	1306	15554	0.19%	0.057%
30	5.727	5.708	5.746	VV	623	8817	0.11%	0.032%
31	5.773	5.746	5.794	VV	1502	21183	0.26%	0.077%
32	5.799	5.794	5.814	VV	629	6578	0.08%	0.024%
33	5.823	5.814	5.842	VV	579	7792	0.10%	0.028%
34	5.870	5.842	5.884	VV	951	15062	0.19%	0.055%
35	5.891	5.884	5.910	VV	602	7812	0.10%	0.028%
36	5.936	5.910	5.955	VV	434	9846	0.12%	0.036%
37	5.982	5.955	5.987	VV	750	10509	0.13%	0.038%
38	5.991	5.987	6.014	VV	766	8864	0.11%	0.032%
39	6.032	6.014	6.060	VV	362	8071	0.10%	0.029%
40	6.079	6.060	6.105	VV	1236	17155	0.21%	0.062%
41	6.121	6.105	6.138	VV	597	9405	0.12%	0.034%
42	6.151	6.138	6.169	VV	491	7473	0.09%	0.027%
43	6.195	6.169	6.227	VV	1785	38837	0.48%	0.141%
44	6.232	6.227	6.259	VV	644	9140	0.11%	0.033%
45	6.264	6.259	6.269	VV	423	2448	0.03%	0.009%
46	6.296	6.269	6.332	VV	3317	53571	0.66%	0.195%
47	6.354	6.332	6.386	VV	1486	27348	0.34%	0.099%
48	6.404	6.386	6.431	VV	1057	17325	0.21%	0.063%
49	6.443	6.431	6.455	VV	473	5576	0.07%	0.020%
50	6.483	6.455	6.504	VV	604	13235	0.16%	0.048%
51	6.509	6.504	6.513	VV	394	1817	0.02%	0.007%
52	6.540	6.513	6.570	VV	1787	31022	0.38%	0.113%
53	6.591	6.570	6.610	VV	1444	21700	0.27%	0.079%
54	6.624	6.610	6.637	VV	1467	16502	0.20%	0.060%
55	6.659	6.637	6.685	VV	1139	22319	0.28%	0.081%
56	6.699	6.685	6.704	VV	366	3398	0.04%	0.012%
57	6.720	6.704	6.737	VV	679	8683	0.11%	0.032%
58	6.758	6.737	6.790	VV	1758	25792	0.32%	0.094%
59	6.819	6.790	6.837	VV	950	14649	0.18%	0.053%
60	6.862	6.837	6.877	VV	908	13950	0.17%	0.051%
61	6.881	6.877	6.891	VV	775	6044	0.07%	0.022%
62	6.913	6.891	6.930	VV	3080	44618	0.55%	0.162%
63	6.935	6.930	6.960	VV	1806	21050	0.26%	0.077%
64	6.979	6.960	6.999	VV	3526	44042	0.54%	0.160%
65	7.017	6.999	7.034	VV	2505	33827	0.42%	0.123%
66	7.054	7.034	7.091	VV	5341	69630	0.86%	0.253%
67	7.097	7.091	7.117	VV	494	5382	0.07%	0.020%
68	7.133	7.117	7.150	VV	404	4981	0.06%	0.018%
69	7.159	7.150	7.169	VV	316	2236	0.03%	0.008%

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70	7.192	7.169	7.240	VV	5188	73171	0.90%	0.266%
71	7.286	7.240	7.298	VV	990	21462	0.27%	0.078%
72	7.321	7.298	7.369	VV	19582	215898	2.67%	0.785%
73	7.395	7.369	7.423	VV	1943	39818	0.49%	0.145%
74	7.439	7.423	7.446	VV	957	11817	0.15%	0.043%
75	7.466	7.446	7.501	VV	3030	41285	0.51%	0.150%
76	7.532	7.501	7.550	VV	796	13950	0.17%	0.051%
77	7.575	7.550	7.607	VV	1151	23009	0.28%	0.084%
78	7.627	7.607	7.642	VV	1346	16965	0.21%	0.062%
79	7.652	7.642	7.667	VV	827	9484	0.12%	0.034%
80	7.678	7.667	7.689	VV	644	7166	0.09%	0.026%
81	7.704	7.689	7.722	VV	1246	19354	0.24%	0.070%
82	7.738	7.722	7.747	VV	1118	13479	0.17%	0.049%
83	7.766	7.747	7.791	VV	6599	77870	0.96%	0.283%
84	7.813	7.791	7.833	VV	6519	79695	0.99%	0.290%
85	7.840	7.833	7.854	VV	1655	16667	0.21%	0.061%
86	7.878	7.854	7.910	VV	2313	41686	0.52%	0.152%
87	7.937	7.910	7.958	VV	934	19896	0.25%	0.072%
88	7.975	7.958	7.987	VV	958	14087	0.17%	0.051%
89	8.028	7.987	8.107	VV	689089	7000339	86.54%	25.443%
90	8.126	8.107	8.185	VV	3290	106638	1.32%	0.388%
91	8.210	8.185	8.239	VV	2639	61729	0.76%	0.224%
92	8.255	8.239	8.262	VV	1246	15772	0.19%	0.057%
93	8.271	8.262	8.294	VV	1332	22553	0.28%	0.082%
94	8.313	8.294	8.334	VV	1063	22173	0.27%	0.081%
95	8.337	8.334	8.350	VV	728	7052	0.09%	0.026%
96	8.372	8.350	8.400	VV	3535	51187	0.63%	0.186%
97	8.411	8.400	8.442	VV	1014	21644	0.27%	0.079%
98	8.450	8.442	8.462	VV	859	9011	0.11%	0.033%
99	8.496	8.462	8.513	VV	1353	33667	0.42%	0.122%
100	8.531	8.513	8.569	VV	2834	54364	0.67%	0.198%
101	8.593	8.569	8.622	VV	1670	34791	0.43%	0.126%
102	8.634	8.622	8.641	VV	576	6315	0.08%	0.023%
103	8.655	8.641	8.674	VV	612	9915	0.12%	0.036%
104	8.693	8.674	8.705	VV	834	12500	0.15%	0.045%
105	8.711	8.705	8.734	VV	835	12275	0.15%	0.045%
106	8.743	8.734	8.760	VV	662	9268	0.11%	0.034%
107	8.789	8.760	8.817	VV	928	21851	0.27%	0.079%
108	8.847	8.817	8.860	VV	821	14905	0.18%	0.054%
109	8.903	8.860	8.987	VV	432802	4753380	58.76%	17.276%
110	9.006	8.987	9.027	VV	6003	108015	1.34%	0.393%
111	9.032	9.027	9.055	VV	3058	45111	0.56%	0.164%
112	9.067	9.055	9.095	VV	2469	47341	0.59%	0.172%

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113	9.114	9.095	9.144	VV	1813	43070	0.53%	0.157%
114	9.147	9.144	9.174	VV	1243	20103	0.25%	0.073%
115	9.190	9.174	9.204	VV	1018	15612	0.19%	0.057%
116	9.233	9.204	9.249	VV	1008	24400	0.30%	0.089%
117	9.254	9.249	9.293	VV	845	19011	0.24%	0.069%
118	9.323	9.293	9.352	VV	16360	193781	2.40%	0.704%
119	9.363	9.352	9.370	VV	1160	11620	0.14%	0.042%
120	9.375	9.370	9.397	VV	1132	15439	0.19%	0.056%
121	9.401	9.397	9.417	VV	905	9418	0.12%	0.034%
122	9.439	9.417	9.489	VV	1011	34181	0.42%	0.124%
123	9.506	9.489	9.512	VV	782	9324	0.12%	0.034%
124	9.517	9.512	9.542	VV	843	11176	0.14%	0.041%
125	9.568	9.542	9.580	VV	496	10485	0.13%	0.038%
126	9.602	9.580	9.614	VV	1617	23500	0.29%	0.085%
127	9.619	9.614	9.633	VV	1445	15311	0.19%	0.056%
128	9.645	9.633	9.655	VV	1257	15224	0.19%	0.055%
129	9.669	9.655	9.682	VV	1610	21668	0.27%	0.079%
130	9.698	9.682	9.740	VV	1856	42787	0.53%	0.156%
131	9.764	9.740	9.778	VV	1210	21355	0.26%	0.078%
132	9.792	9.778	9.822	VV	1269	23812	0.29%	0.087%
133	9.870	9.822	9.897	VV	1898	44588	0.55%	0.162%
134	9.910	9.897	9.927	VV	1046	15231	0.19%	0.055%
135	9.945	9.927	9.977	VV	1357	28806	0.36%	0.105%
136	9.991	9.977	10.020	VV	1162	19379	0.24%	0.070%
137	10.039	10.020	10.067	VV	1073	21261	0.26%	0.077%
138	10.086	10.067	10.108	VV	956	17330	0.21%	0.063%
139	10.127	10.108	10.159	VV	845	20950	0.26%	0.076%
140	10.179	10.159	10.189	VV	905	12970	0.16%	0.047%
141	10.204	10.189	10.248	VV	1421	26790	0.33%	0.097%
142	10.261	10.248	10.275	VV	554	7464	0.09%	0.027%
143	10.301	10.275	10.322	VV	988	19665	0.24%	0.071%
144	10.327	10.322	10.334	VV	567	3595	0.04%	0.013%
145	10.340	10.334	10.346	VV	518	3393	0.04%	0.012%
146	10.373	10.346	10.395	VV	912	19195	0.24%	0.070%
147	10.404	10.395	10.421	VV	706	9183	0.11%	0.033%
148	10.431	10.421	10.467	VV	672	13269	0.16%	0.048%
149	10.476	10.467	10.481	VV	370	2977	0.04%	0.011%
150	10.507	10.481	10.526	VV	710	13441	0.17%	0.049%
151	10.539	10.526	10.545	VV	612	6139	0.08%	0.022%
152	10.567	10.545	10.589	VV	1739	29490	0.36%	0.107%
153	10.595	10.589	10.619	VV	846	11847	0.15%	0.043%
154	10.635	10.619	10.660	VV	780	12880	0.16%	0.047%
155	10.678	10.660	10.697	VV	559	10327	0.13%	0.038%

156	10.724	10.697	10.745	VV	1088	21969	0.27%	0.080%
157	10.765	10.745	10.777	VV	735	11760	0.15%	0.043%
158	10.785	10.777	10.804	VV	801	10492	0.13%	0.038%
159	10.816	10.804	10.831	VV	641	9380	0.12%	0.034%
160	10.837	10.831	10.852	VV	564	6678	0.08%	0.024%
161	10.857	10.852	10.862	VV	535	2943	0.04%	0.011%
162	10.868	10.862	10.887	VV	578	8051	0.10%	0.029%
163	10.914	10.887	10.934	VV	641	14362	0.18%	0.052%
164	10.965	10.934	10.997	VV	676	19613	0.24%	0.071%
165	11.016	10.997	11.032	VV	649	12464	0.15%	0.045%
166	11.043	11.032	11.062	VV	810	11813	0.15%	0.043%
167	11.076	11.062	11.120	VV	702	18766	0.23%	0.068%
168	11.159	11.120	11.179	VV	492	13940	0.17%	0.051%
169	11.198	11.179	11.214	VV	824	12582	0.16%	0.046%
170	11.238	11.214	11.307	VV	1284	43313	0.54%	0.157%
171	11.333	11.307	11.349	VV	1394	23586	0.29%	0.086%
172	11.360	11.349	11.382	VV	1031	16079	0.20%	0.058%
173	11.388	11.382	11.390	VV	561	2421	0.03%	0.009%
174	11.410	11.390	11.443	VV	852	19307	0.24%	0.070%
175	11.449	11.443	11.455	VV	479	3170	0.04%	0.012%
176	11.476	11.455	11.493	VV	670	12194	0.15%	0.044%
177	11.511	11.493	11.541	VV	953	18240	0.23%	0.066%
178	11.547	11.541	11.552	VV	368	2306	0.03%	0.008%
179	11.581	11.552	11.602	VV	1672	28256	0.35%	0.103%
180	11.619	11.602	11.633	VV	936	14541	0.18%	0.053%
181	11.651	11.633	11.714	VV	1616	40942	0.51%	0.149%
182	11.720	11.714	11.726	VV	529	3580	0.04%	0.013%
183	11.746	11.726	11.777	VV	632	14552	0.18%	0.053%
184	11.785	11.777	11.795	VV	543	5221	0.06%	0.019%
185	11.819	11.795	11.853	VV	892	19505	0.24%	0.071%
186	11.879	11.853	11.885	VV	705	9071	0.11%	0.033%
187	11.900	11.885	11.922	VV	735	11559	0.14%	0.042%
188	11.973	11.922	12.038	VV	726001	8089138	100.00%	29.400%
189	12.053	12.038	12.059	VV	816	9699	0.12%	0.035%
190	12.065	12.059	12.089	VV	786	11864	0.15%	0.043%
191	12.111	12.089	12.120	VV	1320	18379	0.23%	0.067%
192	12.134	12.120	12.162	VV	1535	26176	0.32%	0.095%
193	12.172	12.162	12.203	VV	757	13103	0.16%	0.048%
194	12.221	12.203	12.252	VV	550	12628	0.16%	0.046%
195	12.262	12.252	12.282	VV	423	6786	0.08%	0.025%
196	12.314	12.282	12.349	VV	797	22773	0.28%	0.083%
197	12.372	12.349	12.394	VV	2275	32401	0.40%	0.118%
198	12.411	12.394	12.444	VV	1460	24189	0.30%	0.088%
199	12.449	12.444	12.464	VV	459	4825	0.06%	0.018%

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200	12.479	12.464	12.484	VV	508	5276	0.07%	0.019%
201	12.487	12.484	12.514	VV	468	6645	0.08%	0.024%
202	12.569	12.514	12.676	VV	3156	98400	1.22%	0.358%
203	12.694	12.676	12.699	VV	590	7395	0.09%	0.027%
204	12.703	12.699	12.706	VV	553	2020	0.02%	0.007%
205	12.709	12.706	12.717	VV	576	3658	0.05%	0.013%
206	12.722	12.717	12.734	VV	585	4994	0.06%	0.018%
207	12.741	12.734	12.757	VV	584	7336	0.09%	0.027%
208	12.787	12.757	12.805	VV	1254	24155	0.30%	0.088%
209	12.822	12.805	12.849	VV	1524	24487	0.30%	0.089%
210	12.868	12.849	12.883	VV	696	11678	0.14%	0.042%
211	12.902	12.883	12.932	VV	1159	19268	0.24%	0.070%
212	12.962	12.932	12.994	VV	1553	25041	0.31%	0.091%
213	13.026	12.994	13.068	VV	1637	31103	0.38%	0.113%
214	13.086	13.068	13.092	VV	434	5287	0.07%	0.019%
215	13.094	13.092	13.124	VV	465	5771	0.07%	0.021%
216	13.172	13.124	13.187	VV	381	11634	0.14%	0.042%
217	13.228	13.187	13.255	VV	576	16766	0.21%	0.061%
218	13.277	13.255	13.302	VV	469	10853	0.13%	0.039%
219	13.323	13.302	13.344	VV	470	9325	0.12%	0.034%
220	13.408	13.344	13.488	VV	139496	1780861	22.02%	6.473%
221	13.502	13.488	13.557	VV	755	20975	0.26%	0.076%
222	13.579	13.557	13.608	VV	942	19028	0.24%	0.069%
223	13.630	13.608	13.655	VV	1342	20902	0.26%	0.076%
224	13.667	13.655	13.680	VV	404	5406	0.07%	0.020%
225	13.699	13.680	13.732	VV	583	12887	0.16%	0.047%
226	13.766	13.732	13.775	VV	464	9477	0.12%	0.034%
227	13.813	13.775	13.894	VV	1609	57446	0.71%	0.209%
228	13.898	13.894	13.957	VV	503	16339	0.20%	0.059%
229	13.979	13.957	14.007	VV	477	11701	0.14%	0.043%
230	14.028	14.007	14.055	VV	416	8966	0.11%	0.033%
231	14.116	14.055	14.144	VV	1568	32431	0.40%	0.118%
232	14.163	14.144	14.209	VV	1056	21050	0.26%	0.077%
233	14.218	14.209	14.277	VV	321	6197	0.08%	0.023%
234	14.285	14.277	14.303	VV	131	1934	0.02%	0.007%
235	14.323	14.303	14.344	VV	179	2637	0.03%	0.010%
236	14.394	14.344	14.434	VV	279	9374	0.12%	0.034%
237	14.455	14.434	14.475	VV	285	5350	0.07%	0.019%
238	14.504	14.475	14.531	VV	400	8340	0.10%	0.030%
239	14.600	14.531	14.631	VV	3563	59839	0.74%	0.217%
240	14.639	14.631	14.705	VV	496	14128	0.17%	0.051%
241	14.728	14.705	14.747	VV	422	6743	0.08%	0.025%
242	14.761	14.747	14.771	VV	275	3585	0.04%	0.013%

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243	14.793	14.771	14.813	VV	444	8320	0.10%	0.030%
244	14.831	14.813	14.866	VV	422	10019	0.12%	0.036%
245	14.885	14.866	14.905	VV	319	5899	0.07%	0.021%
246	14.920	14.905	14.933	VV	366	4860	0.06%	0.018%
247	14.941	14.933	15.014	VV	332	10019	0.12%	0.036%
248	15.041	15.014	15.065	VV	248	5628	0.07%	0.020%
249	15.076	15.065	15.149	VV	265	7816	0.10%	0.028%
250	15.153	15.149	15.182	VV	183	1572	0.02%	0.006%
251	15.224	15.182	15.246	VV	592	11646	0.14%	0.042%
252	15.268	15.246	15.302	VV	738	14037	0.17%	0.051%
253	15.309	15.302	15.320	VV	208	1873	0.02%	0.007%
254	15.352	15.320	15.385	VV	706	12547	0.16%	0.046%
255	15.406	15.385	15.422	VV	286	4699	0.06%	0.017%
256	15.443	15.422	15.497	VV	336	10002	0.12%	0.036%
257	15.505	15.497	15.534	VV	182	2562	0.03%	0.009%
258	15.569	15.534	15.595	PV	256	4052	0.05%	0.015%
259	15.620	15.595	15.664	VV	262	6465	0.08%	0.023%
260	15.684	15.664	15.720	VV	416	7793	0.10%	0.028%
261	15.741	15.720	15.759	VV	183	2934	0.04%	0.011%
262	15.808	15.759	15.844	VV	5937	80512	1.00%	0.293%
263	15.861	15.844	15.899	VV	144	3101	0.04%	0.011%
264	15.917	15.899	15.947	VV	218	3109	0.04%	0.011%
265	15.968	15.947	15.986	VV	206	2828	0.03%	0.010%
266	16.000	15.986	16.029	VV	108	1941	0.02%	0.007%
267	16.066	16.029	16.087	VV	212	4203	0.05%	0.015%
268	16.094	16.087	16.135	VV	170	3597	0.04%	0.013%
269	16.150	16.135	16.202	VV	122	3552	0.04%	0.013%
270	16.224	16.202	16.233	VV	190	2792	0.03%	0.010%
271	16.254	16.233	16.275	VV	362	6567	0.08%	0.024%
272	16.294	16.275	16.318	VV	563	8645	0.11%	0.031%
273	16.342	16.318	16.374	VV	211	3380	0.04%	0.012%
274	16.411	16.374	16.423	PV	152	3055	0.04%	0.011%
275	16.479	16.423	16.517	VV	616	13487	0.17%	0.049%
276	16.534	16.517	16.571	VV	237	3616	0.04%	0.013%
277	16.610	16.571	16.637	VV	142	3275	0.04%	0.012%
278	16.651	16.637	16.697	VV	131	3106	0.04%	0.011%
279	16.709	16.697	16.732	VV	82	1027	0.01%	0.004%
280	16.773	16.732	16.804	VV	429	10183	0.13%	0.037%
281	16.809	16.804	16.830	VV	145	2043	0.03%	0.007%
282	16.860	16.830	16.887	VV	1063	16903	0.21%	0.061%
283	16.916	16.887	16.970	VV	1230	34333	0.42%	0.125%
284	16.977	16.970	17.018	VV	450	9161	0.11%	0.033%
285	17.029	17.018	17.055	VV	281	4773	0.06%	0.017%

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286	17.070	17.055	17.097	VV	195	4087	0.05%	0.015%
287	17.128	17.097	17.149	VV	366	8038	0.10%	0.029%
288	17.157	17.149	17.190	VV	243	4783	0.06%	0.017%
289	17.245	17.190	17.268	VV	852	19929	0.25%	0.072%
290	17.295	17.268	17.333	VV	2391	33943	0.42%	0.123%
291	17.349	17.333	17.410	VV	215	5450	0.07%	0.020%
292	17.439	17.410	17.462	PV	136	3162	0.04%	0.011%
293	17.518	17.462	17.547	VV	623	10711	0.13%	0.039%
294	17.568	17.547	17.605	VV	519	8786	0.11%	0.032%
295	17.698	17.605	17.737	VV	821	20023	0.25%	0.073%
296	17.799	17.737	17.835	VV	344	11169	0.14%	0.041%
297	17.895	17.835	17.943	VV	229	9436	0.12%	0.034%
298	17.970	17.943	18.004	VV	192	4750	0.06%	0.017%
299	18.137	18.004	18.167	VV	1375	28335	0.35%	0.103%
300	18.201	18.167	18.215	PV	149	2733	0.03%	0.010%
301	18.226	18.215	18.235	VV	150	1378	0.02%	0.005%
302	18.314	18.235	18.330	VV	225	8515	0.11%	0.031%
303	18.355	18.330	18.377	VV	139	2787	0.03%	0.010%
304	18.418	18.377	18.444	PV	410	7656	0.09%	0.028%
305	18.484	18.444	18.507	VV	425	8168	0.10%	0.030%
306	18.561	18.507	18.590	VV	1469	26685	0.33%	0.097%
307	18.664	18.590	18.674	VV	237	7629	0.09%	0.028%
308	18.699	18.674	18.722	VV	222	3938	0.05%	0.014%
309	18.785	18.722	18.797	PV	190	2493	0.03%	0.009%
310	18.831	18.797	18.842	PV	100	1882	0.02%	0.007%

Sum of corrected areas: 27513724

Aromatic EPH 092425.M Tue Sep 30 01:31:20 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 916		Date Received:		
Client Sample ID:	PB169879TB		SDG No.:	Q3177	
Lab Sample ID:	PB169879TB		Matrix:	water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056075.D	1		09/30/25	FE092925AL

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.28	U	8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	13.5	U	13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	8.34	U	8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	23.8	U	23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.6		40 - 140	67%	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:	PB169879TB	Acq On:	30 Sep 2025 07:06
Client Sample ID:	PB169879TB	Operator:	YP\AJ
Data file:	FE056075.D	Misc:	
Instrument:	FID_E	ALS Vial:	44
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.315	6.946	0	0	300	ug/ml
Aliphatic C12-C16	6.947	10.396	0	0	200	ug/ml
Aliphatic C16-C21	10.397	13.773	0	0	300	ug/ml
Aliphatic C21-C28	13.774	17.443	0	0	400	ug/ml
Aliphatic C28-C40	17.444	22.449	0	0	600	ug/ml
Aliphatic EPH	3.315	22.449	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.511	13.511	4690622	33.61		ug/ml
Aliphatic C9-C28	3.315	17.443	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056075.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 07:06
Operator : YP\AJ
Sample : PB169879TB
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB169879TB

Integration File: autoint1.e
Quant Time: Sep 30 08:10:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.511	4690622	33.609 ug/ml
Spiked Amount 50.000		Recovery = 67.22%	
Target Compounds			

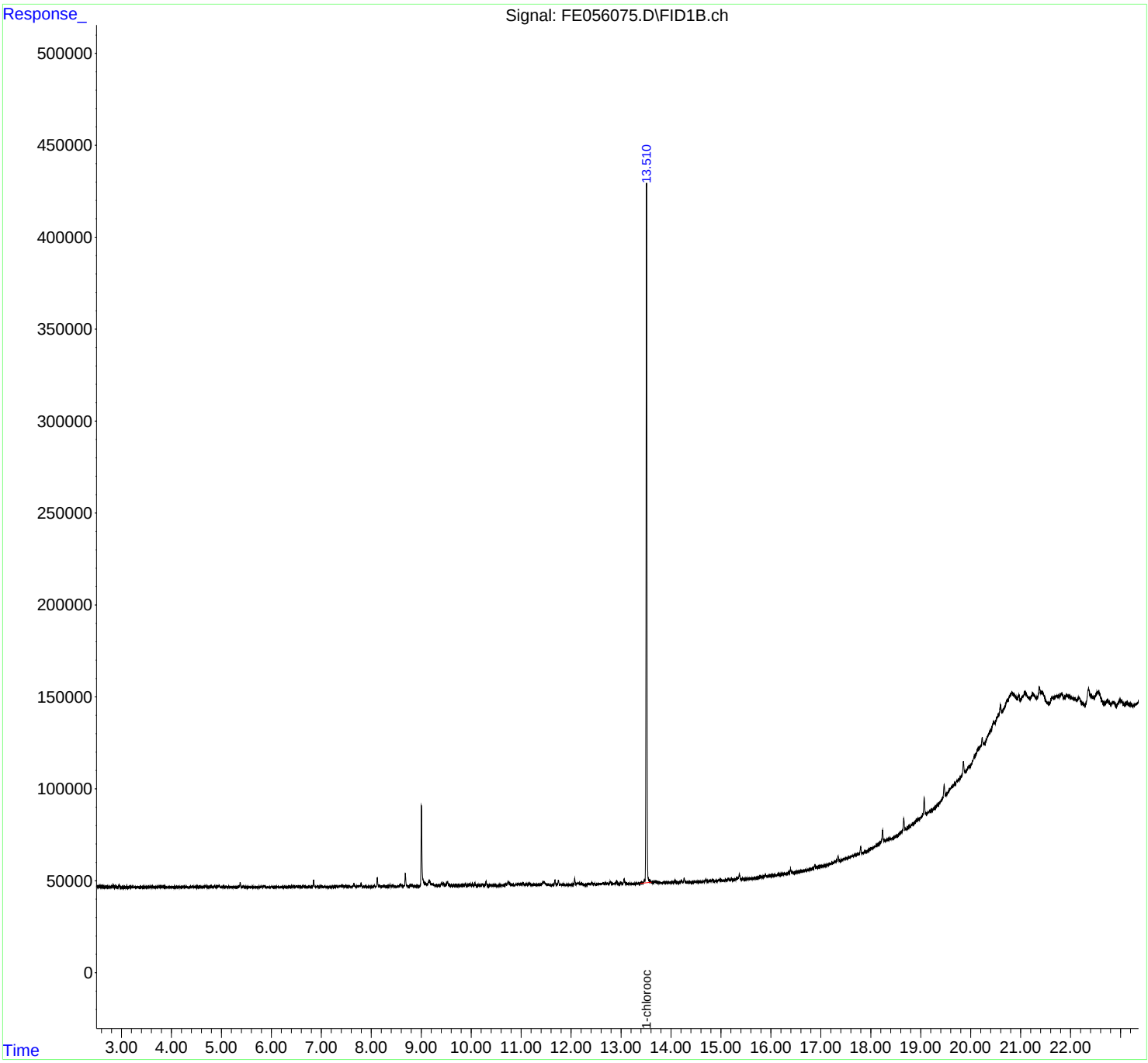
(f)=RT Delta > 1/2 Window (m)=manual int.

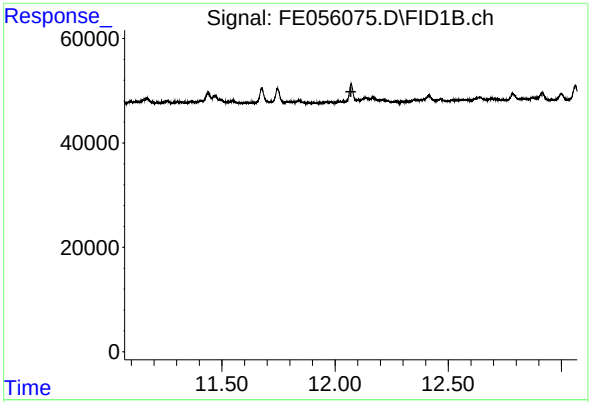
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056075.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 07:06
Operator : YP\AJ
Sample : PB169879TB
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB169879TB

Integration File: autoint1.e
Quant Time: Sep 30 08:10:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

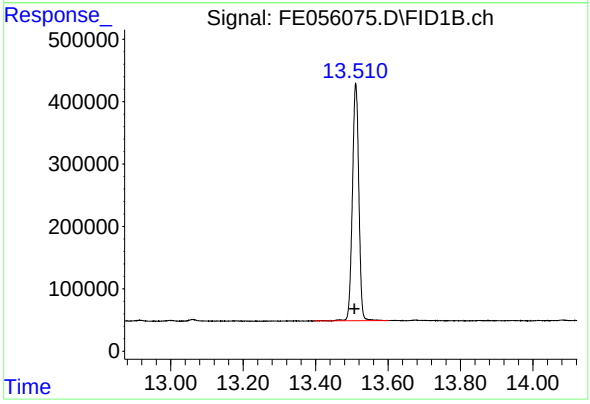




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.070 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
PB169879TB



#12 1-chlorooctadecane (SURR)

R.T.: 13.511 min
Delta R.T.: 0.004 min
Response: 4690622
Conc: 33.61 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056075.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 07:06
Sample : PB169879TB
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.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	13.511	13.393	13.602	BB	380082	4690622	100.00%	100.000%

Sum of corrected areas: 4690622

Aliphatic EPH 092425.M Tue Sep 30 08:14:46 2025

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 916		Date Received:		
Client Sample ID:	PB169879TB		SDG No.:	Q3177	
Lab Sample ID:	PB169879TB		Matrix:	water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016472.D	1		09/29/25	FF092925AR

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	2.07	U	2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	4.26	U	4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	8.27	U	8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	23.8	U	23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	48.0		40 - 140	96%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	43.2		40 - 140	86%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.9		40 - 140	78%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB169879TB	Acq On:	29 Sep 2025 17:35
Client Sample ID:	PB169879TB	Operator:	YP\AJ
Data file:	FF016472.D	Misc:	
Instrument:	FID_F	ALS Vial:	83
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.521	6.397	0	0	200	ug/ml
Aromatic C12-C16	6.398	9.101	0	0	300	ug/ml
Aromatic C16-C21	9.102	13.420	0	0	500	ug/ml
Aromatic C21-C36	13.421	18.876	0	0	800	ug/ml
Aromatic EPH	4.521	18.876	0	0		ug/ml
2-Bromonaphthalene (SURR)	8.027	8.027	6015712	48.02		ug/ml
2-Flurobiphenyl (SURR)	8.902	8.902	3646317	43.23		ug/ml
ortho-Terphenyl (SURR)	11.971	11.971	5934502	38.93		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016472.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 17:35
Operator : YP\AJ
Sample : PB169879TB
Misc :
ALS Vial : 83 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB169879TB

Integration File: autoint1.e
Quant Time: Sep 30 01:04:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
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...	8.027	6015712	48.023 ug/ml
Spiked Amount 50.000		Recovery =	96.05%
6) S 2-Flurobiphenyl (SURR)	8.902	3646317	43.234 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	86.47%
11) S ortho-Terphenyl (SURR)	11.971	5934502	38.928 ug/ml
Spiked Amount 50.000		Recovery =	77.86%
Target Compounds			

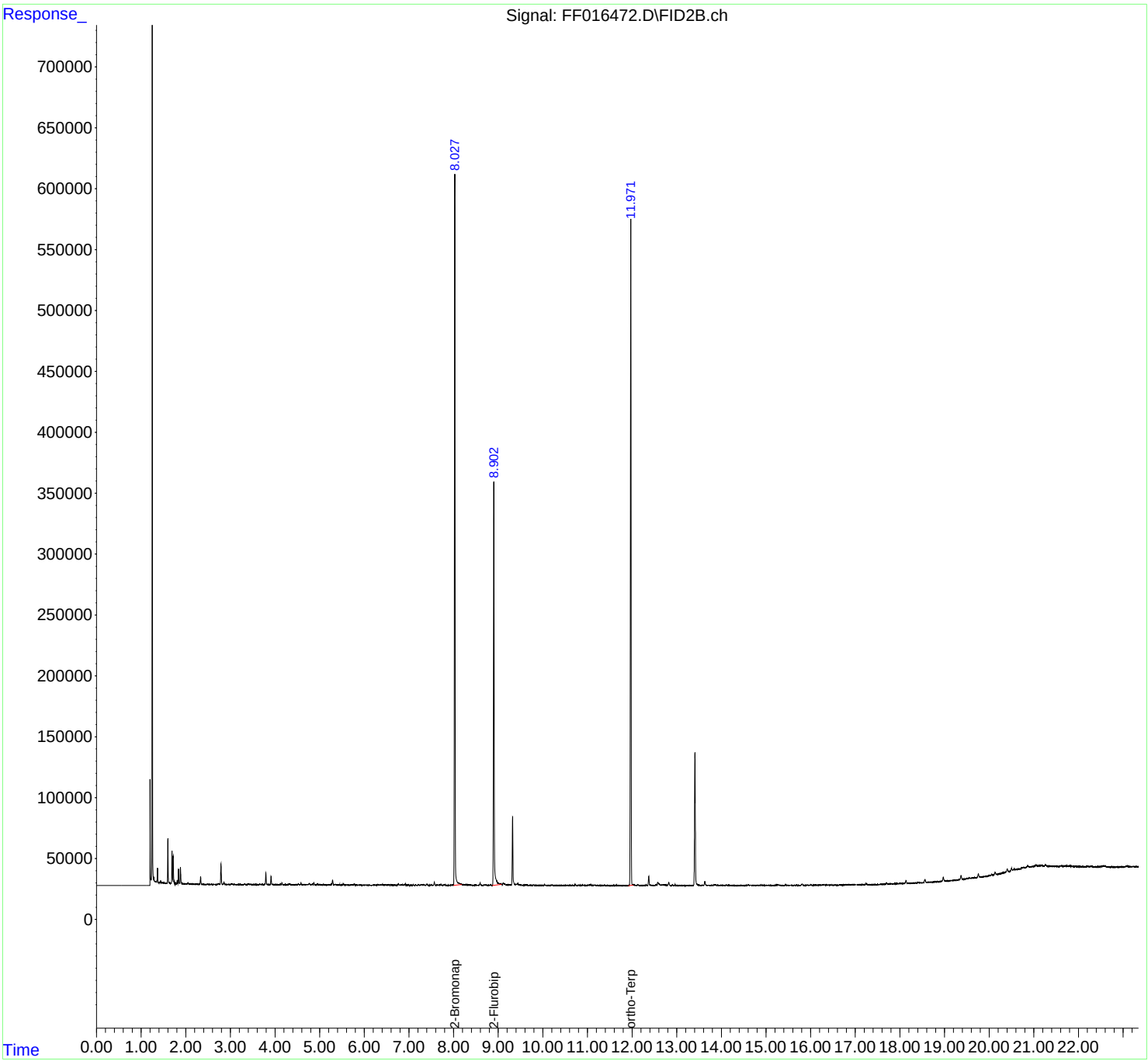
(f)=RT Delta > 1/2 Window (m)=manual int.

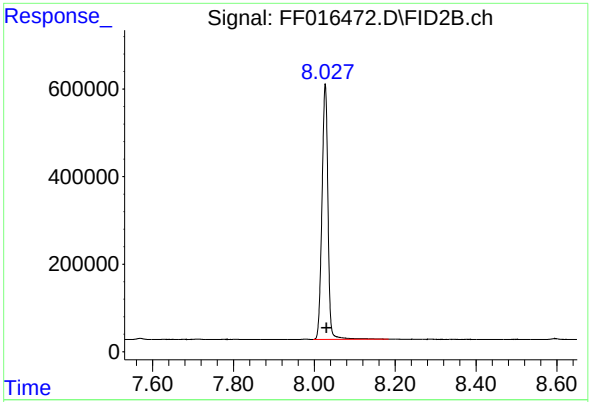
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016472.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 17:35
Operator : YP\AJ
Sample : PB169879TB
Misc :
ALS Vial : 83 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB169879TB

Integration File: autoint1.e
Quant Time: Sep 30 01:04:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

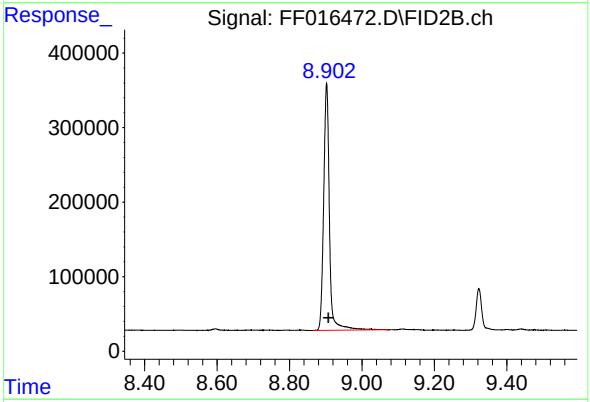




#4 2-Bromonaphthalene (SURR)

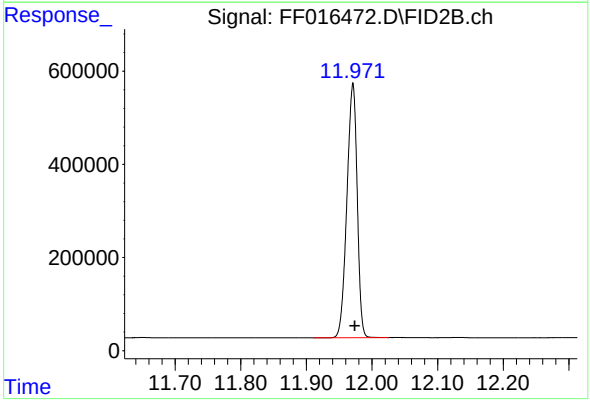
R.T.: 8.027 min
Delta R.T.: -0.004 min
Response: 6015712
Conc: 48.02 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169879TB



#6 2-Flurobiphenyl (SURR)

R.T.: 8.902 min
Delta R.T.: -0.005 min
Response: 3646317
Conc: 43.23 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.971 min
Delta R.T.: -0.003 min
Response: 5934502
Conc: 38.93 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016472.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 17:35
Sample : PB169879TB
Misc :
ALS Vial : 83 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	8.027	7.997	8.184	PB	584415	6015712	100.00%	38.571%
2	8.902	8.865	9.074	BB	331338	3646317	60.61%	23.379%
3	11.971	11.910	12.025	BB	544549	5934502	98.65%	38.050%
			Sum of corrected areas:			15596530		

Aromatic EPH 092425.M Tue Sep 30 01:28:23 2025

CALIBRATION SUMMARY

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Fax : 908 789 8922

Inital Calibration Report for SequenceID : FC092325AL

AreaCount

Parameter Range	FC069825.D	FC069826.D	FC069827.D	FC069828.D	FC069829.D	
Aliphatic C9-C12	36481160.000	19239018.000	8479995.000	3992675.000	2149948.000	
Aliphatic C12-C16	28357328.000	15079775.000	6707361.000	3059370.000	1701298.000	
Aliphatic C16-C21	46795550.000	25342238.000	11726291.000	5161303.000	3079937.000	
Aliphatic C21-C28	60973856.000	33612759.000	16071763.000	6886243.000	4223143.000	
Aliphatic C28-C40	63667378.000	35651403.000	17018918.000	7609564.000	4493535.000	
Aliphatic EPH	236275272.000	128925193.000	60004328.000	26709155.000	15647861.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	133523.2539996	6.773				
Aliphatic C12-C16	156673.343	7.634				
Aliphatic C16-C21	179548.8339996	11.281				
Aliphatic C21-C28	180941.7395	13.444				
Aliphatic C28-C40	128677.0379996	13.615				
Aliphatic EPH	152688.4519996	11.395				

Concentration

Parameter Range	FC069825.D	FC069826.D	FC069827.D	FC069828.D	FC069829.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	FC069825.D	FC069826.D	FC069827.D	FC069828.D	FC069829.D	
Aliphatic C9-C12	121603.866666	128260.120000	141333.250000	133089.166666	143329.866666	
Aliphatic C12-C16	141786.640000	150797.750000	167684.025000	152968.500000	170129.800000	
Aliphatic C16-C21	155985.166666	168948.253333	195438.183333	172043.433333	205329.133333	

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Inital Calibration Report for SequenceID : FC092325AL

Aliphatic C21-C28	152434.640000	168063.795000	200897.037500	172156.075000	211157.150000	
Aliphatic C28-C40	106112.296666	118838.010000	141824.316666	126826.066666	149784.500000	
Aliphatic EPH	131264.040000	143250.214444	166678.688888	148384.194444	173865.122222	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069825.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 10:31
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: Sep 23 12:42:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 12:38:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.674	16923747	91.704 ug/ml
Spiked Amount	50.000		Recovery =	183.41%
12) S	1-chlorooctadecane (S...	13.106	13748454	88.747 ug/ml
Spiked Amount	50.000		Recovery =	177.49%
	Target Compounds			
1) T	n-Nonane (C9)	3.406	11645434	92.785 ug/ml
2) T	n-Decane (C10)	4.479	12074558	92.369 ug/ml
3) T	A~Naphthalene (C11.7)	6.074	13540149	92.730 ug/ml
4) T	n-Dodecane (C12)	6.502	12761168	92.355 ug/ml
5) T	A~2-methylnaphthalene...	7.133	13632065	93.327 ug/ml
6) T	n-Tetradecane (C14)	8.300	13524594	92.132 ug/ml
7) T	n-Hexadecane (C16)	9.904	14832734	91.181 ug/ml
8) T	n-Octadecane (C18)	11.351	15683416	89.705 ug/ml
10) T	n-Eicosane (C20)	12.660	15587488	88.548 ug/ml
11) T	n-Heneicosane (C21)	13.273	15524646	88.075 ug/ml
13) T	n-Docosane (C22)	13.860	15568351	87.640 ug/ml
14) T	n-Tetracosane (C24)	14.964	15594950	86.702 ug/ml
15) T	n-Hexacosane (C26)	15.985	15226883	85.849 ug/ml
16) T	n-Octacosane (C28)	16.936	14583672	84.893 ug/ml
17) T	n-Tricontane (C30)	17.824	14231420	84.228 ug/ml
18) T	n-Dotriacontane (C32)	18.656	13051710	83.851 ug/ml
19) T	n-Tetratriacontane (C34)	19.440	11470497	84.662 ug/ml
20) T	n-Hexatriacontane (C36)	20.178	9384313	85.995 ug/ml
21) T	n-Octatriacontane (C38)	20.942	8180165	88.372 ug/ml
22) T	n-Tetracontane (C40)	21.900	7349273	89.608 ug/ml

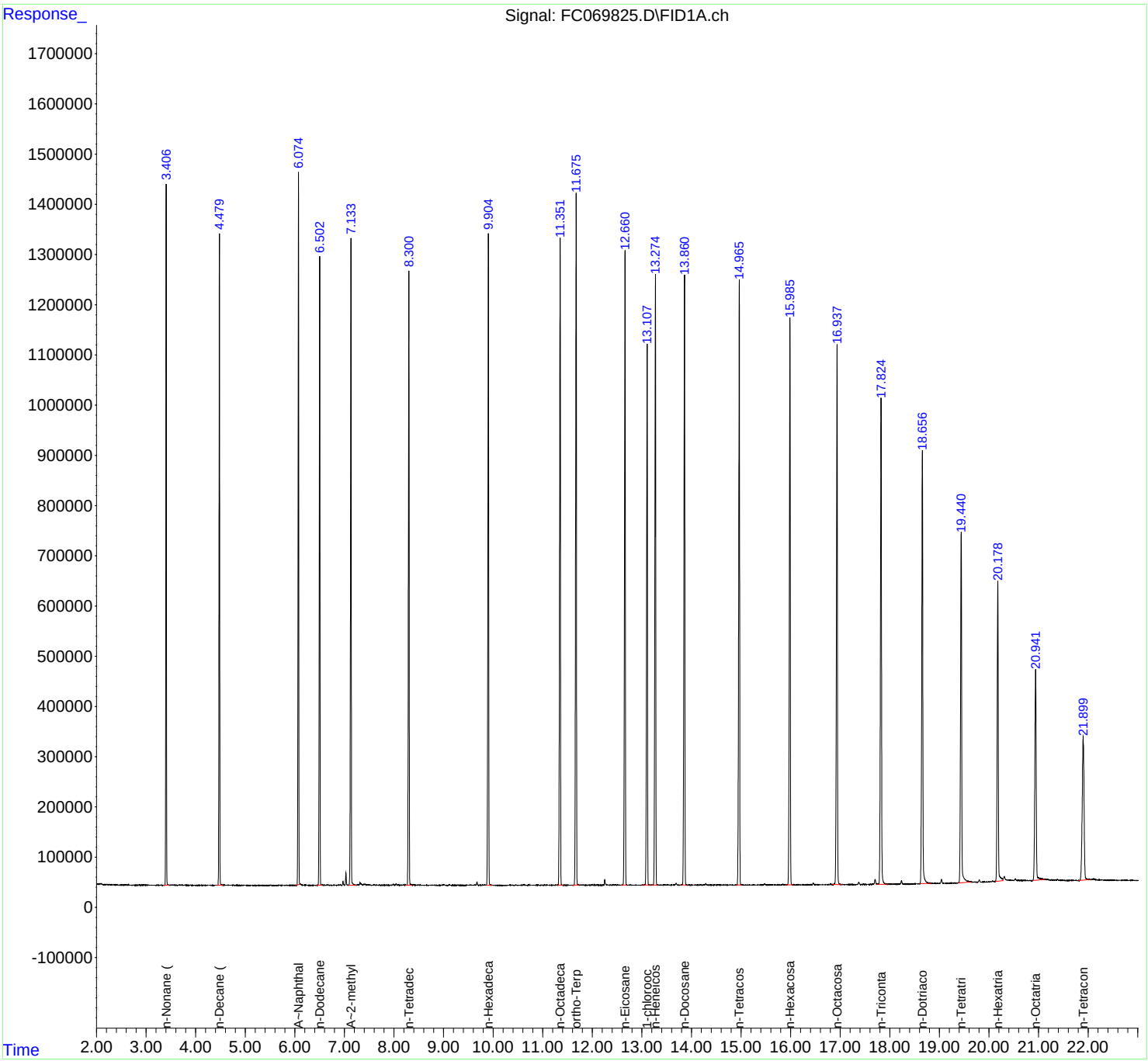
(f)=RT Delta > 1/2 Window (m)=manual int.

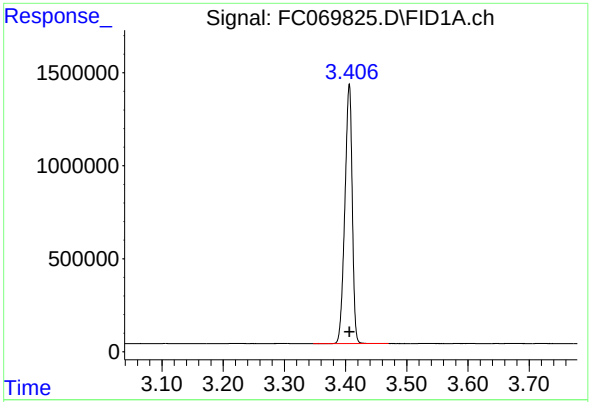
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069825.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 10:31
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Sep 23 12:42:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 12:38:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

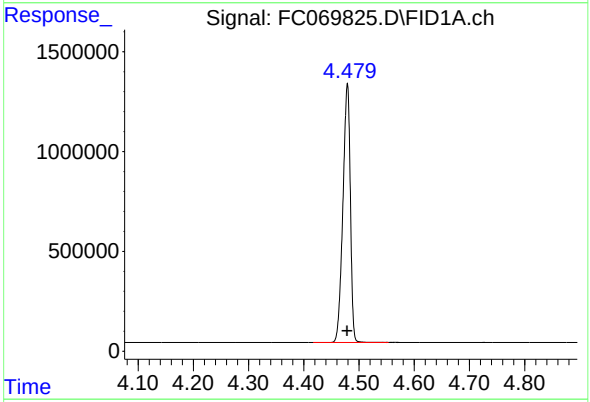




#1 n-Nonane (C9)

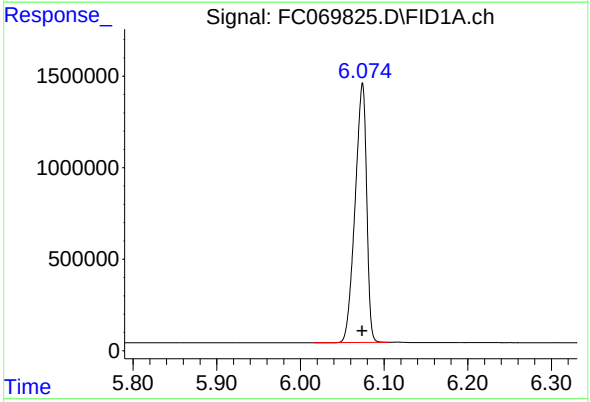
R.T.: 3.406 min
Delta R.T.: 0.000 min
Response: 11645434
Conc: 92.78 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



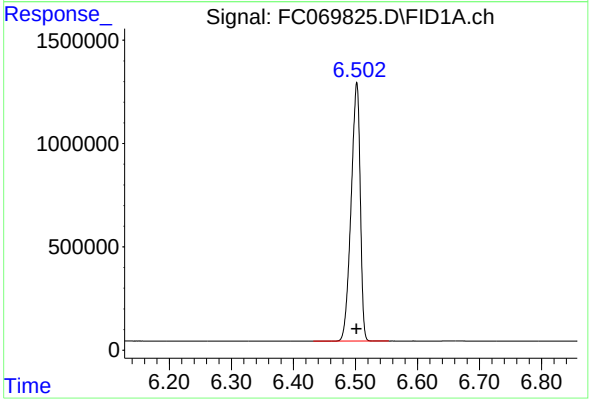
#2 n-Decane (C10)

R.T.: 4.479 min
Delta R.T.: 0.000 min
Response: 12074558
Conc: 92.37 ug/ml



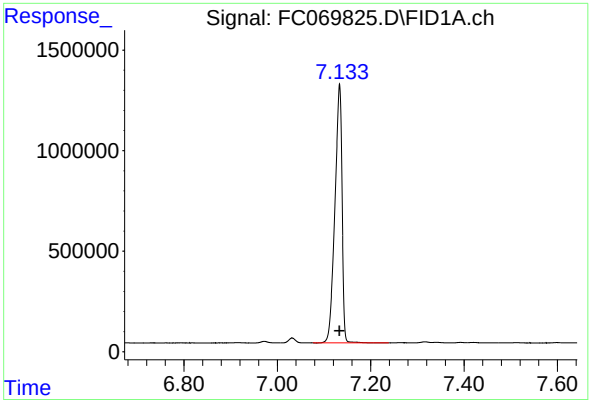
#3 A~Naphthalene (C11.7)

R.T.: 6.074 min
Delta R.T.: 0.000 min
Response: 13540149
Conc: 92.73 ug/ml



#4 n-Dodecane (C12)

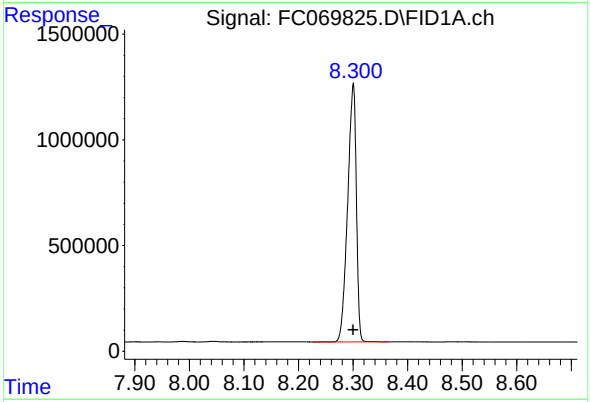
R.T.: 6.502 min
Delta R.T.: 0.000 min
Response: 12761168
Conc: 92.36 ug/ml



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

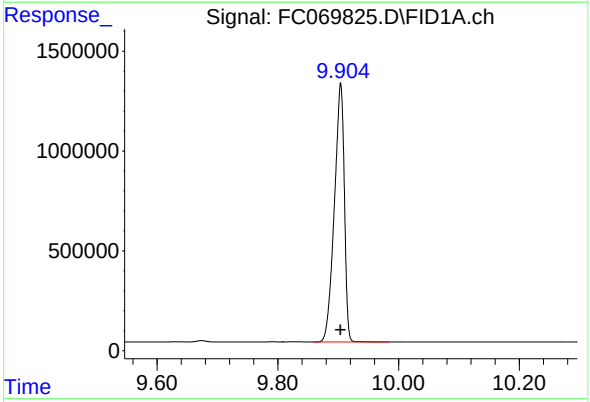
R.T.: 7.133 min
Delta R.T.: 0.000 min
Response: 13632065
Conc: 93.33 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



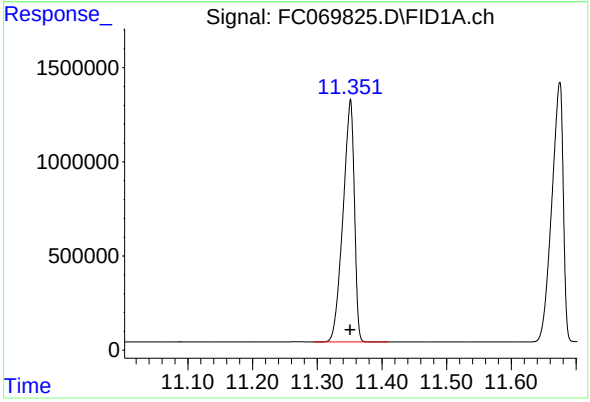
#6 n-Tetradecane (C14)

R.T.: 8.300 min
Delta R.T.: 0.000 min
Response: 13524594
Conc: 92.13 ug/ml



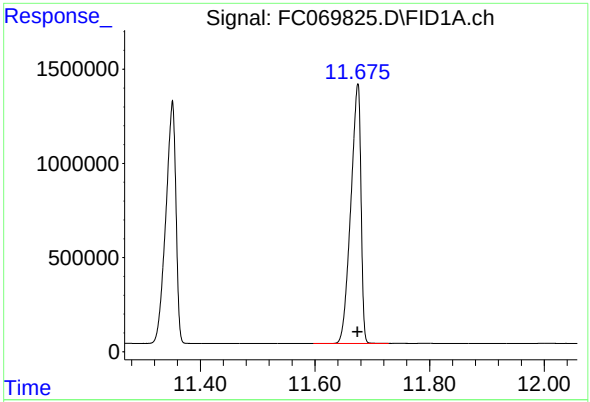
#7 n-Hexadecane (C16)

R.T.: 9.904 min
Delta R.T.: 0.000 min
Response: 14832734
Conc: 91.18 ug/ml



#8 n-Octadecane (C18)

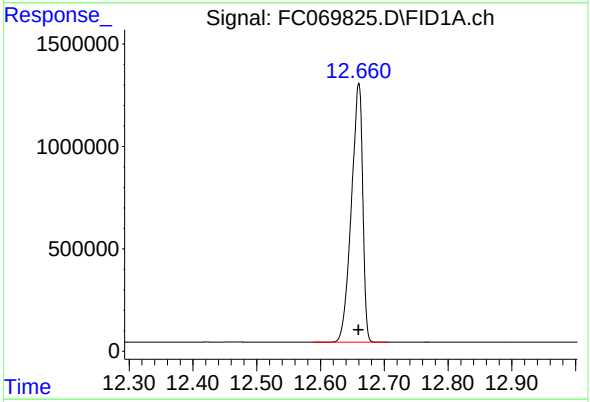
R.T.: 11.351 min
Delta R.T.: 0.000 min
Response: 15683416
Conc: 89.70 ug/ml



#9 ortho-Terphenyl (SURR)

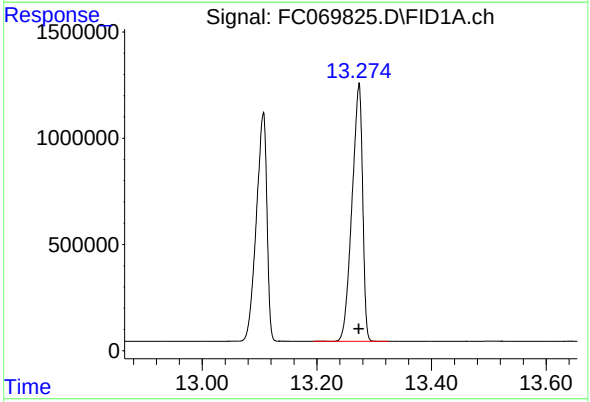
R.T.: 11.674 min
Delta R.T.: 0.000 min
Response: 16923747
Conc: 91.70 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



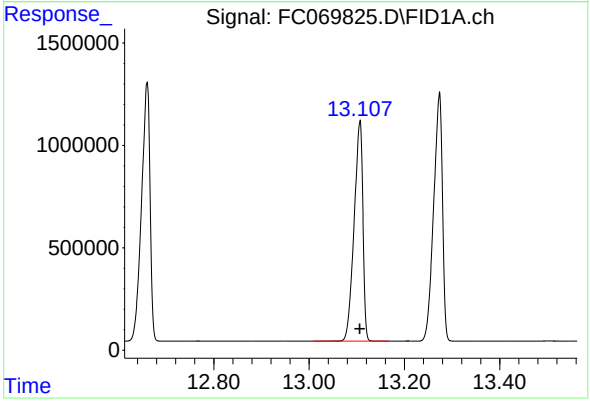
#10 n-Eicosane (C20)

R.T.: 12.660 min
Delta R.T.: 0.000 min
Response: 15587488
Conc: 88.55 ug/ml



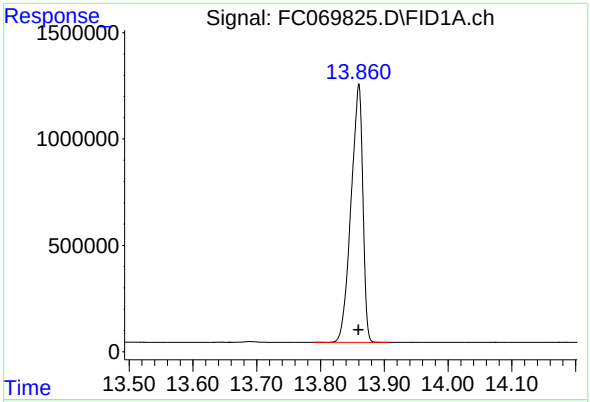
#11 n-Heneicosane (C21)

R.T.: 13.273 min
Delta R.T.: 0.000 min
Response: 15524646
Conc: 88.07 ug/ml



#12 1-chlorooctadecane (SURR)

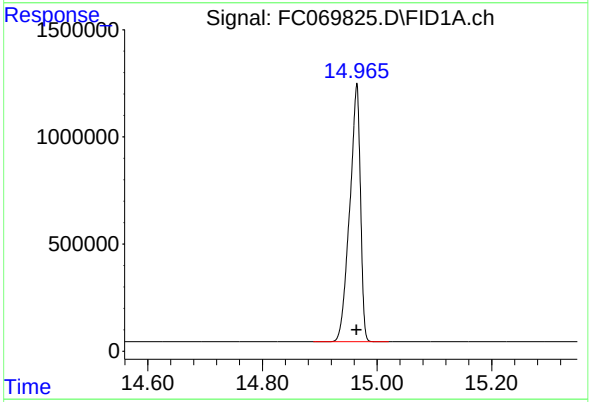
R.T.: 13.106 min
Delta R.T.: 0.000 min
Response: 13748454
Conc: 88.75 ug/ml



#13 n-Docosane (C22)

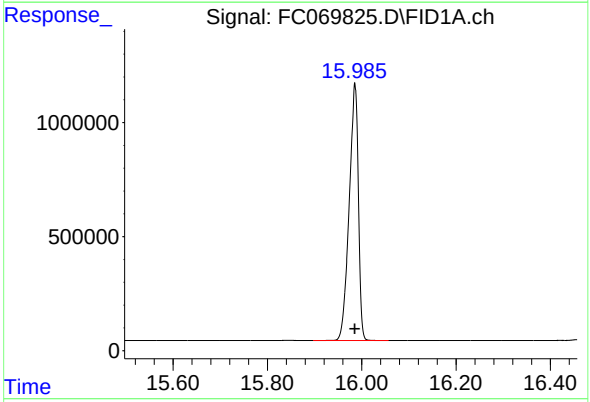
R.T.: 13.860 min
Delta R.T.: 0.000 min
Response: 15568351
Conc: 87.64 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



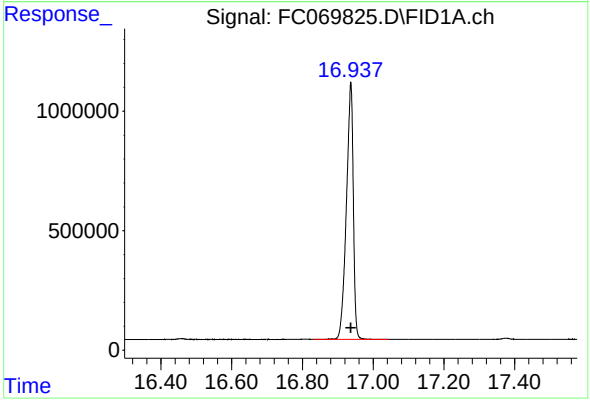
#14 n-Tetracosane (C24)

R.T.: 14.964 min
Delta R.T.: 0.000 min
Response: 15594950
Conc: 86.70 ug/ml



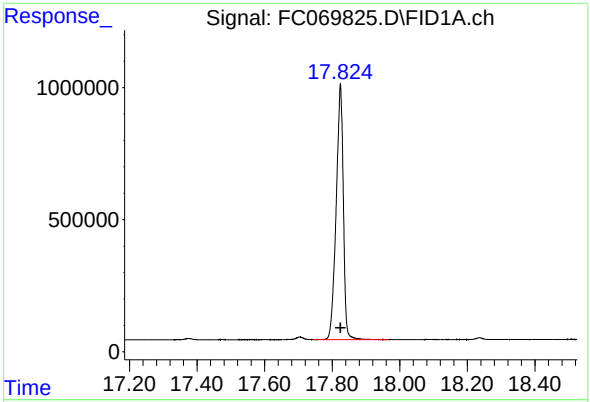
#15 n-Hexacosane (C26)

R.T.: 15.985 min
Delta R.T.: 0.000 min
Response: 15226883
Conc: 85.85 ug/ml



#16 n-Octacosane (C28)

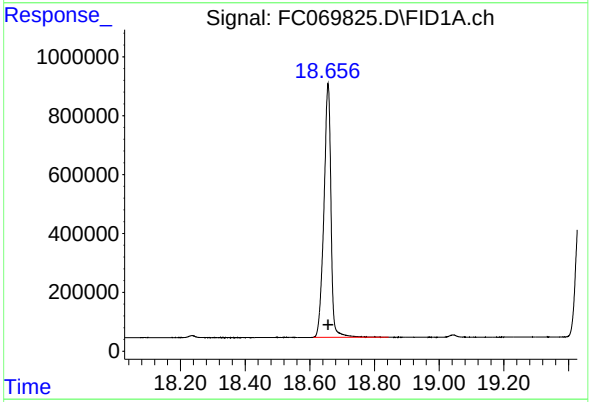
R.T.: 16.936 min
Delta R.T.: 0.000 min
Response: 14583672
Conc: 84.89 ug/ml



#17 n-Tricontane (C30)

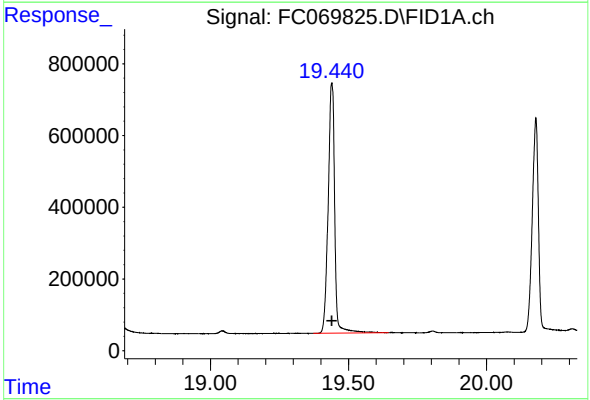
R.T.: 17.824 min
Delta R.T.: 0.000 min
Response: 14231420
Conc: 84.23 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



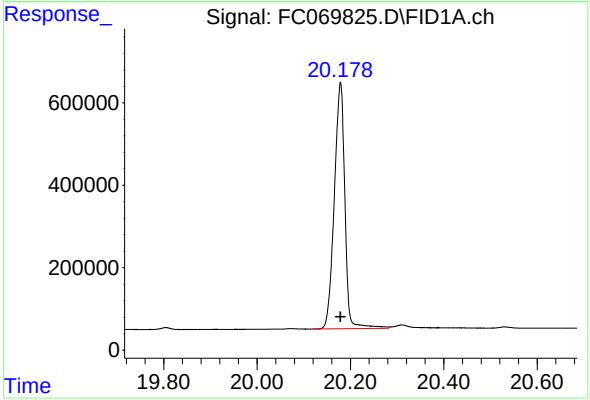
#18 n-Dotriacontane (C32)

R.T.: 18.656 min
Delta R.T.: 0.000 min
Response: 13051710
Conc: 83.85 ug/ml



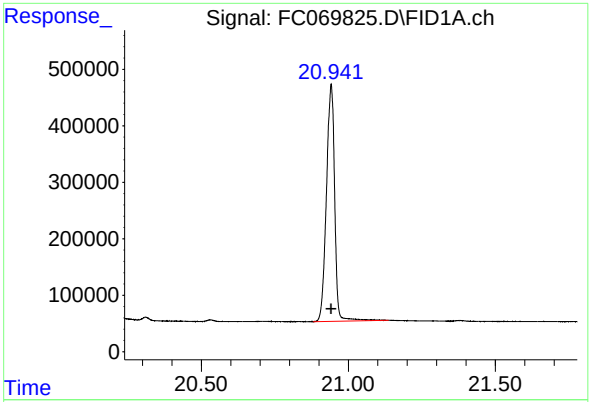
#19 n-Tetratriacontane (C34)

R.T.: 19.440 min
Delta R.T.: 0.000 min
Response: 11470497
Conc: 84.66 ug/ml



#20 n-Hexatriacontane (C36)

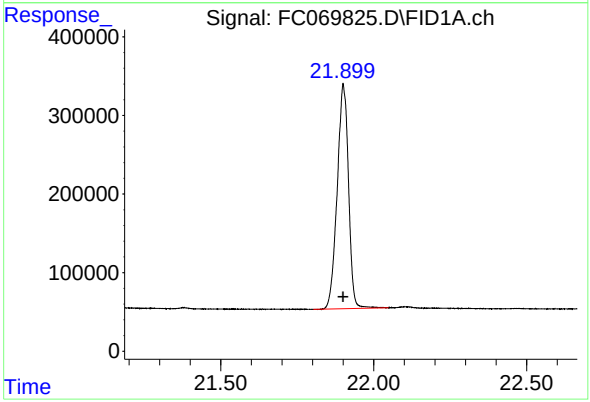
R.T.: 20.178 min
Delta R.T.: 0.000 min
Response: 9384313
Conc: 85.99 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.942 min
Delta R.T.: 0.000 min
Response: 8180165
Conc: 88.37 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 7349273
Conc: 89.61 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069825.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 10:31
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 092325.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	3.406	3.347	3.470	BB	1388469	11645434	68.81%	3.959%
2	4.479	4.417	4.554	BB	1296834	12074558	71.35%	4.105%
3	6.074	6.015	6.105	BV	1413198	13540149	80.01%	4.604%
4	6.502	6.432	6.554	BB	1254435	12761168	75.40%	4.339%
5	7.133	7.077	7.239	BB	1296551	13632065	80.55%	4.635%
6	8.300	8.227	8.365	BB	1226085	13524594	79.91%	4.598%
7	9.904	9.859	9.984	BB	1297853	14832734	87.64%	5.043%
8	11.351	11.294	11.410	BB	1272818	15683416	92.67%	5.332%
9	11.674	11.597	11.729	BB	1371178	16923747	100.00%	5.754%
10	12.660	12.589	12.707	BB	1266293	15587488	92.10%	5.300%
11	13.106	13.009	13.167	BB	1066658	13748454	81.24%	4.674%
12	13.273	13.194	13.325	BB	1217295	15524646	91.73%	5.278%
13	13.860	13.789	13.907	BB	1221304	15568351	91.99%	5.293%
14	14.964	14.889	15.020	BB	1190857	15594950	92.15%	5.302%
15	15.985	15.897	16.057	BB	1128033	15226883	89.97%	5.177%
16	16.936	16.830	17.044	BB	1078876	14583672	86.17%	4.958%
17	17.824	17.744	17.967	VB	967028	14231420	84.09%	4.839%
18	18.656	18.610	18.844	BB	861293	13051710	77.12%	4.438%
19	19.440	19.372	19.645	BB	698627	11470497	67.78%	3.900%
20	20.178	20.120	20.282	BV	598676	9384313	55.45%	3.191%
21	20.942	20.880	21.137	BB	420473	8180165	48.34%	2.781%
22	21.900	21.802	22.049	BB	286095	7349273	43.43%	2.499%

Sum of corrected areas: 294119687

Aliphatic EPH 092325.M Tue Sep 23 15:05:00 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069826.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 11:16
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: Sep 23 12:46:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 12:38:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.667	8965638	49.045 ug/ml
Spiked Amount	50.000		Recovery =	98.09%
12)	S 1-chlorooctadecane (S...	13.100	7425577	48.602 ug/ml
Spiked Amount	50.000		Recovery =	97.20%
	Target Compounds			
1)	T n-Nonane (C9)	3.403	6152543	49.343 ug/ml
2)	T n-Decane (C10)	4.475	6373820	49.166 ug/ml
3)	T A~Naphthalene (C11.7)	6.069	7155979	49.334 ug/ml
4)	T n-Dodecane (C12)	6.498	6712655	49.045 ug/ml
5)	T A~2-methylnaphthalene...	7.128	7133568	49.219 ug/ml
6)	T n-Tetradecane (C14)	8.295	7146968	49.116 ug/ml
7)	T n-Hexadecane (C16)	9.899	7932807	49.170 ug/ml
8)	T n-Octadecane (C18)	11.344	8462910	48.926 ug/ml
10)	T n-Eicosane (C20)	12.654	8449007	48.646 ug/ml
11)	T n-Heneicosane (C21)	13.266	8430321	48.530 ug/ml
13)	T n-Docosane (C22)	13.853	8470750	48.432 ug/ml
14)	T n-Tetracosane (C24)	14.957	8543618	48.305 ug/ml
15)	T n-Hexacosane (C26)	15.980	8419910	48.285 ug/ml
16)	T n-Octacosane (C28)	16.929	8178481	48.379 ug/ml
17)	T n-Tricontane (C30)	17.819	8058251	48.438 ug/ml
18)	T n-Dotriacontane (C32)	18.651	7444649	48.531 ug/ml
19)	T n-Tetratriacontane (C34)	19.436	6495279	48.608 ug/ml
20)	T n-Hexatriacontane (C36)	20.174	5232913	48.616 ug/ml
21)	T n-Octatriacontane (C38)	20.935	4446700	48.675 ug/ml
22)	T n-Tetracontane (C40)	21.896	3973611	48.955 ug/ml

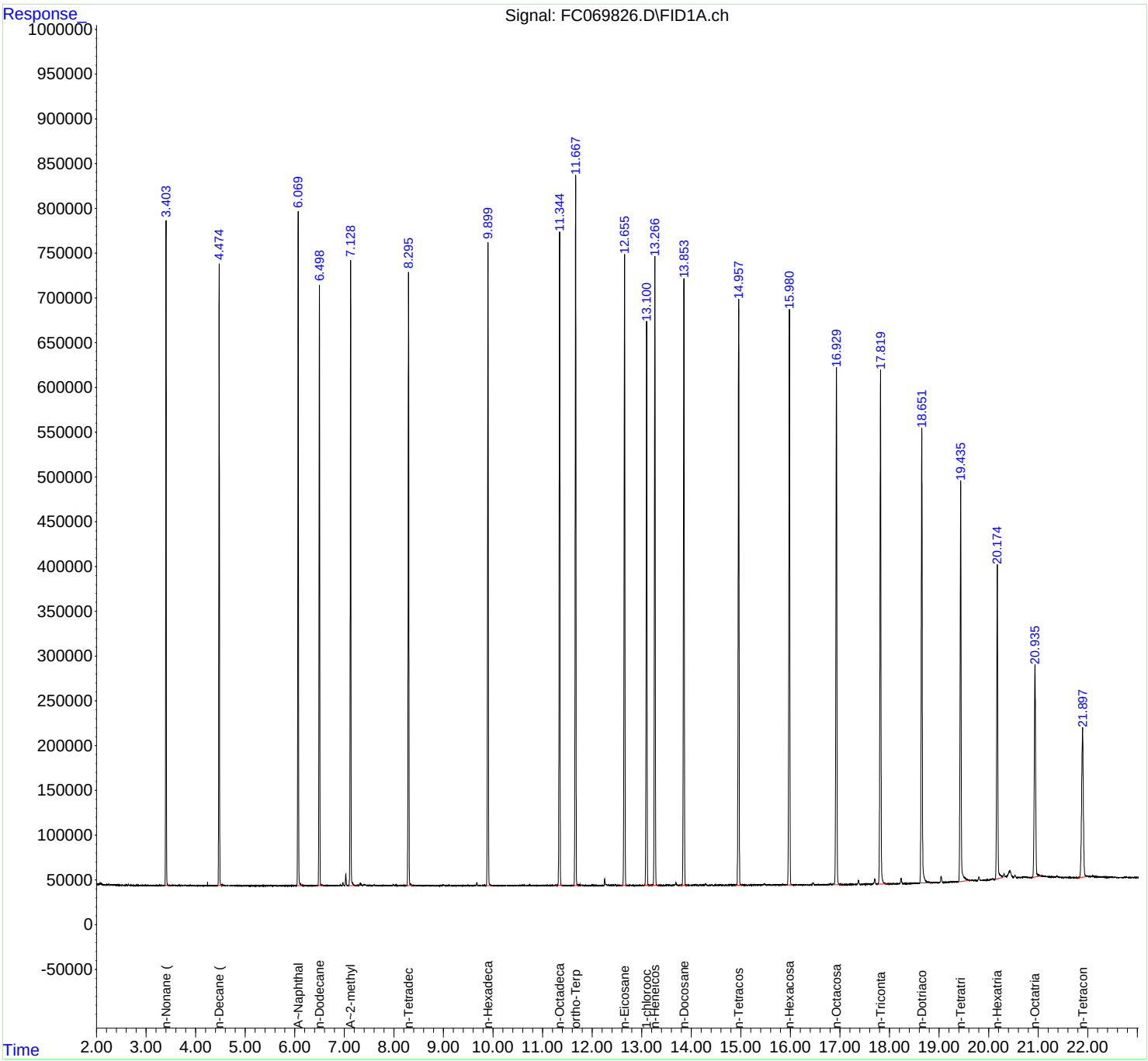
(f)=RT Delta > 1/2 Window (m)=manual int.

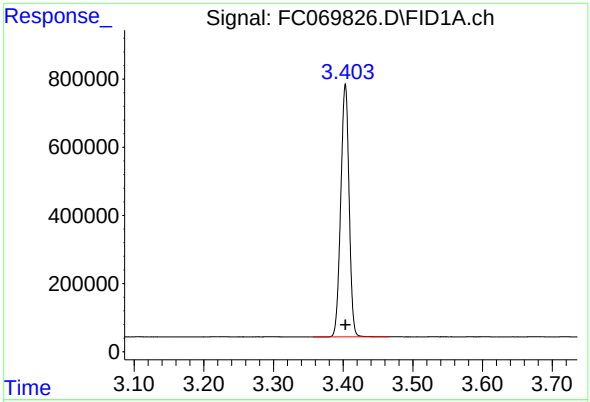
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069826.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 11:16
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 23 12:46:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 12:38:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

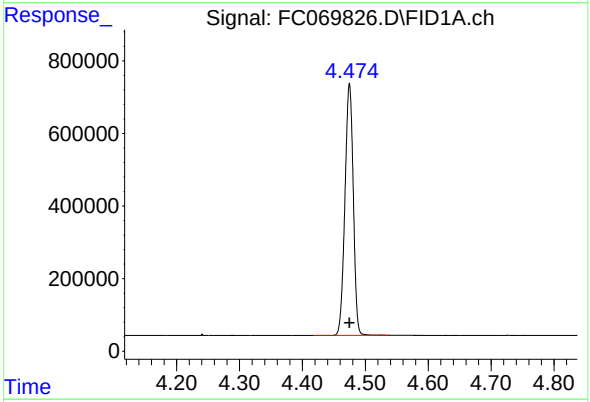




#1 n-Nonane (C9)

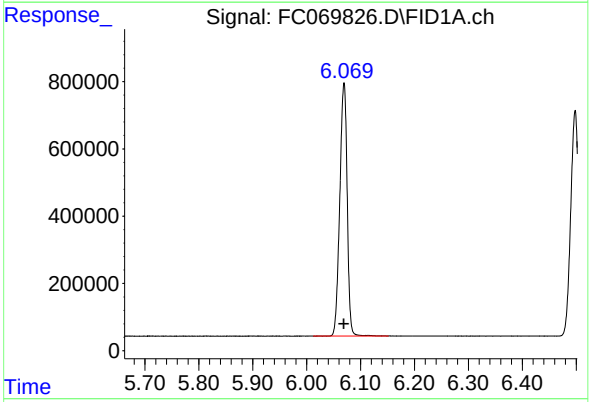
R.T.: 3.403 min
Delta R.T.: 0.000 min
Response: 6152543
Conc: 49.34 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



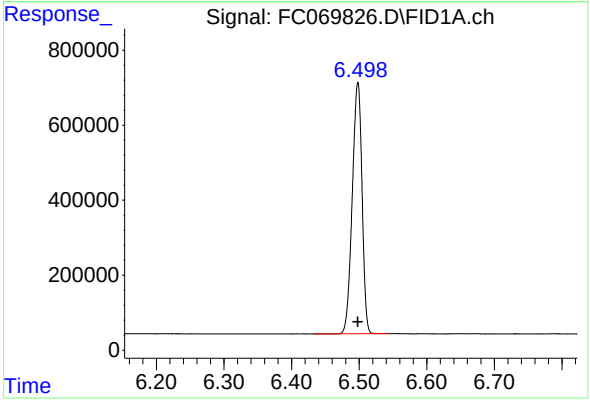
#2 n-Decane (C10)

R.T.: 4.475 min
Delta R.T.: 0.000 min
Response: 6373820
Conc: 49.17 ug/ml



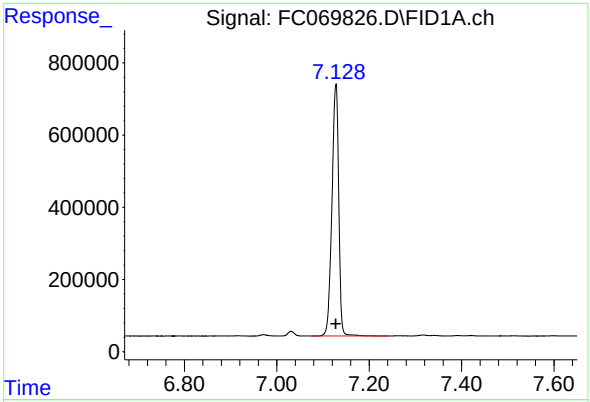
#3 A~Naphthalene (C11.7)

R.T.: 6.069 min
Delta R.T.: 0.000 min
Response: 7155979
Conc: 49.33 ug/ml



#4 n-Dodecane (C12)

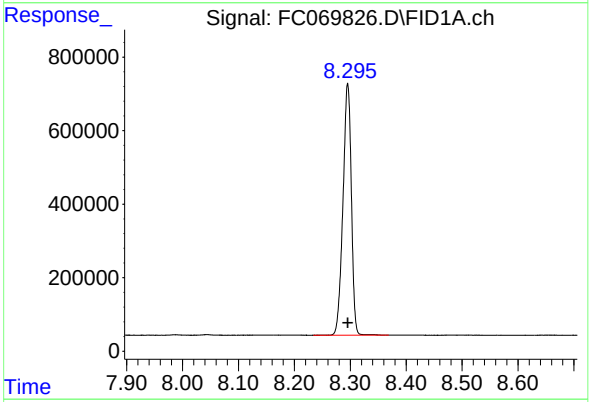
R.T.: 6.498 min
Delta R.T.: 0.000 min
Response: 6712655
Conc: 49.04 ug/ml



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

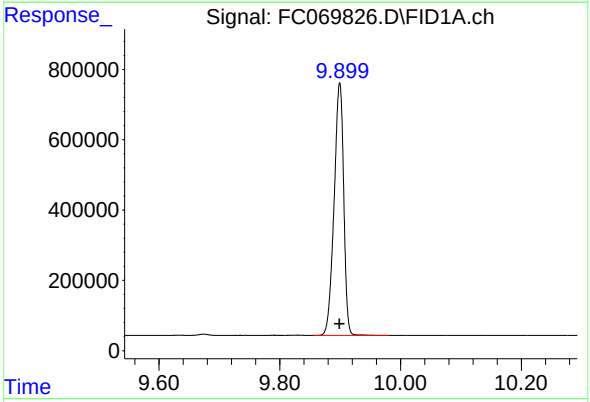
R.T.: 7.128 min
Delta R.T.: 0.000 min
Response: 7133568
Conc: 49.22 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



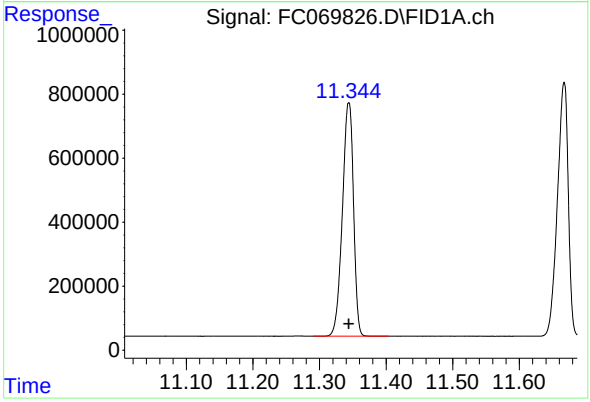
#6 n-Tetradecane (C14)

R.T.: 8.295 min
Delta R.T.: 0.000 min
Response: 7146968
Conc: 49.12 ug/ml



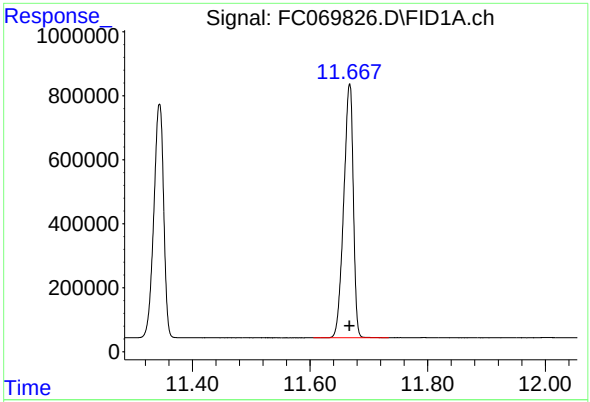
#7 n-Hexadecane (C16)

R.T.: 9.899 min
Delta R.T.: 0.000 min
Response: 7932807
Conc: 49.17 ug/ml



#8 n-Octadecane (C18)

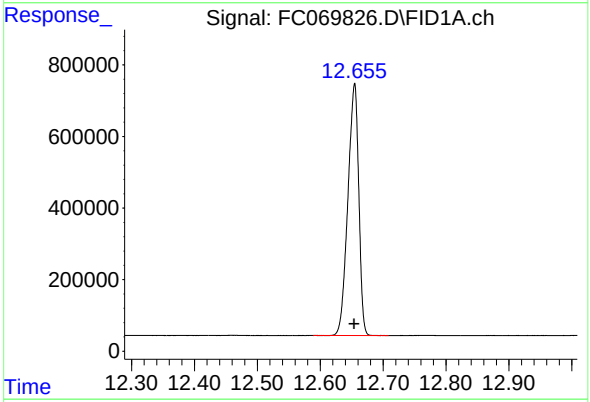
R.T.: 11.344 min
Delta R.T.: 0.000 min
Response: 8462910
Conc: 48.93 ug/ml



#9 ortho-Terphenyl (SURR)

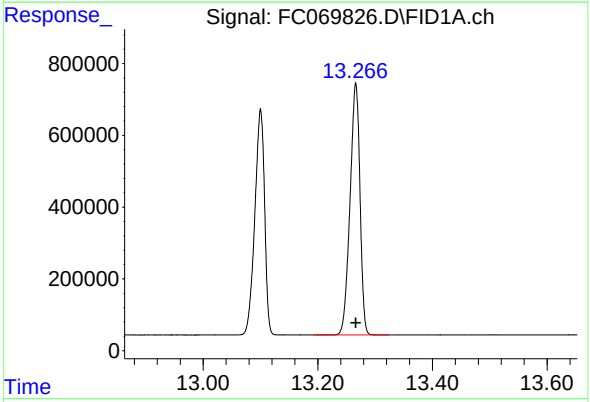
R.T.: 11.667 min
Delta R.T.: 0.000 min
Response: 8965638
Conc: 49.05 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



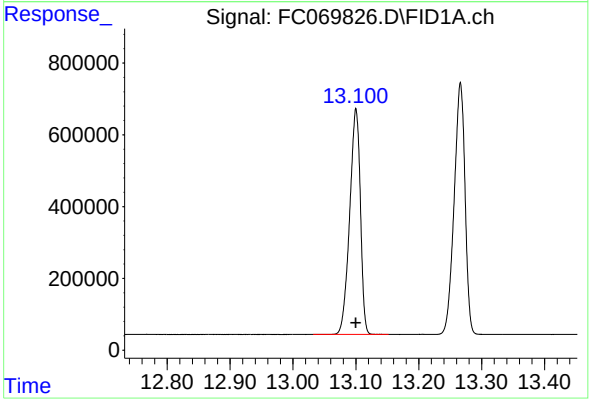
#10 n-Eicosane (C20)

R.T.: 12.654 min
Delta R.T.: 0.000 min
Response: 8449007
Conc: 48.65 ug/ml



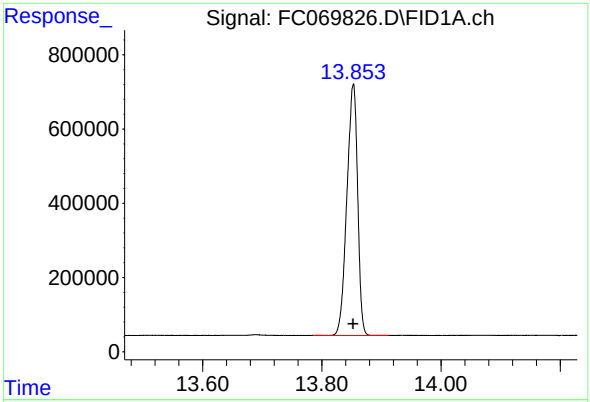
#11 n-Heneicosane (C21)

R.T.: 13.266 min
Delta R.T.: 0.000 min
Response: 8430321
Conc: 48.53 ug/ml



#12 1-chlorooctadecane (SURR)

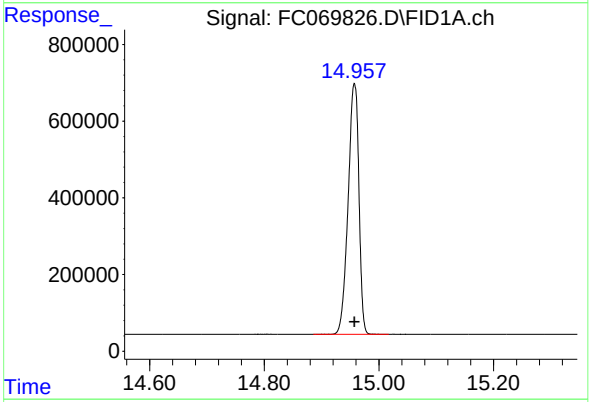
R.T.: 13.100 min
Delta R.T.: 0.000 min
Response: 7425577
Conc: 48.60 ug/ml



#13 n-Docosane (C22)

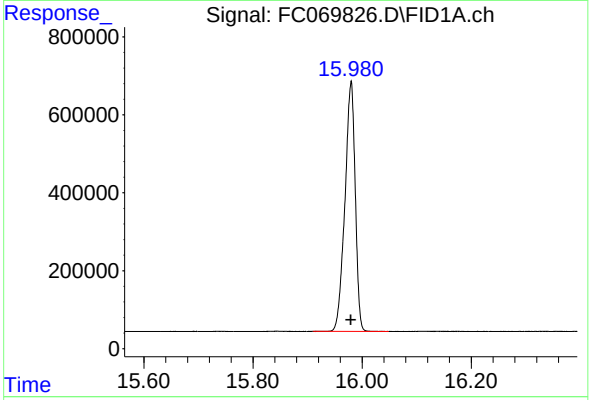
R.T.: 13.853 min
Delta R.T.: 0.000 min
Response: 8470750
Conc: 48.43 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



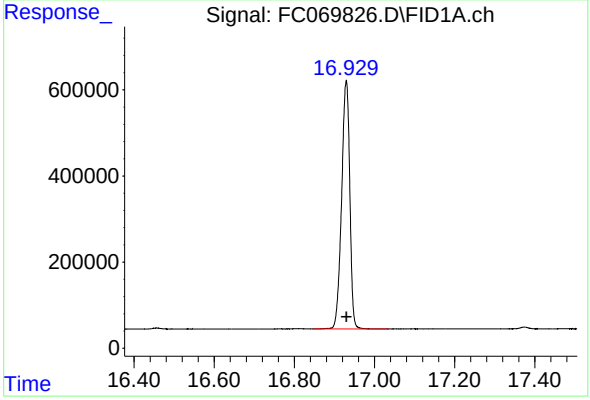
#14 n-Tetracosane (C24)

R.T.: 14.957 min
Delta R.T.: 0.000 min
Response: 8543618
Conc: 48.30 ug/ml



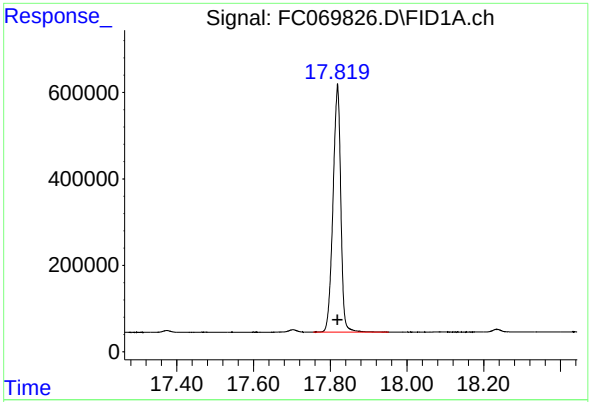
#15 n-Hexacosane (C26)

R.T.: 15.980 min
Delta R.T.: 0.000 min
Response: 8419910
Conc: 48.29 ug/ml



#16 n-Octacosane (C28)

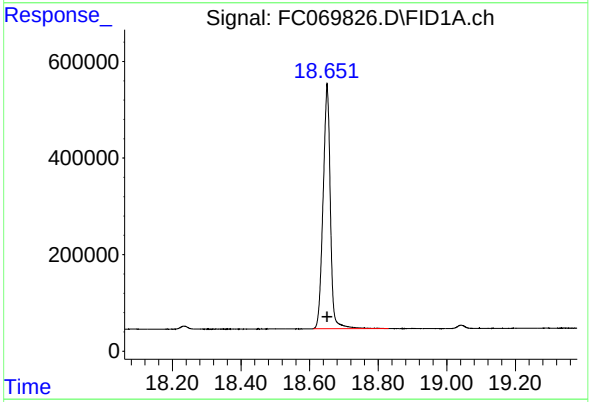
R.T.: 16.929 min
Delta R.T.: 0.000 min
Response: 8178481
Conc: 48.38 ug/ml



#17 n-Tricontane (C30)

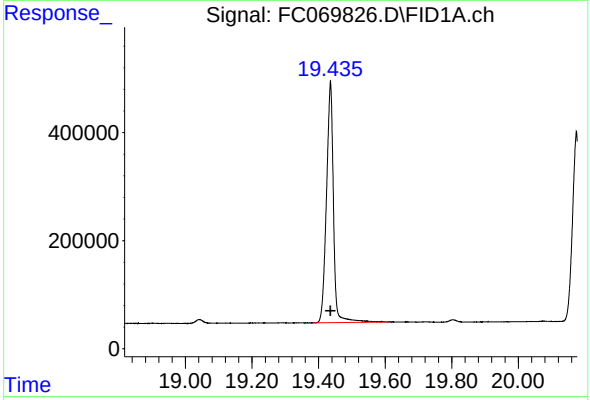
R.T.: 17.819 min
Delta R.T.: 0.000 min
Response: 8058251
Conc: 48.44 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



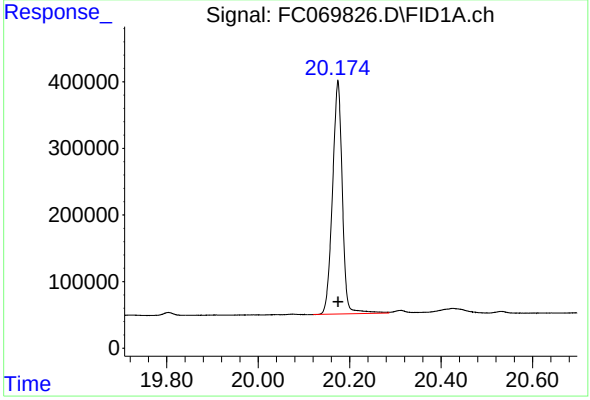
#18 n-Dotriacontane (C32)

R.T.: 18.651 min
Delta R.T.: 0.000 min
Response: 7444649
Conc: 48.53 ug/ml



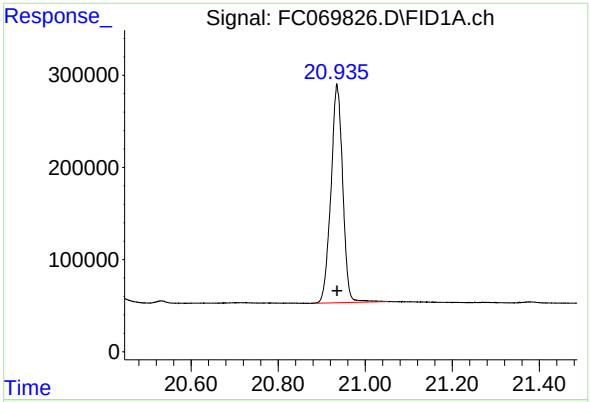
#19 n-Tetratriacontane (C34)

R.T.: 19.436 min
Delta R.T.: 0.000 min
Response: 6495279
Conc: 48.61 ug/ml



#20 n-Hexatriacontane (C36)

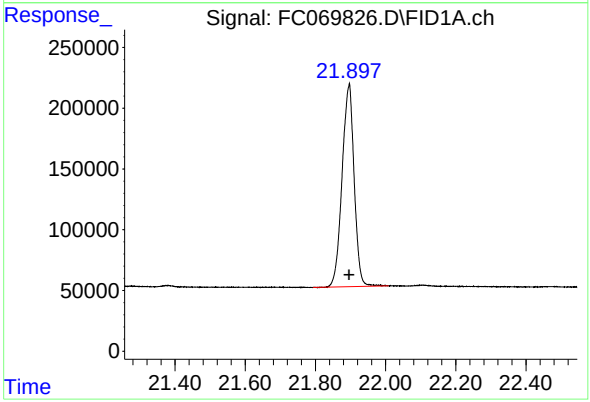
R.T.: 20.174 min
Delta R.T.: 0.000 min
Response: 5232913
Conc: 48.62 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.935 min
Delta R.T.: 0.000 min
Response: 4446700
Conc: 48.67 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.896 min
Delta R.T.: 0.000 min
Response: 3973611
Conc: 48.96 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069826.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 11:16
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 092325.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	3.403	3.357	3.465	BB	745051	6152543	68.62%	3.855%
2	4.475	4.417	4.537	BB	693786	6373820	71.09%	3.993%
3	6.069	6.012	6.152	BB	751105	7155979	79.82%	4.484%
4	6.498	6.432	6.544	BB	674503	6712655	74.87%	4.206%
5	7.128	7.079	7.242	BB	695935	7133568	79.57%	4.469%
6	8.295	8.234	8.369	BB	685059	7146968	79.72%	4.478%
7	9.899	9.855	9.980	BB	719336	7932807	88.48%	4.970%
8	11.344	11.290	11.404	BB	730677	8462910	94.39%	5.302%
9	11.667	11.605	11.734	BB	794180	8965638	100.00%	5.617%
10	12.654	12.589	12.709	BB	701289	8449007	94.24%	5.294%
11	13.100	13.032	13.152	BB	629941	7425577	82.82%	4.652%
12	13.266	13.192	13.324	BB	702135	8430321	94.03%	5.282%
13	13.853	13.785	13.912	BB	675901	8470750	94.48%	5.307%
14	14.957	14.885	15.017	BB	654442	8543618	95.29%	5.353%
15	15.980	15.910	16.049	BB	646597	8419910	93.91%	5.275%
16	16.929	16.847	17.035	BB	574977	8178481	91.22%	5.124%
17	17.819	17.755	17.952	BB	572820	8058251	89.88%	5.049%
18	18.651	18.610	18.830	BB	506372	7444649	83.04%	4.664%
19	19.436	19.384	19.610	BB	446121	6495279	72.45%	4.070%
20	20.174	20.120	20.285	BV	348797	5232913	58.37%	3.279%
21	20.935	20.880	21.054	BB	236642	4446700	49.60%	2.786%
22	21.896	21.794	22.009	BB	165691	3973611	44.32%	2.490%
			Sum of corrected areas:			159605955		

Aliphatic EPH 092325.M Tue Sep 23 15:04:15 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069827.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 12:02
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: Sep 23 12:38:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 12:38:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.661	3997190	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
12)	S 1-chlorooctadecane (S...	13.095	3447033	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1)	T n-Nonane (C9)	3.401	2691320	20.000 ug/ml
2)	T n-Decane (C10)	4.472	2813927	20.000 ug/ml
3)	T A~Naphthalene (C11.7)	6.066	3132652	20.000 ug/ml
4)	T n-Dodecane (C12)	6.495	2974748	20.000 ug/ml
5)	T A~2-methylnaphthalene...	7.124	3116315	20.000 ug/ml
6)	T n-Tetradecane (C14)	8.292	3166933	20.000 ug/ml
7)	T n-Hexadecane (C16)	9.895	3540428	20.000 ug/ml
8)	T n-Octadecane (C18)	11.339	3856654	20.000 ug/ml
10)	T n-Eicosane (C20)	12.649	3923913	20.000 ug/ml
11)	T n-Heneicosane (C21)	13.262	3945724	20.000 ug/ml
13)	T n-Docosane (C22)	13.849	3991937	20.000 ug/ml
14)	T n-Tetracosane (C24)	14.953	4075708	20.000 ug/ml
15)	T n-Hexacosane (C26)	15.975	4049330	20.000 ug/ml
16)	T n-Octacosane (C28)	16.925	3954788	20.000 ug/ml
17)	T n-Tricontane (C30)	17.814	3912238	20.000 ug/ml
18)	T n-Dotriacontane (C32)	18.647	3615771	20.000 ug/ml
19)	T n-Tetratriacontane (C34)	19.430	3125338	20.000 ug/ml
20)	T n-Hexatriacontane (C36)	20.171	2488192	20.000 ug/ml
21)	T n-Octatriacontane (C38)	20.931	2066589	20.000 ug/ml
22)	T n-Tetracontane (C40)	21.893	1810790	20.000 ug/ml

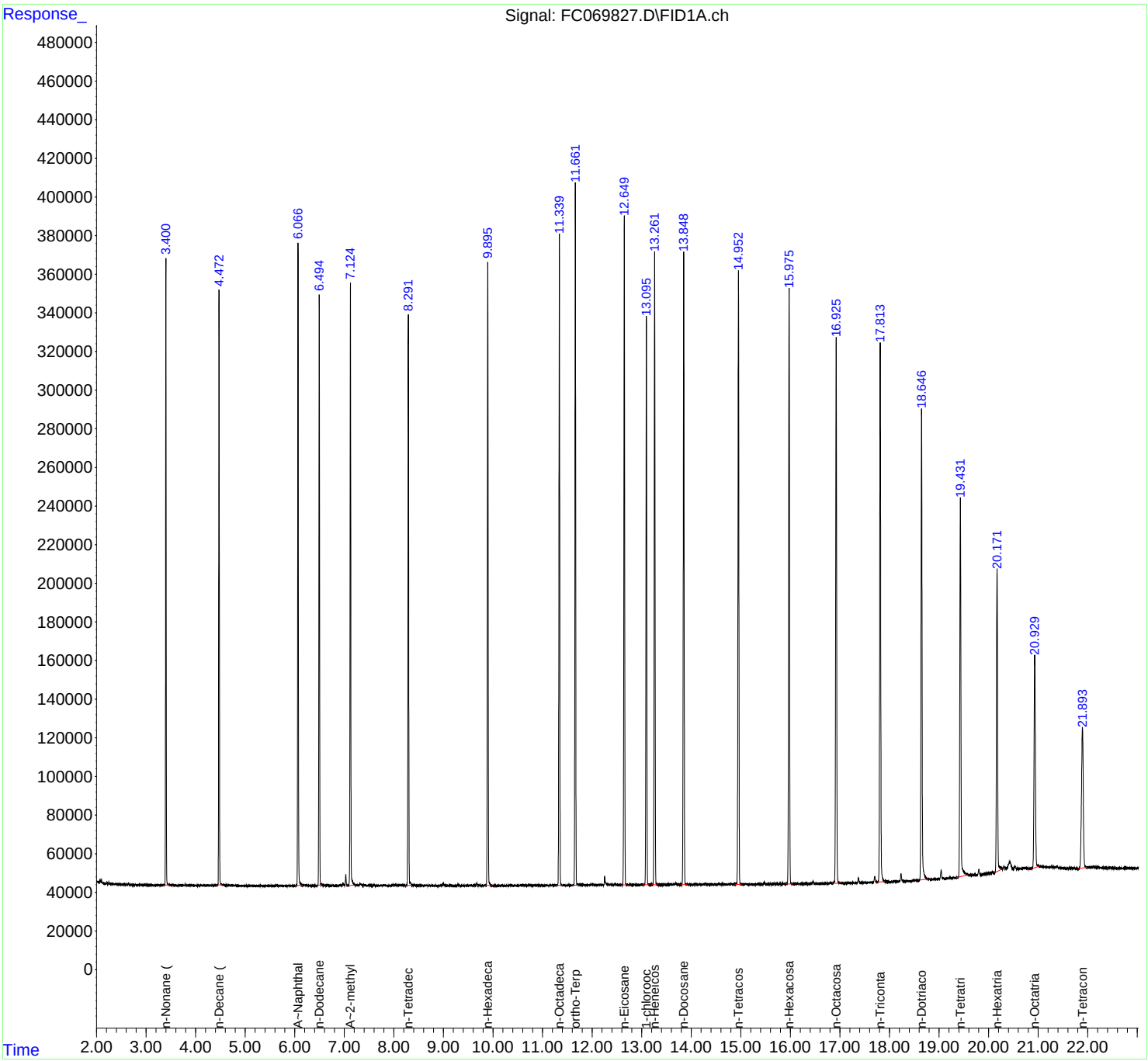
(f)=RT Delta > 1/2 Window (m)=manual int.

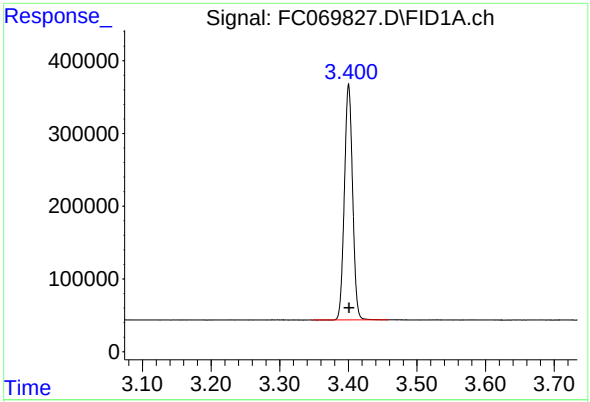
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069827.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 12:02
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 23 12:38:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 12:38:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

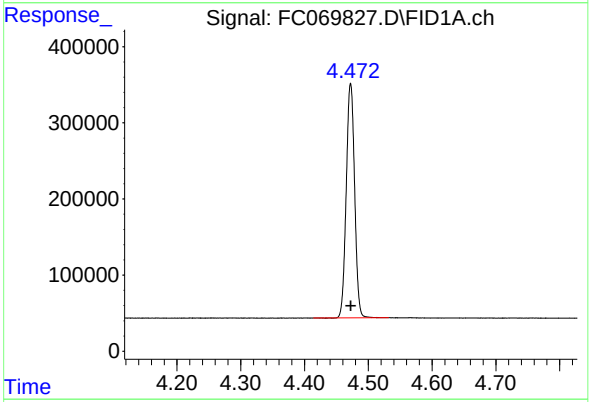




#1 n-Nonane (C9)

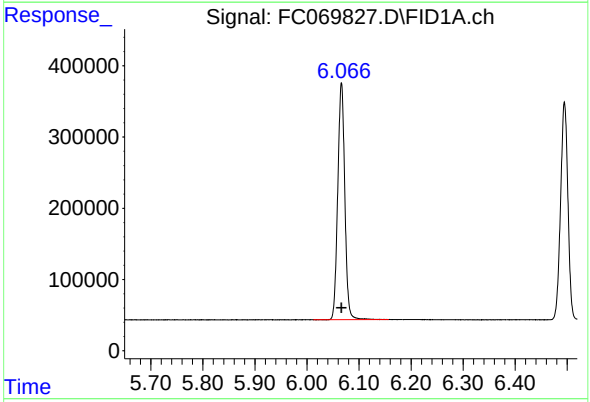
R.T.: 3.401 min
Delta R.T.: 0.000 min
Response: 2691320
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



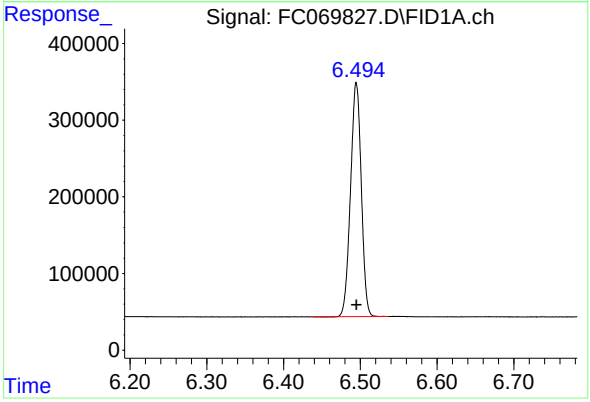
#2 n-Decane (C10)

R.T.: 4.472 min
Delta R.T.: 0.000 min
Response: 2813927
Conc: 20.00 ug/ml



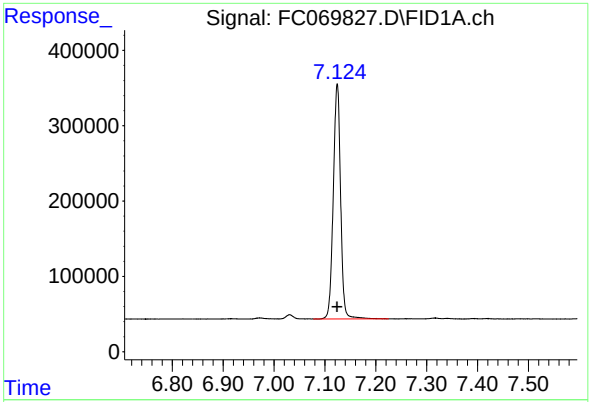
#3 A~Naphthalene (C11.7)

R.T.: 6.066 min
Delta R.T.: 0.000 min
Response: 3132652
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

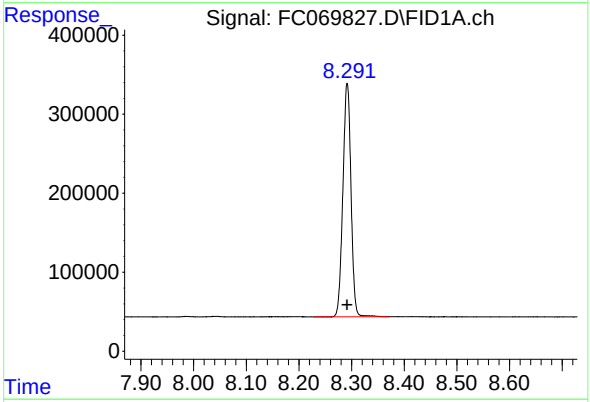
R.T.: 6.495 min
Delta R.T.: 0.000 min
Response: 2974748
Conc: 20.00 ug/ml



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

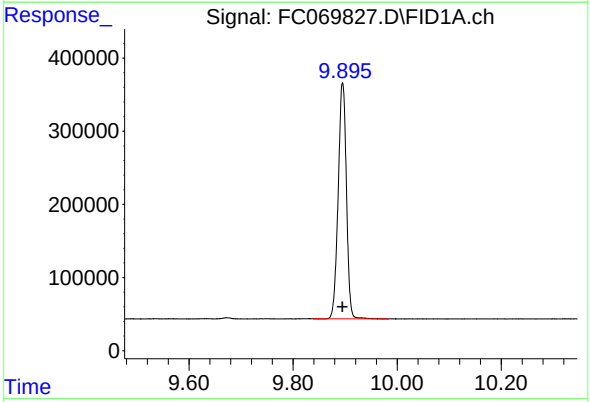
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 3116315
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



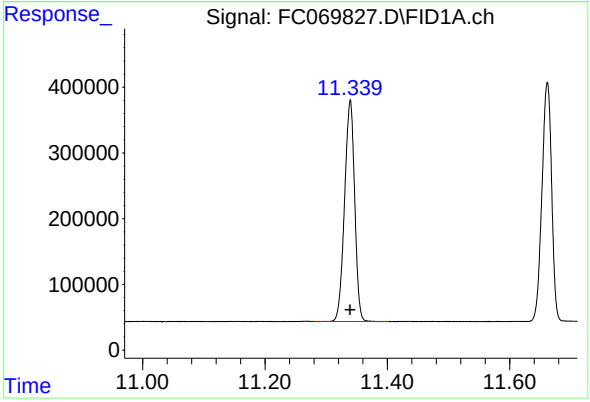
#6 n-Tetradecane (C14)

R.T.: 8.292 min
Delta R.T.: 0.000 min
Response: 3166933
Conc: 20.00 ug/ml



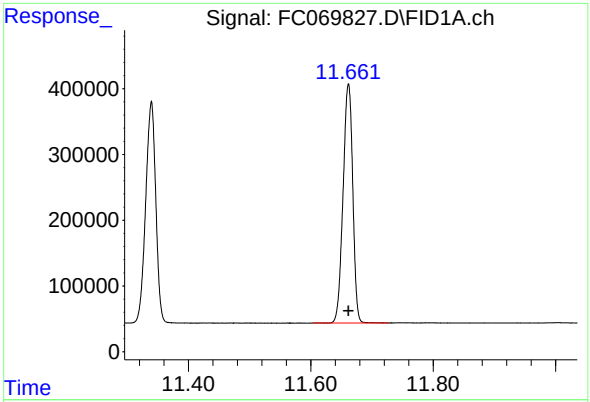
#7 n-Hexadecane (C16)

R.T.: 9.895 min
Delta R.T.: 0.000 min
Response: 3540428
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

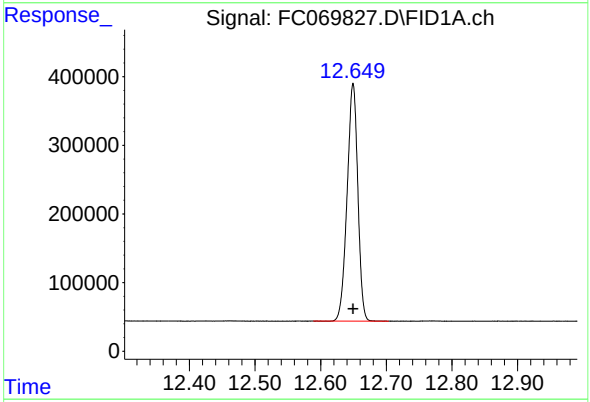
R.T.: 11.339 min
Delta R.T.: 0.000 min
Response: 3856654
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

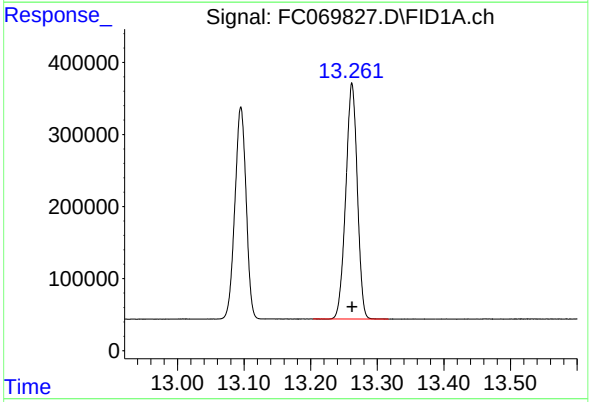
R.T.: 11.661 min
Delta R.T.: 0.000 min
Response: 3997190
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



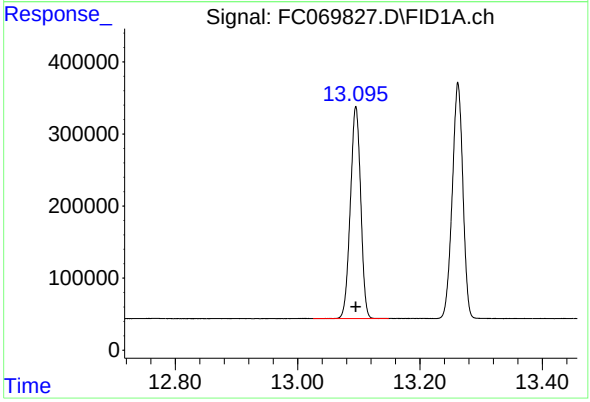
#10 n-Eicosane (C20)

R.T.: 12.649 min
Delta R.T.: 0.000 min
Response: 3923913
Conc: 20.00 ug/ml



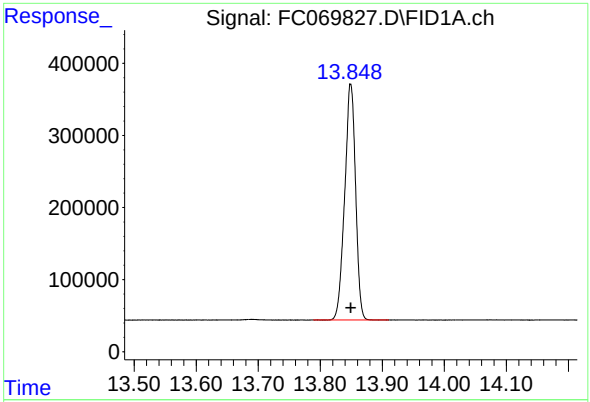
#11 n-Heneicosane (C21)

R.T.: 13.262 min
Delta R.T.: 0.000 min
Response: 3945724
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

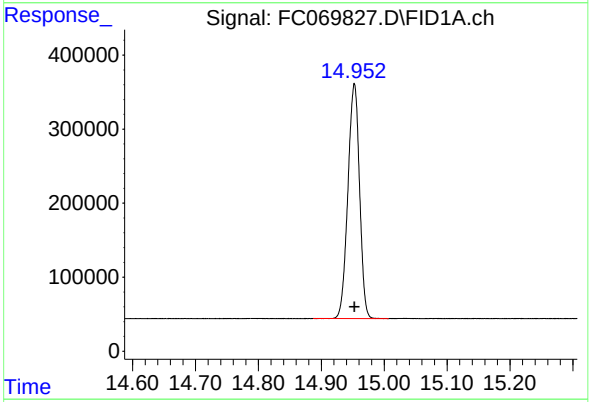
R.T.: 13.095 min
Delta R.T.: 0.000 min
Response: 3447033
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

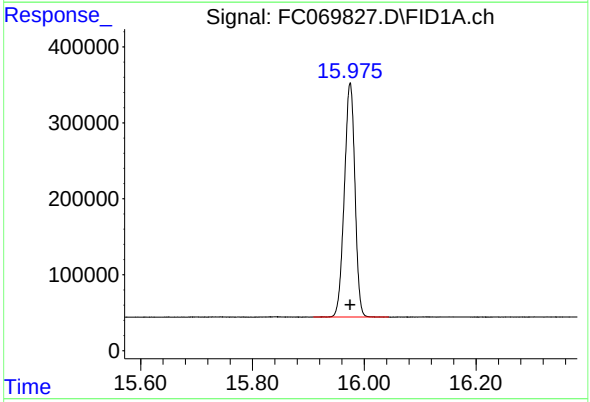
R.T.: 13.849 min
Delta R.T.: 0.000 min
Response: 3991937
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



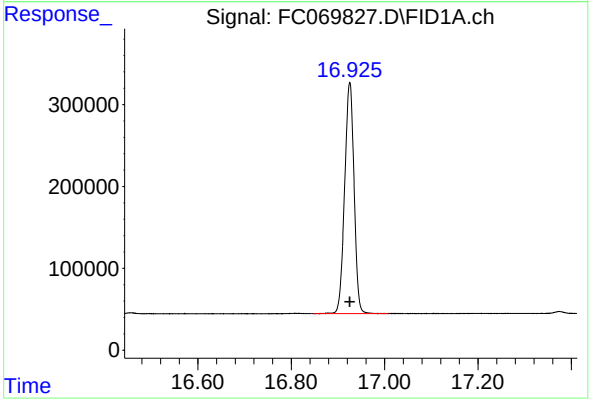
#14 n-Tetracosane (C24)

R.T.: 14.953 min
Delta R.T.: 0.000 min
Response: 4075708
Conc: 20.00 ug/ml



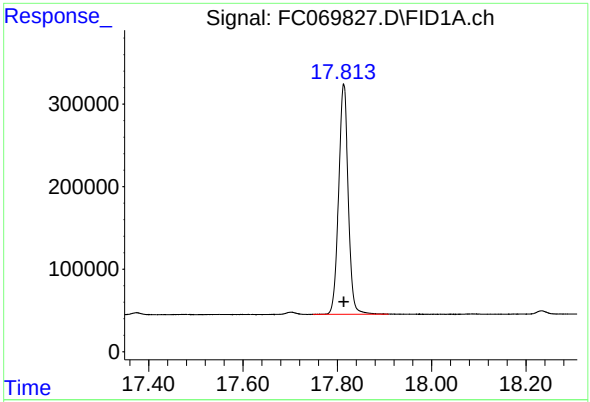
#15 n-Hexacosane (C26)

R.T.: 15.975 min
Delta R.T.: 0.000 min
Response: 4049330
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

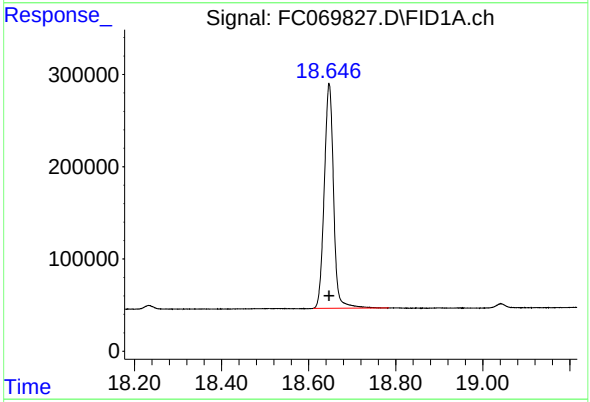
R.T.: 16.925 min
Delta R.T.: 0.000 min
Response: 3954788
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

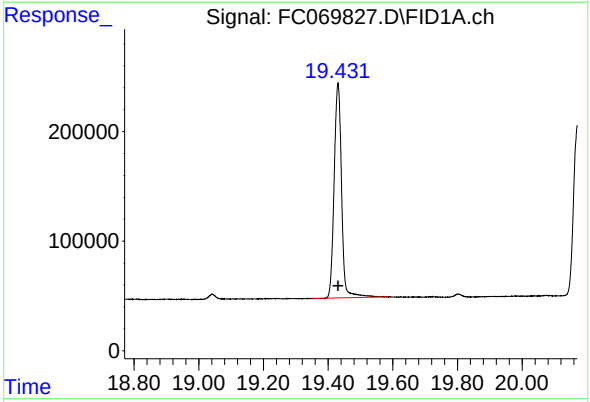
R.T.: 17.814 min
Delta R.T.: 0.000 min
Response: 3912238
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



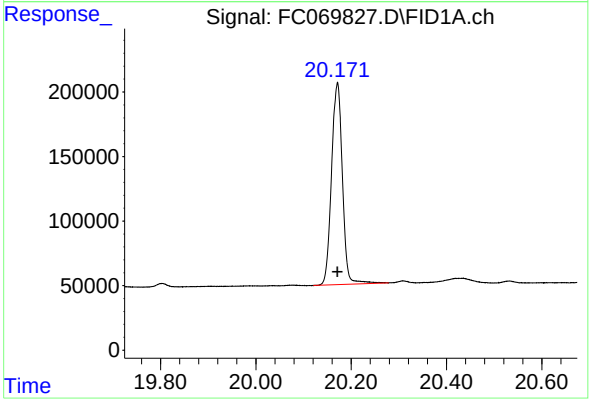
#18 n-Dotriacontane (C32)

R.T.: 18.647 min
Delta R.T.: 0.000 min
Response: 3615771
Conc: 20.00 ug/ml



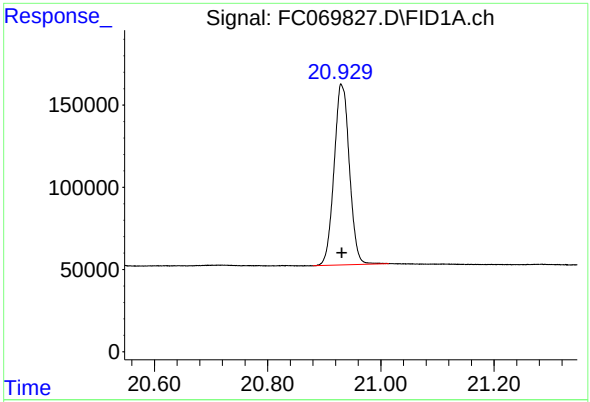
#19 n-Tetratriacontane (C34)

R.T.: 19.430 min
Delta R.T.: 0.000 min
Response: 3125338
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

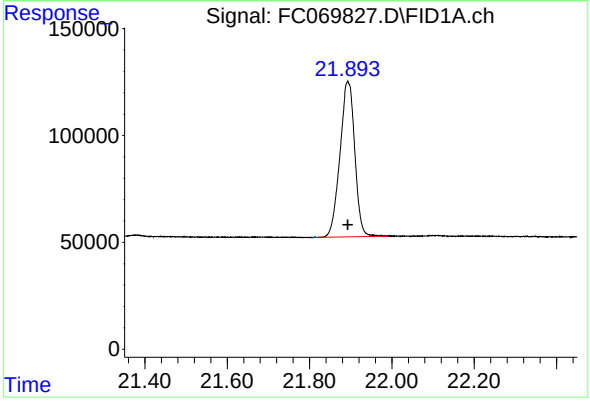
R.T.: 20.171 min
Delta R.T.: 0.000 min
Response: 2488192
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.931 min
Delta R.T.: 0.000 min
Response: 2066589
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.893 min
Delta R.T.: 0.000 min
Response: 1810790
Conc: 20.00 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069827.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 12:02
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 092325.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	3.401	3.349	3.459	BB	323368	2691320	66.03%	3.652%
2	4.472	4.414	4.532	BB	307981	2813927	69.04%	3.818%
3	6.066	6.012	6.157	BB	333281	3132652	76.86%	4.251%
4	6.495	6.439	6.537	BB	304189	2974748	72.99%	4.036%
5	7.124	7.077	7.225	BB	312463	3116315	76.46%	4.229%
6	8.292	8.227	8.370	BB	295532	3166933	77.70%	4.297%
7	9.895	9.839	9.984	BB	322443	3540428	86.87%	4.804%
8	11.339	11.279	11.402	BB	335701	3856654	94.63%	5.233%
9	11.661	11.604	11.727	BB	364997	3997190	98.07%	5.424%
10	12.649	12.589	12.704	BB	345435	3923913	96.28%	5.324%
11	13.095	13.025	13.149	BB	294191	3447033	84.58%	4.677%
12	13.262	13.204	13.317	BB	327597	3945724	96.81%	5.354%
13	13.849	13.789	13.910	BB	327535	3991937	97.94%	5.417%
14	14.953	14.887	15.007	BB	317817	4075708	100.00%	5.530%
15	15.975	15.909	16.044	BB	308627	4049330	99.35%	5.495%
16	16.925	16.847	17.009	BB	282583	3954788	97.03%	5.366%
17	17.814	17.749	17.909	BB	279045	3912238	95.99%	5.309%
18	18.647	18.610	18.784	BB	243782	3615771	88.72%	4.906%
19	19.430	19.354	19.587	BB	195856	3125338	76.68%	4.241%
20	20.171	20.120	20.279	BB	155921	2488192	61.05%	3.376%
21	20.931	20.880	21.014	BB	109494	2066589	50.71%	2.804%
22	21.893	21.809	21.992	BB	72741	1810790	44.43%	2.457%
			Sum of corrected areas:			73697515		

Aliphatic EPH 092325.M Tue Sep 23 15:03:39 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069828.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 12:47
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: Sep 23 13:19:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 13:19:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.659	1827092	9.996 ug/ml
Spiked Amount	50.000		Recovery =	19.99%
12) S	1-chlorooctadecane (S...	13.094	1510608	9.915 ug/ml
Spiked Amount	50.000		Recovery =	19.83%
	Target Compounds			
1) T	n-Nonane (C9)	3.400	1287588	10.243 ug/ml
2) T	n-Decane (C10)	4.472	1326423	10.173 ug/ml
3) T	A~Naphthalene (C11.7)	6.066	1492245	10.214 ug/ml
4) T	n-Dodecane (C12)	6.495	1378664	10.055 ug/ml
5) T	A~2-methylnaphthalene...	7.124	1473925	10.127 ug/ml
6) T	n-Tetradecane (C14)	8.291	1453833	9.993 ug/ml
7) T	n-Hexadecane (C16)	9.894	1605537	9.964 ug/ml
8) T	n-Octadecane (C18)	11.337	1715153	9.937 ug/ml
10) T	n-Eicosane (C20)	12.648	1724242	9.946 ug/ml
11) T	n-Heneicosane (C21)	13.261	1721908	9.934 ug/ml
13) T	n-Docosane (C22)	13.847	1730466	9.920 ug/ml
14) T	n-Tetracosane (C24)	14.951	1747122	9.908 ug/ml
15) T	n-Hexacosane (C26)	15.973	1725760	9.922 ug/ml
16) T	n-Octacosane (C28)	16.923	1682895	9.966 ug/ml
17) T	n-Tricontane (C30)	17.812	1680498	10.076 ug/ml
18) T	n-Dotriacontane (C32)	18.646	1566941	10.160 ug/ml
19) T	n-Tetratriacontane (C34)	19.429	1350605	10.080 ug/ml
20) T	n-Hexatriacontane (C36)	20.169	1124746	10.333 ug/ml
21) T	n-Octatriacontane (C38)	20.929	982164	10.553 ug/ml
22) T	n-Tetracontane (C40)	21.889	904610	10.835 ug/ml

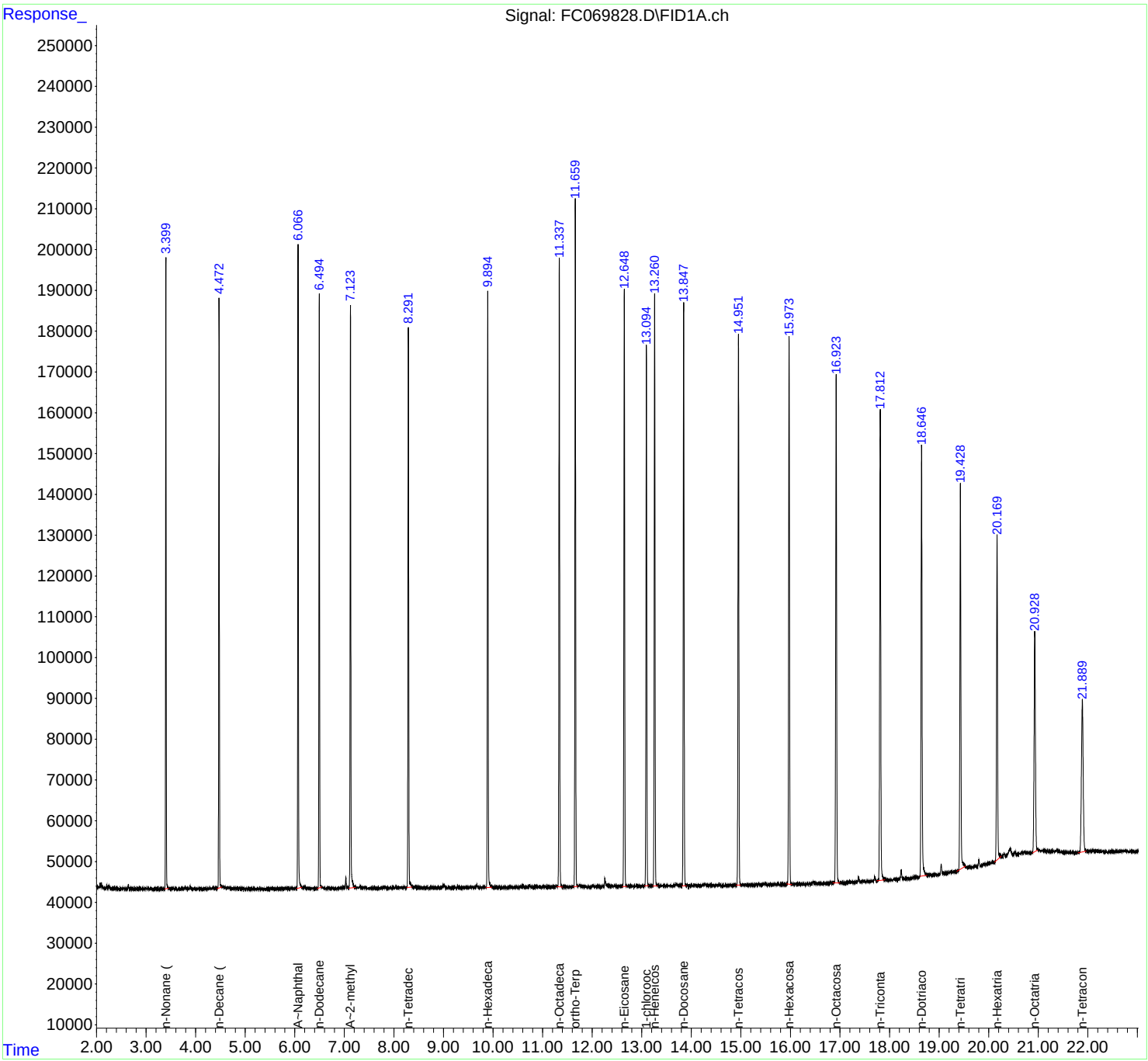
(f)=RT Delta > 1/2 Window (m)=manual int.

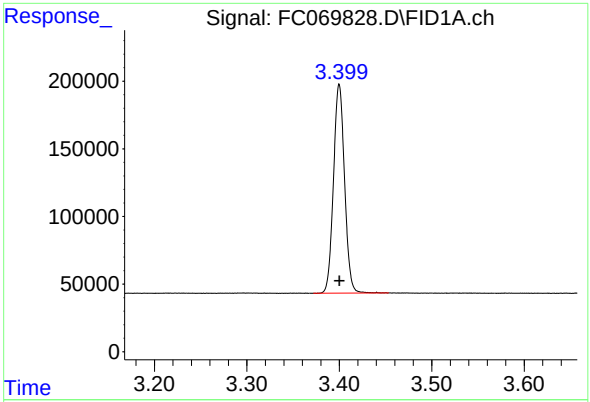
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069828.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 12:47
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 23 13:19:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 13:19:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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

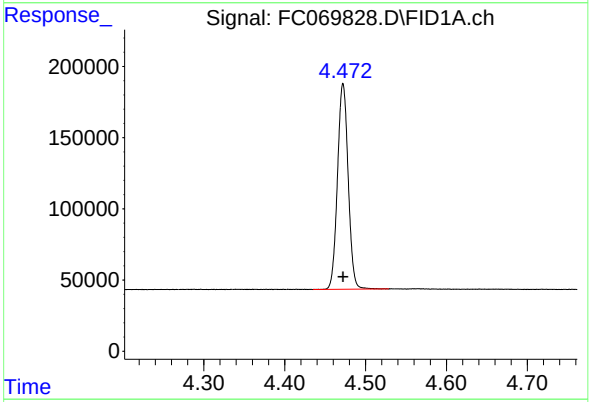




#1 n-Nonane (C9)

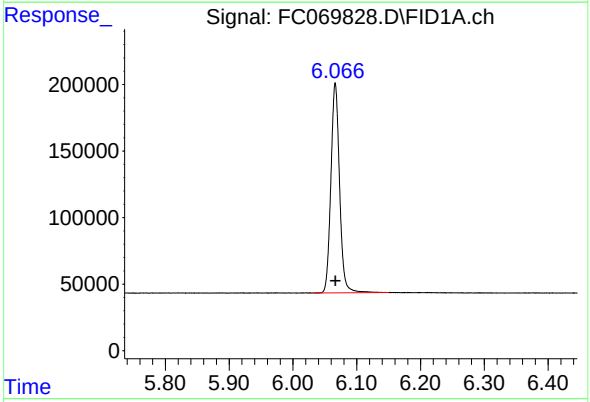
R.T.: 3.400 min
Delta R.T.: 0.000 min
Response: 1287588
Conc: 10.24 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



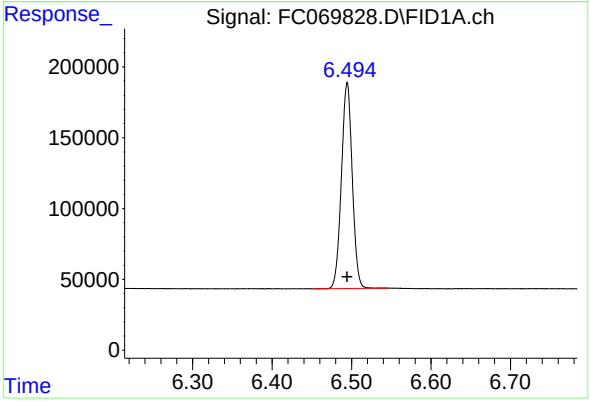
#2 n-Decane (C10)

R.T.: 4.472 min
Delta R.T.: 0.000 min
Response: 1326423
Conc: 10.17 ug/ml



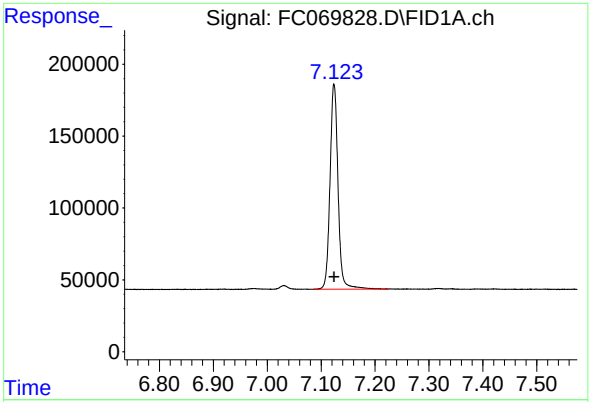
#3 A~Naphthalene (C11.7)

R.T.: 6.066 min
Delta R.T.: 0.000 min
Response: 1492245
Conc: 10.21 ug/ml



#4 n-Dodecane (C12)

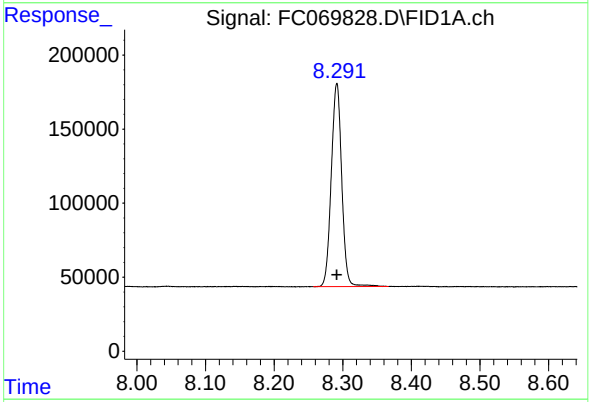
R.T.: 6.495 min
Delta R.T.: 0.000 min
Response: 1378664
Conc: 10.05 ug/ml



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

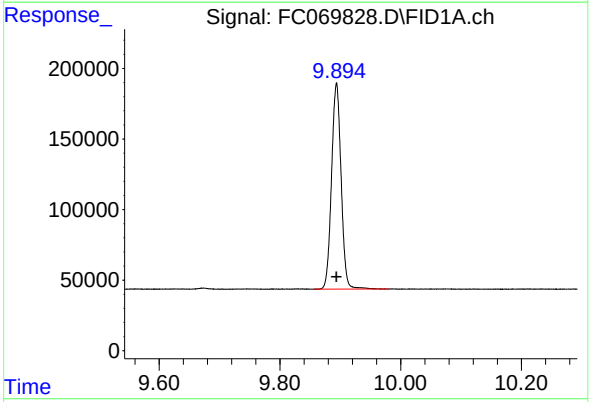
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 1473925
Conc: 10.13 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



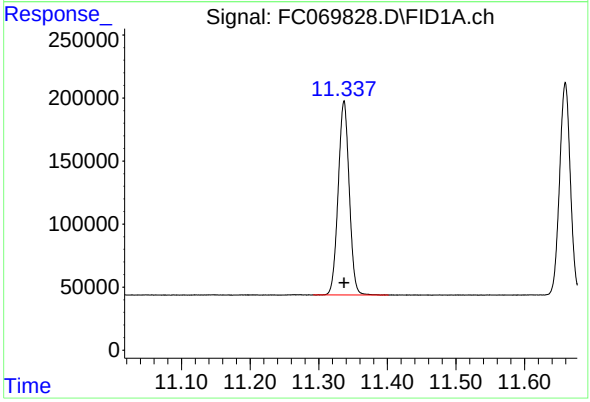
#6 n-Tetradecane (C14)

R.T.: 8.291 min
Delta R.T.: 0.000 min
Response: 1453833
Conc: 9.99 ug/ml



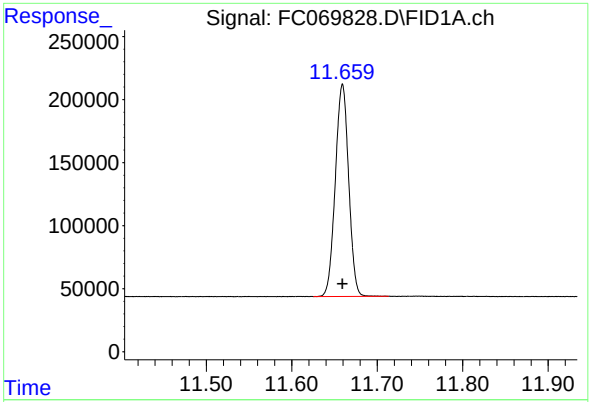
#7 n-Hexadecane (C16)

R.T.: 9.894 min
Delta R.T.: 0.000 min
Response: 1605537
Conc: 9.96 ug/ml



#8 n-Octadecane (C18)

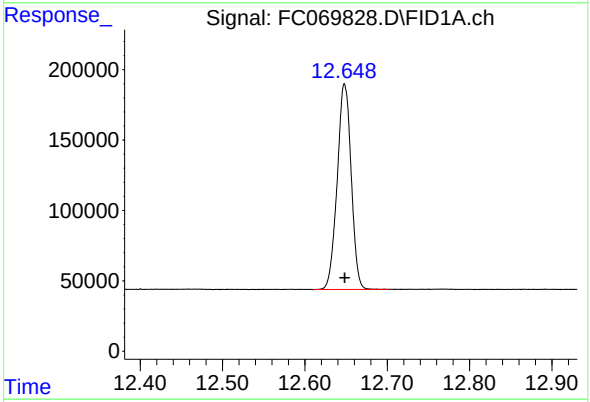
R.T.: 11.337 min
Delta R.T.: 0.000 min
Response: 1715153
Conc: 9.94 ug/ml



#9 ortho-Terphenyl (SURR)

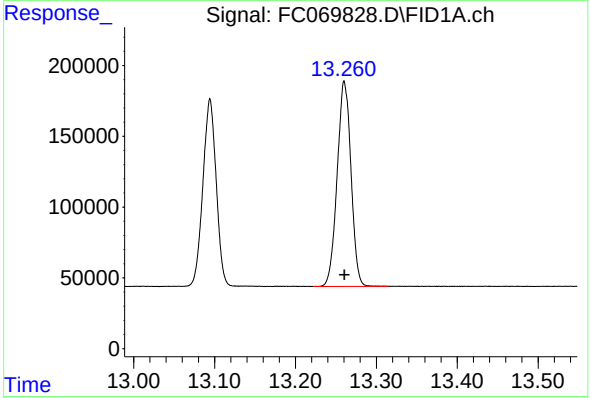
R.T.: 11.659 min
Delta R.T.: 0.000 min
Response: 1827092
Conc: 10.00 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



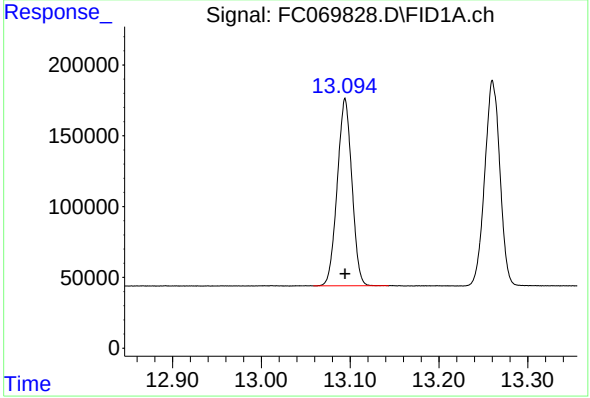
#10 n-Eicosane (C20)

R.T.: 12.648 min
Delta R.T.: 0.000 min
Response: 1724242
Conc: 9.95 ug/ml



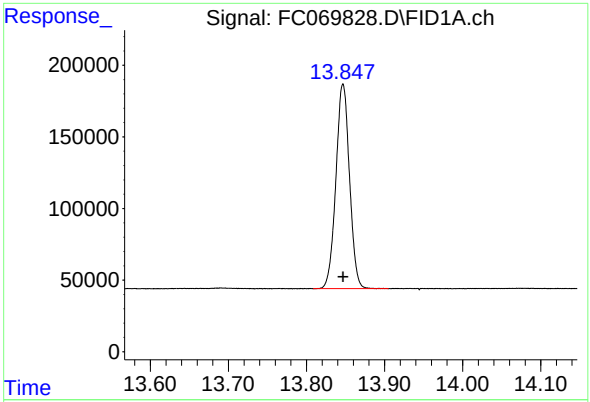
#11 n-Heneicosane (C21)

R.T.: 13.261 min
Delta R.T.: 0.000 min
Response: 1721908
Conc: 9.93 ug/ml



#12 1-chlorooctadecane (SURR)

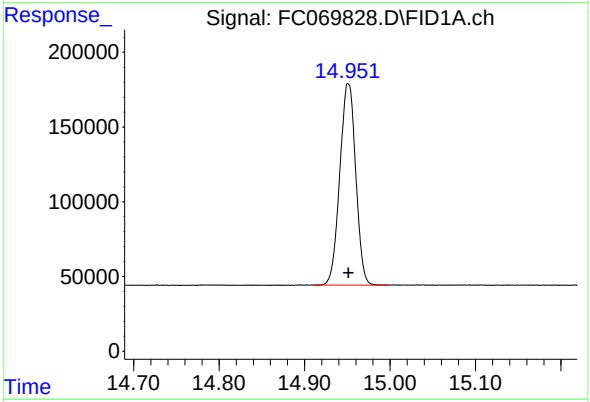
R.T.: 13.094 min
Delta R.T.: 0.000 min
Response: 1510608
Conc: 9.92 ug/ml



#13 n-Docosane (C22)

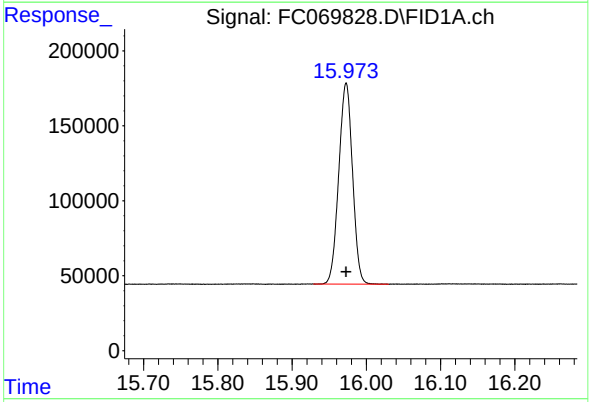
R.T.: 13.847 min
Delta R.T.: 0.000 min
Response: 1730466
Conc: 9.92 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



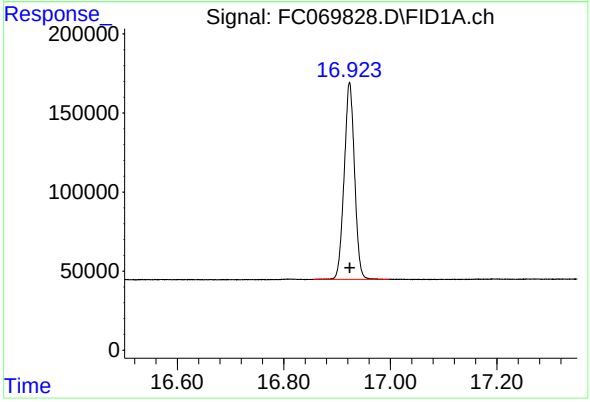
#14 n-Tetracosane (C24)

R.T.: 14.951 min
Delta R.T.: 0.000 min
Response: 1747122
Conc: 9.91 ug/ml



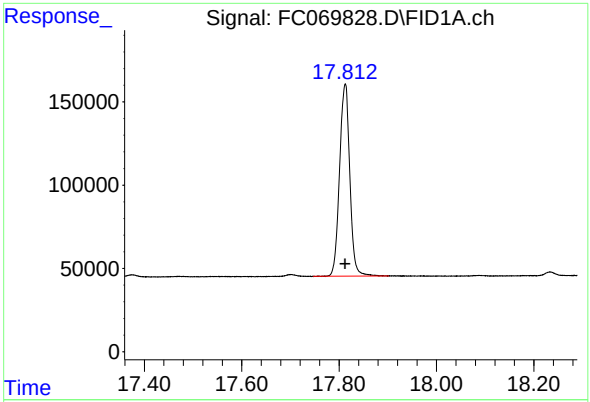
#15 n-Hexacosane (C26)

R.T.: 15.973 min
Delta R.T.: 0.000 min
Response: 1725760
Conc: 9.92 ug/ml



#16 n-Octacosane (C28)

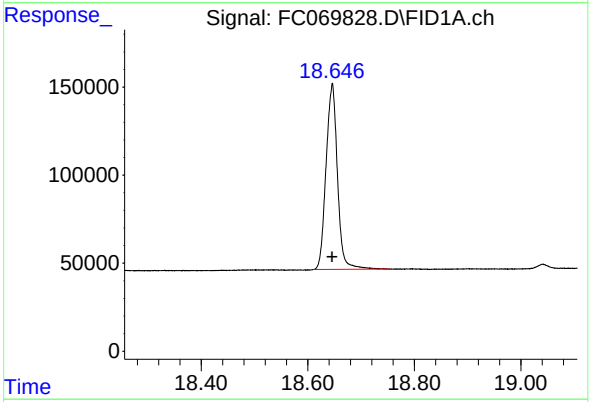
R.T.: 16.923 min
Delta R.T.: 0.000 min
Response: 1682895
Conc: 9.97 ug/ml



#17 n-Tricontane (C30)

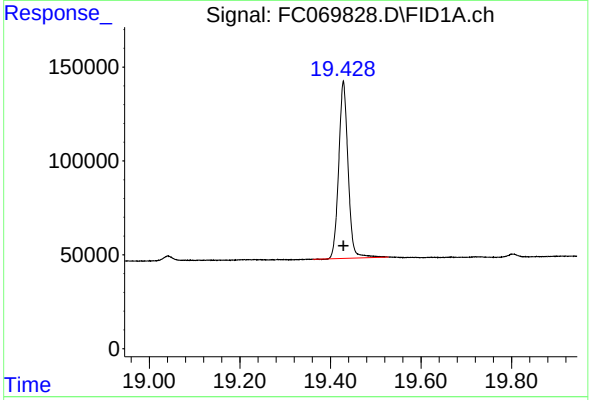
R.T.: 17.812 min
Delta R.T.: 0.000 min
Response: 1680498
Conc: 10.08 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



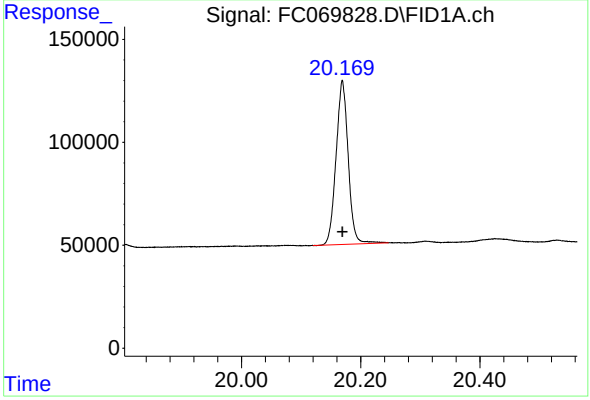
#18 n-Dotriacontane (C32)

R.T.: 18.646 min
Delta R.T.: 0.000 min
Response: 1566941
Conc: 10.16 ug/ml



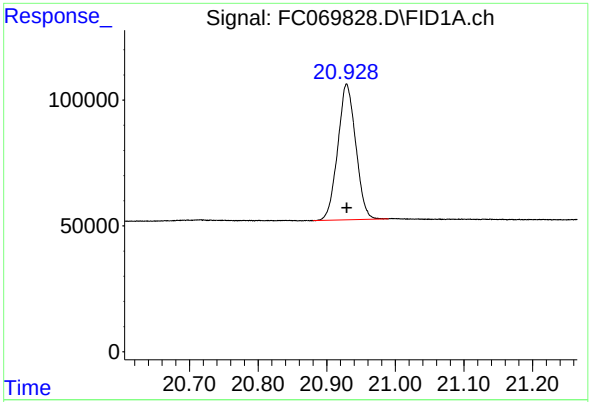
#19 n-Tetratriacontane (C34)

R.T.: 19.429 min
Delta R.T.: 0.000 min
Response: 1350605
Conc: 10.08 ug/ml



#20 n-Hexatriacontane (C36)

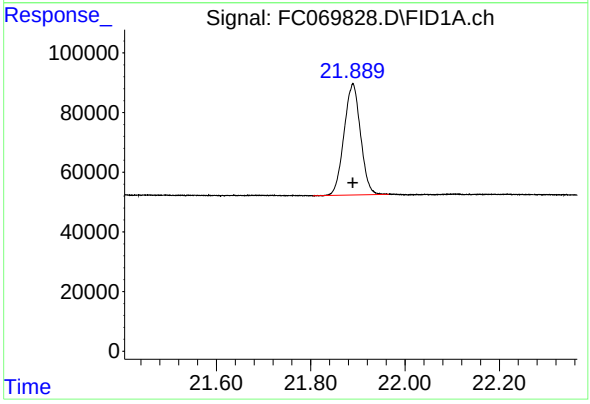
R.T.: 20.169 min
Delta R.T.: 0.000 min
Response: 1124746
Conc: 10.33 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.929 min
Delta R.T.: 0.000 min
Response: 982164
Conc: 10.55 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.889 min
Delta R.T.: 0.000 min
Response: 904610
Conc: 10.83 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069828.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 12:47
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 092325.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	3.400	3.372	3.453	BB	154553	1287588	70.47%	3.900%
2	4.472	4.435	4.528	BB	144409	1326423	72.60%	4.018%
3	6.066	6.032	6.150	BB	157369	1492245	81.67%	4.520%
4	6.495	6.452	6.547	BB	146009	1378664	75.46%	4.176%
5	7.124	7.085	7.225	BB	143041	1473925	80.67%	4.465%
6	8.291	8.257	8.367	BB	137646	1453833	79.57%	4.404%
7	9.894	9.855	9.980	BB	146021	1605537	87.87%	4.863%
8	11.337	11.292	11.402	BB	154003	1715153	93.87%	5.195%
9	11.659	11.625	11.713	BB	168825	1827092	100.00%	5.534%
10	12.648	12.610	12.702	BB	145826	1724242	94.37%	5.223%
11	13.094	13.058	13.143	BB	132328	1510608	82.68%	4.576%
12	13.261	13.222	13.315	BB	144607	1721908	94.24%	5.216%
13	13.847	13.808	13.905	BB	142806	1730466	94.71%	5.242%
14	14.951	14.910	14.998	BB	134538	1747122	95.62%	5.292%
15	15.973	15.928	16.030	BB	134472	1725760	94.45%	5.228%
16	16.923	16.855	16.997	BB	124447	1682895	92.11%	5.098%
17	17.812	17.747	17.902	BB	115227	1680498	91.98%	5.090%
18	18.646	18.610	18.752	BB	104813	1566941	85.76%	4.746%
19	19.429	19.362	19.528	BB	94297	1350605	73.92%	4.091%
20	20.169	20.120	20.247	BB	79555	1124746	61.56%	3.407%
21	20.929	20.880	20.990	BB	53970	982164	53.76%	2.975%
22	21.889	21.805	21.965	BB	37448	904610	49.51%	2.740%
			Sum of corrected areas:			33013024		

Aliphatic EPH 092325.M Tue Sep 23 15:03:07 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069829.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 13:33
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: Sep 23 14:55:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:55:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.658	1026900	5.483 ug/ml
Spiked Amount	50.000		Recovery =	10.97%
12) S	1-chlorooctadecane (S...	13.094	900913	5.705 ug/ml
Spiked Amount	50.000		Recovery =	11.41%
	Target Compounds			
1) T	n-Nonane (C9)	3.400	690670	5.388 ug/ml
2) T	n-Decane (C10)	4.472	714177	5.375 ug/ml
3) T	A~Naphthalene (C11.7)	6.067	789322	5.317 ug/ml
4) T	n-Dodecane (C12)	6.494	745101	5.341 ug/ml
5) T	A~2-methylnaphthalene...	7.124	780078	5.284 ug/ml
6) T	n-Tetradecane (C14)	8.291	798401	5.383 ug/ml
7) T	n-Hexadecane (C16)	9.894	902897	5.471 ug/ml
8) T	n-Octadecane (C18)	11.336	1003305	5.630 ug/ml
10) T	n-Eicosane (C20)	12.647	1035429	5.749 ug/ml
11) T	n-Heneicosane (C21)	13.259	1041203	5.774 ug/ml
13) T	n-Docosane (C22)	13.846	1053142	5.797 ug/ml
14) T	n-Tetracosane (C24)	14.950	1073474	5.834 ug/ml
15) T	n-Hexacosane (C26)	15.972	1060487	5.841 ug/ml
16) T	n-Octacosane (C28)	16.923	1036040	5.869 ug/ml
17) T	n-Tricontane (C30)	17.811	1040062	5.942 ug/ml
18) T	n-Dotriacontane (C32)	18.644	960150	5.935 ug/ml
19) T	n-Tetratriacontane (C34)	19.428	814137	5.826 ug/ml
20) T	n-Hexatriacontane (C36)	20.168	645568	5.718 ug/ml
21) T	n-Octatriacontane (C38)	20.930	550260	5.704 ug/ml
22) T	n-Tetracontane (C40)	21.888	483358	5.612 ug/ml

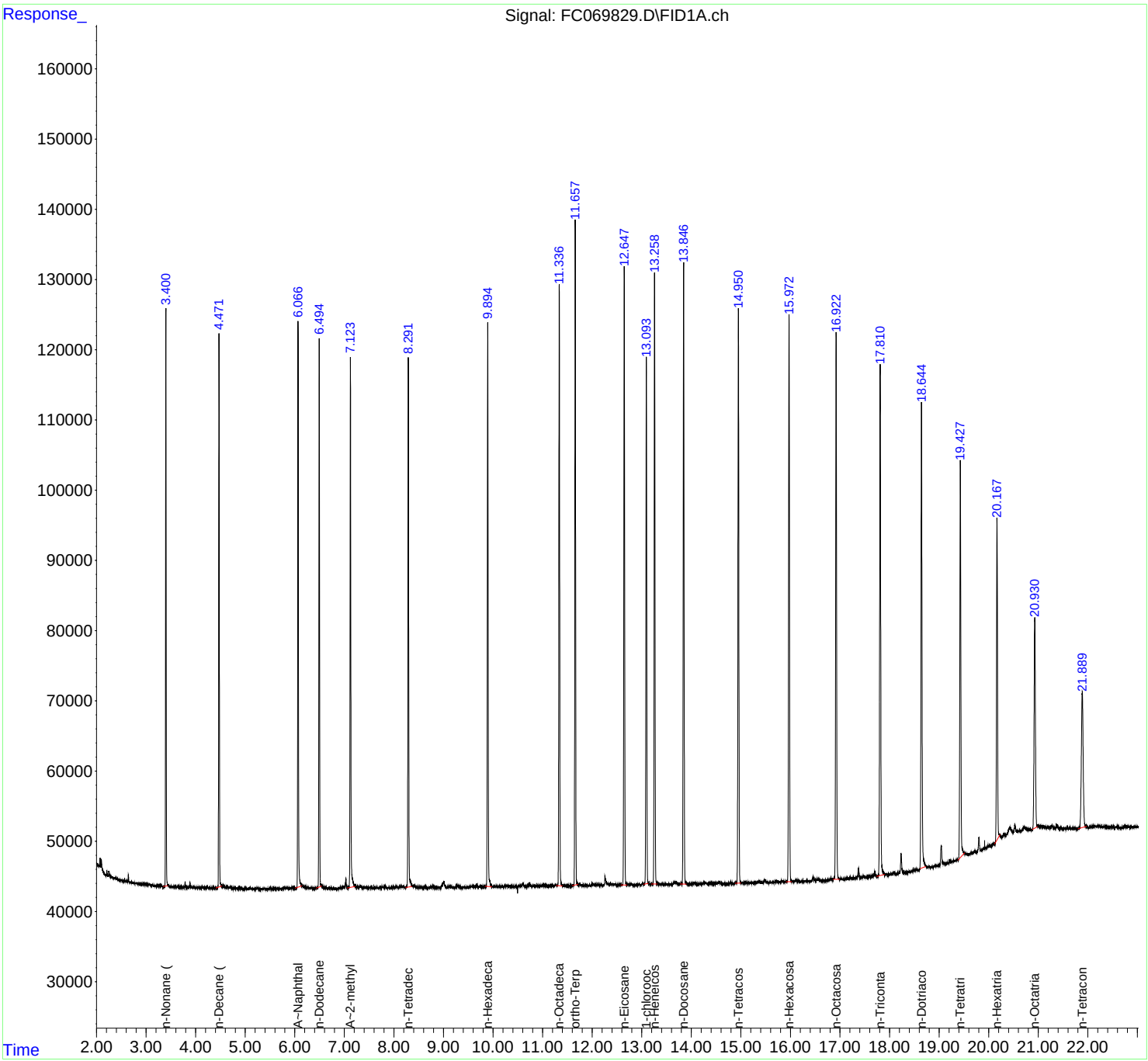
(f)=RT Delta > 1/2 Window (m)=manual int.

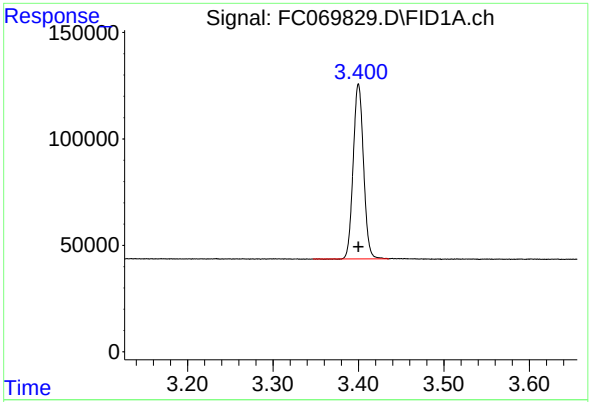
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069829.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 13:33
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 23 14:55:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:55:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

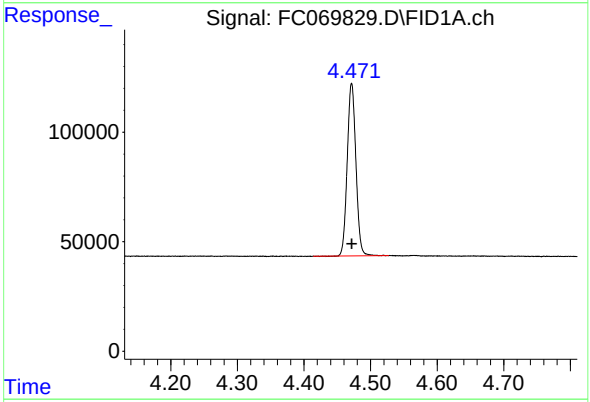




#1 n-Nonane (C9)

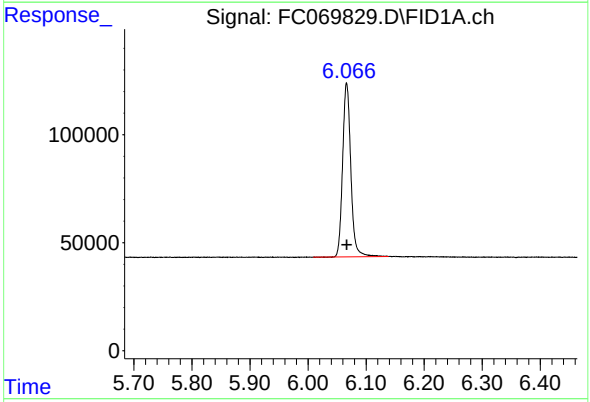
R.T.: 3.400 min
Delta R.T.: 0.000 min
Response: 690670
Conc: 5.39 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



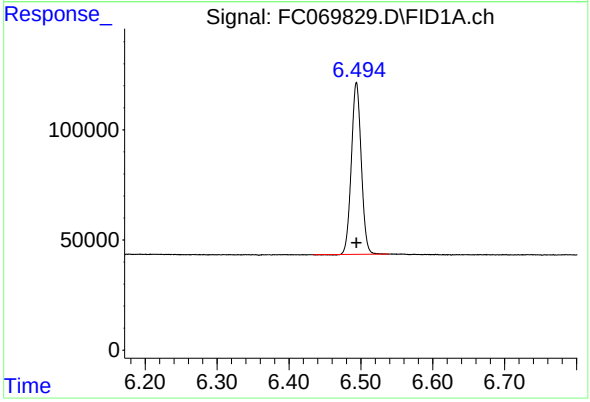
#2 n-Decane (C10)

R.T.: 4.472 min
Delta R.T.: 0.000 min
Response: 714177
Conc: 5.37 ug/ml



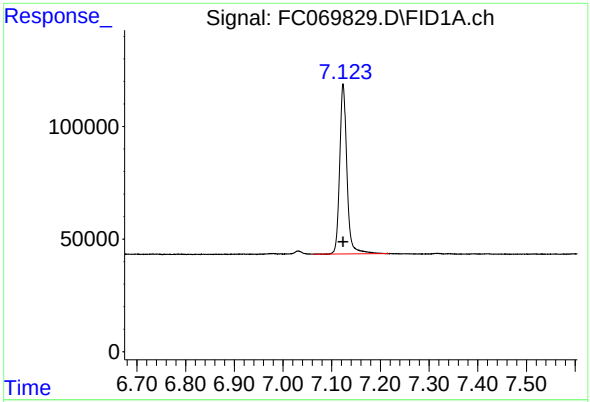
#3 A~Naphthalene (C11.7)

R.T.: 6.067 min
Delta R.T.: 0.000 min
Response: 789322
Conc: 5.32 ug/ml



#4 n-Dodecane (C12)

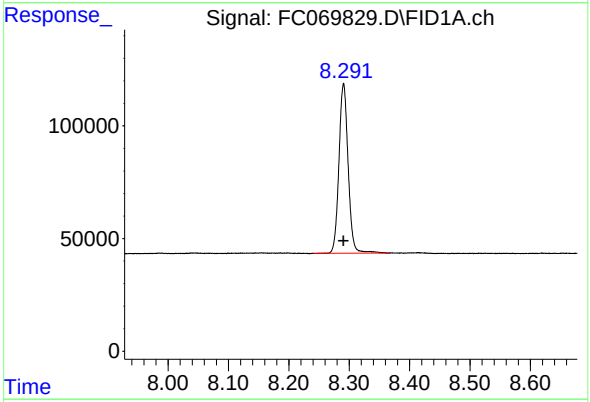
R.T.: 6.494 min
Delta R.T.: 0.000 min
Response: 745101
Conc: 5.34 ug/ml



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

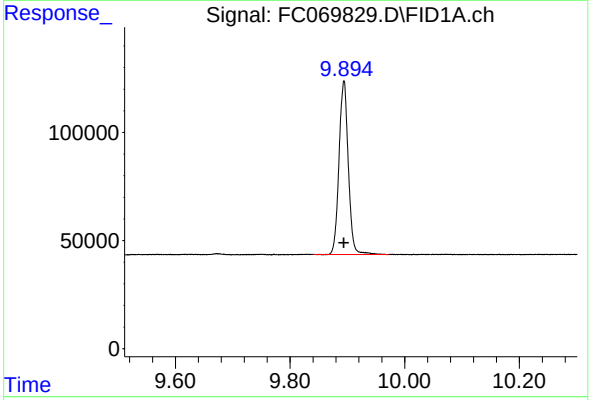
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 780078
Conc: 5.28 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



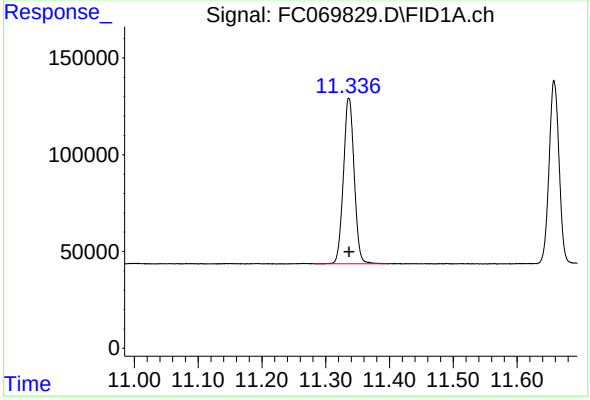
#6 n-Tetradecane (C14)

R.T.: 8.291 min
Delta R.T.: 0.000 min
Response: 798401
Conc: 5.38 ug/ml



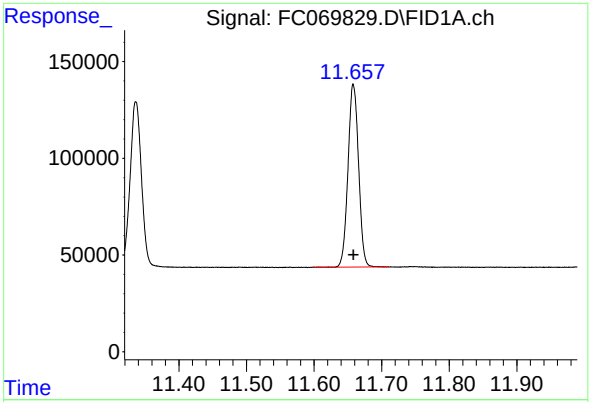
#7 n-Hexadecane (C16)

R.T.: 9.894 min
Delta R.T.: 0.000 min
Response: 902897
Conc: 5.47 ug/ml



#8 n-Octadecane (C18)

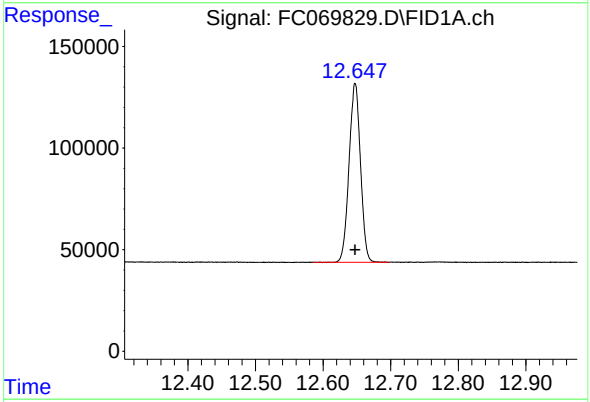
R.T.: 11.336 min
Delta R.T.: 0.000 min
Response: 1003305
Conc: 5.63 ug/ml



#9 ortho-Terphenyl (SURR)

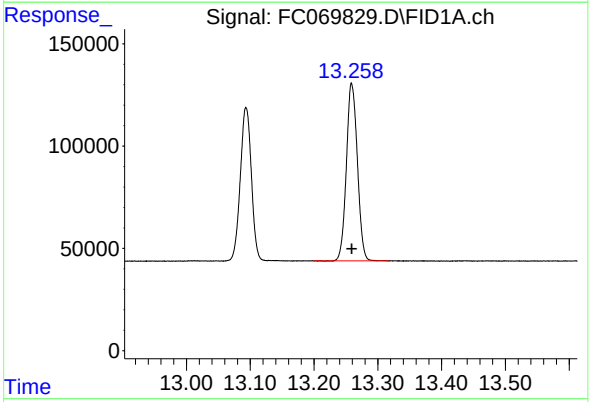
R.T.: 11.658 min
Delta R.T.: 0.000 min
Response: 1026900
Conc: 5.48 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



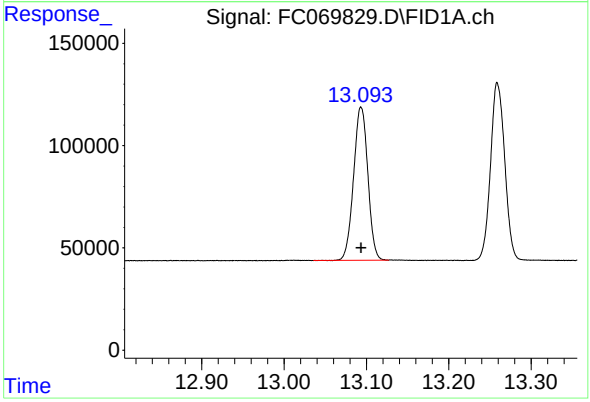
#10 n-Eicosane (C20)

R.T.: 12.647 min
Delta R.T.: 0.000 min
Response: 1035429
Conc: 5.75 ug/ml



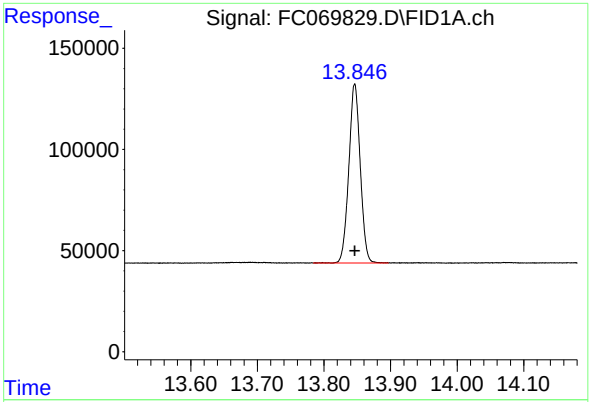
#11 n-Heneicosane (C21)

R.T.: 13.259 min
Delta R.T.: 0.000 min
Response: 1041203
Conc: 5.77 ug/ml



#12 1-chlorooctadecane (SURR)

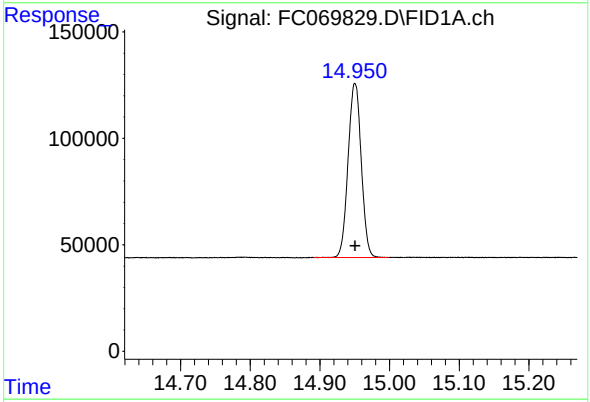
R.T.: 13.094 min
Delta R.T.: 0.000 min
Response: 900913
Conc: 5.70 ug/ml



#13 n-Docosane (C22)

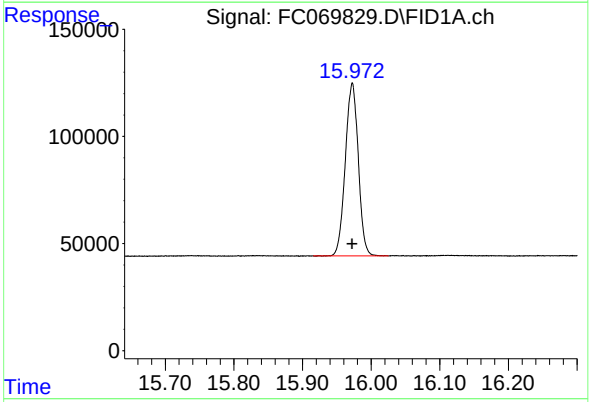
R.T.: 13.846 min
Delta R.T.: 0.000 min
Response: 1053142
Conc: 5.80 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



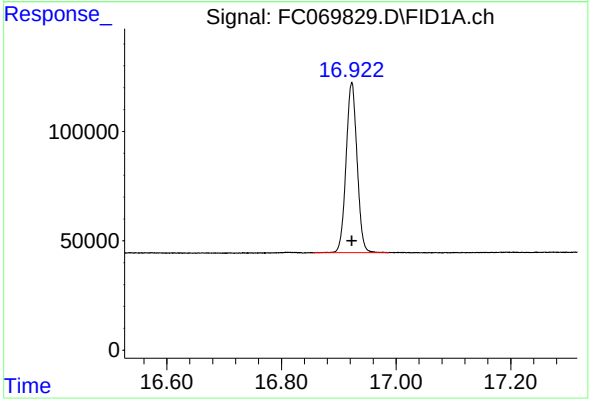
#14 n-Tetracosane (C24)

R.T.: 14.950 min
Delta R.T.: 0.000 min
Response: 1073474
Conc: 5.83 ug/ml



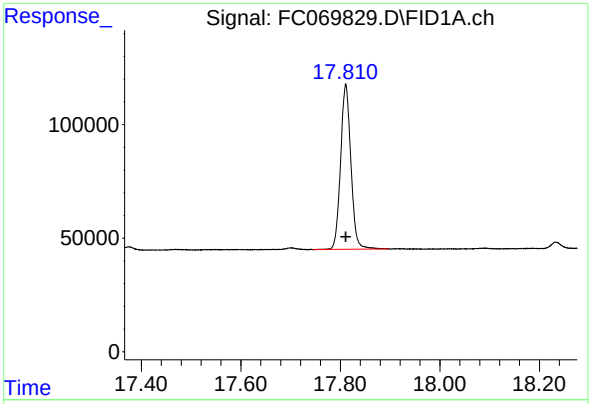
#15 n-Hexacosane (C26)

R.T.: 15.972 min
Delta R.T.: 0.000 min
Response: 1060487
Conc: 5.84 ug/ml



#16 n-Octacosane (C28)

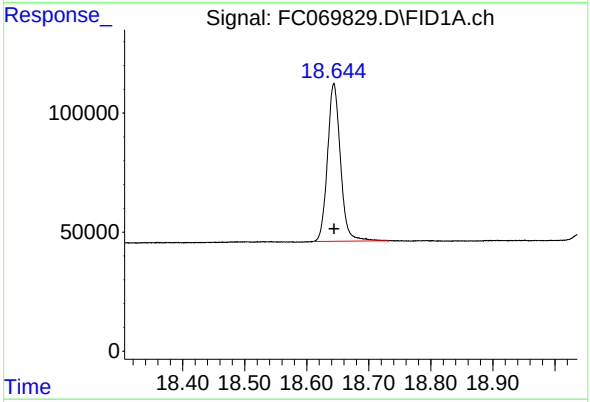
R.T.: 16.923 min
Delta R.T.: 0.000 min
Response: 1036040
Conc: 5.87 ug/ml



#17 n-Tricontane (C30)

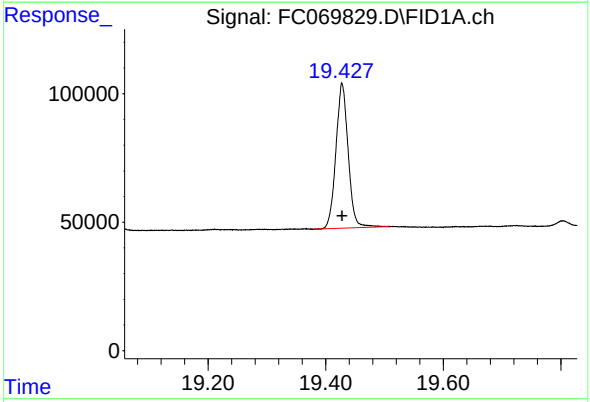
R.T.: 17.811 min
Delta R.T.: 0.000 min
Response: 1040062
Conc: 5.94 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



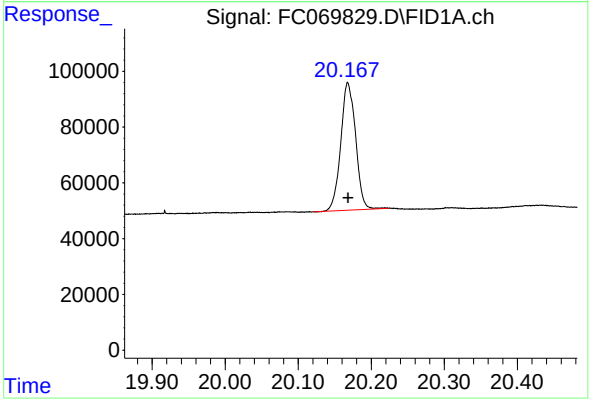
#18 n-Dotriacontane (C32)

R.T.: 18.644 min
Delta R.T.: 0.000 min
Response: 960150
Conc: 5.93 ug/ml



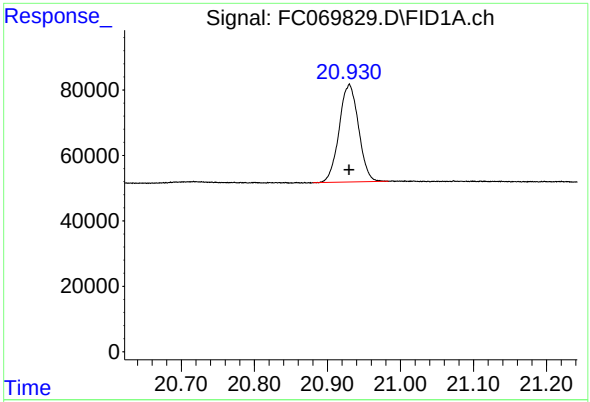
#19 n-Tetratriacontane (C34)

R.T.: 19.428 min
Delta R.T.: 0.000 min
Response: 814137
Conc: 5.83 ug/ml



#20 n-Hexatriacontane (C36)

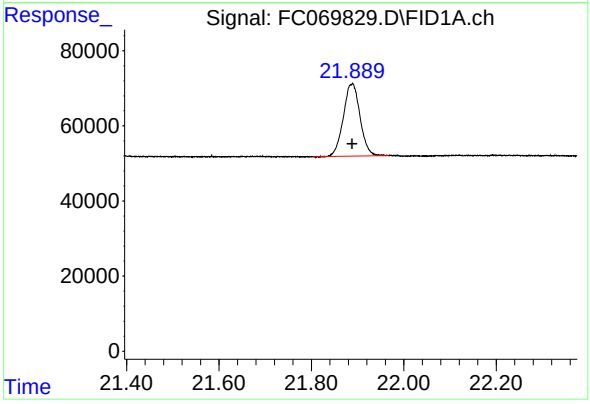
R.T.: 20.168 min
Delta R.T.: 0.000 min
Response: 645568
Conc: 5.72 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.930 min
Delta R.T.: 0.000 min
Response: 550260
Conc: 5.70 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.888 min
Delta R.T.: 0.000 min
Response: 483358
Conc: 5.61 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069829.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 13:33
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 092325.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	3.400	3.347	3.435	BB	82103	690670	64.34%	3.608%
2	4.472	4.414	4.527	BB	78789	714177	66.53%	3.730%
3	6.067	6.009	6.139	BB	80115	789322	73.53%	4.123%
4	6.494	6.434	6.539	BB	78051	745101	69.41%	3.892%
5	7.124	7.062	7.217	BB	75306	780078	72.67%	4.075%
6	8.291	8.240	8.365	BB	75214	798401	74.38%	4.170%
7	9.894	9.840	9.972	BB	80462	902897	84.11%	4.716%
8	11.336	11.280	11.399	BB	85606	1003305	93.46%	5.241%
9	11.658	11.599	11.710	BB	93859	1026900	95.66%	5.364%
10	12.647	12.585	12.697	BB	88391	1035429	96.46%	5.408%
11	13.094	13.035	13.127	BB	74816	900913	83.92%	4.706%
12	13.259	13.199	13.317	BB	86706	1041203	96.99%	5.438%
13	13.846	13.784	13.897	BB	88668	1053142	98.11%	5.501%
14	14.950	14.890	14.999	BB	81777	1073474	100.00%	5.607%
15	15.972	15.915	16.025	BB	80750	1060487	98.79%	5.539%
16	16.923	16.855	16.987	BB	77593	1036040	96.51%	5.412%
17	17.811	17.745	17.897	BB	72669	1040062	96.89%	5.433%
18	18.644	18.610	18.732	BB	66291	960150	89.44%	5.015%
19	19.428	19.379	19.507	BB	55983	814137	75.84%	4.252%
20	20.168	20.120	20.224	BB	45474	645568	60.14%	3.372%
21	20.930	20.880	20.984	BB	30013	550260	51.26%	2.874%
22	21.888	21.804	21.967	BB	19339	483358	45.03%	2.525%
			Sum of corrected areas:			19145073		

Aliphatic EPH 092325.M Tue Sep 23 15:02:48 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069830.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 14:19
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: Sep 23 14:57:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.662	3944296	21.059 ug/ml
Spiked Amount	50.000		Recovery =	42.12%
12) S	1-chlorooctadecane (S...	13.096	3385642	21.439 ug/ml
Spiked Amount	50.000		Recovery =	42.88%
	Target Compounds			
1) T	n-Nonane (C9)	3.400	2587945	20.188 ug/ml
2) T	n-Decane (C10)	4.472	2696976	20.296 ug/ml
3) T	A~Naphthalene (C11.7)	6.066	3010987	20.283 ug/ml
4) T	n-Dodecane (C12)	6.495	2862396	20.519 ug/ml
5) T	A~2-methylnaphthalene...	7.124	3005230	20.355 ug/ml
6) T	n-Tetradecane (C14)	8.292	3075270	20.734 ug/ml
7) T	n-Hexadecane (C16)	9.895	3478786	21.080 ug/ml
8) T	n-Octadecane (C18)	11.339	3824558	21.460 ug/ml
10) T	n-Eicosane (C20)	12.650	3869114	21.482 ug/ml
11) T	n-Heneicosane (C21)	13.262	3873195	21.480 ug/ml
13) T	n-Docosane (C22)	13.849	3899823	21.466 ug/ml
14) T	n-Tetracosane (C24)	14.952	3930964	21.364 ug/ml
15) T	n-Hexacosane (C26)	15.975	3861498	21.268 ug/ml
16) T	n-Octacosane (C28)	16.926	3741360	21.194 ug/ml
17) T	n-Tricontane (C30)	17.814	3698274	21.129 ug/ml
18) T	n-Dotriacontane (C32)	18.647	3416454	21.117 ug/ml
19) T	n-Tetratriacontane (C34)	19.431	2923117	20.916 ug/ml
20) T	n-Hexatriacontane (C36)	20.170	2353381	20.845 ug/ml
21) T	n-Octatriacontane (C38)	20.932	1955011	20.266 ug/ml
22) T	n-Tetracontane (C40)	21.891	1713231	19.892 ug/ml

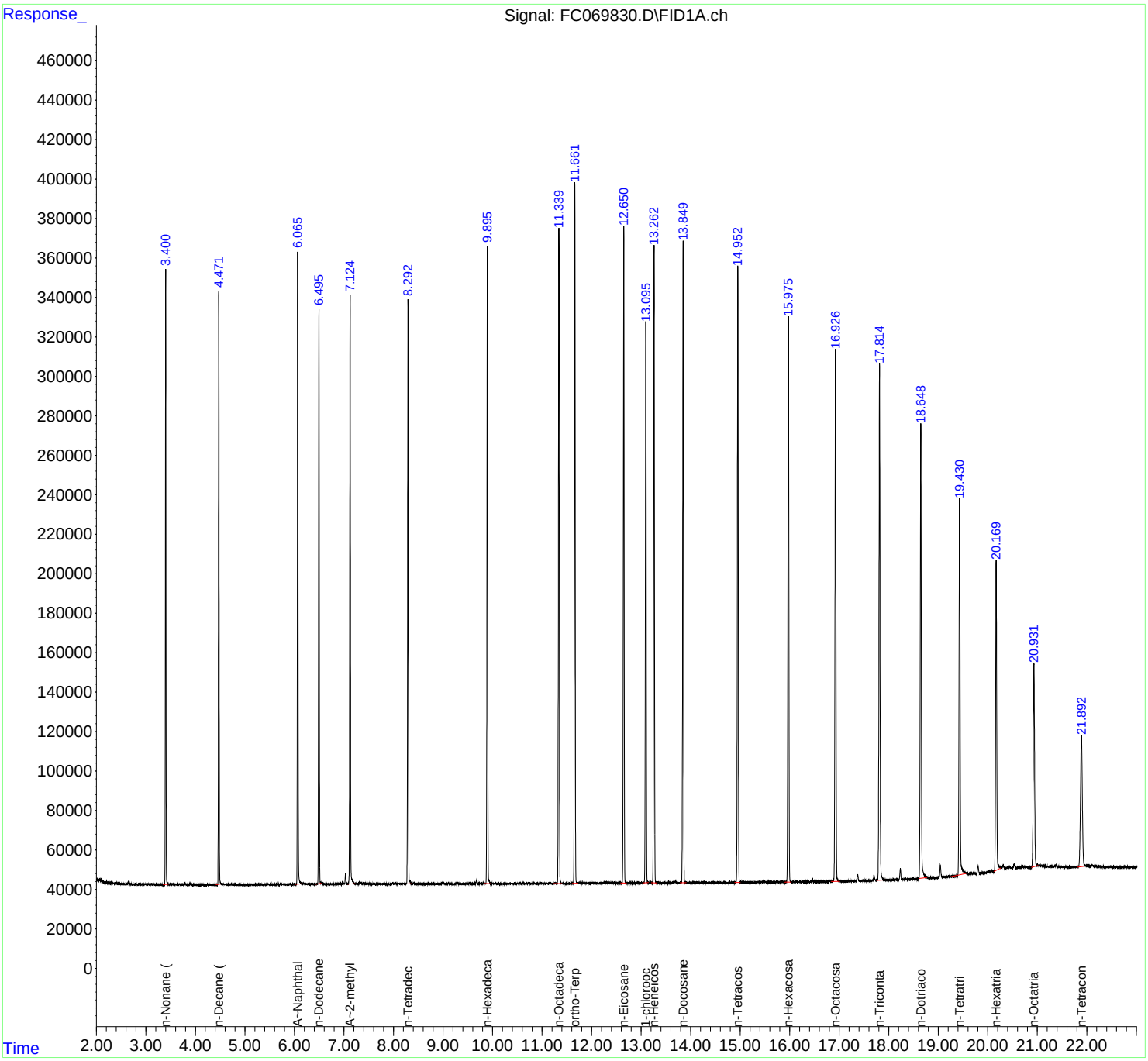
(f)=RT Delta > 1/2 Window (m)=manual int.

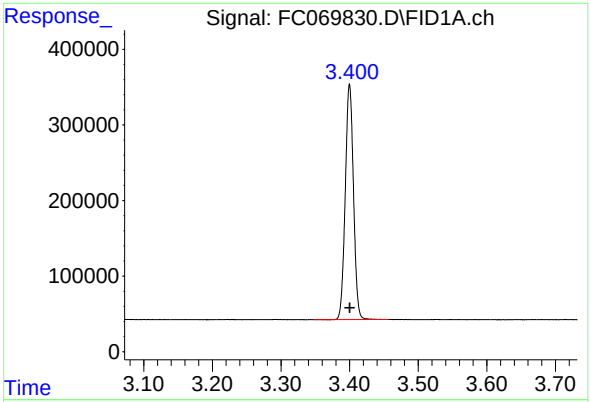
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069830.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 14:19
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 23 14:57:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

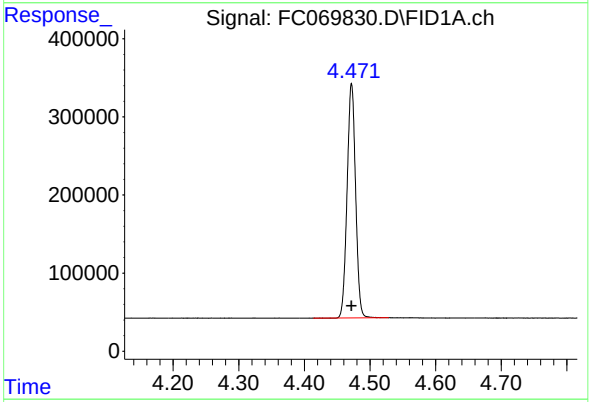




#1 n-Nonane (C9)

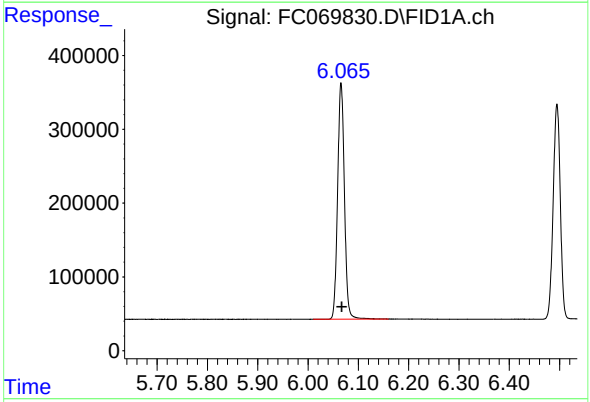
R.T.: 3.400 min
Delta R.T.: 0.000 min
Response: 2587945
Conc: 20.19 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



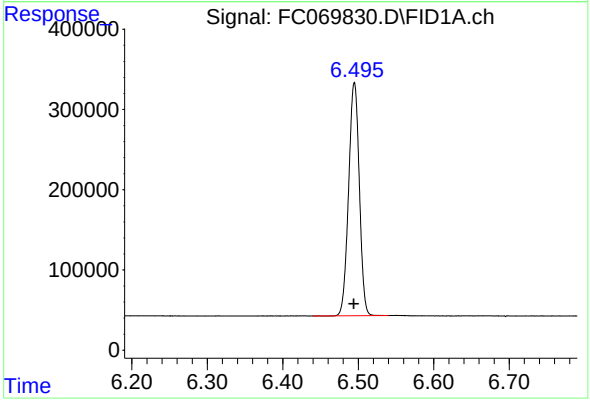
#2 n-Decane (C10)

R.T.: 4.472 min
Delta R.T.: 0.000 min
Response: 2696976
Conc: 20.30 ug/ml



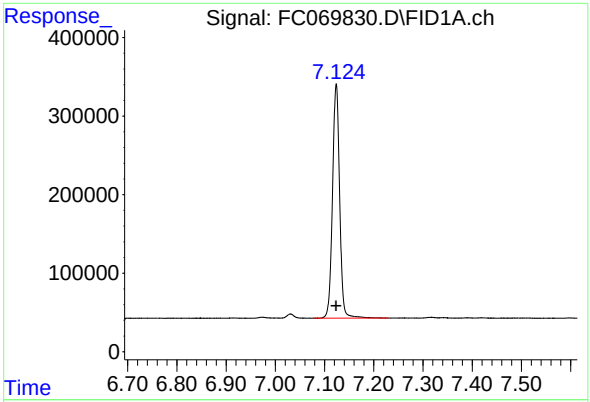
#3 A~Naphthalene (C11.7)

R.T.: 6.066 min
Delta R.T.: 0.000 min
Response: 3010987
Conc: 20.28 ug/ml



#4 n-Dodecane (C12)

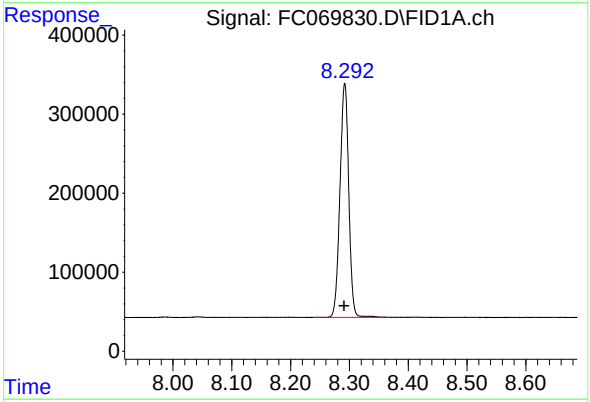
R.T.: 6.495 min
Delta R.T.: 0.000 min
Response: 2862396
Conc: 20.52 ug/ml



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

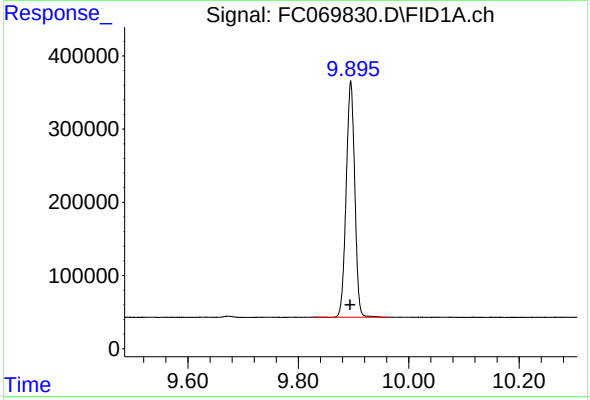
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 3005230
Conc: 20.35 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



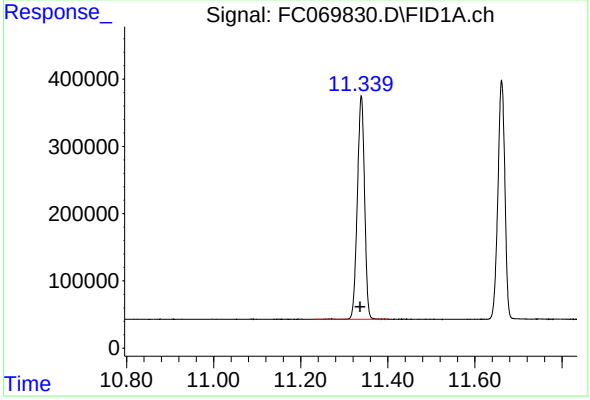
#6 n-Tetradecane (C14)

R.T.: 8.292 min
Delta R.T.: 0.001 min
Response: 3075270
Conc: 20.73 ug/ml



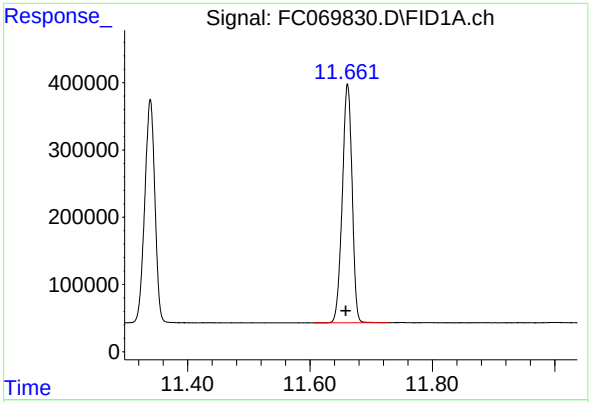
#7 n-Hexadecane (C16)

R.T.: 9.895 min
Delta R.T.: 0.001 min
Response: 3478786
Conc: 21.08 ug/ml



#8 n-Octadecane (C18)

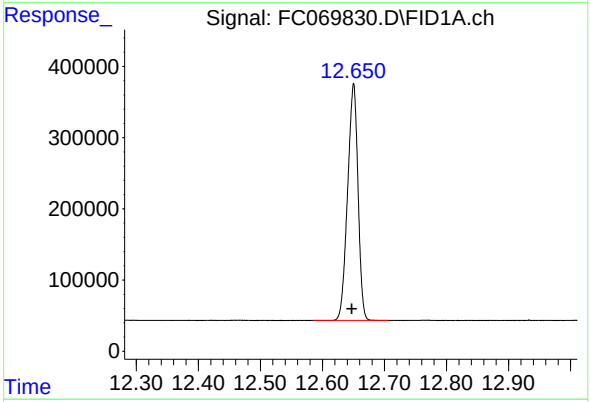
R.T.: 11.339 min
Delta R.T.: 0.003 min
Response: 3824558
Conc: 21.46 ug/ml



#9 ortho-Terphenyl (SURR)

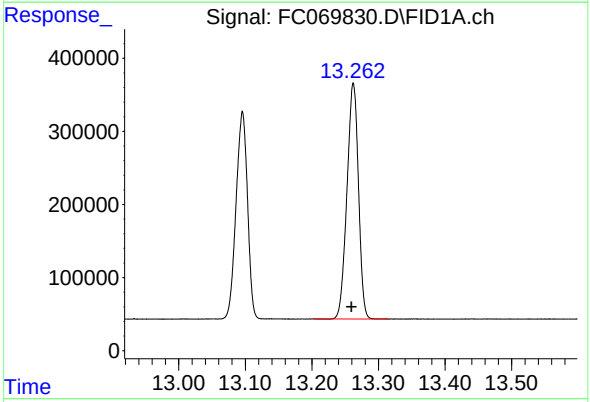
R.T.: 11.662 min
Delta R.T.: 0.003 min
Response: 3944296
Conc: 21.06 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



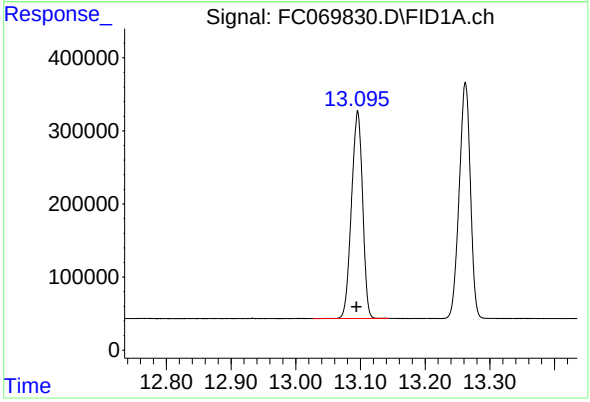
#10 n-Eicosane (C20)

R.T.: 12.650 min
Delta R.T.: 0.003 min
Response: 3869114
Conc: 21.48 ug/ml



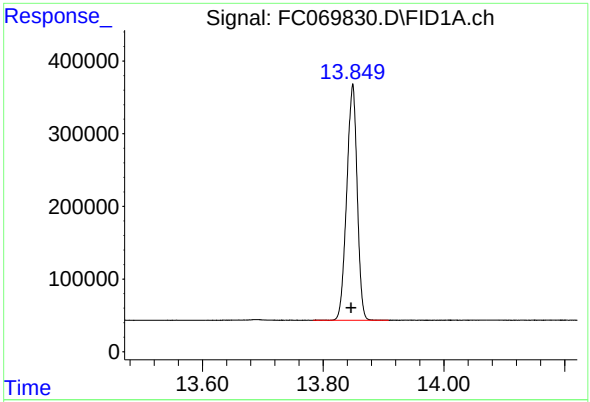
#11 n-Heneicosane (C21)

R.T.: 13.262 min
Delta R.T.: 0.003 min
Response: 3873195
Conc: 21.48 ug/ml



#12 1-chlorooctadecane (SURR)

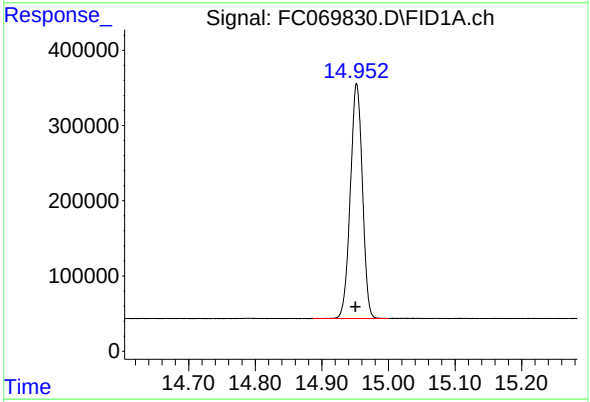
R.T.: 13.096 min
Delta R.T.: 0.002 min
Response: 3385642
Conc: 21.44 ug/ml



#13 n-Docosane (C22)

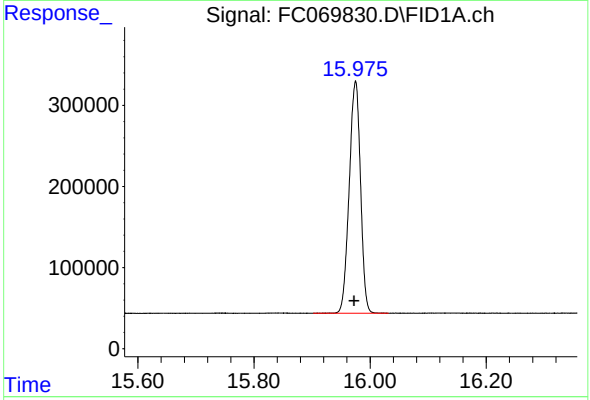
R.T.: 13.849 min
Delta R.T.: 0.002 min
Response: 3899823
Conc: 21.47 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



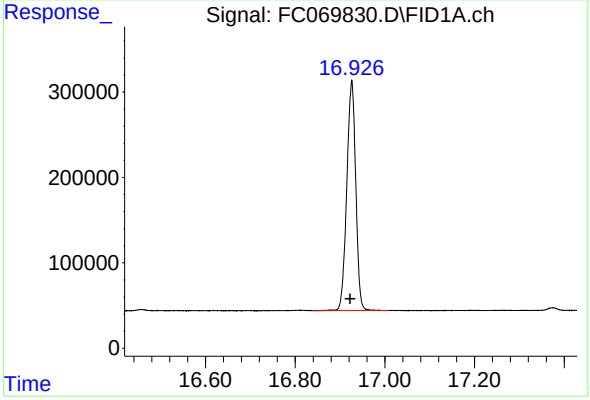
#14 n-Tetracosane (C24)

R.T.: 14.952 min
Delta R.T.: 0.002 min
Response: 3930964
Conc: 21.36 ug/ml



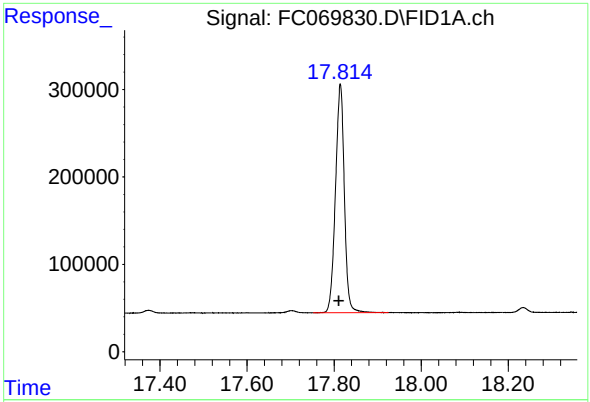
#15 n-Hexacosane (C26)

R.T.: 15.975 min
Delta R.T.: 0.002 min
Response: 3861498
Conc: 21.27 ug/ml



#16 n-Octacosane (C28)

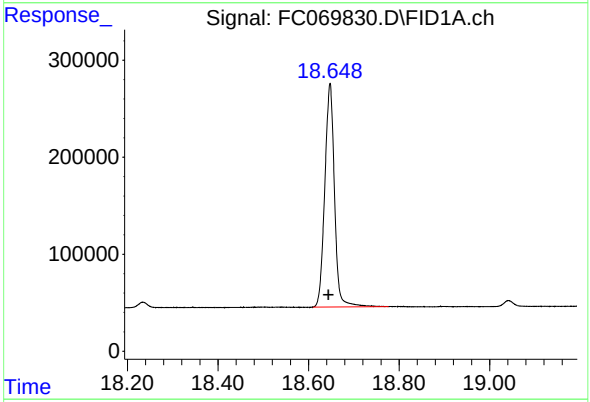
R.T.: 16.926 min
Delta R.T.: 0.003 min
Response: 3741360
Conc: 21.19 ug/ml



#17 n-Tricontane (C30)

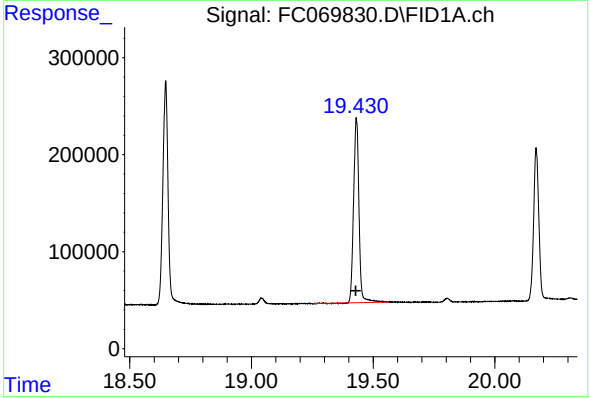
R.T.: 17.814 min
Delta R.T.: 0.003 min
Response: 3698274
Conc: 21.13 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



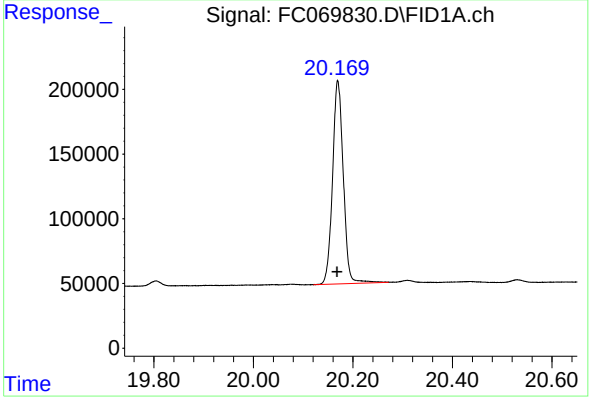
#18 n-Dotriacontane (C32)

R.T.: 18.647 min
Delta R.T.: 0.004 min
Response: 3416454
Conc: 21.12 ug/ml



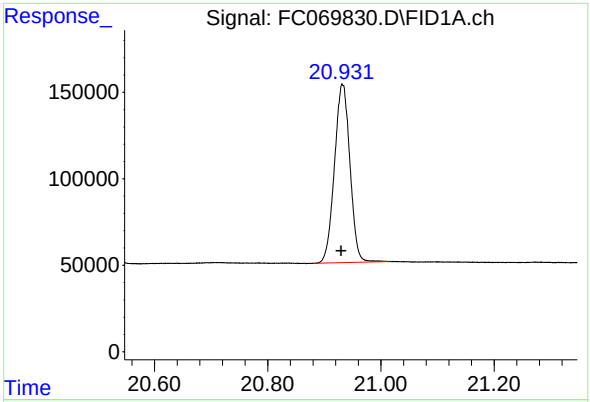
#19 n-Tetratriacontane (C34)

R.T.: 19.431 min
Delta R.T.: 0.003 min
Response: 2923117
Conc: 20.92 ug/ml



#20 n-Hexatriacontane (C36)

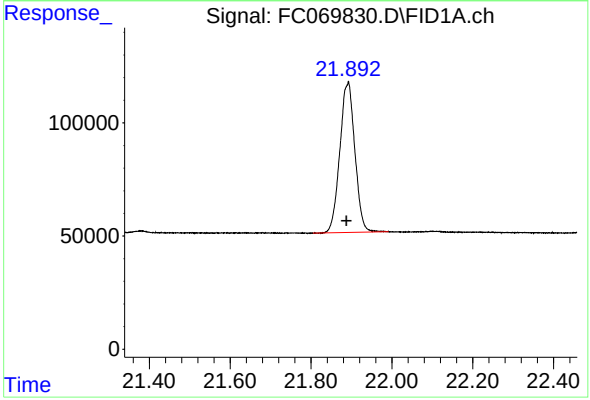
R.T.: 20.170 min
Delta R.T.: 0.001 min
Response: 2353381
Conc: 20.84 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.932 min
Delta R.T.: 0.002 min
Response: 1955011
Conc: 20.27 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.891 min
Delta R.T.: 0.003 min
Response: 1713231
Conc: 19.89 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069830.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 14:19
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 092325.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	3.400	3.347	3.457	BB	311244	2587945	65.61%	3.639%
2	4.472	4.413	4.528	BB	300413	2696976	68.38%	3.793%
3	6.066	6.010	6.160	BB	320489	3010987	76.34%	4.234%
4	6.495	6.440	6.540	BB	291119	2862396	72.57%	4.025%
5	7.124	7.077	7.230	BB	298154	3005230	76.19%	4.226%
6	8.292	8.238	8.367	BB	296362	3075270	77.97%	4.325%
7	9.895	9.827	9.963	BB	322917	3478786	88.20%	4.892%
8	11.339	11.228	11.402	BB	332423	3824558	96.96%	5.379%
9	11.662	11.605	11.728	BB	354767	3944296	100.00%	5.547%
10	12.650	12.585	12.707	BB	333811	3869114	98.09%	5.441%
11	13.096	13.027	13.143	BB	283933	3385642	85.84%	4.761%
12	13.262	13.202	13.315	BB	322849	3873195	98.20%	5.447%
13	13.849	13.783	13.908	BB	323771	3899823	98.87%	5.484%
14	14.952	14.887	15.000	BB	312322	3930964	99.66%	5.528%
15	15.975	15.902	16.032	BB	287056	3861498	97.90%	5.431%
16	16.926	16.840	17.008	BB	271021	3741360	94.85%	5.262%
17	17.814	17.752	17.925	BB	261257	3698274	93.76%	5.201%
18	18.647	18.610	18.777	BB	230553	3416454	86.62%	4.805%
19	19.431	19.253	19.563	BB	188373	2923117	74.11%	4.111%
20	20.170	20.120	20.272	BB	156767	2353381	59.67%	3.310%
21	20.932	20.880	21.013	BB	103062	1955011	49.57%	2.749%
22	21.891	21.805	21.992	BB	66476	1713231	43.44%	2.409%
			Sum of corrected areas:			71107505		

Aliphatic EPH 092325.M Tue Sep 23 15:02:31 2025

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

Inital Calibration Report for SequenceID : FD090425AR

AreaCount

Parameter Range	FD049718.D	FD049719.D	FD049720.D	FD049721.D	FD049722.D	
Aromatic C10-C12	22703296.000	11086087.000	4643611.000	2277248.000	1259509.000	
Aromatic C12-C16	39984460.000	19661953.000	8193867.000	4001323.000	2175378.000	
Aromatic C16-C21	53345381.000	26489360.000	11024855.000	5315893.000	2846688.000	
Aromatic C21-C36	100704025.000	50911530.000	21618248.000	10600307.000	5791358.000	
Aromatic EPH	216737162.000	108148930.000	45480581.000	22194771.000	12072933.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	116056.185	5.027				
Aromatic C12-C16	135865.6606664	4.034				
Aromatic C16-C21	135770.533	3.132				
Aromatic C21-C36	118321.9011106	5.659				
Aromatic EPH	124871.5885552	4.611				

Concentration

Parameter Range	FD049718.D	FD049719.D	FD049720.D	FD049721.D	FD049722.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	FD049718.D	FD049719.D	FD049720.D	FD049721.D	FD049722.D	
Aromatic C10-C12	113516.480000	110860.870000	116090.275000	113862.400000	125950.900000	
Aromatic C12-C16	133281.533333	131079.686666	136564.450000	133377.433333	145025.200000	
Aromatic C16-C21	133363.452500	132446.800000	137810.687500	132897.325000	142334.400000	
Aromatic C21-C36	111893.361111	113136.733333	120101.377777	117781.188888	128696.844444	
Aromatic EPH	120409.534444	120165.477777	126334.947222	123304.283333	134143.700000	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049718.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 09:36
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

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025

Integration File: autoint1.e
Quant Time: Sep 05 06:20:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 2025
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...	7.703	11112746	98.565 ug/ml
Spiked Amount	50.000		Recovery =	197.13%
6) S	2-Flurobiphenyl (SURR)	8.569	7949975	98.006 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	196.01%#
11) S	ortho-Terphenyl (SURR)	11.617	13622959	95.092 ug/ml
Spiked Amount	50.000		Recovery =	190.18%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.491	10441049	97.009 ug/ml
2) T	Naphthalene (C11.7)	6.037	12262247	98.452 ug/ml
3) T	2-Methylnaphthalene (...	7.093	12922112	98.860 ug/ml
5) T	Acenaphthylene (C15.06)	8.373	13531887	97.031 ug/ml
7) T	Acenaphthene (C15.5)	8.672	13530461	96.977 ug/ml
8) T	Flouorene (C16.55)	9.453	13563710	96.723 ug/ml
9) T	Phenanthrene (C19.36)	10.853	13732189	96.729 ug/ml
10) T	Anthracene (C19.43)	10.930	12946823	96.523 ug/ml
12) T	Fluoranthene (C21.85)	12.668	13257933	97.088 ug/ml
13) T	Pyrene (C20.8)	12.967	13102659	97.119 ug/ml
14) T	Benzo[a]anthracene (C...	14.839	11657187	96.783 ug/ml
15) T	Chrysene (C27.41)	14.887	11738473	96.196 ug/ml
16) T	benzo[b]fluoranthene ...	16.393	11363538	94.070 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.433	10483846	91.683 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	16.775	10977142	92.154 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.141	10414194	93.978 ug/ml
20) T	Dibenz[a,h]anthracene...	18.181	10061727	85.544 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.403	10749985	90.198 ug/ml

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

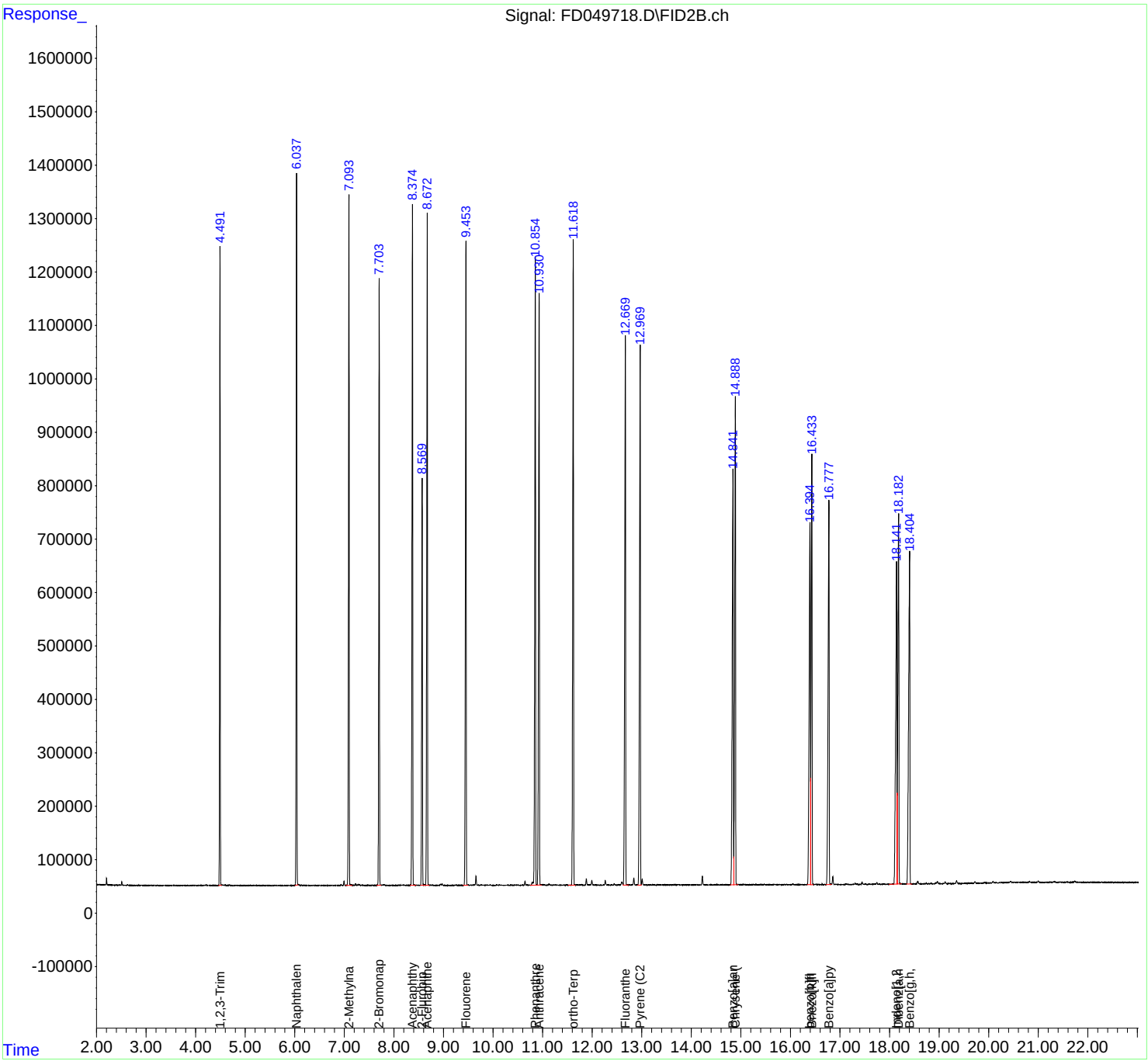
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049718.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 09:36
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

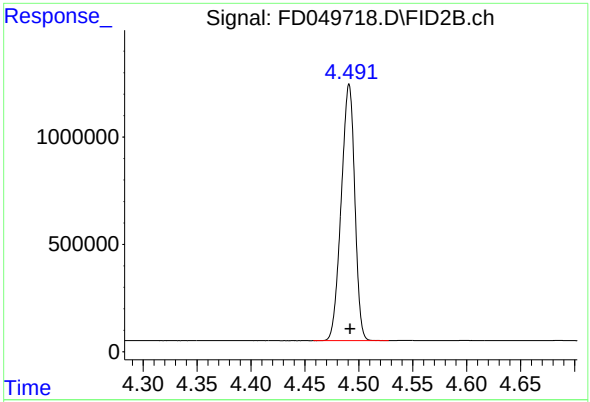
Integration File: autoint1.e
Quant Time: Sep 05 06:20:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025





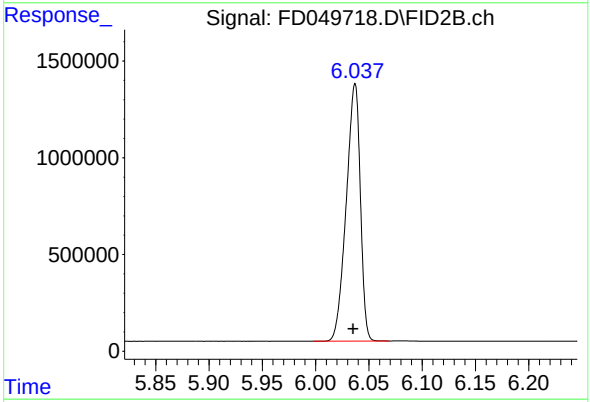
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.491 min
Delta R.T.: -0.001 min
Response: 10441049
Conc: 97.01 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

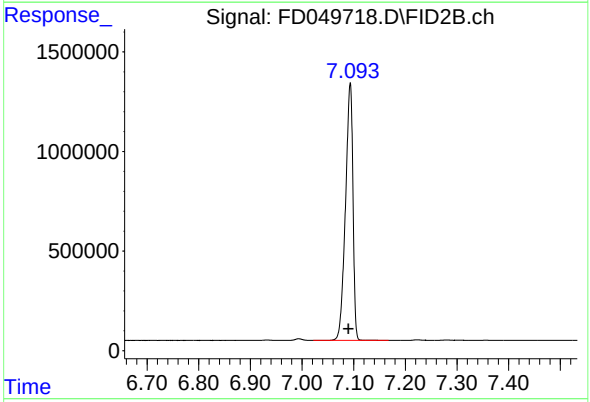
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025



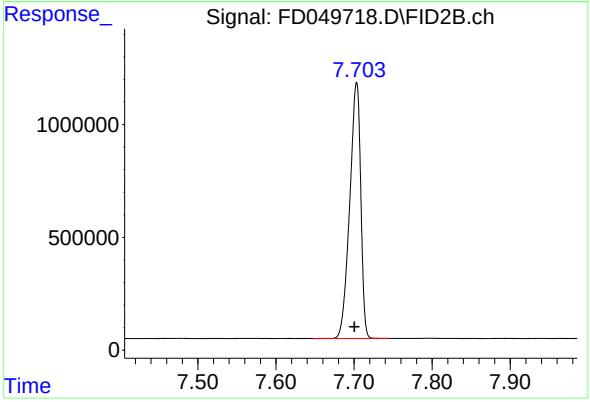
#2 Naphthalene (C11.7)

R.T.: 6.037 min
Delta R.T.: 0.001 min
Response: 12262247
Conc: 98.45 ug/ml



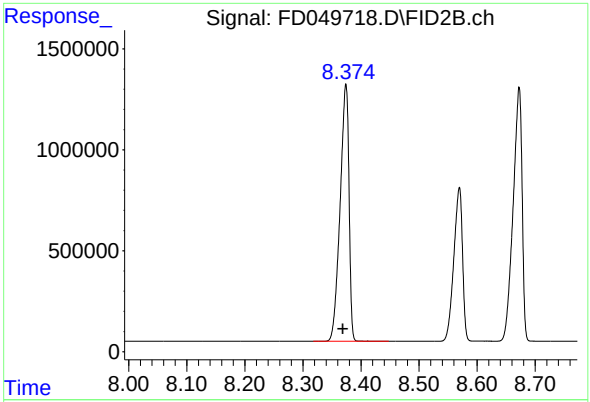
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.093 min
Delta R.T.: 0.003 min
Response: 12922112
Conc: 98.86 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.703 min
Delta R.T.: 0.002 min
Response: 11112746
Conc: 98.56 ug/ml



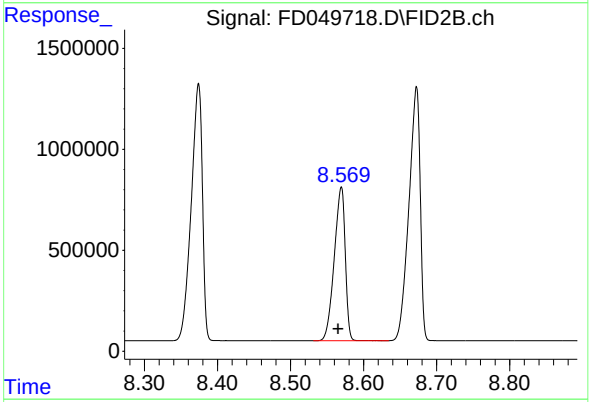
#5 Acenaphthylene (C15.06)

R.T.: 8.373 min
Delta R.T.: 0.005 min
Response: 13531887
Conc: 97.03 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

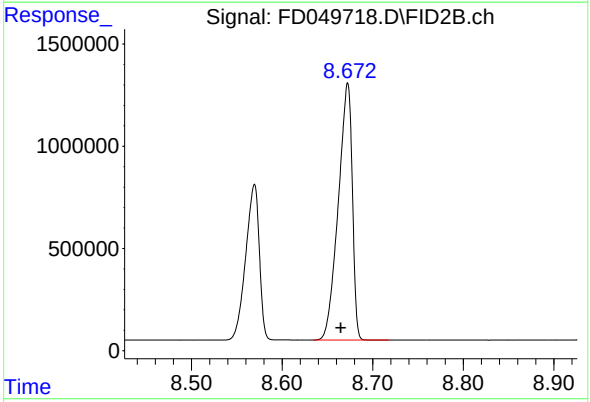
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025



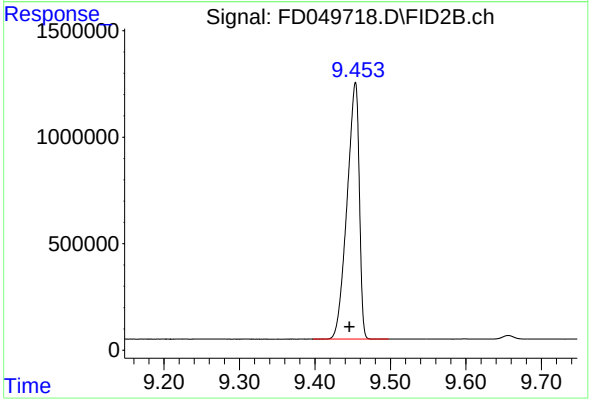
#6 2-Flurobiphenyl (SURR)

R.T.: 8.569 min
Delta R.T.: 0.004 min
Response: 7949975
Conc: 98.01 ug/ml



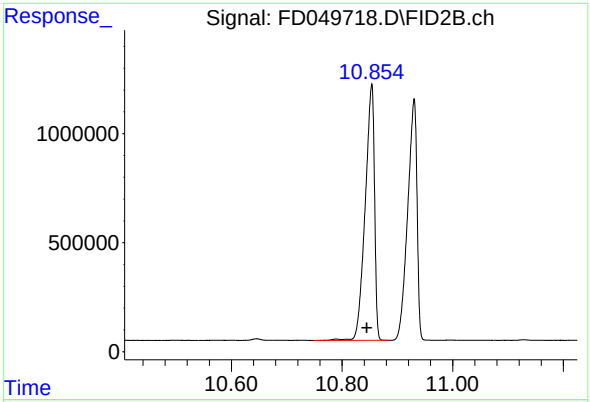
#7 Acenaphthene (C15.5)

R.T.: 8.672 min
Delta R.T.: 0.007 min
Response: 13530461
Conc: 96.98 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.453 min
Delta R.T.: 0.007 min
Response: 13563710
Conc: 96.72 ug/ml



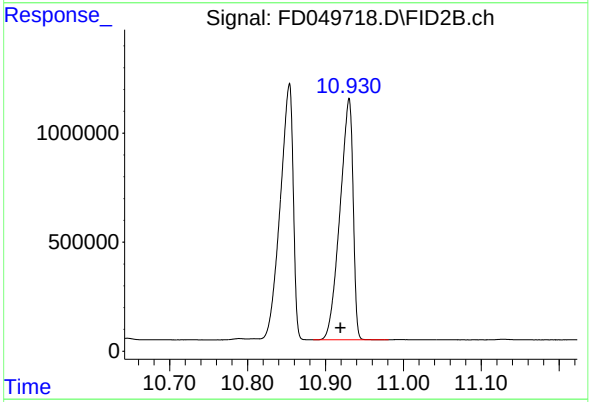
#9 Phenanthrene (C19.36)

R.T.: 10.853 min
Delta R.T.: 0.008 min
Response: 13732189
Conc: 96.73 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

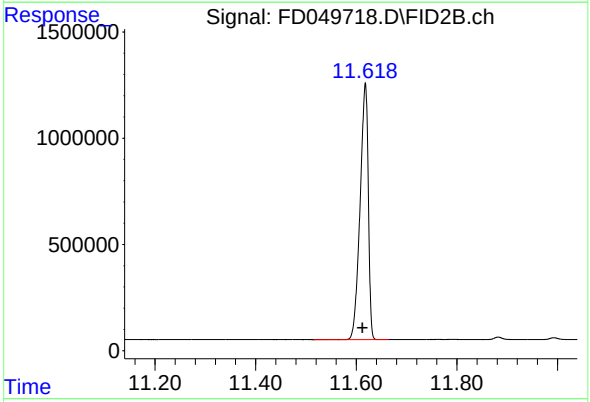
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025



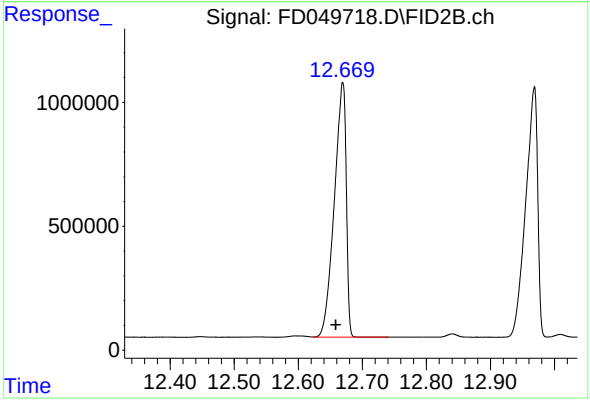
#10 Anthracene (C19.43)

R.T.: 10.930 min
Delta R.T.: 0.010 min
Response: 12946823
Conc: 96.52 ug/ml



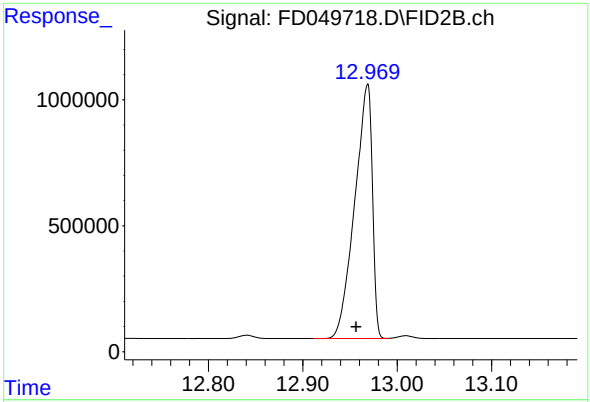
#11 ortho-Terphenyl (SURR)

R.T.: 11.617 min
Delta R.T.: 0.005 min
Response: 13622959
Conc: 95.09 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.668 min
Delta R.T.: 0.010 min
Response: 13257933
Conc: 97.09 ug/ml



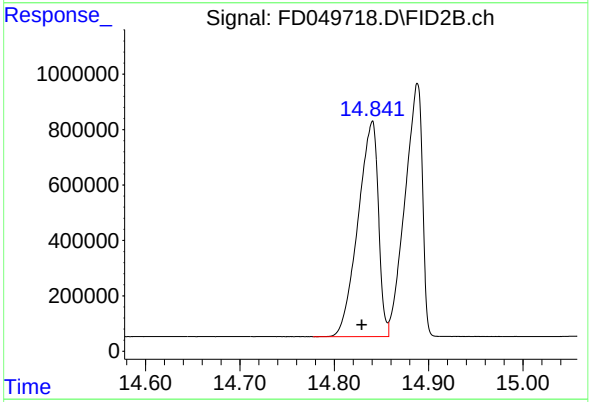
#13 Pyrene (C20.8)

R.T.: 12.967 min
Delta R.T.: 0.011 min
Response: 13102659
Conc: 97.12 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

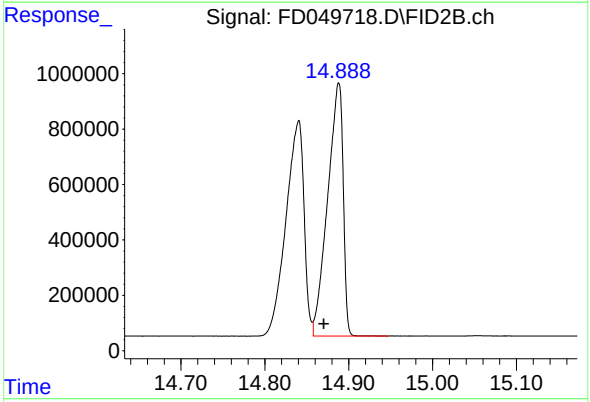
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025



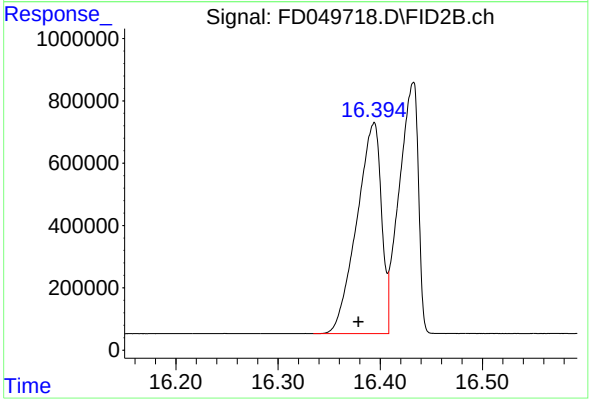
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.839 min
Delta R.T.: 0.010 min
Response: 11657187
Conc: 96.78 ug/ml



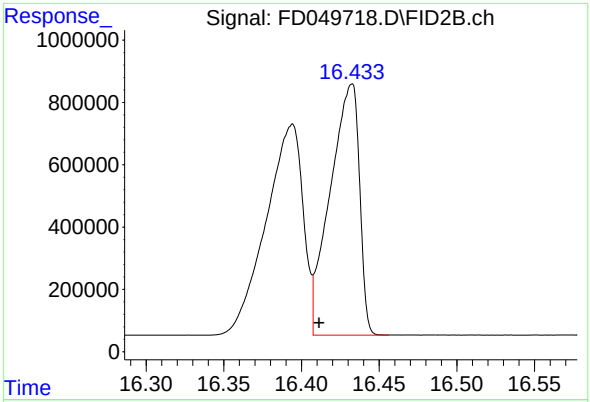
#15 Chrysene (C27.41)

R.T.: 14.887 min
Delta R.T.: 0.017 min
Response: 11738473
Conc: 96.20 ug/ml



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

R.T.: 16.393 min
Delta R.T.: 0.014 min
Response: 11363538
Conc: 94.07 ug/ml



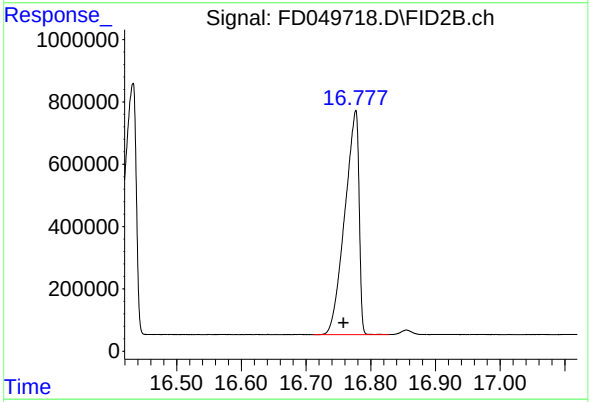
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.433 min
Delta R.T.: 0.021 min
Response: 10483846
Conc: 91.68 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

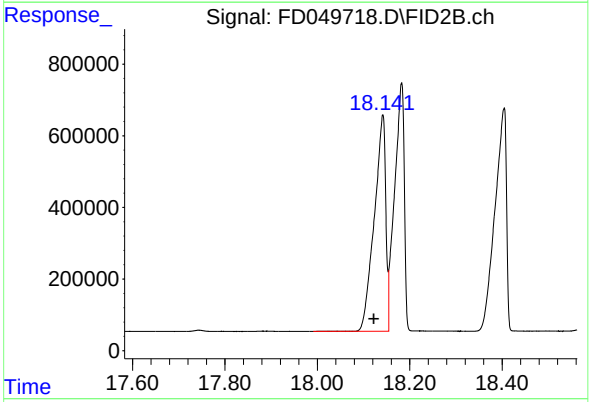
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025



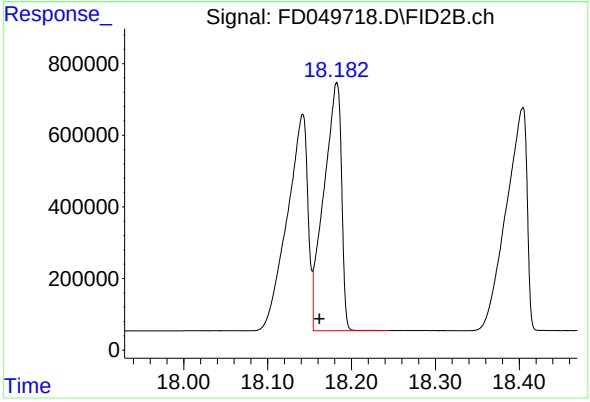
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.775 min
Delta R.T.: 0.017 min
Response: 10977142
Conc: 92.15 ug/ml



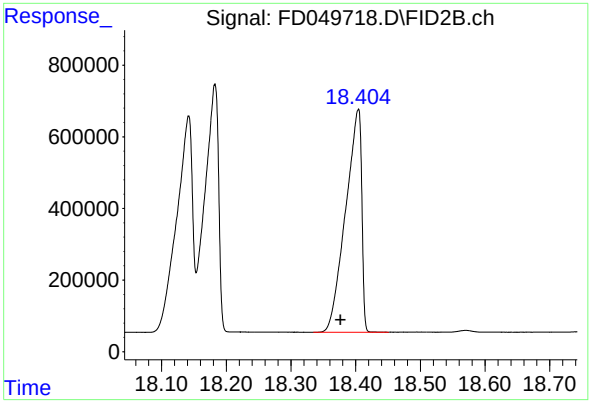
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.141 min
Delta R.T.: 0.019 min
Response: 10414194
Conc: 93.98 ug/ml



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

R.T.: 18.181 min
Delta R.T.: 0.020 min
Response: 10061727
Conc: 85.54 ug/ml



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

R.T.: 18.403 min
Delta R.T.: 0.026 min
Response: 10749985
Conc: 90.20 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025

Instrument :
FID_D
LabSampleId :
100 PPM AROMATIC HC STD1

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD
Data File : FD049718.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 09:36
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 090425.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	4.491	4.458	4.528	BV	1198692	10441049	76.03%	4.186%
2	6.037	5.998	6.069	BV	1355527	12262247	89.30%	4.916%
3	7.093	7.022	7.168	PB	1320087	12922112	94.10%	5.181%
4	7.703	7.648	7.744	BB	1158899	11112746	80.92%	4.456%
5	8.373	8.318	8.448	BB	1288669	13531887	98.54%	5.426%
6	8.569	8.531	8.634	BV	749339	7949975	57.89%	3.187%
7	8.672	8.634	8.718	VB	1240077	13530461	98.53%	5.425%
8	9.453	9.398	9.498	BB	1236783	13563710	98.77%	5.438%
9	10.853	10.748	10.884	BV	1210003	13732189	100.00%	5.506%
10	10.930	10.884	10.981	VV	1130848	12946823	94.28%	5.191%
11	11.617	11.514	11.664	BB	1208922	13622959	99.20%	5.462%
12	12.668	12.623	12.741	VB	1018056	13257933	96.55%	5.316%
13	12.967	12.911	12.991	BV	1008591	13102659	95.42%	5.253%
14	14.839	14.778	14.858	BV	792237	11657187	84.89%	4.674%
15	14.887	14.858	14.948	VB	920593	11738473	85.48%	4.706%
16	16.393	16.334	16.408	BV	683944	11363538	82.75%	4.556%
17	16.431	16.408	16.494	VB	801715	10473293	76.27%	4.199%
18	16.775	16.711	16.828	BV	704214	10977142	79.94%	4.401%
19	18.141	17.991	18.154	BV	604763	10414194	75.84%	4.175%
20	18.181	18.154	18.244	VB	690310	10061727	73.27%	4.034%
21	18.403	18.334	18.451	BB	635209	10749985	78.28%	4.310%

Sum of corrected areas: 249412288

Aromatic EPH 090425.M Fri Sep 05 06:43:24 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049719.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 10:16
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: Sep 05 06:20:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 2025
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...	7.699	5439535	48.246 ug/ml
Spiked Amount	50.000		Recovery =	96.49%
6) S	2-Flurobiphenyl (SURR)	8.564	3904709	48.137 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	96.27%
11) S	ortho-Terphenyl (SURR)	11.611	6776278	47.300 ug/ml
Spiked Amount	50.000		Recovery =	94.60%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.488	5097348	47.360 ug/ml
2) T	Naphthalene (C11.7)	6.033	5988739	48.083 ug/ml
3) T	2-Methylnaphthalene (...	7.088	6309415	48.270 ug/ml
5) T	Acenaphthylene (C15.06)	8.368	6676398	47.873 ug/ml
7) T	Acenaphthene (C15.5)	8.665	6676140	47.850 ug/ml
8) T	Flouorene (C16.55)	9.446	6718389	47.909 ug/ml
9) T	Phenanthrene (C19.36)	10.845	6815270	48.006 ug/ml
10) T	Anthracene (C19.43)	10.920	6448326	48.075 ug/ml
12) T	Fluoranthene (C21.85)	12.660	6577964	48.171 ug/ml
13) T	Pyrene (C20.8)	12.958	6507375	48.234 ug/ml
14) T	Benzo[a]anthracene (C...	14.831	5800499	48.158 ug/ml
15) T	Chrysene (C27.41)	14.875	5856393	47.993 ug/ml
16) T	benzo[b]fluoranthene ...	16.382	5727605	47.414 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.417	5322884	46.550 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.762	5566382	46.730 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.127	5209247	47.008 ug/ml
20) T	Dibenz[a,h]anthracene...	18.167	5337048	45.375 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.385	5513508	46.261 ug/ml

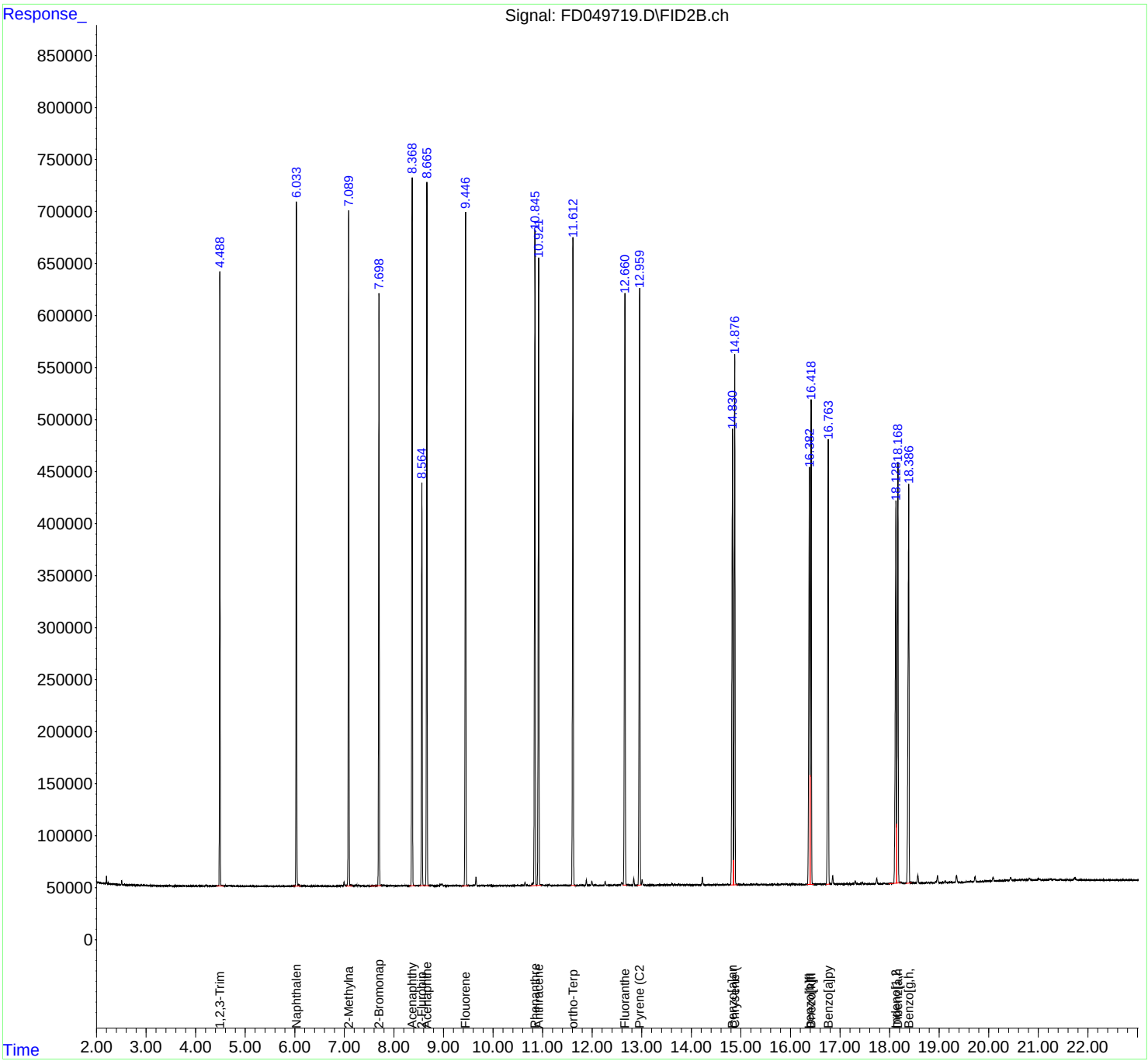
(f)=RT Delta > 1/2 Window (m)=manual int.

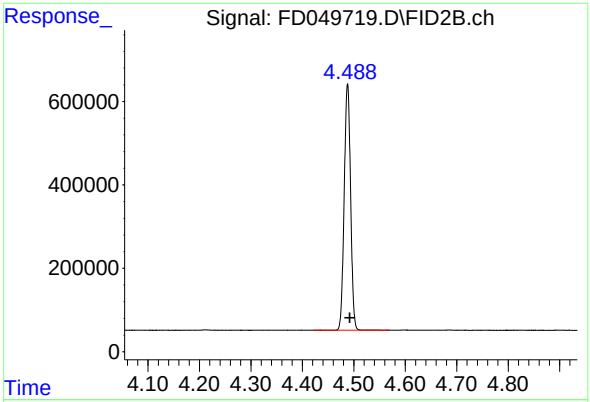
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049719.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 10:16
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 05 06:20:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 2025
Response via : Initial Calibration
Integrator: ChemStation

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

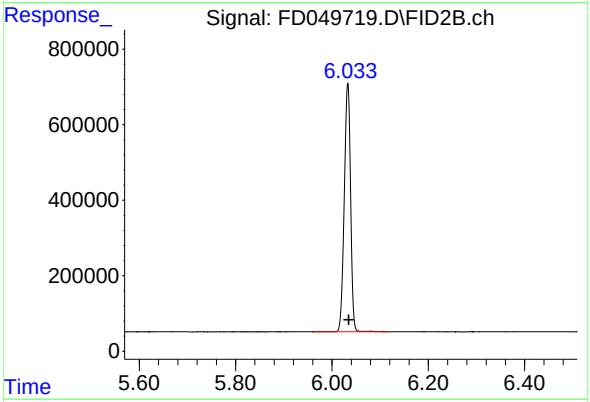




#1 1,2,3-Trimethylbenzene (C10.1)

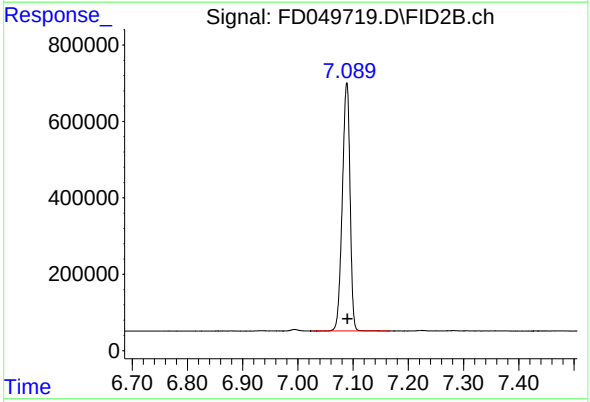
R.T.: 4.488 min
Delta R.T.: -0.004 min
Response: 5097348
Conc: 47.36 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



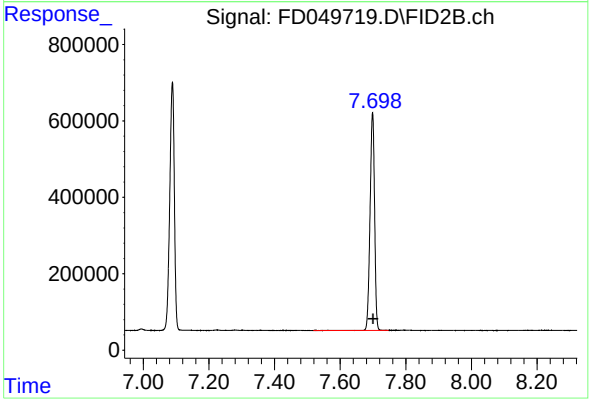
#2 Naphthalene (C11.7)

R.T.: 6.033 min
Delta R.T.: -0.002 min
Response: 5988739
Conc: 48.08 ug/ml



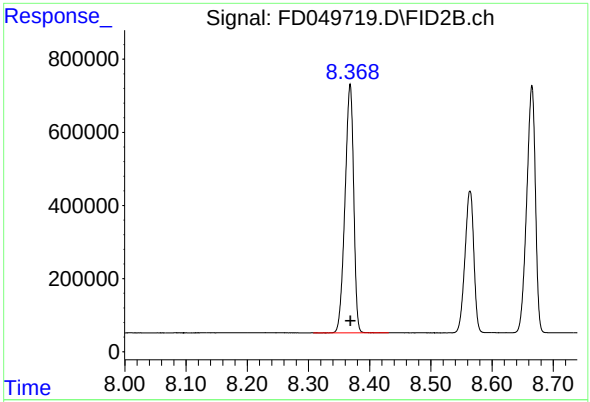
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.088 min
Delta R.T.: -0.001 min
Response: 6309415
Conc: 48.27 ug/ml



#4 2-Bromonaphthalene (SURR)

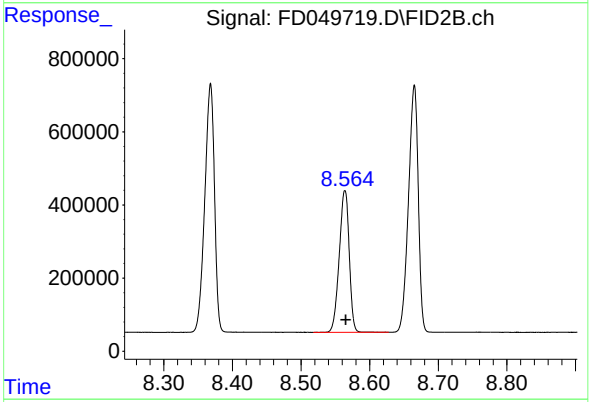
R.T.: 7.699 min
Delta R.T.: -0.002 min
Response: 5439535
Conc: 48.25 ug/ml



#5 Acenaphthylene (C15.06)

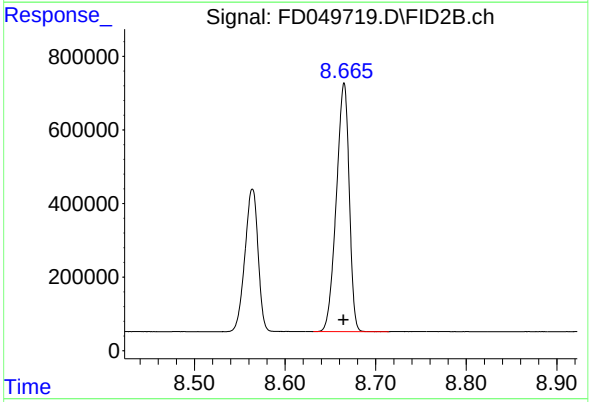
R.T.: 8.368 min
Delta R.T.: 0.000 min
Response: 6676398
Conc: 47.87 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



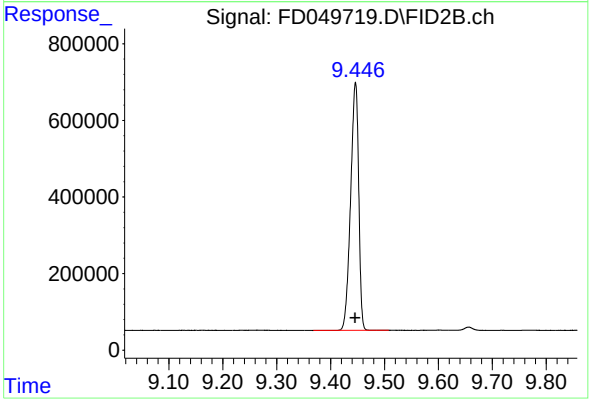
#6 2-Flurobiphenyl (SURR)

R.T.: 8.564 min
Delta R.T.: -0.001 min
Response: 3904709
Conc: 48.14 ug/ml



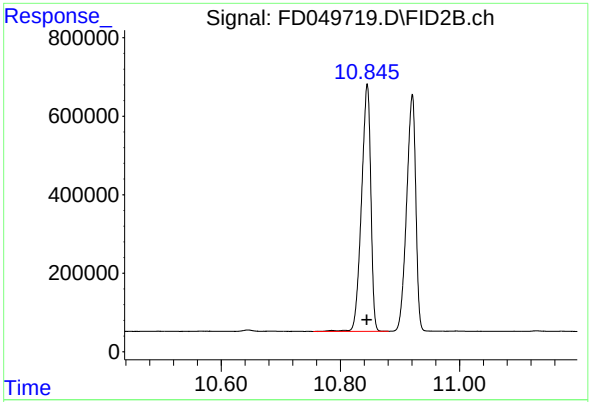
#7 Acenaphthene (C15.5)

R.T.: 8.665 min
Delta R.T.: 0.000 min
Response: 6676140
Conc: 47.85 ug/ml



#8 Flouorene (C16.55)

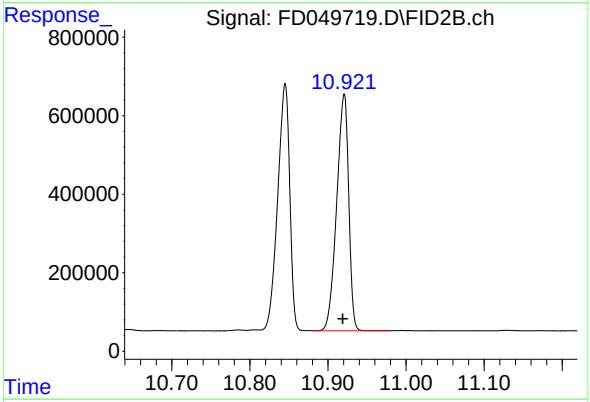
R.T.: 9.446 min
Delta R.T.: 0.000 min
Response: 6718389
Conc: 47.91 ug/ml



#9 Phenanthrene (C19.36)

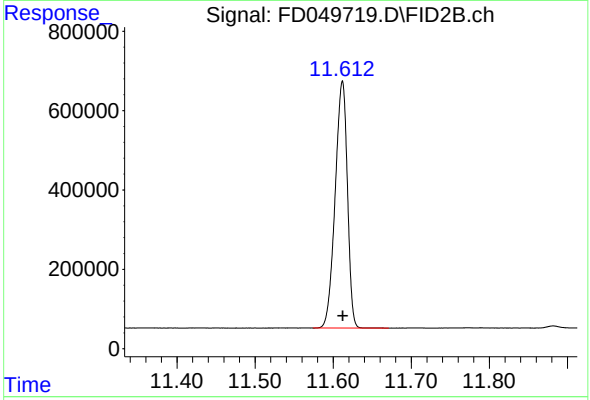
R.T.: 10.845 min
Delta R.T.: 0.000 min
Response: 6815270
Conc: 48.01 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



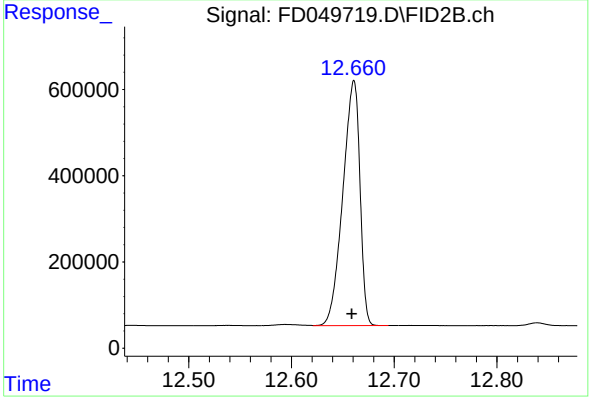
#10 Anthracene (C19.43)

R.T.: 10.920 min
Delta R.T.: 0.001 min
Response: 6448326
Conc: 48.07 ug/ml



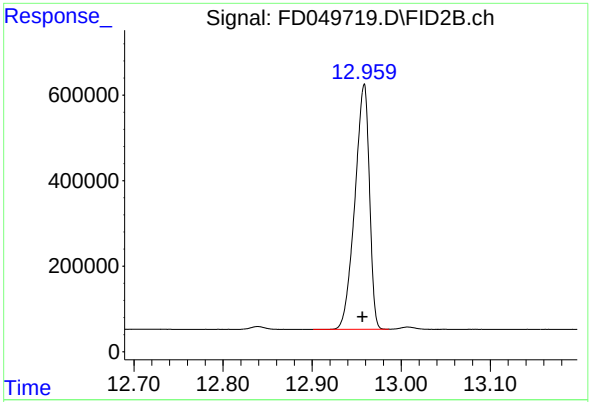
#11 ortho-Terphenyl (SURR)

R.T.: 11.611 min
Delta R.T.: 0.000 min
Response: 6776278
Conc: 47.30 ug/ml



#12 Fluoranthene (C21.85)

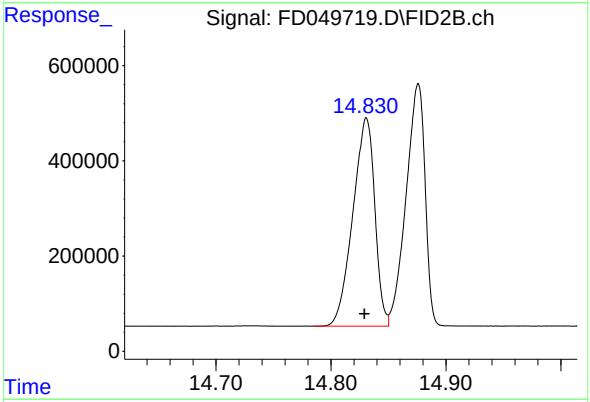
R.T.: 12.660 min
Delta R.T.: 0.002 min
Response: 6577964
Conc: 48.17 ug/ml



#13 Pyrene (C20.8)

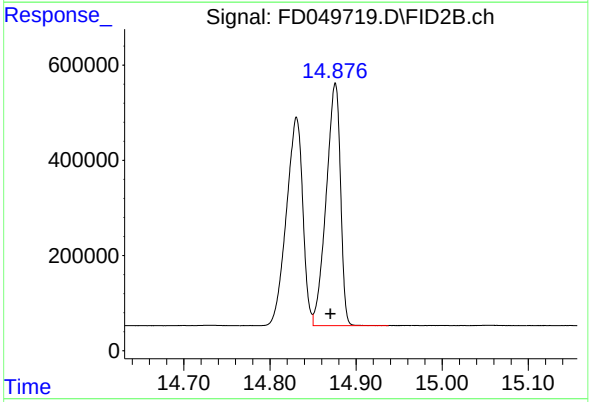
R.T.: 12.958 min
Delta R.T.: 0.001 min
Response: 6507375
Conc: 48.23 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



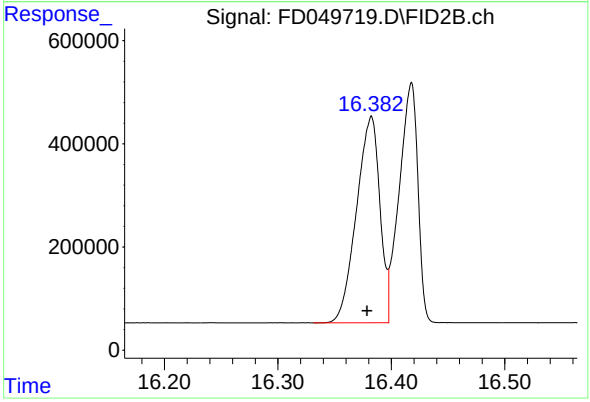
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.831 min
Delta R.T.: 0.002 min
Response: 5800499
Conc: 48.16 ug/ml



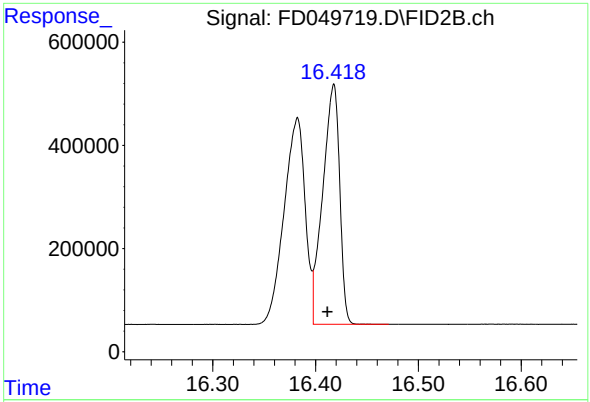
#15 Chrysene (C27.41)

R.T.: 14.875 min
Delta R.T.: 0.005 min
Response: 5856393
Conc: 47.99 ug/ml



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

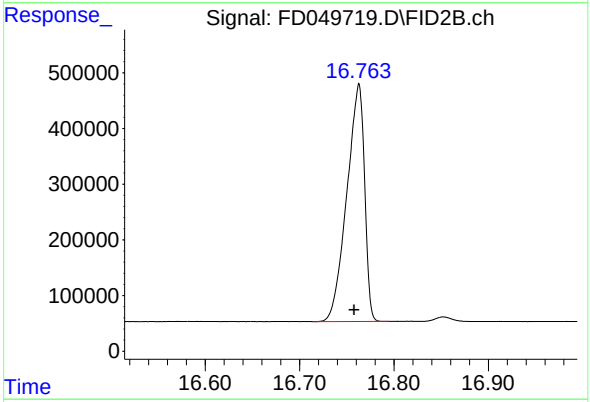
R.T.: 16.382 min
Delta R.T.: 0.003 min
Response: 5727605
Conc: 47.41 ug/ml



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

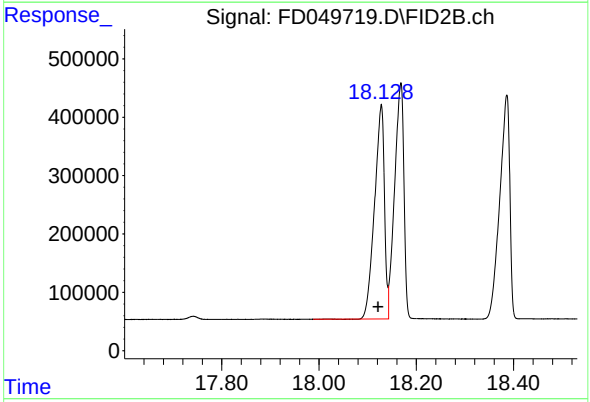
R.T.: 16.417 min
Delta R.T.: 0.006 min
Response: 5322884
Conc: 46.55 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



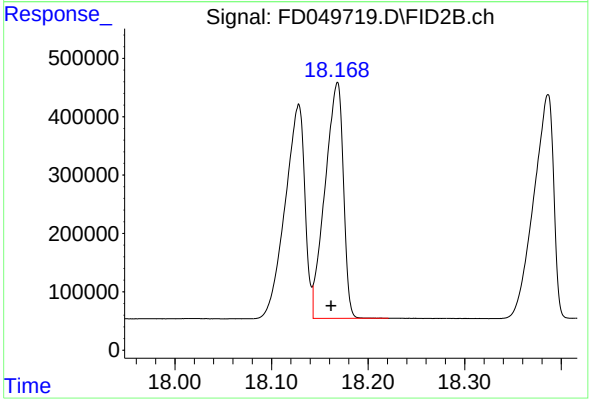
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.762 min
Delta R.T.: 0.004 min
Response: 5566382
Conc: 46.73 ug/ml



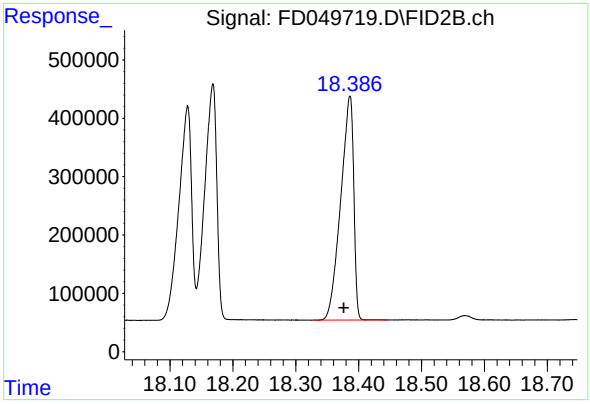
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.127 min
Delta R.T.: 0.006 min
Response: 5209247
Conc: 47.01 ug/ml



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

R.T.: 18.167 min
Delta R.T.: 0.006 min
Response: 5337048
Conc: 45.38 ug/ml



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

R.T.:	18.385 min
Delta R.T.:	0.009 min
Response:	5513508
Conc:	46.26 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049719.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 10:16
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 090425.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	4.488	4.421	4.568	BB	589718	5097348	74.79%	4.102%
2	6.033	5.961	6.118	BB	664447	5988739	87.87%	4.819%
3	7.088	7.028	7.164	BB	647592	6309415	92.58%	5.077%
4	7.699	7.518	7.748	BB	567038	5439535	79.81%	4.377%
5	8.368	8.308	8.431	BB	678832	6676398	97.96%	5.373%
6	8.564	8.518	8.628	BB	390522	3904709	57.29%	3.142%
7	8.665	8.631	8.714	BB	673258	6676140	97.96%	5.372%
8	9.446	9.368	9.508	BB	640245	6718389	98.58%	5.406%
9	10.845	10.754	10.881	BV	628583	6815270	100.00%	5.484%
10	10.920	10.881	10.978	VV	609499	6448326	94.62%	5.189%
11	11.611	11.574	11.671	BB	621060	6776278	99.43%	5.453%
12	12.660	12.621	12.694	VB	574120	6577964	96.52%	5.293%
13	12.958	12.901	12.986	BV	571912	6507375	95.48%	5.237%
14	14.831	14.784	14.850	BV	439510	5800499	85.11%	4.668%
15	14.875	14.850	14.938	VB	506198	5856393	85.93%	4.713%
16	16.382	16.331	16.398	BV	396436	5727605	84.04%	4.609%
17	16.417	16.398	16.471	VB	468851	5322884	78.10%	4.283%
18	16.762	16.714	16.794	BB	417777	5566382	81.68%	4.479%
19	18.127	17.988	18.143	BV	367702	5209247	76.43%	4.192%
20	18.167	18.143	18.221	VB	405279	5337048	78.31%	4.295%
21	18.385	18.328	18.448	BB	381726	5513508	80.90%	4.437%

Sum of corrected areas: 124269453

Aromatic EPH 090425.M Fri Sep 05 06:44:05 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049720.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 10:56
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: Sep 05 06:21:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 2025
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...	7.701	2254913	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
6) S	2-Flurobiphenyl (SURR)	8.565	1622343	20.000 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.00%
11) S	ortho-Terphenyl (SURR)	11.612	2865224	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.492	2152601	20.000 ug/ml
2) T	Naphthalene (C11.7)	6.035	2491010	20.000 ug/ml
3) T	2-Methylnaphthalene (...	7.090	2614218	20.000 ug/ml
5) T	Acenaphthylene (C15.06)	8.369	2789202	20.000 ug/ml
7) T	Acenaphthene (C15.5)	8.665	2790447	20.000 ug/ml
8) T	Flouorene (C16.55)	9.446	2804645	20.000 ug/ml
9) T	Phenanthrene (C19.36)	10.845	2839318	20.000 ug/ml
10) T	Anthracene (C19.43)	10.919	2682635	20.000 ug/ml
12) T	Fluoranthene (C21.85)	12.659	2731115	20.000 ug/ml
13) T	Pyrene (C20.8)	12.956	2698257	20.000 ug/ml
14) T	Benzo[a]anthracene (C...	14.829	2408933	20.000 ug/ml
15) T	Chrysene (C27.41)	14.870	2440531	20.000 ug/ml
16) T	benzo[b]fluoranthene ...	16.379	2415976	20.000 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.411	2286971	20.000 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.758	2382359	20.000 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.122	2216312	20.000 ug/ml
20) T	Dibenz[a,h]anthracene...	18.162	2352402	20.000 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.376	2383649	20.000 ug/ml

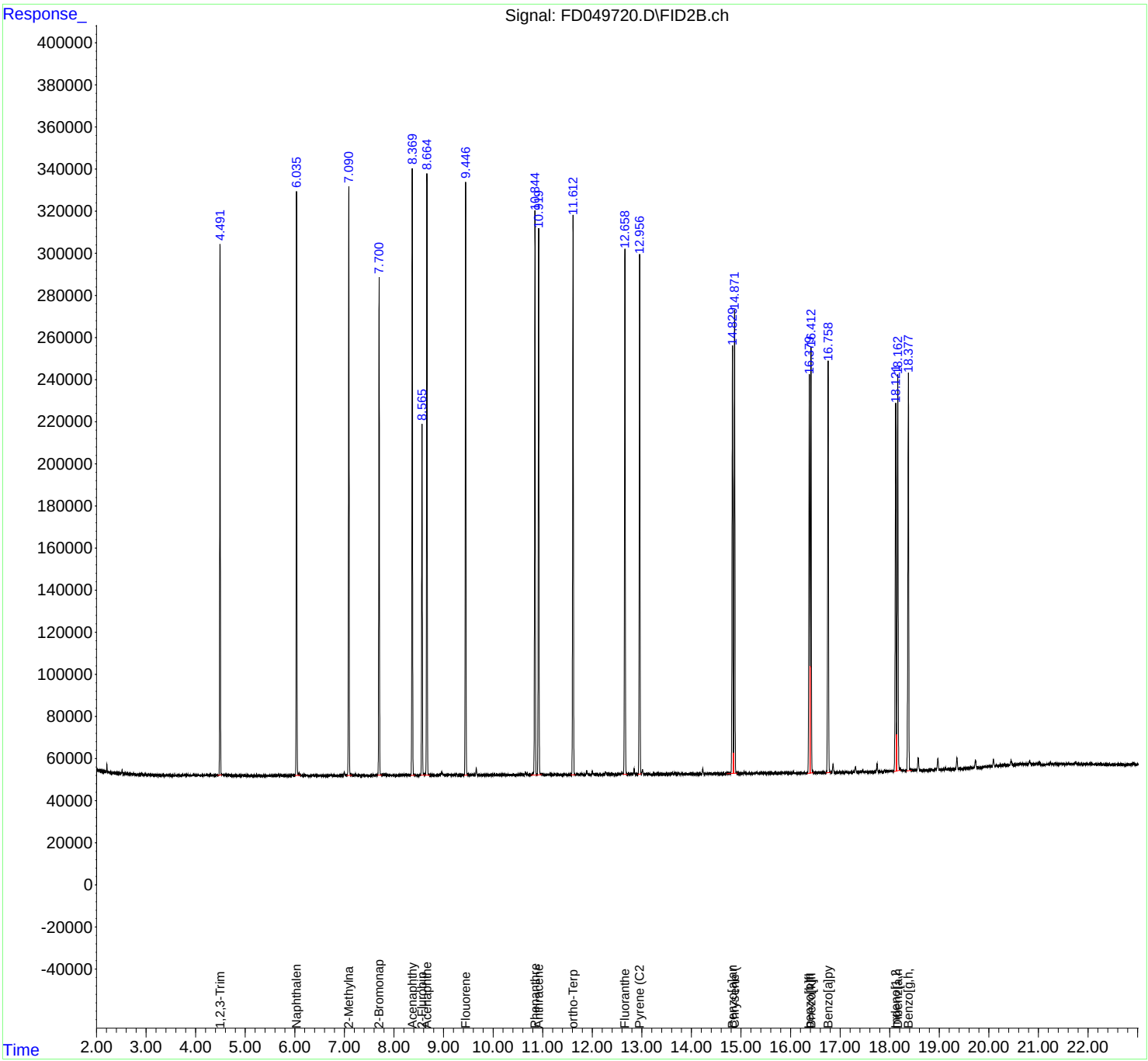
(f)=RT Delta > 1/2 Window (m)=manual int.

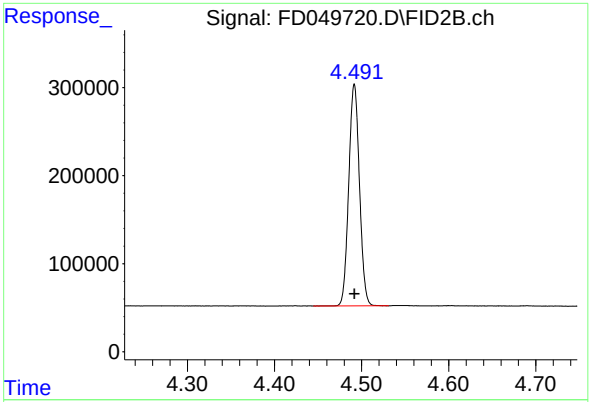
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049720.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 10:56
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 05 06:21:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 2025
Response via : Initial Calibration
Integrator: ChemStation

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

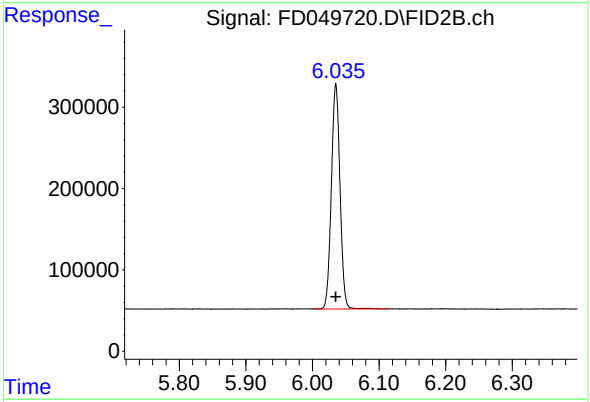




#1 1,2,3-Trimethylbenzene (C10.1)

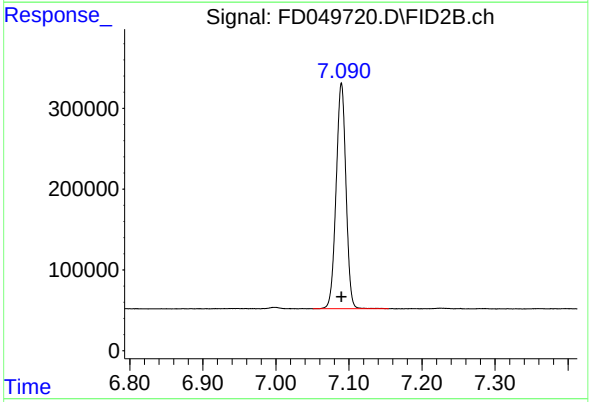
R.T.: 4.492 min
Delta R.T.: 0.000 min
Response: 2152601
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



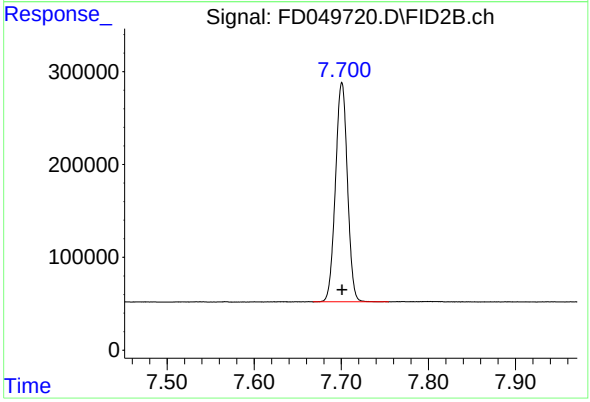
#2 Naphthalene (C11.7)

R.T.: 6.035 min
Delta R.T.: 0.000 min
Response: 2491010
Conc: 20.00 ug/ml



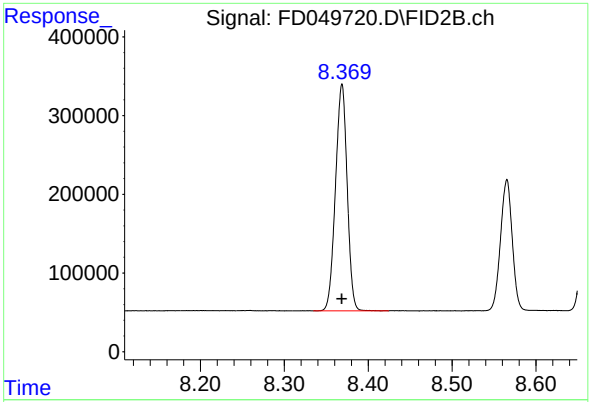
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.090 min
Delta R.T.: 0.000 min
Response: 2614218
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

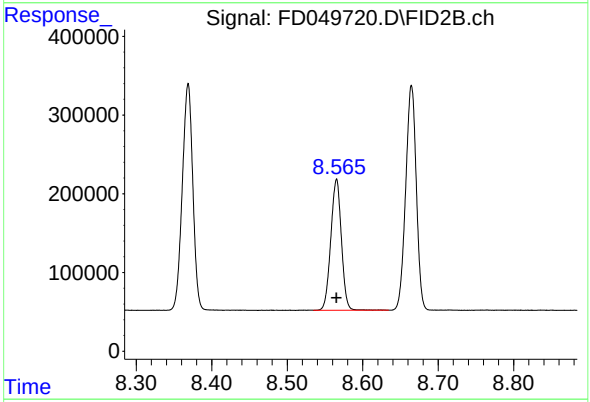
R.T.: 7.701 min
Delta R.T.: 0.000 min
Response: 2254913
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

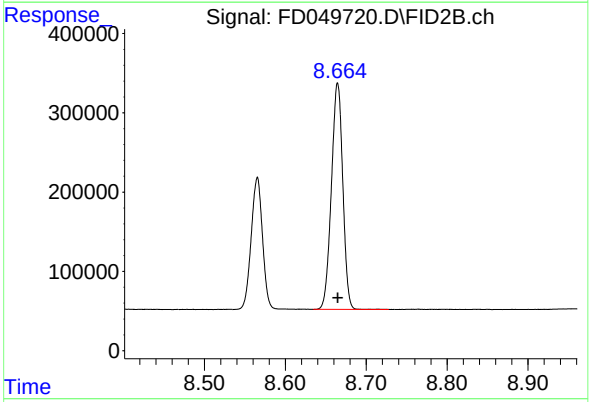
R.T.: 8.369 min
Delta R.T.: 0.000 min
Response: 2789202
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



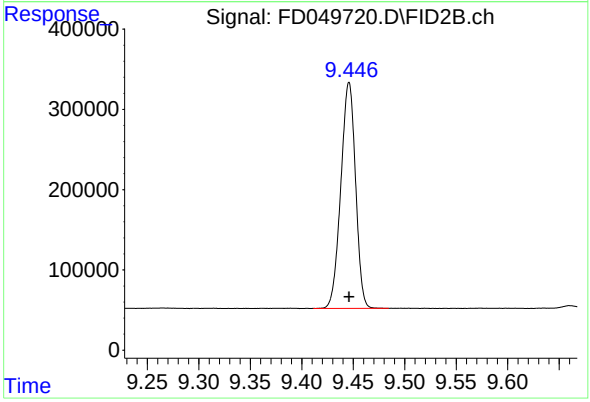
#6 2-Flurobiphenyl (SURR)

R.T.: 8.565 min
Delta R.T.: 0.000 min
Response: 1622343
Conc: 20.00 ug/ml



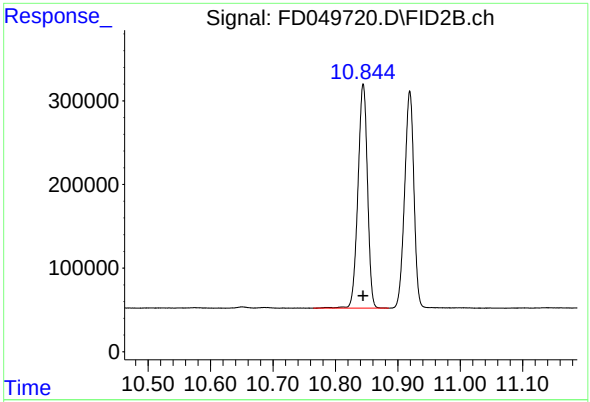
#7 Acenaphthene (C15.5)

R.T.: 8.665 min
Delta R.T.: 0.000 min
Response: 2790447
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

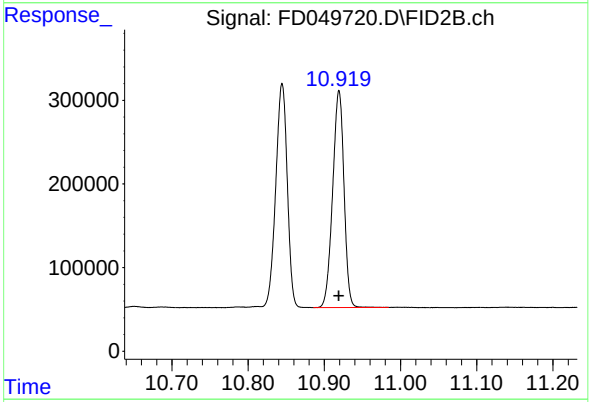
R.T.: 9.446 min
Delta R.T.: 0.000 min
Response: 2804645
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

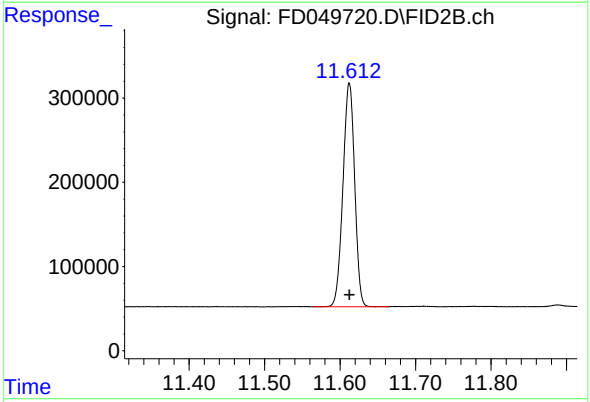
R.T.: 10.845 min
Delta R.T.: 0.000 min
Response: 2839318
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



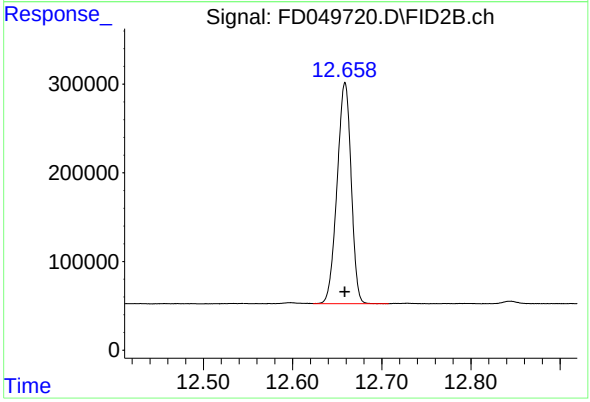
#10 Anthracene (C19.43)

R.T.: 10.919 min
Delta R.T.: 0.000 min
Response: 2682635
Conc: 20.00 ug/ml



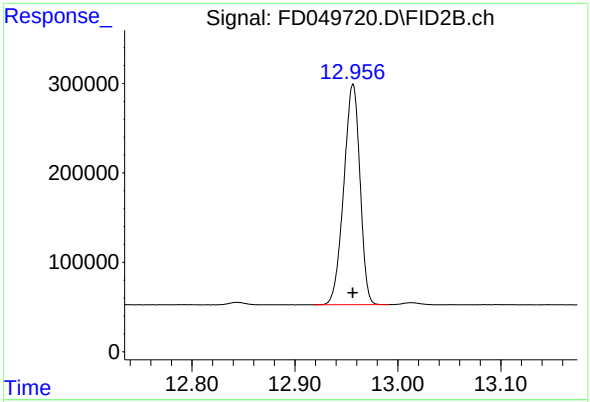
#11 ortho-Terphenyl (SURR)

R.T.: 11.612 min
Delta R.T.: 0.000 min
Response: 2865224
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

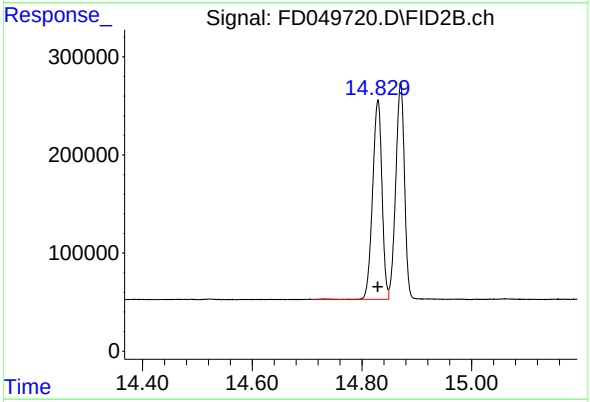
R.T.: 12.659 min
Delta R.T.: 0.000 min
Response: 2731115
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

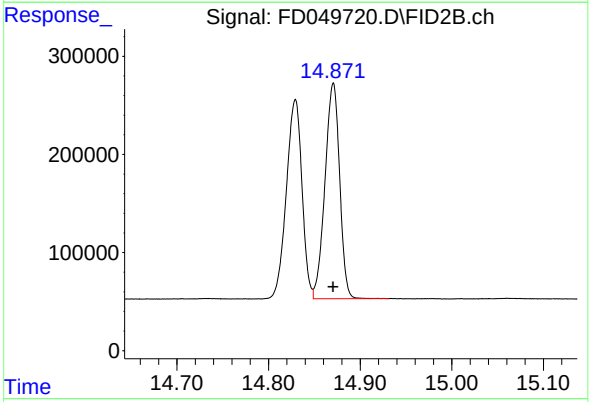
R.T.: 12.956 min
Delta R.T.: 0.000 min
Response: 2698257
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



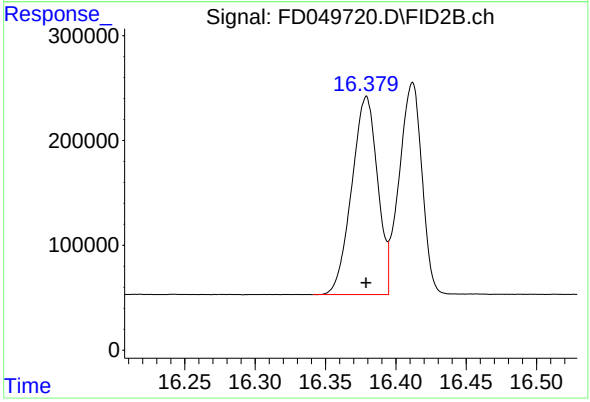
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.829 min
Delta R.T.: 0.000 min
Response: 2408933
Conc: 20.00 ug/ml



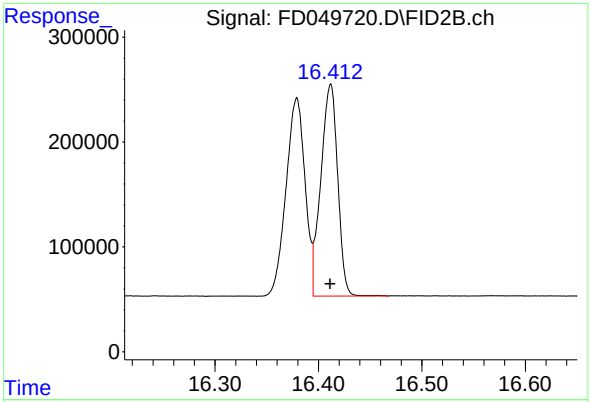
#15 Chrysene (C27.41)

R.T.: 14.870 min
Delta R.T.: 0.000 min
Response: 2440531
Conc: 20.00 ug/ml



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

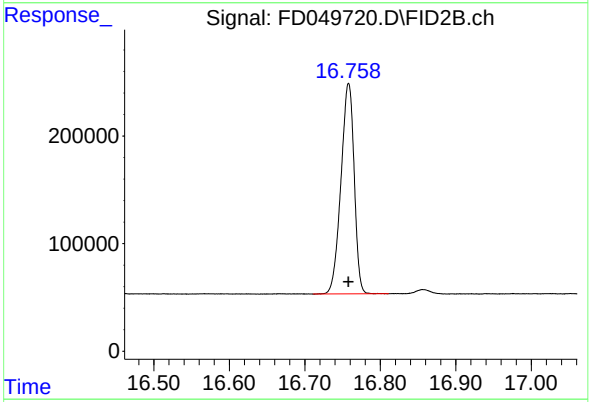
R.T.: 16.379 min
Delta R.T.: 0.000 min
Response: 2415976
Conc: 20.00 ug/ml



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

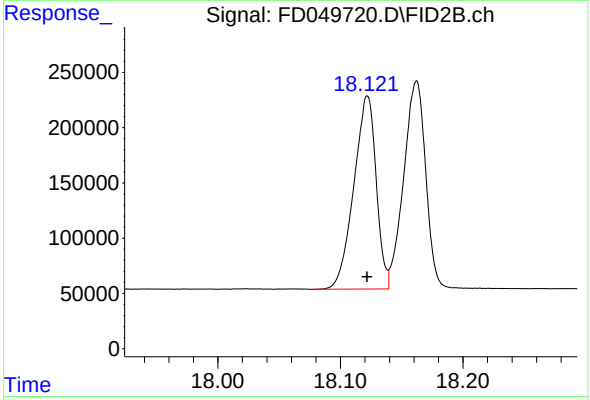
R.T.: 16.411 min
Delta R.T.: 0.000 min
Response: 2286971
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



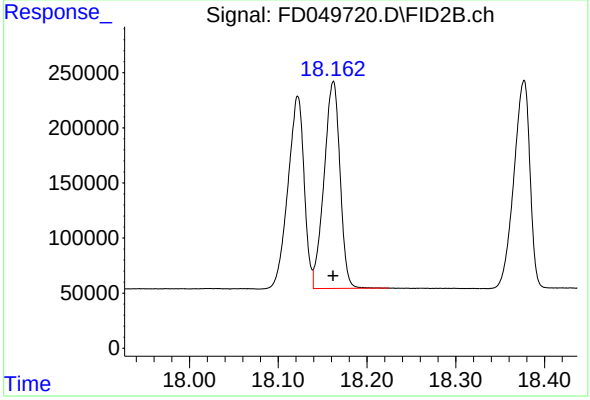
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.758 min
Delta R.T.: 0.000 min
Response: 2382359
Conc: 20.00 ug/ml



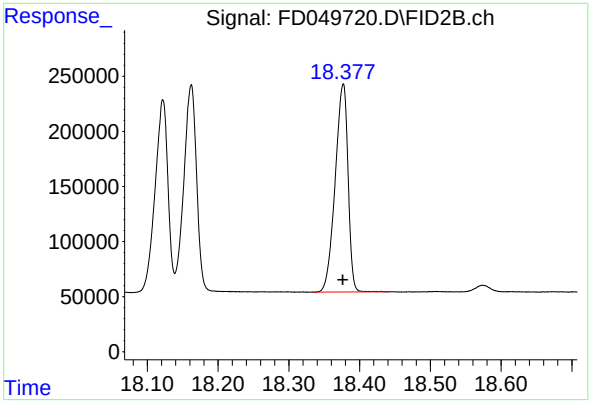
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.122 min
Delta R.T.: 0.000 min
Response: 2216312
Conc: 20.00 ug/ml



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

R.T.: 18.162 min
Delta R.T.: 0.000 min
Response: 2352402
Conc: 20.00 ug/ml



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

R.T.: 18.376 min
Delta R.T.: 0.000 min
Response: 2383649
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049720.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 10:56
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 090425.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	4.492	4.444	4.531	BV	251006	2152601	75.13%	4.122%
2	6.035	6.001	6.114	BB	275132	2491010	86.94%	4.770%
3	7.090	7.051	7.154	BB	278974	2614218	91.24%	5.006%
4	7.701	7.668	7.754	BB	236508	2254913	78.70%	4.318%
5	8.369	8.334	8.424	BB	285866	2789202	97.35%	5.341%
6	8.565	8.534	8.634	BB	164924	1622343	56.62%	3.107%
7	8.665	8.634	8.728	BB	286084	2790447	97.39%	5.343%
8	9.446	9.411	9.484	BB	279966	2804645	97.89%	5.371%
9	10.845	10.764	10.885	BV	268419	2839318	99.10%	5.437%
10	10.919	10.885	10.984	PB	257528	2682635	93.63%	5.137%
11	11.612	11.564	11.664	BB	265077	2865224	100.00%	5.487%
12	12.659	12.623	12.708	VV	248840	2731115	95.32%	5.230%
13	12.956	12.918	12.991	BV	247991	2698257	94.17%	5.167%
14	14.829	14.711	14.849	BV	201790	2408933	84.07%	4.613%
15	14.870	14.849	14.931	VB	220616	2440531	85.18%	4.673%
16	16.379	16.341	16.395	BV	187779	2415976	84.32%	4.626%
17	16.411	16.395	16.468	VB	201483	2286971	79.82%	4.379%
18	16.758	16.711	16.811	BB	196308	2382359	83.15%	4.562%
19	18.122	18.078	18.139	BV	175224	2216312	77.35%	4.244%
20	18.162	18.139	18.224	VB	187210	2352402	82.10%	4.505%
21	18.376	18.334	18.441	BB	191440	2383649	83.19%	4.564%
			Sum of corrected areas:			52223060		

Aromatic EPH 090425.M Fri Sep 05 06:44:21 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049721.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 11:38
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: Sep 05 06:21:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 2025
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...	7.696	1103950	9.792 ug/ml
Spiked Amount	50.000		Recovery =	19.58%
6) S	2-Flurobiphenyl (SURR)	8.560	784665	9.673 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	19.35%
11) S	ortho-Terphenyl (SURR)	11.607	1399473	9.769 ug/ml
Spiked Amount	50.000		Recovery =	19.54%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.489	1063806	9.884 ug/ml
2) T	Naphthalene (C11.7)	6.032	1213442	9.743 ug/ml
3) T	2-Methylnaphthalene (...	7.085	1271229	9.725 ug/ml
5) T	Acenaphthylene (C15.06)	8.364	1364366	9.783 ug/ml
7) T	Acenaphthene (C15.5)	8.659	1365728	9.789 ug/ml
8) T	Flouorene (C16.55)	9.441	1362341	9.715 ug/ml
9) T	Phenanthrene (C19.36)	10.839	1363521	9.605 ug/ml
10) T	Anthracene (C19.43)	10.913	1291559	9.629 ug/ml
12) T	Fluoranthene (C21.85)	12.652	1306755	9.569 ug/ml
13) T	Pyrene (C20.8)	12.949	1298472	9.625 ug/ml
14) T	Benzo[a]anthracene (C...	14.821	1173101	9.740 ug/ml
15) T	Chrysene (C27.41)	14.863	1194158	9.786 ug/ml
16) T	benzo[b]fluoranthene ...	16.371	1196416	9.904 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.403	1135613	9.931 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.750	1175249	9.866 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.113	1079787	9.744 ug/ml
20) T	Dibenz[a,h]anthracene...	18.154	1161284	9.873 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.366	1177944	9.884 ug/ml

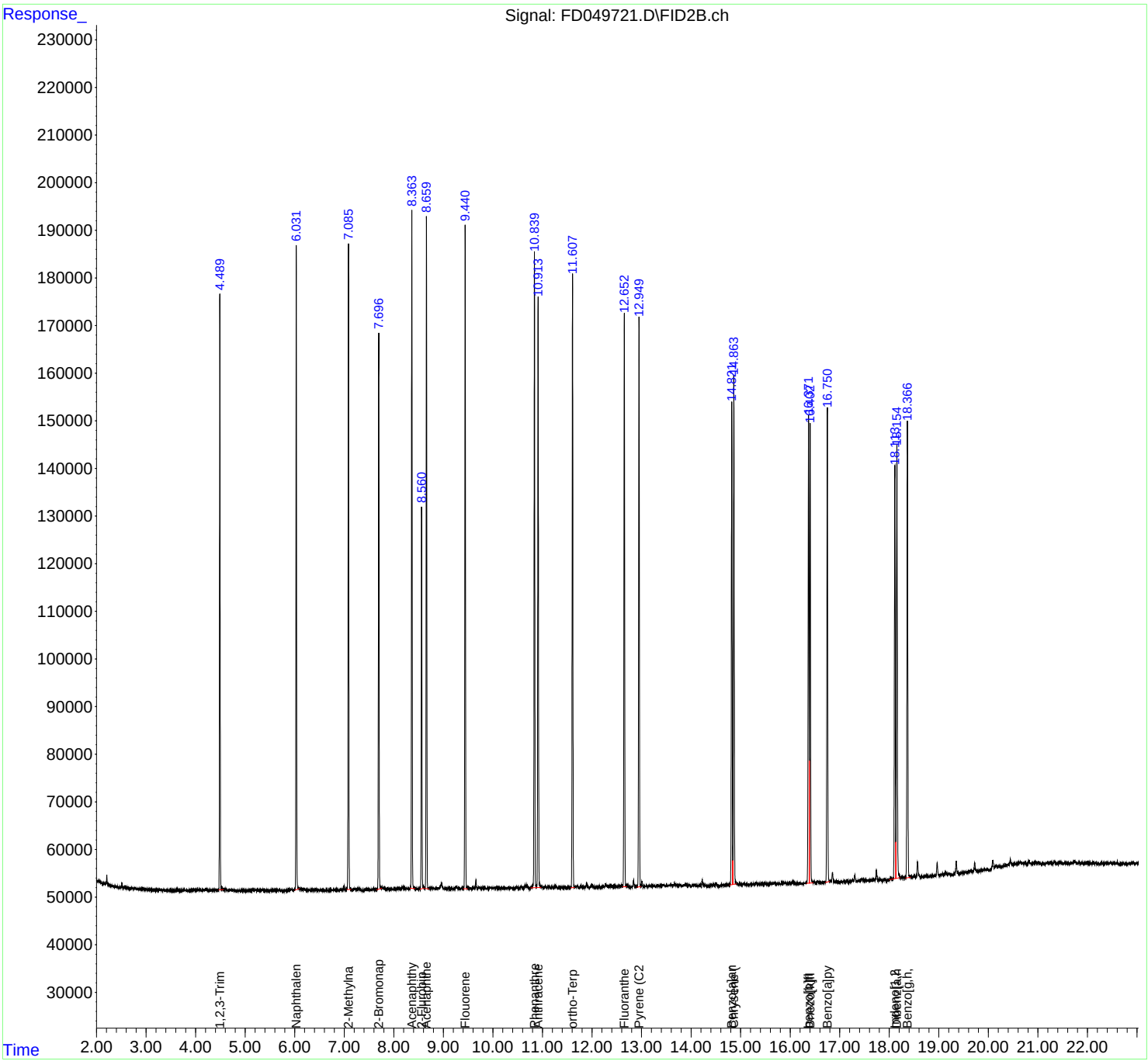
(f)=RT Delta > 1/2 Window (m)=manual int.

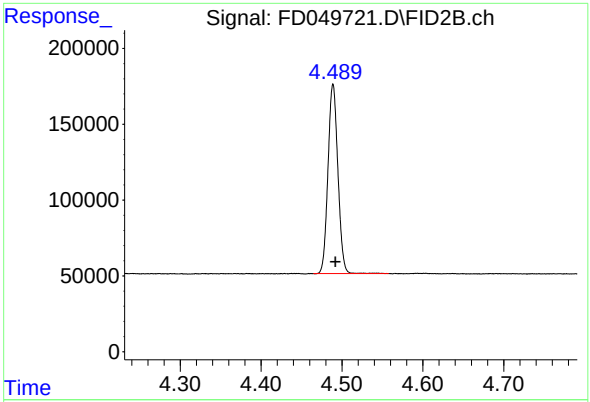
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049721.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 11:38
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 05 06:21:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 2025
Response via : Initial Calibration
Integrator: ChemStation

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

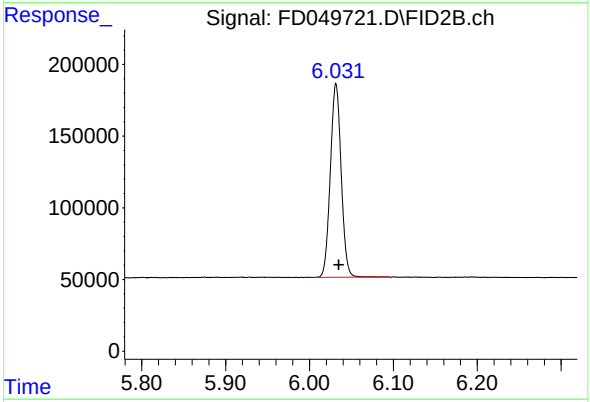




#1 1,2,3-Trimethylbenzene (C10.1)

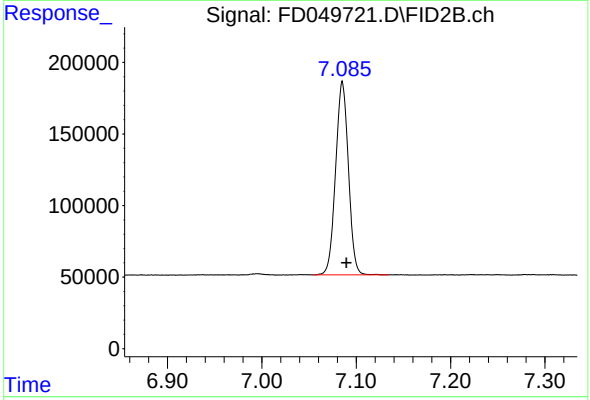
R.T.: 4.489 min
Delta R.T.: -0.003 min
Response: 1063806
Conc: 9.88 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



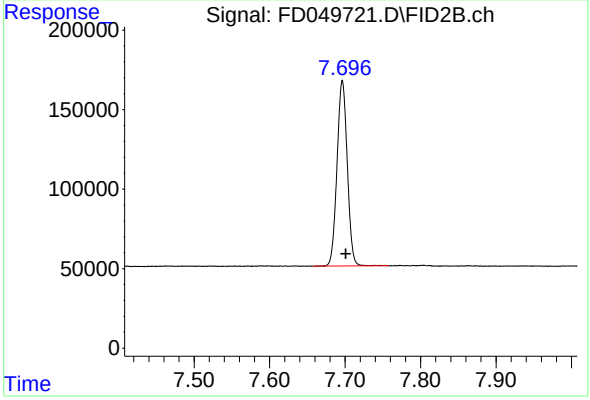
#2 Naphthalene (C11.7)

R.T.: 6.032 min
Delta R.T.: -0.004 min
Response: 1213442
Conc: 9.74 ug/ml



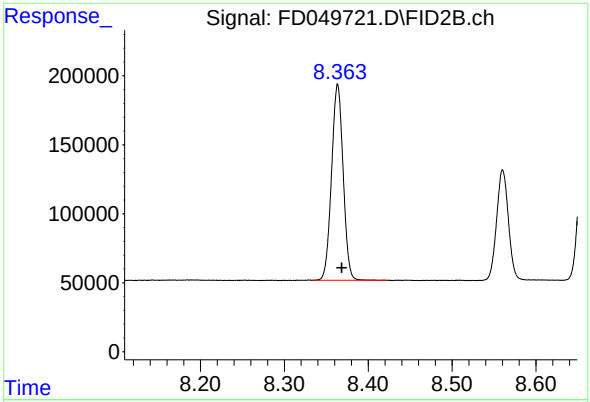
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.085 min
Delta R.T.: -0.004 min
Response: 1271229
Conc: 9.73 ug/ml



#4 2-Bromonaphthalene (SURR)

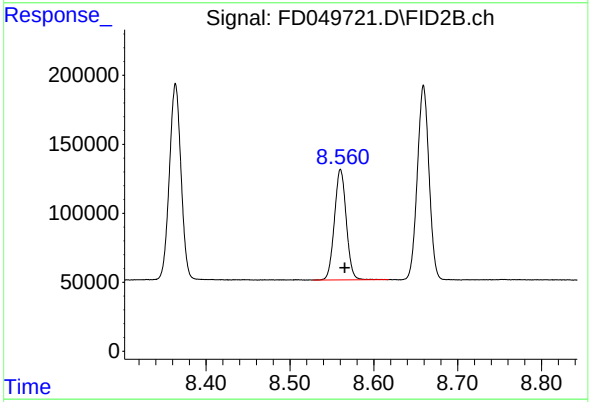
R.T.: 7.696 min
Delta R.T.: -0.004 min
Response: 1103950
Conc: 9.79 ug/ml



#5 Acenaphthylene (C15.06)

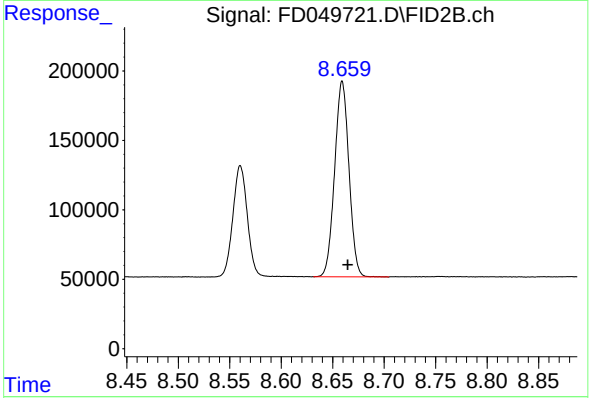
R.T.: 8.364 min
Delta R.T.: -0.005 min
Response: 1364366
Conc: 9.78 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



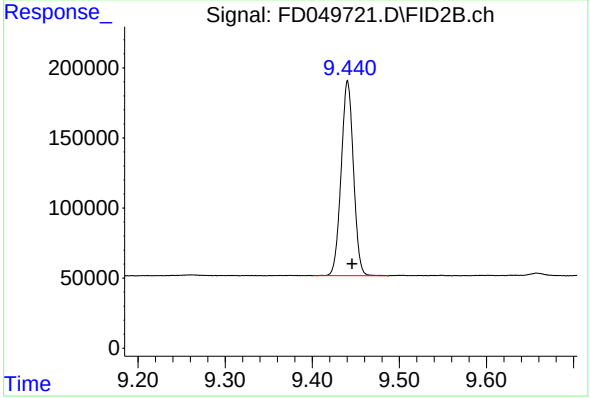
#6 2-Flurobiphenyl (SURR)

R.T.: 8.560 min
Delta R.T.: -0.005 min
Response: 784665
Conc: 9.67 ug/ml



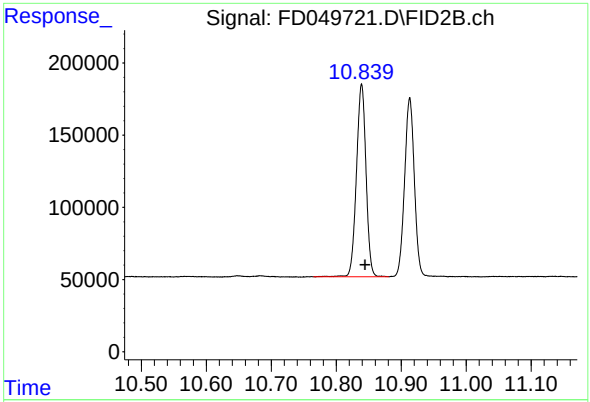
#7 Acenaphthene (C15.5)

R.T.: 8.659 min
Delta R.T.: -0.005 min
Response: 1365728
Conc: 9.79 ug/ml



#8 Flouorene (C16.55)

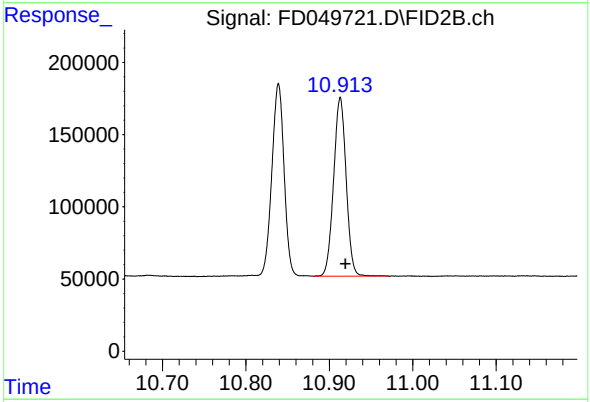
R.T.: 9.441 min
Delta R.T.: -0.005 min
Response: 1362341
Conc: 9.71 ug/ml



#9 Phenanthrene (C19.36)

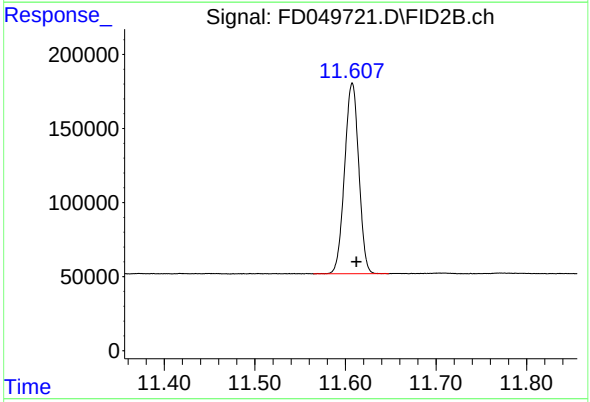
R.T.: 10.839 min
Delta R.T.: -0.006 min
Response: 1363521
Conc: 9.60 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



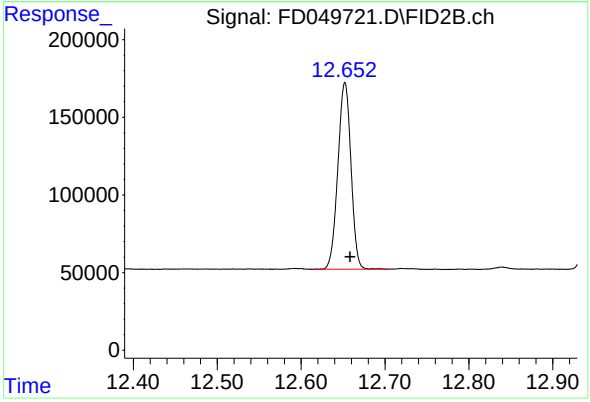
#10 Anthracene (C19.43)

R.T.: 10.913 min
Delta R.T.: -0.006 min
Response: 1291559
Conc: 9.63 ug/ml



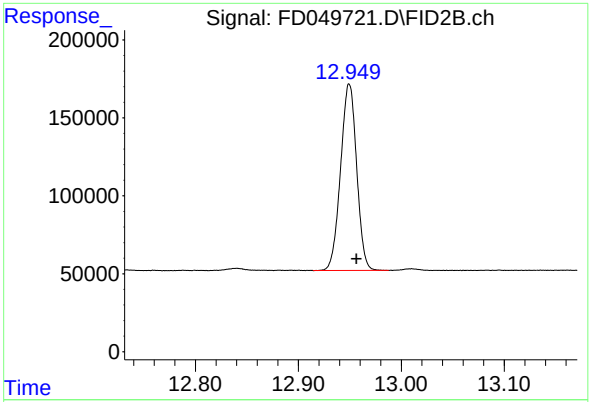
#11 ortho-Terphenyl (SURR)

R.T.: 11.607 min
Delta R.T.: -0.005 min
Response: 1399473
Conc: 9.77 ug/ml



#12 Fluoranthene (C21.85)

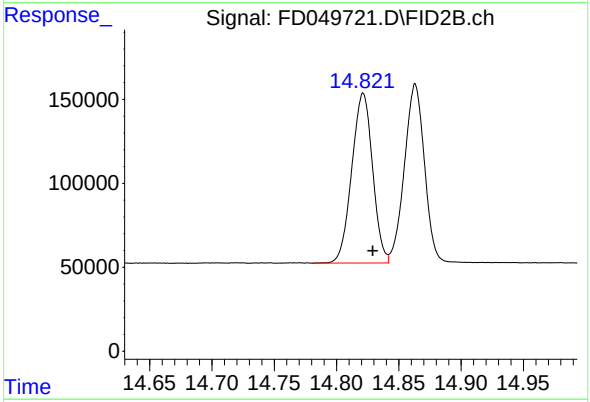
R.T.: 12.652 min
Delta R.T.: -0.006 min
Response: 1306755
Conc: 9.57 ug/ml



#13 Pyrene (C20.8)

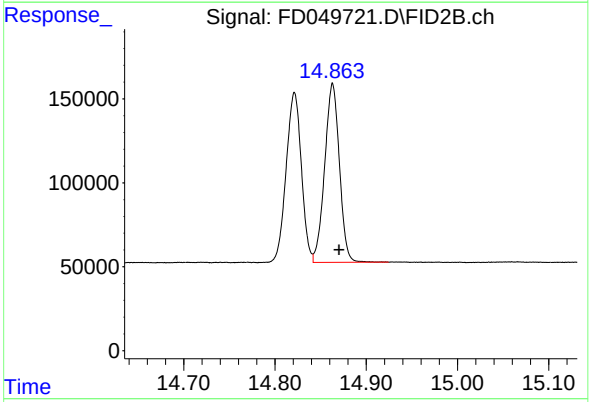
R.T.: 12.949 min
Delta R.T.: -0.007 min
Response: 1298472
Conc: 9.62 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



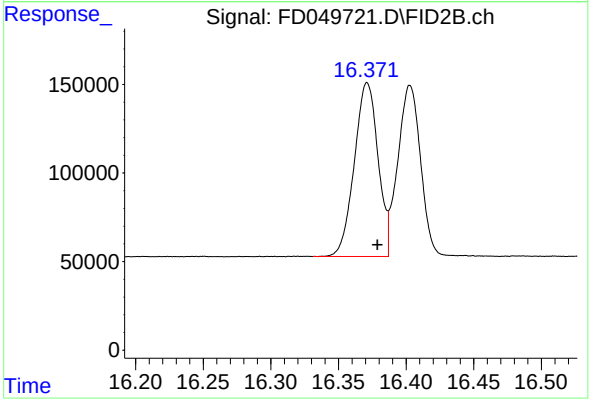
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.821 min
Delta R.T.: -0.008 min
Response: 1173101
Conc: 9.74 ug/ml



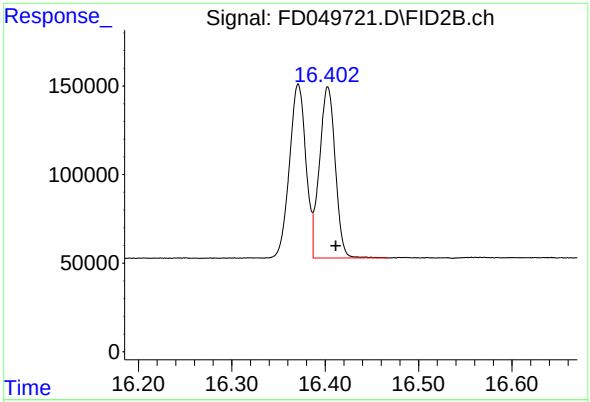
#15 Chrysene (C27.41)

R.T.: 14.863 min
Delta R.T.: -0.007 min
Response: 1194158
Conc: 9.79 ug/ml



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

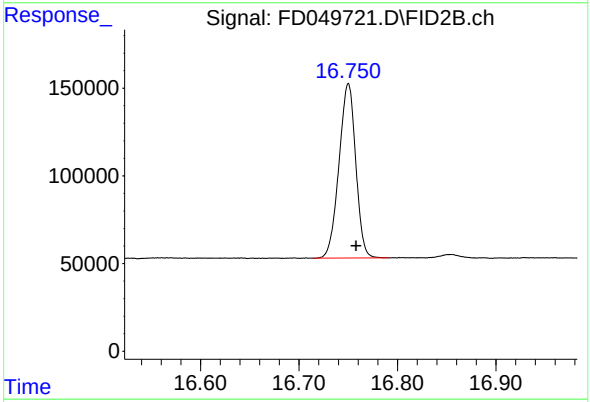
R.T.: 16.371 min
Delta R.T.: -0.008 min
Response: 1196416
Conc: 9.90 ug/ml



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

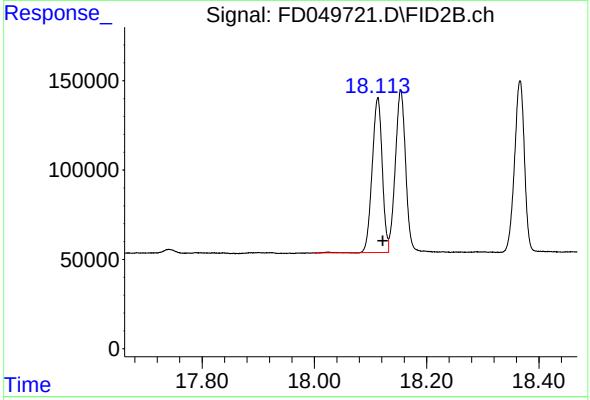
R.T.: 16.403 min
Delta R.T.: -0.009 min
Response: 1135613
Conc: 9.93 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



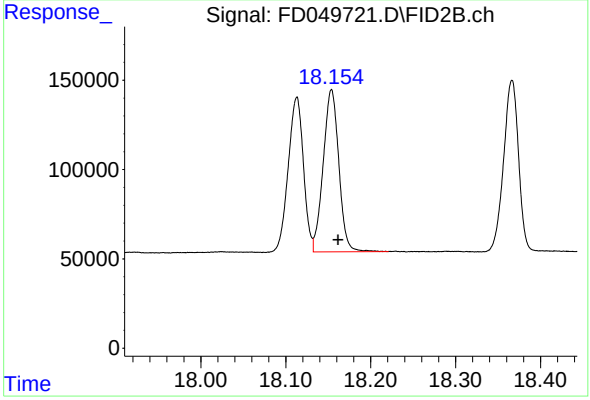
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.750 min
Delta R.T.: -0.008 min
Response: 1175249
Conc: 9.87 ug/ml



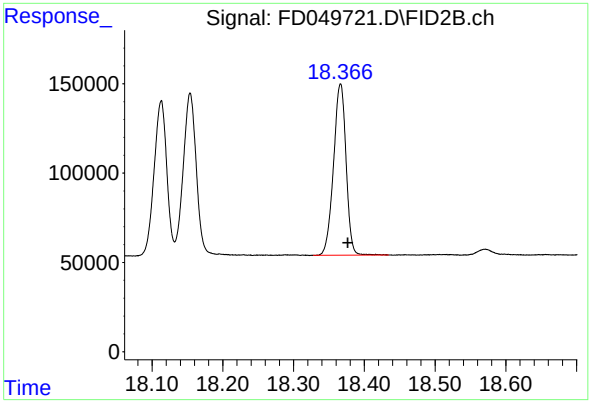
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.113 min
Delta R.T.: -0.009 min
Response: 1079787
Conc: 9.74 ug/ml



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

R.T.: 18.154 min
Delta R.T.: -0.008 min
Response: 1161284
Conc: 9.87 ug/ml



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

R.T.:	18.366 min
Delta R.T.:	-0.010 min
Response:	1177944
Conc:	9.88 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049721.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 11:38
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 090425.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	4.489	4.464	4.558	BB	124181	1063806	76.01%	4.175%
2	6.032	6.004	6.094	BB	134532	1213442	86.71%	4.762%
3	7.085	7.054	7.134	BB	134163	1271229	90.84%	4.989%
4	7.696	7.658	7.758	BB	115807	1103950	78.88%	4.332%
5	8.364	8.334	8.424	BB	141863	1364366	97.49%	5.354%
6	8.560	8.528	8.618	BB	79804	784665	56.07%	3.079%
7	8.659	8.631	8.704	BB	139440	1365728	97.59%	5.359%
8	9.441	9.401	9.488	BB	138561	1362341	97.35%	5.346%
9	10.839	10.764	10.881	BV	132485	1363521	97.43%	5.351%
10	10.913	10.881	10.971	PB	123326	1291559	92.29%	5.068%
11	11.607	11.564	11.648	BB	128777	1399473	100.00%	5.492%
12	12.652	12.614	12.704	BV	119940	1306755	93.37%	5.128%
13	12.949	12.914	12.988	BV	119411	1298472	92.78%	5.095%
14	14.821	14.781	14.842	BV	101155	1173101	83.82%	4.603%
15	14.863	14.842	14.924	VB	106138	1194158	85.33%	4.686%
16	16.371	16.331	16.387	BV	98180	1196416	85.49%	4.695%
17	16.403	16.387	16.468	VB	96574	1135613	81.15%	4.456%
18	16.750	16.714	16.791	BB	99992	1175249	83.98%	4.612%
19	18.113	17.998	18.132	BV	87120	1079787	77.16%	4.237%
20	18.154	18.132	18.221	VB	90851	1161284	82.98%	4.557%
21	18.366	18.328	18.434	BB	96607	1177944	84.17%	4.622%
			Sum of corrected areas:			25482857		

Aromatic EPH 090425.M Fri Sep 05 06:44:37 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049722.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 12:19
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: Sep 05 06:22:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 2025
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...	7.697	596288	5.289 ug/ml
Spiked Amount	50.000		Recovery =	10.58%
6) S	2-Flurobiphenyl (SURR)	8.561	420895	5.189 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	10.38%
11) S	ortho-Terphenyl (SURR)	11.607	762216	5.320 ug/ml
Spiked Amount	50.000		Recovery =	10.64%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.489	591988	5.500 ug/ml
2) T	Naphthalene (C11.7)	6.032	667521	5.359 ug/ml
3) T	2-Methylnaphthalene (...	7.086	692097	5.295 ug/ml
5) T	Acenaphthylene (C15.06)	8.364	742304	5.323 ug/ml
7) T	Acenaphthene (C15.5)	8.659	740977	5.311 ug/ml
8) T	Flouorene (C16.55)	9.441	735487	5.245 ug/ml
9) T	Phenanthrene (C19.36)	10.838	722864	5.092 ug/ml
10) T	Anthracene (C19.43)	10.913	692408	5.162 ug/ml
12) T	Fluoranthene (C21.85)	12.652	709917	5.199 ug/ml
13) T	Pyrene (C20.8)	12.949	695929	5.158 ug/ml
14) T	Benzo[a]anthracene (C...	14.821	637941	5.296 ug/ml
15) T	Chrysene (C27.41)	14.862	661550	5.421 ug/ml
16) T	benzo[b]fluoranthene ...	16.370	653575	5.410 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.401	620851	5.429 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.748	644952	5.414 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.111	584175	5.272 ug/ml
20) T	Dibenz[a,h]anthracene...	18.152	643201	5.468 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.364	635196	5.330 ug/ml

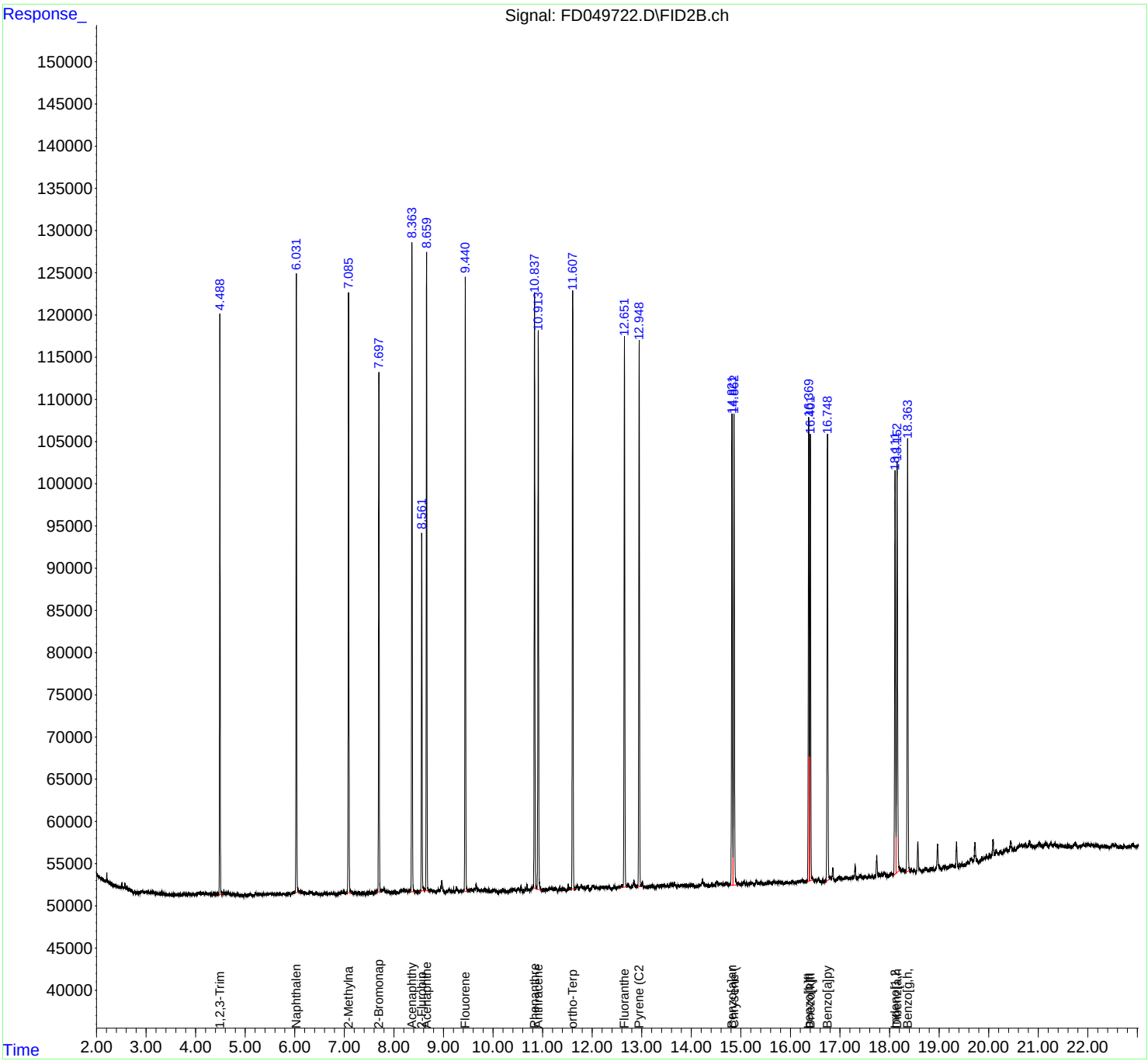
(f)=RT Delta > 1/2 Window (m)=manual int.

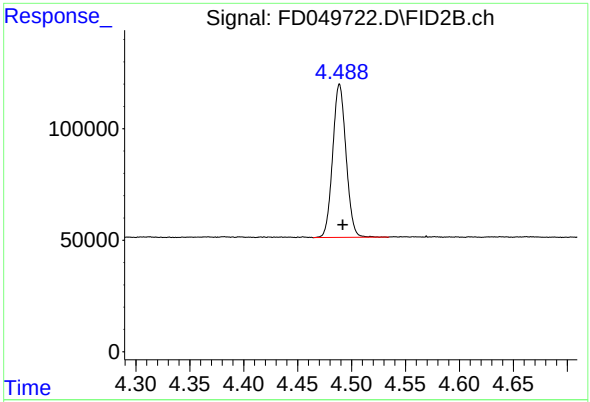
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049722.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 12:19
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 05 06:22:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 2025
Response via : Initial Calibration
Integrator: ChemStation

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

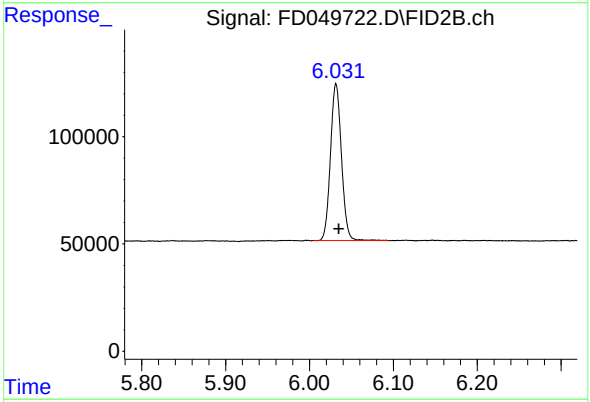




#1 1,2,3-Trimethylbenzene (C10.1)

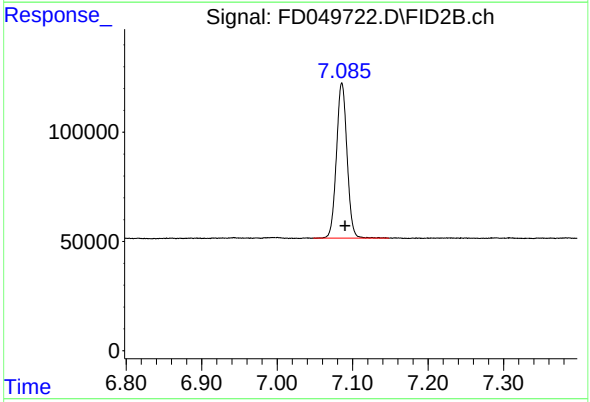
R.T.: 4.489 min
Delta R.T.: -0.003 min
Response: 591988
Conc: 5.50 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



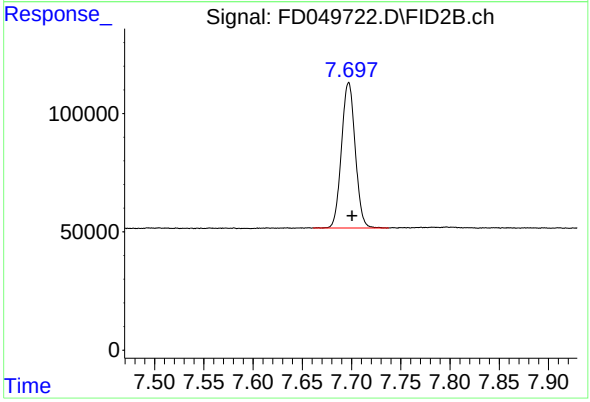
#2 Naphthalene (C11.7)

R.T.: 6.032 min
Delta R.T.: -0.003 min
Response: 667521
Conc: 5.36 ug/ml



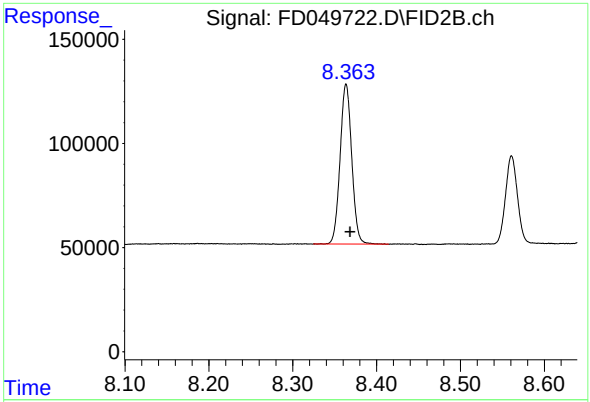
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.086 min
Delta R.T.: -0.004 min
Response: 692097
Conc: 5.29 ug/ml



#4 2-Bromonaphthalene (SURR)

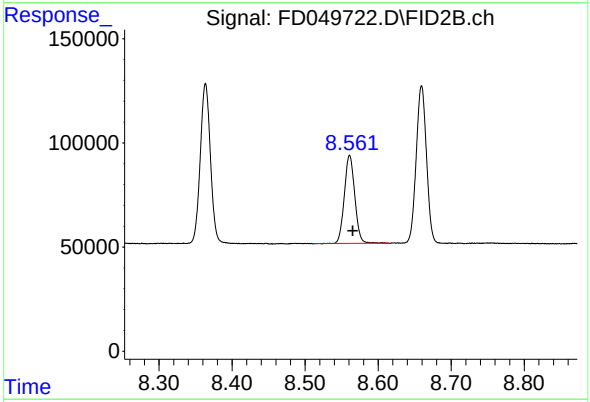
R.T.: 7.697 min
Delta R.T.: -0.004 min
Response: 596288
Conc: 5.29 ug/ml



#5 Acenaphthylene (C15.06)

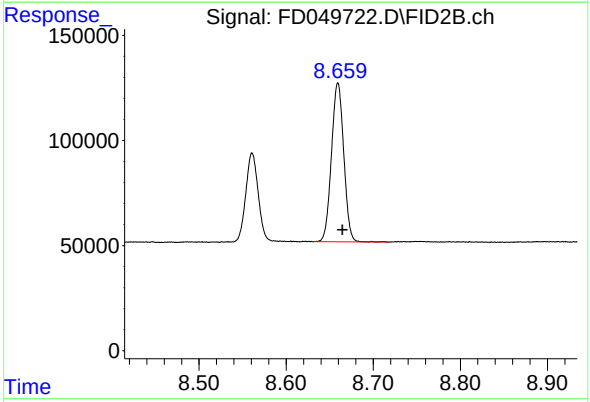
R.T.: 8.364 min
Delta R.T.: -0.005 min
Response: 742304
Conc: 5.32 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



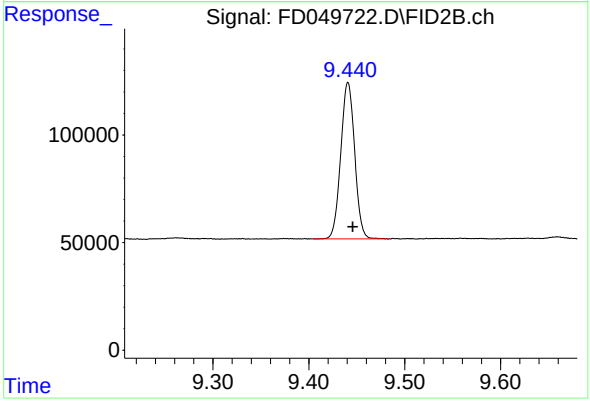
#6 2-Flurobiphenyl (SURR)

R.T.: 8.561 min
Delta R.T.: -0.004 min
Response: 420895
Conc: 5.19 ug/ml



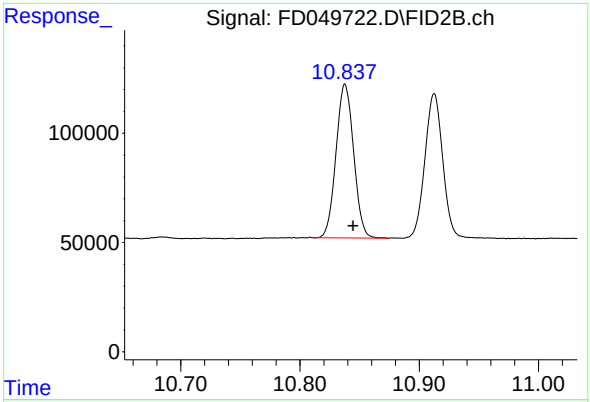
#7 Acenaphthene (C15.5)

R.T.: 8.659 min
Delta R.T.: -0.005 min
Response: 740977
Conc: 5.31 ug/ml



#8 Flouorene (C16.55)

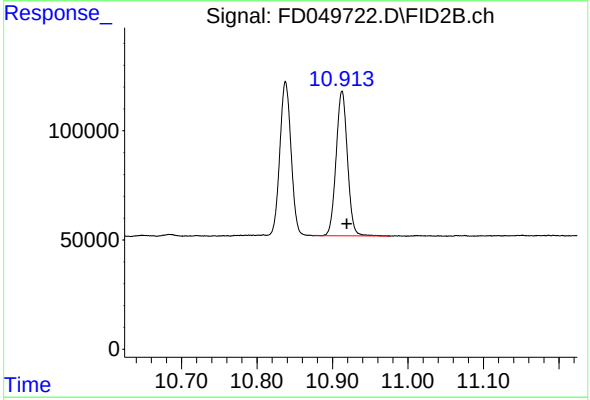
R.T.: 9.441 min
Delta R.T.: -0.005 min
Response: 735487
Conc: 5.24 ug/ml



#9 Phenanthrene (C19.36)

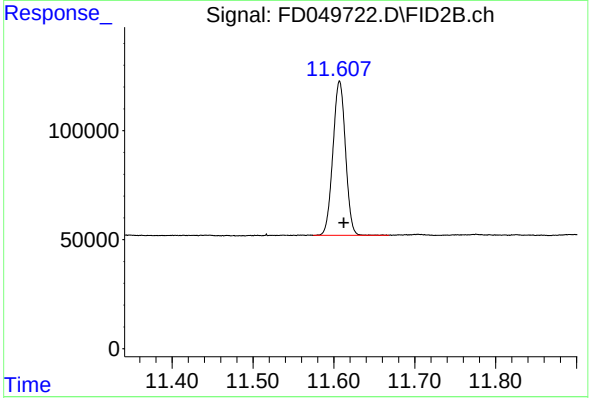
R.T.: 10.838 min
Delta R.T.: -0.007 min
Response: 722864
Conc: 5.09 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



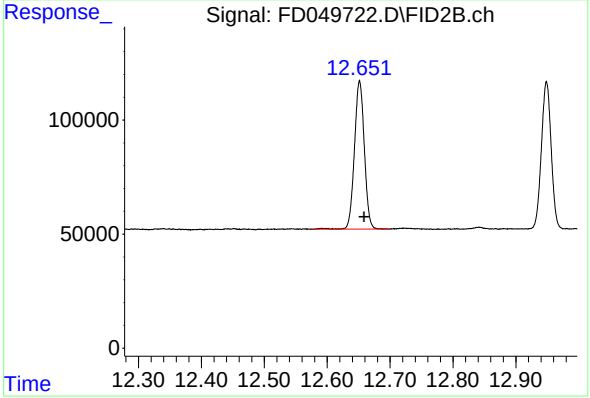
#10 Anthracene (C19.43)

R.T.: 10.913 min
Delta R.T.: -0.007 min
Response: 692408
Conc: 5.16 ug/ml



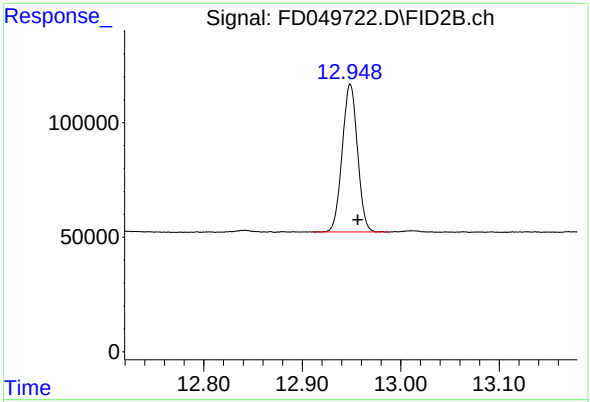
#11 ortho-Terphenyl (SURR)

R.T.: 11.607 min
Delta R.T.: -0.005 min
Response: 762216
Conc: 5.32 ug/ml



#12 Fluoranthene (C21.85)

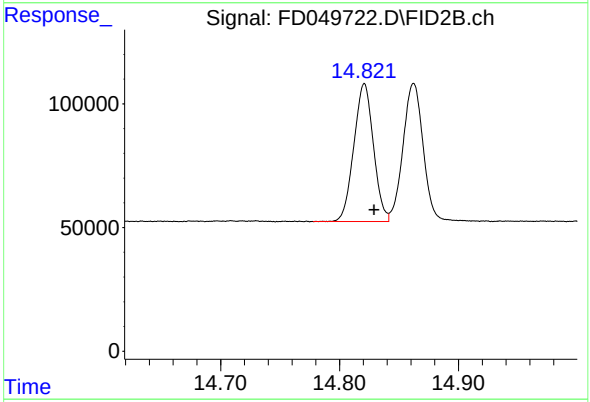
R.T.: 12.652 min
Delta R.T.: -0.007 min
Response: 709917
Conc: 5.20 ug/ml



#13 Pyrene (C20.8)

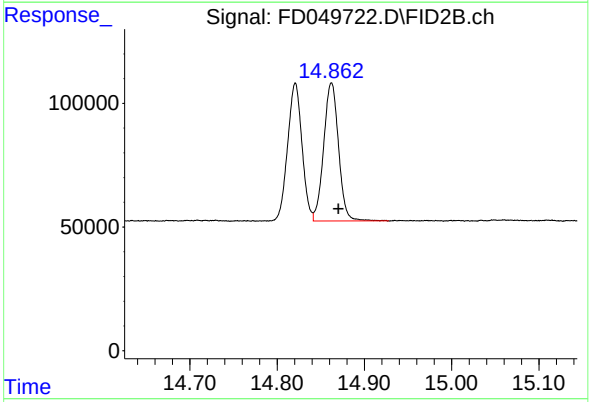
R.T.: 12.949 min
Delta R.T.: -0.008 min
Response: 695929
Conc: 5.16 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



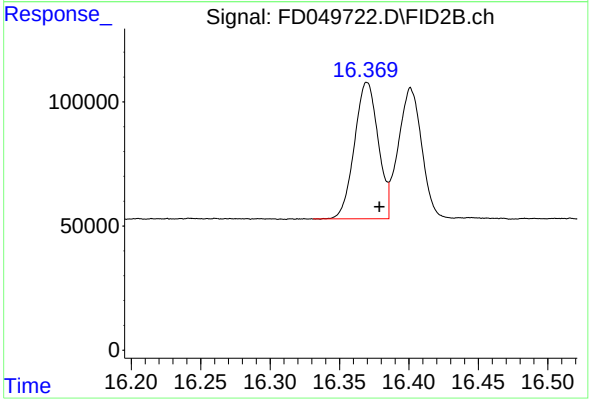
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.821 min
Delta R.T.: -0.008 min
Response: 637941
Conc: 5.30 ug/ml



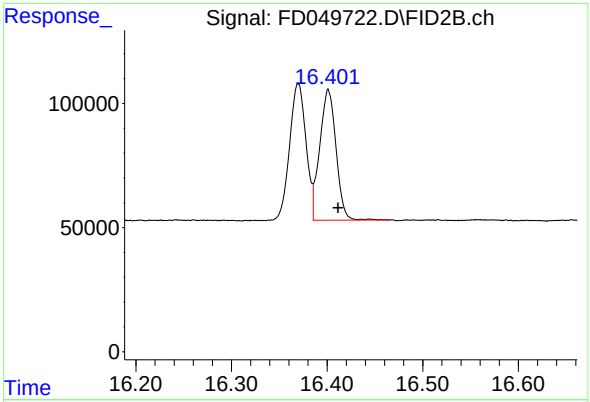
#15 Chrysene (C27.41)

R.T.: 14.862 min
Delta R.T.: -0.008 min
Response: 661550
Conc: 5.42 ug/ml



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

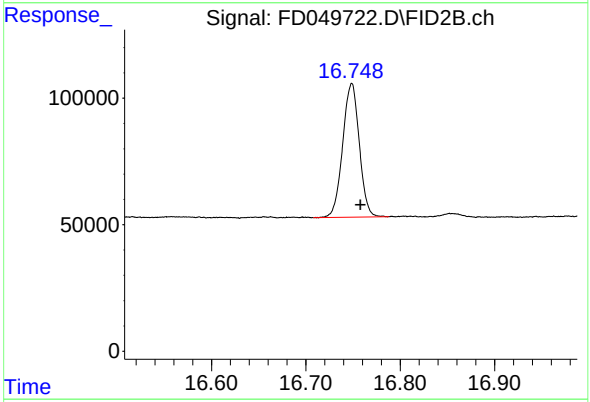
R.T.: 16.370 min
Delta R.T.: -0.009 min
Response: 653575
Conc: 5.41 ug/ml



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

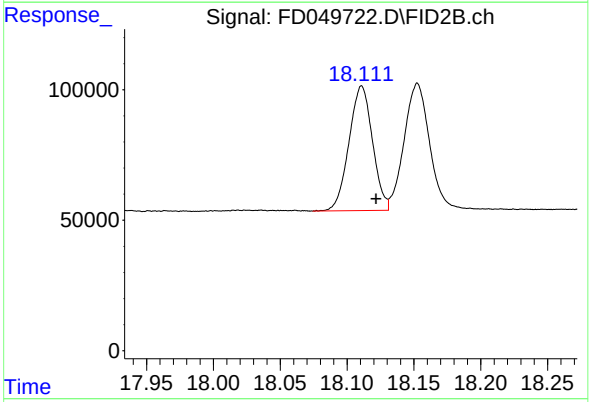
R.T.: 16.401 min
Delta R.T.: -0.010 min
Response: 620851
Conc: 5.43 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



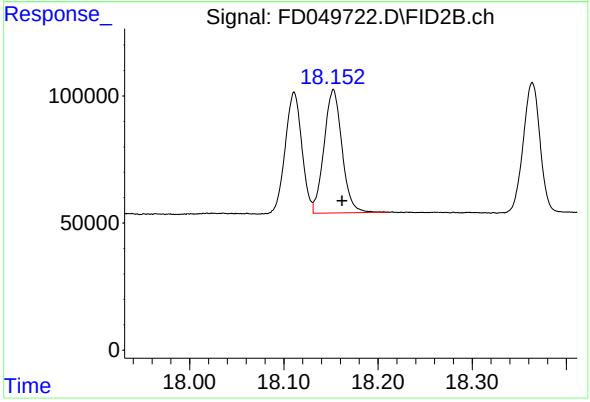
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.748 min
Delta R.T.: -0.010 min
Response: 644952
Conc: 5.41 ug/ml



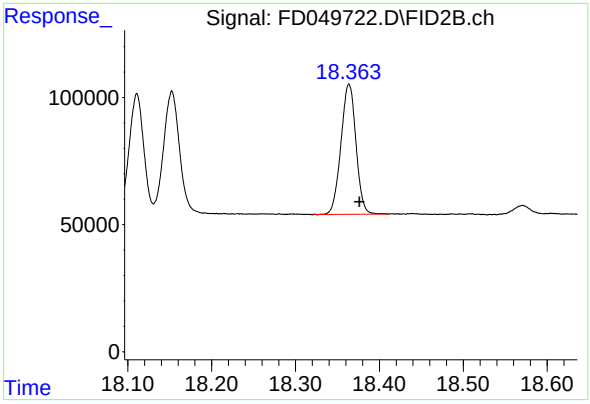
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.111 min
Delta R.T.: -0.011 min
Response: 584175
Conc: 5.27 ug/ml



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

R.T.: 18.152 min
Delta R.T.: -0.009 min
Response: 643201
Conc: 5.47 ug/ml



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

R.T.:	18.364 min
Delta R.T.:	-0.013 min
Response:	635196
Conc:	5.33 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049722.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 12:19
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 090425.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	4.489	4.464	4.534	BB	68364	591988	77.67%	4.274%
2	6.032	6.004	6.094	BB	72868	667521	87.58%	4.819%
3	7.086	7.048	7.148	BB	70940	692097	90.80%	4.996%
4	7.697	7.661	7.738	BB	61552	596288	78.23%	4.305%
5	8.364	8.324	8.414	BB	76666	742304	97.39%	5.359%
6	8.561	8.511	8.614	BB	42276	420895	55.22%	3.038%
7	8.659	8.631	8.718	BB	75382	740977	97.21%	5.349%
8	9.441	9.404	9.483	BB	72685	735487	96.49%	5.309%
9	10.838	10.811	10.874	BV	70347	722864	94.84%	5.218%
10	10.913	10.874	10.974	PB	65896	692408	90.84%	4.998%
11	11.607	11.574	11.668	BB	70704	762216	100.00%	5.502%
12	12.652	12.578	12.698	BV	64853	709917	93.14%	5.125%
13	12.949	12.911	12.988	BV	64502	695929	91.30%	5.024%
14	14.821	14.778	14.841	BV	55846	637941	83.70%	4.605%
15	14.862	14.841	14.928	VB	55811	661550	86.79%	4.776%
16	16.370	16.331	16.386	BV	55126	653575	85.75%	4.718%
17	16.401	16.386	16.464	VB	52548	620851	81.45%	4.482%
18	16.748	16.708	16.788	BB	52614	644952	84.62%	4.656%
19	18.111	18.074	18.131	BV	47841	584175	76.64%	4.217%
20	18.152	18.131	18.211	VB	48113	643201	84.39%	4.643%
21	18.364	18.321	18.411	BB	51167	635196	83.34%	4.585%
					Sum of corrected areas:	13852330		

Aromatic EPH 090425.M Fri Sep 05 06:44:54 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049723.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 13:00
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: Sep 05 06:33:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
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...	7.697	2231641	19.843 ug/ml
Spiked Amount 50.000		Recovery =	39.69%
6) S 2-Flurobiphenyl (SURR)	8.562	1599409	19.925 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	39.85%
11) S ortho-Terphenyl (SURR)	11.609	2804214	19.820 ug/ml
Spiked Amount 50.000		Recovery =	39.64%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.487	2140546	19.865 ug/ml
2) T Naphthalene (C11.7)	6.031	2479492	19.938 ug/ml
3) T 2-Methylnaphthalene (...	7.086	2596693	19.924 ug/ml
5) T Acenaphthylene (C15.06)	8.365	2749499	19.832 ug/ml
7) T Acenaphthene (C15.5)	8.661	2751173	19.846 ug/ml
8) T Flouorene (C16.55)	9.442	2761041	19.905 ug/ml
9) T Phenanthrene (C19.36)	10.840	2765682	19.854 ug/ml
10) T Anthracene (C19.43)	10.915	2617228	19.821 ug/ml
12) T Fluoranthene (C21.85)	12.655	2654106	19.708 ug/ml
13) T Pyrene (C20.8)	12.952	2629491	19.767 ug/ml
14) T Benzo[a]anthracene (C...	14.824	2340110	19.569 ug/ml
15) T Chrysene (C27.41)	14.867	2375059	19.523 ug/ml
16) T benzo[b]fluoranthene ...	16.375	2350033	19.605 ug/ml
17) T Bnezo[k]fluoranthene ...	16.407	2218226	19.687 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.754	2314710	19.725 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.117	2138000	19.652 ug/ml
20) T Dibenz[a,h]anthracene...	18.158	2236318	19.626 ug/ml
21) T Benzo[g,h,i]perylene ...	18.373	2303694	19.798 ug/ml

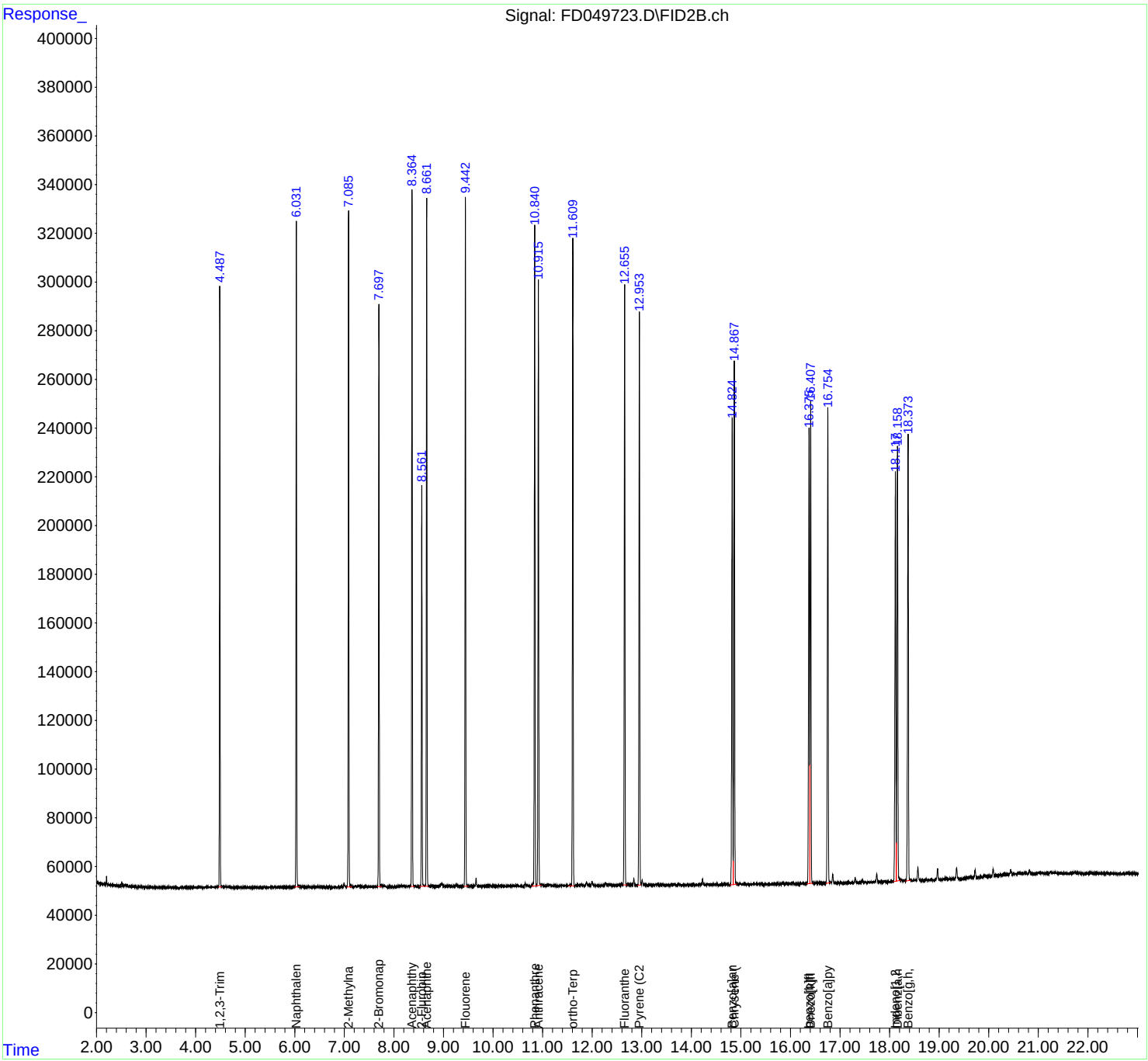
(f)=RT Delta > 1/2 Window (m)=manual int.

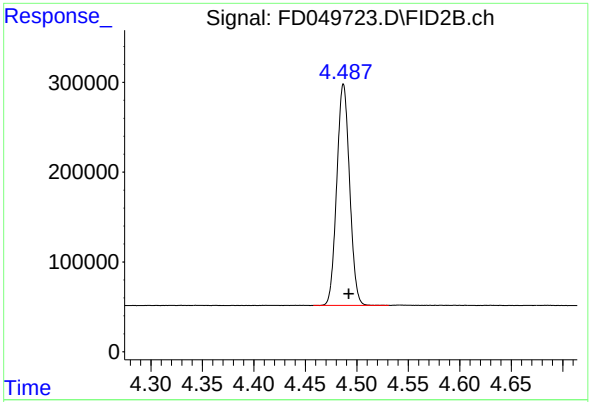
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049723.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 13:00
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 05 06:33:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

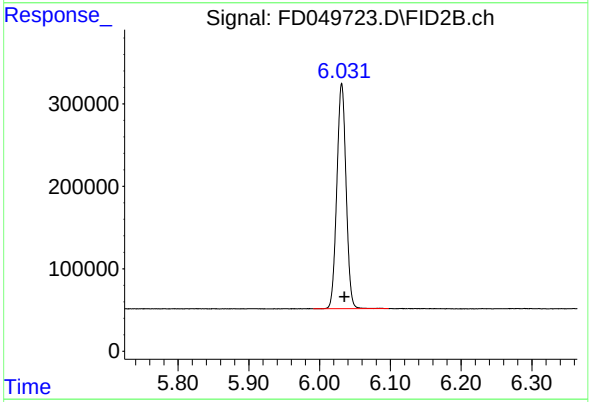




#1 1,2,3-Trimethylbenzene (C10.1)

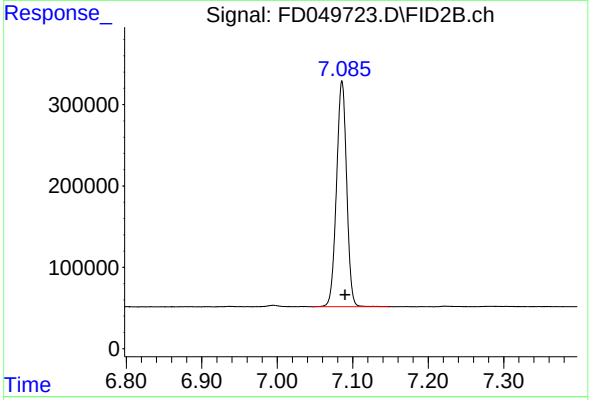
R.T.: 4.487 min
Delta R.T.: -0.005 min
Response: 2140546
Conc: 19.87 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



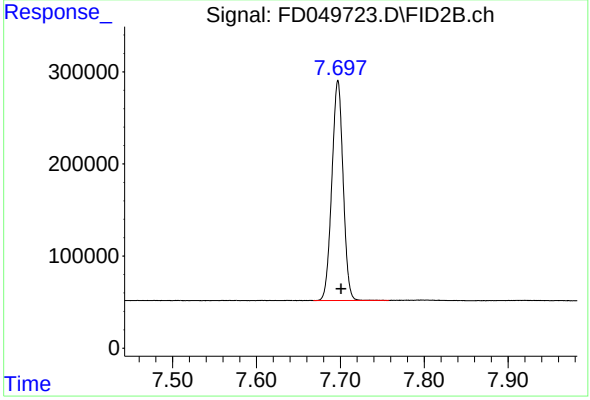
#2 Naphthalene (C11.7)

R.T.: 6.031 min
Delta R.T.: -0.004 min
Response: 2479492
Conc: 19.94 ug/ml



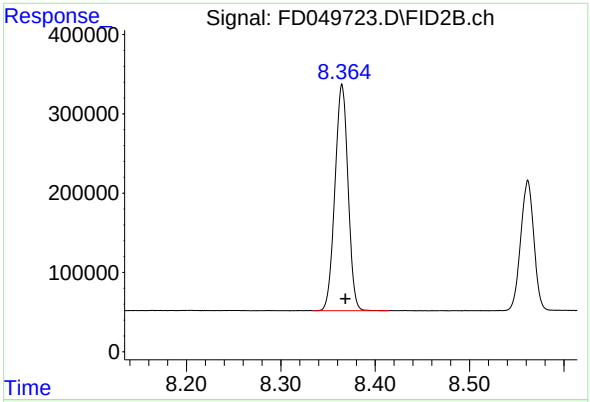
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.086 min
Delta R.T.: -0.004 min
Response: 2596693
Conc: 19.92 ug/ml



#4 2-Bromonaphthalene (SURR)

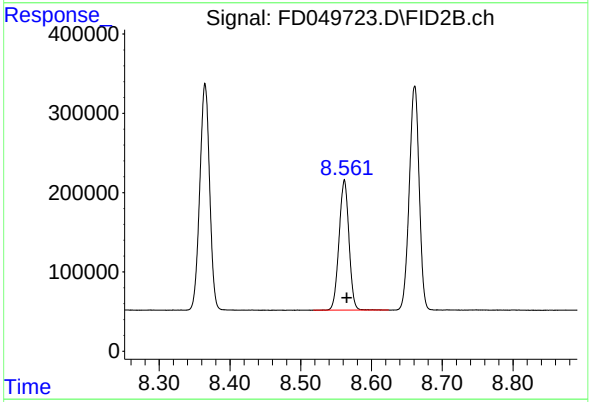
R.T.: 7.697 min
Delta R.T.: -0.004 min
Response: 2231641
Conc: 19.84 ug/ml



#5 Acenaphthylene (C15.06)

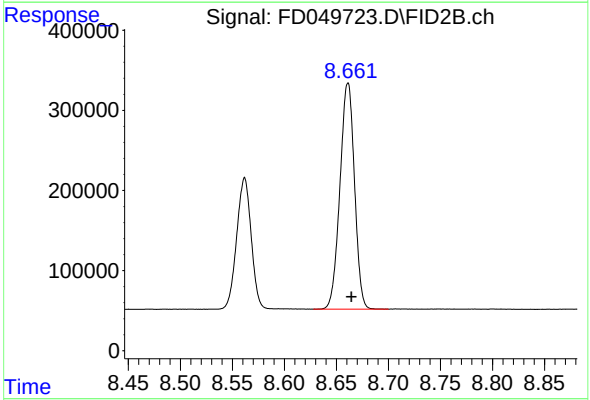
R.T.: 8.365 min
Delta R.T.: -0.004 min
Response: 2749499
Conc: 19.83 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



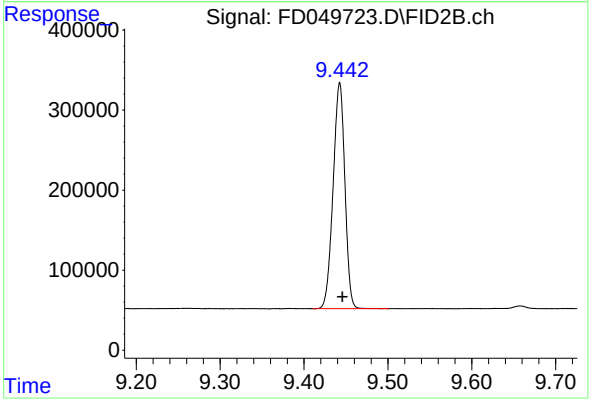
#6 2-Flurobiphenyl (SURR)

R.T.: 8.562 min
Delta R.T.: -0.004 min
Response: 1599409
Conc: 19.93 ug/ml



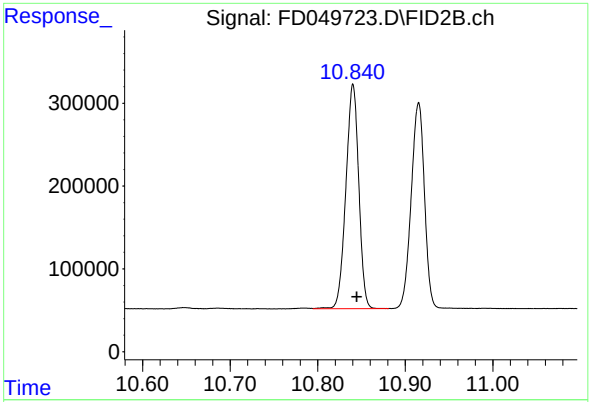
#7 Acenaphthene (C15.5)

R.T.: 8.661 min
Delta R.T.: -0.004 min
Response: 2751173
Conc: 19.85 ug/ml



#8 Flouorene (C16.55)

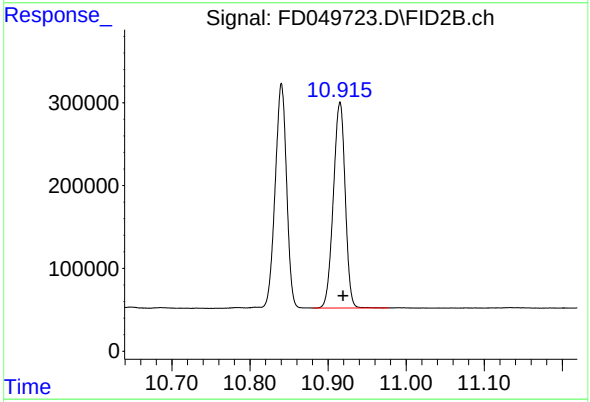
R.T.: 9.442 min
Delta R.T.: -0.003 min
Response: 2761041
Conc: 19.90 ug/ml



#9 Phenanthrene (C19.36)

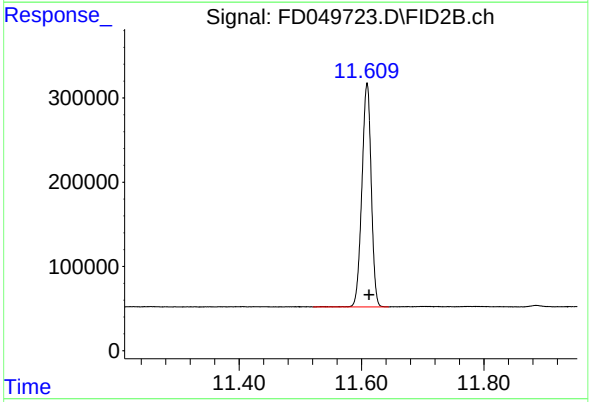
R.T.: 10.840 min
Delta R.T.: -0.004 min
Response: 2765682
Conc: 19.85 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



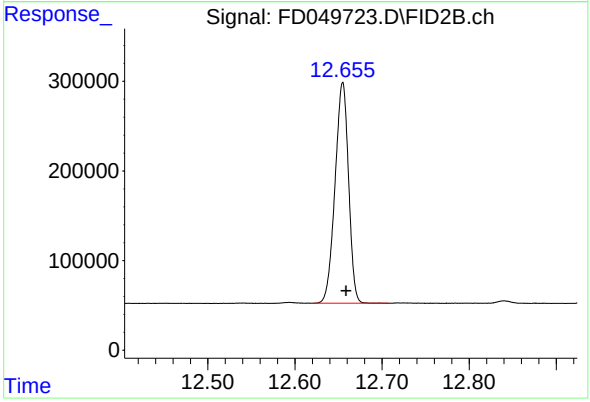
#10 Anthracene (C19.43)

R.T.: 10.915 min
Delta R.T.: -0.004 min
Response: 2617228
Conc: 19.82 ug/ml



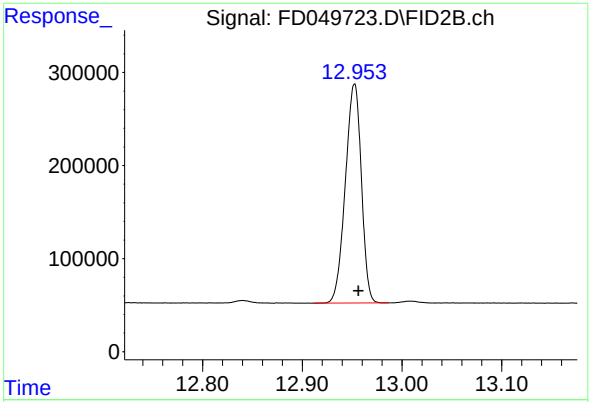
#11 ortho-Terphenyl (SURR)

R.T.: 11.609 min
Delta R.T.: -0.003 min
Response: 2804214
Conc: 19.82 ug/ml



#12 Fluoranthene (C21.85)

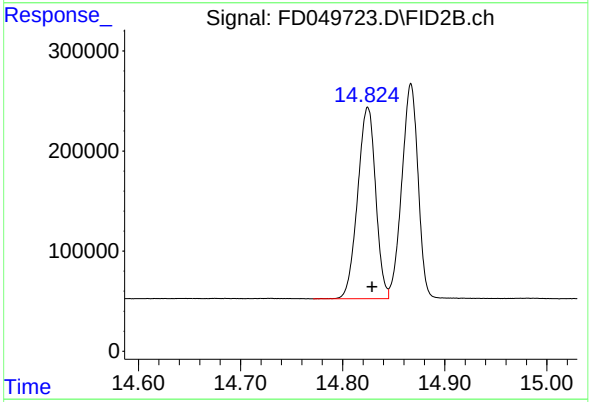
R.T.: 12.655 min
Delta R.T.: -0.004 min
Response: 2654106
Conc: 19.71 ug/ml



#13 Pyrene (C20.8)

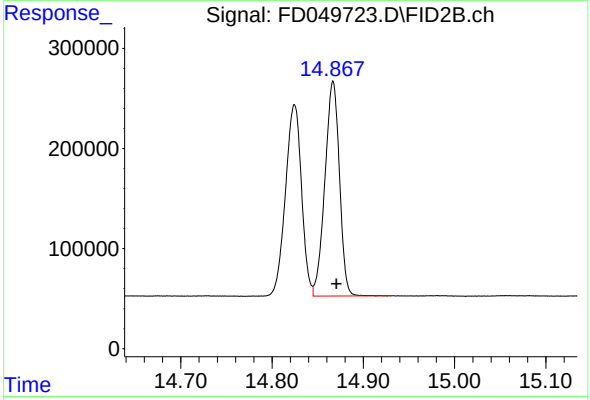
R.T.: 12.952 min
Delta R.T.: -0.004 min
Response: 2629491
Conc: 19.77 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



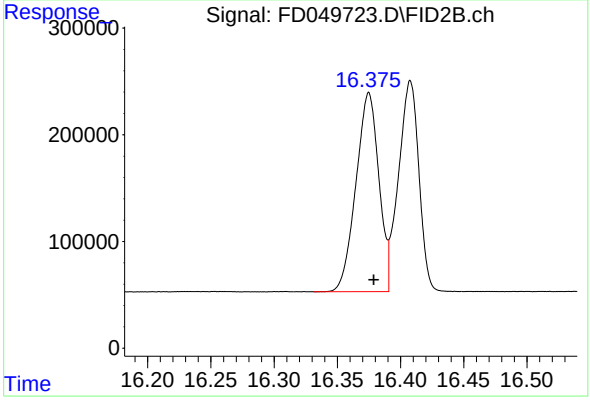
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.824 min
Delta R.T.: -0.005 min
Response: 2340110
Conc: 19.57 ug/ml



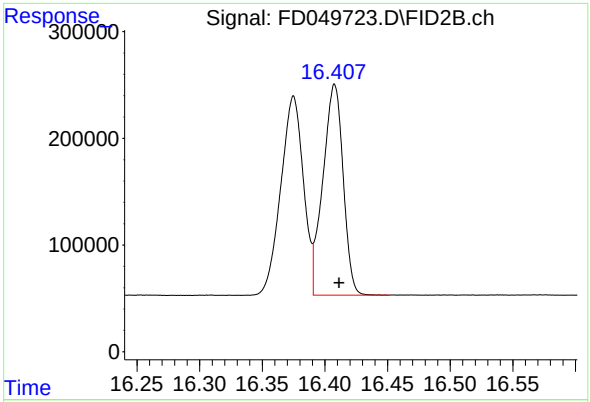
#15 Chrysene (C27.41)

R.T.: 14.867 min
Delta R.T.: -0.004 min
Response: 2375059
Conc: 19.52 ug/ml



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

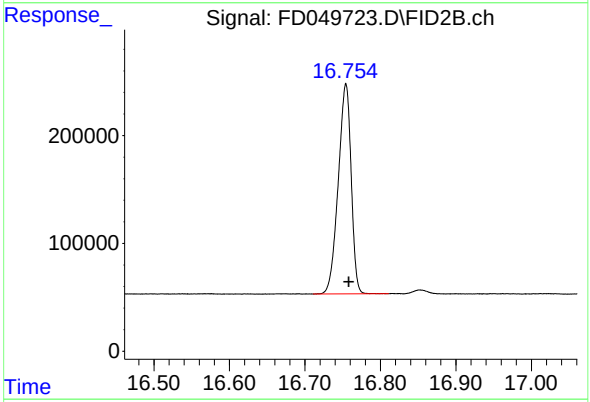
R.T.: 16.375 min
Delta R.T.: -0.004 min
Response: 2350033
Conc: 19.61 ug/ml



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

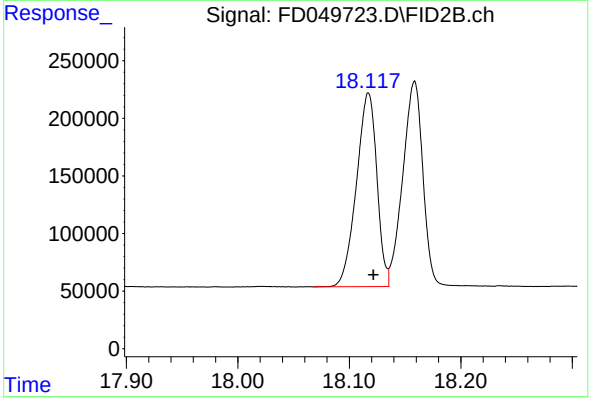
R.T.: 16.407 min
Delta R.T.: -0.004 min
Response: 2218226
Conc: 19.69 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



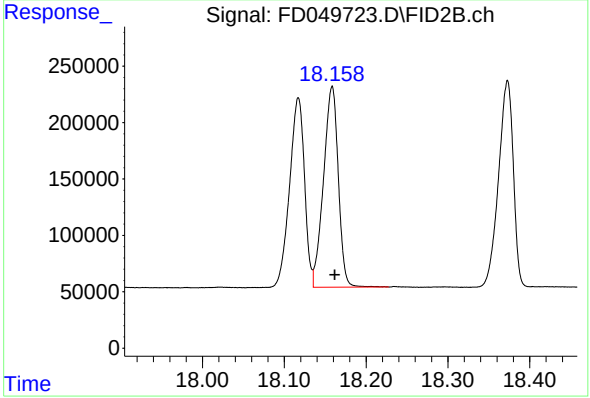
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.754 min
Delta R.T.: -0.004 min
Response: 2314710
Conc: 19.73 ug/ml



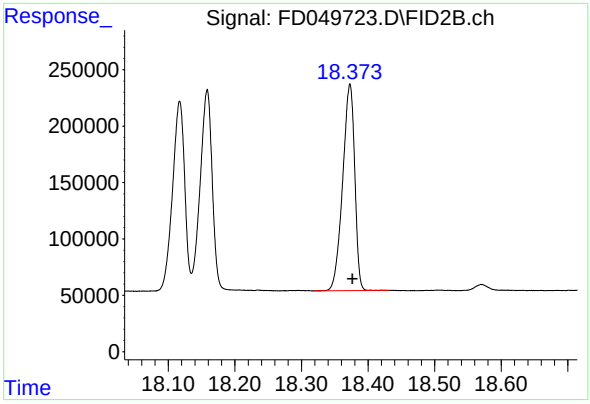
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.117 min
Delta R.T.: -0.005 min
Response: 2138000
Conc: 19.65 ug/ml



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

R.T.: 18.158 min
Delta R.T.: -0.004 min
Response: 2236318
Conc: 19.63 ug/ml



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

R.T.: 18.373 min
Delta R.T.: -0.004 min
Response: 2303694
Conc: 19.80 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049723.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 13:00
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 090425.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	4.487	4.458	4.531	BB	246115	2140546	76.33%	4.193%
2	6.031	5.991	6.098	BB	272485	2479492	88.42%	4.856%
3	7.086	7.048	7.148	BB	275318	2596693	92.60%	5.086%
4	7.697	7.668	7.758	BB	239042	2231641	79.58%	4.371%
5	8.365	8.334	8.414	BB	284957	2749499	98.05%	5.385%
6	8.562	8.518	8.624	BB	162641	1599409	57.04%	3.133%
7	8.661	8.628	8.700	BB	283355	2751173	98.11%	5.389%
8	9.442	9.411	9.501	BB	279347	2761041	98.46%	5.408%
9	10.840	10.795	10.881	VV	271275	2765682	98.63%	5.417%
10	10.915	10.881	10.978	VB	247545	2617228	93.33%	5.126%
11	11.609	11.521	11.644	BB	263980	2804214	100.00%	5.492%
12	12.655	12.621	12.708	BB	246534	2654106	94.65%	5.198%
13	12.952	12.911	12.987	BV	234856	2629491	93.77%	5.150%
14	14.824	14.771	14.845	BV	191324	2340110	83.45%	4.583%
15	14.867	14.845	14.928	VB	215019	2375059	84.70%	4.652%
16	16.375	16.331	16.391	BV	186222	2350033	83.80%	4.603%
17	16.408	16.391	16.451	VB	198031	2218226	79.10%	4.345%
18	16.754	16.711	16.811	BB	195320	2314710	82.54%	4.534%
19	18.117	18.068	18.135	BV	168949	2138000	76.24%	4.188%
20	18.158	18.135	18.228	VB	177787	2236318	79.75%	4.380%
21	18.373	18.318	18.431	BB	181688	2303694	82.15%	4.512%

Sum of corrected areas: 51056365

Aromatic EPH 090425.M Fri Sep 05 06:45:12 2025

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

Inital Calibration Report for SequenceID : FE092425AL

AreaCount

Parameter Range	FE055962.D	FE055963.D	FE055964.D	FE055965.D	FE055966.D	
Aliphatic C9-C12	37542791.000	22892697.000	8462672.000	4191009.000	2124515.000	
Aliphatic C12-C16	28448375.000	15981763.000	6036724.000	3116285.000	1580906.000	
Aliphatic C16-C21	47319022.000	24326712.000	9480340.000	5176882.000	2683832.000	
Aliphatic C21-C28	56499296.000	28330990.000	11268637.000	6189034.000	3282975.000	
Aliphatic C28-C40	72708634.000	38000593.000	15509370.000	8760386.000	4744762.000	
Aliphatic EPH	242518118.000	129532755.000	50757743.000	27433596.000	14416990.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	140027.9566664	6.995				
Aliphatic C12-C16	153376.491	4.607				
Aliphatic C16-C21	165879.737333	5.694				
Aliphatic C21-C28	148527.1505	7.073				
Aliphatic C28-C40	136251.923333	11.27				
Aliphatic EPH	146449.7892216	6.809				

Concentration

Parameter Range	FE055962.D	FE055963.D	FE055964.D	FE055965.D	FE055966.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	FE055962.D	FE055963.D	FE055964.D	FE055965.D	FE055966.D	
Aliphatic C9-C12	125142.636666	152617.980000	141044.533333	139700.300000	141634.333333	
Aliphatic C12-C16	142241.875000	159817.630000	150918.100000	155814.250000	158090.600000	
Aliphatic C16-C21	157730.073333	162178.080000	158005.666666	172562.733333	178922.133333	

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

Inital Calibration Report for SequenceID : FE092425AL

Aliphatic C21-C28	141248.240000	141654.950000	140857.962500	154725.850000	164148.750000	
Aliphatic C28-C40	121181.056666	126668.643333	129244.750000	146006.433333	158158.733333	
Aliphatic EPH	134732.287777	143925.283333	140993.730555	152408.866666	160188.777777	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055962.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 09:07
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Sep 24 11:03:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 11:00:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	12.083	17950450	100.309 ug/ml
Spiked Amount	50.000		Recovery =	200.62%
12)	S 1-chlorooctadecane (S...	13.517	13586232	101.305 ug/ml
Spiked Amount	50.000		Recovery =	202.61%
	Target Compounds			
1)	T n-Nonane (C9)	3.411	12115570	93.377 ug/ml
2)	T n-Decane (C10)	4.672	12431596	93.812 ug/ml
3)	T A~Naphthalene (C11.7)	6.393	15093772	97.535 ug/ml
4)	T n-Dodecane (C12)	6.849	12995625	94.848 ug/ml
5)	T A~2-methylnaphthalene...	7.496	15025333	99.098 ug/ml
6)	T n-Tetradecane (C14)	8.687	13579491	96.250 ug/ml
7)	T n-Hexadecane (C16)	10.303	14868884	97.774 ug/ml
8)	T n-Octadecane (C18)	11.755	15922809	98.959 ug/ml
10)	T n-Eicosane (C20)	13.069	15819296	100.191 ug/ml
11)	T n-Heneicosane (C21)	13.683	15576917	100.620 ug/ml
13)	T n-Docosane (C22)	14.272	15366782	100.893 ug/ml
14)	T n-Tetracosane (C24)	15.378	14649046	100.840 ug/ml
15)	T n-Hexacosane (C26)	16.402	13607731	100.166 ug/ml
16)	T n-Octacosane (C28)	17.355	12875737	98.451 ug/ml
17)	T n-Tricontane (C30)	18.245	13054346	96.132 ug/ml
18)	T n-Dotriacontane (C32)	19.079	12955482	94.902 ug/ml
19)	T n-Tetratriacontane (C34)	19.864	12597203	95.888 ug/ml
20)	T n-Hexatriacontane (C36)	20.607	11820206	97.397 ug/ml
21)	T n-Octatriacontane (C38)	21.384	11503060	99.564 ug/ml
22)	T n-Tetracontane (C40)	22.374	10778337	97.367 ug/ml

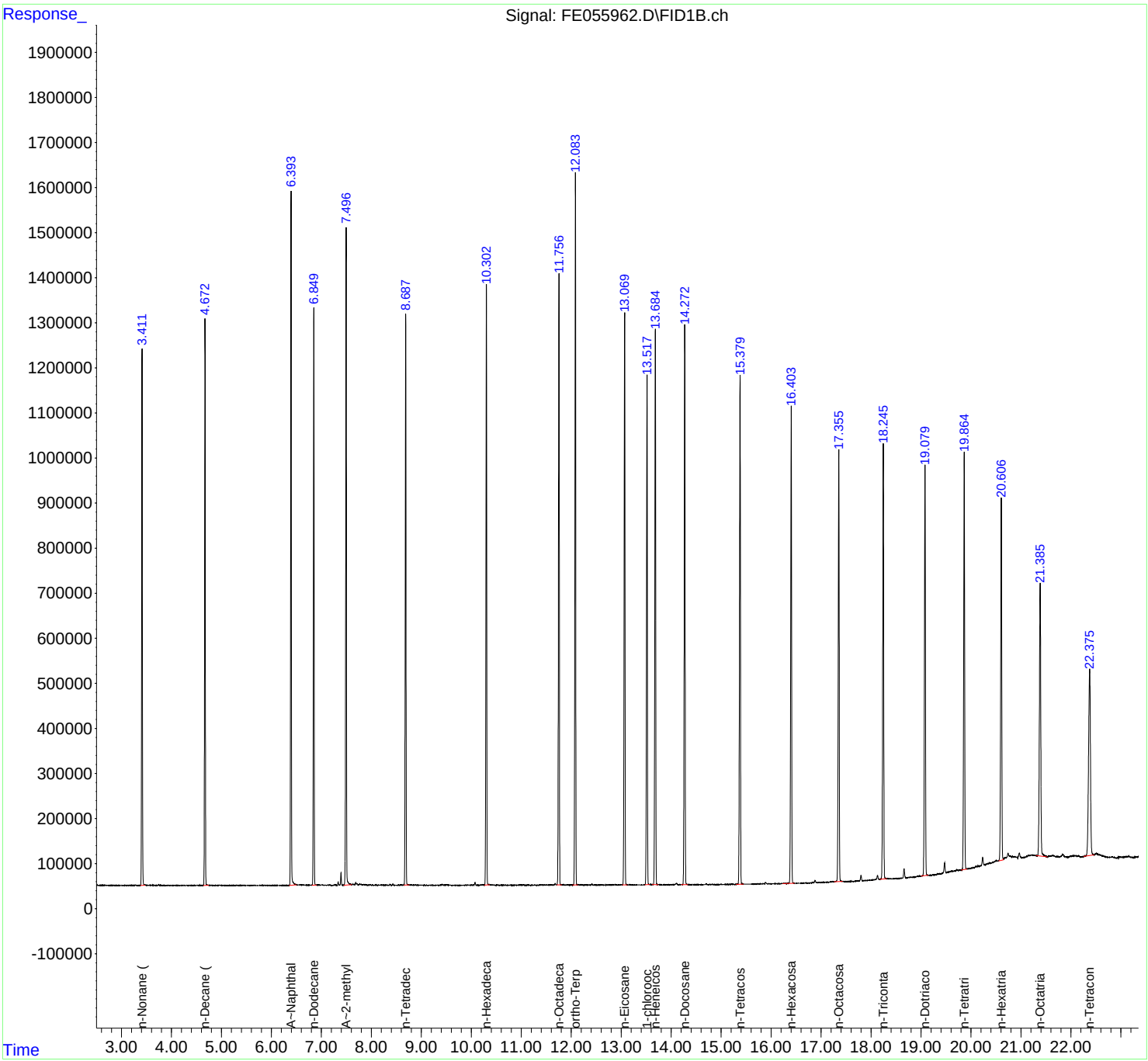
(f)=RT Delta > 1/2 Window (m)=manual int.

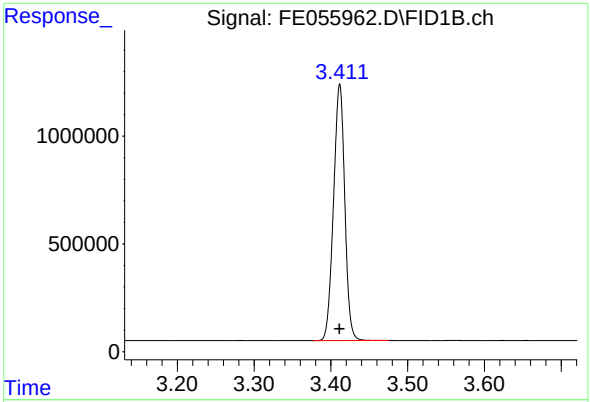
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055962.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 09:07
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Sep 24 11:03:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 11:00:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

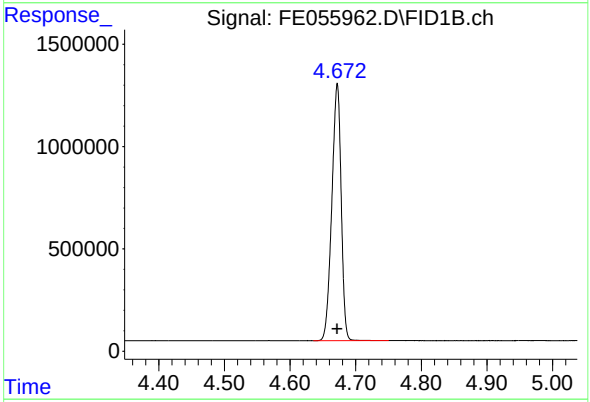




#1 n-Nonane (C9)

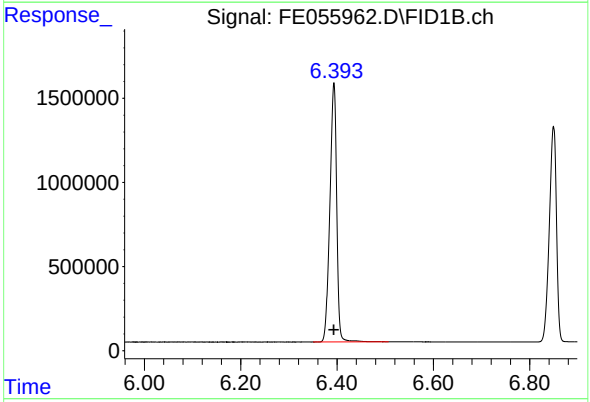
R.T.: 3.411 min
Delta R.T.: 0.000 min
Response: 12115570
Conc: 93.38 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



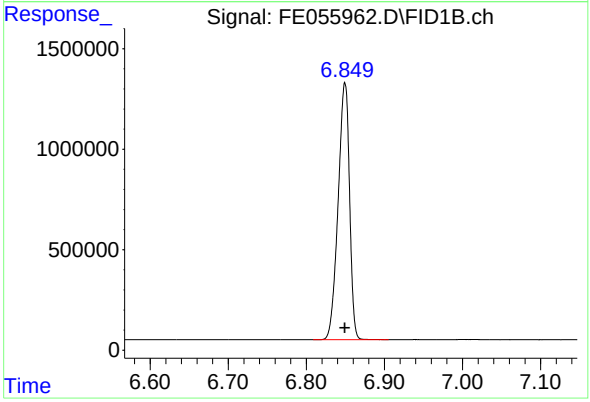
#2 n-Decane (C10)

R.T.: 4.672 min
Delta R.T.: 0.000 min
Response: 12431596
Conc: 93.81 ug/ml



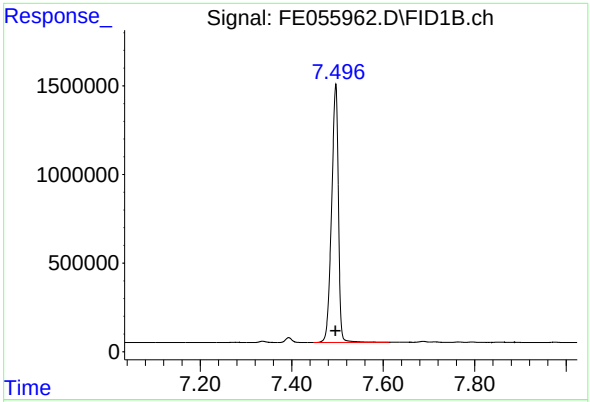
#3 A~Naphthalene (C11.7)

R.T.: 6.393 min
Delta R.T.: 0.000 min
Response: 15093772
Conc: 97.54 ug/ml



#4 n-Dodecane (C12)

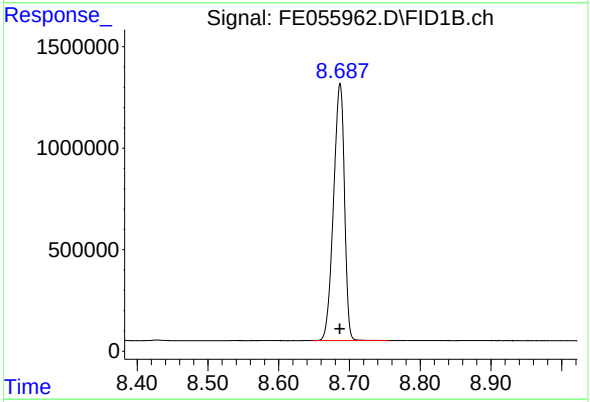
R.T.: 6.849 min
Delta R.T.: 0.000 min
Response: 12995625
Conc: 94.85 ug/ml



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

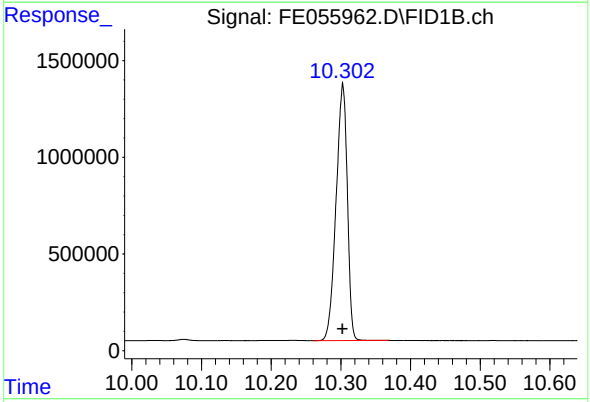
R.T.: 7.496 min
Delta R.T.: 0.000 min
Response: 15025333
Conc: 99.10 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



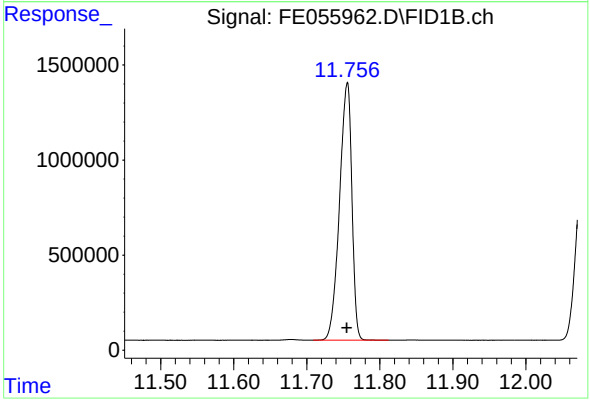
#6 n-Tetradecane (C14)

R.T.: 8.687 min
Delta R.T.: 0.000 min
Response: 13579491
Conc: 96.25 ug/ml



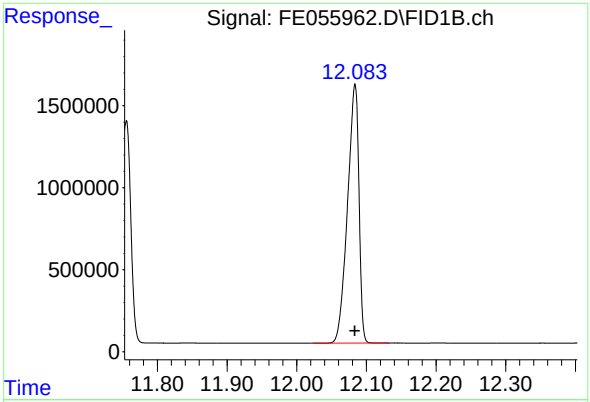
#7 n-Hexadecane (C16)

R.T.: 10.303 min
Delta R.T.: 0.000 min
Response: 14868884
Conc: 97.77 ug/ml



#8 n-Octadecane (C18)

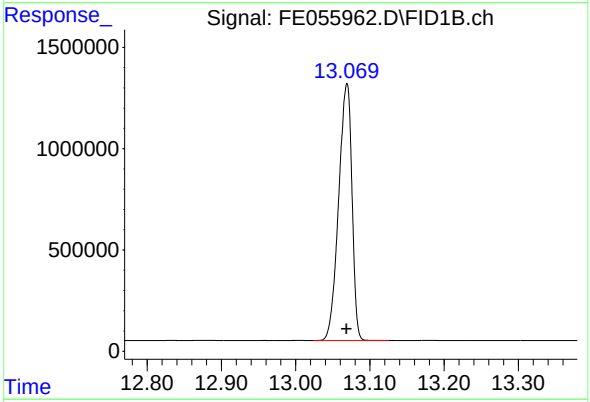
R.T.: 11.755 min
Delta R.T.: 0.000 min
Response: 15922809
Conc: 98.96 ug/ml



#9 ortho-Terphenyl (SURR)

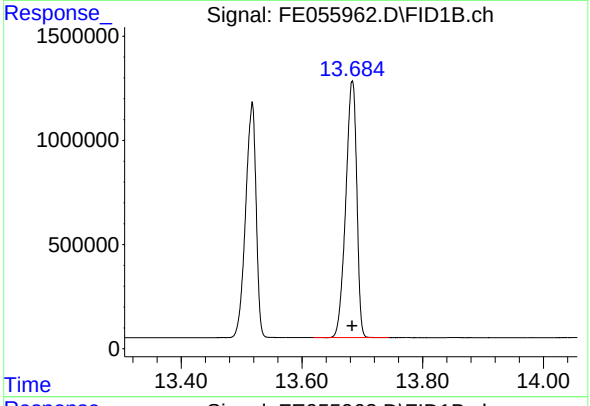
R.T.: 12.083 min
Delta R.T.: 0.000 min
Response: 17950450
Conc: 100.31 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



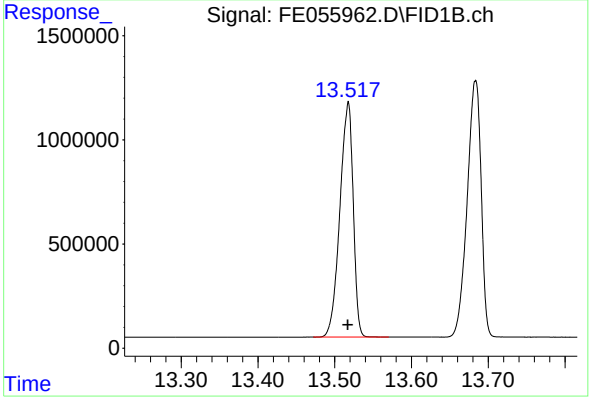
#10 n-Eicosane (C20)

R.T.: 13.069 min
Delta R.T.: 0.000 min
Response: 15819296
Conc: 100.19 ug/ml



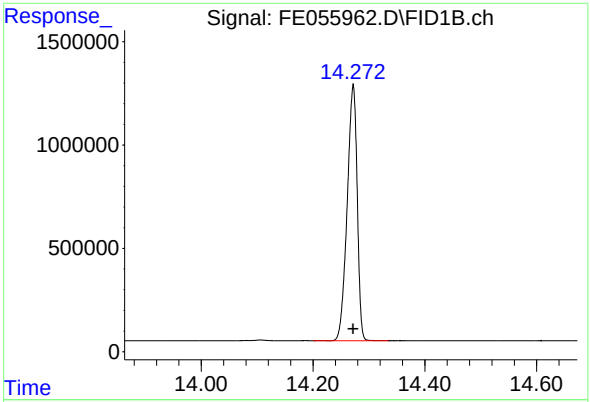
#11 n-Heneicosane (C21)

R.T.: 13.683 min
Delta R.T.: 0.000 min
Response: 15576917
Conc: 100.62 ug/ml



#12 1-chlorooctadecane (SURR)

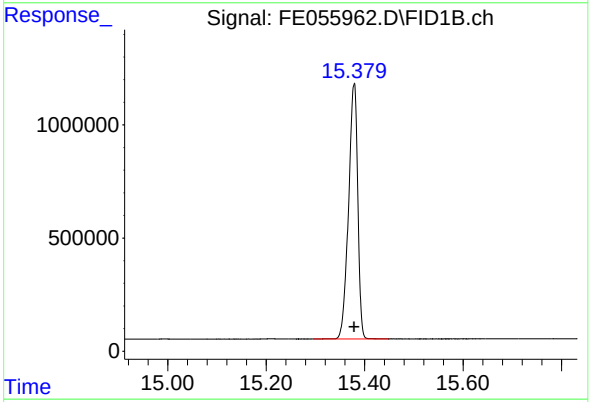
R.T.: 13.517 min
Delta R.T.: 0.000 min
Response: 13586232
Conc: 101.30 ug/ml



#13 n-Docosane (C22)

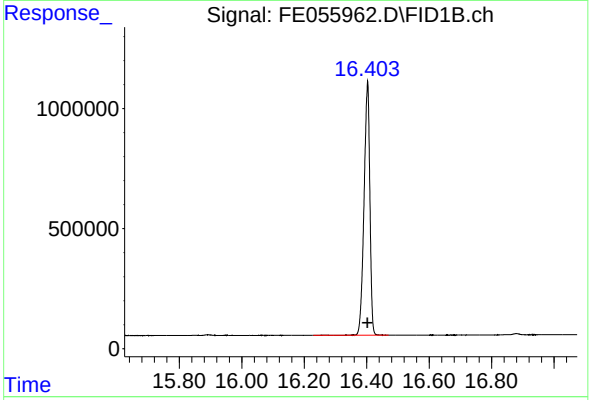
R.T.: 14.272 min
Delta R.T.: 0.000 min
Response: 15366782
Conc: 100.89 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



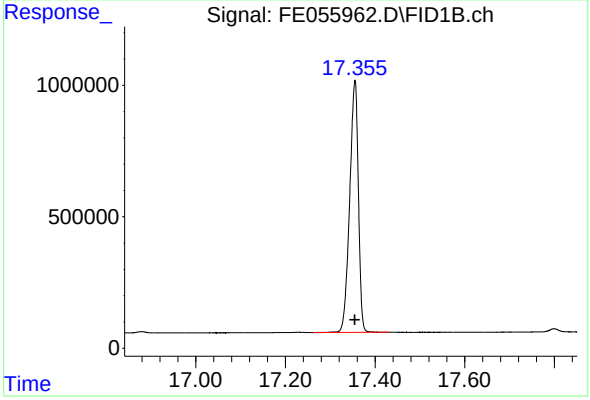
#14 n-Tetracosane (C24)

R.T.: 15.378 min
Delta R.T.: 0.000 min
Response: 14649046
Conc: 100.84 ug/ml



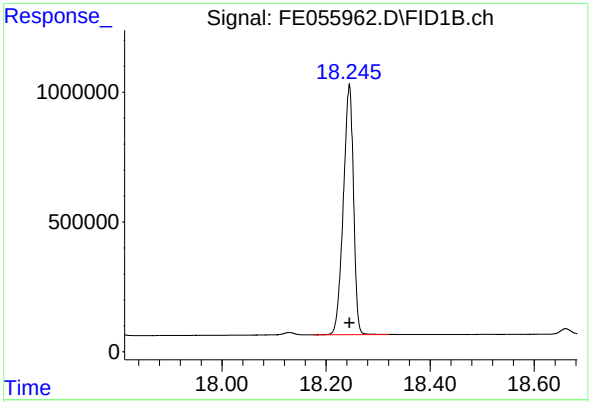
#15 n-Hexacosane (C26)

R.T.: 16.402 min
Delta R.T.: 0.000 min
Response: 13607731
Conc: 100.17 ug/ml



#16 n-Octacosane (C28)

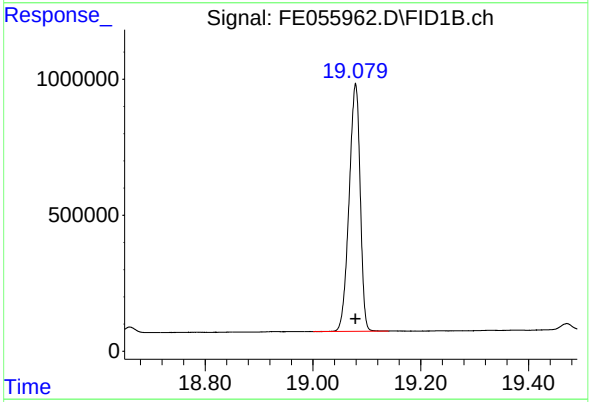
R.T.: 17.355 min
Delta R.T.: 0.000 min
Response: 12875737
Conc: 98.45 ug/ml



#17 n-Tricontane (C30)

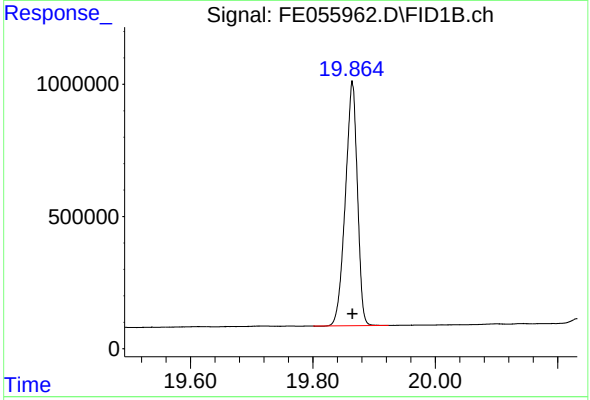
R.T.: 18.245 min
Delta R.T.: 0.000 min
Response: 13054346
Conc: 96.13 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



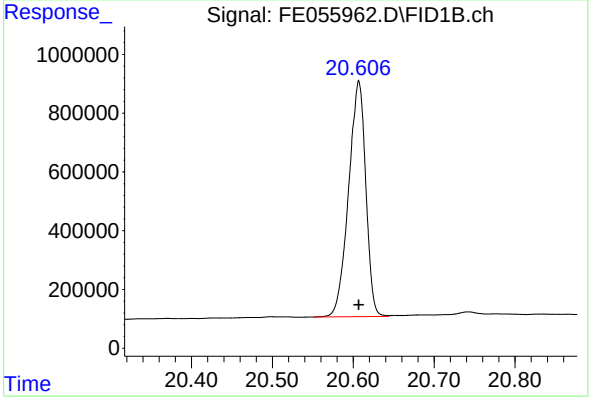
#18 n-Dotriacontane (C32)

R.T.: 19.079 min
Delta R.T.: 0.000 min
Response: 12955482
Conc: 94.90 ug/ml



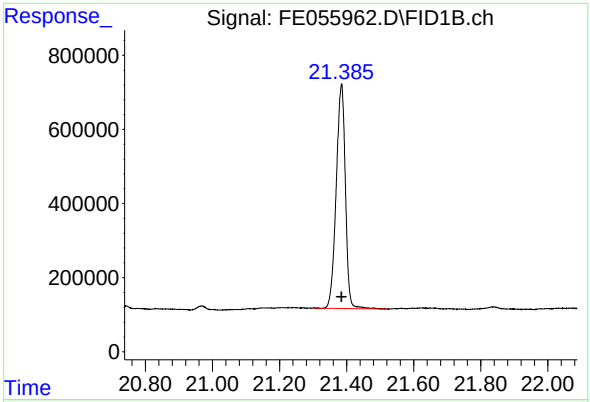
#19 n-Tetratriacontane (C34)

R.T.: 19.864 min
Delta R.T.: 0.000 min
Response: 12597203
Conc: 95.89 ug/ml



#20 n-Hexatriacontane (C36)

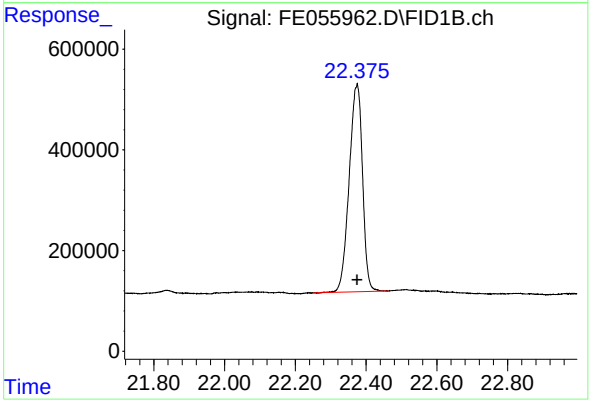
R.T.: 20.607 min
Delta R.T.: 0.000 min
Response: 11820206
Conc: 97.40 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.384 min
Delta R.T.: 0.000 min
Response: 11503060
Conc: 99.56 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.374 min
Delta R.T.: 0.000 min
Response: 10778337
Conc: 97.37 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055962.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 09:07
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.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	3.411	3.377	3.475	BB	1193159	12115570	67.49%	3.983%
2	4.672	4.635	4.750	BB	1259842	12431596	69.26%	4.087%
3	6.393	6.350	6.507	BB	1548803	15093772	84.09%	4.962%
4	6.849	6.809	6.905	BB	1279643	12995625	72.40%	4.272%
5	7.496	7.447	7.612	BV	1444836	15025333	83.70%	4.940%
6	8.687	8.649	8.755	BB	1270645	13579491	75.65%	4.464%
7	10.303	10.260	10.369	BB	1320044	14868884	82.83%	4.888%
8	11.755	11.709	11.812	BB	1355244	15922809	88.70%	5.235%
9	12.083	12.024	12.132	BB	1585493	17950450	100.00%	5.901%
10	13.069	13.024	13.125	BB	1269287	15819296	88.13%	5.201%
11	13.517	13.472	13.570	BB	1123920	13586232	75.69%	4.467%
12	13.683	13.619	13.744	BB	1232389	15576917	86.78%	5.121%
13	14.272	14.200	14.335	BB	1243326	15366782	85.61%	5.052%
14	15.378	15.295	15.449	BB	1126624	14649046	81.61%	4.816%
15	16.402	16.229	16.470	BB	1045801	13607731	75.81%	4.474%
16	17.355	17.262	17.430	BB	961185	12875737	71.73%	4.233%
17	18.245	18.175	18.320	BB	969341	13054346	72.72%	4.292%
18	19.079	19.000	19.140	BB	910160	12955482	72.17%	4.259%
19	19.864	19.800	19.924	BB	924104	12597203	70.18%	4.141%
20	20.607	20.550	20.644	BV	804428	11820206	65.85%	3.886%
21	21.385	21.300	21.525	BV	607871	11503060	64.08%	3.782%
22	22.374	22.250	22.464	BV	410718	10778337	60.04%	3.543%
			Sum of corrected areas:			304173905		

Aliphatic EPH 092425.M Wed Sep 24 15:36:25 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055963.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 09:37
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 24 11:04:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 11:00:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	12.077	9105995	50.587 ug/ml
Spiked Amount	50.000		Recovery =	101.17%
12) S	1-chlorooctadecane (S...	13.512	6779455	50.366 ug/ml
Spiked Amount	50.000		Recovery =	100.73%
	Target Compounds			
1) T	n-Nonane (C9)	3.414	7521327	55.044 ug/ml
2) T	n-Decane (C10)	4.671	7621160	54.769 ug/ml
3) T	A~Naphthalene (C11.7)	6.390	8539649	53.340 ug/ml
4) T	n-Dodecane (C12)	6.846	7750210	54.193 ug/ml
5) T	A~2-methylnaphthalene...	7.492	8232099	52.783 ug/ml
6) T	n-Tetradecane (C14)	8.683	7796895	53.390 ug/ml
7) T	n-Hexadecane (C16)	10.299	8184868	52.484 ug/ml
8) T	n-Octadecane (C18)	11.750	8429200	51.566 ug/ml
10) T	n-Eicosane (C20)	13.064	8067243	50.724 ug/ml
11) T	n-Heneicosane (C21)	13.679	7830269	50.385 ug/ml
13) T	n-Docosane (C22)	14.267	7654502	50.171 ug/ml
14) T	n-Tetracosane (C24)	15.374	7266695	50.015 ug/ml
15) T	n-Hexacosane (C26)	16.397	6822136	50.145 ug/ml
16) T	n-Octacosane (C28)	17.350	6587657	50.247 ug/ml
17) T	n-Tricontane (C30)	18.240	6773890	49.922 ug/ml
18) T	n-Dotriacontane (C32)	19.075	6740087	49.580 ug/ml
19) T	n-Tetratriacontane (C34)	19.861	6516174	49.733 ug/ml
20) T	n-Hexatriacontane (C36)	20.601	6074929	50.038 ug/ml
21) T	n-Octatriacontane (C38)	21.379	6099413	51.828 ug/ml
22) T	n-Tetracontane (C40)	22.366	5796100	51.549 ug/ml

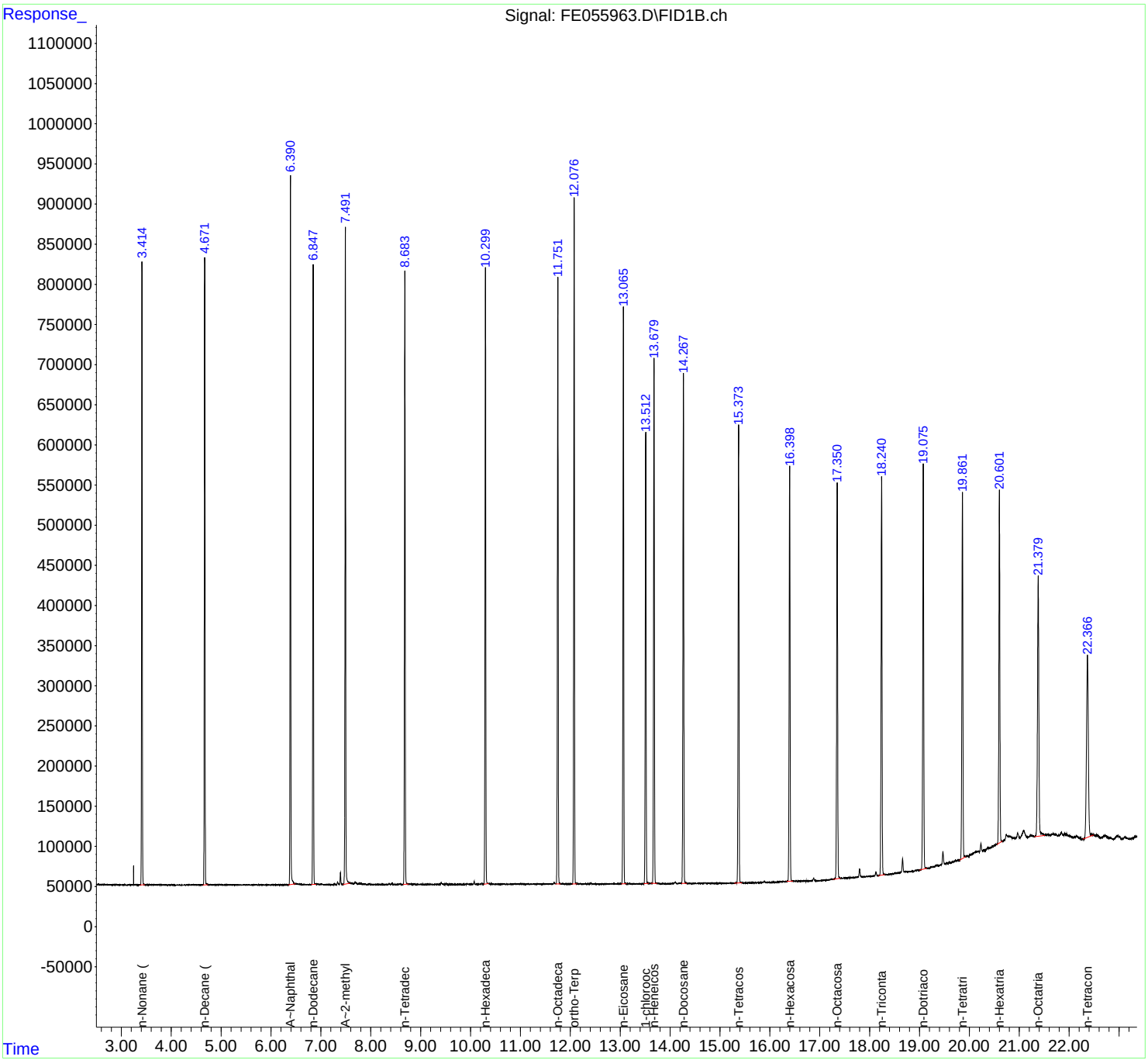
(f)=RT Delta > 1/2 Window (m)=manual int.

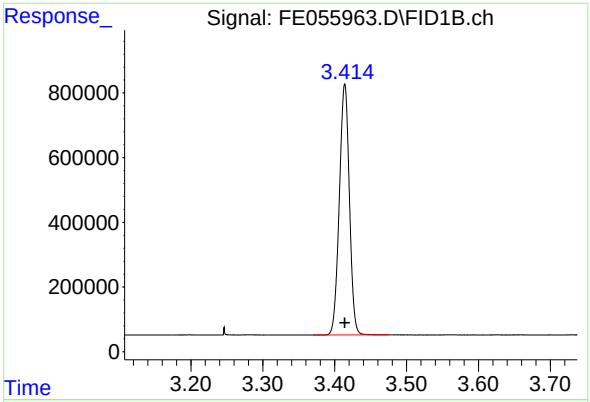
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055963.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 09:37
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 24 11:04:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 11:00:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

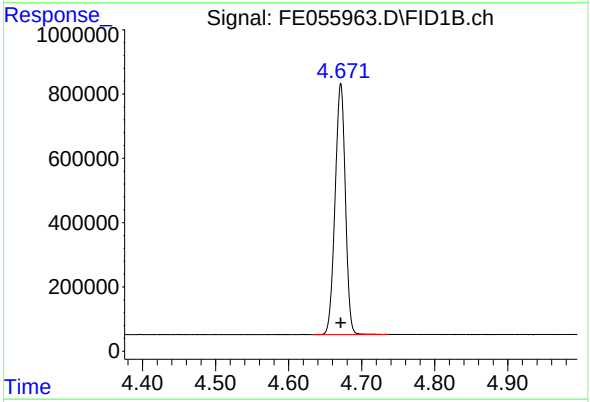




#1 n-Nonane (C9)

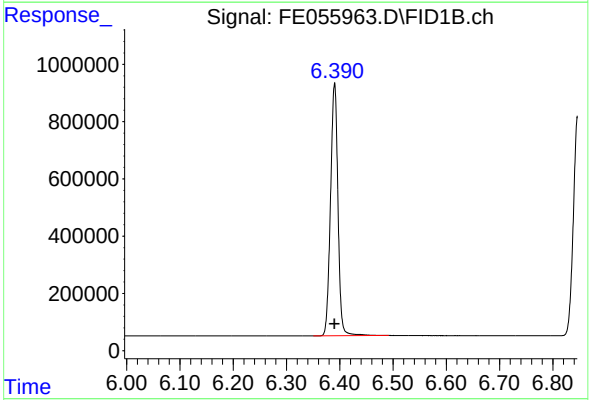
R.T.: 3.414 min
Delta R.T.: 0.000 min
Response: 7521327
Conc: 55.04 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



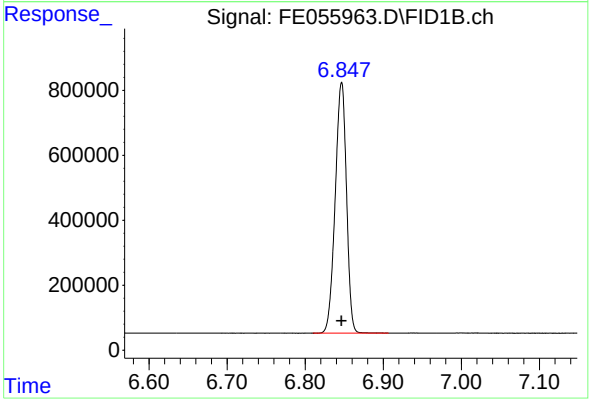
#2 n-Decane (C10)

R.T.: 4.671 min
Delta R.T.: 0.000 min
Response: 7621160
Conc: 54.77 ug/ml



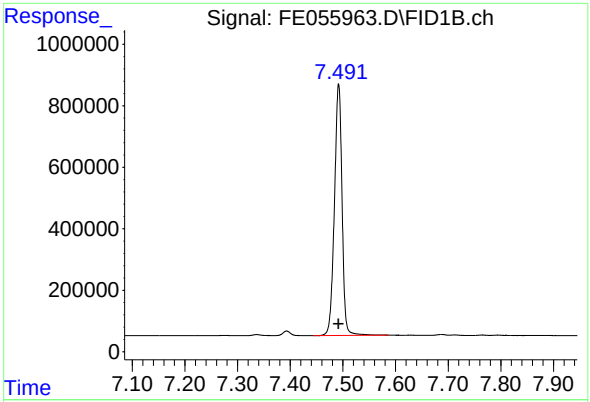
#3 A~Naphthalene (C11.7)

R.T.: 6.390 min
Delta R.T.: 0.000 min
Response: 8539649
Conc: 53.34 ug/ml



#4 n-Dodecane (C12)

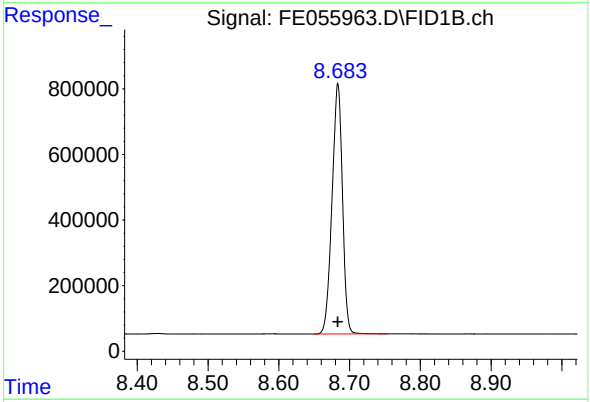
R.T.: 6.846 min
Delta R.T.: 0.000 min
Response: 7750210
Conc: 54.19 ug/ml



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

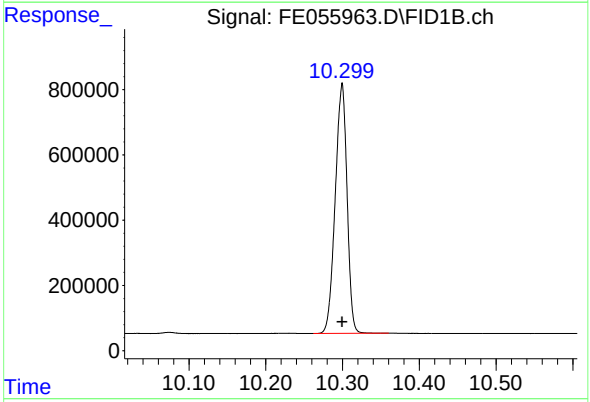
R.T.: 7.492 min
Delta R.T.: 0.000 min
Response: 8232099
Conc: 52.78 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



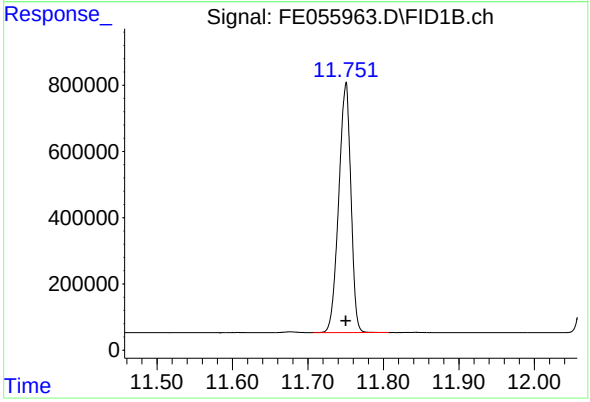
#6 n-Tetradecane (C14)

R.T.: 8.683 min
Delta R.T.: 0.000 min
Response: 7796895
Conc: 53.39 ug/ml



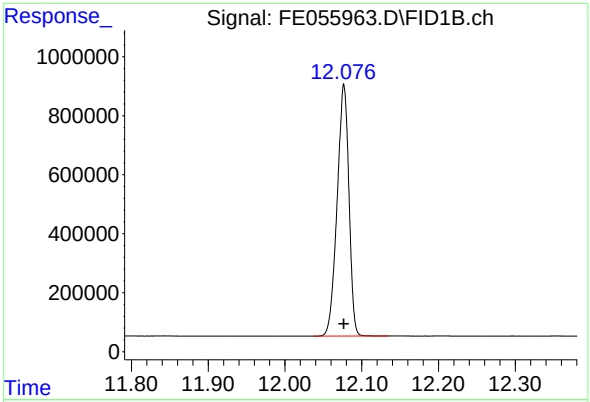
#7 n-Hexadecane (C16)

R.T.: 10.299 min
Delta R.T.: 0.000 min
Response: 8184868
Conc: 52.48 ug/ml



#8 n-Octadecane (C18)

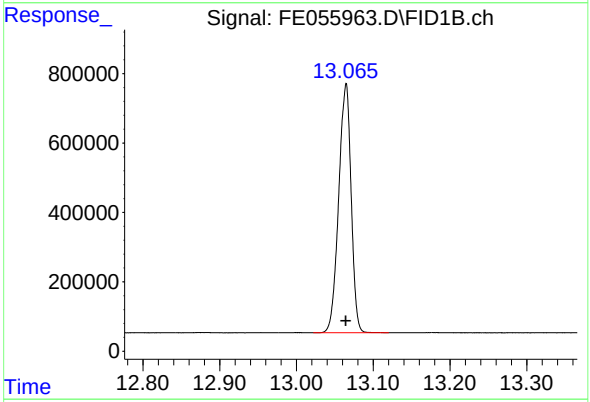
R.T.: 11.750 min
Delta R.T.: 0.000 min
Response: 8429200
Conc: 51.57 ug/ml



#9 ortho-Terphenyl (SURR)

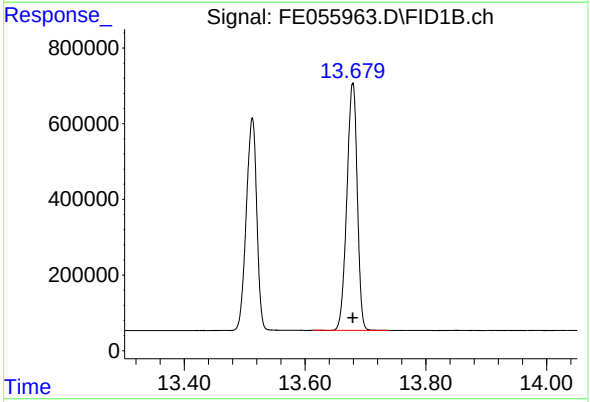
R.T.: 12.077 min
Delta R.T.: 0.000 min
Response: 9105995
Conc: 50.59 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



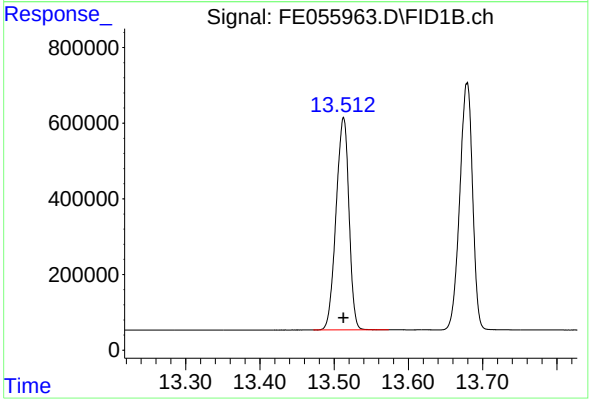
#10 n-Eicosane (C20)

R.T.: 13.064 min
Delta R.T.: 0.000 min
Response: 8067243
Conc: 50.72 ug/ml



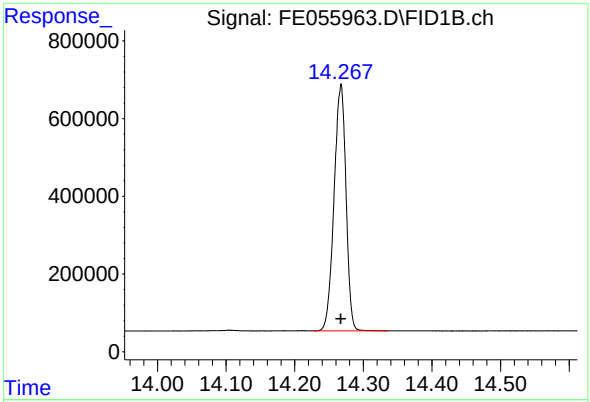
#11 n-Heneicosane (C21)

R.T.: 13.679 min
Delta R.T.: 0.000 min
Response: 7830269
Conc: 50.39 ug/ml



#12 1-chlorooctadecane (SURR)

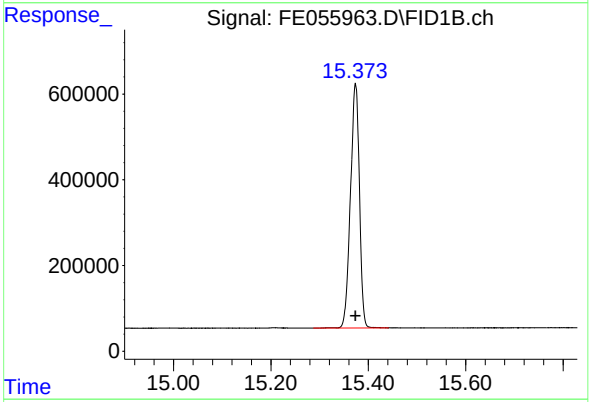
R.T.: 13.512 min
Delta R.T.: 0.000 min
Response: 6779455
Conc: 50.37 ug/ml



#13 n-Docosane (C22)

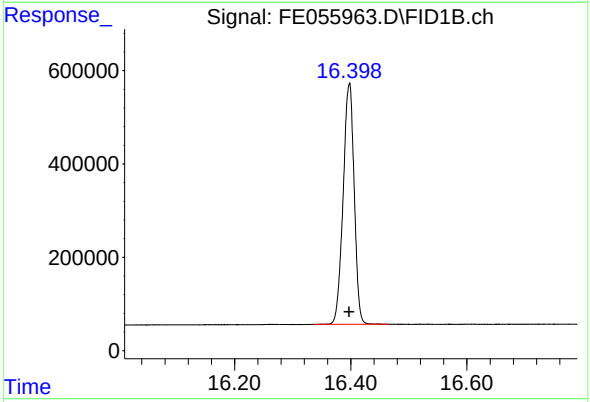
R.T.: 14.267 min
Delta R.T.: 0.000 min
Response: 7654502
Conc: 50.17 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



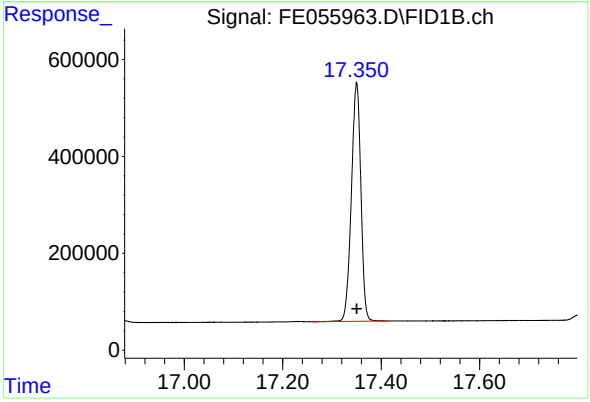
#14 n-Tetracosane (C24)

R.T.: 15.374 min
Delta R.T.: 0.000 min
Response: 7266695
Conc: 50.01 ug/ml



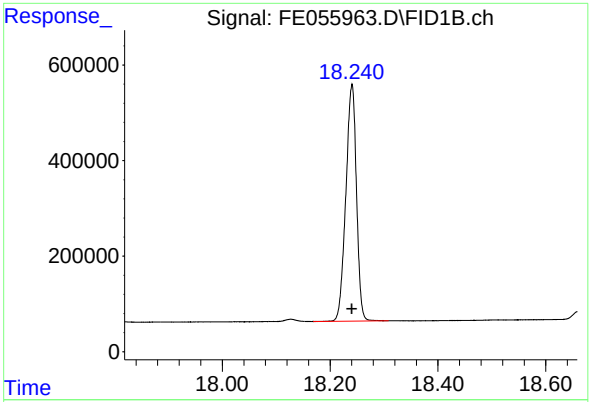
#15 n-Hexacosane (C26)

R.T.: 16.397 min
Delta R.T.: 0.000 min
Response: 6822136
Conc: 50.14 ug/ml



#16 n-Octacosane (C28)

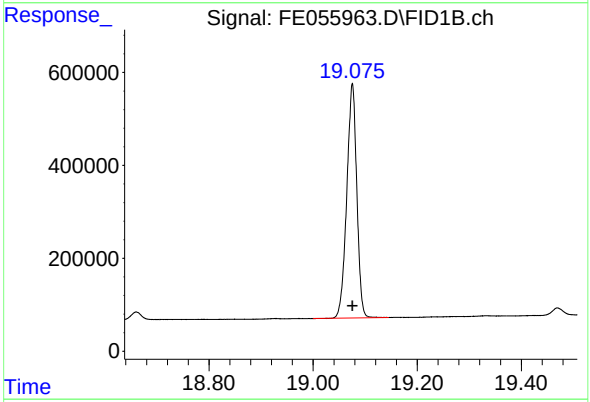
R.T.: 17.350 min
Delta R.T.: 0.000 min
Response: 6587657
Conc: 50.25 ug/ml



#17 n-Tricontane (C30)

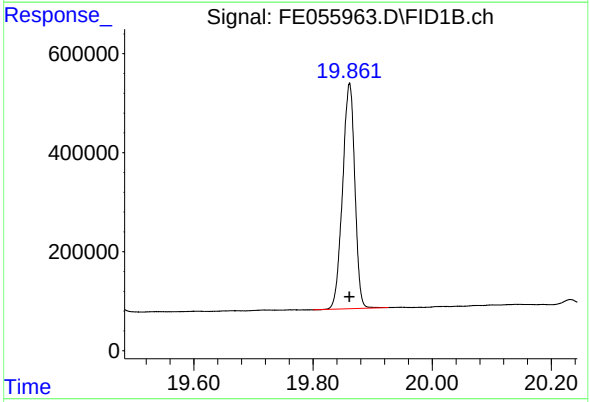
R.T.: 18.240 min
Delta R.T.: 0.000 min
Response: 6773890
Conc: 49.92 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



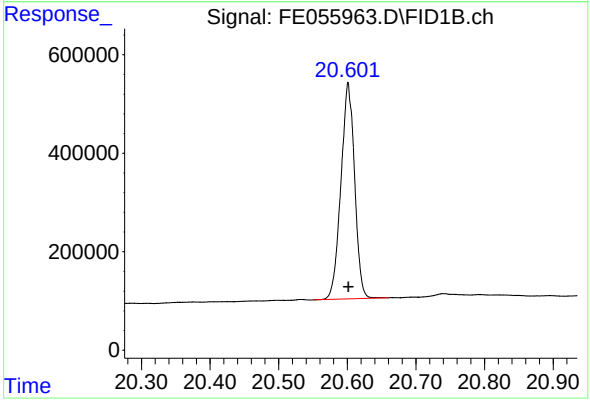
#18 n-Dotriacontane (C32)

R.T.: 19.075 min
Delta R.T.: 0.000 min
Response: 6740087
Conc: 49.58 ug/ml



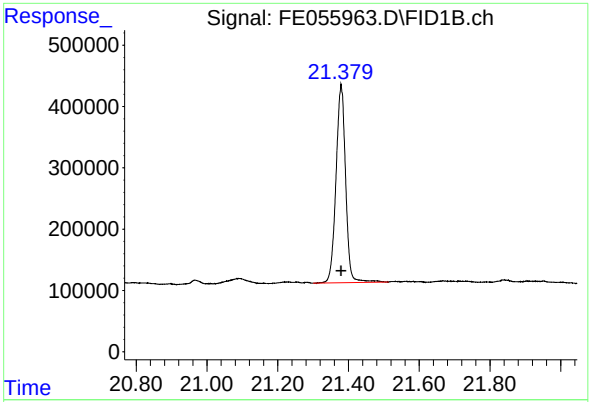
#19 n-Tetratriacontane (C34)

R.T.: 19.861 min
Delta R.T.: 0.000 min
Response: 6516174
Conc: 49.73 ug/ml



#20 n-Hexatriacontane (C36)

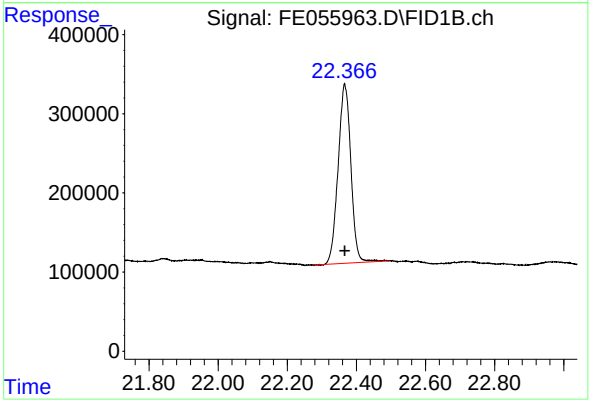
R.T.: 20.601 min
Delta R.T.: 0.000 min
Response: 6074929
Conc: 50.04 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.379 min
Delta R.T.: 0.000 min
Response: 6099413
Conc: 51.83 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.366 min
Delta R.T.: 0.000 min
Response: 5796100
Conc: 51.55 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055963.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 09:37
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.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	3.414	3.370	3.475	BB	776378	7521327	82.60%	4.637%
2	4.671	4.633	4.737	BB	783988	7621160	83.69%	4.699%
3	6.390	6.350	6.492	BB	881625	8539649	93.78%	5.265%
4	6.847	6.810	6.907	BB	774294	7750210	85.11%	4.778%
5	7.492	7.443	7.587	BB	820251	8232099	90.40%	5.076%
6	8.683	8.648	8.755	BB	764717	7796895	85.62%	4.807%
7	10.299	10.262	10.360	BB	758326	8184868	89.88%	5.046%
8	11.750	11.707	11.807	BB	753100	8429200	92.57%	5.197%
9	12.077	12.037	12.135	BB	854162	9105995	100.00%	5.614%
10	13.064	13.022	13.120	BB	711166	8067243	88.59%	4.974%
11	13.512	13.472	13.573	BB	561964	6779455	74.45%	4.180%
12	13.679	13.613	13.738	BB	653612	7830269	85.99%	4.828%
13	14.267	14.227	14.337	BB	630007	7654502	84.06%	4.719%
14	15.374	15.287	15.442	BB	570219	7266695	79.80%	4.480%
15	16.397	16.335	16.465	BB	514565	6822136	74.92%	4.206%
16	17.350	17.262	17.415	BB	493737	6587657	72.34%	4.062%
17	18.240	18.168	18.308	BB	493734	6773890	74.39%	4.177%
18	19.075	19.000	19.145	BB	505191	6740087	74.02%	4.156%
19	19.861	19.800	19.927	BB	456961	6516174	71.56%	4.018%
20	20.601	20.550	20.660	BB	437030	6074929	66.71%	3.746%
21	21.379	21.300	21.513	BV	323069	6099413	66.98%	3.761%
22	22.366	22.275	22.493	BB	226612	5796100	63.65%	3.574%

Sum of corrected areas: 162189953

Aliphatic EPH 092425.M Wed Sep 24 15:36:54 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055964.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 10:07
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 24 11:01:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 11:00:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	12.072	3567994	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
12) S	1-chlorooctadecane (S...	13.509	2647245	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1) T	n-Nonane (C9)	3.411	2766852	20.000 ug/ml
2) T	n-Decane (C10)	4.669	2814312	20.000 ug/ml
3) T	A~Naphthalene (C11.7)	6.388	3171326	20.000 ug/ml
4) T	n-Dodecane (C12)	6.844	2881508	20.000 ug/ml
5) T	A~2-methylnaphthalene...	7.489	3059763	20.000 ug/ml
6) T	n-Tetradecane (C14)	8.681	2927514	20.000 ug/ml
7) T	n-Hexadecane (C16)	10.296	3109210	20.000 ug/ml
8) T	n-Octadecane (C18)	11.746	3251555	20.000 ug/ml
10) T	n-Eicosane (C20)	13.061	3151785	20.000 ug/ml
11) T	n-Heneicosane (C21)	13.675	3077000	20.000 ug/ml
13) T	n-Docosane (C22)	14.264	3018934	20.000 ug/ml
14) T	n-Tetracosane (C24)	15.369	2880999	20.000 ug/ml
15) T	n-Hexacosane (C26)	16.394	2712524	20.000 ug/ml
16) T	n-Octacosane (C28)	17.346	2656180	20.000 ug/ml
17) T	n-Tricontane (C30)	18.236	2820975	20.000 ug/ml
18) T	n-Dotriacontane (C32)	19.071	2869454	20.000 ug/ml
19) T	n-Tetratriacontane (C34)	19.856	2735529	20.000 ug/ml
20) T	n-Hexatriacontane (C36)	20.598	2490383	20.000 ug/ml
21) T	n-Octatriacontane (C38)	21.374	2320773	20.000 ug/ml
22) T	n-Tetracontane (C40)	22.360	2272256	20.000 ug/ml

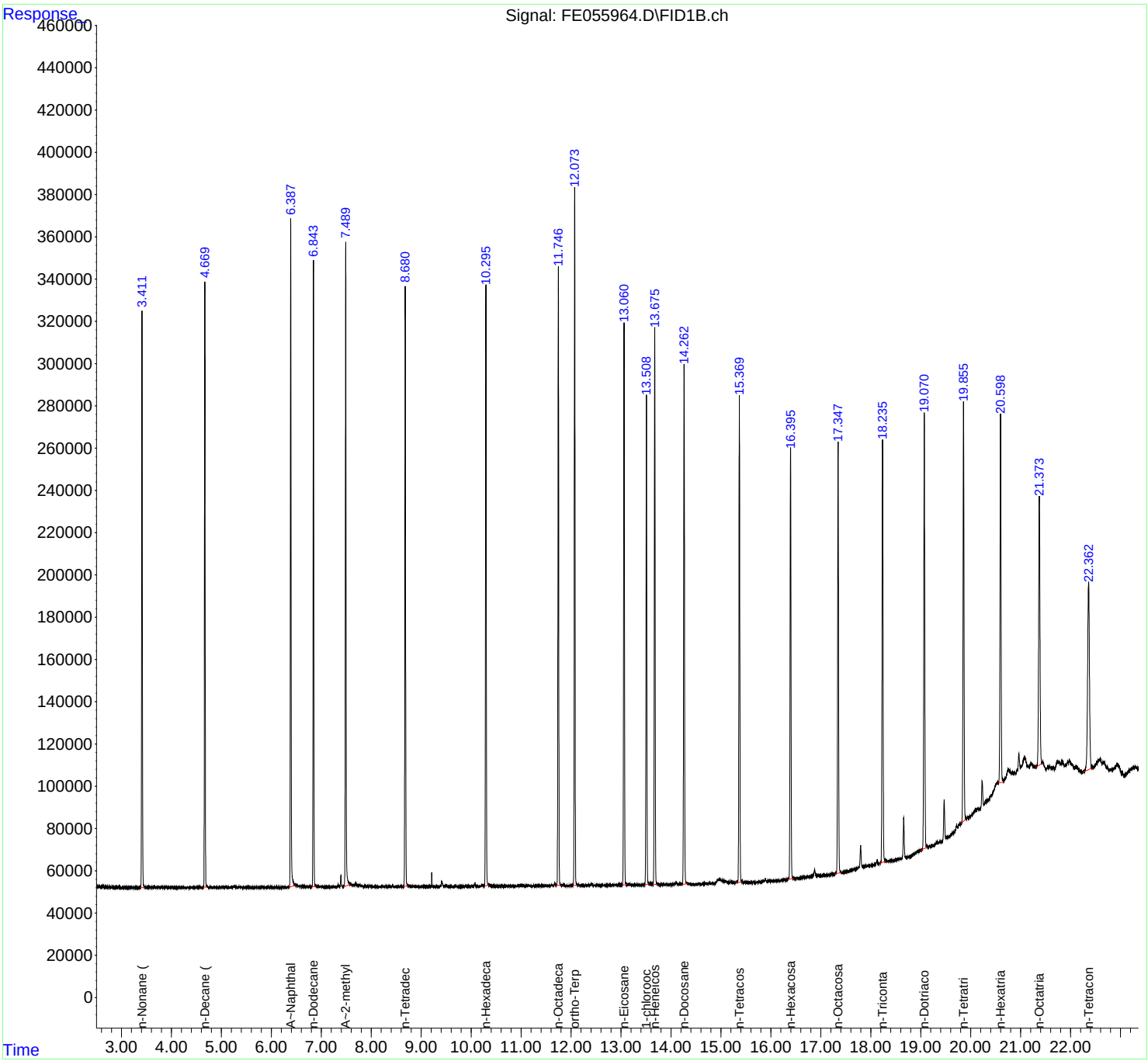
(f)=RT Delta > 1/2 Window (m)=manual int.

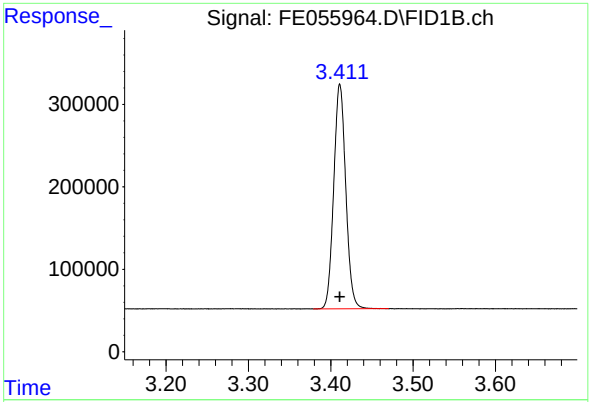
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055964.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 10:07
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 24 11:01:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 11:00:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

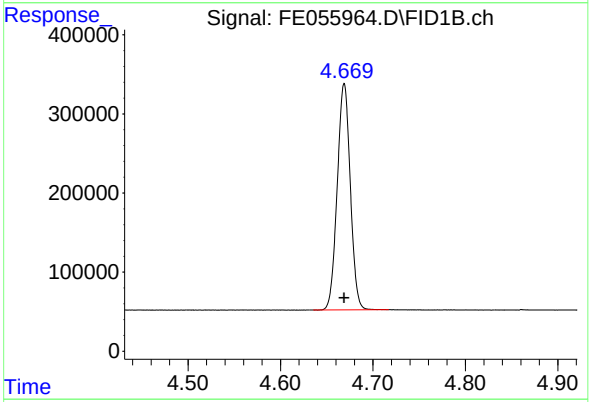




#1 n-Nonane (C9)

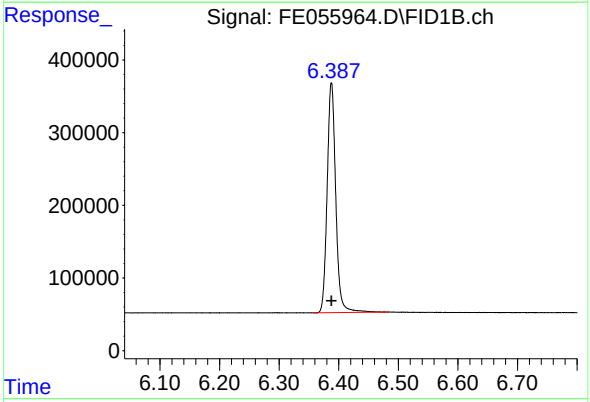
R.T.: 3.411 min
Delta R.T.: 0.000 min
Response: 2766852
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



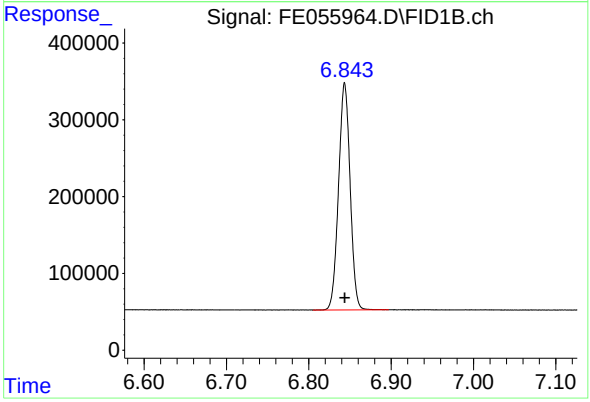
#2 n-Decane (C10)

R.T.: 4.669 min
Delta R.T.: 0.000 min
Response: 2814312
Conc: 20.00 ug/ml



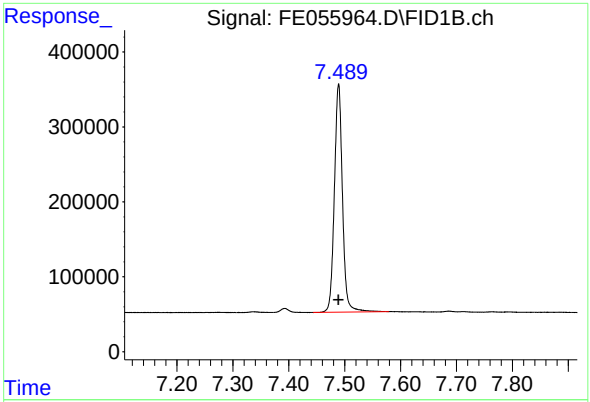
#3 A~Naphthalene (C11.7)

R.T.: 6.388 min
Delta R.T.: 0.000 min
Response: 3171326
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

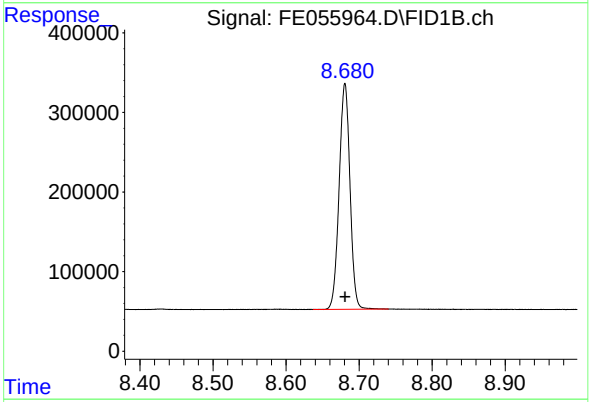
R.T.: 6.844 min
Delta R.T.: 0.000 min
Response: 2881508
Conc: 20.00 ug/ml



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

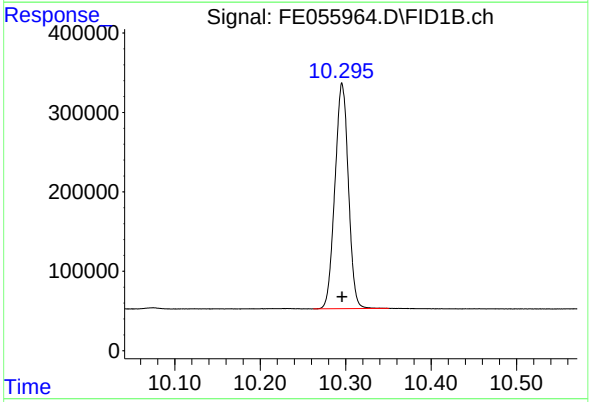
R.T.: 7.489 min
Delta R.T.: 0.000 min
Response: 3059763
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



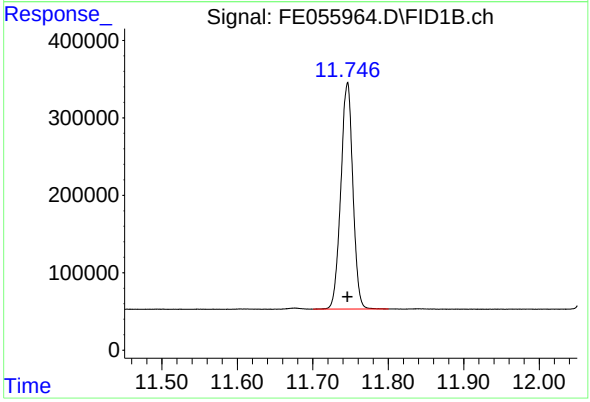
#6 n-Tetradecane (C14)

R.T.: 8.681 min
Delta R.T.: 0.000 min
Response: 2927514
Conc: 20.00 ug/ml



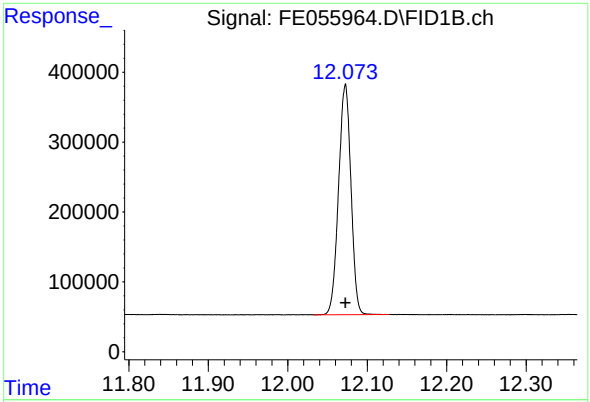
#7 n-Hexadecane (C16)

R.T.: 10.296 min
Delta R.T.: 0.000 min
Response: 3109210
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

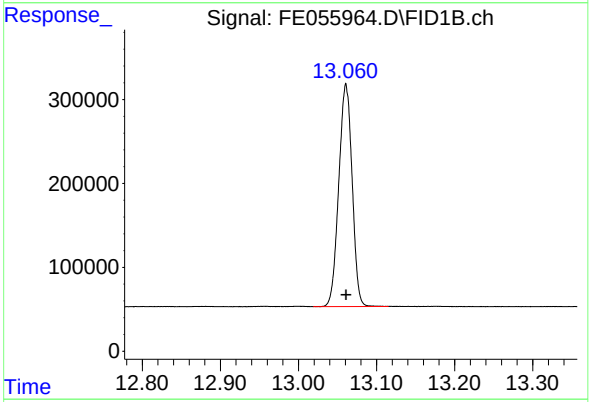
R.T.: 11.746 min
Delta R.T.: 0.000 min
Response: 3251555
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

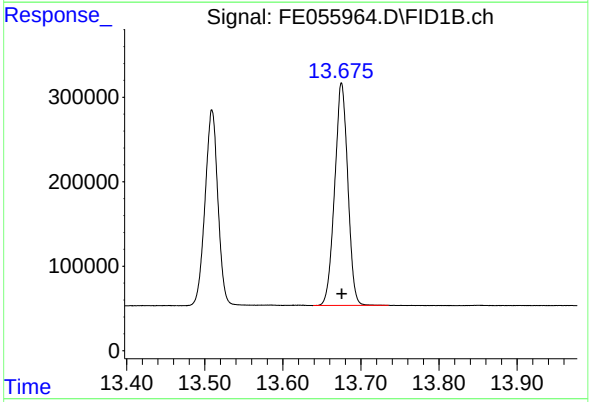
R.T.: 12.072 min
Delta R.T.: 0.000 min
Response: 3567994
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



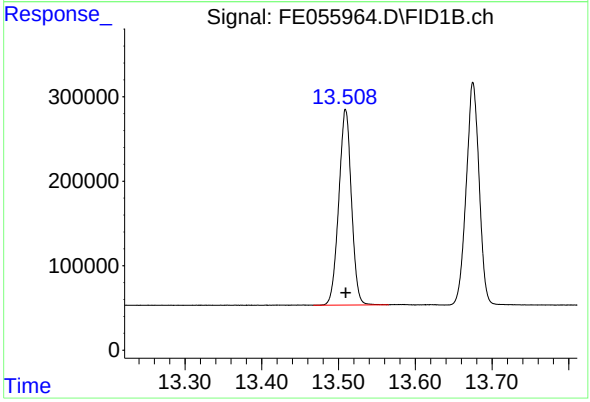
#10 n-Eicosane (C20)

R.T.: 13.061 min
Delta R.T.: 0.000 min
Response: 3151785
Conc: 20.00 ug/ml



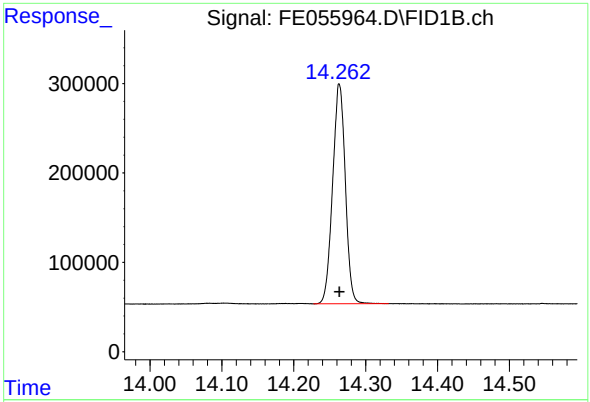
#11 n-Heneicosane (C21)

R.T.: 13.675 min
Delta R.T.: 0.000 min
Response: 3077000
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

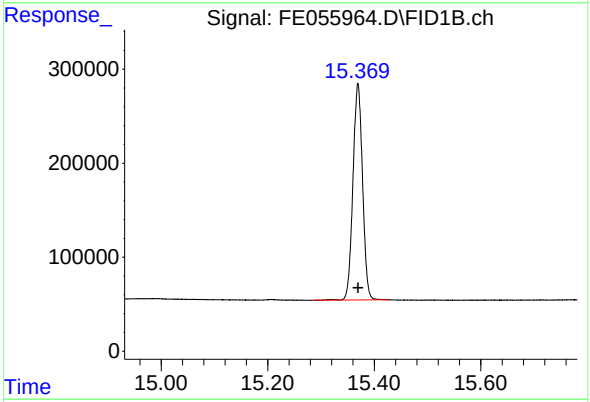
R.T.: 13.509 min
Delta R.T.: 0.000 min
Response: 2647245
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

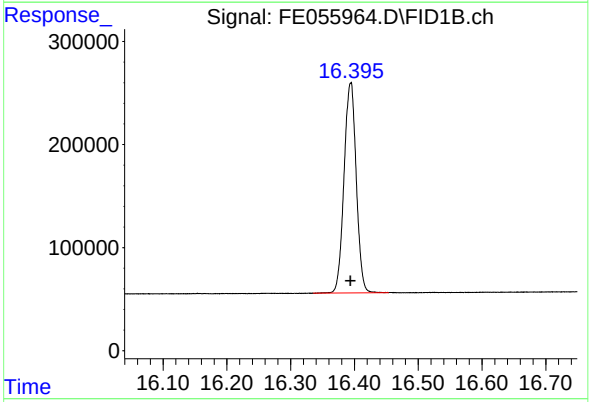
R.T.: 14.264 min
Delta R.T.: 0.000 min
Response: 3018934
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



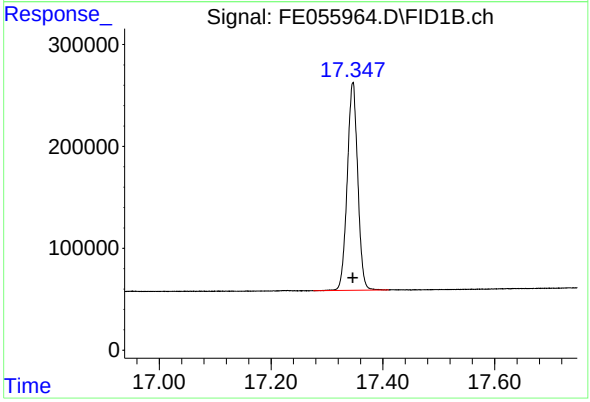
#14 n-Tetracosane (C24)

R.T.: 15.369 min
Delta R.T.: 0.000 min
Response: 2880999
Conc: 20.00 ug/ml



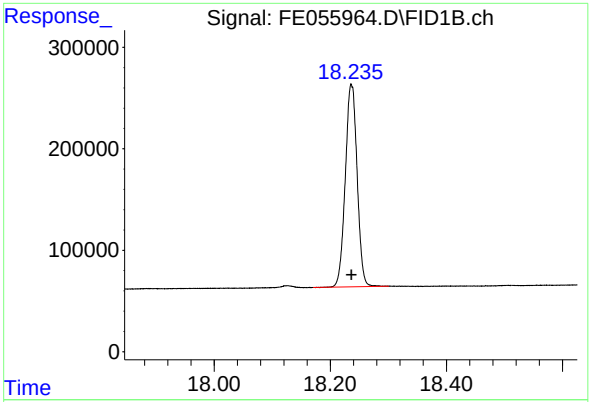
#15 n-Hexacosane (C26)

R.T.: 16.394 min
Delta R.T.: 0.000 min
Response: 2712524
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

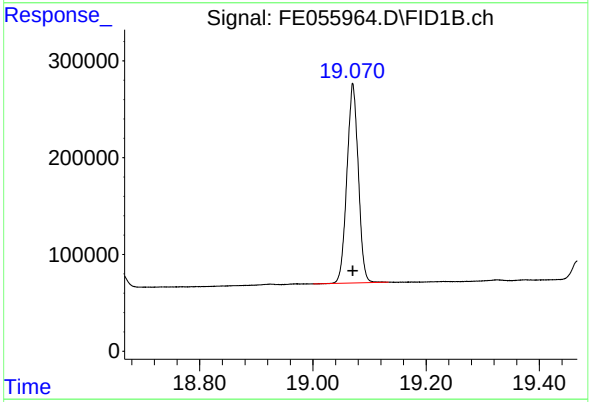
R.T.: 17.346 min
Delta R.T.: 0.000 min
Response: 2656180
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

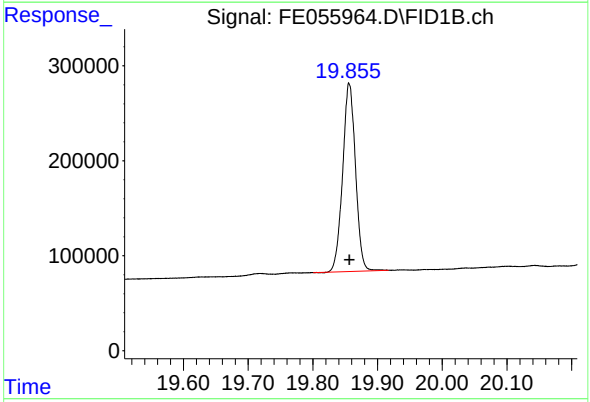
R.T.: 18.236 min
Delta R.T.: 0.000 min
Response: 2820975
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



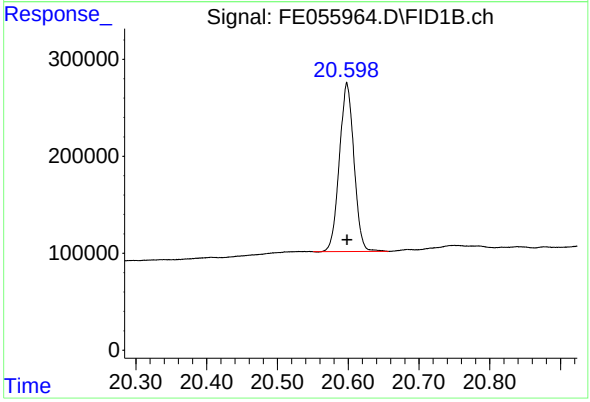
#18 n-Dotriacontane (C32)

R.T.: 19.071 min
Delta R.T.: 0.000 min
Response: 2869454
Conc: 20.00 ug/ml



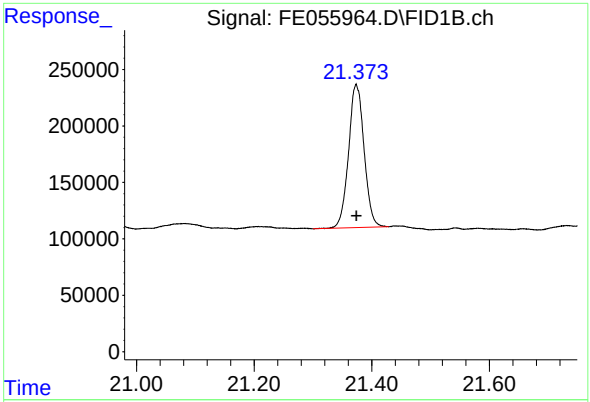
#19 n-Tetratriacontane (C34)

R.T.: 19.856 min
Delta R.T.: 0.000 min
Response: 2735529
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

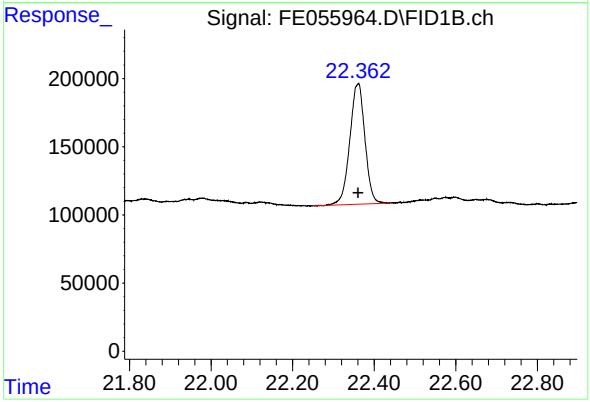
R.T.: 20.598 min
Delta R.T.: 0.000 min
Response: 2490383
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.374 min
Delta R.T.: 0.000 min
Response: 2320773
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.360 min
Delta R.T.: 0.000 min
Response: 2272256
Conc: 20.00 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055964.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 10:07
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.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	3.411	3.379	3.470	BB	272925	2766852	77.55%	4.378%
2	4.669	4.635	4.717	BB	286203	2814312	78.88%	4.453%
3	6.388	6.357	6.484	BB	317204	3171326	88.88%	5.018%
4	6.844	6.805	6.897	BB	295559	2881508	80.76%	4.559%
5	7.489	7.444	7.579	BB	304084	3059763	85.76%	4.841%
6	8.681	8.637	8.740	BB	284130	2927514	82.05%	4.632%
7	10.296	10.262	10.350	BB	283977	3109210	87.14%	4.919%
8	11.746	11.700	11.800	BB	291244	3251555	91.13%	5.145%
9	12.072	12.032	12.127	BB	328303	3567994	100.00%	5.645%
10	13.061	13.019	13.115	BB	265259	3151785	88.33%	4.987%
11	13.509	13.467	13.565	BB	232459	2647245	74.19%	4.188%
12	13.675	13.639	13.735	BB	263085	3077000	86.24%	4.868%
13	14.264	14.227	14.332	BB	245238	3018934	84.61%	4.776%
14	15.369	15.285	15.427	BB	230996	2880999	80.75%	4.558%
15	16.394	16.335	16.454	BB	203871	2712524	76.02%	4.292%
16	17.346	17.275	17.410	BB	204223	2656180	74.44%	4.203%
17	18.236	18.170	18.300	BB	198304	2820975	79.06%	4.463%
18	19.071	19.000	19.134	BB	206283	2869454	80.42%	4.540%
19	19.856	19.800	19.917	BB	197030	2735529	76.67%	4.328%
20	20.598	20.550	20.657	BV	173259	2490383	69.80%	3.940%
21	21.374	21.300	21.429	BV	126907	2320773	65.04%	3.672%
22	22.360	22.250	22.435	BB	88187	2272256	63.68%	3.595%
			Sum of corrected areas:			63204070		

Aliphatic EPH 092425.M Wed Sep 24 15:37:20 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055965.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 10:38
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 24 12:53:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:53:03 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	12.070	1954951	10.632 ug/ml
Spiked Amount	50.000		Recovery =	21.26%
12) S	1-chlorooctadecane (S...	13.507	1449608	10.566 ug/ml
Spiked Amount	50.000		Recovery =	21.13%
	Target Compounds			
1) T	n-Nonane (C9)	3.408	1363863	9.986 ug/ml
2) T	n-Decane (C10)	4.667	1391033	9.997 ug/ml
3) T	A~Naphthalene (C11.7)	6.387	1598546	9.989 ug/ml
4) T	n-Dodecane (C12)	6.843	1436113	10.031 ug/ml
5) T	A~2-methylnaphthalene...	7.488	1559116	9.998 ug/ml
6) T	n-Tetradecane (C14)	8.680	1496128	10.183 ug/ml
7) T	n-Hexadecane (C16)	10.294	1620157	10.289 ug/ml
8) T	n-Octadecane (C18)	11.744	1759004	10.560 ug/ml
10) T	n-Eicosane (C20)	13.059	1725698	10.625 ug/ml
11) T	n-Heneicosane (C21)	13.674	1692180	10.652 ug/ml
13) T	n-Docosane (C22)	14.262	1664317	10.666 ug/ml
14) T	n-Tetracosane (C24)	15.369	1581785	10.651 ug/ml
15) T	n-Hexacosane (C26)	16.393	1487319	10.683 ug/ml
16) T	n-Octacosane (C28)	17.345	1455613	10.805 ug/ml
17) T	n-Tricontane (C30)	18.235	1558692	11.075 ug/ml
18) T	n-Dotriacontane (C32)	19.070	1561208	11.073 ug/ml
19) T	n-Tetratriacontane (C34)	19.856	1478766	10.935 ug/ml
20) T	n-Hexatriacontane (C36)	20.597	1356484	10.855 ug/ml
21) T	n-Octatriacontane (C38)	21.372	1544566	12.174 ug/ml
22) T	n-Tetracontane (C40)	22.359	1260670	10.882 ug/ml

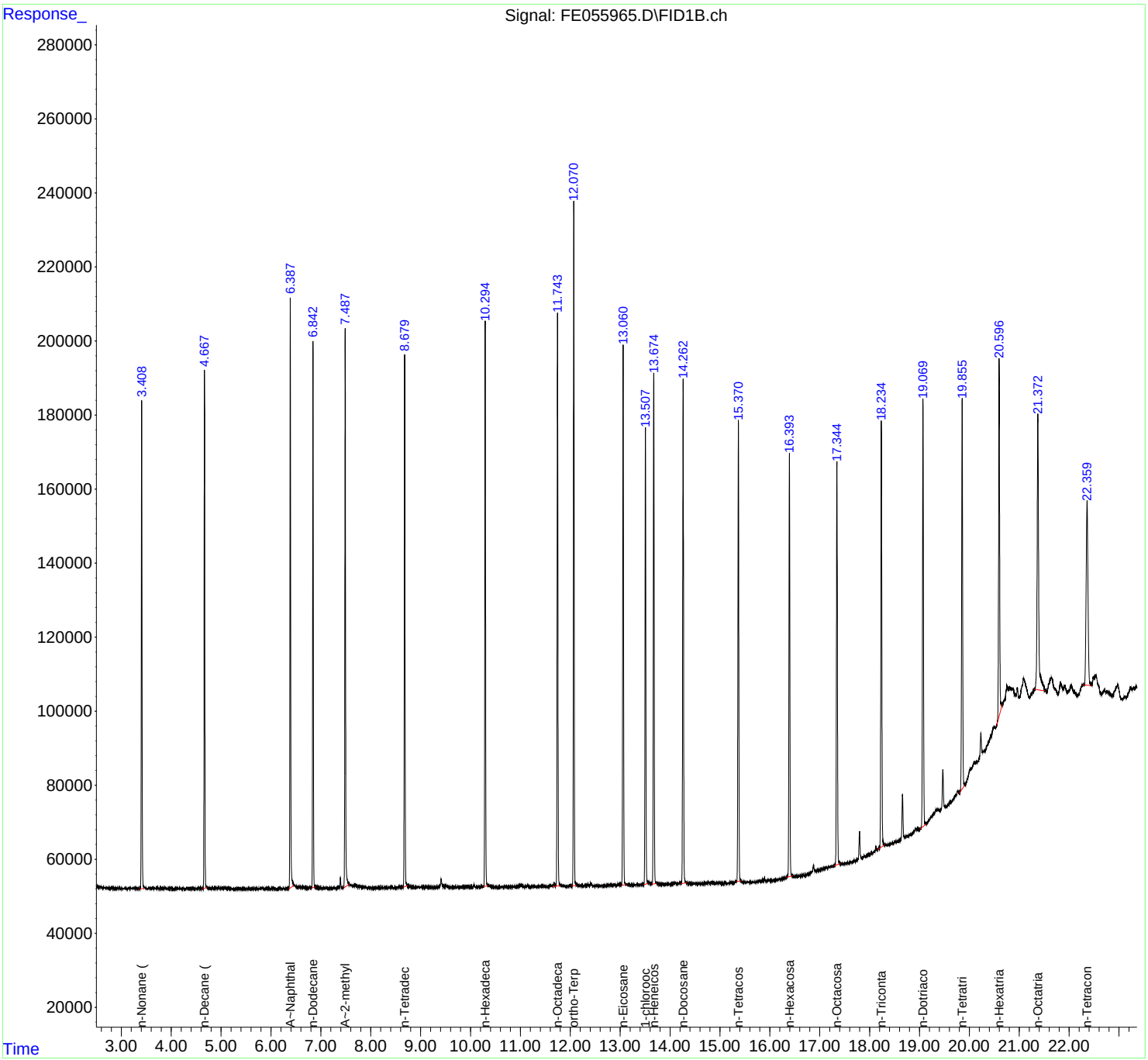
(f)=RT Delta > 1/2 Window (m)=manual int.

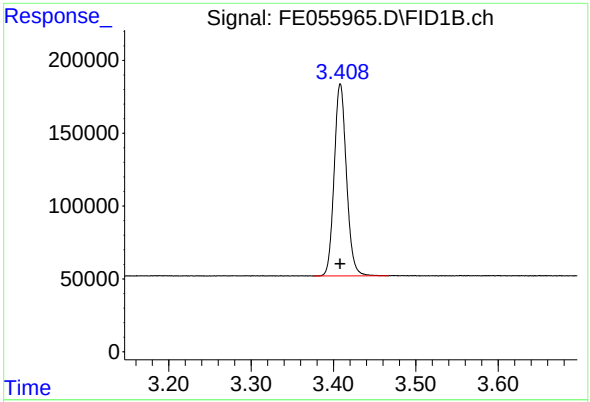
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055965.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 10:38
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 24 12:53:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:53:03 2025
Response via : Initial Calibration
Integrator: ChemStation

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

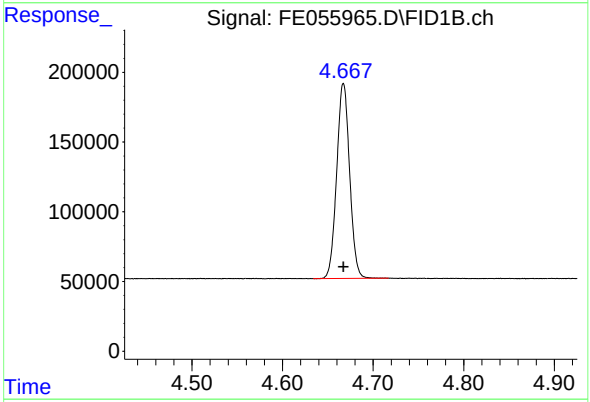




#1 n-Nonane (C9)

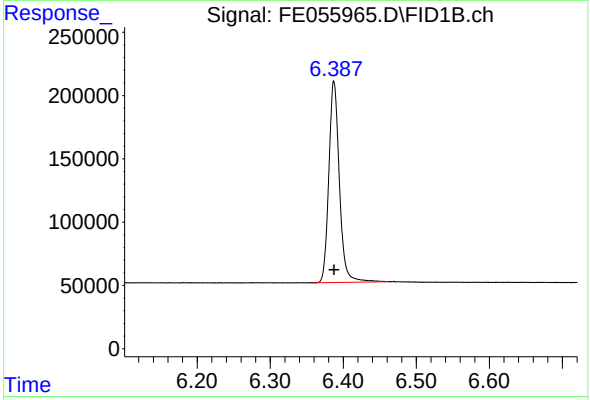
R.T.: 3.408 min
Delta R.T.: 0.000 min
Response: 1363863
Conc: 9.99 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



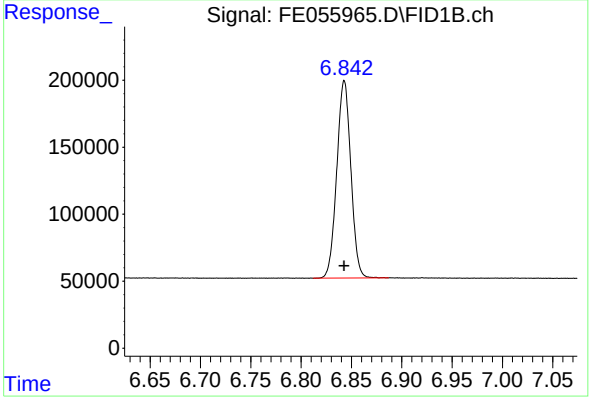
#2 n-Decane (C10)

R.T.: 4.667 min
Delta R.T.: 0.000 min
Response: 1391033
Conc: 10.00 ug/ml



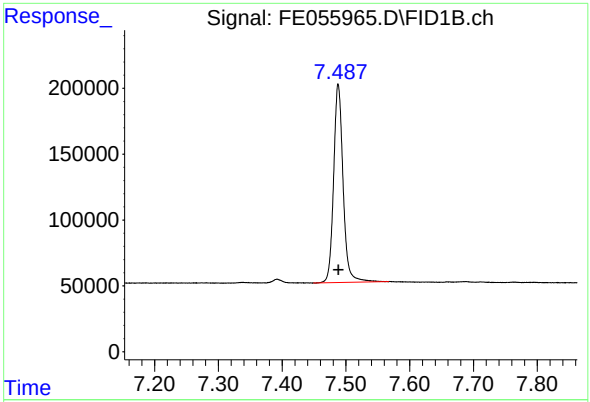
#3 A~Naphthalene (C11.7)

R.T.: 6.387 min
Delta R.T.: 0.000 min
Response: 1598546
Conc: 9.99 ug/ml



#4 n-Dodecane (C12)

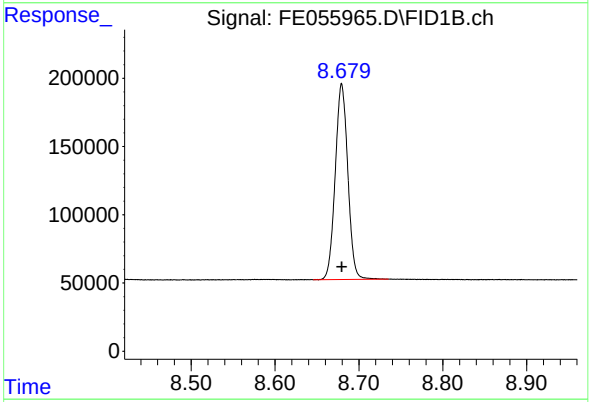
R.T.: 6.843 min
Delta R.T.: 0.000 min
Response: 1436113
Conc: 10.03 ug/ml



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

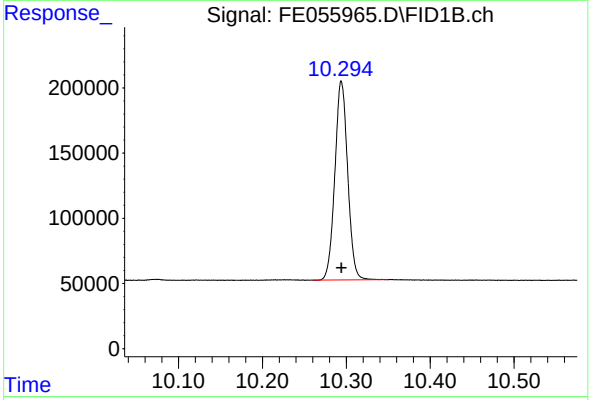
R.T.: 7.488 min
Delta R.T.: 0.000 min
Response: 1559116
Conc: 10.00 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



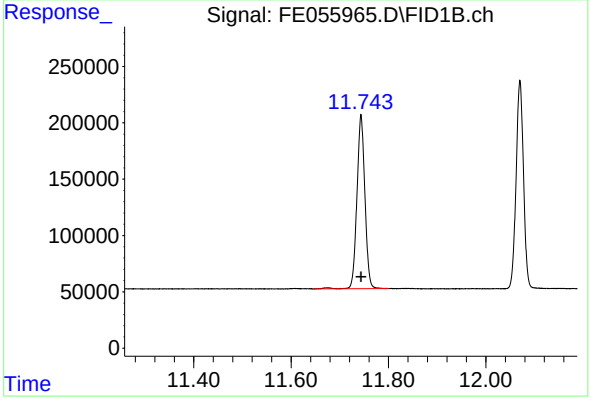
#6 n-Tetradecane (C14)

R.T.: 8.680 min
Delta R.T.: 0.000 min
Response: 1496128
Conc: 10.18 ug/ml



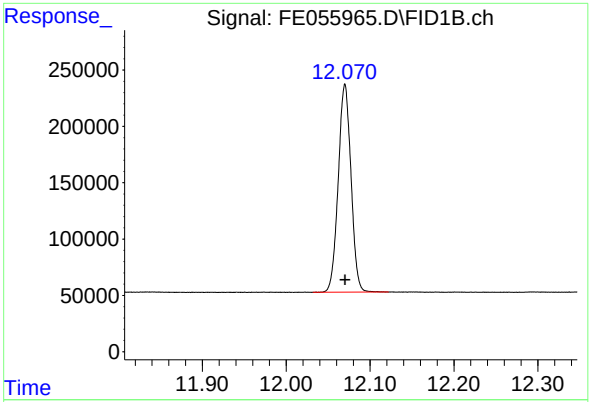
#7 n-Hexadecane (C16)

R.T.: 10.294 min
Delta R.T.: 0.000 min
Response: 1620157
Conc: 10.29 ug/ml



#8 n-Octadecane (C18)

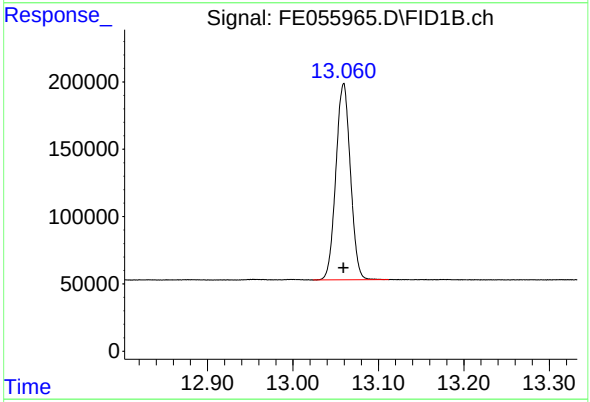
R.T.: 11.744 min
Delta R.T.: 0.000 min
Response: 1759004
Conc: 10.56 ug/ml



#9 ortho-Terphenyl (SURR)

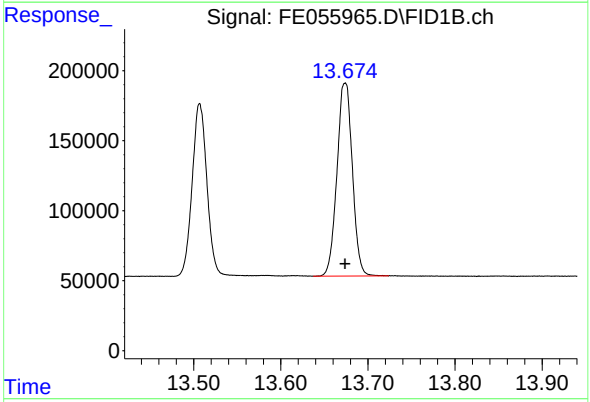
R.T.: 12.070 min
Delta R.T.: 0.000 min
Response: 1954951
Conc: 10.63 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



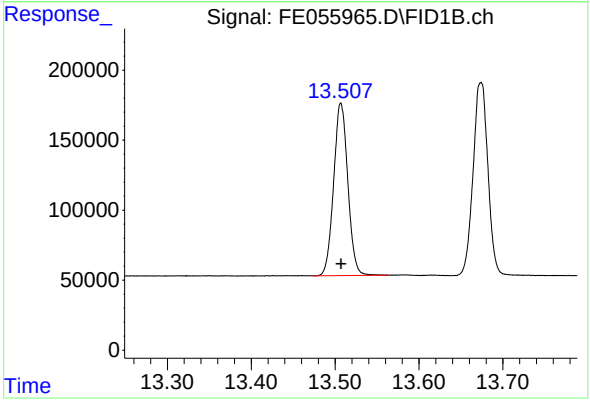
#10 n-Eicosane (C20)

R.T.: 13.059 min
Delta R.T.: 0.000 min
Response: 1725698
Conc: 10.62 ug/ml



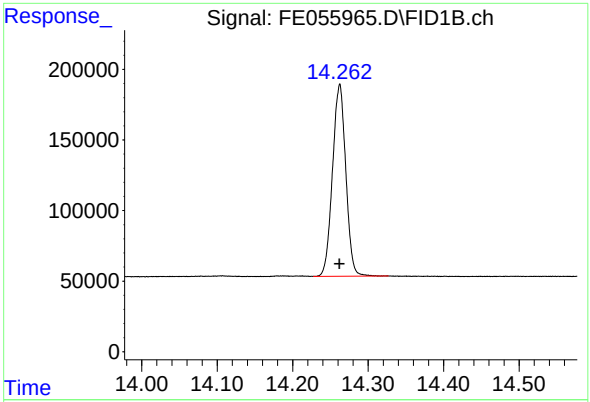
#11 n-Heneicosane (C21)

R.T.: 13.674 min
Delta R.T.: 0.000 min
Response: 1692180
Conc: 10.65 ug/ml



#12 1-chlorooctadecane (SURR)

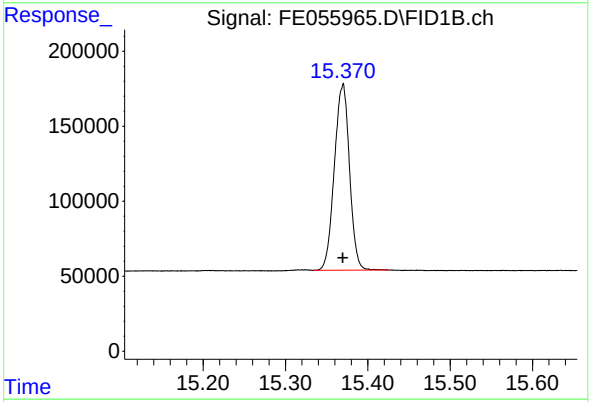
R.T.: 13.507 min
Delta R.T.: 0.000 min
Response: 1449608
Conc: 10.57 ug/ml



#13 n-Docosane (C22)

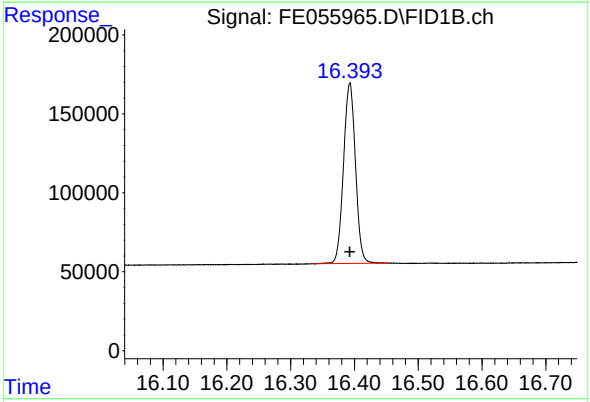
R.T.: 14.262 min
Delta R.T.: 0.000 min
Response: 1664317
Conc: 10.67 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



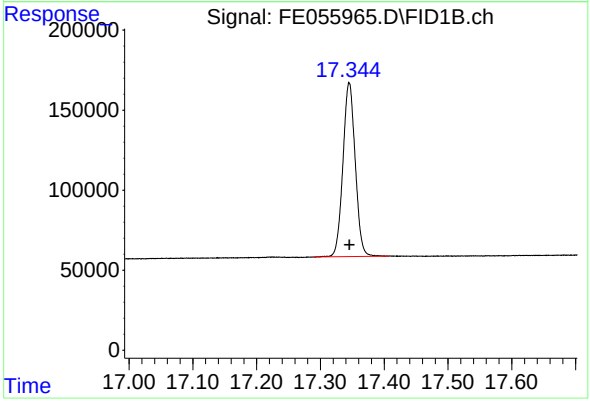
#14 n-Tetracosane (C24)

R.T.: 15.369 min
Delta R.T.: 0.000 min
Response: 1581785
Conc: 10.65 ug/ml



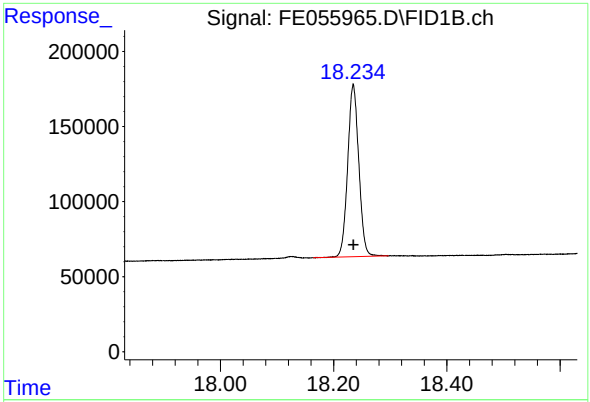
#15 n-Hexacosane (C26)

R.T.: 16.393 min
Delta R.T.: 0.000 min
Response: 1487319
Conc: 10.68 ug/ml



#16 n-Octacosane (C28)

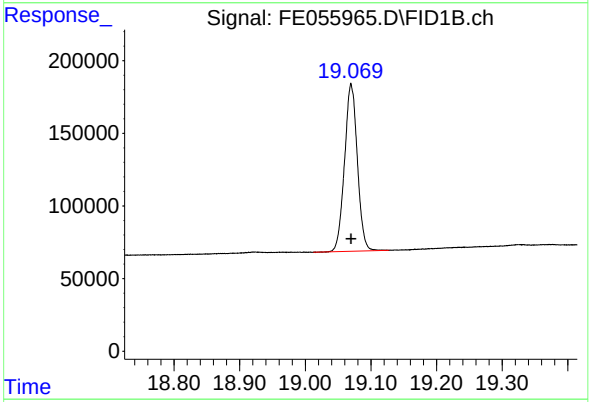
R.T.: 17.345 min
Delta R.T.: 0.000 min
Response: 1455613
Conc: 10.80 ug/ml



#17 n-Tricontane (C30)

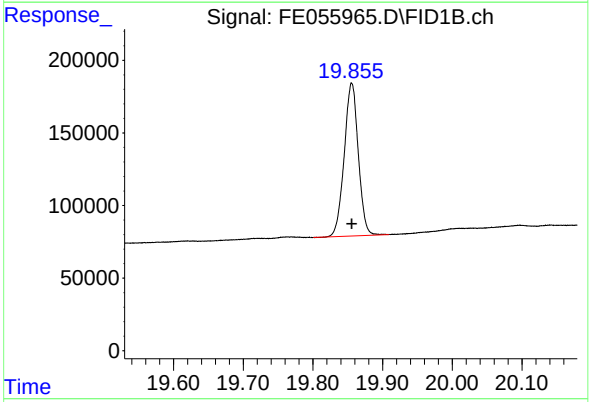
R.T.: 18.235 min
Delta R.T.: 0.000 min
Response: 1558692
Conc: 11.08 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



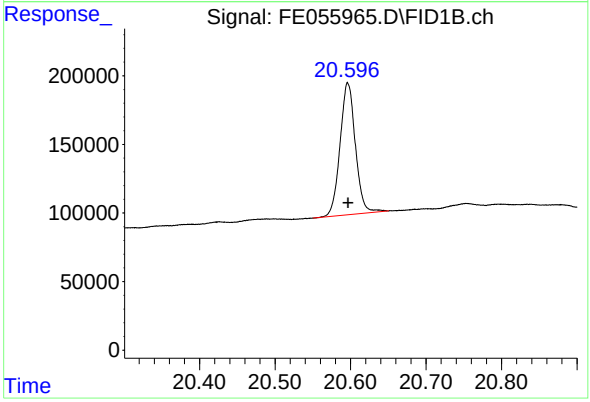
#18 n-Dotriacontane (C32)

R.T.: 19.070 min
Delta R.T.: 0.000 min
Response: 1561208
Conc: 11.07 ug/ml



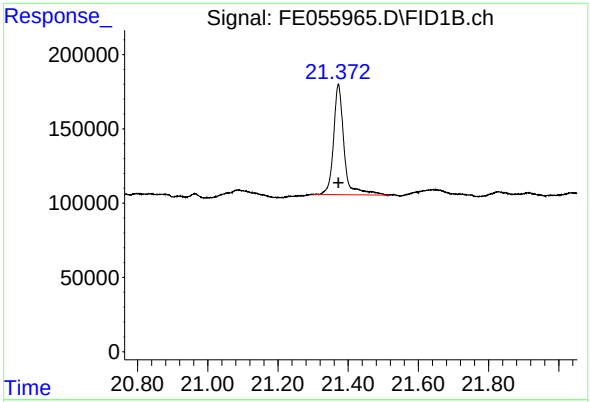
#19 n-Tetratriacontane (C34)

R.T.: 19.856 min
Delta R.T.: 0.000 min
Response: 1478766
Conc: 10.93 ug/ml



#20 n-Hexatriacontane (C36)

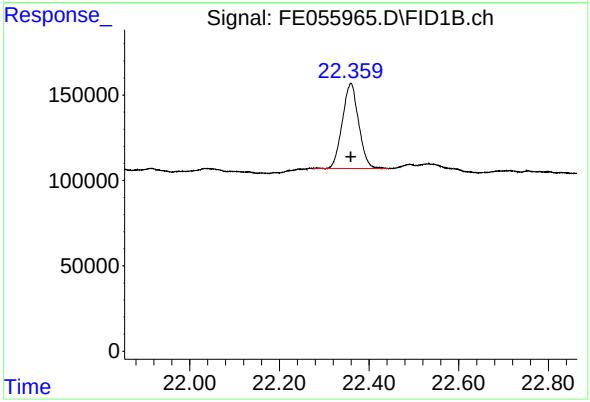
R.T.: 20.597 min
Delta R.T.: 0.000 min
Response: 1356484
Conc: 10.85 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.372 min
Delta R.T.: 0.000 min
Response: 1544566
Conc: 12.17 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.359 min
Delta R.T.: 0.000 min
Response: 1260670
Conc: 10.88 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055965.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 10:38
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.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	3.408	3.375	3.467	BB	131891	1363863	69.76%	4.012%
2	4.667	4.634	4.717	BB	140046	1391033	71.15%	4.092%
3	6.387	6.359	6.462	BB	159227	1598546	81.77%	4.702%
4	6.843	6.812	6.887	BB	147153	1436113	73.46%	4.224%
5	7.488	7.449	7.567	BB	149955	1559116	79.75%	4.586%
6	8.680	8.645	8.735	BB	142760	1496128	76.53%	4.401%
7	10.294	10.260	10.350	BB	152463	1620157	82.87%	4.766%
8	11.744	11.645	11.800	BB	154452	1759004	89.98%	5.174%
9	12.070	12.032	12.122	BB	185078	1954951	100.00%	5.751%
10	13.059	13.024	13.112	BB	145649	1725698	88.27%	5.076%
11	13.507	13.474	13.564	BB	123157	1449608	74.15%	4.264%
12	13.674	13.637	13.724	BB	137839	1692180	86.56%	4.978%
13	14.262	14.227	14.327	BB	136020	1664317	85.13%	4.896%
14	15.369	15.334	15.425	BB	122593	1581785	80.91%	4.653%
15	16.393	16.335	16.454	BB	114164	1487319	76.08%	4.375%
16	17.345	17.289	17.407	BB	108605	1455613	74.46%	4.282%
17	18.235	18.164	18.297	BB	114916	1558692	79.73%	4.585%
18	19.070	19.012	19.127	BB	114664	1561208	79.86%	4.592%
19	19.856	19.800	19.909	BB	105560	1478766	75.64%	4.350%
20	20.597	20.550	20.650	BB	95575	1356484	69.39%	3.990%
21	21.372	21.300	21.515	BB	74470	1544566	79.01%	4.543%
22	22.359	22.275	22.444	BB	49805	1260670	64.49%	3.708%
			Sum of corrected areas:			33995817		

Aliphatic EPH 092425.M Wed Sep 24 15:37:44 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055966.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 11:08
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 24 12:55:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:54:57 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	12.070	1013713	5.402 ug/ml
Spiked Amount	50.000		Recovery =	10.80%
12)	S 1-chlorooctadecane (S...	13.507	745262	5.340 ug/ml
Spiked Amount	50.000		Recovery =	10.68%
	Target Compounds			
1)	T n-Nonane (C9)	3.408	693246	5.060 ug/ml
2)	T n-Decane (C10)	4.667	706292	5.061 ug/ml
3)	T A~Naphthalene (C11.7)	6.388	790843	4.953 ug/ml
4)	T n-Dodecane (C12)	6.843	724977	5.051 ug/ml
5)	T A~2-methylnaphthalene...	7.489	768994	4.945 ug/ml
6)	T n-Tetradecane (C14)	8.679	757520	5.124 ug/ml
7)	T n-Hexadecane (C16)	10.294	823386	5.182 ug/ml
8)	T n-Octadecane (C18)	11.744	903131	5.332 ug/ml
10)	T n-Eicosane (C20)	13.059	895641	5.403 ug/ml
11)	T n-Heneicosane (C21)	13.673	885060	5.447 ug/ml
13)	T n-Docosane (C22)	14.262	874093	5.470 ug/ml
14)	T n-Tetracosane (C24)	15.369	839256	5.508 ug/ml
15)	T n-Hexacosane (C26)	16.393	781387	5.478 ug/ml
16)	T n-Octacosane (C28)	17.345	788239	5.658 ug/ml
17)	T n-Tricontane (C30)	18.235	889830	6.005 ug/ml
18)	T n-Dotriacontane (C32)	19.070	910224	6.101 ug/ml
19)	T n-Tetratriacontane (C34)	19.855	831525	5.879 ug/ml
20)	T n-Hexatriacontane (C36)	20.596	709931	5.530 ug/ml
21)	T n-Octatriacontane (C38)	21.372	745994	5.680 ug/ml
22)	T n-Tetracontane (C40)	22.356	657258	5.525 ug/ml

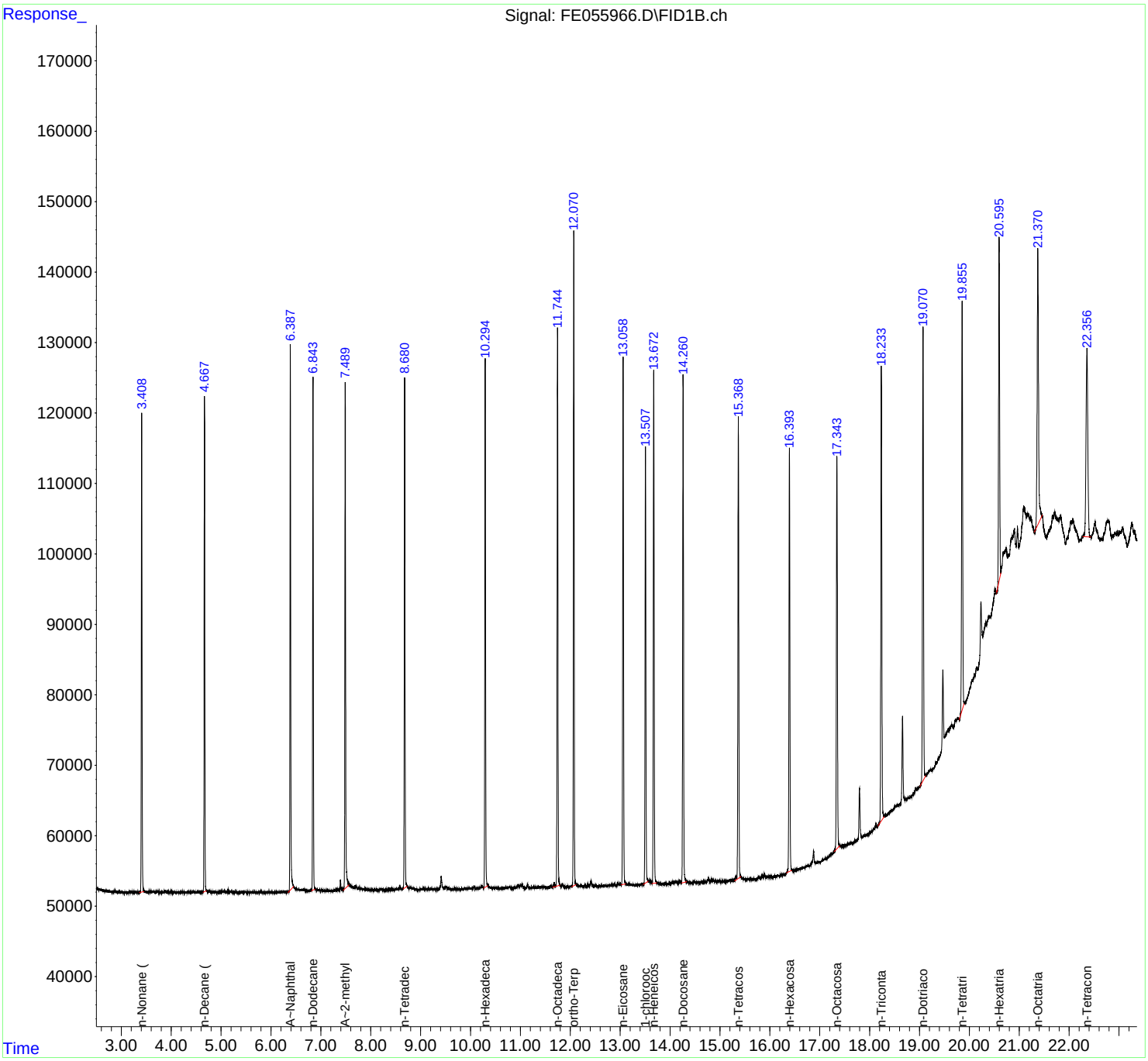
(f)=RT Delta > 1/2 Window (m)=manual int.

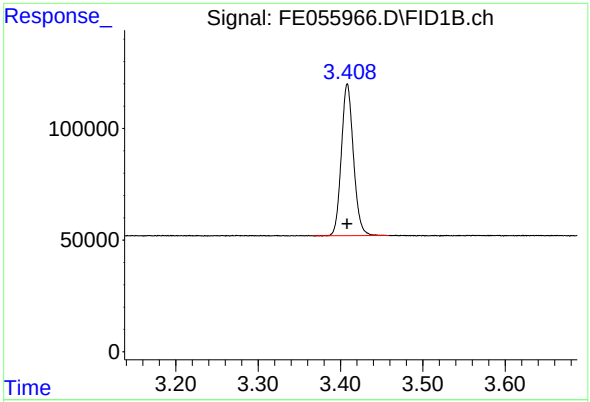
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055966.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 11:08
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 24 12:55:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:54:57 2025
Response via : Initial Calibration
Integrator: ChemStation

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

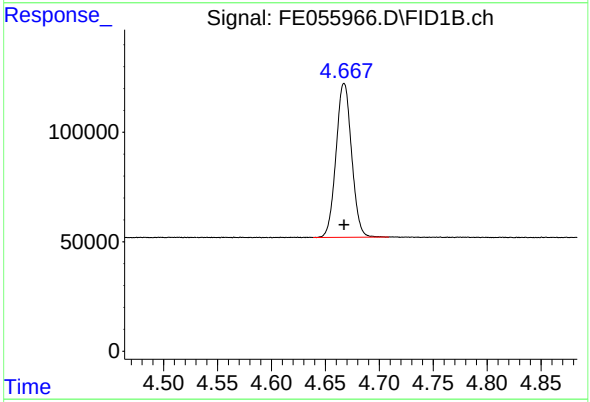




#1 n-Nonane (C9)

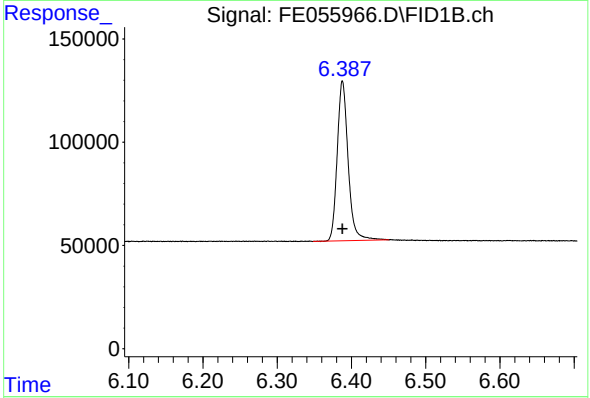
R.T.: 3.408 min
Delta R.T.: 0.000 min
Response: 693246
Conc: 5.06 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



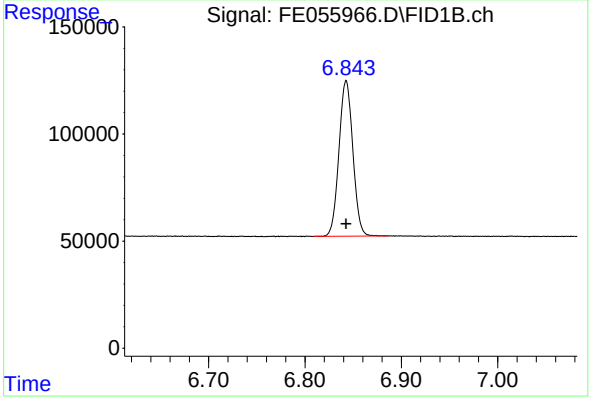
#2 n-Decane (C10)

R.T.: 4.667 min
Delta R.T.: 0.000 min
Response: 706292
Conc: 5.06 ug/ml



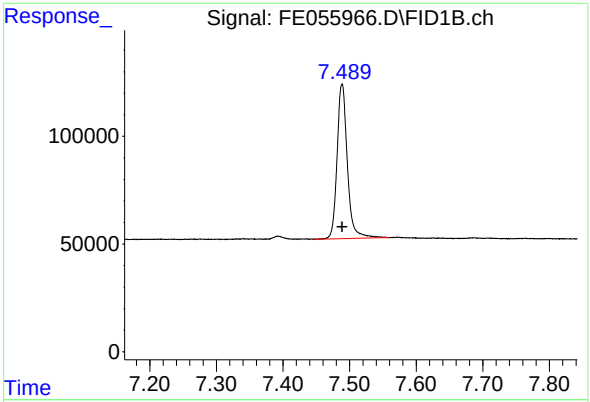
#3 A~Naphthalene (C11.7)

R.T.: 6.388 min
Delta R.T.: 0.000 min
Response: 790843
Conc: 4.95 ug/ml



#4 n-Dodecane (C12)

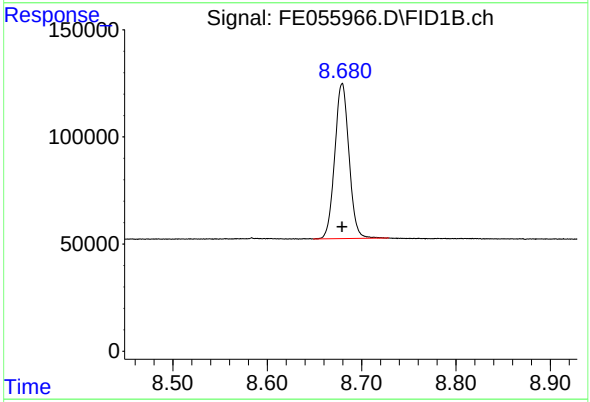
R.T.: 6.843 min
Delta R.T.: 0.000 min
Response: 724977
Conc: 5.05 ug/ml



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

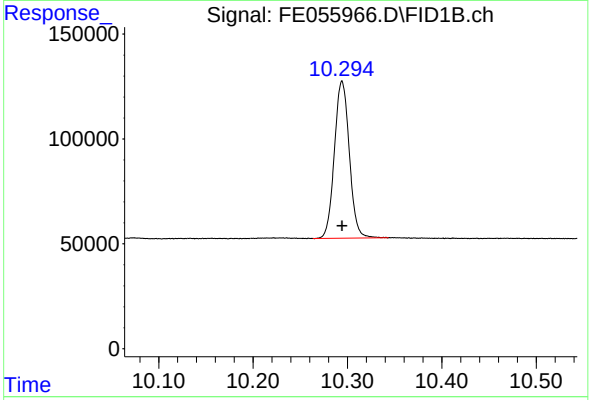
R.T.: 7.489 min
Delta R.T.: 0.000 min
Response: 768994
Conc: 4.94 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



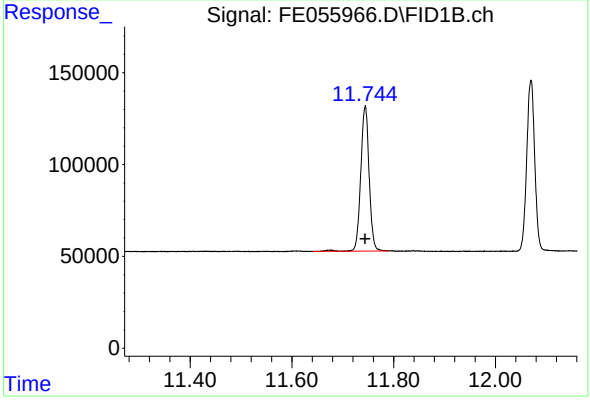
#6 n-Tetradecane (C14)

R.T.: 8.679 min
Delta R.T.: 0.000 min
Response: 757520
Conc: 5.12 ug/ml



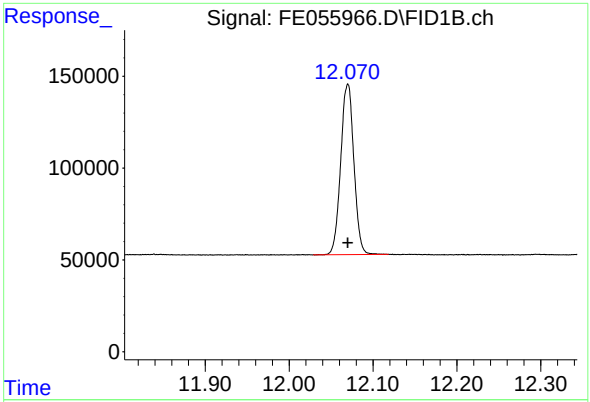
#7 n-Hexadecane (C16)

R.T.: 10.294 min
Delta R.T.: 0.000 min
Response: 823386
Conc: 5.18 ug/ml



#8 n-Octadecane (C18)

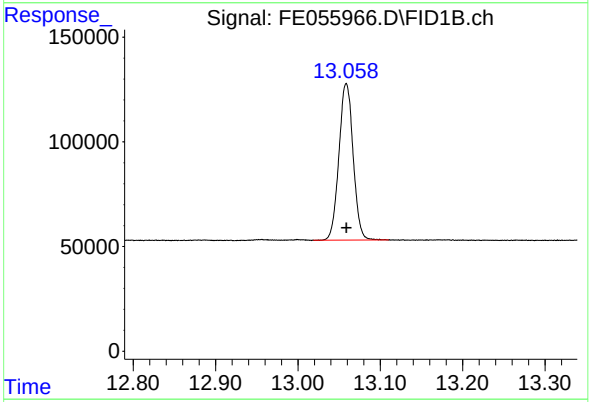
R.T.: 11.744 min
Delta R.T.: 0.000 min
Response: 903131
Conc: 5.33 ug/ml



#9 ortho-Terphenyl (SURR)

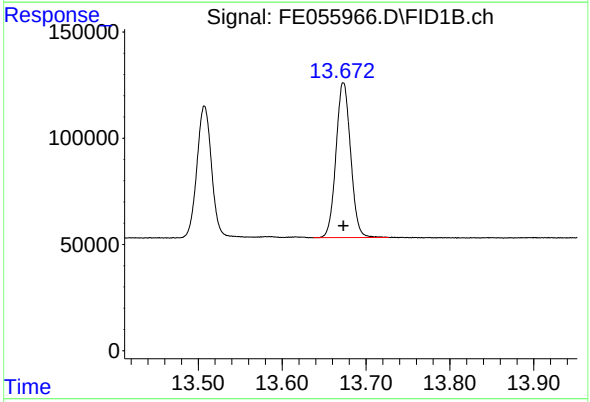
R.T.: 12.070 min
Delta R.T.: 0.000 min
Response: 1013713
Conc: 5.40 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



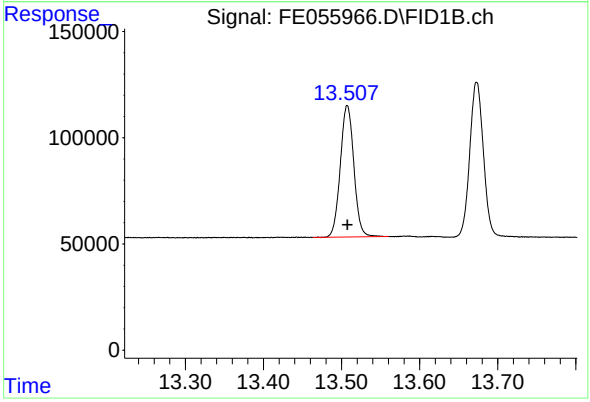
#10 n-Eicosane (C20)

R.T.: 13.059 min
Delta R.T.: 0.000 min
Response: 895641
Conc: 5.40 ug/ml



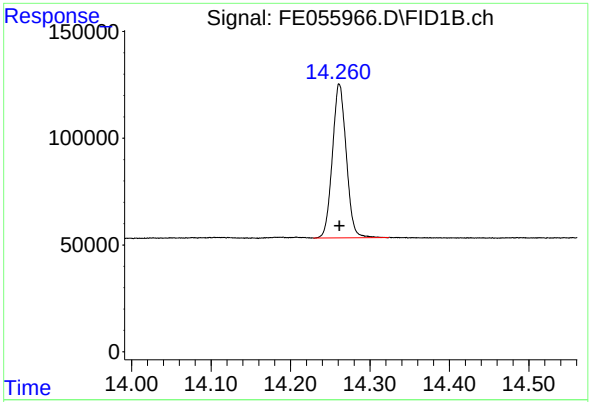
#11 n-Heneicosane (C21)

R.T.: 13.673 min
Delta R.T.: 0.000 min
Response: 885060
Conc: 5.45 ug/ml



#12 1-chlorooctadecane (SURR)

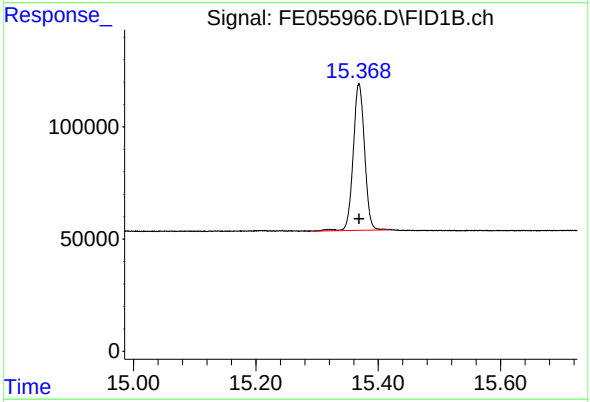
R.T.: 13.507 min
Delta R.T.: 0.000 min
Response: 745262
Conc: 5.34 ug/ml



#13 n-Docosane (C22)

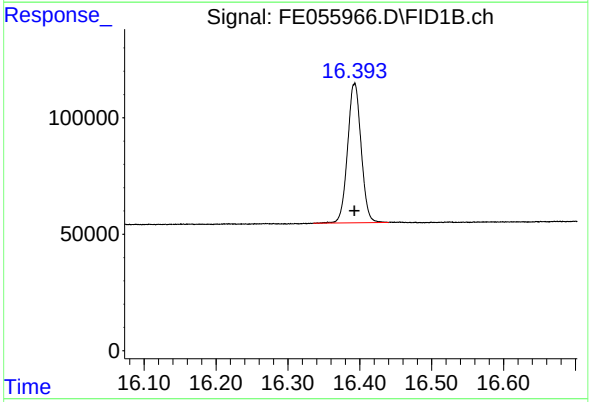
R.T.: 14.262 min
Delta R.T.: 0.000 min
Response: 874093
Conc: 5.47 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



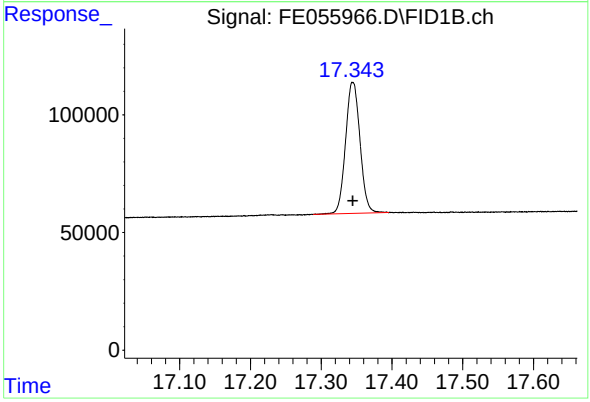
#14 n-Tetracosane (C24)

R.T.: 15.369 min
Delta R.T.: 0.000 min
Response: 839256
Conc: 5.51 ug/ml



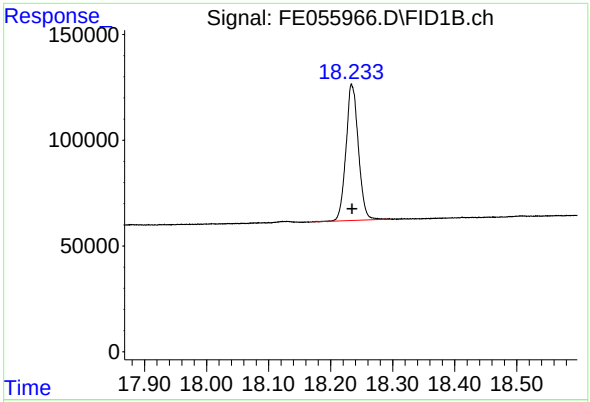
#15 n-Hexacosane (C26)

R.T.: 16.393 min
Delta R.T.: 0.000 min
Response: 781387
Conc: 5.48 ug/ml



#16 n-Octacosane (C28)

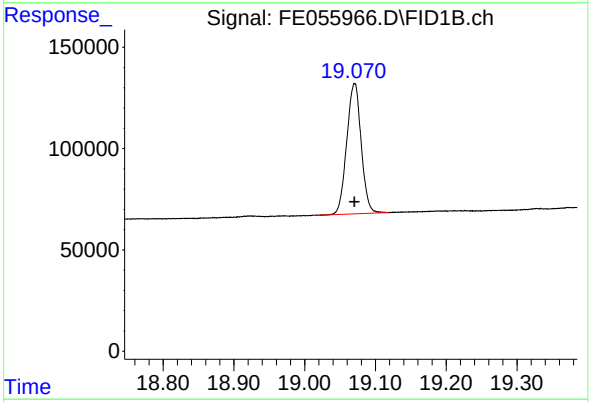
R.T.: 17.345 min
Delta R.T.: 0.000 min
Response: 788239
Conc: 5.66 ug/ml



#17 n-Tricontane (C30)

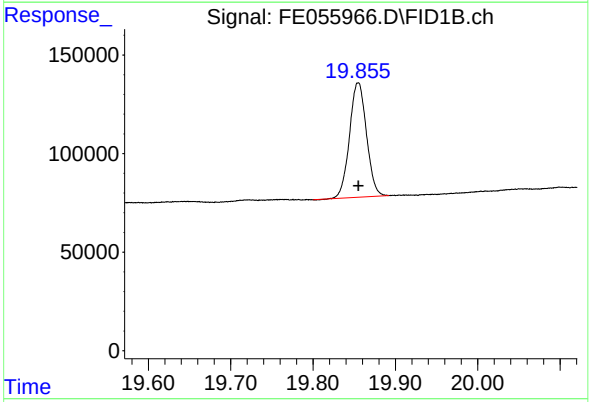
R.T.: 18.235 min
Delta R.T.: 0.000 min
Response: 889830
Conc: 6.01 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



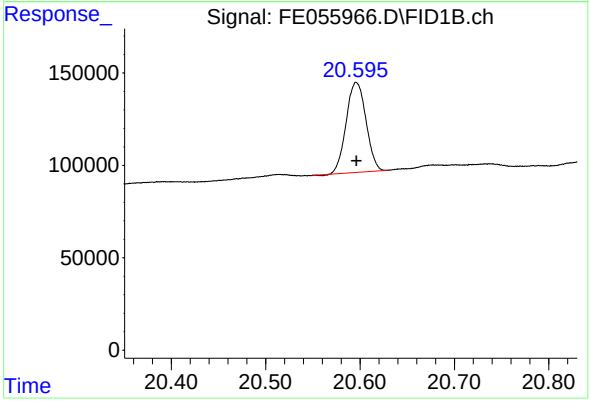
#18 n-Dotriacontane (C32)

R.T.: 19.070 min
Delta R.T.: 0.000 min
Response: 910224
Conc: 6.10 ug/ml



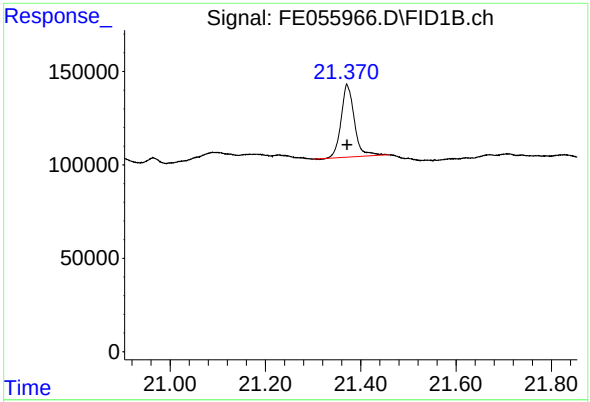
#19 n-Tetratriacontane (C34)

R.T.: 19.855 min
Delta R.T.: 0.000 min
Response: 831525
Conc: 5.88 ug/ml



#20 n-Hexatriacontane (C36)

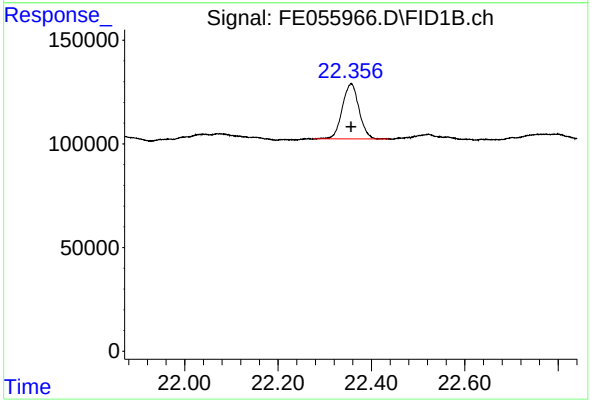
R.T.: 20.596 min
Delta R.T.: 0.000 min
Response: 709931
Conc: 5.53 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.372 min
Delta R.T.: 0.000 min
Response: 745994
Conc: 5.68 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.356 min
Delta R.T.: 0.000 min
Response: 657258
Conc: 5.52 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055966.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 11:08
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.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	3.408	3.367	3.459	BB	67953	693246	68.39%	3.909%
2	4.667	4.639	4.709	BB	70375	706292	69.67%	3.982%
3	6.388	6.349	6.450	BB	77149	790843	78.01%	4.459%
4	6.843	6.809	6.887	BB	72831	724977	71.52%	4.088%
5	7.489	7.445	7.559	BB	71709	768994	75.86%	4.336%
6	8.679	8.649	8.729	BB	72794	757520	74.73%	4.271%
7	10.294	10.264	10.344	BB	74847	823386	81.22%	4.643%
8	11.744	11.642	11.790	BB	78656	903131	89.09%	5.092%
9	12.070	12.029	12.119	BB	93200	1013713	100.00%	5.716%
10	13.059	13.019	13.110	BB	74727	895641	88.35%	5.050%
11	13.507	13.464	13.560	BB	62028	745262	73.52%	4.202%
12	13.673	13.637	13.727	BB	72909	885060	87.31%	4.990%
13	14.262	14.229	14.324	BB	71830	874093	86.23%	4.928%
14	15.369	15.294	15.417	BB	65352	839256	82.79%	4.732%
15	16.393	16.335	16.440	BB	60152	781387	77.08%	4.406%
16	17.345	17.289	17.395	BB	55612	788239	77.76%	4.444%
17	18.235	18.172	18.294	BB	63264	889830	87.78%	5.017%
18	19.070	19.012	19.119	BB	64493	910224	89.79%	5.132%
19	19.855	19.800	19.892	BB	58084	831525	82.03%	4.688%
20	20.596	20.550	20.630	BV	48579	709931	70.03%	4.003%
21	21.372	21.300	21.459	BB	38611	745994	73.59%	4.206%
22	22.356	22.275	22.437	BB	26685	657258	64.84%	3.706%
			Sum of corrected areas:			17735802		

Aliphatic EPH 092425.M Wed Sep 24 15:38:07 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055967.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 11:39
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 24 12:56:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	12.071	3668282	19.548 ug/ml
	Spiked Amount 50.000		Recovery = 39.10%	
12)	S 1-chlorooctadecane (S...	13.508	2728050	19.547 ug/ml
	Spiked Amount 50.000		Recovery = 39.09%	
	Target Compounds			
1)	T n-Nonane (C9)	3.411	2817872	20.570 ug/ml
2)	T n-Decane (C10)	4.668	2859346	20.488 ug/ml
3)	T A~Naphthalene (C11.7)	6.388	3249421	20.352 ug/ml
4)	T n-Dodecane (C12)	6.843	2929821	20.413 ug/ml
5)	T A~2-methylnaphthalene...	7.488	3143650	20.214 ug/ml
6)	T n-Tetradecane (C14)	8.680	2980588	20.160 ug/ml
7)	T n-Hexadecane (C16)	10.295	3166204	19.925 ug/ml
8)	T n-Octadecane (C18)	11.745	3336057	19.695 ug/ml
10)	T n-Eicosane (C20)	13.060	3245046	19.576 ug/ml
11)	T n-Heneicosane (C21)	13.674	3169164	19.504 ug/ml
13)	T n-Docosane (C22)	14.262	3099587	19.398 ug/ml
14)	T n-Tetracosane (C24)	15.369	2928176	19.216 ug/ml
15)	T n-Hexacosane (C26)	16.393	2744599	19.243 ug/ml
16)	T n-Octacosane (C28)	17.346	2675215	19.204 ug/ml
17)	T n-Tricontane (C30)	18.236	2835374	19.135 ug/ml
18)	T n-Dotriacontane (C32)	19.070	2865562	19.206 ug/ml
19)	T n-Tetratriacontane (C34)	19.855	2719117	19.223 ug/ml
20)	T n-Hexatriacontane (C36)	20.597	2416072	18.821 ug/ml
21)	T n-Octatriacontane (C38)	21.374	2366982	18.021 ug/ml
22)	T n-Tetracontane (C40)	22.357	2042298	17.167 ug/ml

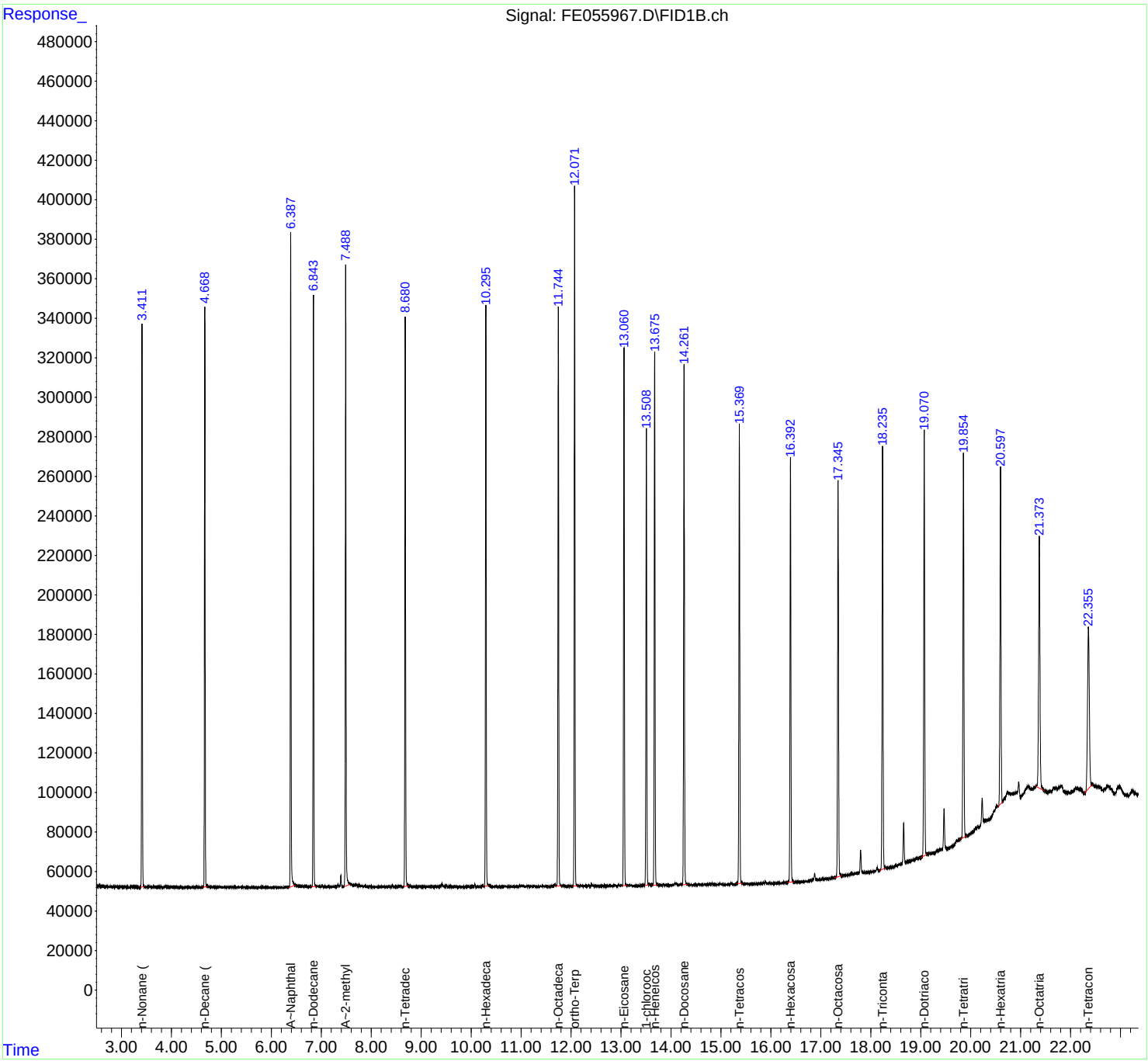
(f)=RT Delta > 1/2 Window (m)=manual int.

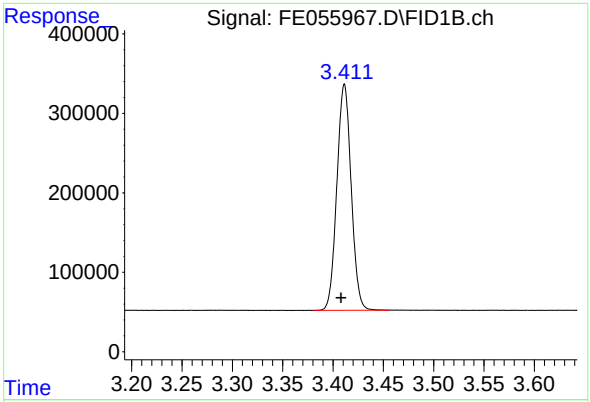
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055967.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 11:39
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 24 12:56:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

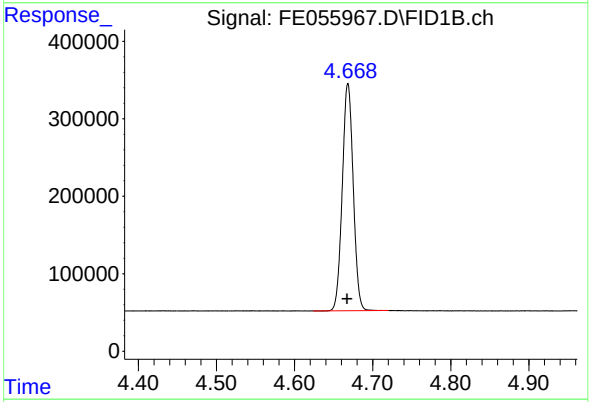




#1 n-Nonane (C9)

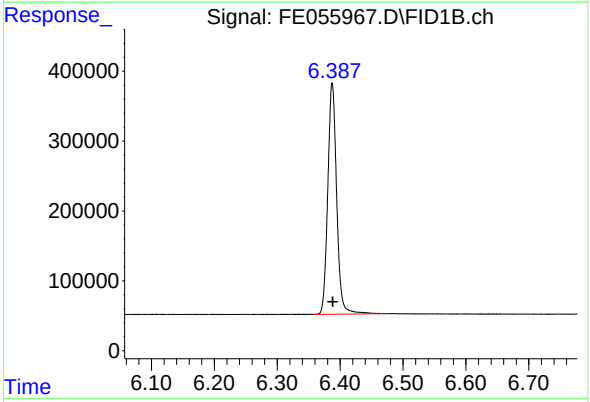
R.T.: 3.411 min
Delta R.T.: 0.003 min
Response: 2817872
Conc: 20.57 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



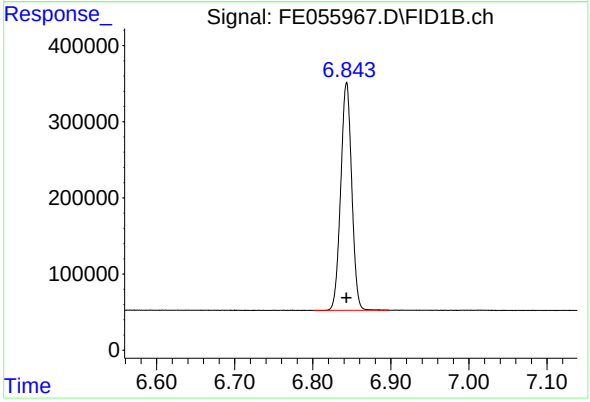
#2 n-Decane (C10)

R.T.: 4.668 min
Delta R.T.: 0.001 min
Response: 2859346
Conc: 20.49 ug/ml



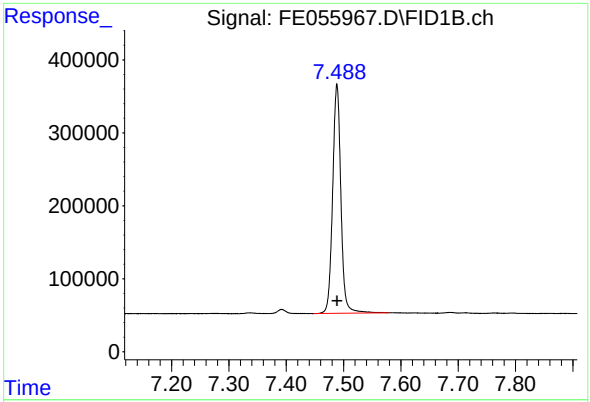
#3 A~Naphthalene (C11.7)

R.T.: 6.388 min
Delta R.T.: 0.000 min
Response: 3249421
Conc: 20.35 ug/ml



#4 n-Dodecane (C12)

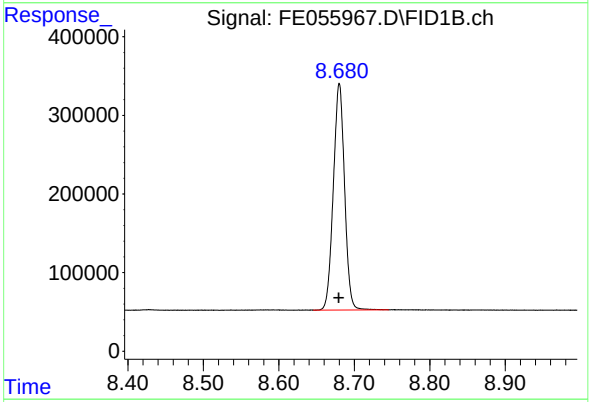
R.T.: 6.843 min
Delta R.T.: 0.000 min
Response: 2929821
Conc: 20.41 ug/ml



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

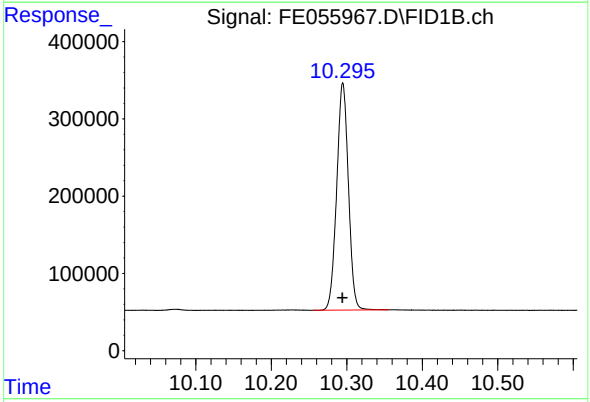
R.T.: 7.488 min
Delta R.T.: 0.000 min
Response: 3143650
Conc: 20.21 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



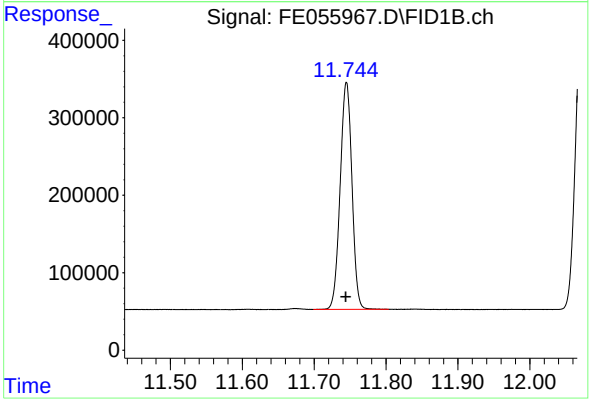
#6 n-Tetradecane (C14)

R.T.: 8.680 min
Delta R.T.: 0.000 min
Response: 2980588
Conc: 20.16 ug/ml



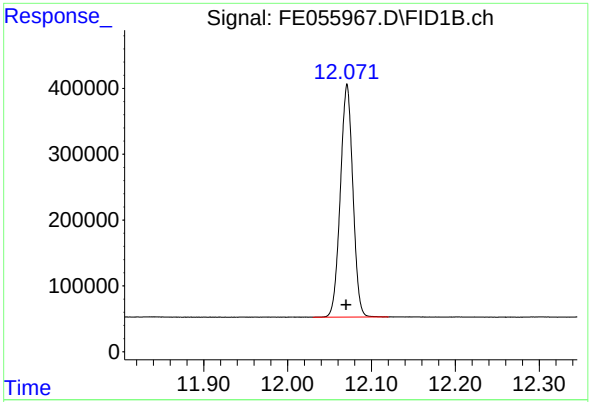
#7 n-Hexadecane (C16)

R.T.: 10.295 min
Delta R.T.: 0.000 min
Response: 3166204
Conc: 19.92 ug/ml



#8 n-Octadecane (C18)

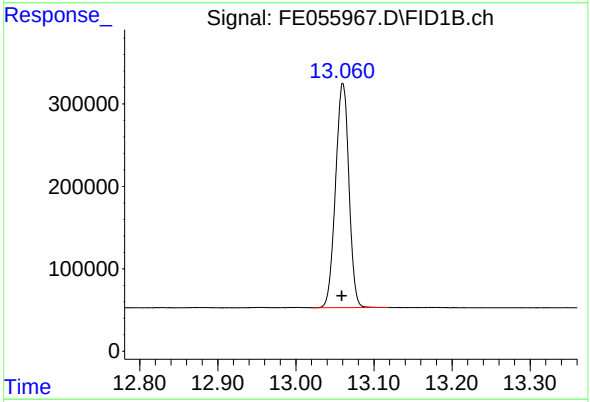
R.T.: 11.745 min
Delta R.T.: 0.000 min
Response: 3336057
Conc: 19.70 ug/ml



#9 ortho-Terphenyl (SURR)

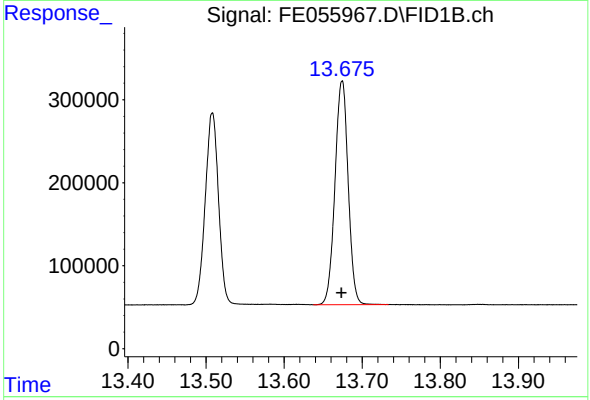
R.T.: 12.071 min
Delta R.T.: 0.001 min
Response: 3668282
Conc: 19.55 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



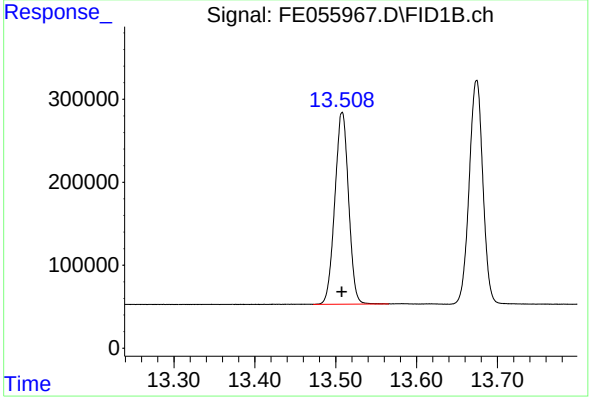
#10 n-Eicosane (C20)

R.T.: 13.060 min
Delta R.T.: 0.001 min
Response: 3245046
Conc: 19.58 ug/ml



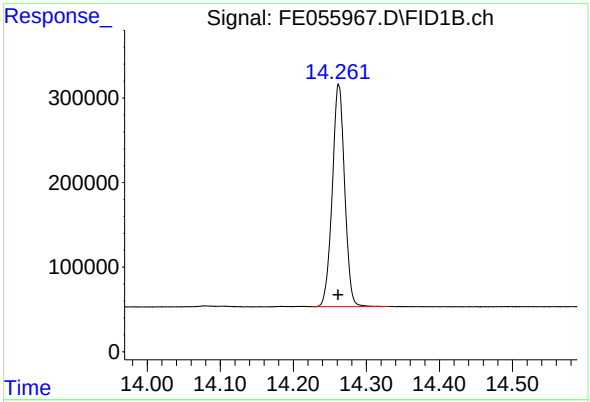
#11 n-Heneicosane (C21)

R.T.: 13.674 min
Delta R.T.: 0.000 min
Response: 3169164
Conc: 19.50 ug/ml



#12 1-chlorooctadecane (SURR)

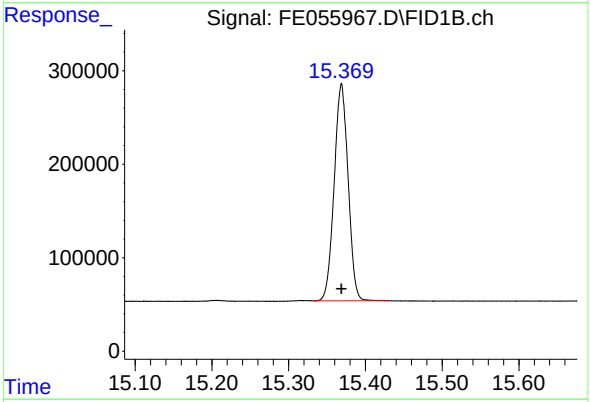
R.T.: 13.508 min
Delta R.T.: 0.000 min
Response: 2728050
Conc: 19.55 ug/ml



#13 n-Docosane (C22)

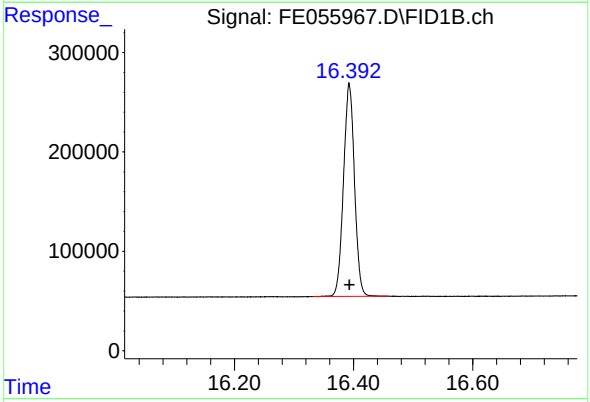
R.T.: 14.262 min
Delta R.T.: 0.000 min
Response: 3099587
Conc: 19.40 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



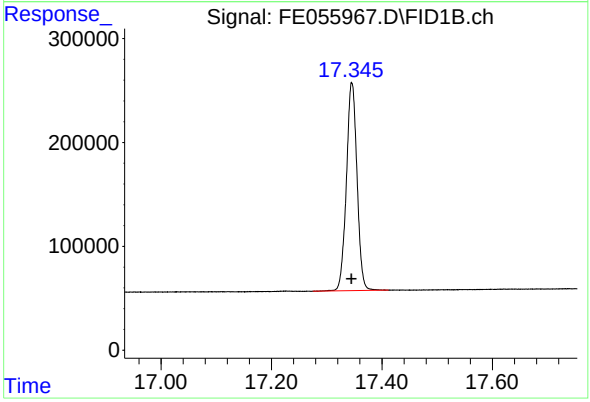
#14 n-Tetracosane (C24)

R.T.: 15.369 min
Delta R.T.: 0.000 min
Response: 2928176
Conc: 19.22 ug/ml



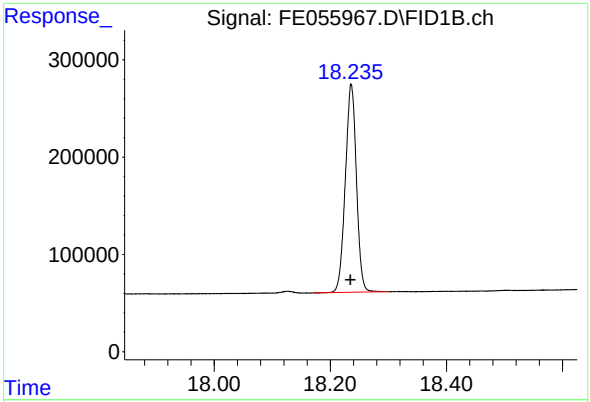
#15 n-Hexacosane (C26)

R.T.: 16.393 min
Delta R.T.: 0.000 min
Response: 2744599
Conc: 19.24 ug/ml



#16 n-Octacosane (C28)

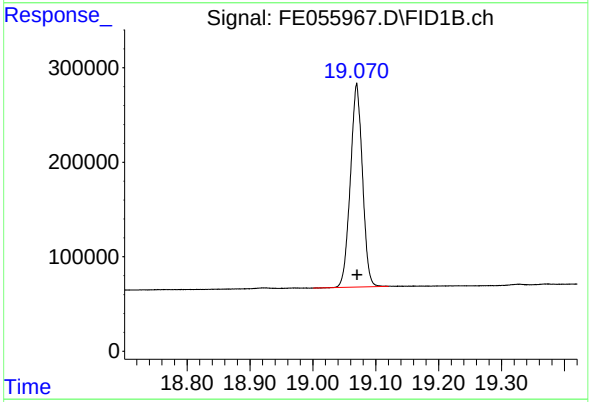
R.T.: 17.346 min
Delta R.T.: 0.000 min
Response: 2675215
Conc: 19.20 ug/ml



#17 n-Tricontane (C30)

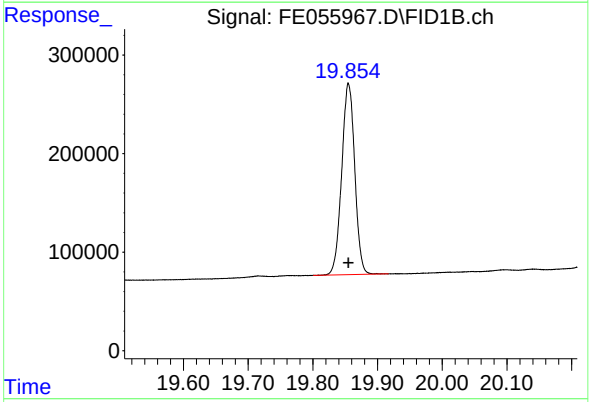
R.T.: 18.236 min
Delta R.T.: 0.002 min
Response: 2835374
Conc: 19.13 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



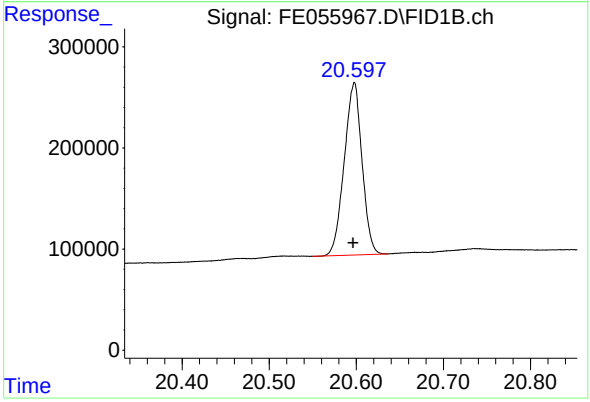
#18 n-Dotriacontane (C32)

R.T.: 19.070 min
Delta R.T.: 0.000 min
Response: 2865562
Conc: 19.21 ug/ml



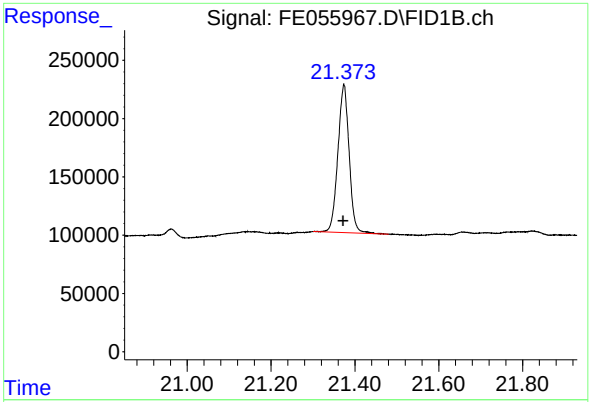
#19 n-Tetratriacontane (C34)

R.T.: 19.855 min
Delta R.T.: 0.000 min
Response: 2719117
Conc: 19.22 ug/ml



#20 n-Hexatriacontane (C36)

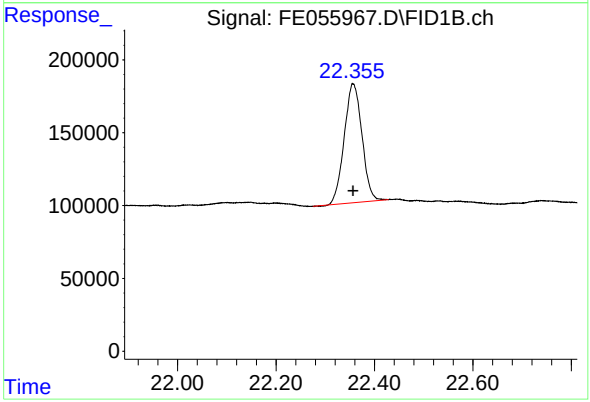
R.T.: 20.597 min
Delta R.T.: 0.001 min
Response: 2416072
Conc: 18.82 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.374 min
Delta R.T.: 0.002 min
Response: 2366982
Conc: 18.02 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.357 min
Delta R.T.: 0.000 min
Response: 2042298
Conc: 17.17 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055967.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 11:39
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.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	3.411	3.380	3.455	BB	285220	2817872	76.82%	4.404%
2	4.668	4.624	4.720	BB	293455	2859346	77.95%	4.469%
3	6.388	6.357	6.477	BB	331697	3249421	88.58%	5.078%
4	6.843	6.800	6.897	BB	299925	2929821	79.87%	4.579%
5	7.488	7.447	7.579	BB	314271	3143650	85.70%	4.913%
6	8.680	8.645	8.745	BB	288401	2980588	81.25%	4.658%
7	10.295	10.255	10.355	BB	293683	3166204	86.31%	4.948%
8	11.745	11.699	11.804	BB	293541	3336057	90.94%	5.214%
9	12.071	12.030	12.120	BB	352970	3668282	100.00%	5.733%
10	13.060	13.022	13.119	BB	272237	3245046	88.46%	5.071%
11	13.508	13.472	13.565	BB	231703	2728050	74.37%	4.263%
12	13.674	13.637	13.734	BB	270029	3169164	86.39%	4.953%
13	14.262	14.227	14.330	BB	262720	3099587	84.50%	4.844%
14	15.369	15.332	15.430	BB	232304	2928176	79.82%	4.576%
15	16.393	16.332	16.459	BB	214476	2744599	74.82%	4.289%
16	17.346	17.275	17.412	BB	200293	2675215	72.93%	4.181%
17	18.236	18.170	18.300	BB	214339	2835374	77.29%	4.431%
18	19.070	19.000	19.120	BB	215278	2865562	78.12%	4.478%
19	19.855	19.800	19.917	BB	193722	2719117	74.13%	4.250%
20	20.597	20.550	20.637	BV	169926	2416072	65.86%	3.776%
21	21.374	21.300	21.480	BB	127571	2366982	64.53%	3.699%
22	22.357	22.275	22.429	BB	81304	2042298	55.67%	3.192%
			Sum of corrected areas:			63986485		

Aliphatic EPH 092425.M Wed Sep 24 15:38:29 2025

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

Inital Calibration Report for SequenceID : FF092425AR

AreaCount

Parameter Range	FF016431.D	FF016432.D	FF016433.D	FF016434.D	FF016435.D	
Aromatic C10-C12	26571922.000	12782593.000	5812094.000	3378672.000	1416900.000	
Aromatic C12-C16	40903703.000	19727791.000	8893990.000	5140294.000	2077321.000	
Aromatic C16-C21	52642385.000	25632968.000	11754819.000	6912075.000	2827142.000	
Aromatic C21-C36	104382932.000	51250874.000	23922689.000	14310932.000	5957294.000	
Aromatic EPH	224500942.000	109394226.000	50383592.000	29741973.000	12278657.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	143322.298	11.099				
Aromatic C12-C16	145185.7299994	10.908				
Aromatic C16-C21	144173.003	12.258				
Aromatic C21-C36	130834.0722218	13.823				
Aromatic EPH	137577.8026664	12.558				

Concentration

Parameter Range	FF016431.D	FF016432.D	FF016433.D	FF016434.D	FF016435.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	FF016431.D	FF016432.D	FF016433.D	FF016434.D	FF016435.D	
Aromatic C10-C12	132859.610000	127825.930000	145302.350000	168933.600000	141690.000000	
Aromatic C12-C16	136345.676666	131518.606666	148233.166666	171343.133333	138488.066666	
Aromatic C16-C21	131605.962500	128164.840000	146935.237500	172801.875000	141357.100000	
Aromatic C21-C36	115981.035555	113890.831111	132903.827777	159010.355555	132384.311111	
Aromatic EPH	124722.745555	121549.140000	139954.422222	165233.183333	136429.522222	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016431.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 13:59
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Sep 24 15:18:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:16:11 2025
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...	8.039	11754305	95.774 ug/ml
Spiked Amount	50.000		Recovery =	191.55%
6) S	2-Flurobiphenyl (SURR)	8.917	8058977	96.138 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	192.28%#
11) S	ortho-Terphenyl (SURR)	11.986	13753707	94.360 ug/ml
Spiked Amount	50.000		Recovery =	188.72%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.630	12963406	95.293 ug/ml
2) T	Naphthalene (C11.7)	6.309	13608516	95.751 ug/ml
3) T	2-Methylnaphthalene (...	7.411	13820236	95.722 ug/ml
5) T	Acenaphthylene (C15.06)	8.719	13570625	95.611 ug/ml
7) T	Acenaphthene (C15.5)	9.020	13512842	96.140 ug/ml
8) T	Flouorene (C16.55)	9.810	13450975	94.941 ug/ml
9) T	Phenanthrene (C19.36)	11.220	13438313	94.914 ug/ml
10) T	Anthracene (C19.43)	11.297	12723925	93.585 ug/ml
12) T	Fluoranthene (C21.85)	13.047	13192658	94.131 ug/ml
13) T	Pyrene (C20.8)	13.348	13029172	94.511 ug/ml
14) T	Benzo[a]anthracene (C...	15.231	12303315	93.967 ug/ml
15) T	Chrysene (C27.41)	15.280	12463435	93.088 ug/ml
16) T	benzo[b]fluoranthene ...	16.796	11802907	93.353 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.835	10991506	92.578 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.181	11301951	93.024 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.558	10849044	96.965 ug/ml
20) T	Dibenz[a,h]anthracene...	18.597	10510879	89.285 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.822	10967237	93.492 ug/ml

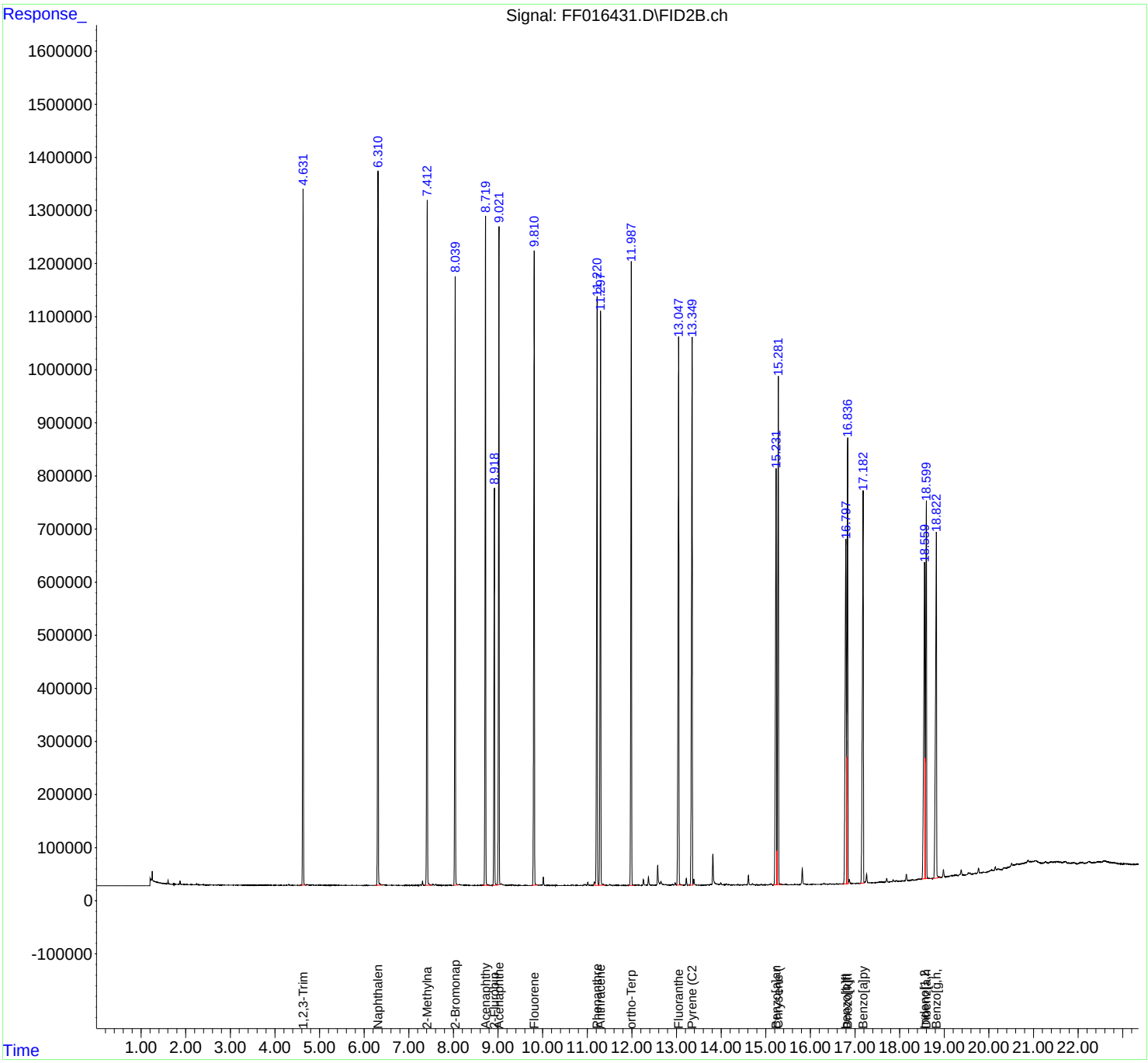
(f)=RT Delta > 1/2 Window (m)=manual int.

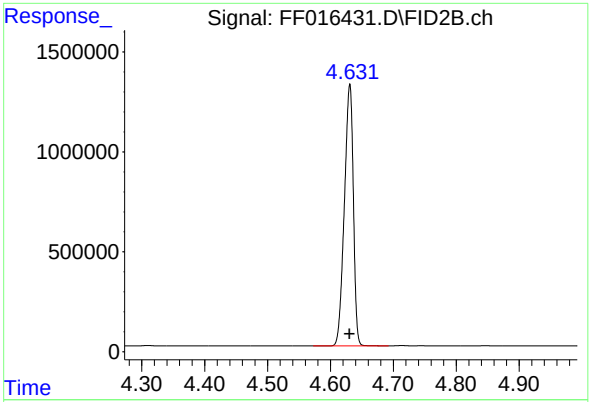
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016431.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 13:59
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Sep 24 15:18:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:16:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

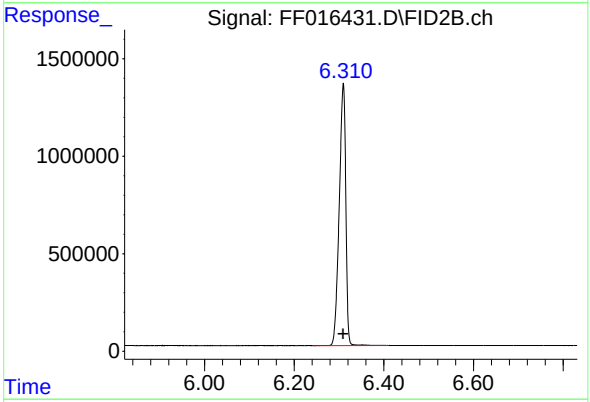




#1 1,2,3-Trimethylbenzene (C10.1)

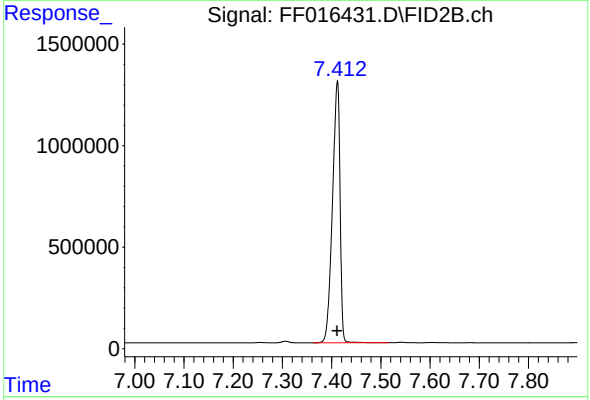
R.T.: 4.630 min
Delta R.T.: 0.000 min
Response: 12963406
Conc: 95.29 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



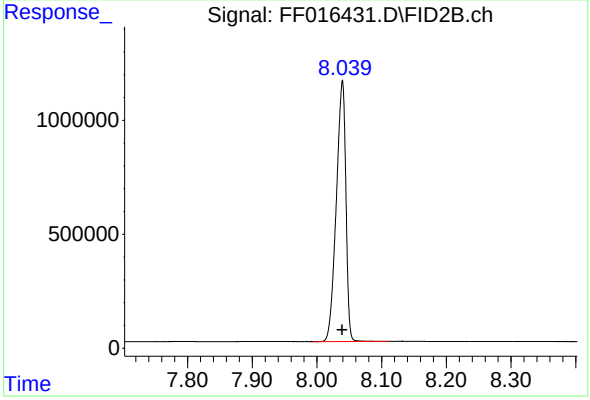
#2 Naphthalene (C11.7)

R.T.: 6.309 min
Delta R.T.: 0.000 min
Response: 13608516
Conc: 95.75 ug/ml



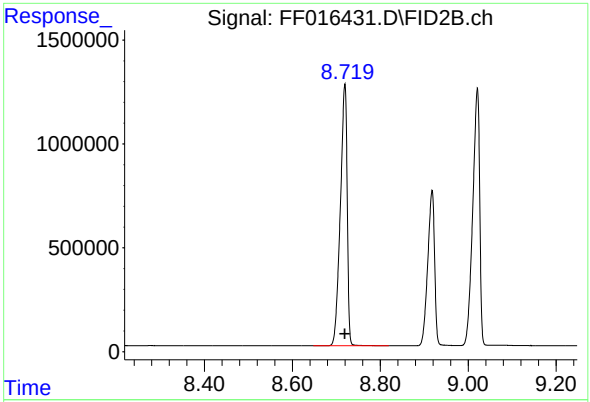
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.411 min
Delta R.T.: 0.000 min
Response: 13820236
Conc: 95.72 ug/ml



#4 2-Bromonaphthalene (SURR)

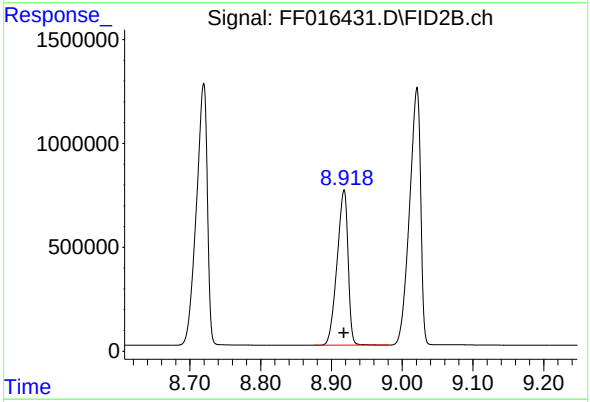
R.T.: 8.039 min
Delta R.T.: 0.000 min
Response: 11754305
Conc: 95.77 ug/ml



#5 Acenaphthylene (C15.06)

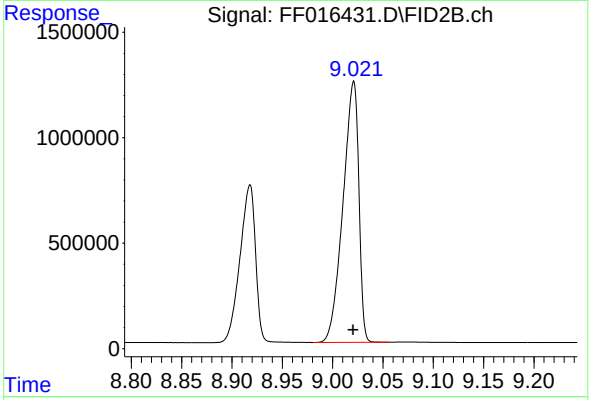
R.T.: 8.719 min
Delta R.T.: 0.000 min
Response: 13570625
Conc: 95.61 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



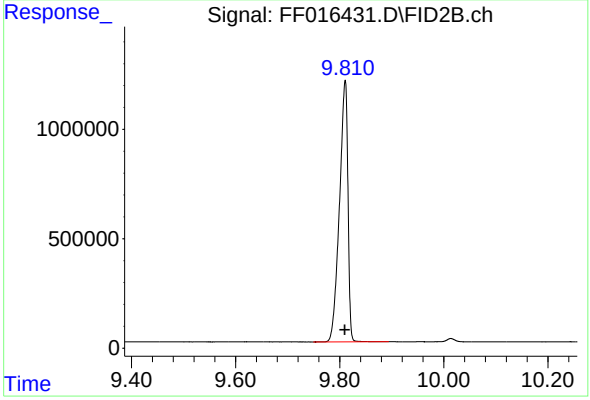
#6 2-Flurobiphenyl (SURR)

R.T.: 8.917 min
Delta R.T.: 0.000 min
Response: 8058977
Conc: 96.14 ug/ml



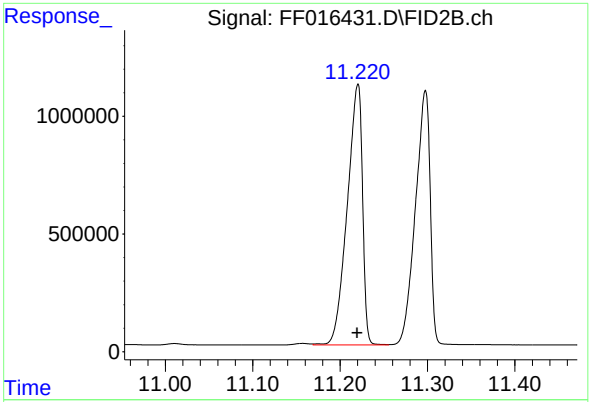
#7 Acenaphthene (C15.5)

R.T.: 9.020 min
Delta R.T.: 0.000 min
Response: 13512842
Conc: 96.14 ug/ml



#8 Flouorene (C16.55)

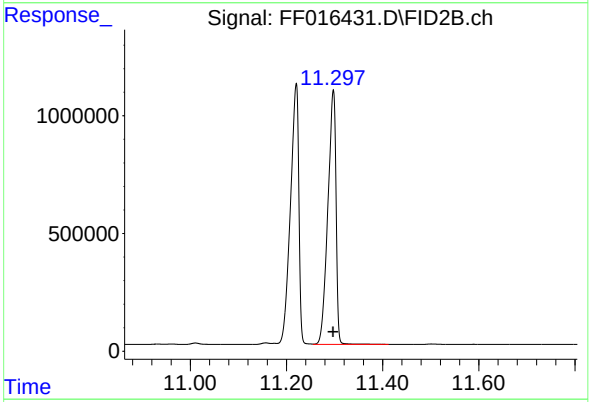
R.T.: 9.810 min
Delta R.T.: 0.000 min
Response: 13450975
Conc: 94.94 ug/ml



#9 Phenanthrene (C19.36)

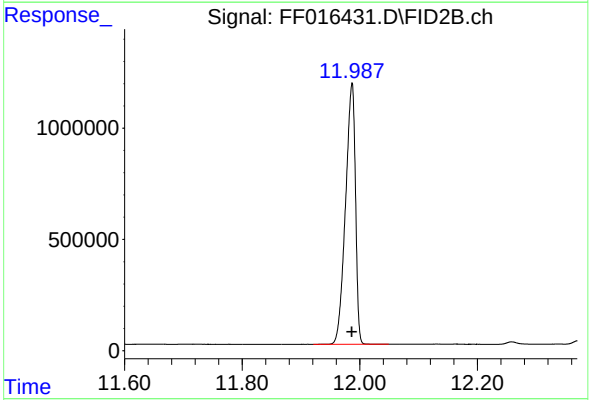
R.T.: 11.220 min
Delta R.T.: 0.000 min
Response: 13438313
Conc: 94.91 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



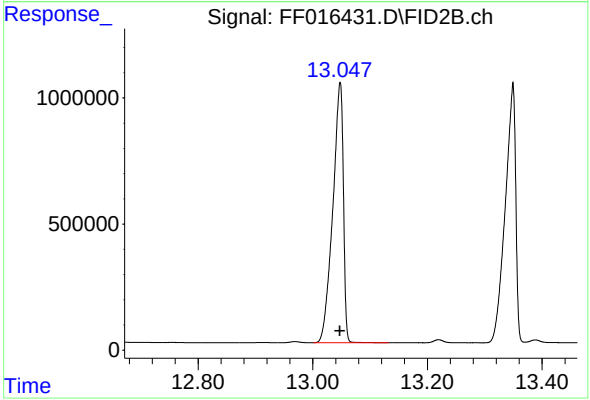
#10 Anthracene (C19.43)

R.T.: 11.297 min
Delta R.T.: 0.000 min
Response: 12723925
Conc: 93.58 ug/ml



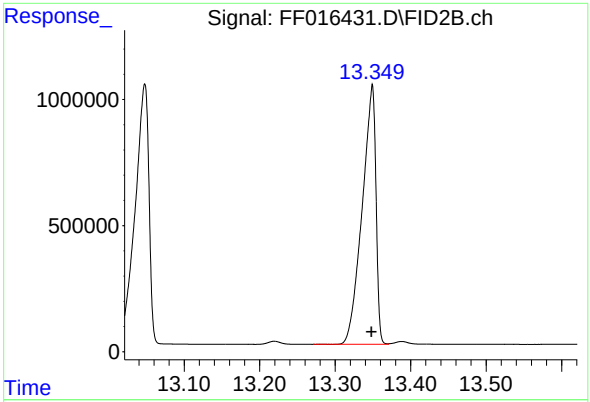
#11 ortho-Terphenyl (SURR)

R.T.: 11.986 min
Delta R.T.: 0.000 min
Response: 13753707
Conc: 94.36 ug/ml



#12 Fluoranthene (C21.85)

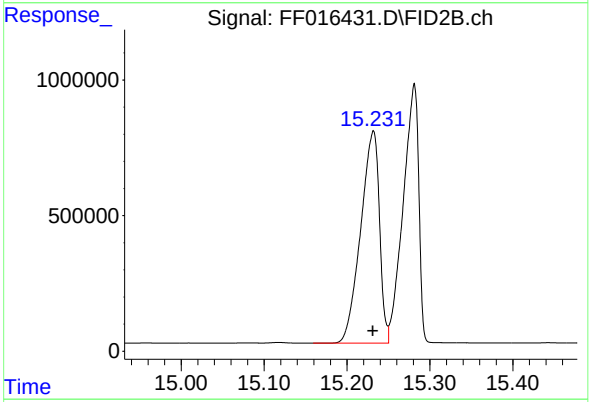
R.T.: 13.047 min
Delta R.T.: 0.000 min
Response: 13192658
Conc: 94.13 ug/ml



#13 Pyrene (C20.8)

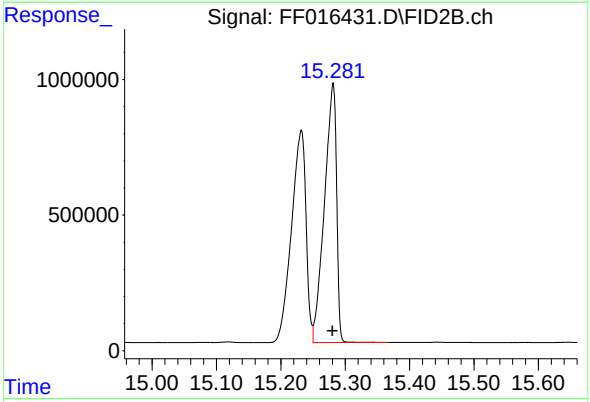
R.T.: 13.348 min
Delta R.T.: 0.000 min
Response: 13029172
Conc: 94.51 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



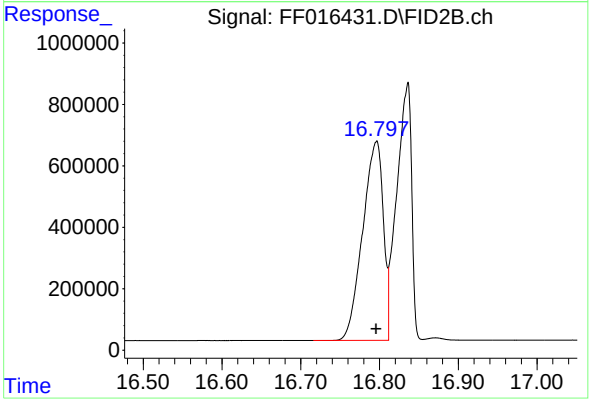
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.231 min
Delta R.T.: 0.000 min
Response: 12303315
Conc: 93.97 ug/ml



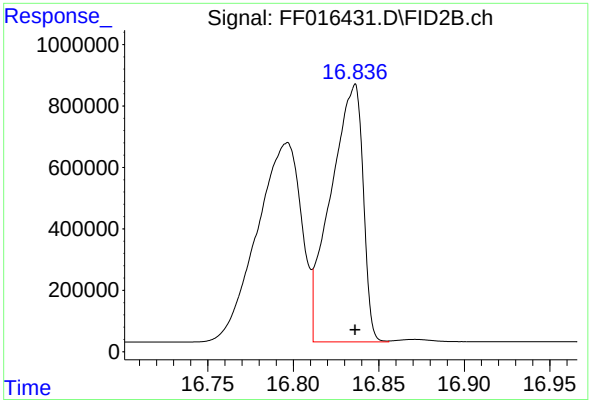
#15 Chrysene (C27.41)

R.T.: 15.280 min
Delta R.T.: 0.000 min
Response: 12463435
Conc: 93.09 ug/ml



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

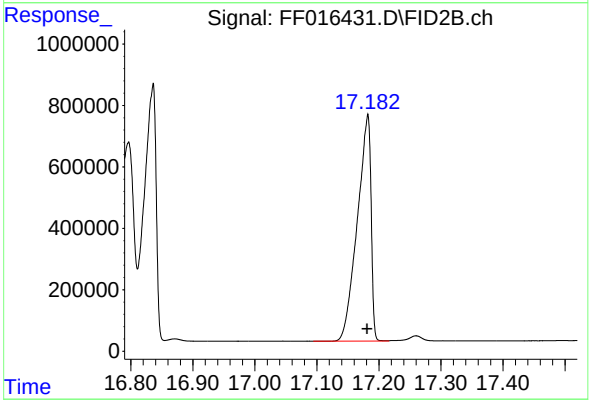
R.T.: 16.796 min
Delta R.T.: 0.000 min
Response: 11802907
Conc: 93.35 ug/ml



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

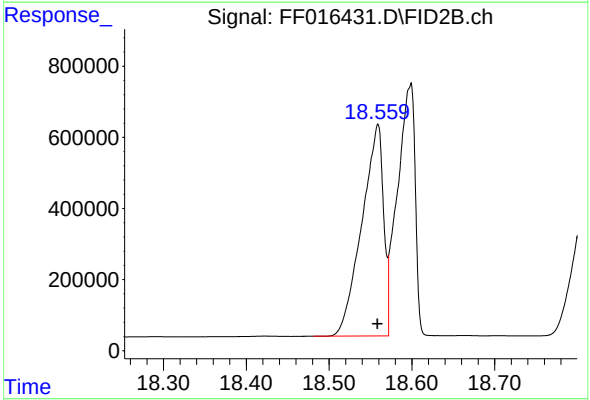
R.T.: 16.835 min
Delta R.T.: -0.002 min
Response: 10991506
Conc: 92.58 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



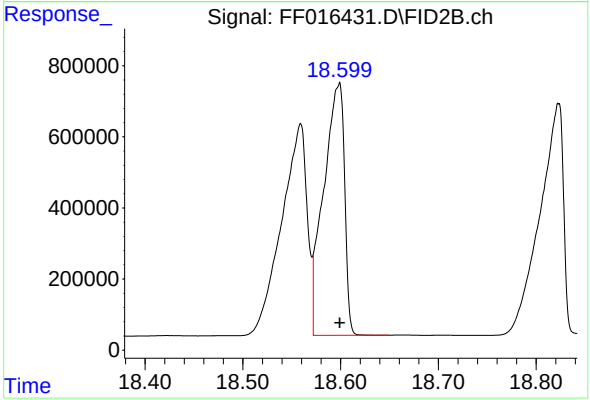
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.181 min
Delta R.T.: 0.000 min
Response: 11301951
Conc: 93.02 ug/ml



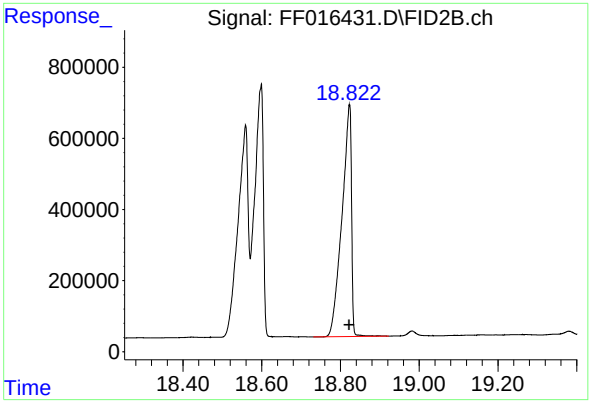
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.558 min
Delta R.T.: 0.000 min
Response: 10849044
Conc: 96.96 ug/ml



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

R.T.: 18.597 min
Delta R.T.: -0.002 min
Response: 10510879
Conc: 89.28 ug/ml



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

R.T.: 18.822 min
Delta R.T.: 0.000 min
Response: 10967237
Conc: 93.49 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016431.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 13:59
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.630	4.572	4.692	BV	1313701	12963406	93.80%	5.023%
2	6.309	6.242	6.411	BB	1342183	13608516	98.47%	5.273%
3	7.411	7.362	7.516	BB	1282824	13820236	100.00%	5.355%
4	8.039	7.994	8.111	BV	1147422	11754305	85.05%	4.555%
5	8.719	8.647	8.819	BB	1259569	13570625	98.19%	5.259%
6	8.917	8.874	8.981	BV	747111	8058977	58.31%	3.123%
7	9.020	8.981	9.056	PV	1241449	13512842	97.78%	5.236%
8	9.810	9.749	9.894	BB	1185459	13450975	97.33%	5.212%
9	11.220	11.169	11.256	VV	1101311	13438313	97.24%	5.207%
10	11.297	11.256	11.412	VB	1083190	12723925	92.07%	4.930%
11	11.986	11.921	12.049	BB	1166117	13753707	99.52%	5.329%
12	13.047	13.001	13.132	BB	1034838	13192658	95.46%	5.112%
13	13.348	13.271	13.371	BV	1004023	13029172	94.28%	5.049%
14	15.231	15.159	15.250	BV	779980	12303315	89.02%	4.767%
15	15.280	15.250	15.367	VB	957678	12463435	90.18%	4.830%
16	16.796	16.716	16.812	BV	647217	11802907	85.40%	4.574%
17	16.835	16.812	16.856	VV	817147	10991506	79.53%	4.259%
18	17.181	17.094	17.216	BV	725721	11301951	81.78%	4.379%
19	18.558	18.481	18.572	BV	591631	10849044	78.50%	4.204%
20	18.597	18.572	18.649	VV	699591	10510879	76.05%	4.073%
21	18.822	18.731	18.922	BV	653295	10967237	79.36%	4.250%

Sum of corrected areas: 258067930

Aromatic EPH 092425.M Thu Sep 25 00:47:17 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016432.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 14:29
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 24 15:20:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:16:11 2025
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...	8.034	5654549	47.312 ug/ml
Spiked Amount	50.000		Recovery =	94.62%
6) S	2-Flurobiphenyl (SURR)	8.912	3878601	47.449 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	94.90%
11) S	ortho-Terphenyl (SURR)	11.980	6709235	47.282 ug/ml
Spiked Amount	50.000		Recovery =	94.56%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.627	6249533	47.218 ug/ml
2) T	Naphthalene (C11.7)	6.304	6533060	47.237 ug/ml
3) T	2-Methylnaphthalene (...	7.406	6650030	47.302 ug/ml
5) T	Acenaphthylene (C15.06)	8.712	6564172	47.434 ug/ml
7) T	Acenaphthene (C15.5)	9.013	6513589	47.501 ug/ml
8) T	Flouorene (C16.55)	9.803	6507793	47.214 ug/ml
9) T	Phenanthrene (C19.36)	11.212	6532119	47.356 ug/ml
10) T	Anthracene (C19.43)	11.287	6223741	47.102 ug/ml
12) T	Fluoranthene (C21.85)	13.037	6442747	47.239 ug/ml
13) T	Pyrene (C20.8)	13.337	6369315	47.402 ug/ml
14) T	Benzo[a]anthracene (C...	15.221	6018657	47.238 ug/ml
15) T	Chrysene (C27.41)	15.266	6125610	47.085 ug/ml
16) T	benzo[b]fluoranthene ...	16.783	5795694	47.148 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.819	5445729	47.102 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.166	5558378	47.084 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.542	5087687	46.887 ug/ml
20) T	Dibenz[a,h]anthracene...	18.582	5425328	46.992 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.802	5351044	46.989 ug/ml

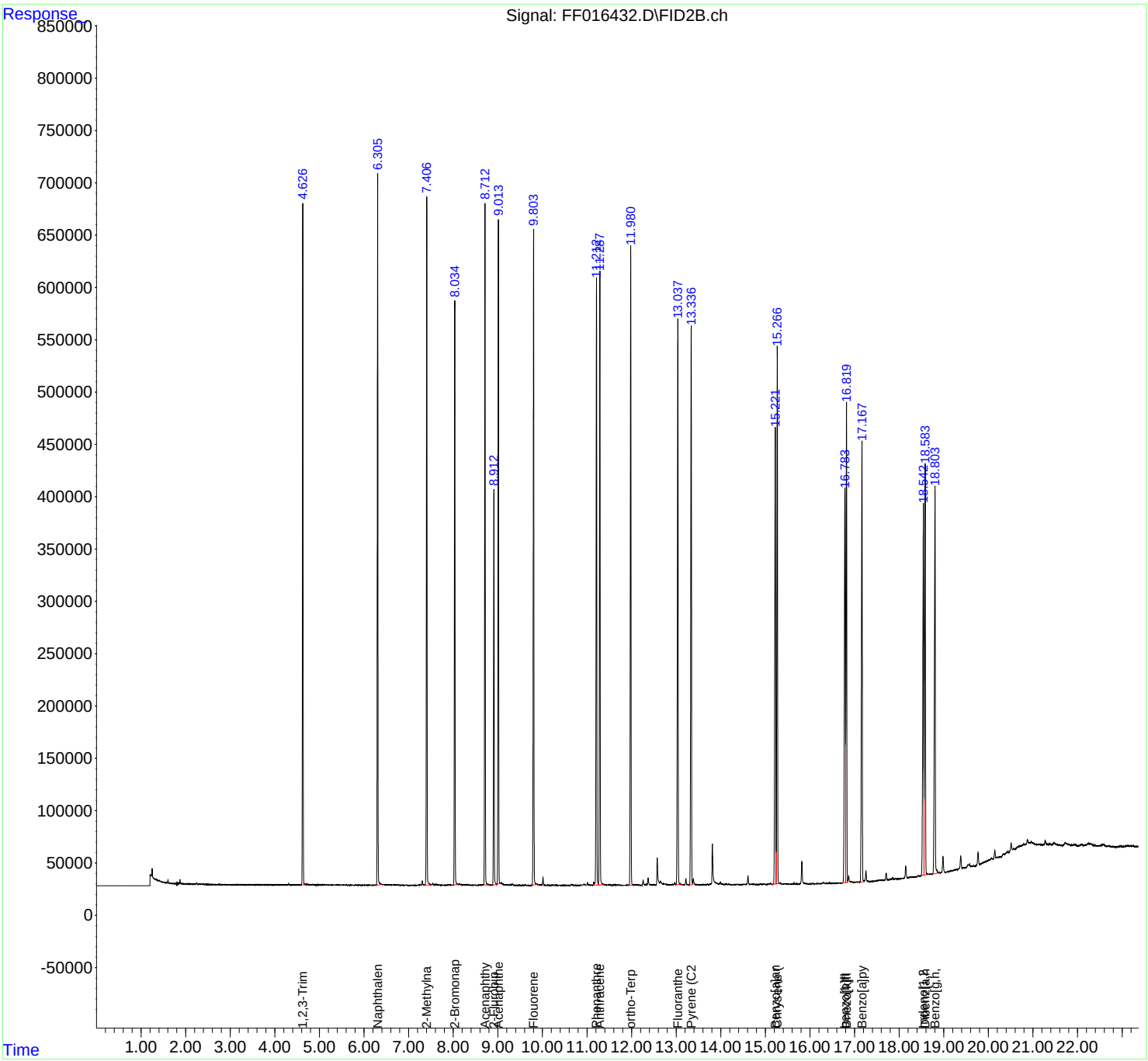
(f)=RT Delta > 1/2 Window (m)=manual int.

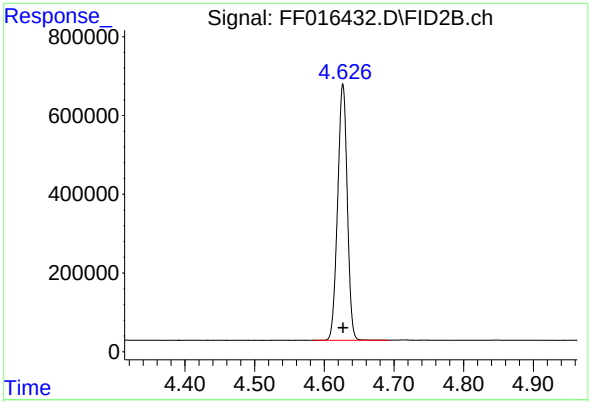
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016432.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 14:29
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 24 15:20:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:16:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

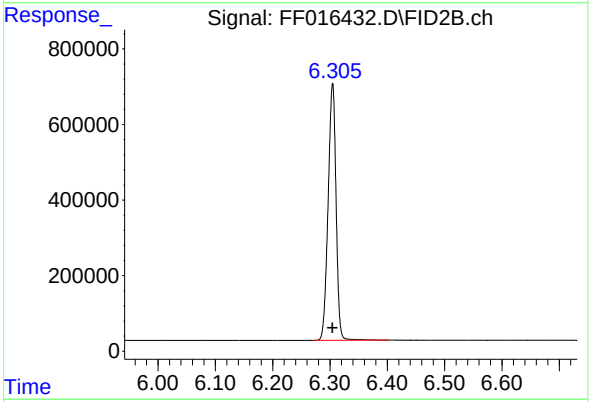




#1 1,2,3-Trimethylbenzene (C10.1)

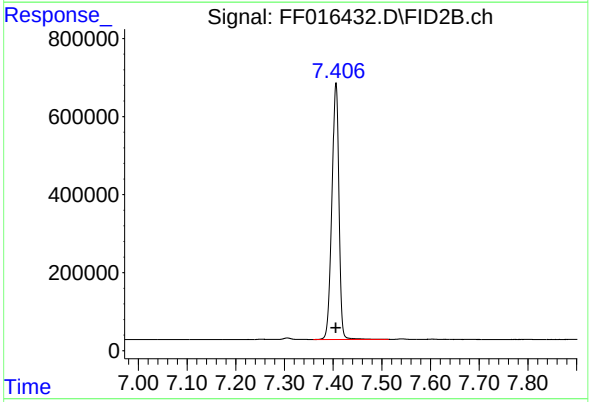
R.T.: 4.627 min
Delta R.T.: 0.000 min
Response: 6249533
Conc: 47.22 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



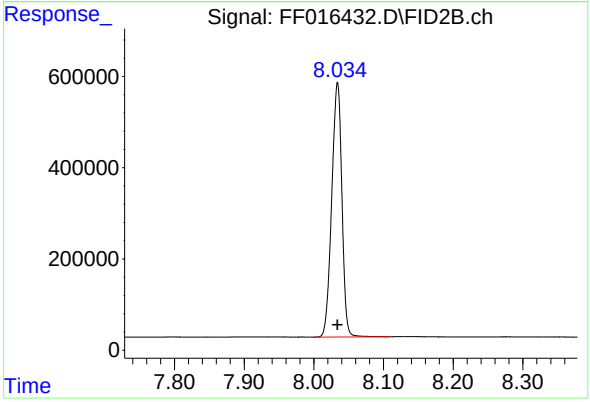
#2 Naphthalene (C11.7)

R.T.: 6.304 min
Delta R.T.: 0.000 min
Response: 6533060
Conc: 47.24 ug/ml



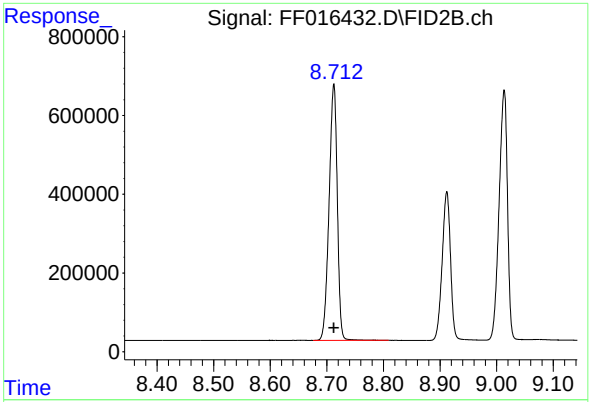
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.406 min
Delta R.T.: 0.000 min
Response: 6650030
Conc: 47.30 ug/ml



#4 2-Bromonaphthalene (SURR)

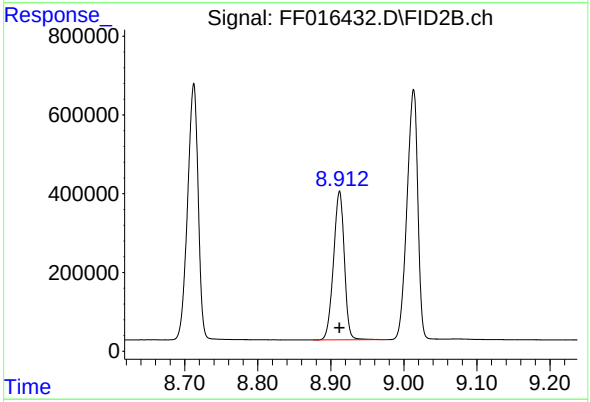
R.T.: 8.034 min
Delta R.T.: 0.000 min
Response: 5654549
Conc: 47.31 ug/ml



#5 Acenaphthylene (C15.06)

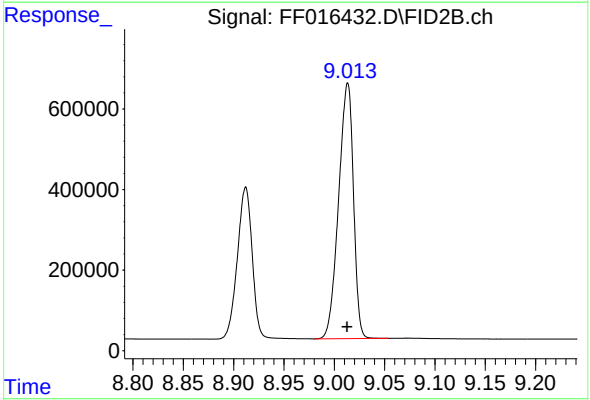
R.T.: 8.712 min
Delta R.T.: 0.000 min
Response: 6564172
Conc: 47.43 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



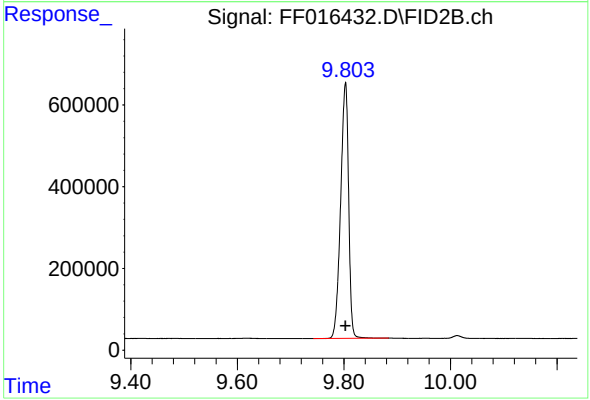
#6 2-Flurobiphenyl (SURR)

R.T.: 8.912 min
Delta R.T.: 0.000 min
Response: 3878601
Conc: 47.45 ug/ml



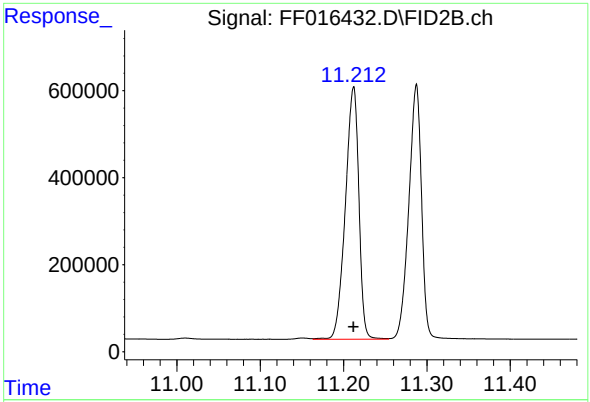
#7 Acenaphthene (C15.5)

R.T.: 9.013 min
Delta R.T.: 0.000 min
Response: 6513589
Conc: 47.50 ug/ml



#8 Flouorene (C16.55)

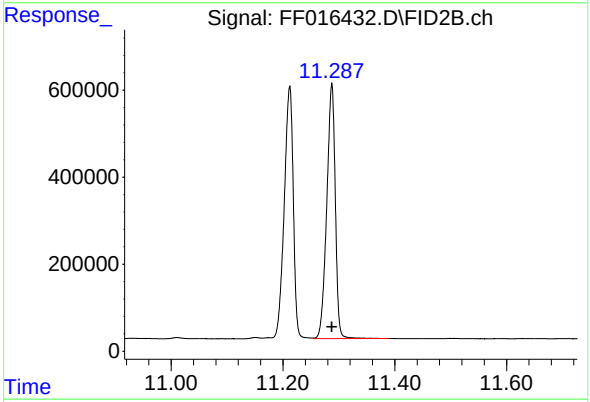
R.T.: 9.803 min
Delta R.T.: 0.000 min
Response: 6507793
Conc: 47.21 ug/ml



#9 Phenanthrene (C19.36)

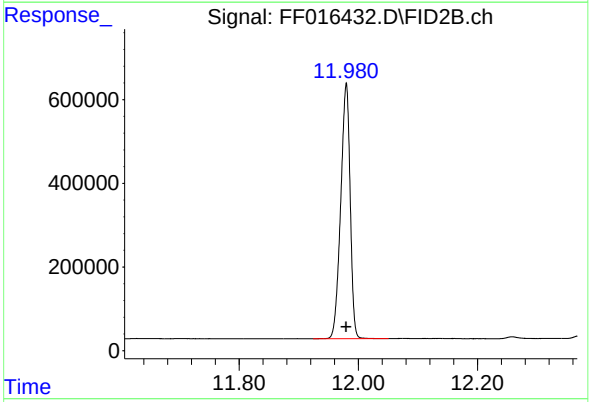
R.T.: 11.212 min
Delta R.T.: 0.000 min
Response: 6532119
Conc: 47.36 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



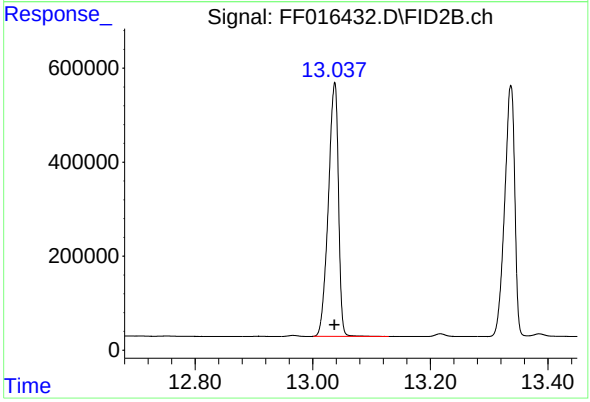
#10 Anthracene (C19.43)

R.T.: 11.287 min
Delta R.T.: 0.000 min
Response: 6223741
Conc: 47.10 ug/ml



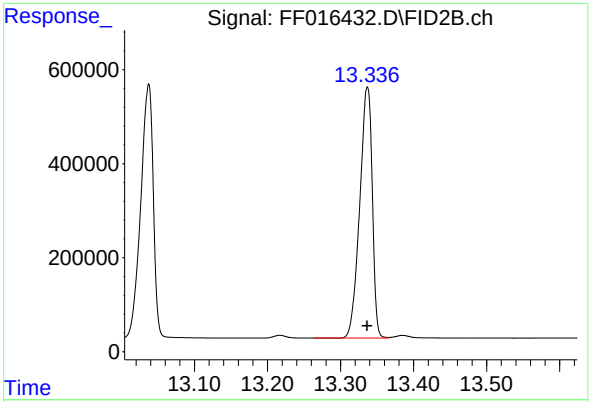
#11 ortho-Terphenyl (SURR)

R.T.: 11.980 min
Delta R.T.: 0.000 min
Response: 6709235
Conc: 47.28 ug/ml



#12 Fluoranthene (C21.85)

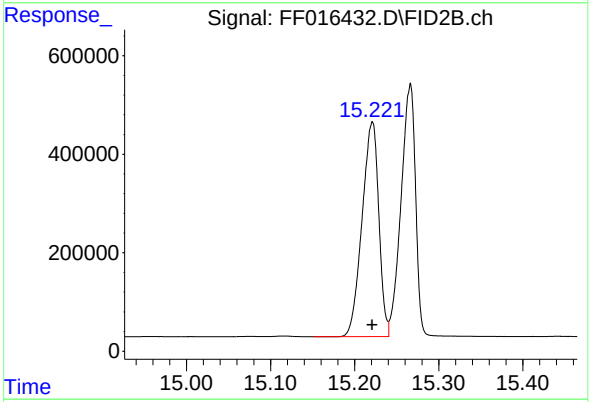
R.T.: 13.037 min
Delta R.T.: 0.000 min
Response: 6442747
Conc: 47.24 ug/ml



#13 Pyrene (C20.8)

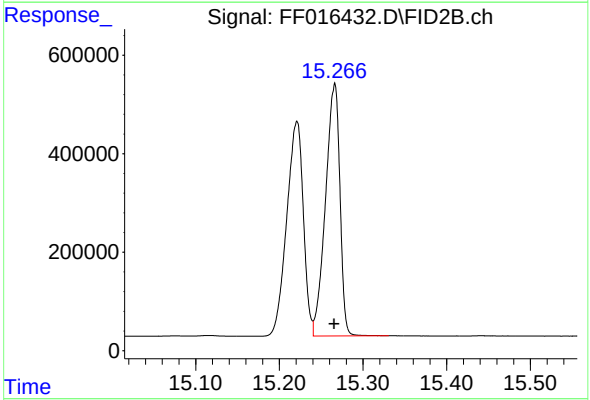
R.T.: 13.337 min
Delta R.T.: 0.000 min
Response: 6369315
Conc: 47.40 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



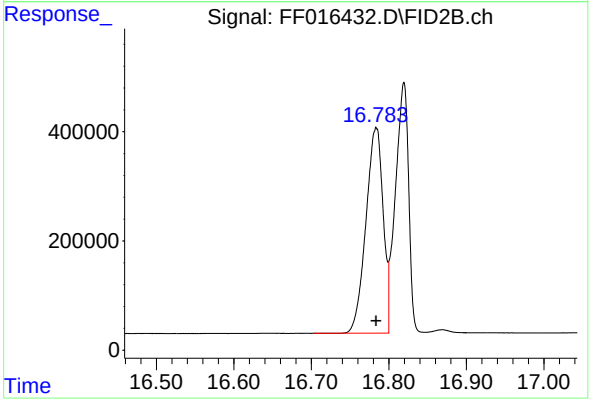
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.221 min
Delta R.T.: 0.000 min
Response: 6018657
Conc: 47.24 ug/ml



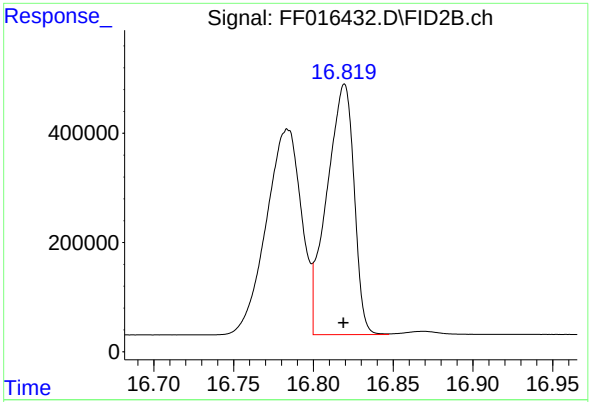
#15 Chrysene (C27.41)

R.T.: 15.266 min
Delta R.T.: 0.000 min
Response: 6125610
Conc: 47.09 ug/ml



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

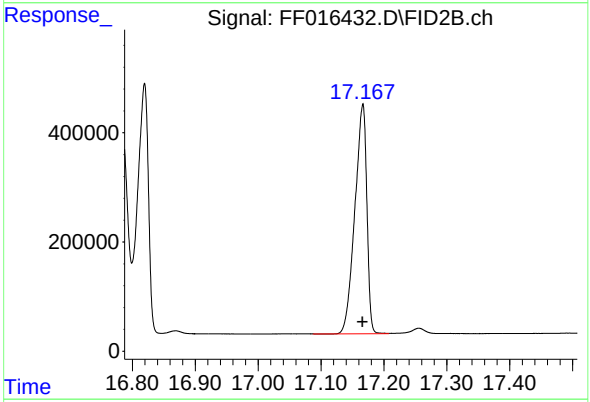
R.T.: 16.783 min
Delta R.T.: 0.000 min
Response: 5795694
Conc: 47.15 ug/ml



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

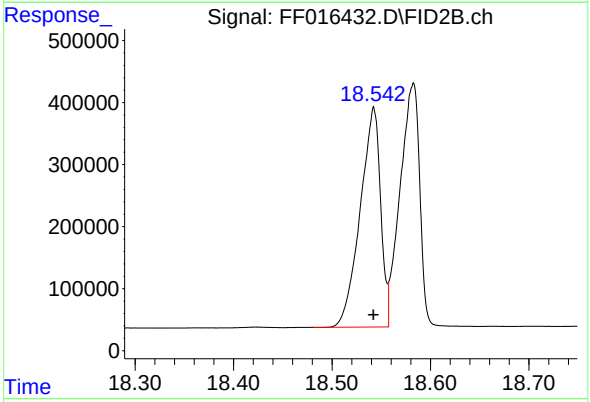
R.T.: 16.819 min
Delta R.T.: 0.000 min
Response: 5445729
Conc: 47.10 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



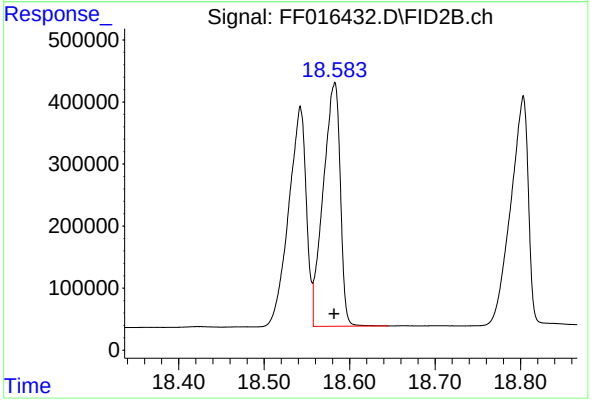
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.166 min
Delta R.T.: 0.000 min
Response: 5558378
Conc: 47.08 ug/ml



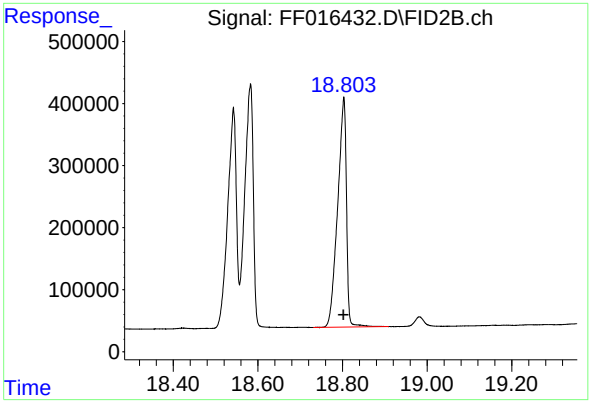
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.542 min
Delta R.T.: 0.000 min
Response: 5087687
Conc: 46.89 ug/ml



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

R.T.: 18.582 min
Delta R.T.: 0.000 min
Response: 5425328
Conc: 46.99 ug/ml



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

R.T.: 18.802 min
Delta R.T.: 0.000 min
Response: 5351044
Conc: 46.99 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016432.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 14:29
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.627	4.584	4.692	BB	651647	6249533	93.15%	4.974%
2	6.304	6.271	6.402	BB	680296	6533060	97.37%	5.200%
3	7.406	7.359	7.514	BB	658661	6650030	99.12%	5.293%
4	8.034	7.999	8.107	BV	559602	5654549	84.28%	4.501%
5	8.712	8.676	8.809	BB	652555	6564172	97.84%	5.225%
6	8.912	8.876	8.979	BV	379317	3878601	57.81%	3.087%
7	9.013	8.979	9.054	PV	633241	6513589	97.08%	5.184%
8	9.803	9.742	9.884	BB	623665	6507793	97.00%	5.180%
9	11.212	11.164	11.254	VV	583678	6532119	97.36%	5.199%
10	11.287	11.254	11.389	VB	587179	6223741	92.76%	4.954%
11	11.980	11.924	12.051	BV	608338	6709235	100.00%	5.340%
12	13.037	13.001	13.129	BB	542872	6442747	96.03%	5.128%
13	13.337	13.262	13.366	BV	535712	6369315	94.93%	5.070%
14	15.221	15.151	15.241	BV	436284	6018657	89.71%	4.791%
15	15.266	15.241	15.331	VB	510620	6125610	91.30%	4.876%
16	16.783	16.702	16.800	BV	376389	5795694	86.38%	4.613%
17	16.819	16.800	16.847	VV	459725	5445729	81.17%	4.335%
18	17.166	17.087	17.207	BV	418349	5558378	82.85%	4.424%
19	18.542	18.481	18.557	BV	355784	5087687	75.83%	4.050%
20	18.582	18.557	18.646	VB	392603	5425328	80.86%	4.318%
21	18.802	18.731	18.909	BB	367802	5351044	79.76%	4.259%

Sum of corrected areas: 125636611

Aromatic EPH 092425.M Thu Sep 25 00:48:32 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016433.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 14:59
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 24 15:16:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:16:11 2025
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...	8.031	2558337	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
6) S	2-Flurobiphenyl (SURR)	8.909	1741301	20.000 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.00%
11) S	ortho-Terphenyl (SURR)	11.976	3079552	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.625	2848825	20.000 ug/ml
2) T	Naphthalene (C11.7)	6.302	2963269	20.000 ug/ml
3) T	2-Methylnaphthalene (...	7.402	3011112	20.000 ug/ml
5) T	Acenaphthylene (C15.06)	8.708	2963322	20.000 ug/ml
7) T	Acenaphthene (C15.5)	9.008	2919556	20.000 ug/ml
8) T	Flouorene (C16.55)	9.798	2976884	20.000 ug/ml
9) T	Phenanthrene (C19.36)	11.207	2975729	20.000 ug/ml
10) T	Anthracene (C19.43)	11.283	2893687	20.000 ug/ml
12) T	Fluoranthene (C21.85)	13.032	2967546	20.000 ug/ml
13) T	Pyrene (C20.8)	13.331	2908519	20.000 ug/ml
14) T	Benzo[a]anthracene (C...	15.215	2776618	20.000 ug/ml
15) T	Chrysene (C27.41)	15.257	2862862	20.000 ug/ml
16) T	benzo[b]fluoranthene ...	16.777	2696749	20.000 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.809	2560301	20.000 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.157	2599389	20.000 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.533	2305647	20.000 ug/ml
20) T	Dibenz[a,h]anthracene...	18.572	2654779	20.000 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.789	2498798	20.000 ug/ml

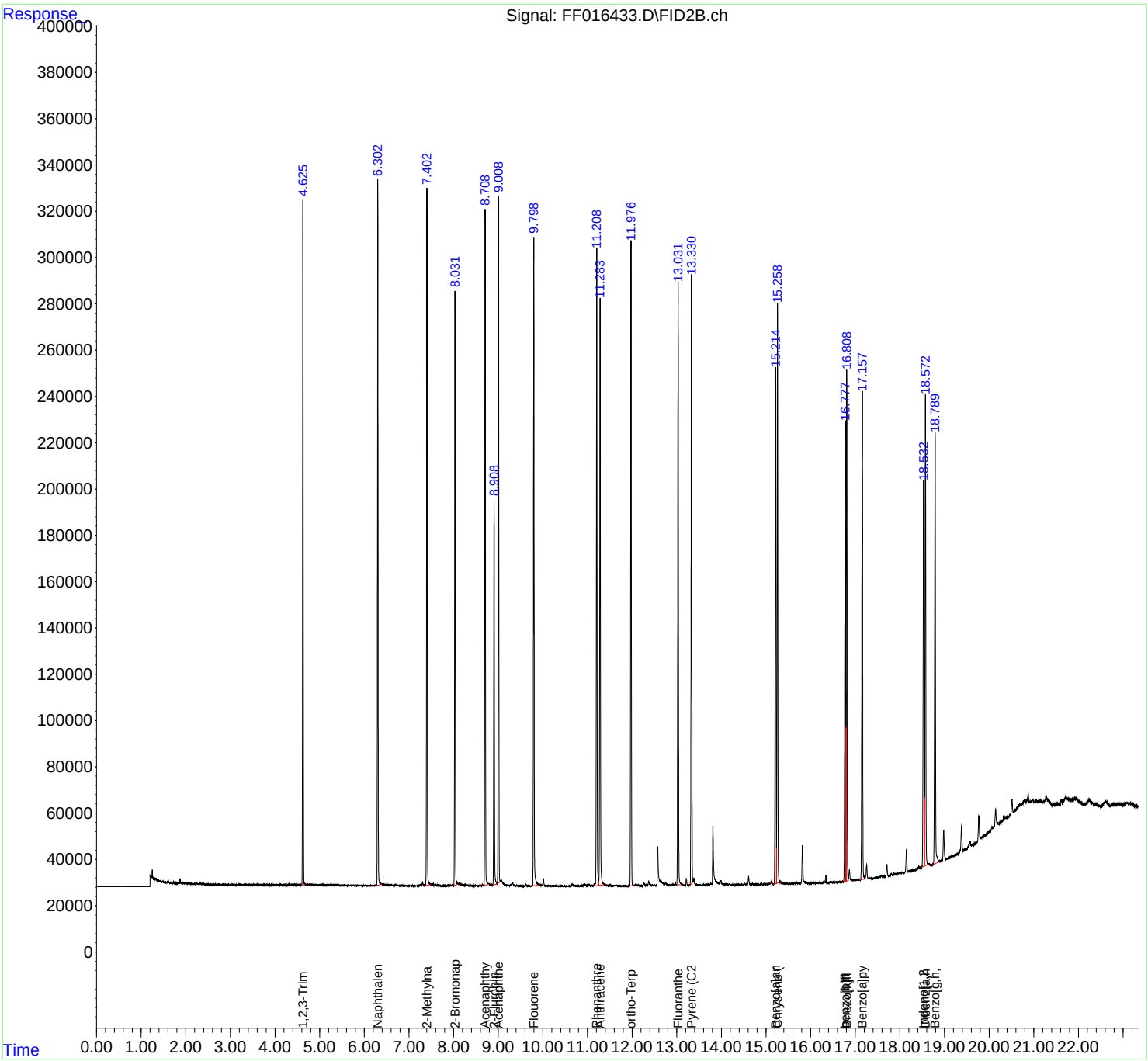
(f)=RT Delta > 1/2 Window (m)=manual int.

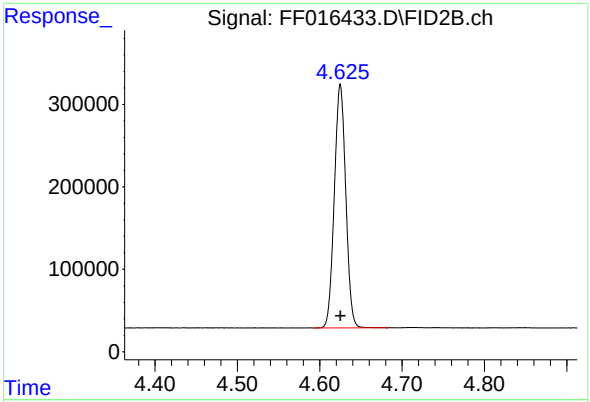
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016433.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 14:59
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 24 15:16:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:16:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

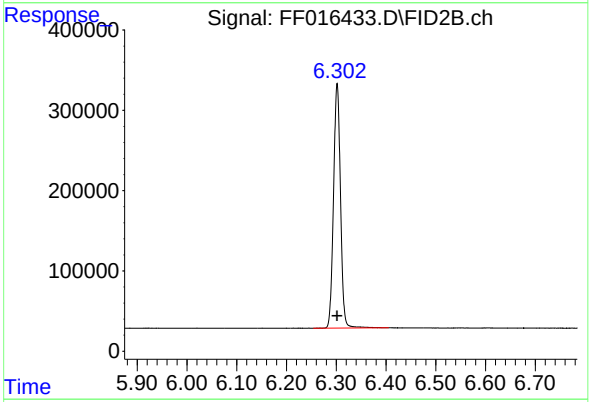




#1 1,2,3-Trimethylbenzene (C10.1)

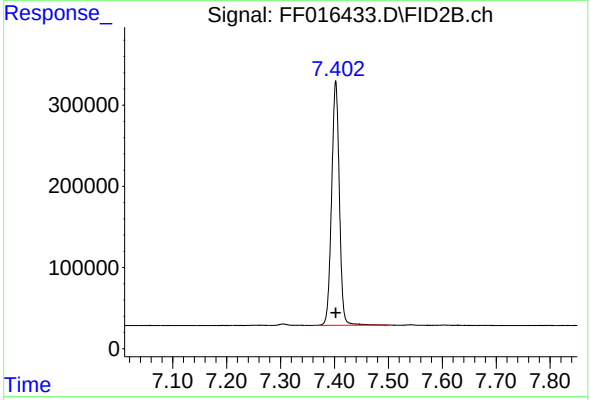
R.T.: 4.625 min
Delta R.T.: 0.000 min
Response: 2848825
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



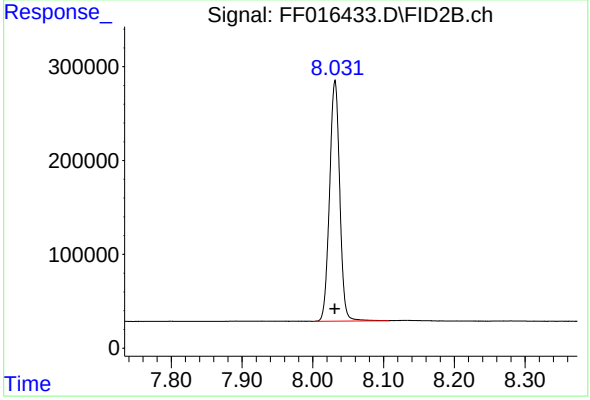
#2 Naphthalene (C11.7)

R.T.: 6.302 min
Delta R.T.: 0.000 min
Response: 2963269
Conc: 20.00 ug/ml



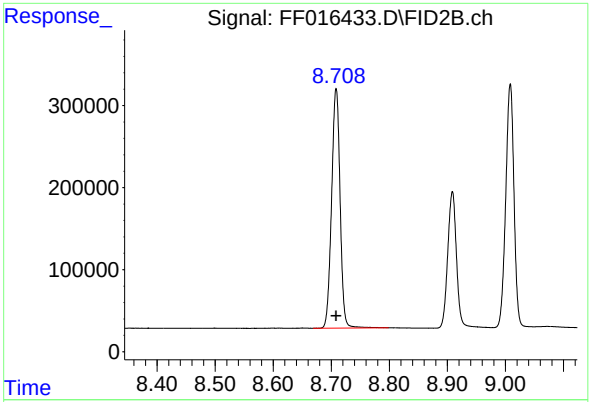
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.402 min
Delta R.T.: 0.000 min
Response: 3011112
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

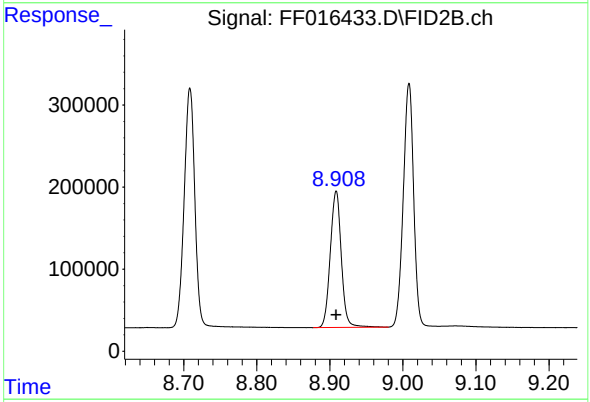
R.T.: 8.031 min
Delta R.T.: 0.000 min
Response: 2558337
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

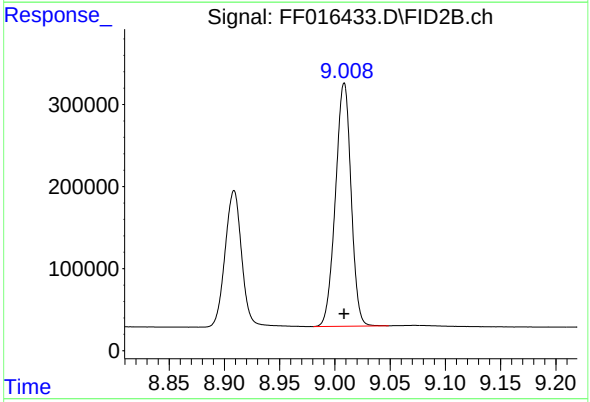
R.T.: 8.708 min
Delta R.T.: 0.000 min
Response: 2963322
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



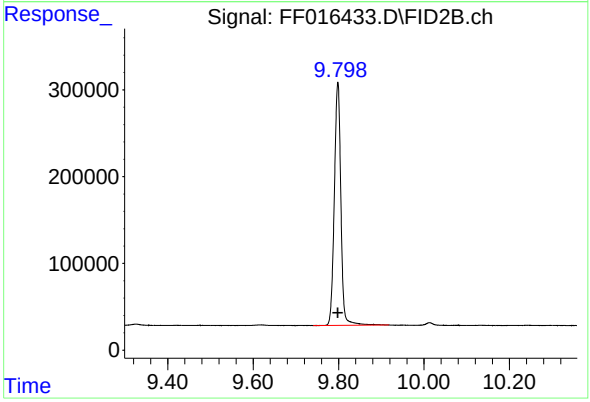
#6 2-Flurobiphenyl (SURR)

R.T.: 8.909 min
Delta R.T.: 0.000 min
Response: 1741301
Conc: 20.00 ug/ml



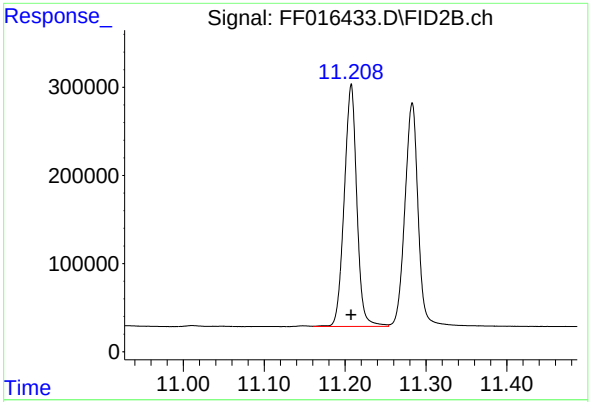
#7 Acenaphthene (C15.5)

R.T.: 9.008 min
Delta R.T.: 0.000 min
Response: 2919556
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

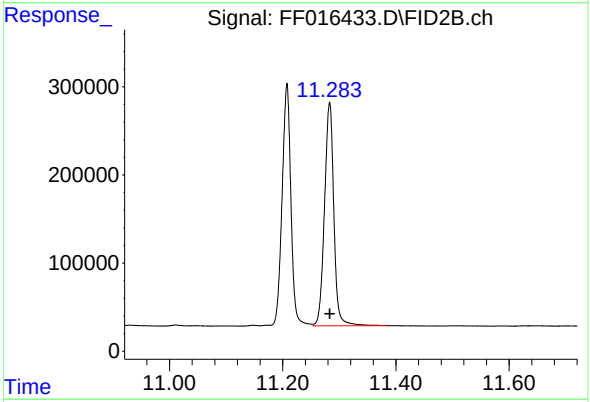
R.T.: 9.798 min
Delta R.T.: 0.000 min
Response: 2976884
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

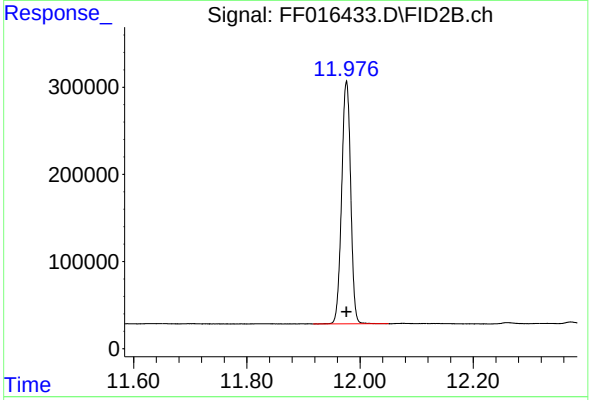
R.T.: 11.207 min
Delta R.T.: 0.000 min
Response: 2975729
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



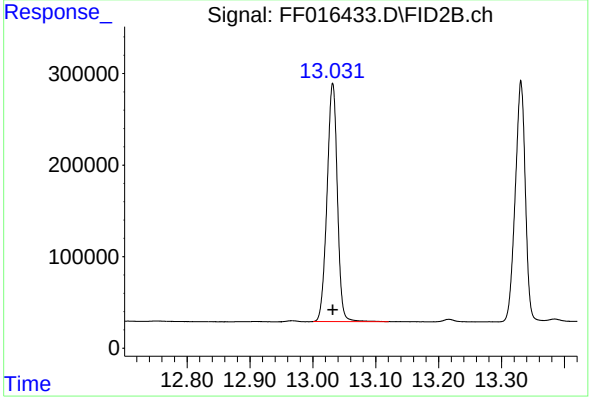
#10 Anthracene (C19.43)

R.T.: 11.283 min
Delta R.T.: 0.000 min
Response: 2893687
Conc: 20.00 ug/ml



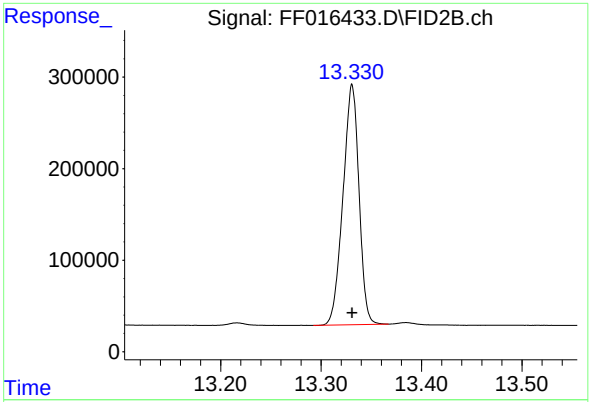
#11 ortho-Terphenyl (SURR)

R.T.: 11.976 min
Delta R.T.: 0.000 min
Response: 3079552
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

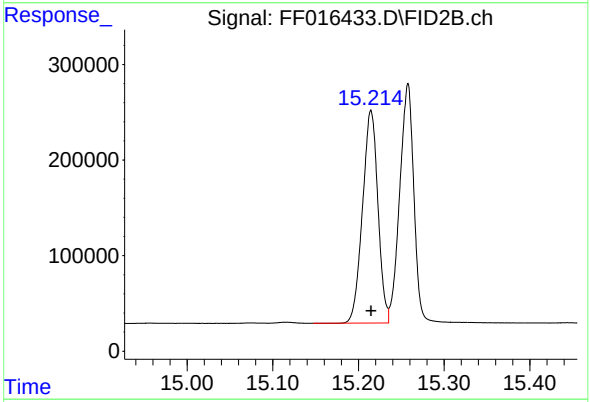
R.T.: 13.032 min
Delta R.T.: 0.000 min
Response: 2967546
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

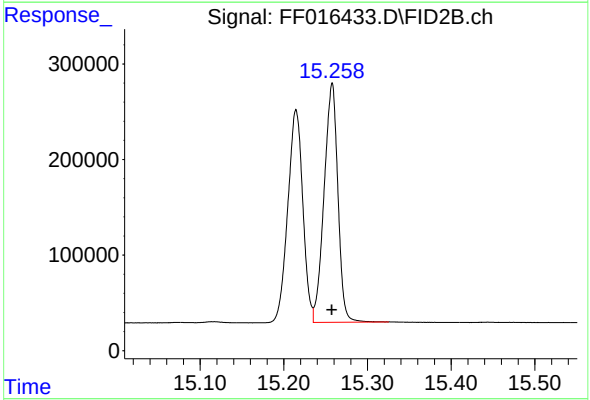
R.T.: 13.331 min
Delta R.T.: 0.000 min
Response: 2908519
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



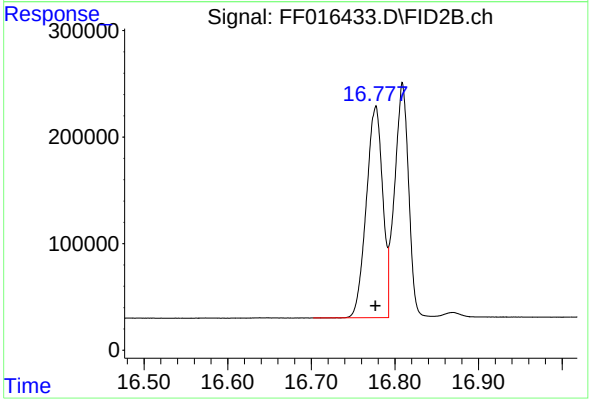
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.215 min
Delta R.T.: 0.000 min
Response: 2776618
Conc: 20.00 ug/ml



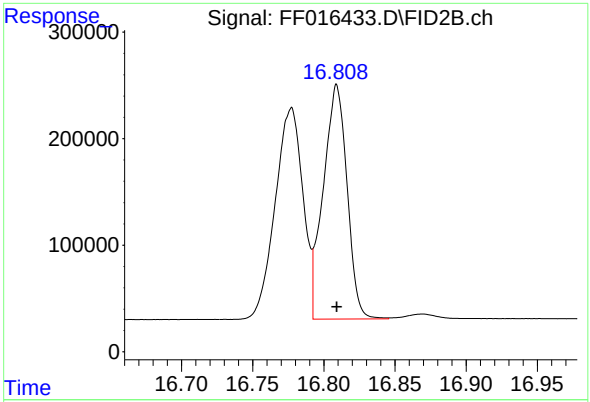
#15 Chrysene (C27.41)

R.T.: 15.257 min
Delta R.T.: 0.000 min
Response: 2862862
Conc: 20.00 ug/ml



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

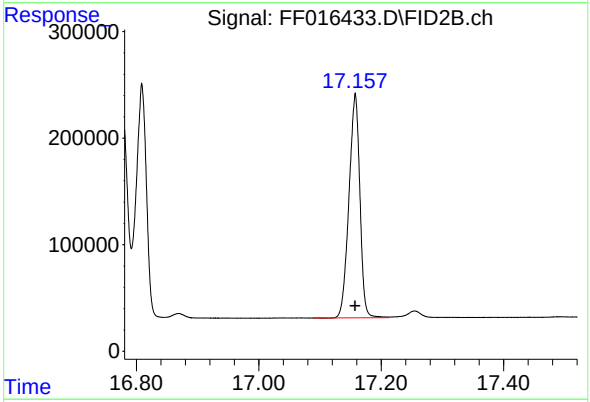
R.T.: 16.777 min
Delta R.T.: 0.000 min
Response: 2696749
Conc: 20.00 ug/ml



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

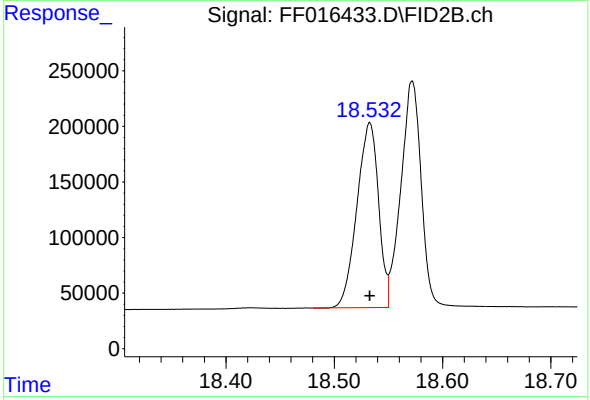
R.T.: 16.809 min
Delta R.T.: 0.000 min
Response: 2560301
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



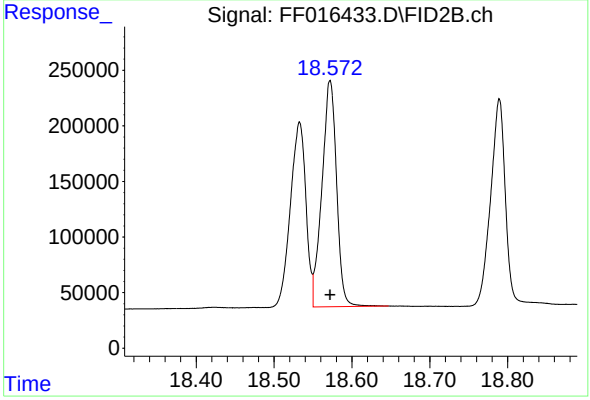
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.157 min
Delta R.T.: 0.000 min
Response: 2599389
Conc: 20.00 ug/ml



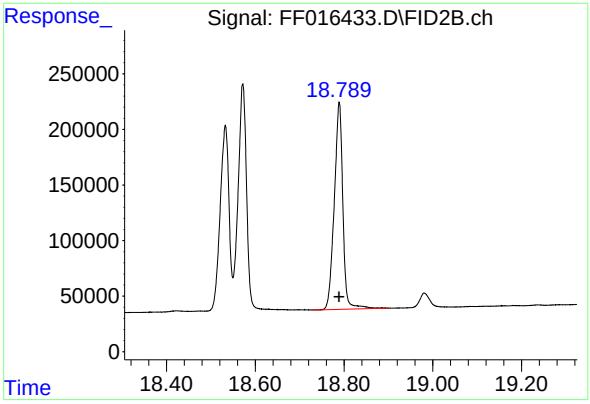
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.533 min
Delta R.T.: 0.000 min
Response: 2305647
Conc: 20.00 ug/ml



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

R.T.: 18.572 min
Delta R.T.: 0.000 min
Response: 2654779
Conc: 20.00 ug/ml



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

R.T.: 18.789 min
Delta R.T.: 0.000 min
Response: 2498798
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016433.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 14:59
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.625	4.592	4.684	BB	295387	2848825	92.51%	4.932%
2	6.302	6.254	6.405	BB	304676	2963269	96.22%	5.130%
3	7.402	7.360	7.500	BB	300976	3011112	97.78%	5.213%
4	8.031	8.000	8.107	BB	257165	2558337	83.07%	4.429%
5	8.708	8.669	8.799	BB	292176	2963322	96.23%	5.130%
6	8.909	8.877	8.980	BV	166755	1741301	56.54%	3.015%
7	9.008	8.980	9.049	PV	297457	2919556	94.80%	5.054%
8	9.798	9.740	9.917	BB	281199	2976884	96.67%	5.154%
9	11.207	11.160	11.254	VV	274391	2975729	96.63%	5.152%
10	11.283	11.254	11.387	VB	252595	2893687	93.96%	5.010%
11	11.976	11.917	12.050	BB	277607	3079552	100.00%	5.331%
12	13.032	13.000	13.120	BB	261027	2967546	96.36%	5.137%
13	13.331	13.292	13.367	BV	262989	2908519	94.45%	5.035%
14	15.215	15.147	15.235	BV	222104	2776618	90.16%	4.807%
15	15.257	15.235	15.325	VB	250097	2862862	92.96%	4.956%
16	16.777	16.702	16.792	BV	198692	2696749	87.57%	4.669%
17	16.809	16.792	16.845	VV	220665	2560301	83.14%	4.432%
18	17.157	17.089	17.212	BV	209878	2599389	84.41%	4.500%
19	18.533	18.480	18.550	BV	166491	2305647	74.87%	3.992%
20	18.572	18.550	18.647	VB	203361	2654779	86.21%	4.596%
21	18.789	18.730	18.900	BB	186301	2498798	81.14%	4.326%
			Sum of corrected areas:			57762783		

Aromatic EPH 092425.M Thu Sep 25 00:49:09 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016434.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 15:28
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 24 16:21:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:21:45 2025
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...	8.031	1481517	11.695 ug/ml
Spiked Amount	50.000		Recovery =	23.39%
6) S	2-Flurobiphenyl (SURR)	8.907	988395	11.491 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	22.98%
11) S	ortho-Terphenyl (SURR)	11.974	1809727	11.932 ug/ml
Spiked Amount	50.000		Recovery =	23.86%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.627	1662196	11.804 ug/ml
2) T	Naphthalene (C11.7)	6.302	1716476	11.705 ug/ml
3) T	2-Methylnaphthalene (...	7.402	1742677	11.695 ug/ml
5) T	Acenaphthylene (C15.06)	8.707	1714200	11.690 ug/ml
7) T	Acenaphthene (C15.5)	9.007	1683417	11.615 ug/ml
8) T	Flouorene (C16.55)	9.796	1736875	11.832 ug/ml
9) T	Phenanthrene (C19.36)	11.204	1732603	11.805 ug/ml
10) T	Anthracene (C19.43)	11.280	1733091	12.168 ug/ml
12) T	Fluoranthene (C21.85)	13.029	1749056	11.979 ug/ml
13) T	Pyrene (C20.8)	13.328	1709506	11.912 ug/ml
14) T	Benzo[a]anthracene (C...	15.211	1649438	12.058 ug/ml
15) T	Chrysene (C27.41)	15.254	1745210	12.360 ug/ml
16) T	benzo[b]fluoranthene ...	16.773	1594531	12.074 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.804	1540396	12.301 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.153	1570961	12.291 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.528	1351251	11.733 ug/ml
20) T	Dibenz[a,h]anthracene...	18.568	1619900	12.746 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.783	1490189	12.149 ug/ml

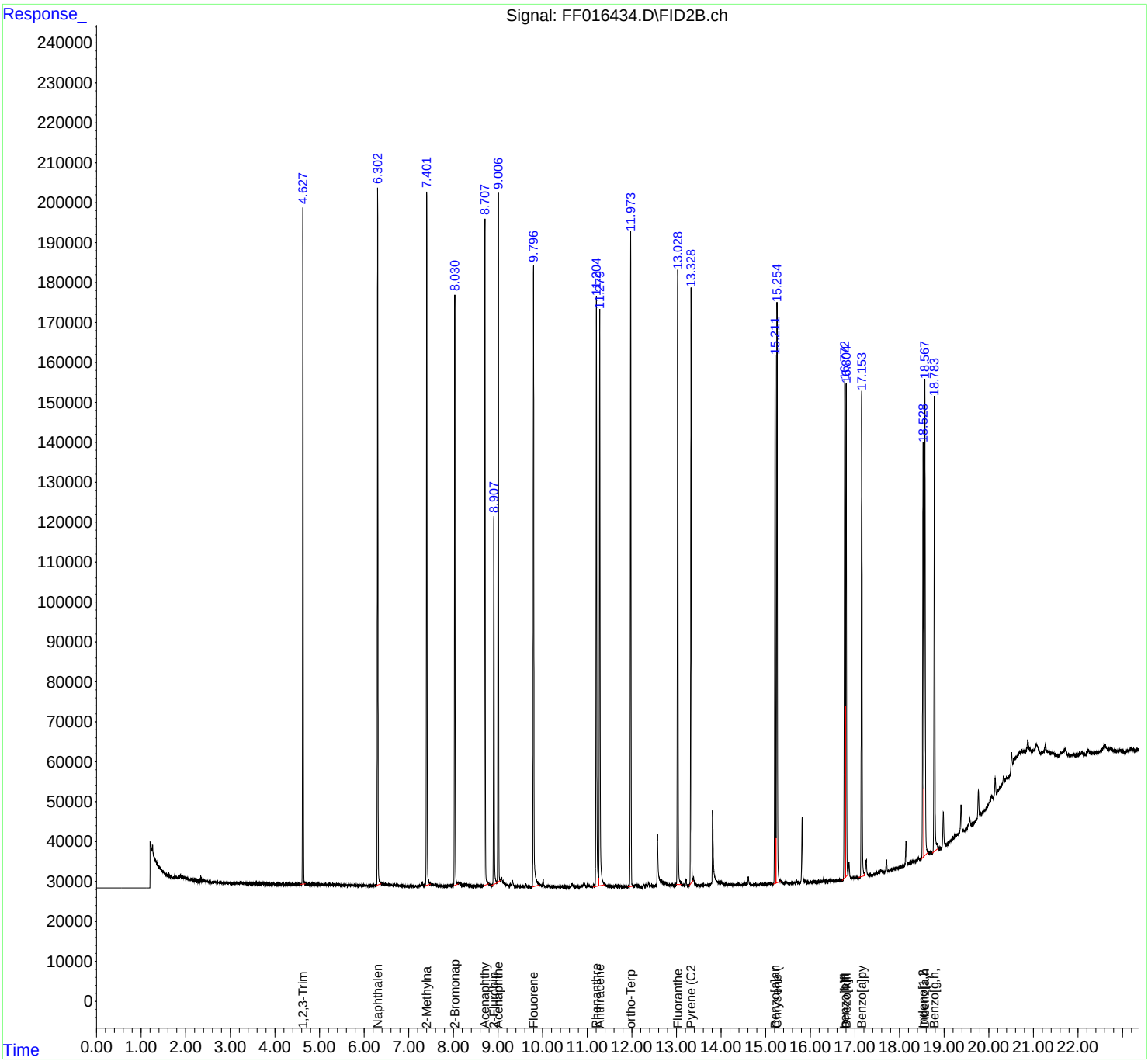
(f)=RT Delta > 1/2 Window (m)=manual int.

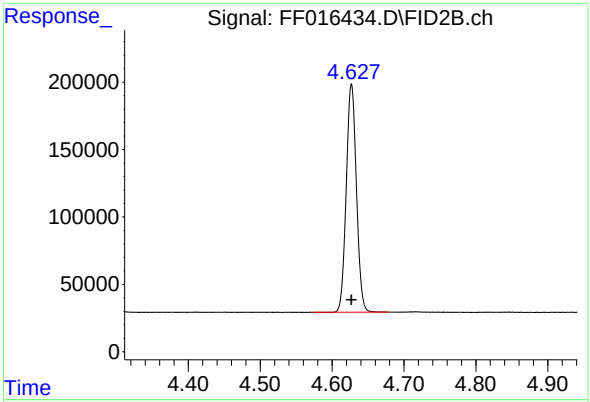
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016434.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 15:28
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 24 16:21:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:21:45 2025
Response via : Initial Calibration
Integrator: ChemStation

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

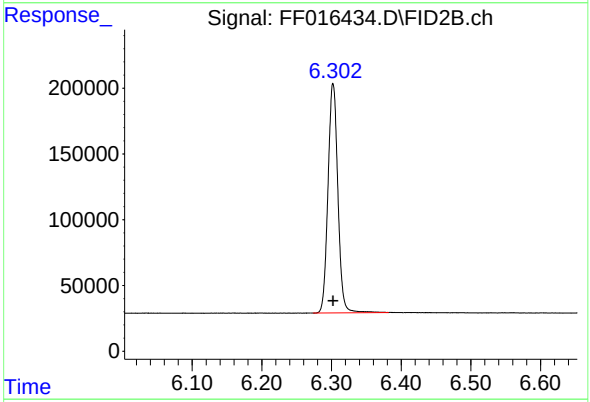




#1 1,2,3-Trimethylbenzene (C10.1)

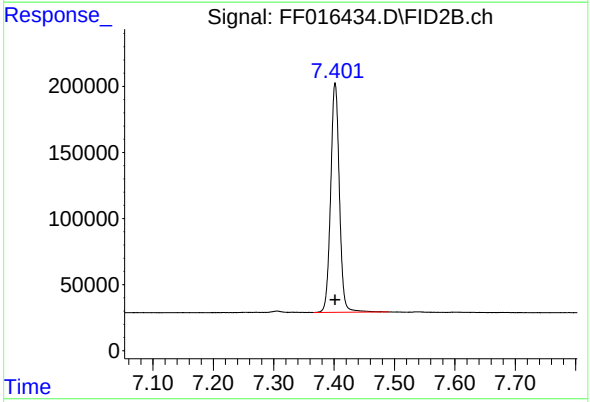
R.T.: 4.627 min
Delta R.T.: 0.000 min
Response: 1662196
Conc: 11.80 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



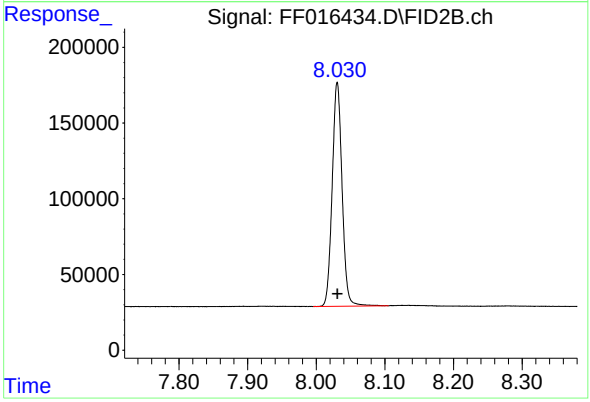
#2 Naphthalene (C11.7)

R.T.: 6.302 min
Delta R.T.: 0.000 min
Response: 1716476
Conc: 11.71 ug/ml



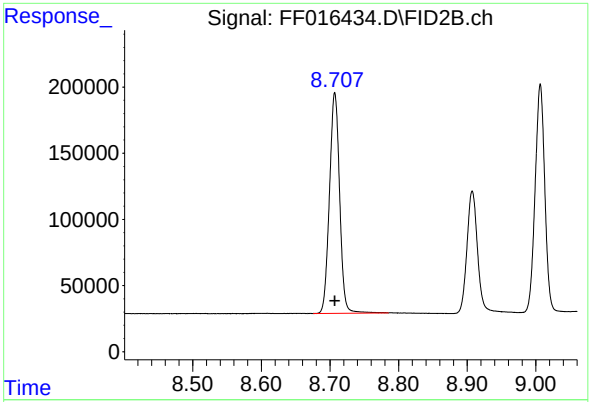
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.402 min
Delta R.T.: 0.000 min
Response: 1742677
Conc: 11.70 ug/ml



#4 2-Bromonaphthalene (SURR)

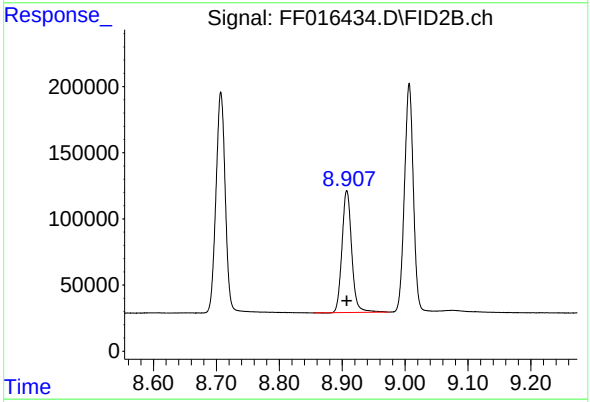
R.T.: 8.031 min
Delta R.T.: 0.000 min
Response: 1481517
Conc: 11.70 ug/ml



#5 Acenaphthylene (C15.06)

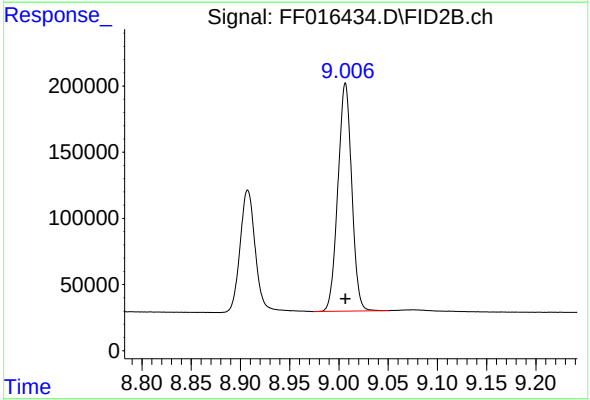
R.T.: 8.707 min
Delta R.T.: 0.000 min
Response: 1714200
Conc: 11.69 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



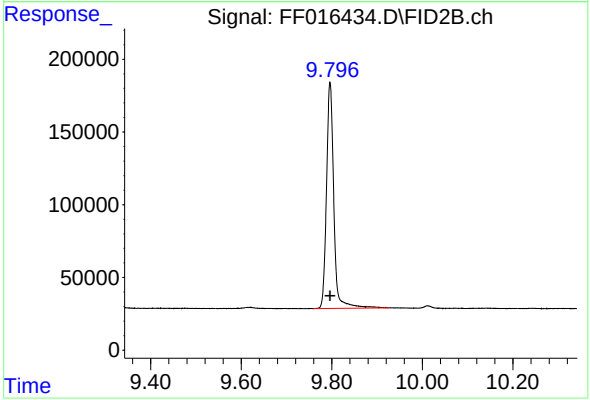
#6 2-Flurobiphenyl (SURR)

R.T.: 8.907 min
Delta R.T.: 0.000 min
Response: 988395
Conc: 11.49 ug/ml



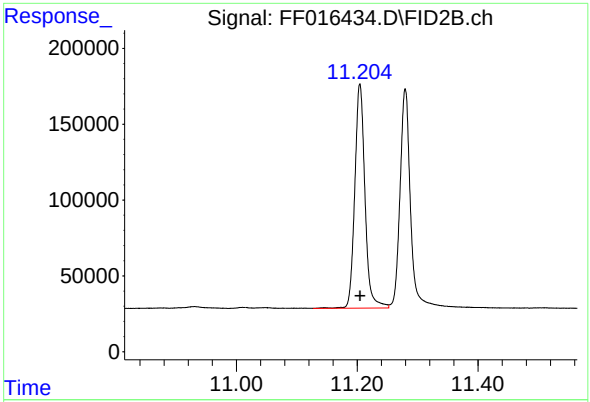
#7 Acenaphthene (C15.5)

R.T.: 9.007 min
Delta R.T.: 0.000 min
Response: 1683417
Conc: 11.62 ug/ml



#8 Flouorene (C16.55)

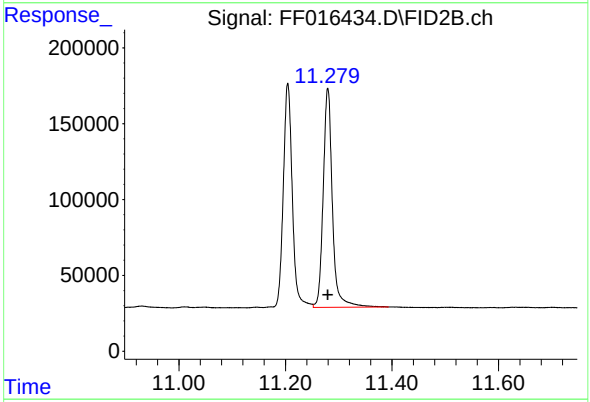
R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 1736875
Conc: 11.83 ug/ml



#9 Phenanthrene (C19.36)

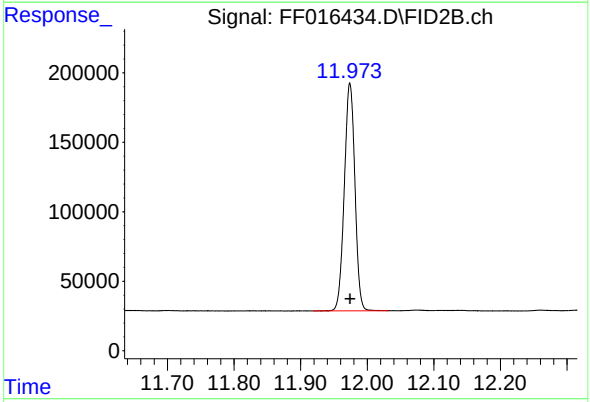
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 1732603
Conc: 11.81 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



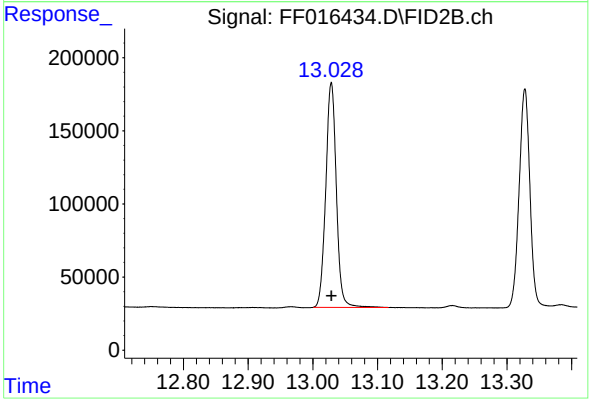
#10 Anthracene (C19.43)

R.T.: 11.280 min
Delta R.T.: 0.000 min
Response: 1733091
Conc: 12.17 ug/ml



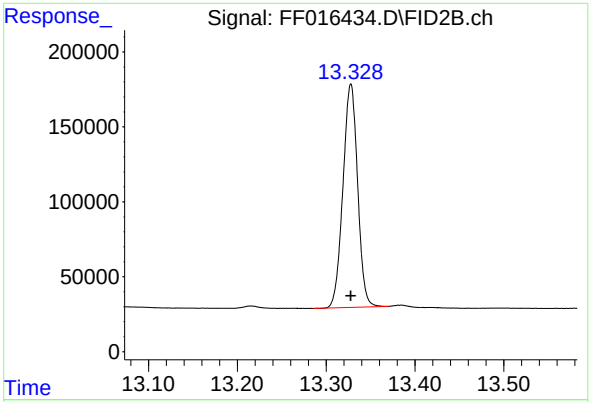
#11 ortho-Terphenyl (SURR)

R.T.: 11.974 min
Delta R.T.: 0.000 min
Response: 1809727
Conc: 11.93 ug/ml



#12 Fluoranthene (C21.85)

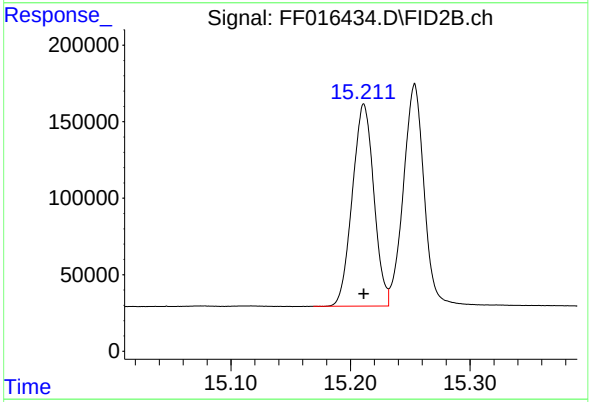
R.T.: 13.029 min
Delta R.T.: 0.000 min
Response: 1749056
Conc: 11.98 ug/ml



#13 Pyrene (C20.8)

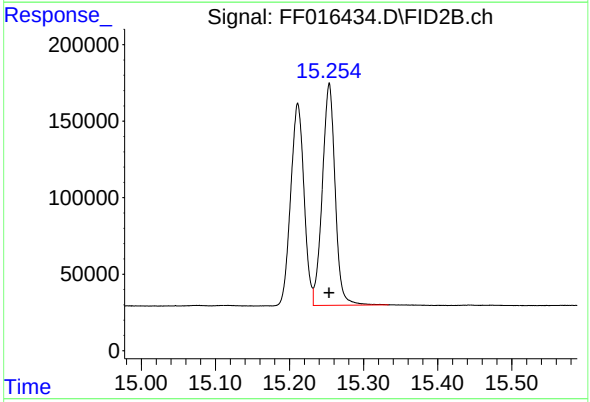
R.T.: 13.328 min
Delta R.T.: 0.000 min
Response: 1709506
Conc: 11.91 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



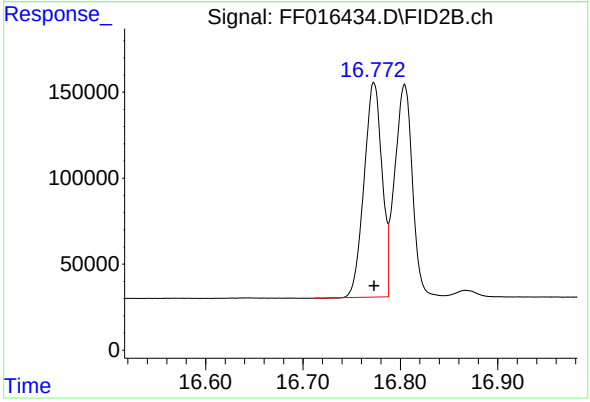
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.211 min
Delta R.T.: 0.000 min
Response: 1649438
Conc: 12.06 ug/ml



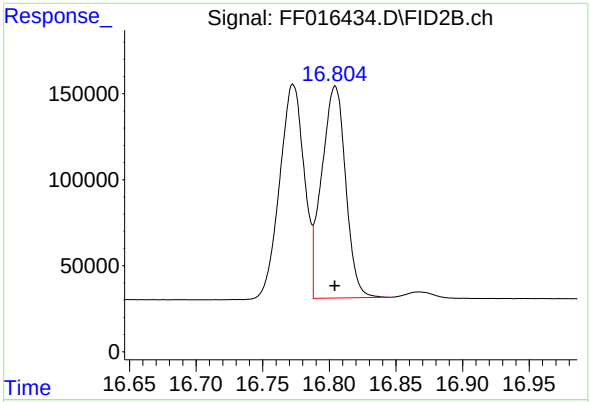
#15 Chrysene (C27.41)

R.T.: 15.254 min
Delta R.T.: 0.000 min
Response: 1745210
Conc: 12.36 ug/ml



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

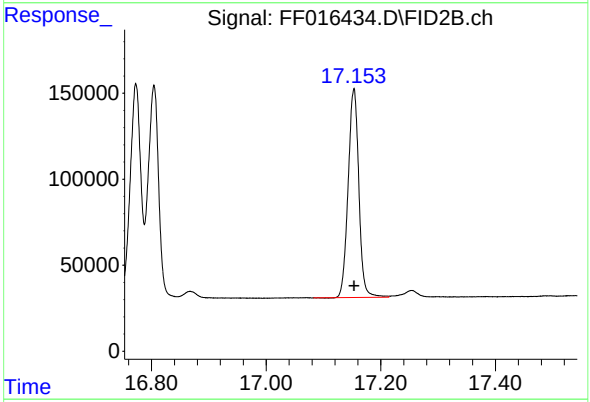
R.T.: 16.773 min
Delta R.T.: 0.000 min
Response: 1594531
Conc: 12.07 ug/ml



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

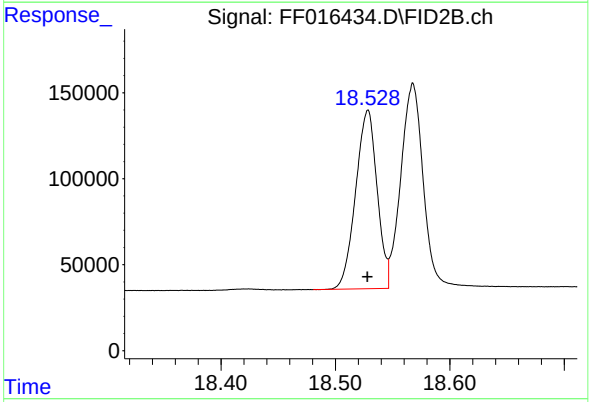
R.T.: 16.804 min
Delta R.T.: 0.000 min
Response: 1540396
Conc: 12.30 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



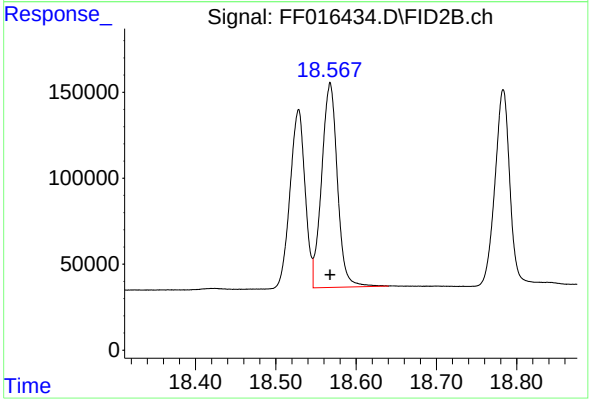
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.153 min
Delta R.T.: 0.000 min
Response: 1570961
Conc: 12.29 ug/ml



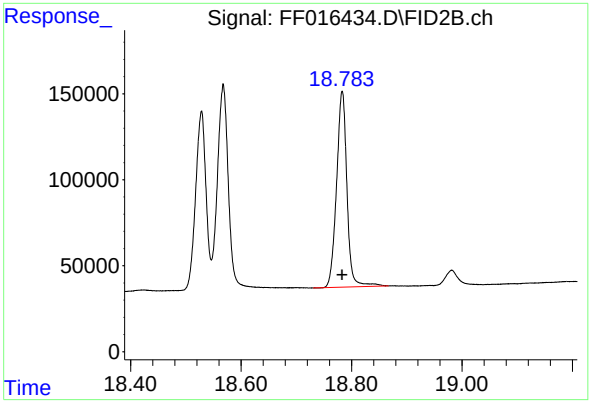
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.528 min
Delta R.T.: 0.000 min
Response: 1351251
Conc: 11.73 ug/ml



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

R.T.: 18.568 min
Delta R.T.: 0.000 min
Response: 1619900
Conc: 12.75 ug/ml



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

R.T.:	18.783 min
Delta R.T.:	0.000 min
Response:	1490189
Conc:	12.15 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016434.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 15:28
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.627	4.574	4.679	BB	169350	1662196	91.85%	4.886%
2	6.302	6.274	6.382	BB	174721	1716476	94.85%	5.045%
3	7.402	7.365	7.490	BB	173280	1742677	96.30%	5.122%
4	8.031	7.995	8.105	BB	147868	1481517	81.86%	4.355%
5	8.707	8.675	8.785	BB	166757	1714200	94.72%	5.039%
6	8.907	8.854	8.974	BV	92086	988395	54.62%	2.905%
7	9.007	8.974	9.050	PV	172736	1683417	93.02%	4.948%
8	9.796	9.759	9.925	BB	154714	1736875	95.97%	5.105%
9	11.205	11.127	11.252	BV	147894	1732603	95.74%	5.093%
10	11.280	11.252	11.394	VB	144671	1733091	95.77%	5.094%
11	11.974	11.919	12.032	BB	163952	1809727	100.00%	5.319%
12	13.029	13.000	13.117	BB	153881	1749056	96.65%	5.141%
13	13.328	13.285	13.370	BV	149122	1709506	94.46%	5.025%
14	15.211	15.169	15.232	BV	132251	1649438	91.14%	4.848%
15	15.254	15.232	15.334	VB	145331	1745210	96.44%	5.130%
16	16.773	16.710	16.788	BV	124790	1594531	88.11%	4.687%
17	16.804	16.788	16.845	VV	123152	1540396	85.12%	4.528%
18	17.153	17.082	17.214	BV	122252	1570961	86.81%	4.618%
19	18.528	18.480	18.546	BV	104420	1351251	74.67%	3.972%
20	18.568	18.546	18.640	VB	118899	1619900	89.51%	4.761%
21	18.783	18.730	18.867	BB	114223	1490189	82.34%	4.380%
			Sum of corrected areas:			34021608		

Aromatic EPH 092425.M Thu Sep 25 00:49:47 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016435.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 15:58
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 24 16:24:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:23:45 2025
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...	8.031	598161	4.775 ug/ml
Spiked Amount	50.000		Recovery =	9.55%
6) S	2-Flurobiphenyl (SURR)	8.908	388157	4.602 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	9.20%
11) S	ortho-Terphenyl (SURR)	11.974	777849	5.102 ug/ml
Spiked Amount	50.000		Recovery =	10.20%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.624	707668	5.020 ug/ml
2) T	Naphthalene (C11.7)	6.301	709232	4.868 ug/ml
3) T	2-Methylnaphthalene (...	7.401	700376	4.757 ug/ml
5) T	Acenaphthylene (C15.06)	8.706	690062	4.762 ug/ml
7) T	Acenaphthene (C15.5)	9.006	686883	4.789 ug/ml
8) T	Flouorene (C16.55)	9.796	675559	4.676 ug/ml
9) T	Phenanthrene (C19.36)	11.204	711069	4.875 ug/ml
10) T	Anthracene (C19.43)	11.279	728208	5.090 ug/ml
12) T	Fluoranthene (C21.85)	13.026	730906	5.005 ug/ml
13) T	Pyrene (C20.8)	13.325	712306	4.971 ug/ml
14) T	Benzo[a]anthracene (C...	15.209	667130	4.901 ug/ml
15) T	Chrysene (C27.41)	15.251	742138	5.203 ug/ml
16) T	benzo[b]fluoranthene ...	16.769	643824	4.900 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.801	642318	5.103 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.150	635965	4.981 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.524	547710	4.803 ug/ml
20) T	Dibenz[a,h]anthracene...	18.565	722079	5.531 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.778	625224	5.077 ug/ml

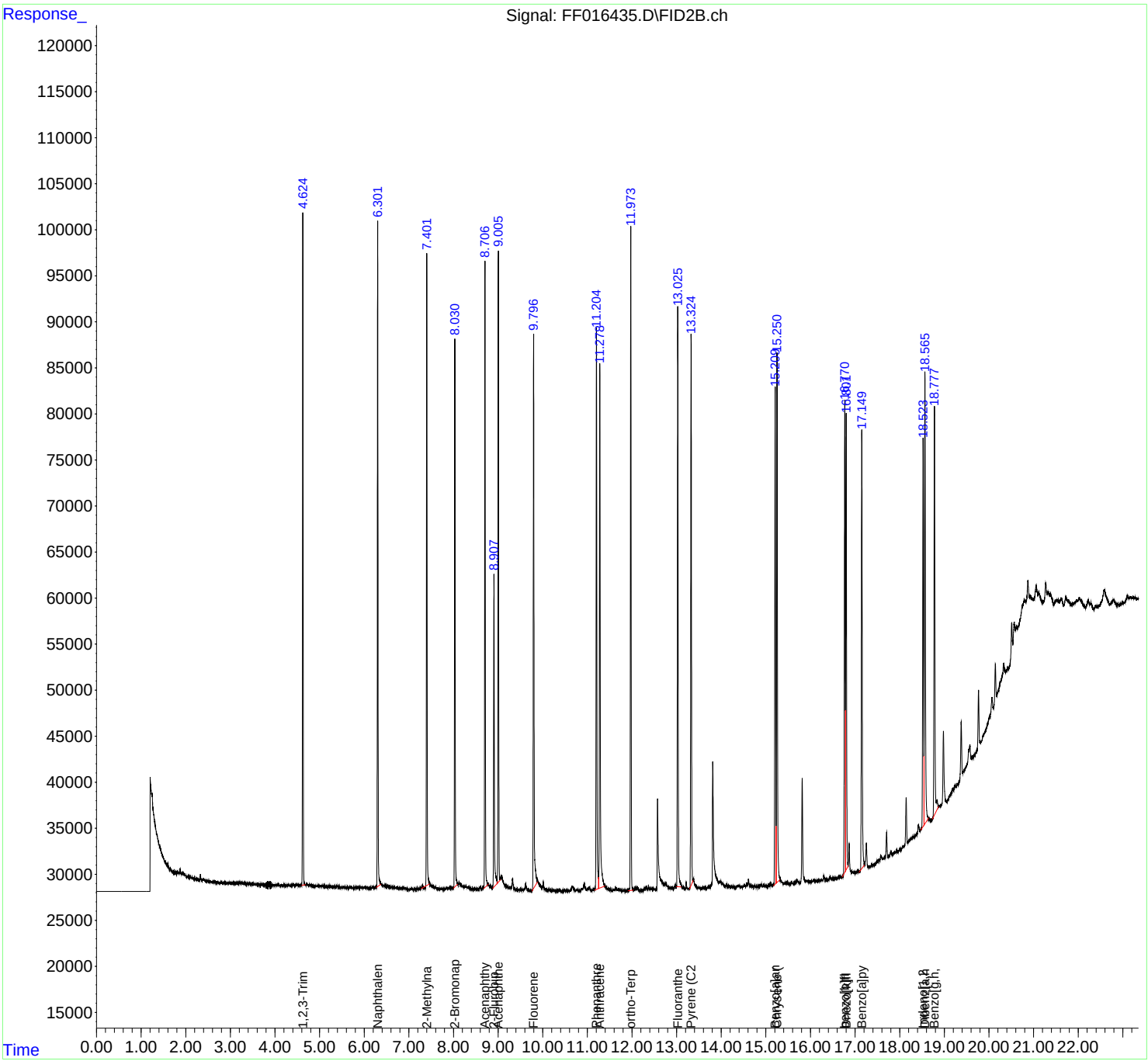
(f)=RT Delta > 1/2 Window (m)=manual int.

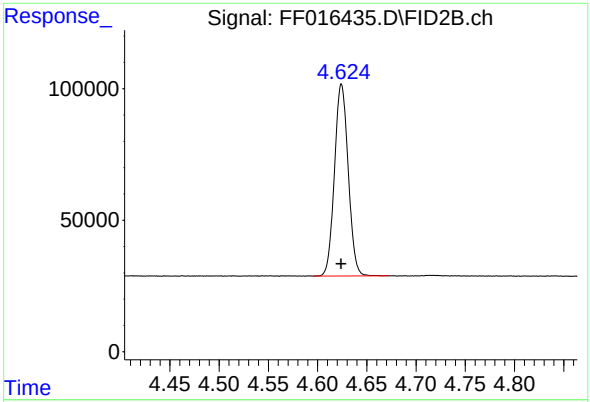
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016435.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 15:58
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 24 16:24:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:23:45 2025
Response via : Initial Calibration
Integrator: ChemStation

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

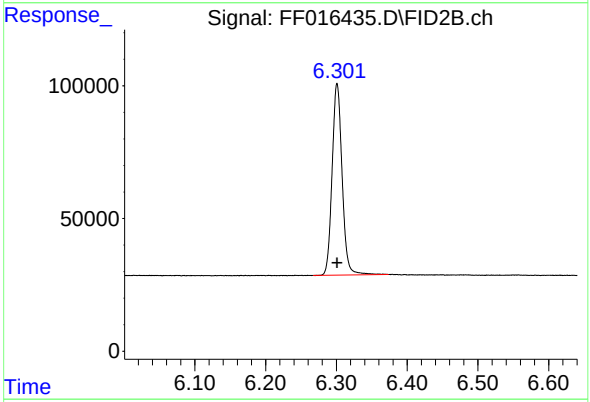




#1 1,2,3-Trimethylbenzene (C10.1)

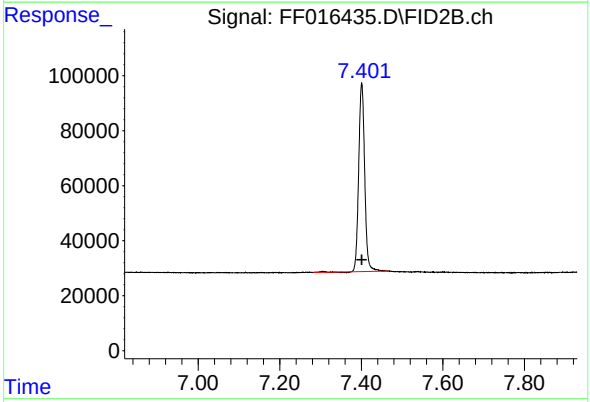
R.T.: 4.624 min
Delta R.T.: 0.000 min
Response: 707668
Conc: 5.02 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



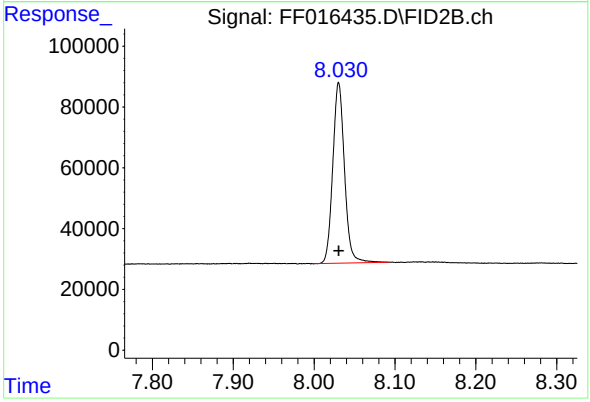
#2 Naphthalene (C11.7)

R.T.: 6.301 min
Delta R.T.: 0.000 min
Response: 709232
Conc: 4.87 ug/ml



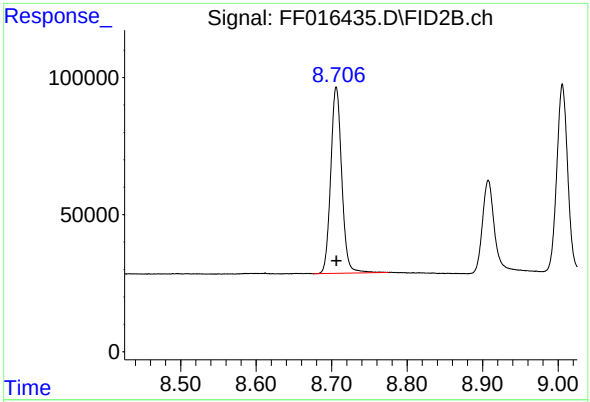
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.401 min
Delta R.T.: 0.000 min
Response: 700376
Conc: 4.76 ug/ml



#4 2-Bromonaphthalene (SURR)

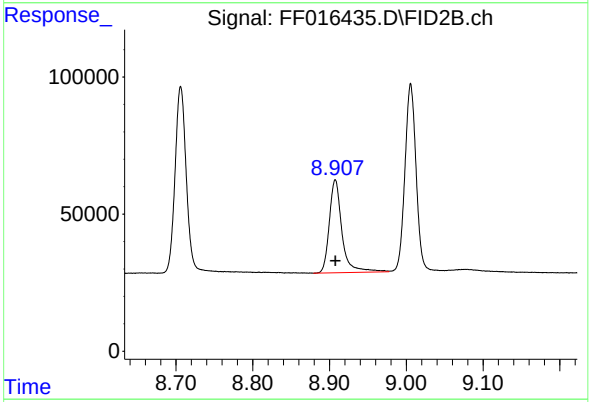
R.T.: 8.031 min
Delta R.T.: 0.000 min
Response: 598161
Conc: 4.78 ug/ml



#5 Acenaphthylene (C15.06)

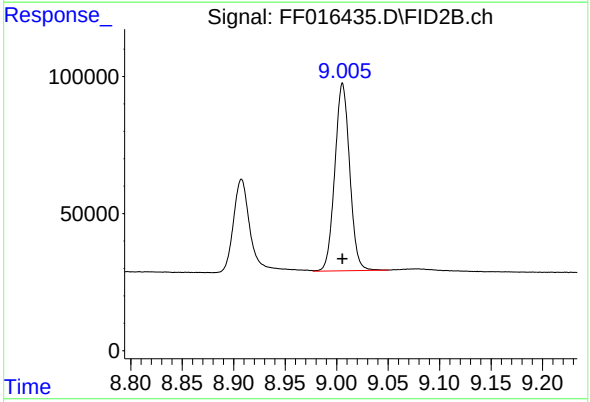
R.T.: 8.706 min
Delta R.T.: 0.000 min
Response: 690062
Conc: 4.76 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



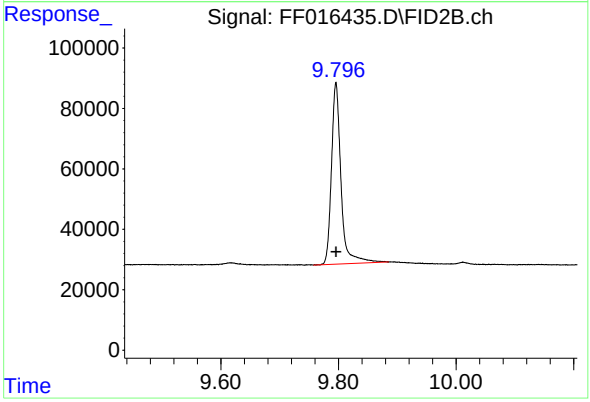
#6 2-Flurobiphenyl (SURR)

R.T.: 8.908 min
Delta R.T.: 0.000 min
Response: 388157
Conc: 4.60 ug/ml



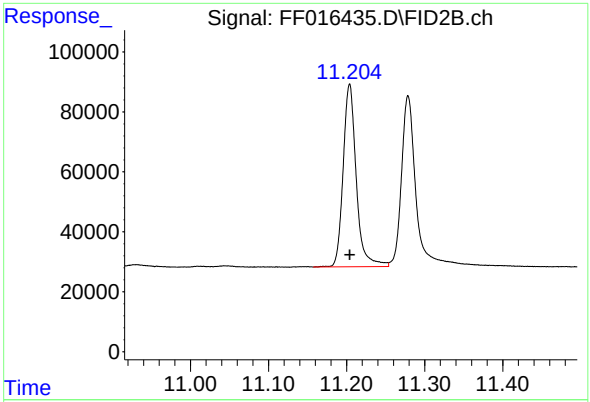
#7 Acenaphthene (C15.5)

R.T.: 9.006 min
Delta R.T.: 0.000 min
Response: 686883
Conc: 4.79 ug/ml



#8 Flouorene (C16.55)

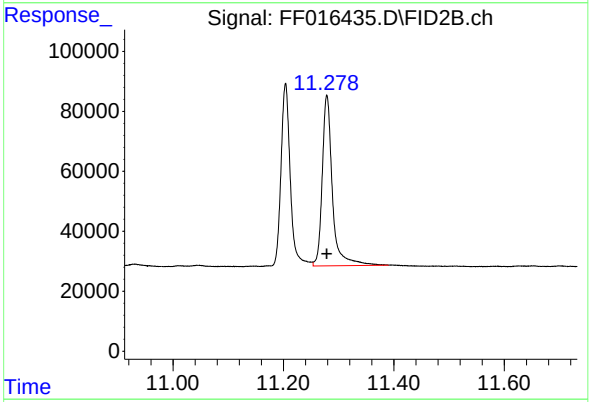
R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 675559
Conc: 4.68 ug/ml



#9 Phenanthrene (C19.36)

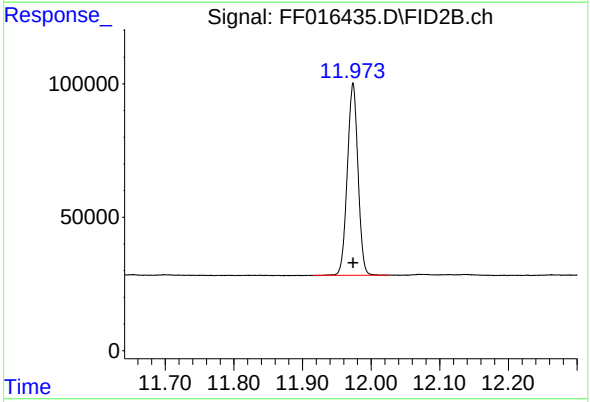
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 711069
Conc: 4.88 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



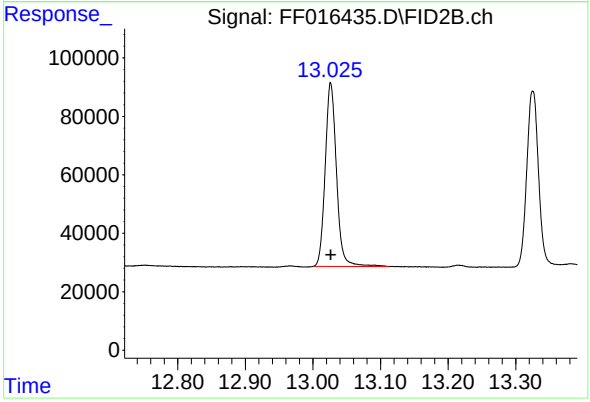
#10 Anthracene (C19.43)

R.T.: 11.279 min
Delta R.T.: 0.000 min
Response: 728208
Conc: 5.09 ug/ml



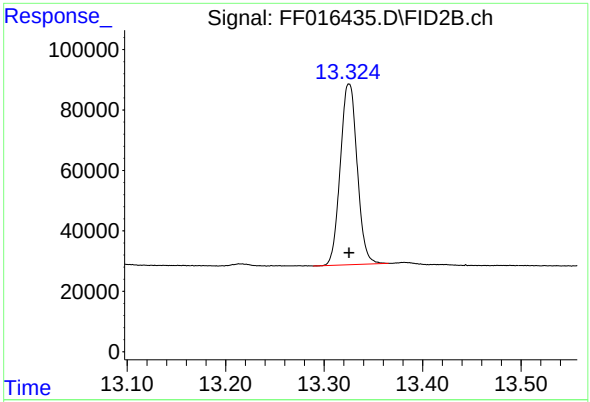
#11 ortho-Terphenyl (SURR)

R.T.: 11.974 min
Delta R.T.: 0.000 min
Response: 777849
Conc: 5.10 ug/ml



#12 Fluoranthene (C21.85)

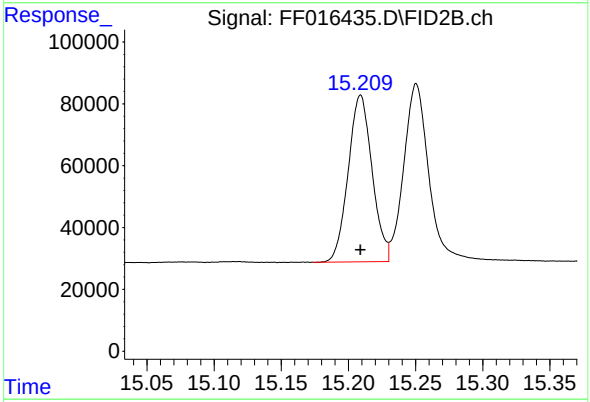
R.T.: 13.026 min
Delta R.T.: 0.000 min
Response: 730906
Conc: 5.00 ug/ml



#13 Pyrene (C20.8)

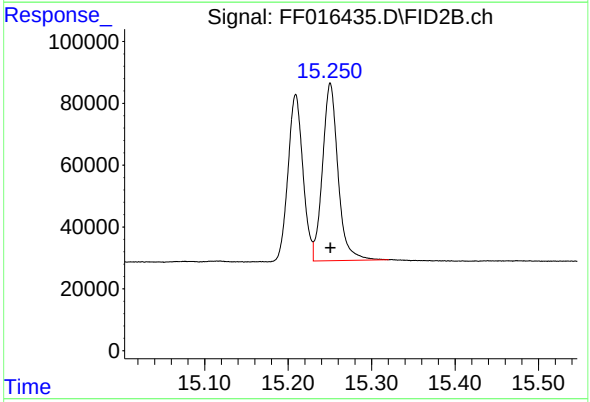
R.T.: 13.325 min
Delta R.T.: 0.000 min
Response: 712306
Conc: 4.97 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



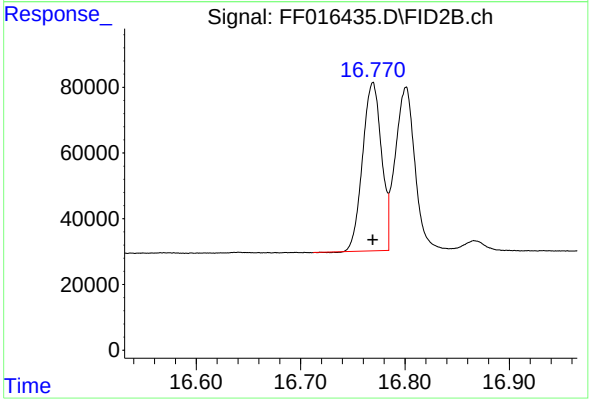
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.209 min
Delta R.T.: 0.000 min
Response: 667130
Conc: 4.90 ug/ml



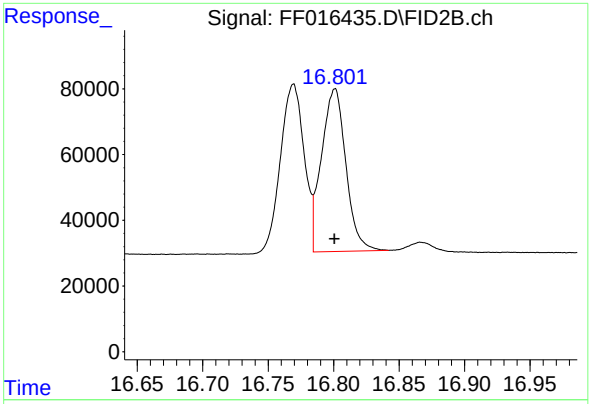
#15 Chrysene (C27.41)

R.T.: 15.251 min
Delta R.T.: 0.000 min
Response: 742138
Conc: 5.20 ug/ml



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

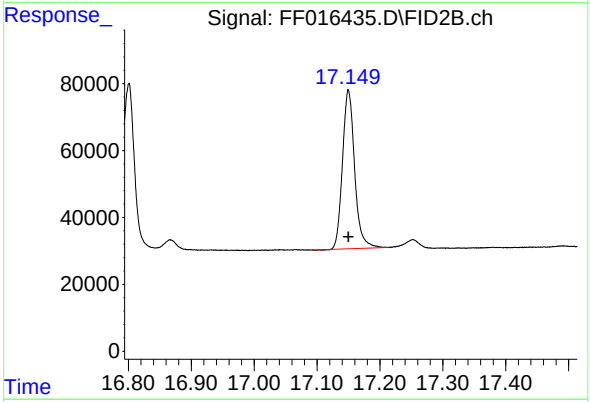
R.T.: 16.769 min
Delta R.T.: 0.000 min
Response: 643824
Conc: 4.90 ug/ml



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

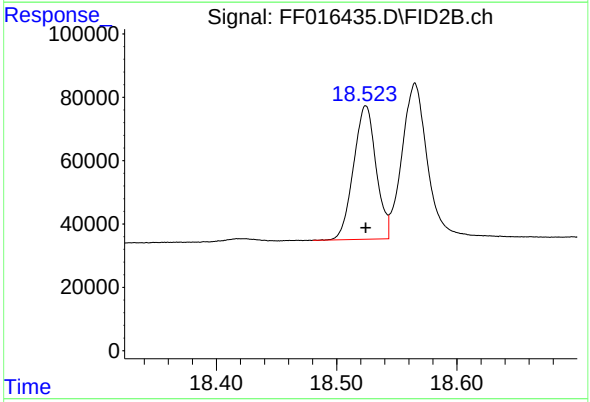
R.T.: 16.801 min
Delta R.T.: 0.000 min
Response: 642318
Conc: 5.10 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



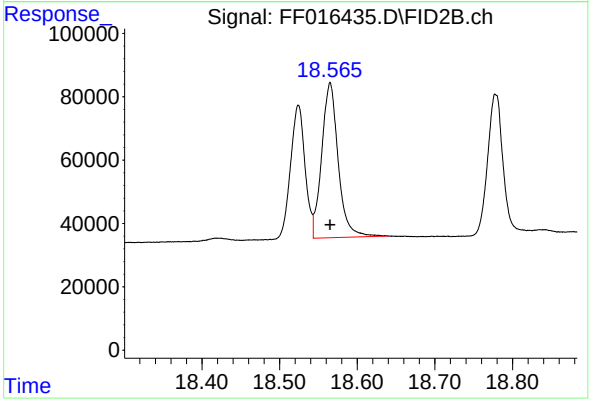
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.150 min
Delta R.T.: 0.000 min
Response: 635965
Conc: 4.98 ug/ml



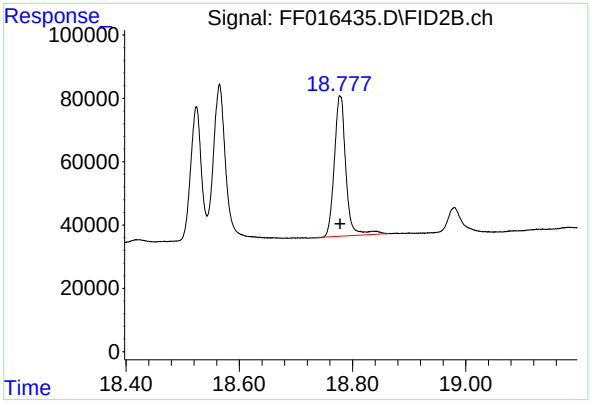
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.524 min
Delta R.T.: 0.000 min
Response: 547710
Conc: 4.80 ug/ml



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

R.T.: 18.565 min
Delta R.T.: 0.000 min
Response: 722079
Conc: 5.53 ug/ml



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

R.T.:	18.778 min
Delta R.T.:	0.000 min
Response:	625224
Conc:	5.08 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016435.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 15:58
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 75 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.624	4.595	4.672	BB	73020	707668	90.98%	5.039%
2	6.301	6.267	6.374	BB	72230	709232	91.18%	5.050%
3	7.401	7.282	7.467	BB	68568	700376	90.04%	4.987%
4	8.031	7.999	8.092	BB	59455	598161	76.90%	4.260%
5	8.706	8.675	8.775	BB	68009	690062	88.71%	4.914%
6	8.908	8.879	8.977	BV	33968	388157	49.90%	2.764%
7	9.006	8.977	9.050	VV	68406	686883	88.31%	4.891%
8	9.796	9.757	9.885	BB	59984	675559	86.85%	4.811%
9	11.204	11.157	11.254	BV	60981	711069	91.41%	5.064%
10	11.279	11.254	11.390	VB	56945	728208	93.62%	5.186%
11	11.974	11.915	12.025	BB	72220	777849	100.00%	5.539%
12	13.026	13.000	13.112	BB	62485	730906	93.96%	5.205%
13	13.325	13.289	13.365	BV	59832	712306	91.57%	5.072%
14	15.209	15.174	15.230	BV	53965	667130	85.77%	4.751%
15	15.251	15.230	15.320	VB	57543	742138	95.41%	5.285%
16	16.769	16.712	16.784	BV	51248	643824	82.77%	4.585%
17	16.801	16.784	16.842	VV	49585	642318	82.58%	4.574%
18	17.150	17.094	17.214	BV	47387	635965	81.76%	4.529%
19	18.524	18.480	18.543	BV	42239	547710	70.41%	3.900%
20	18.565	18.543	18.640	VB	49127	722079	92.83%	5.142%
21	18.778	18.730	18.864	BB	44158	625224	80.38%	4.452%
			Sum of corrected areas:			14042825		

Aromatic EPH 092425.M Thu Sep 25 00:50:32 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016436.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 16:28
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 24 16:38:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
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...	8.030	2211521	17.654 ug/ml
Spiked Amount	50.000		Recovery =	35.31%
6) S	2-Flurobiphenyl (SURR)	8.907	1500863	17.795 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	35.59%
11) S	ortho-Terphenyl (SURR)	11.974	2682324	17.595 ug/ml
Spiked Amount	50.000		Recovery =	35.19%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.624	2465539	17.491 ug/ml
2) T	Naphthalene (C11.7)	6.301	2552694	17.523 ug/ml
3) T	2-Methylnaphthalene (...	7.402	2602818	17.680 ug/ml
5) T	Acenaphthylene (C15.06)	8.707	2564508	17.696 ug/ml
7) T	Acenaphthene (C15.5)	9.007	2527766	17.625 ug/ml
8) T	Flouorene (C16.55)	9.796	2582519	17.877 ug/ml
9) T	Phenanthrene (C19.36)	11.205	2584516	17.719 ug/ml
10) T	Anthracene (C19.43)	11.280	2510342	17.546 ug/ml
12) T	Fluoranthene (C21.85)	13.029	2578506	17.655 ug/ml
13) T	Pyrene (C20.8)	13.328	2529762	17.653 ug/ml
14) T	Benzo[a]anthracene (C...	15.212	2418959	17.771 ug/ml
15) T	Chrysene (C27.41)	15.255	2515757	17.636 ug/ml
16) T	benzo[b]fluoranthene ...	16.775	2326602	17.706 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.806	2231035	17.725 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.155	2275638	17.822 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.530	1991060	17.460 ug/ml
20) T	Dibenz[a,h]anthracene...	18.569	2262342	17.329 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.786	2143636	17.408 ug/ml

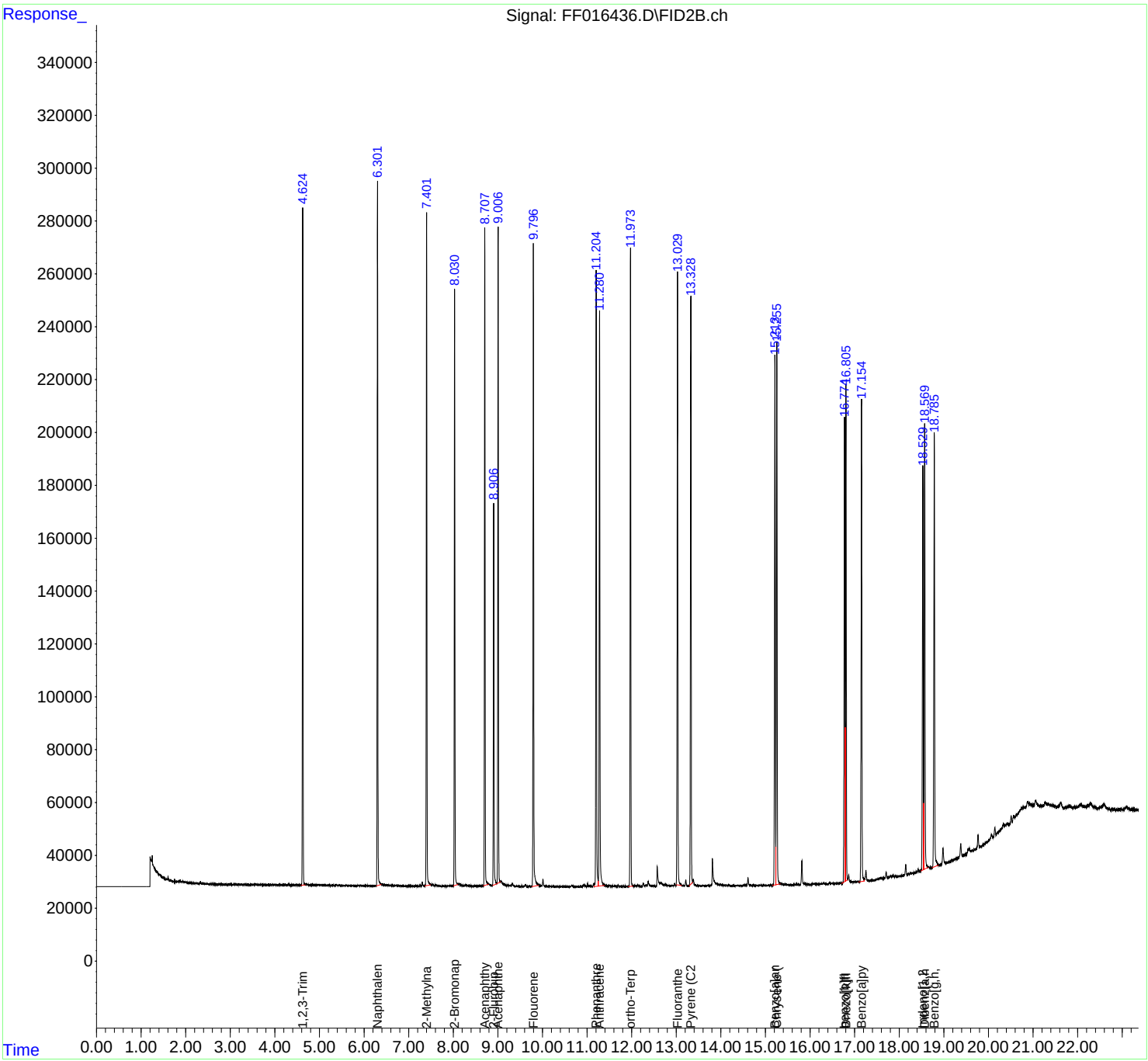
(f)=RT Delta > 1/2 Window (m)=manual int.

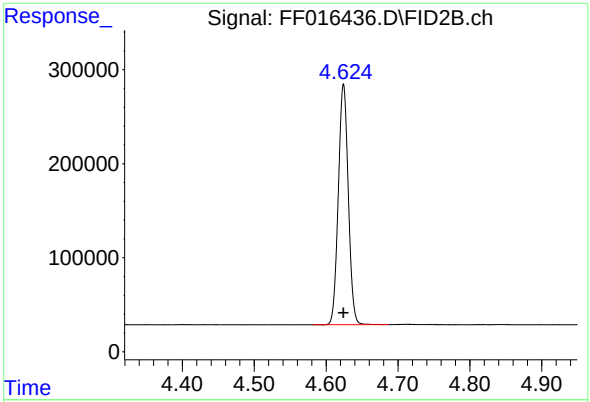
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016436.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 16:28
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 24 16:38:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

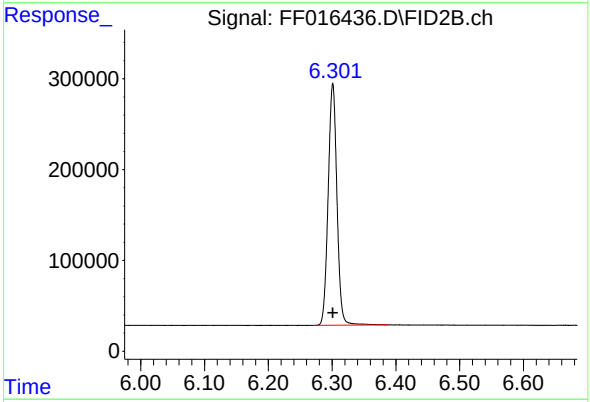




#1 1,2,3-Trimethylbenzene (C10.1)

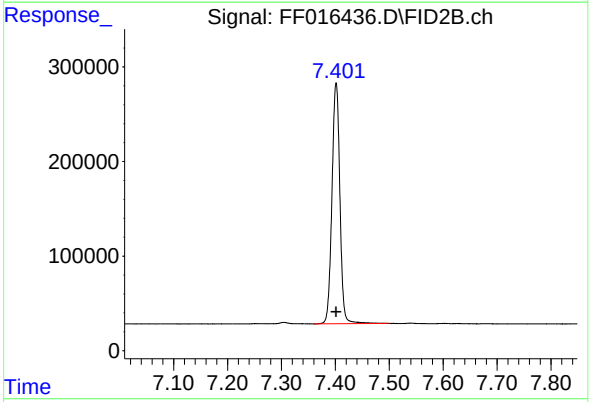
R.T.: 4.624 min
Delta R.T.: 0.000 min
Response: 2465539
Conc: 17.49 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



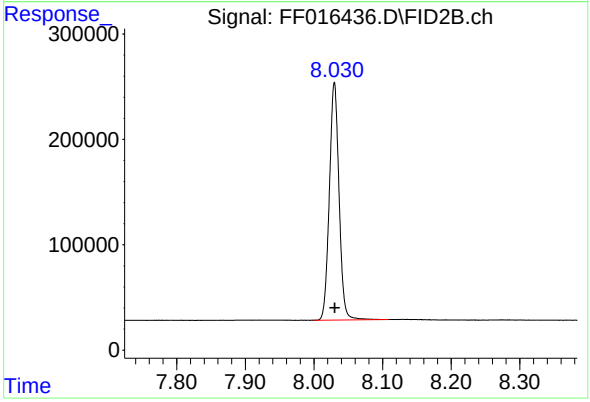
#2 Naphthalene (C11.7)

R.T.: 6.301 min
Delta R.T.: 0.000 min
Response: 2552694
Conc: 17.52 ug/ml



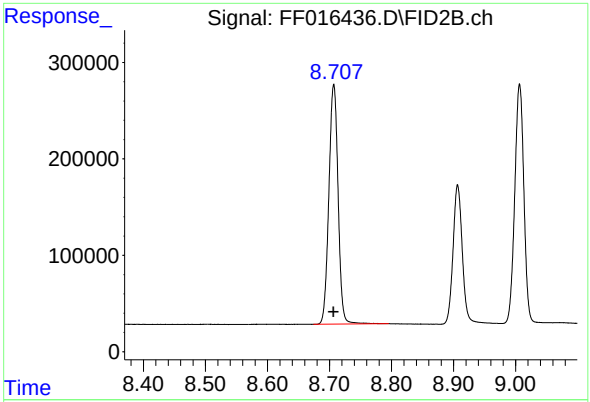
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.402 min
Delta R.T.: 0.000 min
Response: 2602818
Conc: 17.68 ug/ml



#4 2-Bromonaphthalene (SURR)

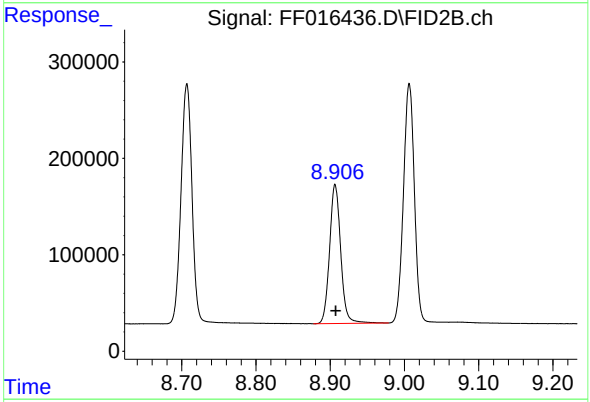
R.T.: 8.030 min
Delta R.T.: 0.000 min
Response: 2211521
Conc: 17.65 ug/ml



#5 Acenaphthylene (C15.06)

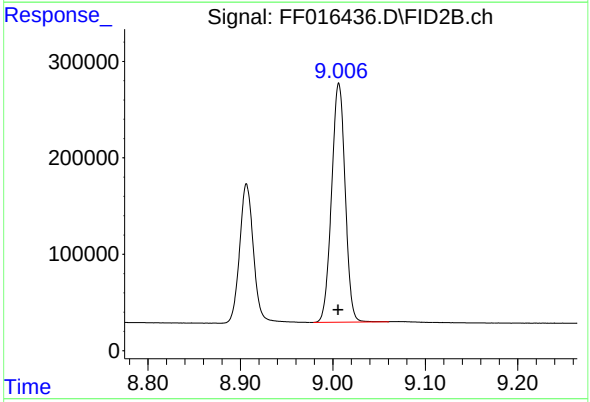
R.T.: 8.707 min
Delta R.T.: 0.000 min
Response: 2564508
Conc: 17.70 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



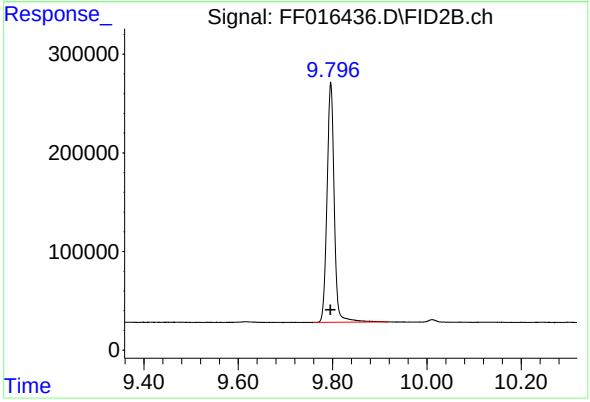
#6 2-Flurobiphenyl (SURR)

R.T.: 8.907 min
Delta R.T.: 0.000 min
Response: 1500863
Conc: 17.80 ug/ml



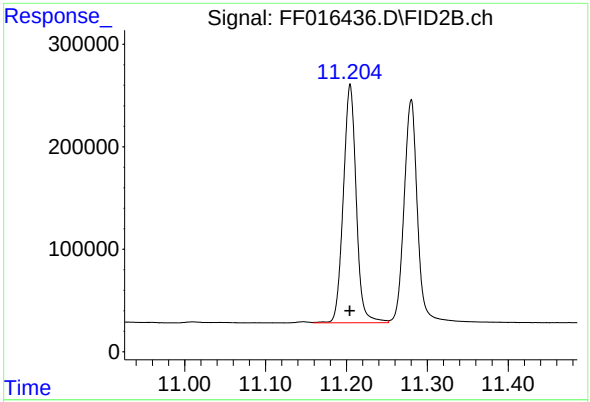
#7 Acenaphthene (C15.5)

R.T.: 9.007 min
Delta R.T.: 0.000 min
Response: 2527766
Conc: 17.63 ug/ml



#8 Flouorene (C16.55)

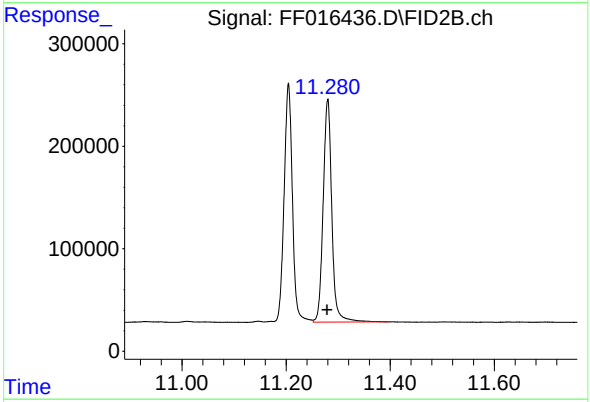
R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 2582519
Conc: 17.88 ug/ml



#9 Phenanthrene (C19.36)

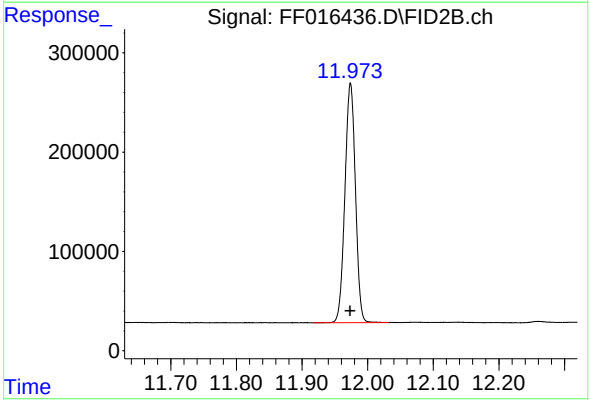
R.T.: 11.205 min
Delta R.T.: 0.000 min
Response: 2584516
Conc: 17.72 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



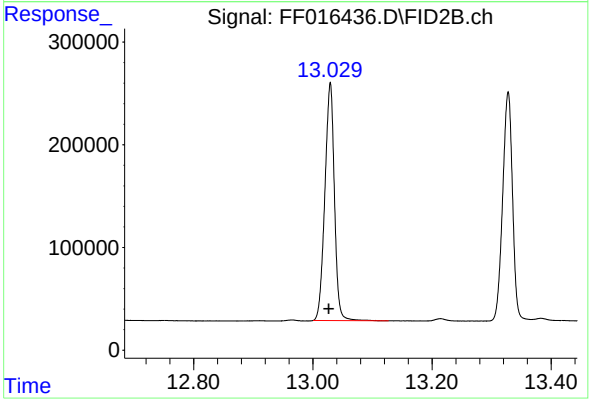
#10 Anthracene (C19.43)

R.T.: 11.280 min
Delta R.T.: 0.001 min
Response: 2510342
Conc: 17.55 ug/ml



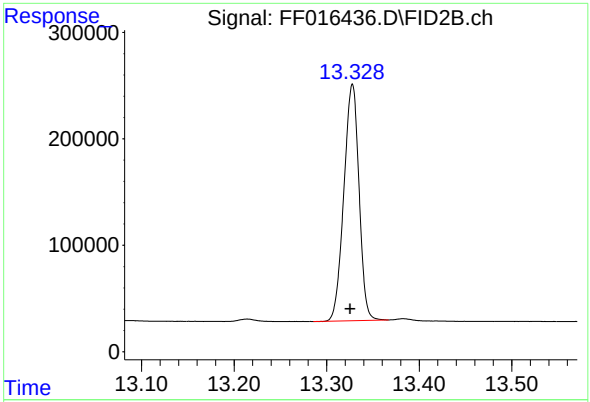
#11 ortho-Terphenyl (SURR)

R.T.: 11.974 min
Delta R.T.: 0.000 min
Response: 2682324
Conc: 17.59 ug/ml



#12 Fluoranthene (C21.85)

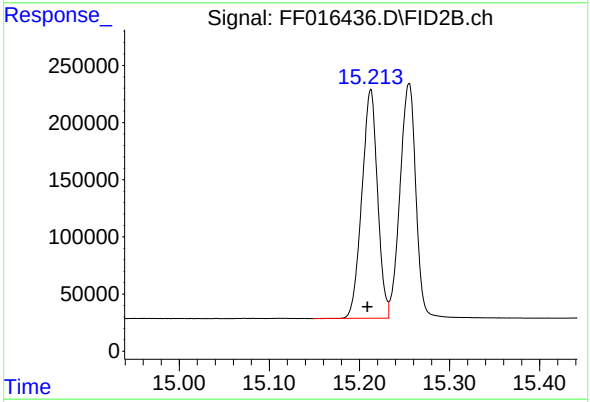
R.T.: 13.029 min
Delta R.T.: 0.003 min
Response: 2578506
Conc: 17.66 ug/ml



#13 Pyrene (C20.8)

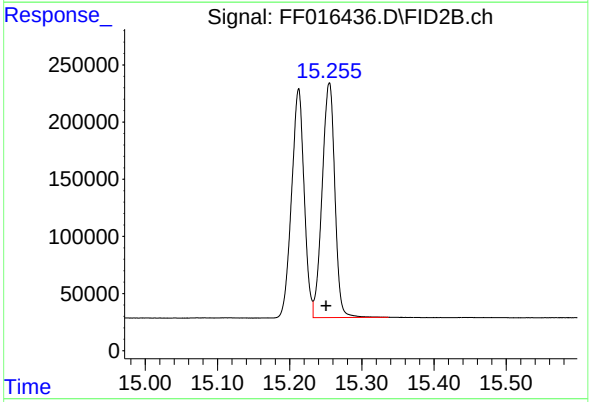
R.T.: 13.328 min
Delta R.T.: 0.002 min
Response: 2529762
Conc: 17.65 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



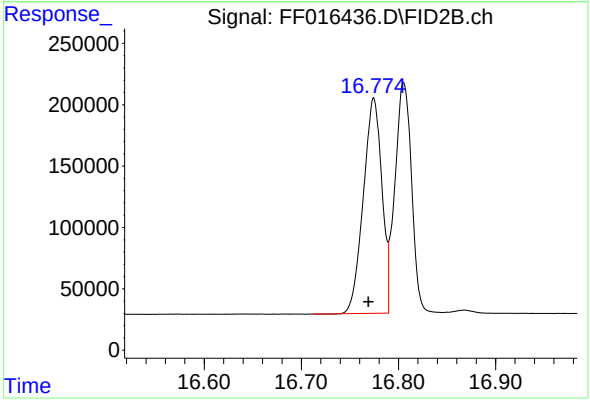
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.212 min
Delta R.T.: 0.003 min
Response: 2418959
Conc: 17.77 ug/ml



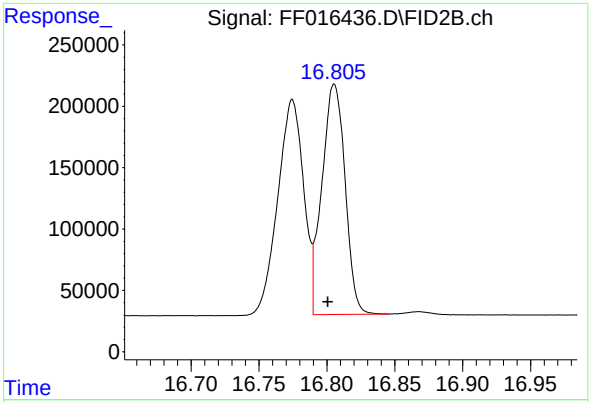
#15 Chrysene (C27.41)

R.T.: 15.255 min
Delta R.T.: 0.004 min
Response: 2515757
Conc: 17.64 ug/ml



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

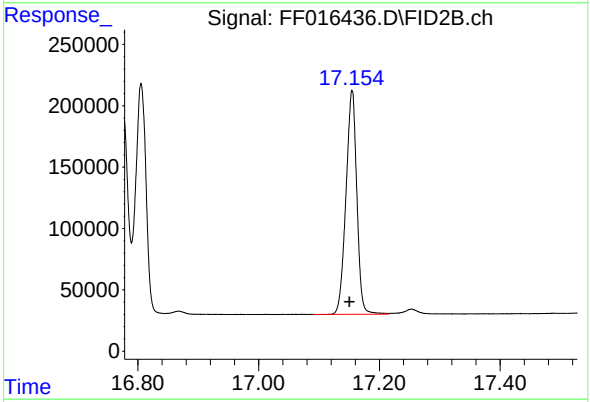
R.T.: 16.775 min
Delta R.T.: 0.005 min
Response: 2326602
Conc: 17.71 ug/ml



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

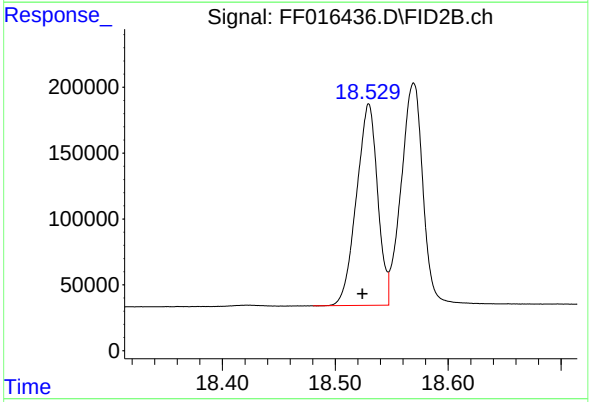
R.T.: 16.806 min
Delta R.T.: 0.005 min
Response: 2231035
Conc: 17.72 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



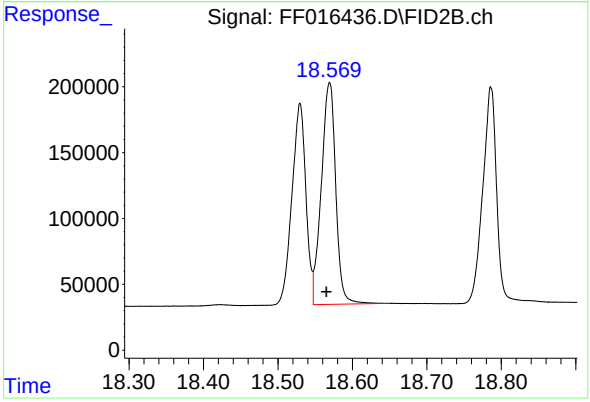
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.155 min
Delta R.T.: 0.005 min
Response: 2275638
Conc: 17.82 ug/ml



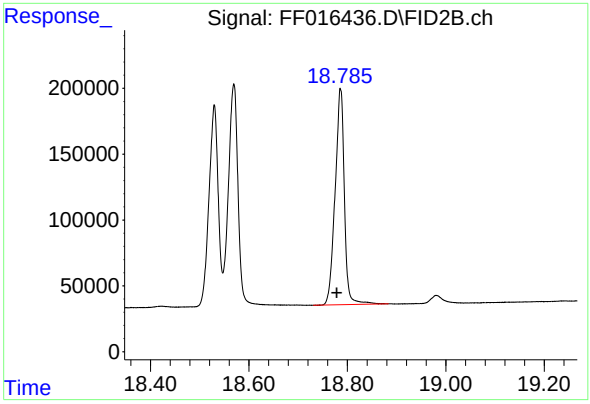
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.530 min
Delta R.T.: 0.005 min
Response: 1991060
Conc: 17.46 ug/ml



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

R.T.: 18.569 min
Delta R.T.: 0.004 min
Response: 2262342
Conc: 17.33 ug/ml



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

R.T.:	18.786 min
Delta R.T.:	0.008 min
Response:	2143636
Conc:	17.41 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016436.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 16:28
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 76 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.624	4.582	4.687	BB	256263	2465539	91.92%	4.925%
2	6.301	6.270	6.389	BB	265760	2552694	95.17%	5.099%
3	7.402	7.359	7.499	BB	255119	2602818	97.04%	5.200%
4	8.030	7.999	8.109	BB	226107	2211521	82.45%	4.418%
5	8.707	8.674	8.795	BB	248902	2564508	95.61%	5.123%
6	8.907	8.877	8.979	BV	143827	1500863	55.95%	2.998%
7	9.007	8.979	9.060	PB	247900	2527766	94.24%	5.050%
8	9.796	9.759	9.919	BB	242350	2582519	96.28%	5.159%
9	11.205	11.159	11.252	VV	232731	2584516	96.35%	5.163%
10	11.280	11.252	11.397	VB	218381	2510342	93.59%	5.015%
11	11.974	11.917	12.032	BB	241602	2682324	100.00%	5.358%
12	13.029	13.000	13.127	BB	231659	2578506	96.13%	5.151%
13	13.328	13.285	13.367	BV	222080	2529762	94.31%	5.054%
14	15.212	15.149	15.233	BV	200219	2418959	90.18%	4.832%
15	15.255	15.233	15.337	VB	206058	2515757	93.79%	5.026%
16	16.775	16.712	16.790	BV	175645	2326602	86.74%	4.648%
17	16.806	16.790	16.845	VV	187634	2231035	83.18%	4.457%
18	17.155	17.090	17.215	BV	183061	2275638	84.84%	4.546%
19	18.530	18.480	18.547	BV	153075	1991060	74.23%	3.977%
20	18.569	18.547	18.649	VB	168371	2262342	84.34%	4.519%
21	18.786	18.730	18.884	BB	164788	2143636	79.92%	4.282%
			Sum of corrected areas:			50058705		

Aromatic EPH 092425.M Thu Sep 25 00:51:20 2025

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

Continuing Calibration Report for SequenceID : FC100125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC069874.D**						
Aliphatic C9-C12	8434215.000	60.000	3.284	6.578	140570.250	133523.254	-5.278
Aliphatic C12-C16	6489004.000	40.000	6.579	9.980	162225.100	156673.343	-3.544
Aliphatic C16-C21	10057972.000	60.000	9.981	13.346	167632.867	179548.834	6.637
Aliphatic C21-C28	12806937.000	80.000	13.347	17.008	160086.713	180941.740	11.526
Aliphatic C28-C40	14869752.000	120.000	17.009	21.963	123914.600	128677.038	3.701
Aliphatic EPH	52657880.000	360.000	3.284	21.963	146271.889	152688.452	4.202

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:	30 Sep 2025 09:04
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069874.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.284	6.578	8434215.000	60.000	ug/ml
Aliphatic C12-C16	6.579	9.980	6489004.000	40.000	ug/ml
Aliphatic C16-C21	9.981	13.346	10057972.000	60.000	ug/ml
Aliphatic C21-C28	13.347	17.008	12806937.000	80.000	ug/ml
Aliphatic C28-C40	17.009	21.963	14869752.000	120.000	ug/ml
Aliphatic EPH	3.284	21.963	52657880.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100125AL\
Data File : FC069874.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 09:04
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 30 12:21:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.646	3635593	19.411 ug/ml
Spiked Amount	50.000		Recovery =	38.82%
12) S	1-chlorooctadecane (S...	13.080	2874748	18.204 ug/ml
Spiked Amount	50.000		Recovery =	36.41%
	Target Compounds			
1) T	n-Nonane (C9)	3.384	2624136	20.470 ug/ml
2) T	n-Decane (C10)	4.456	2809271	21.142 ug/ml
3) T	A~Naphthalene (C11.7)	6.049	3136977	21.132 ug/ml
4) T	n-Dodecane (C12)	6.478	3000808	21.512 ug/ml
5) T	A~2-methylnaphthalene...	7.107	3132111	21.214 ug/ml
6) T	n-Tetradecane (C14)	8.276	3133341	21.126 ug/ml
7) T	n-Hexadecane (C16)	9.880	3355663	20.334 ug/ml
8) T	n-Octadecane (C18)	11.323	3458217	19.404 ug/ml
10) T	n-Eicosane (C20)	12.634	3327993	18.477 ug/ml
11) T	n-Heneicosane (C21)	13.246	3271762	18.145 ug/ml
13) T	n-Docosane (C22)	13.833	3258543	17.936 ug/ml
14) T	n-Tetracosane (C24)	14.937	3253295	17.681 ug/ml
15) T	n-Hexacosane (C26)	15.960	3172605	17.474 ug/ml
16) T	n-Octacosane (C28)	16.908	3122494	17.688 ug/ml
17) T	n-Tricontane (C30)	17.799	3239182	18.506 ug/ml
18) T	n-Dotriacontane (C32)	18.631	3155979	19.507 ug/ml
19) T	n-Tetratriacontane (C34)	19.415	2740926	19.613 ug/ml
20) T	n-Hexatriacontane (C36)	20.155	2194139	19.434 ug/ml
21) T	n-Octatriacontane (C38)	20.912	1872338	19.409 ug/ml
22) T	n-Tetracontane (C40)	21.863	1667188	19.357 ug/ml

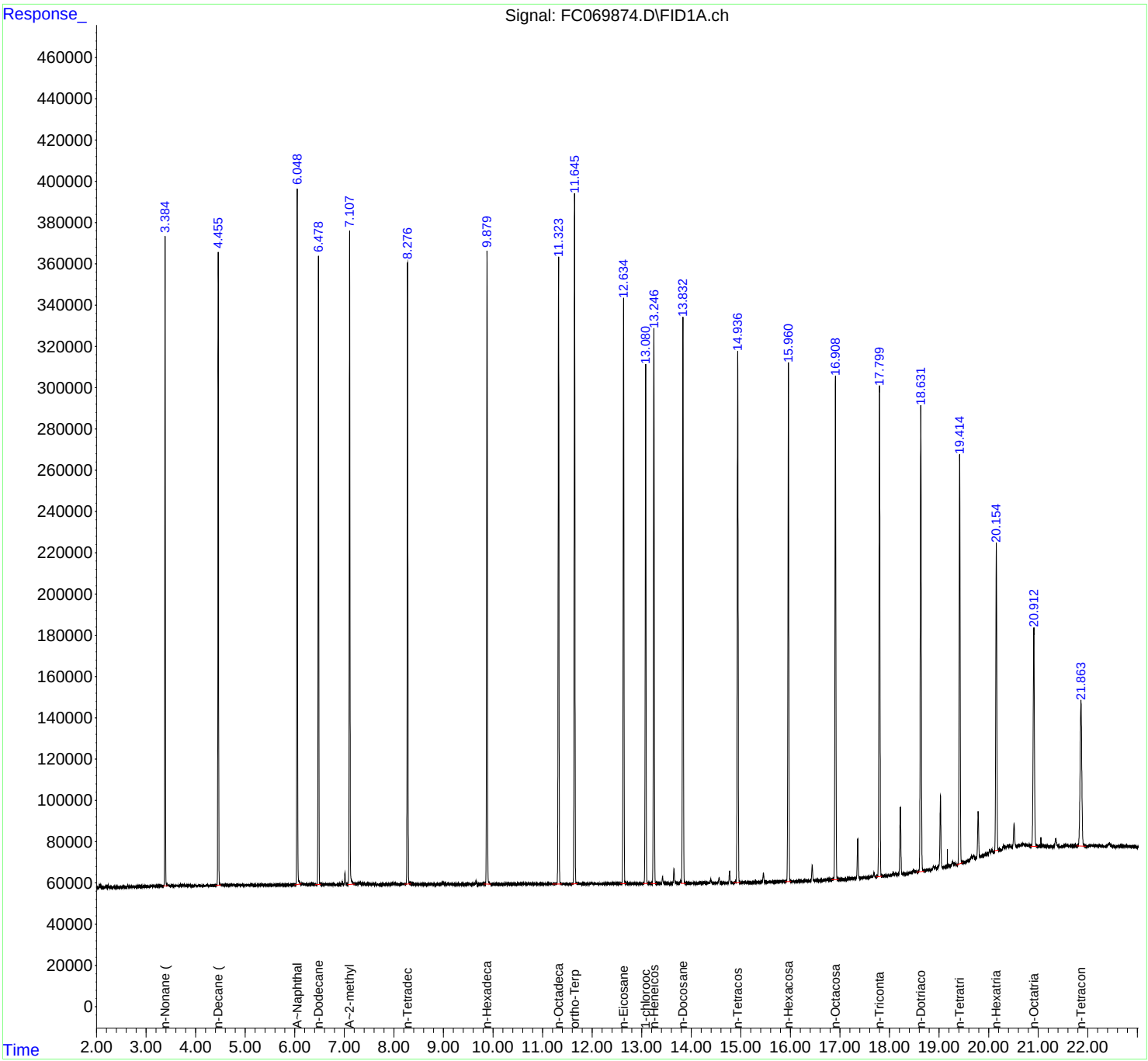
(f)=RT Delta > 1/2 Window (m)=manual int.

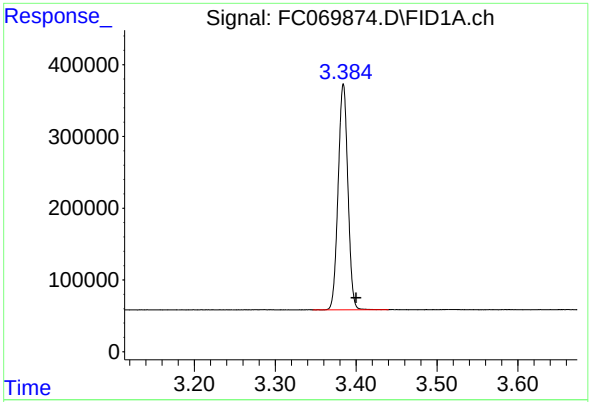
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100125AL\
Data File : FC069874.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 09:04
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 30 12:21:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

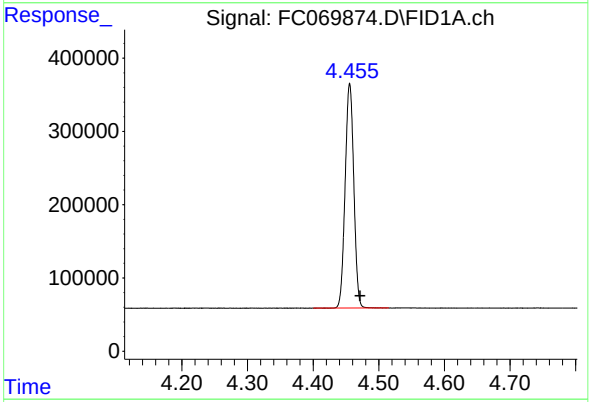




#1 n-Nonane (C9)

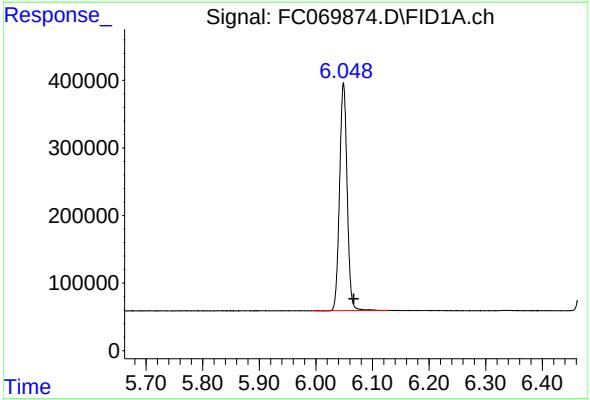
R.T.: 3.384 min
Delta R.T.: -0.016 min
Response: 2624136
Conc: 20.47 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



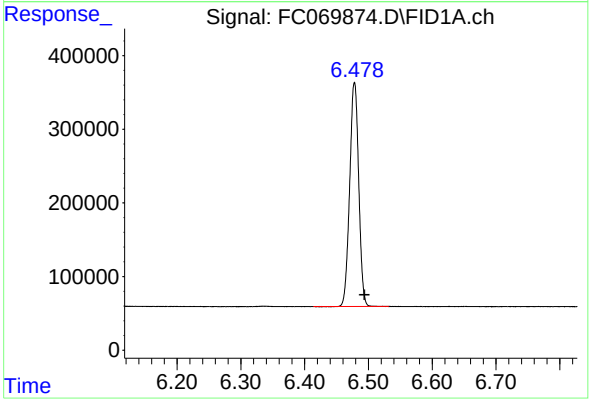
#2 n-Decane (C10)

R.T.: 4.456 min
Delta R.T.: -0.016 min
Response: 2809271
Conc: 21.14 ug/ml



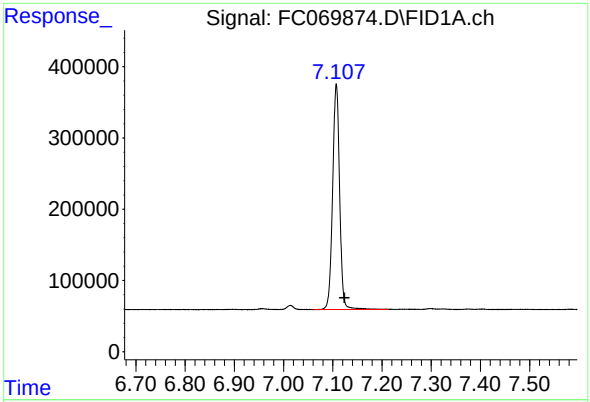
#3 A~Naphthalene (C11.7)

R.T.: 6.049 min
Delta R.T.: -0.018 min
Response: 3136977
Conc: 21.13 ug/ml



#4 n-Dodecane (C12)

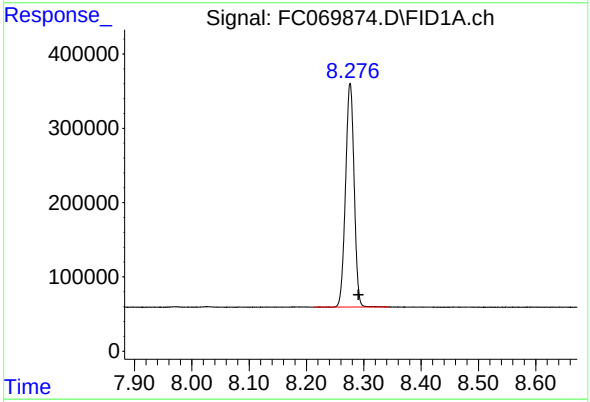
R.T.: 6.478 min
Delta R.T.: -0.016 min
Response: 3000808
Conc: 21.51 ug/ml



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

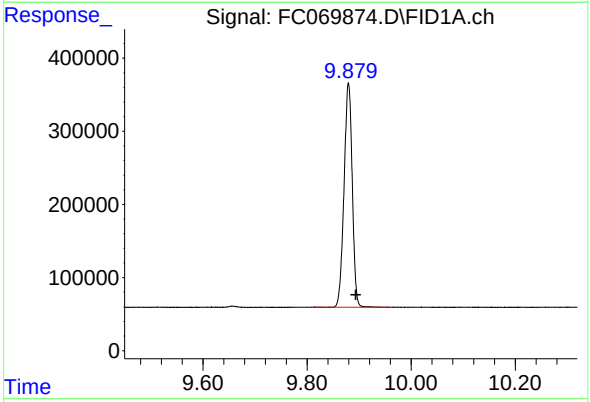
R.T.: 7.107 min
Delta R.T.: -0.016 min
Response: 3132111
Conc: 21.21 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



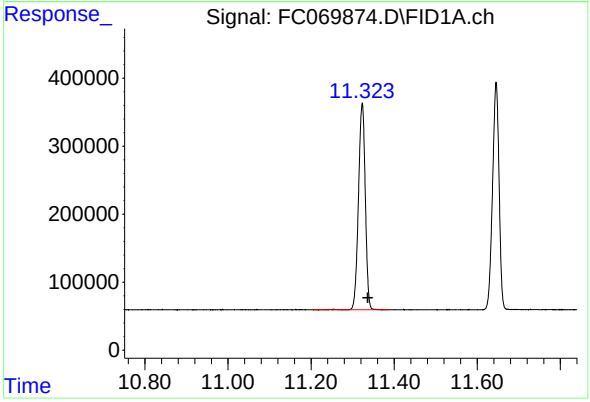
#6 n-Tetradecane (C14)

R.T.: 8.276 min
Delta R.T.: -0.014 min
Response: 3133341
Conc: 21.13 ug/ml



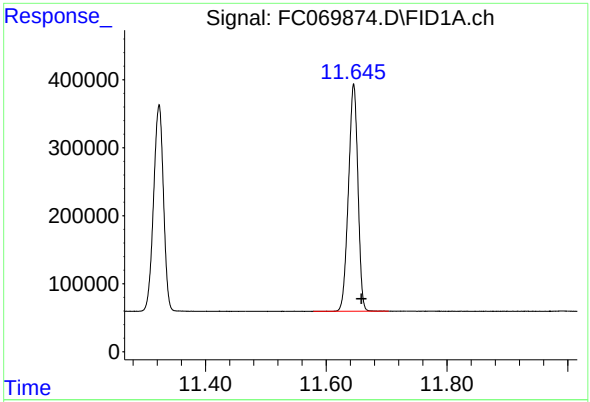
#7 n-Hexadecane (C16)

R.T.: 9.880 min
Delta R.T.: -0.014 min
Response: 3355663
Conc: 20.33 ug/ml



#8 n-Octadecane (C18)

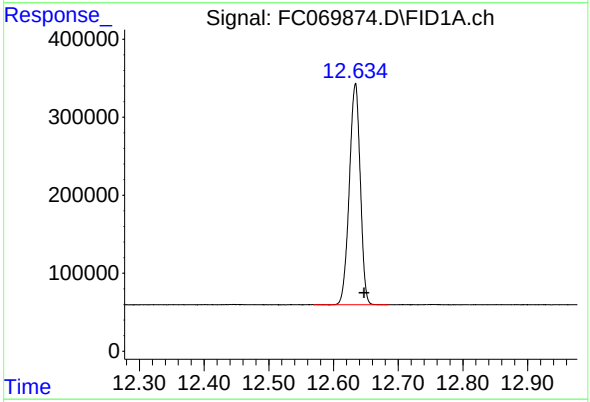
R.T.: 11.323 min
Delta R.T.: -0.013 min
Response: 3458217
Conc: 19.40 ug/ml



#9 ortho-Terphenyl (SURR)

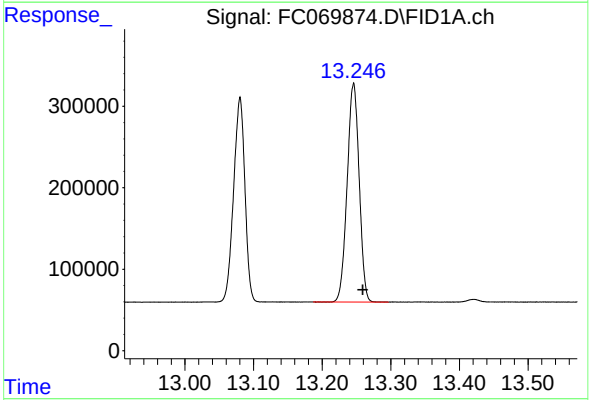
R.T.: 11.646 min
Delta R.T.: -0.013 min
Response: 3635593
Conc: 19.41 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



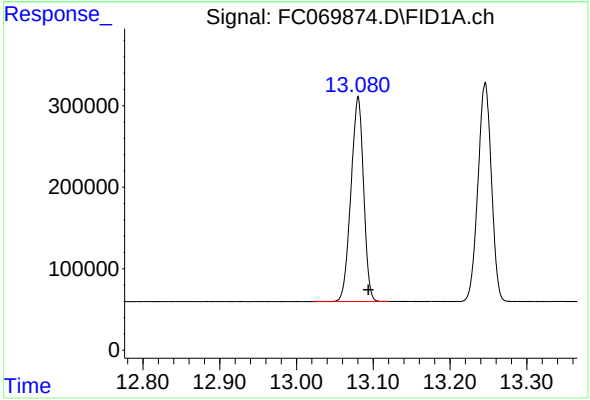
#10 n-Eicosane (C20)

R.T.: 12.634 min
Delta R.T.: -0.014 min
Response: 3327993
Conc: 18.48 ug/ml



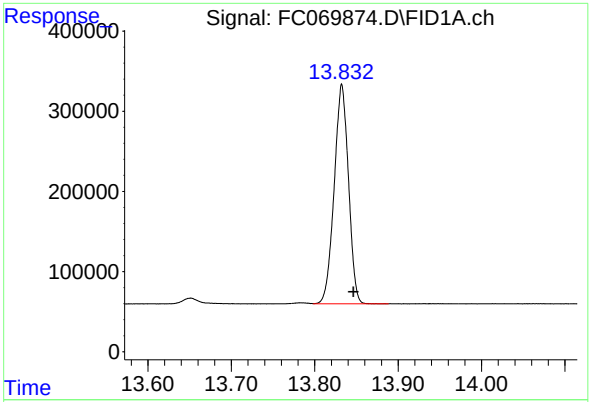
#11 n-Heneicosane (C21)

R.T.: 13.246 min
Delta R.T.: -0.014 min
Response: 3271762
Conc: 18.14 ug/ml



#12 1-chlorooctadecane (SURR)

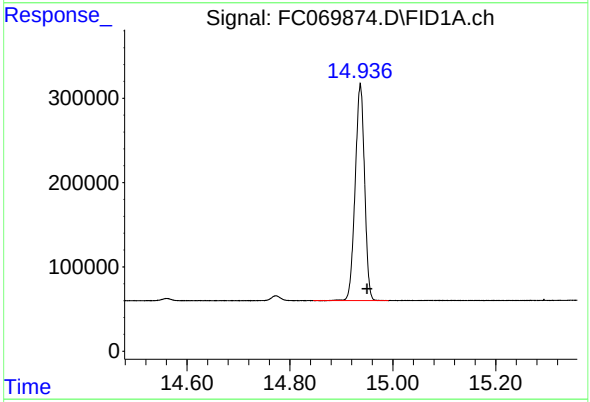
R.T.: 13.080 min
Delta R.T.: -0.013 min
Response: 2874748
Conc: 18.20 ug/ml



#13 n-Docosane (C22)

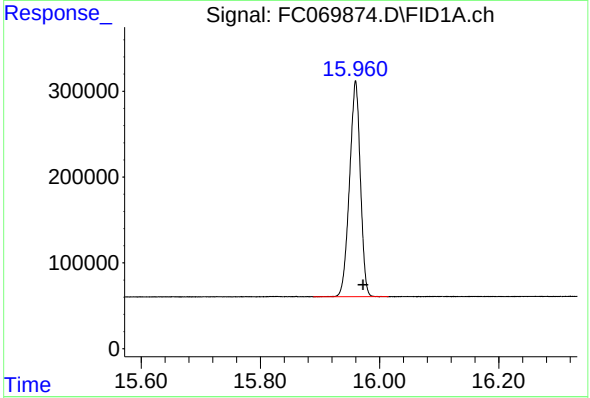
R.T.: 13.833 min
Delta R.T.: -0.014 min
Response: 3258543
Conc: 17.94 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



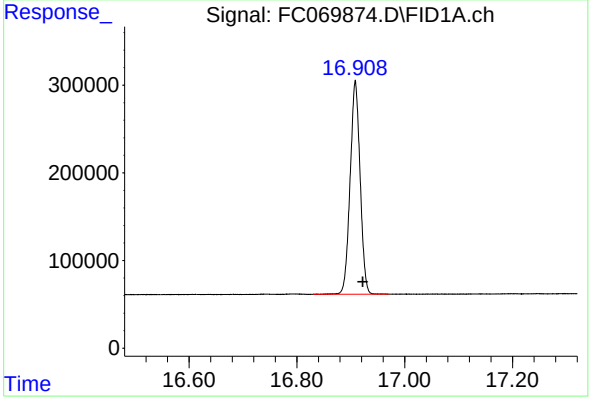
#14 n-Tetracosane (C24)

R.T.: 14.937 min
Delta R.T.: -0.014 min
Response: 3253295
Conc: 17.68 ug/ml



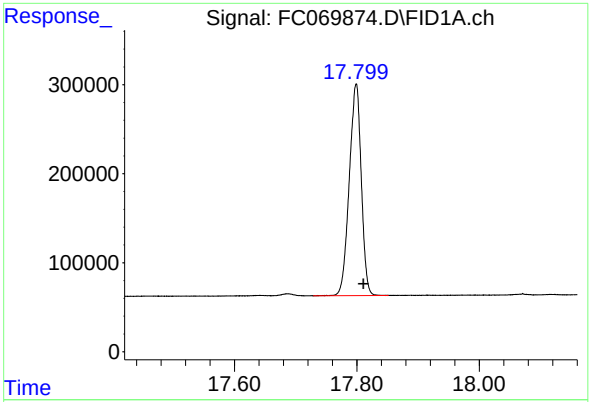
#15 n-Hexacosane (C26)

R.T.: 15.960 min
Delta R.T.: -0.013 min
Response: 3172605
Conc: 17.47 ug/ml



#16 n-Octacosane (C28)

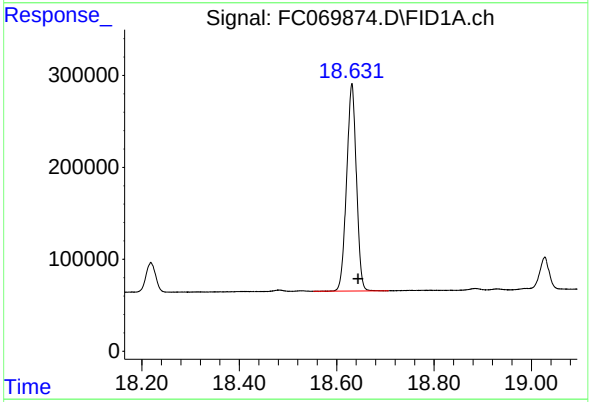
R.T.: 16.908 min
Delta R.T.: -0.014 min
Response: 3122494
Conc: 17.69 ug/ml



#17 n-Tricontane (C30)

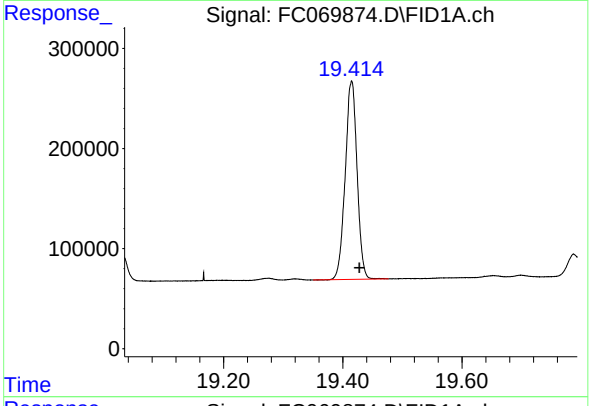
R.T.: 17.799 min
Delta R.T.: -0.012 min
Response: 3239182
Conc: 18.51 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



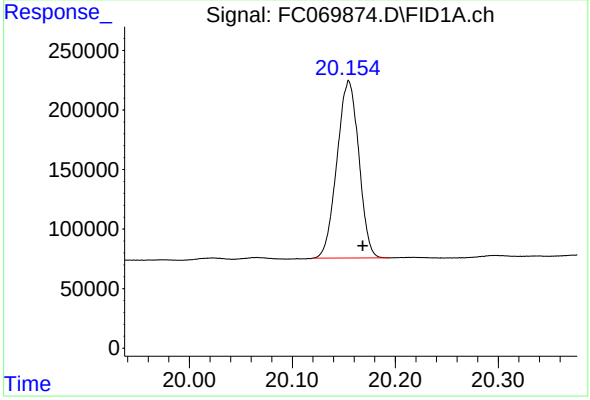
#18 n-Dotriacontane (C32)

R.T.: 18.631 min
Delta R.T.: -0.012 min
Response: 3155979
Conc: 19.51 ug/ml



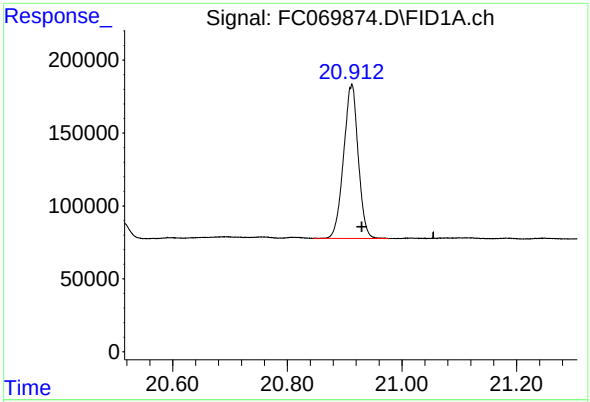
#19 n-Tetratriacontane (C34)

R.T.: 19.415 min
Delta R.T.: -0.013 min
Response: 2740926
Conc: 19.61 ug/ml



#20 n-Hexatriacontane (C36)

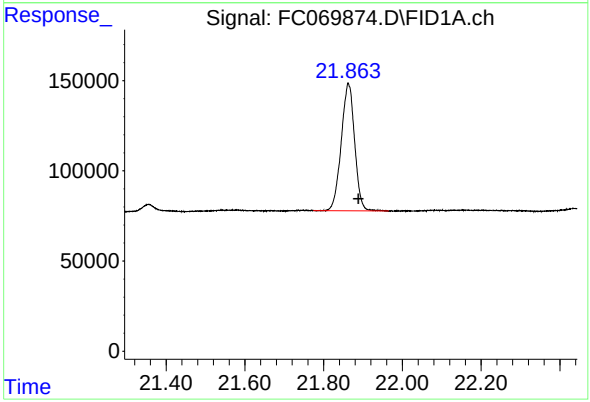
R.T.: 20.155 min
Delta R.T.: -0.014 min
Response: 2194139
Conc: 19.43 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.912 min
Delta R.T.: -0.018 min
Response: 1872338
Conc: 19.41 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



#22 n-Tetracontane (C40)

R.T.: 21.863 min
Delta R.T.: -0.025 min
Response: 1667188
Conc: 19.36 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100125AL\
Data File : FC069874.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 09:04
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 092325.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	3.384	3.347	3.440	BB	314194	2624136	72.18%	4.010%
2	4.456	4.400	4.515	BB	306518	2809271	77.27%	4.293%
3	6.049	5.995	6.128	BB	336998	3136977	86.29%	4.794%
4	6.478	6.413	6.532	BB	304615	3000808	82.54%	4.586%
5	7.107	7.060	7.213	BB	316545	3132111	86.15%	4.786%
6	8.276	8.212	8.343	BB	301461	3133341	86.19%	4.788%
7	9.880	9.812	9.957	BB	305668	3355663	92.30%	5.128%
8	11.323	11.205	11.387	BB	304598	3458217	95.12%	5.285%
9	11.646	11.578	11.703	BB	334379	3635593	100.00%	5.556%
10	12.634	12.568	12.685	BB	283030	3327993	91.54%	5.086%
11	13.080	13.022	13.120	BB	251240	2874748	79.07%	4.393%
12	13.246	13.187	13.297	BB	267221	3271762	89.99%	5.000%
13	13.833	13.798	13.888	VB	274028	3258543	89.63%	4.980%
14	14.937	14.845	14.992	BB	256999	3253295	89.48%	4.972%
15	15.960	15.888	16.015	BB	252139	3172605	87.27%	4.848%
16	16.908	16.830	16.970	BB	243560	3122494	85.89%	4.772%
17	17.799	17.728	17.852	BB	237652	3239182	89.10%	4.950%
18	18.631	18.552	18.707	BB	226526	3155979	86.81%	4.823%
19	19.415	19.350	19.477	BB	198612	2740926	75.39%	4.189%
20	20.155	20.120	20.193	BV	149157	2194139	60.35%	3.353%
21	20.912	20.845	20.977	BB	104958	1872338	51.50%	2.861%
22	21.863	21.773	21.965	BB	70387	1667188	45.86%	2.548%

Sum of corrected areas: 65437308

Aliphatic EPH 092325.M Tue Sep 30 12:25:48 2025

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

Continuing Calibration Report for SequenceID : FC100125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC069882.D**						
Aliphatic C9-C12	8667968.000	60.000	3.284	6.578	144466.133	133523.254	-8.195
Aliphatic C12-C16	6739650.000	40.000	6.579	9.980	168491.250	156673.343	-7.543
Aliphatic C16-C21	10280195.000	60.000	9.981	13.346	171336.583	179548.834	4.574
Aliphatic C21-C28	12718137.000	80.000	13.347	17.008	158976.713	180941.740	12.139
Aliphatic C28-C40	14047588.000	120.000	17.009	21.963	117063.233	128677.038	9.026
Aliphatic EPH	52453538.000	360.000	3.284	21.963	145704.272	152688.452	4.574

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:	30 Sep 2025 14:50
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069882.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.284	6.578	8667968.000	60.000	ug/ml
Aliphatic C12-C16	6.579	9.980	6739650.000	40.000	ug/ml
Aliphatic C16-C21	9.981	13.346	10280195.000	60.000	ug/ml
Aliphatic C21-C28	13.347	17.008	12718137.000	80.000	ug/ml
Aliphatic C28-C40	17.009	21.963	14047588.000	120.000	ug/ml
Aliphatic EPH	3.284	21.963	52453538.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100125AL\
Data File : FC069882.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 14:50
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 01 02:09:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.644	3704406	19.778 ug/ml
Spiked Amount 50.000		Recovery =	39.56%
12) S 1-chlorooctadecane (S...	13.079	2917767	18.476 ug/ml
Spiked Amount 50.000		Recovery =	36.95%
Target Compounds			
1) T n-Nonane (C9)	3.385	2687261	20.963 ug/ml
2) T n-Decane (C10)	4.456	2886626	21.724 ug/ml
3) T A~Naphthalene (C11.7)	6.049	3235971	21.799 ug/ml
4) T n-Dodecane (C12)	6.478	3094081	22.180 ug/ml
5) T A~2-methylnaphthalene...	7.107	3234007	21.904 ug/ml
6) T n-Tetradecane (C14)	8.275	3255543	21.950 ug/ml
7) T n-Hexadecane (C16)	9.879	3484107	21.112 ug/ml
8) T n-Octadecane (C18)	11.322	3561155	19.982 ug/ml
10) T n-Eicosane (C20)	12.633	3401002	18.883 ug/ml
11) T n-Heneicosane (C21)	13.246	3318038	18.401 ug/ml
13) T n-Docosane (C22)	13.832	3287588	18.096 ug/ml
14) T n-Tetracosane (C24)	14.936	3247966	17.652 ug/ml
15) T n-Hexacosane (C26)	15.958	3128263	17.230 ug/ml
16) T n-Octacosane (C28)	16.909	3054320	17.302 ug/ml
17) T n-Tricontane (C30)	17.798	3150798	18.001 ug/ml
18) T n-Dotriacontane (C32)	18.630	3023653	18.689 ug/mlm
19) T n-Tetratriacontane (C34)	19.414	2575218	18.427 ug/ml
20) T n-Hexatriacontane (C36)	20.154	2026294	17.948 ug/ml
21) T n-Octatriacontane (C38)	20.913	1726312	17.895 ug/mlm
22) T n-Tetracontane (C40)	21.861	1545313	17.942 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100125AL\
Data File : FC069882.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 14:50
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

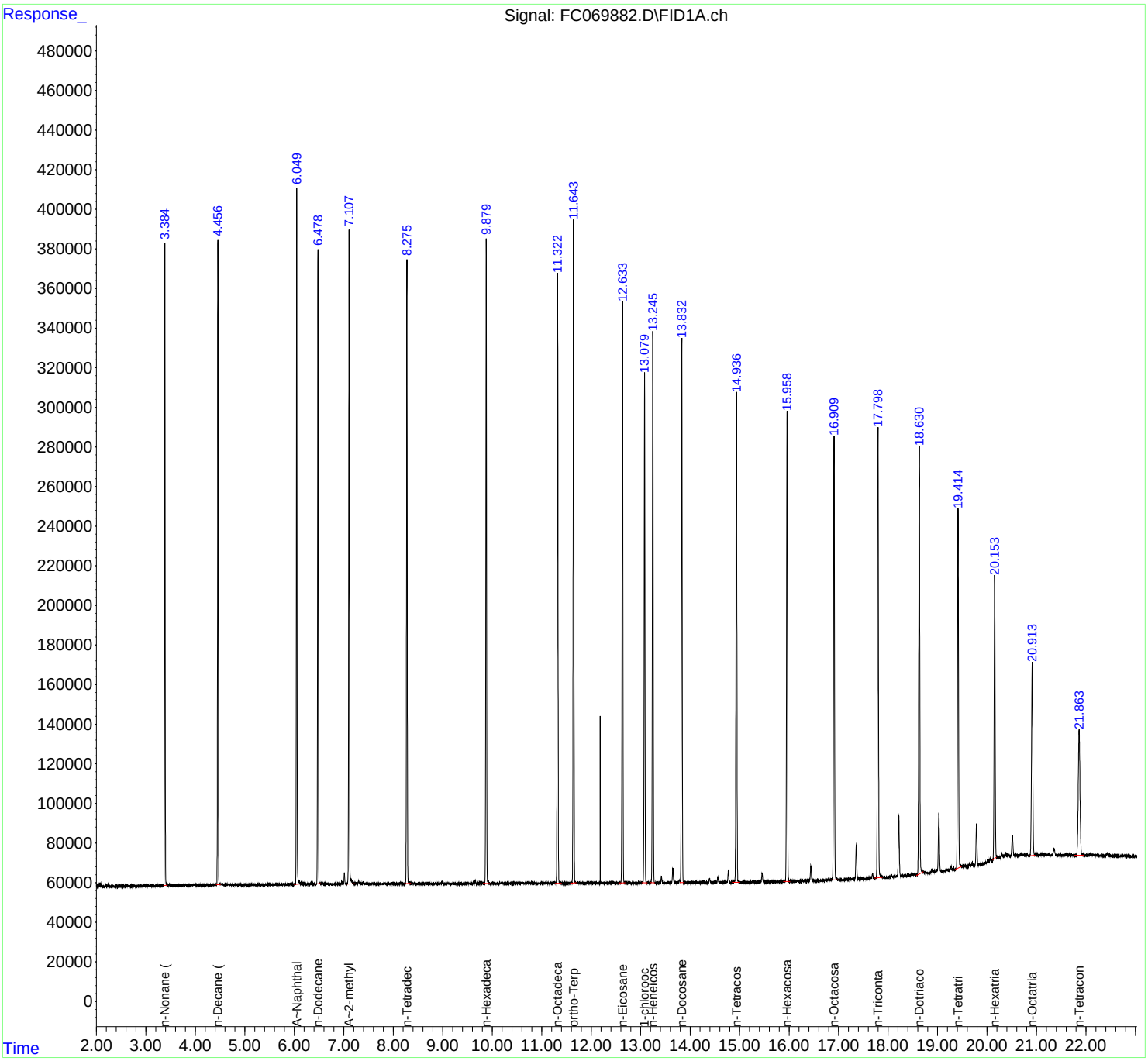
Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

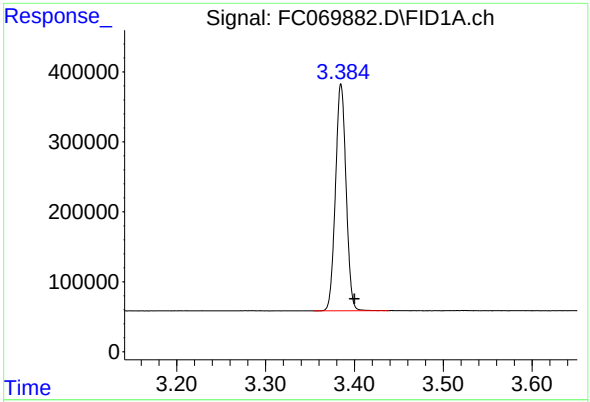
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025

Integration File: autoint1.e
Quant Time: Oct 01 02:09:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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





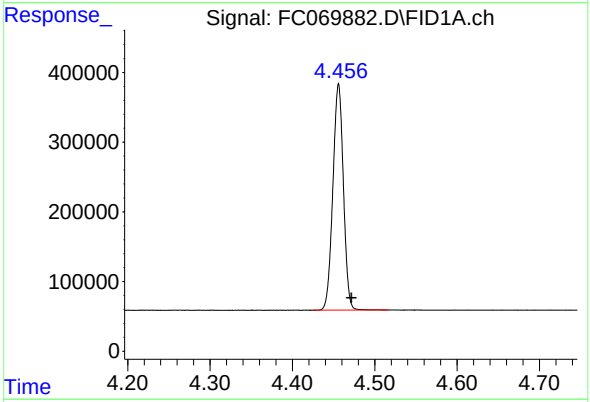
#1 n-Nonane (C9)

R.T.: 3.385 min
Delta R.T.: -0.015 min
Response: 2687261
Conc: 20.96 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

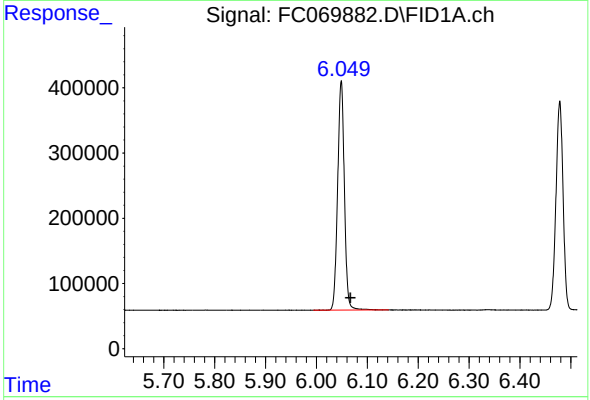
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025



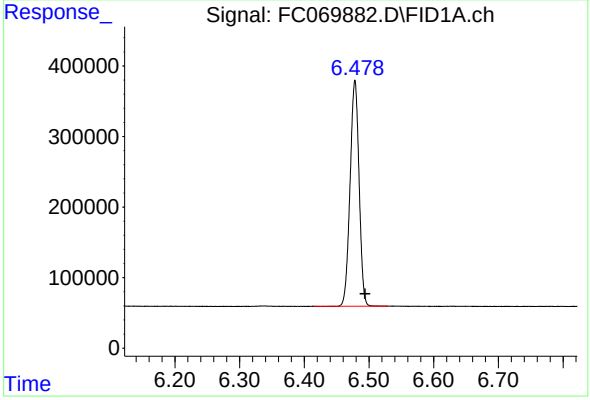
#2 n-Decane (C10)

R.T.: 4.456 min
Delta R.T.: -0.016 min
Response: 2886626
Conc: 21.72 ug/ml



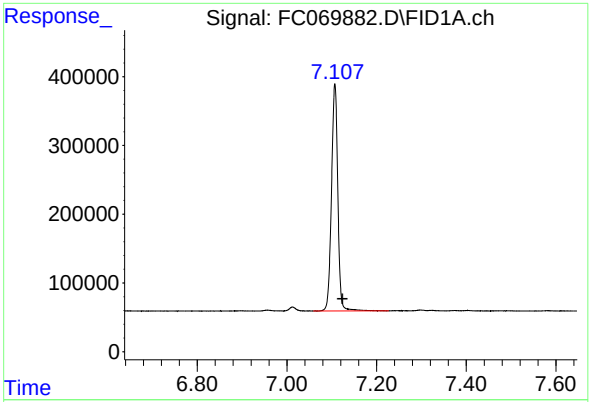
#3 A~Naphthalene (C11.7)

R.T.: 6.049 min
Delta R.T.: -0.018 min
Response: 3235971
Conc: 21.80 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.478 min
Delta R.T.: -0.016 min
Response: 3094081
Conc: 22.18 ug/ml



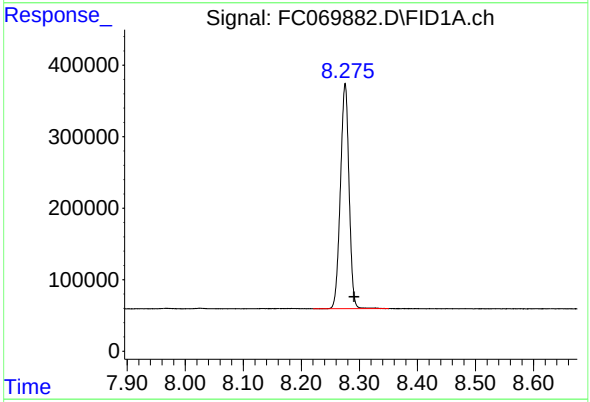
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.107 min
Delta R.T.: -0.017 min
Response: 3234007
Conc: 21.90 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

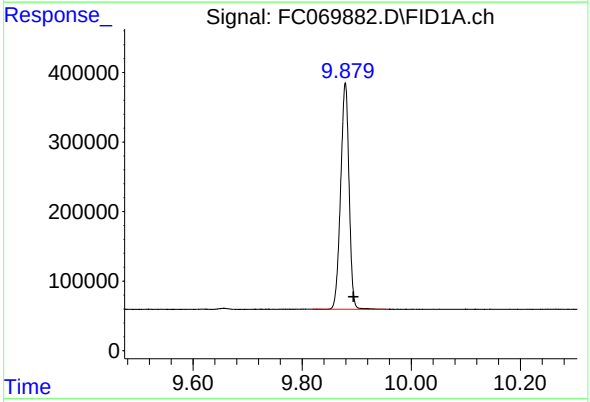
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025



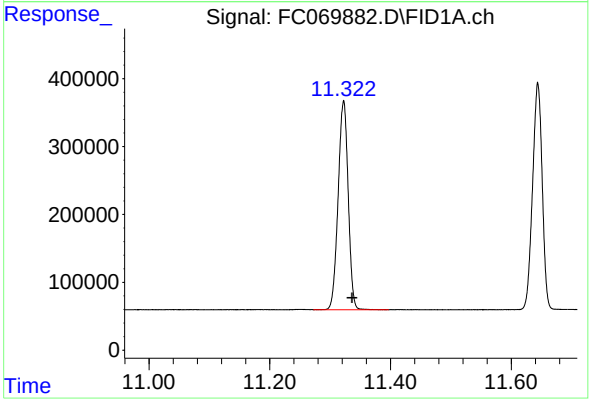
#6 n-Tetradecane (C14)

R.T.: 8.275 min
Delta R.T.: -0.015 min
Response: 3255543
Conc: 21.95 ug/ml



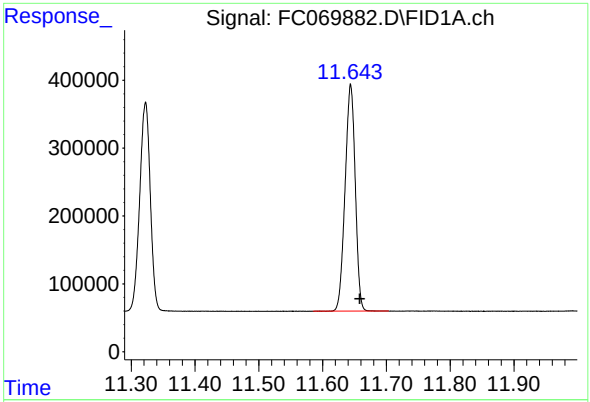
#7 n-Hexadecane (C16)

R.T.: 9.879 min
Delta R.T.: -0.015 min
Response: 3484107
Conc: 21.11 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.322 min
Delta R.T.: -0.014 min
Response: 3561155
Conc: 19.98 ug/ml



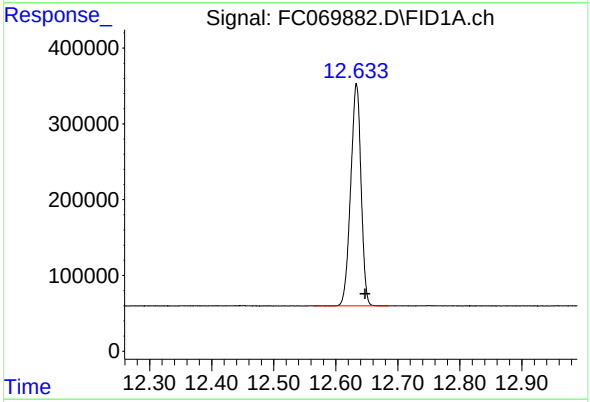
#9 ortho-Terphenyl (SURR)

R.T.: 11.644 min
Delta R.T.: -0.014 min
Response: 3704406
Conc: 19.78 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

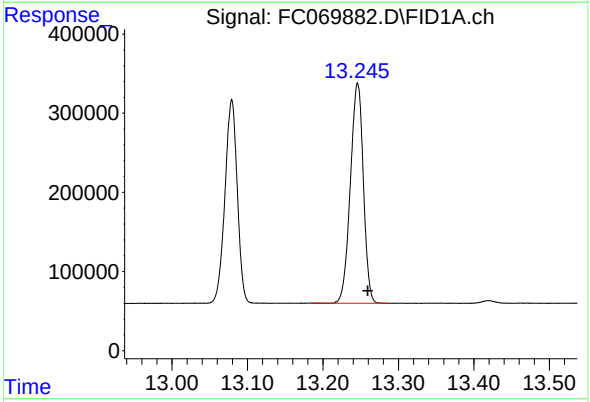
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025



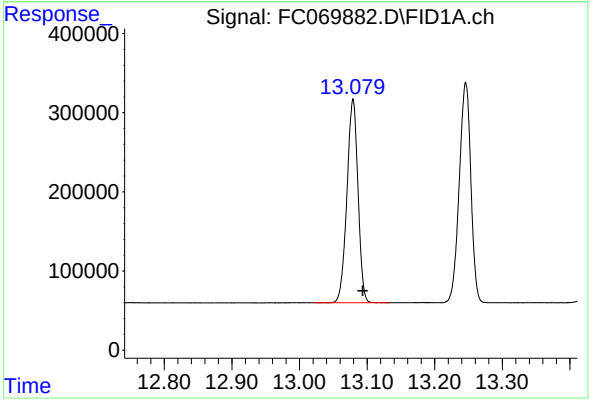
#10 n-Eicosane (C20)

R.T.: 12.633 min
Delta R.T.: -0.014 min
Response: 3401002
Conc: 18.88 ug/ml



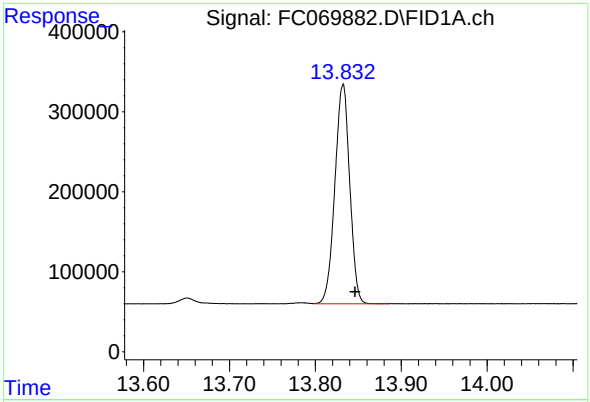
#11 n-Heneicosane (C21)

R.T.: 13.246 min
Delta R.T.: -0.013 min
Response: 3318038
Conc: 18.40 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.079 min
Delta R.T.: -0.015 min
Response: 2917767
Conc: 18.48 ug/ml



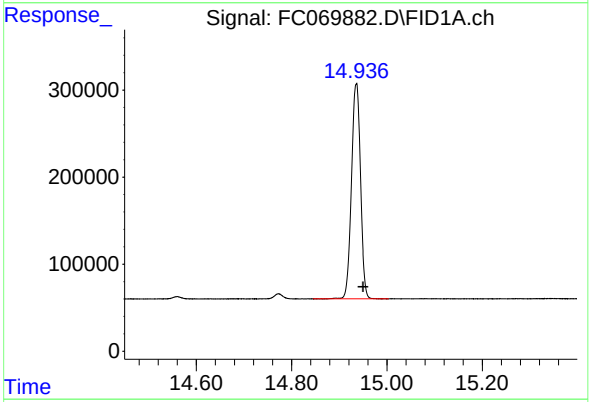
#13 n-Docosane (C22)

R.T.: 13.832 min
Delta R.T.: -0.014 min
Response: 3287588
Conc: 18.10 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

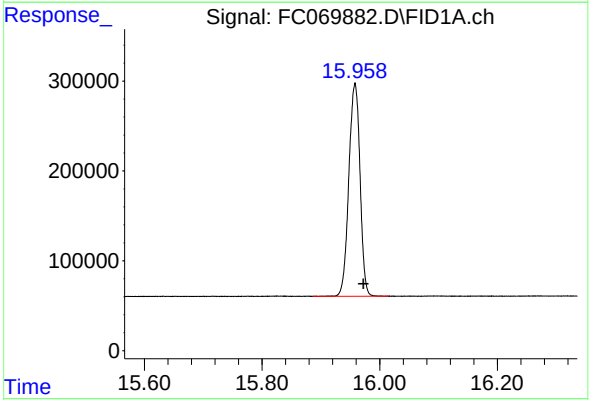
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025



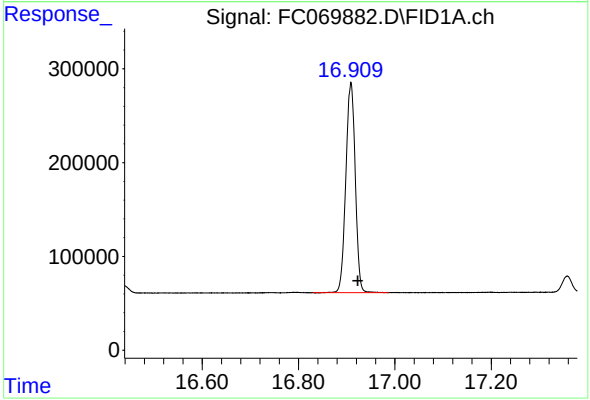
#14 n-Tetracosane (C24)

R.T.: 14.936 min
Delta R.T.: -0.015 min
Response: 3247966
Conc: 17.65 ug/ml



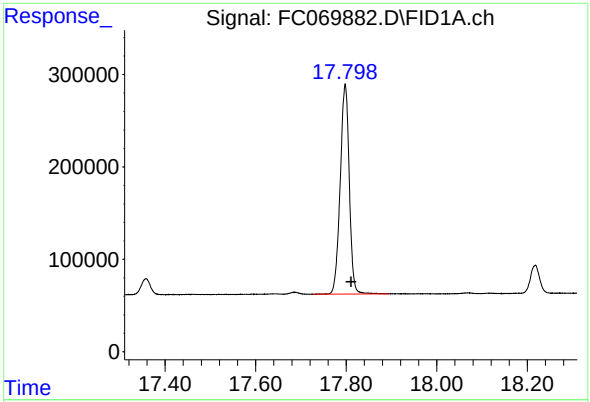
#15 n-Hexacosane (C26)

R.T.: 15.958 min
Delta R.T.: -0.014 min
Response: 3128263
Conc: 17.23 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.909 min
Delta R.T.: -0.014 min
Response: 3054320
Conc: 17.30 ug/ml



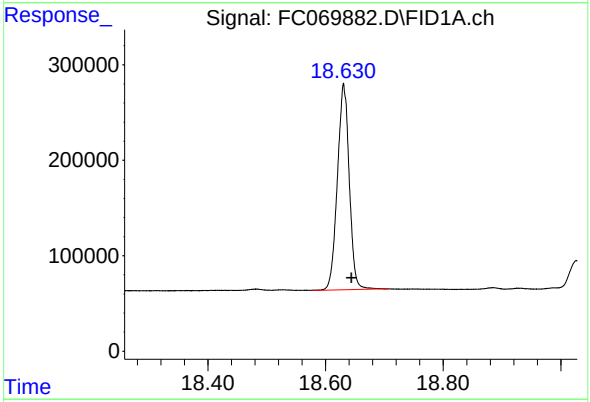
#17 n-Tricontane (C30)

R.T.: 17.798 min
Delta R.T.: -0.013 min
Response: 3150798
Conc: 18.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

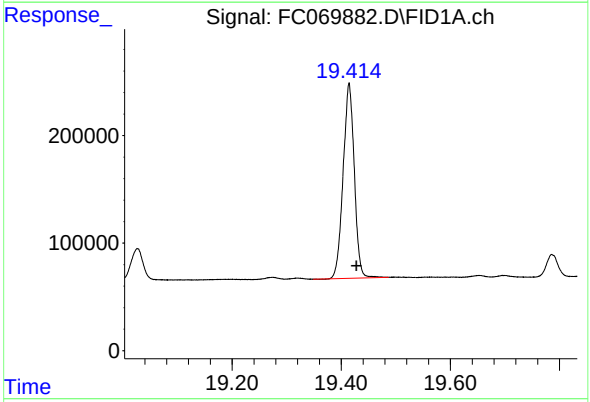
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025



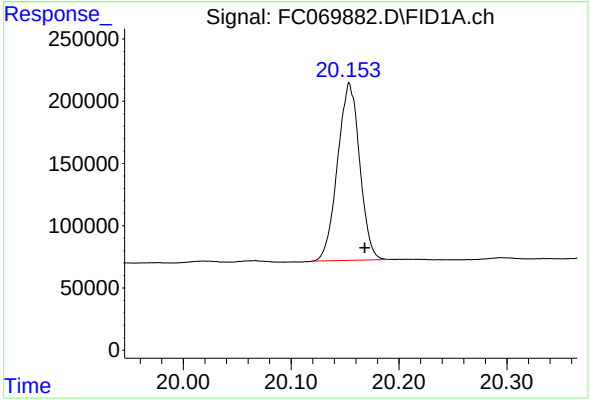
#18 n-Dotriacontane (C32)

R.T.: 18.630 min
Delta R.T.: -0.014 min
Response: 3023653
Conc: 18.69 ug/ml m



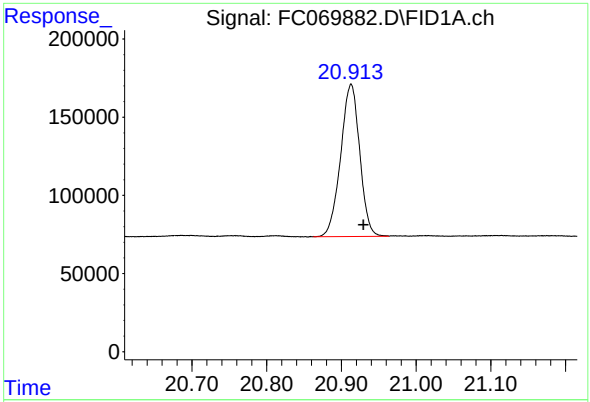
#19 n-Tetratriacontane (C34)

R.T.: 19.414 min
Delta R.T.: -0.014 min
Response: 2575218
Conc: 18.43 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.154 min
Delta R.T.: -0.014 min
Response: 2026294
Conc: 17.95 ug/ml



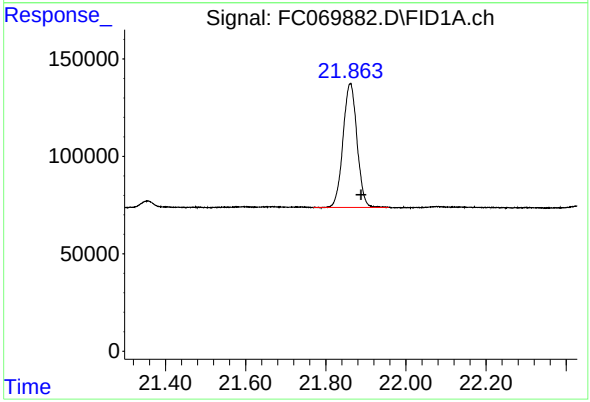
#21 n-Octatriacontane (C38)

R.T.: 20.913 min
Delta R.T.: -0.017 min
Response: 1726312
Conc: 17.90 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025



#22 n-Tetracontane (C40)

R.T.: 21.861 min
Delta R.T.: -0.027 min
Response: 1545313
Conc: 17.94 ug/ml

Instrument :
FID_C
LabSampleId :
20 PPM ALIPHATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC
Data File : FC069882.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 14:50
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 092325.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	3.385	3.354	3.439	BB	323554	2687261	72.54%	4.102%
2	4.456	4.425	4.517	BB	323733	2886626	77.92%	4.406%
3	6.049	5.994	6.142	BB	351209	3235971	87.35%	4.939%
4	6.478	6.414	6.530	BB	320844	3094081	83.52%	4.723%
5	7.107	7.059	7.227	BB	330578	3234007	87.30%	4.936%
6	8.275	8.220	8.350	BB	315073	3255543	87.88%	4.969%
7	9.879	9.820	9.959	BB	325509	3484107	94.05%	5.318%
8	11.322	11.272	11.397	BB	307323	3561155	96.13%	5.435%
9	11.644	11.585	11.704	BB	334567	3704406	100.00%	5.654%
10	12.633	12.564	12.685	BB	293028	3401002	91.81%	5.191%
11	13.079	13.020	13.132	BB	256930	2917767	78.76%	4.453%
12	13.246	13.187	13.287	BB	278442	3318038	89.57%	5.064%
13	13.832	13.797	13.885	VB	273791	3287588	88.75%	5.018%
14	14.936	14.845	15.004	BB	247082	3247966	87.68%	4.957%
15	15.958	15.887	16.015	BB	237595	3128263	84.45%	4.775%
16	16.909	16.830	16.987	BB	223998	3054320	82.45%	4.662%
17	17.798	17.727	17.894	BB	226365	3150798	85.06%	4.809%
18	18.630	18.575	18.709	M	216070	3008307	81.21%	4.592%
19	19.414	19.349	19.487	BB	181521	2575218	69.52%	3.931%
20	20.154	20.120	20.190	BB	142410	2026294	54.70%	3.093%
21	20.913	20.853	20.961	M	97450	1713685	46.26%	2.616%
22	21.861	21.769	21.957	BB	63671	1545313	41.72%	2.359%

Sum of corrected areas: 65517714

Aliphatic EPH 092325.M Wed Oct 01 02:40:28 2025

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

Continuing Calibration Report for SequenceID : FC100125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC069891.D**						
Aliphatic C9-C12	8525121.000	60.000	3.284	6.578	142085.350	133523.254	-6.412
Aliphatic C12-C16	6596209.000	40.000	6.579	9.980	164905.225	156673.343	-5.254
Aliphatic C16-C21	10060683.000	60.000	9.981	13.346	167678.050	179548.834	6.611
Aliphatic C21-C28	12282745.000	80.000	13.347	17.008	153534.313	180941.740	15.147
Aliphatic C28-C40	13044458.000	120.000	17.009	21.963	108703.817	128677.038	15.522
Aliphatic EPH	50509216.000	360.000	3.284	21.963	140303.378	152688.452	8.111

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:	30 Sep 2025 22:24
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069891.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.284	6.578	8525121.000	60.000	ug/ml
Aliphatic C12-C16	6.579	9.980	6596209.000	40.000	ug/ml
Aliphatic C16-C21	9.981	13.346	10060683.000	60.000	ug/ml
Aliphatic C21-C28	13.347	17.008	12282745.000	80.000	ug/ml
Aliphatic C28-C40	17.009	21.963	13044458.000	120.000	ug/ml
Aliphatic EPH	3.284	21.963	50509216.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100125AL\
Data File : FC069891.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 22:24
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 10/01/2025
Supervised By :mohammad ahmed 10/03/2025

Integration File: autoint1.e
Quant Time: Oct 01 04:15:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.645	3635888	19.412 ug/ml
Spiked Amount	50.000		Recovery =	38.82%
12) S	1-chlorooctadecane (S...	13.080	2845533	18.019 ug/ml
Spiked Amount	50.000		Recovery =	36.04%
	Target Compounds			
1) T	n-Nonane (C9)	3.383	2654409	20.706 ug/ml
2) T	n-Decane (C10)	4.455	2840005	21.373 ug/ml
3) T	A~Naphthalene (C11.7)	6.048	3188826	21.481 ug/ml
4) T	n-Dodecane (C12)	6.478	3030707	21.726 ug/ml
5) T	A~2-methylnaphthalene...	7.107	3186194	21.580 ug/ml
6) T	n-Tetradecane (C14)	8.275	3186635	21.485 ug/ml
7) T	n-Hexadecane (C16)	9.879	3409574	20.661 ug/ml
8) T	n-Octadecane (C18)	11.323	3493375	19.601 ug/ml
10) T	n-Eicosane (C20)	12.634	3327751	18.476 ug/ml
11) T	n-Heneicosane (C21)	13.245	3239557	17.966 ug/ml
13) T	n-Docosane (C22)	13.833	3204138	17.637 ug/ml
14) T	n-Tetracosane (C24)	14.936	3145265	17.094 ug/ml
15) T	n-Hexacosane (C26)	15.958	3001326	16.531 ug/ml
16) T	n-Octacosane (C28)	16.909	2932016	16.609 ug/ml
17) T	n-Tricontane (C30)	17.797	3045806	17.402 ug/ml
18) T	n-Dotriacontane (C32)	18.630	2889833	17.862 ug/mlm
19) T	n-Tetratriacontane (C34)	19.415	2507501	17.942 ug/ml
20) T	n-Hexatriacontane (C36)	20.155	1820706	16.127 ug/ml
21) T	n-Octatriacontane (C38)	20.914	1470878	15.248 ug/mlm
22) T	n-Tetracontane (C40)	21.864	1309734	15.207 ug/mlm

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100125AL\
Data File : FC069891.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 22:24
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

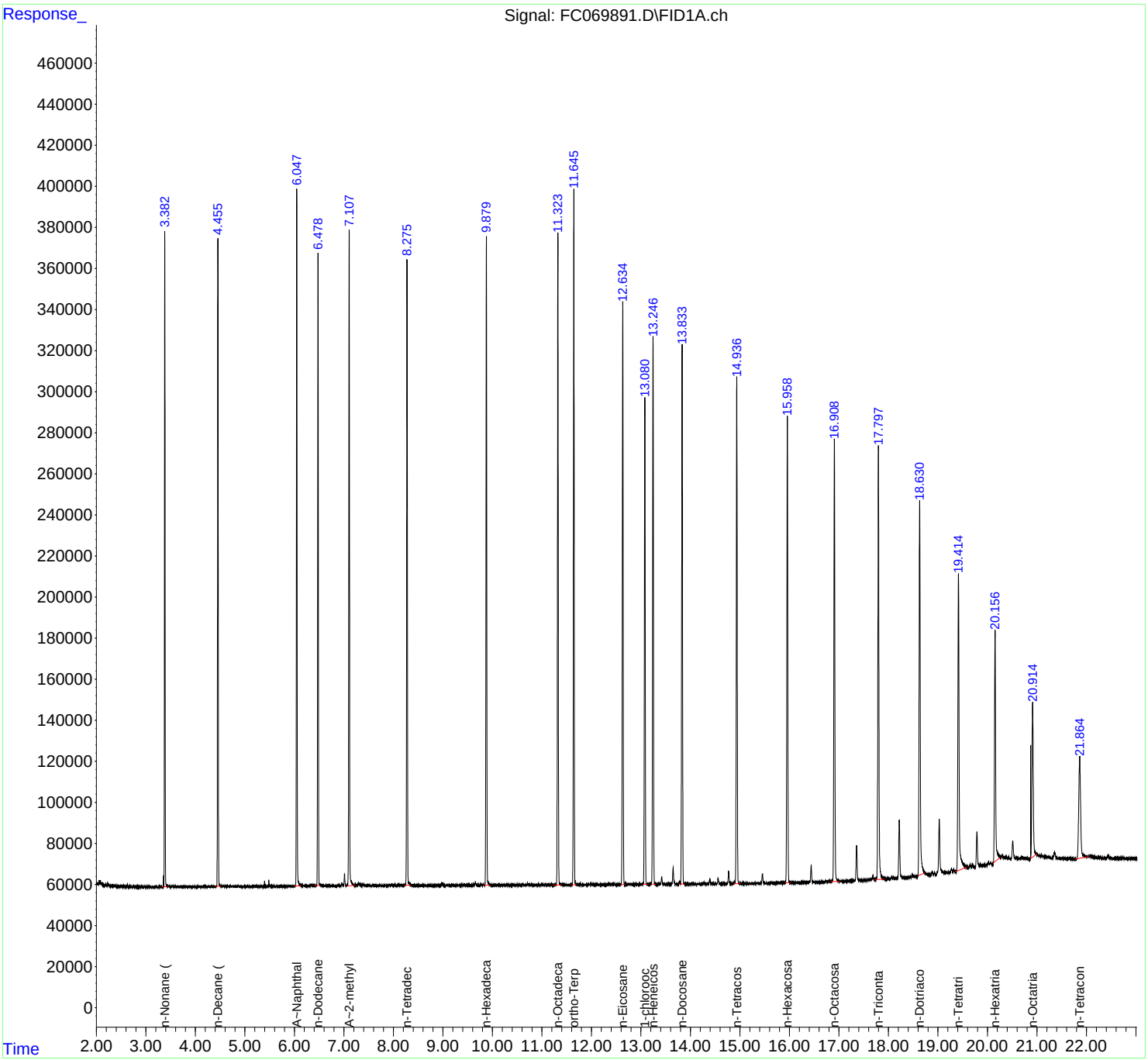
Integration File: autoint1.e
Quant Time: Oct 01 04:15:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

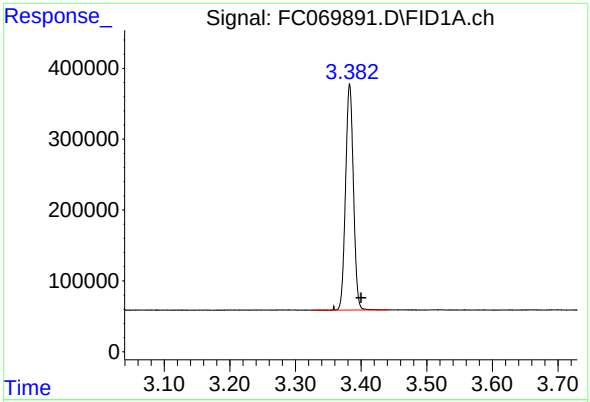
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025





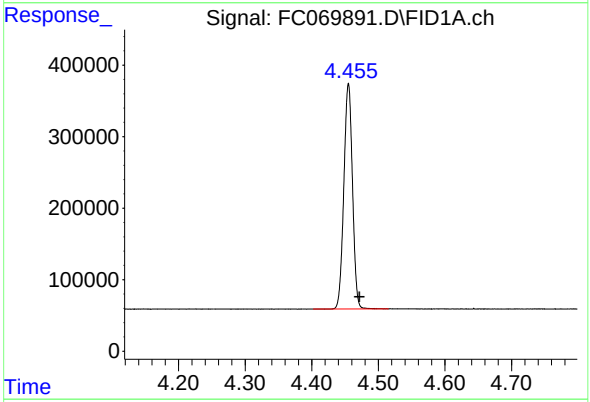
#1 n-Nonane (C9)

R.T.: 3.383 min
Delta R.T.: -0.017 min
Response: 2654409
Conc: 20.71 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

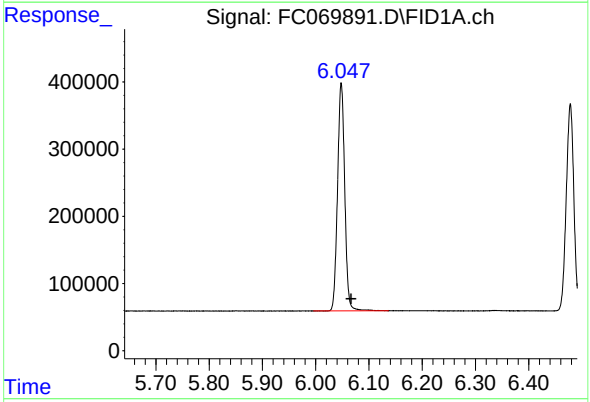
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025



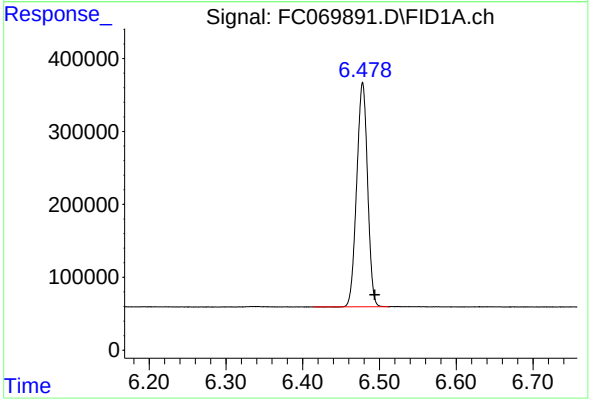
#2 n-Decane (C10)

R.T.: 4.455 min
Delta R.T.: -0.017 min
Response: 2840005
Conc: 21.37 ug/ml



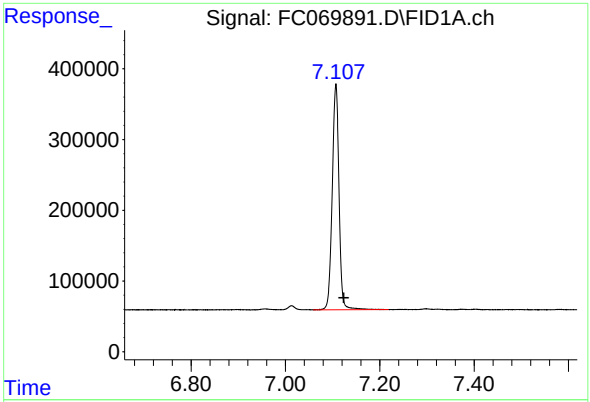
#3 A~Naphthalene (C11.7)

R.T.: 6.048 min
Delta R.T.: -0.019 min
Response: 3188826
Conc: 21.48 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.478 min
Delta R.T.: -0.016 min
Response: 3030707
Conc: 21.73 ug/ml



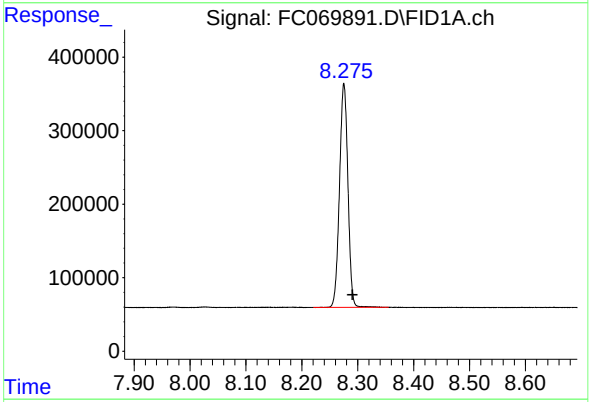
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.107 min
Delta R.T.: -0.017 min
Response: 3186194
Conc: 21.58 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

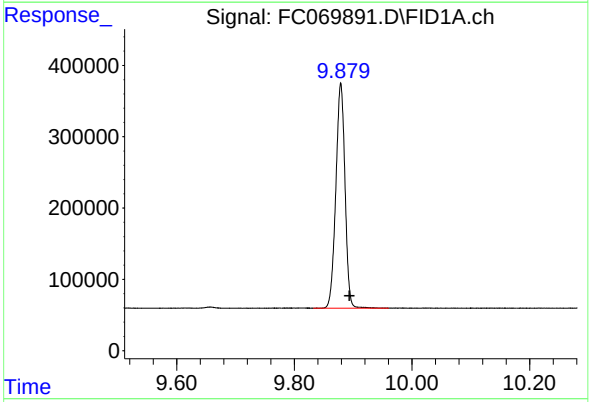
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025



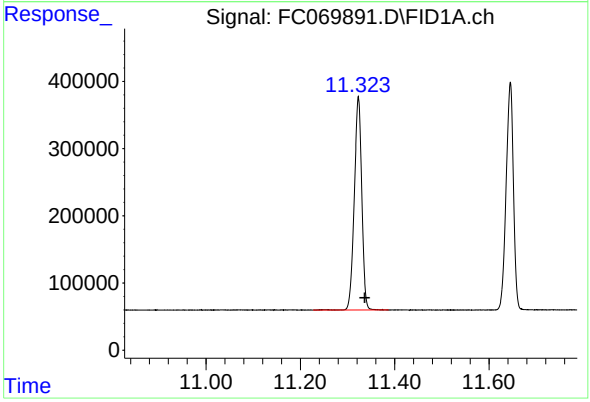
#6 n-Tetradecane (C14)

R.T.: 8.275 min
Delta R.T.: -0.015 min
Response: 3186635
Conc: 21.48 ug/ml



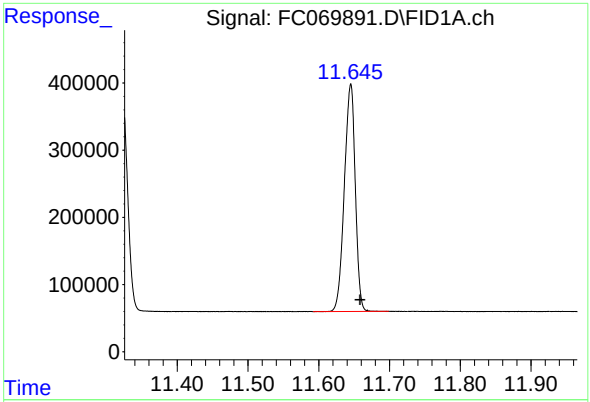
#7 n-Hexadecane (C16)

R.T.: 9.879 min
Delta R.T.: -0.015 min
Response: 3409574
Conc: 20.66 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.323 min
Delta R.T.: -0.014 min
Response: 3493375
Conc: 19.60 ug/ml



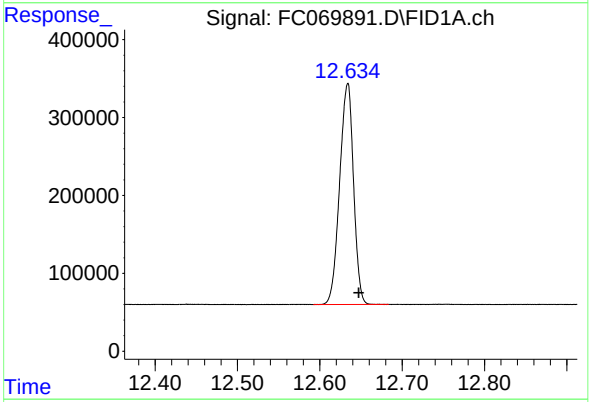
#9 ortho-Terphenyl (SURR)

R.T.: 11.645 min
Delta R.T.: -0.013 min
Response: 3635888
Conc: 19.41 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

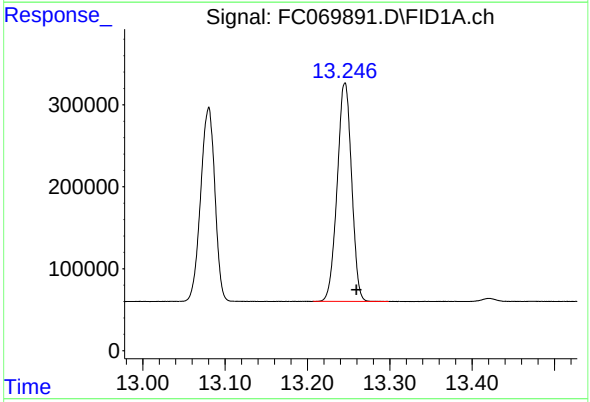
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025



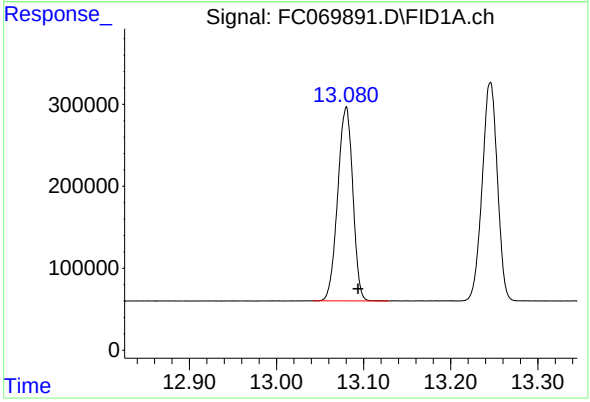
#10 n-Eicosane (C20)

R.T.: 12.634 min
Delta R.T.: -0.014 min
Response: 3327751
Conc: 18.48 ug/ml



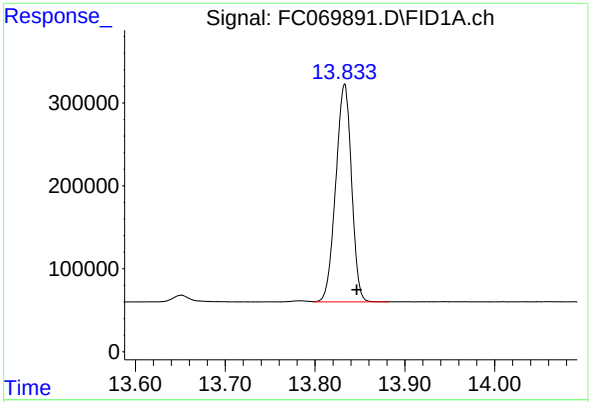
#11 n-Heneicosane (C21)

R.T.: 13.245 min
Delta R.T.: -0.014 min
Response: 3239557
Conc: 17.97 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.080 min
Delta R.T.: -0.014 min
Response: 2845533
Conc: 18.02 ug/ml



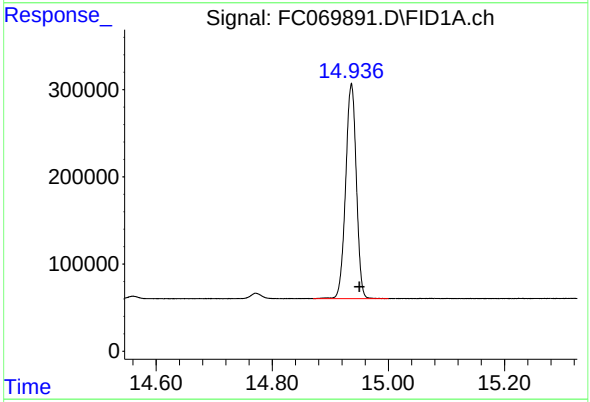
#13 n-Docosane (C22)

R.T.: 13.833 min
Delta R.T.: -0.014 min
Response: 3204138
Conc: 17.64 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

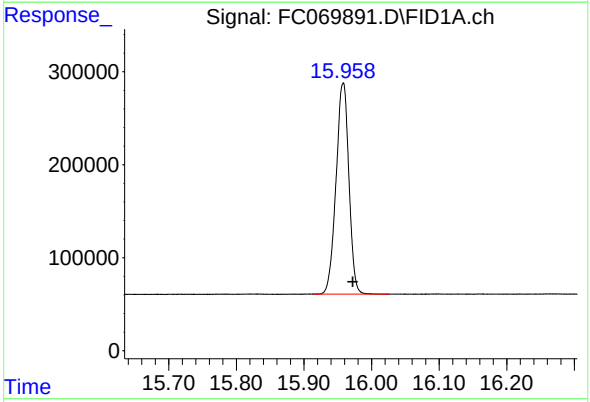
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025



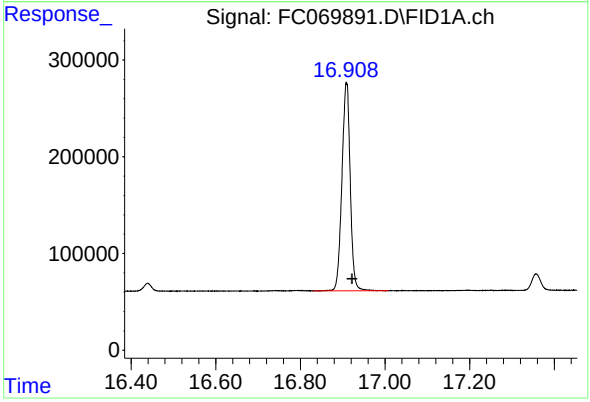
#14 n-Tetracosane (C24)

R.T.: 14.936 min
Delta R.T.: -0.014 min
Response: 3145265
Conc: 17.09 ug/ml



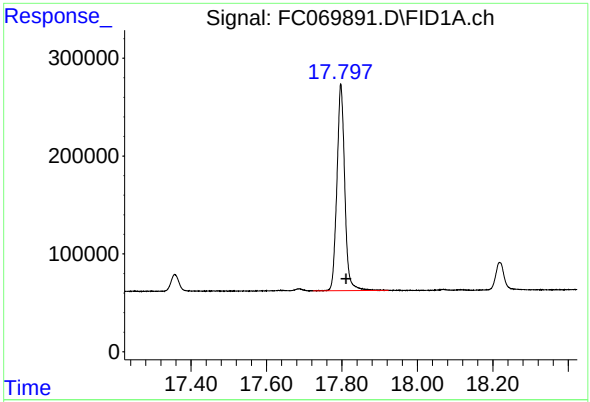
#15 n-Hexacosane (C26)

R.T.: 15.958 min
Delta R.T.: -0.015 min
Response: 3001326
Conc: 16.53 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.909 min
Delta R.T.: -0.014 min
Response: 2932016
Conc: 16.61 ug/ml



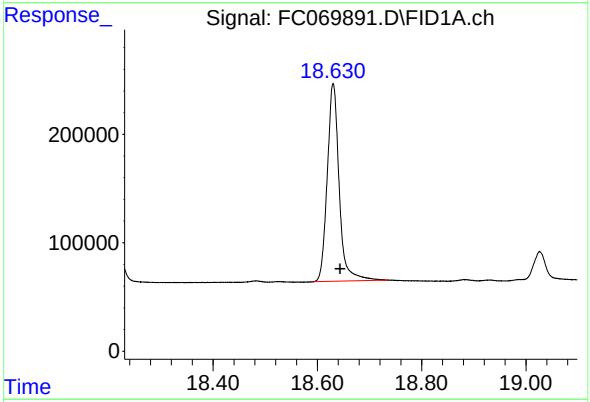
#17 n-Tricontane (C30)

R.T.: 17.797 min
Delta R.T.: -0.014 min
Response: 3045806
Conc: 17.40 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

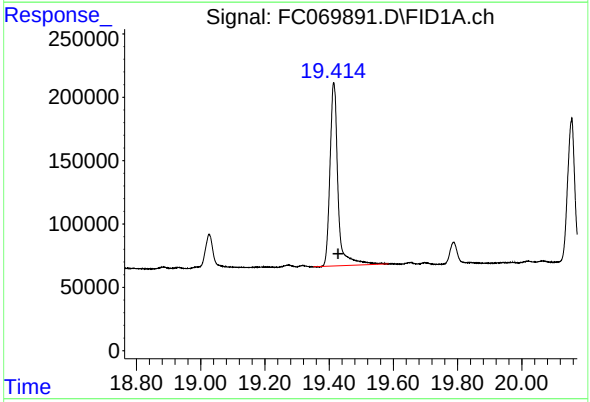
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025



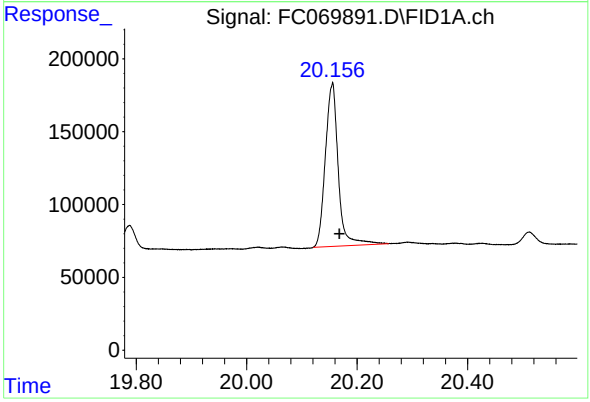
#18 n-Dotriacontane (C32)

R.T.: 18.630 min
Delta R.T.: -0.014 min
Response: 2889833
Conc: 17.86 ug/ml m



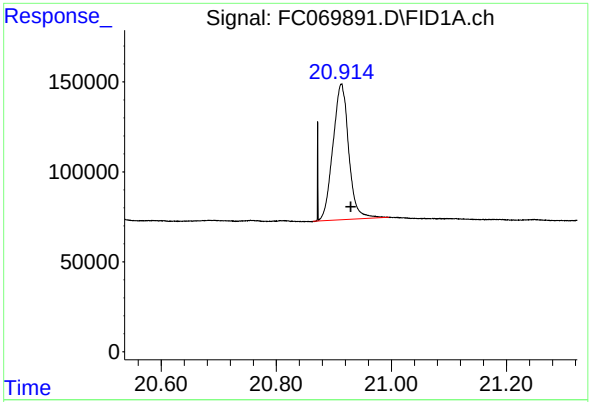
#19 n-Tetratriacontane (C34)

R.T.: 19.415 min
Delta R.T.: -0.013 min
Response: 2507501
Conc: 17.94 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.155 min
Delta R.T.: -0.014 min
Response: 1820706
Conc: 16.13 ug/ml



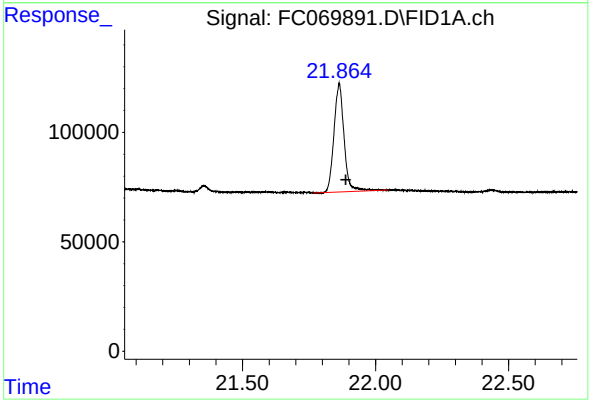
#21 n-Octatriacontane (C38)

R.T.: 20.914 min
Delta R.T.: -0.016 min
Response: 1470878
Conc: 15.25 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025



#22 n-Tetracontane (C40)

R.T.: 21.864 min
Delta R.T.: -0.024 min
Response: 1309734
Conc: 15.21 ug/ml m

Instrument :
FID_C
LabSampleId :
20 PPM ALIPHATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/01/2025
Supervised By :mohammad ahmed 10/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC
Data File : FC069891.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2025 22:24
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 092325.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	3.383	3.327	3.442	BB	319022	2654409	73.01%	4.186%
2	4.455	4.402	4.515	BB	315732	2840005	78.11%	4.479%
3	6.048	5.995	6.137	BB	338481	3188826	87.70%	5.029%
4	6.478	6.414	6.512	BB	308494	3030707	83.36%	4.780%
5	7.107	7.059	7.219	BB	319353	3186194	87.63%	5.025%
6	8.275	8.220	8.355	BB	304492	3186635	87.64%	5.026%
7	9.879	9.832	9.960	BB	315575	3409574	93.78%	5.377%
8	11.323	11.227	11.387	BB	316975	3493375	96.08%	5.509%
9	11.645	11.592	11.699	BB	339766	3635888	100.00%	5.734%
10	12.634	12.592	12.684	BB	284042	3327751	91.53%	5.248%
11	13.080	13.042	13.129	BB	237797	2845533	78.26%	4.488%
12	13.245	13.207	13.299	BB	266384	3239557	89.10%	5.109%
13	13.833	13.798	13.882	VB	262256	3204138	88.13%	5.053%
14	14.936	14.870	15.000	BB	247051	3145265	86.51%	4.960%
15	15.958	15.914	16.025	BB	228201	3001326	82.55%	4.733%
16	16.909	16.830	17.009	BB	215551	2932016	80.64%	4.624%
17	17.797	17.724	17.924	BB	211172	3045806	83.77%	4.804%
18	18.630	18.572	18.751	M	183041	2946118	81.03%	4.646%
19	19.415	19.350	19.585	BB	144382	2507501	68.97%	3.955%
20	20.155	20.120	20.257	BV	112246	1820706	50.08%	2.871%
21	20.914	20.868	20.988	M	75747	1481144	40.74%	2.336%
22	21.863	21.770	21.990	BB	49338	1284300	35.32%	2.025%

Sum of corrected areas: 63406773

Aliphatic EPH 092325.M Wed Oct 01 04:40:09 2025

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

Continuing Calibration Report for SequenceID : FD093025AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049777.D**						
Aromatic C10-C12	4919271.000	40.000	4.384	6.128	122981.775	116056.185	-5.967
Aromatic C12-C16	8626440.000	60.000	6.129	8.757	143774.000	135865.661	-5.821
Aromatic C16-C21	11198720.000	80.000	8.758	13.048	139984.000	135770.533	-3.103
Aromatic C21-C36	21751349.000	180.000	13.049	18.469	120840.828	118321.901	-2.129
Aromatic EPH	46495780.000	360.000	4.384	18.469	129154.944	124871.589	-3.430

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:	30 Sep 2025 09:04
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049777.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.384	6.128	4919271.000	40.000	ug/ml
Aromatic C12-C16	6.129	8.757	8626440.000	60.000	ug/ml
Aromatic C16-C21	8.758	13.048	11198720.000	80.000	ug/ml
Aromatic C21-C36	13.049	18.469	21751349.000	180.000	ug/ml
Aromatic EPH	4.384	18.469	46495780.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD093025AR\
Data File : FD049777.D
Signal(s) : FID2B.ch
Acq On : 30 Sep 2025 09:04
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: Oct 01 02:50:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
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...	7.693	2376032	21.127 ug/ml
Spiked Amount	50.000		Recovery =	42.25%
6) S	2-Flurobiphenyl (SURR)	8.557	1692914	21.090 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	42.18%
11) S	ortho-Terphenyl (SURR)	11.604	2978293	21.051 ug/ml
Spiked Amount	50.000		Recovery =	42.10%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.484	2278335	21.144 ug/ml
2) T	Naphthalene (C11.7)	6.028	2640936	21.236 ug/ml
3) T	2-Methylnaphthalene (...	7.082	2768911	21.245 ug/ml
5) T	Acenaphthylene (C15.06)	8.361	2944120	21.236 ug/ml
7) T	Acenaphthene (C15.5)	8.657	2913409	21.017 ug/ml
8) T	Flouorene (C16.55)	9.438	2901423	20.917 ug/ml
9) T	Phenanthrene (C19.36)	10.836	2902704	20.837 ug/ml
10) T	Anthracene (C19.43)	10.911	2589785	19.614 ug/ml
12) T	Fluoranthene (C21.85)	12.650	2832339	21.032 ug/ml
13) T	Pyrene (C20.8)	12.948	2804808	21.085 ug/ml
14) T	Benzo[a]anthracene (C...	14.821	2447055	20.463 ug/ml
15) T	Chrysene (C27.41)	14.863	2516573	20.686 ug/ml
16) T	benzo[b]fluoranthene ...	16.371	2452236	20.458 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.404	2305737	20.464 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.750	2360032	20.112 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.113	2146819	19.733 ug/ml
20) T	Dibenz[a,h]anthracene...	18.154	2355279	20.670 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.369	2335279	20.070 ug/ml

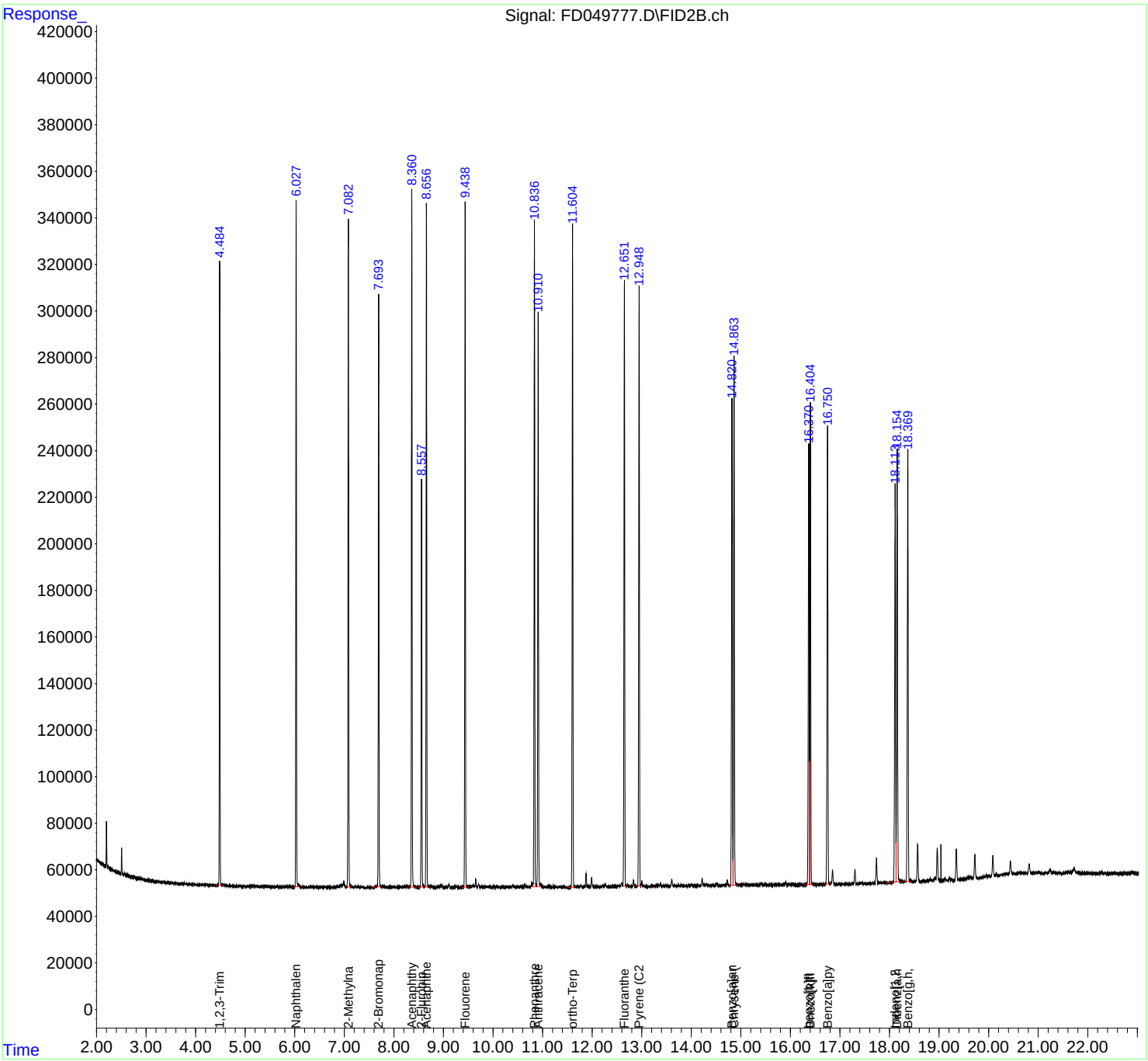
(f)=RT Delta > 1/2 Window (m)=manual int.

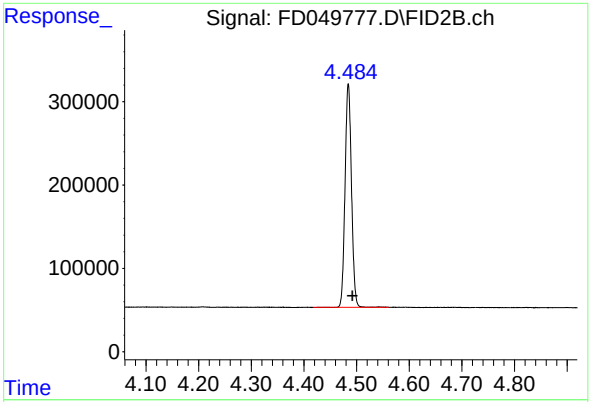
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD093025AR\
Data File : FD049777.D
Signal(s) : FID2B.ch
Acq On : 30 Sep 2025 09:04
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 01 02:50:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

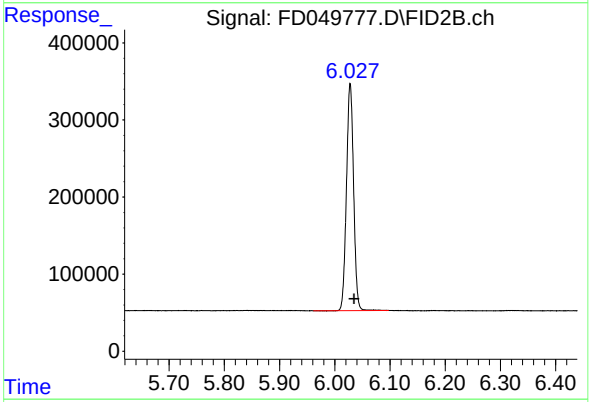




#1 1,2,3-Trimethylbenzene (C10.1)

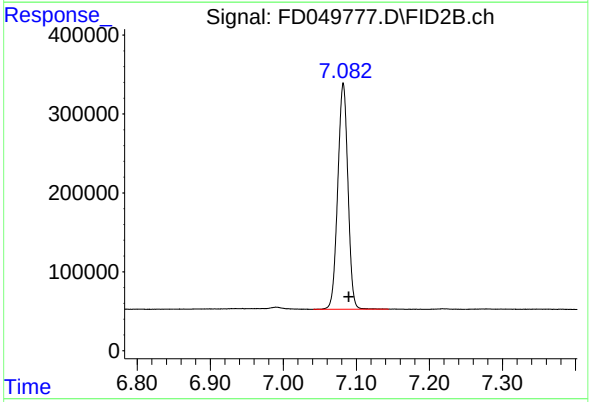
R.T.: 4.484 min
Delta R.T.: -0.008 min
Response: 2278335
Conc: 21.14 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



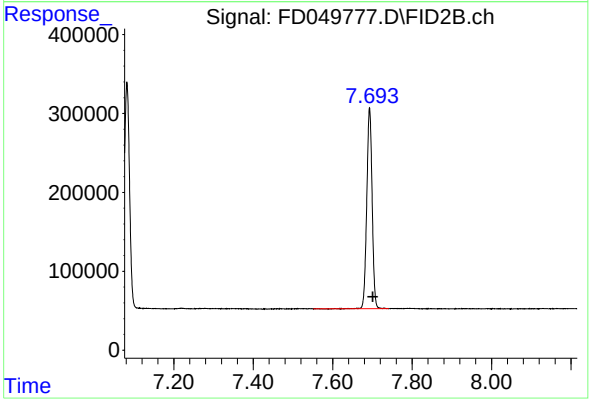
#2 Naphthalene (C11.7)

R.T.: 6.028 min
Delta R.T.: -0.007 min
Response: 2640936
Conc: 21.24 ug/ml



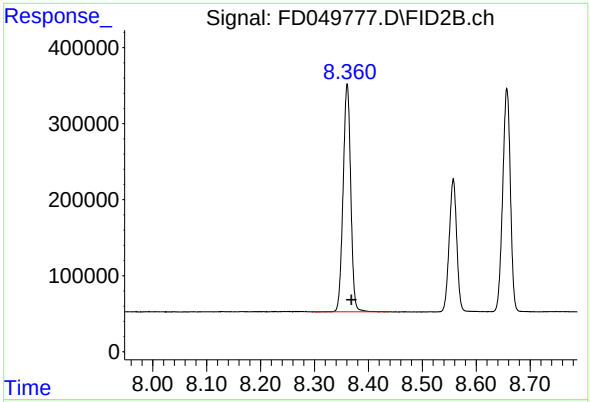
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.082 min
Delta R.T.: -0.008 min
Response: 2768911
Conc: 21.24 ug/ml



#4 2-Bromonaphthalene (SURR)

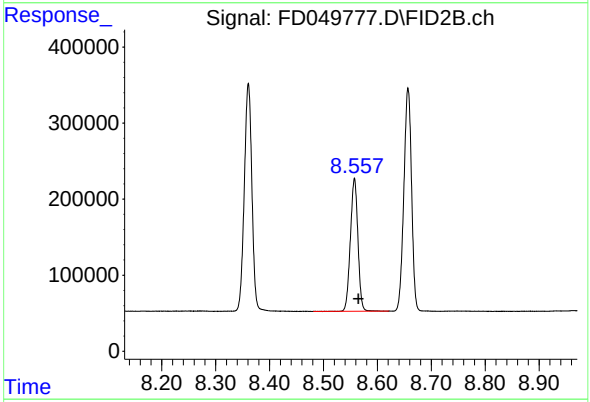
R.T.: 7.693 min
Delta R.T.: -0.008 min
Response: 2376032
Conc: 21.13 ug/ml



#5 Acenaphthylene (C15.06)

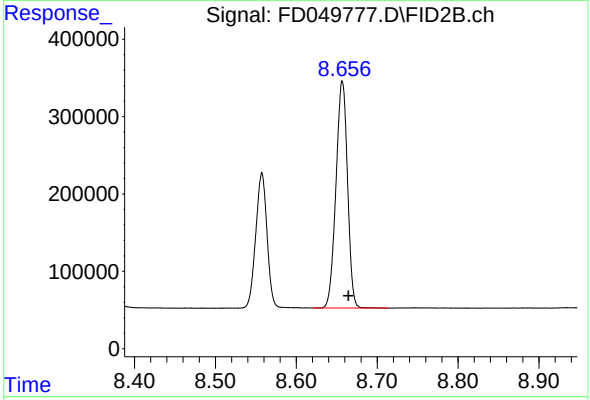
R.T.: 8.361 min
Delta R.T.: -0.008 min
Response: 2944120
Conc: 21.24 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



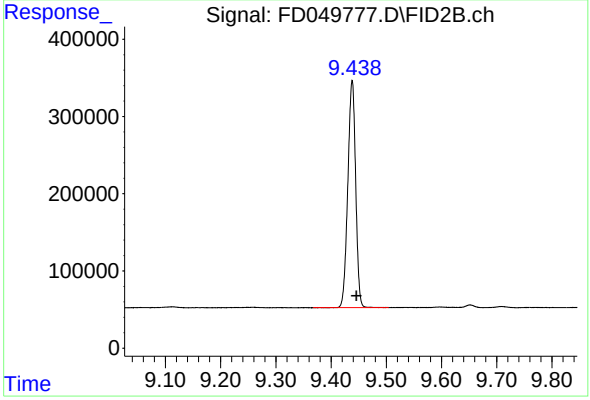
#6 2-Flurobiphenyl (SURR)

R.T.: 8.557 min
Delta R.T.: -0.008 min
Response: 1692914
Conc: 21.09 ug/ml



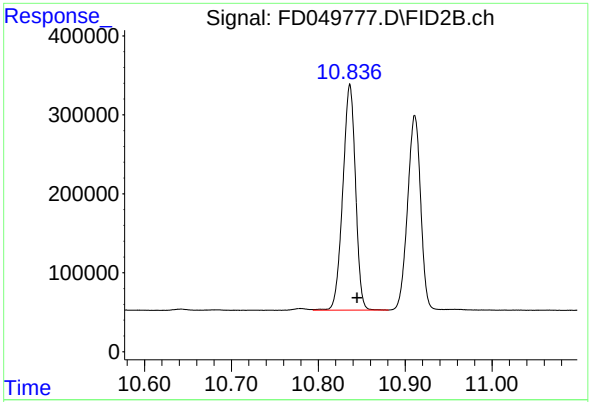
#7 Acenaphthene (C15.5)

R.T.: 8.657 min
Delta R.T.: -0.008 min
Response: 2913409
Conc: 21.02 ug/ml



#8 Flouorene (C16.55)

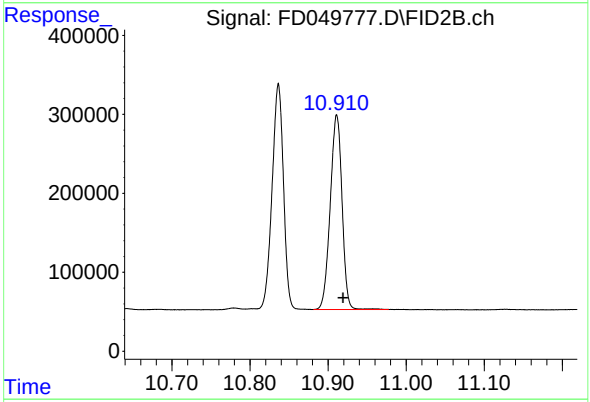
R.T.: 9.438 min
Delta R.T.: -0.008 min
Response: 2901423
Conc: 20.92 ug/ml



#9 Phenanthrene (C19.36)

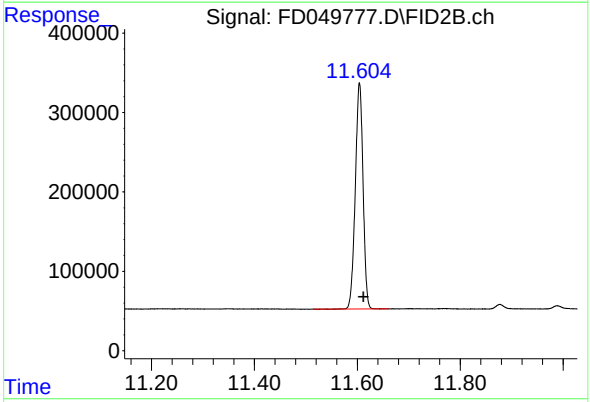
R.T.: 10.836 min
Delta R.T.: -0.008 min
Response: 2902704
Conc: 20.84 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



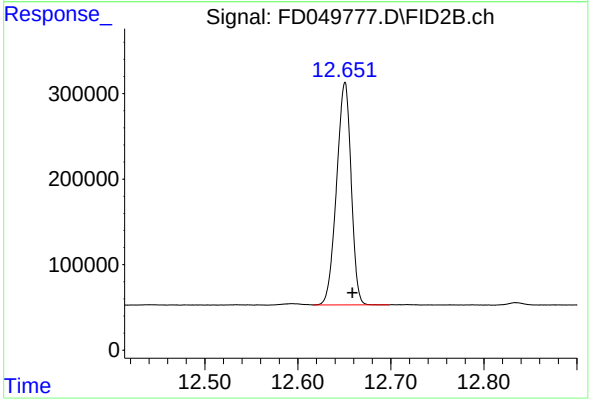
#10 Anthracene (C19.43)

R.T.: 10.911 min
Delta R.T.: -0.008 min
Response: 2589785
Conc: 19.61 ug/ml



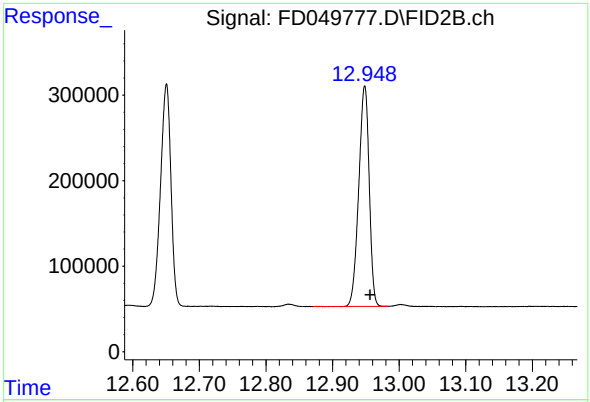
#11 ortho-Terphenyl (SURR)

R.T.: 11.604 min
Delta R.T.: -0.008 min
Response: 2978293
Conc: 21.05 ug/ml



#12 Fluoranthene (C21.85)

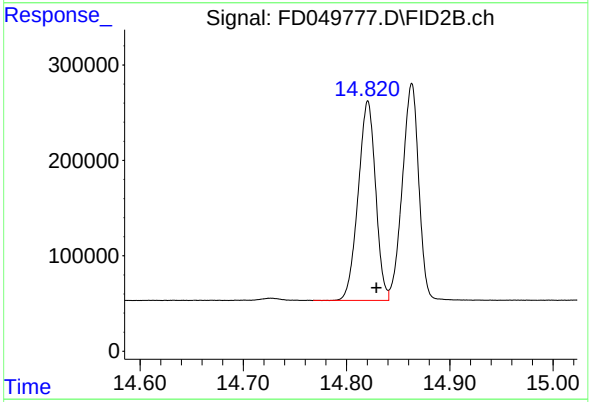
R.T.: 12.650 min
Delta R.T.: -0.008 min
Response: 2832339
Conc: 21.03 ug/ml



#13 Pyrene (C20.8)

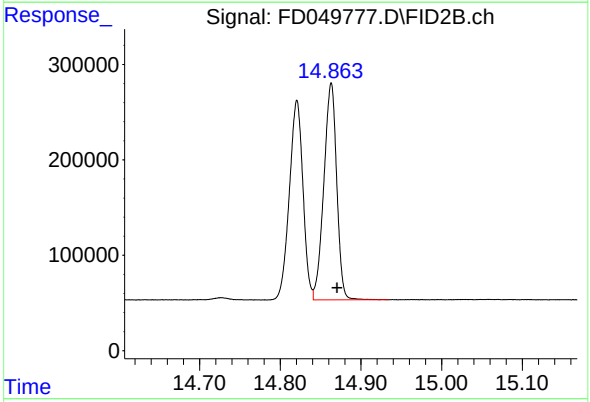
R.T.: 12.948 min
Delta R.T.: -0.008 min
Response: 2804808
Conc: 21.08 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



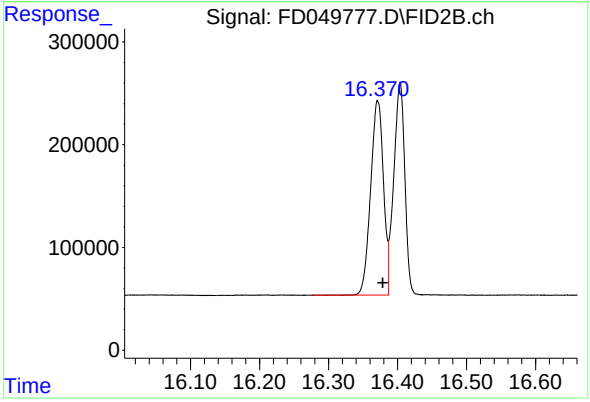
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.821 min
Delta R.T.: -0.008 min
Response: 2447055
Conc: 20.46 ug/ml



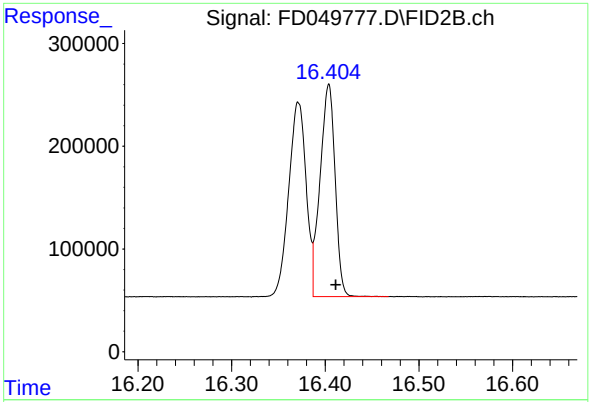
#15 Chrysene (C27.41)

R.T.: 14.863 min
Delta R.T.: -0.008 min
Response: 2516573
Conc: 20.69 ug/ml



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

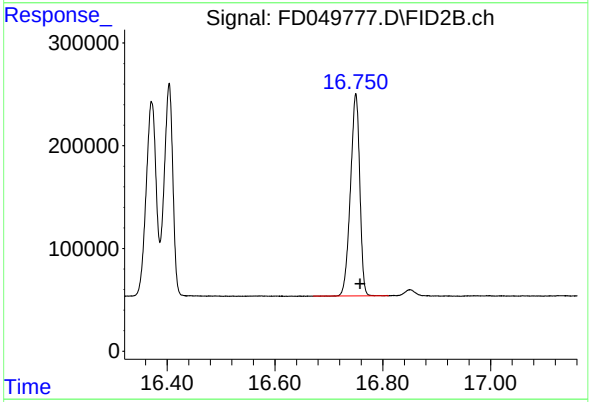
R.T.: 16.371 min
Delta R.T.: -0.008 min
Response: 2452236
Conc: 20.46 ug/ml



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

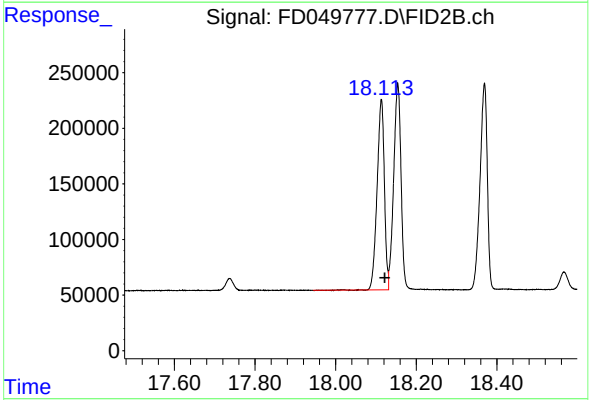
R.T.: 16.404 min
Delta R.T.: -0.008 min
Response: 2305737
Conc: 20.46 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



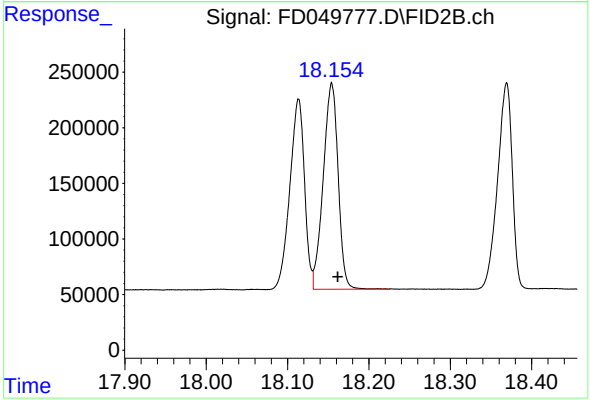
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.750 min
Delta R.T.: -0.008 min
Response: 2360032
Conc: 20.11 ug/ml



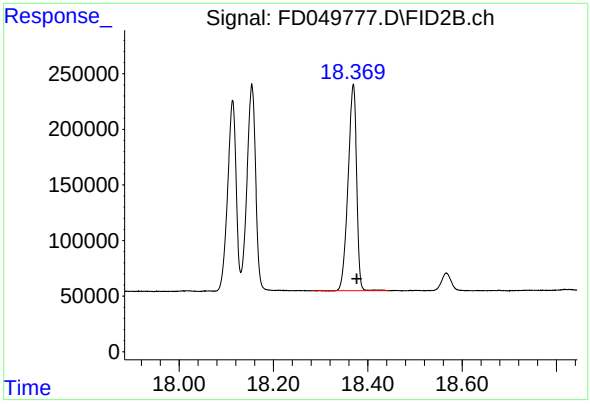
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.113 min
Delta R.T.: -0.008 min
Response: 2146819
Conc: 19.73 ug/ml



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

R.T.: 18.154 min
Delta R.T.: -0.008 min
Response: 2355279
Conc: 20.67 ug/ml



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

R.T.: 18.369 min
Delta R.T.: -0.008 min
Response: 2335279
Conc: 20.07 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD093025AR\
Data File : FD049777.D
Signal(s) : FID2B.ch
Acq On : 30 Sep 2025 09:04
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 090425.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	4.484	4.418	4.561	BB	267637	2278335	76.50%	4.255%
2	6.028	5.961	6.098	BB	294213	2640936	88.67%	4.932%
3	7.082	7.041	7.144	BB	283978	2768911	92.97%	5.171%
4	7.693	7.551	7.741	BB	252630	2376032	79.78%	4.438%
5	8.361	8.298	8.438	BB	299686	2944120	98.85%	5.499%
6	8.557	8.481	8.621	BB	174548	1692914	56.84%	3.162%
7	8.657	8.621	8.714	BB	293948	2913409	97.82%	5.441%
8	9.438	9.368	9.504	BB	293338	2901423	97.42%	5.419%
9	10.836	10.794	10.881	VV	285462	2902704	97.46%	5.421%
10	10.911	10.881	10.978	VB	246771	2589785	86.96%	4.837%
11	11.604	11.514	11.661	BB	284928	2978293	100.00%	5.562%
12	12.650	12.616	12.698	VB	261370	2832339	95.10%	5.290%
13	12.948	12.871	12.984	BV	257975	2804808	94.18%	5.238%
14	14.821	14.768	14.841	BV	209441	2447055	82.16%	4.570%
15	14.863	14.841	14.934	VB	229218	2516573	84.50%	4.700%
16	16.371	16.278	16.387	BV	189778	2452236	82.34%	4.580%
17	16.404	16.387	16.468	VB	207878	2305737	77.42%	4.306%
18	16.750	16.671	16.811	BB	196900	2360032	79.24%	4.408%
19	18.113	17.944	18.131	BV	172444	2146819	72.08%	4.010%
20	18.154	18.131	18.224	VB	185421	2355279	79.08%	4.399%
21	18.369	18.284	18.444	BB	183726	2335279	78.41%	4.362%
			Sum of corrected areas:			53543017		

Aromatic EPH 090425.M Wed Oct 01 03:54:59 2025

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

Continuing Calibration Report for SequenceID : FD093025AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049780.D**						
Aromatic C10-C12	4941191.000	40.000	4.384	6.128	123529.775	116056.185	-6.440
Aromatic C12-C16	8656586.000	60.000	6.129	8.757	144276.433	135865.661	-6.191
Aromatic C16-C21	11260309.000	80.000	8.758	13.048	140753.863	135770.533	-3.670
Aromatic C21-C36	21968202.000	180.000	13.049	18.469	122045.567	118321.901	-3.147
Aromatic EPH	46826288.000	360.000	4.384	18.469	130073.022	124871.589	-4.165

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:	30 Sep 2025 11:12
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049780.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.384	6.128	4941191.000	40.000	ug/ml
Aromatic C12-C16	6.129	8.757	8656586.000	60.000	ug/ml
Aromatic C16-C21	8.758	13.048	11260309.000	80.000	ug/ml
Aromatic C21-C36	13.049	18.469	21968202.000	180.000	ug/ml
Aromatic EPH	4.384	18.469	46826288.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD093025AR\
Data File : FD049780.D
Signal(s) : FID2B.ch
Acq On : 30 Sep 2025 11:12
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: Oct 01 02:51:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
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...	7.694	2395273	21.298 ug/ml
Spiked Amount	50.000		Recovery =	42.60%
6) S	2-Flurobiphenyl (SURR)	8.558	1707426	21.271 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	42.54%
11) S	ortho-Terphenyl (SURR)	11.605	2988385	21.122 ug/ml
Spiked Amount	50.000		Recovery =	42.24%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.486	2281900	21.177 ug/ml
2) T	Naphthalene (C11.7)	6.029	2659291	21.384 ug/ml
3) T	2-Methylnaphthalene (...	7.083	2787924	21.391 ug/ml
5) T	Acenaphthylene (C15.06)	8.362	2945429	21.245 ug/ml
7) T	Acenaphthene (C15.5)	8.658	2923233	21.088 ug/ml
8) T	Flouorene (C16.55)	9.439	2917448	21.032 ug/ml
9) T	Phenanthrene (C19.36)	10.837	2918482	20.951 ug/ml
10) T	Anthracene (C19.43)	10.912	2609494	19.763 ug/ml
12) T	Fluoranthene (C21.85)	12.651	2845468	21.129 ug/ml
13) T	Pyrene (C20.8)	12.949	2814885	21.161 ug/ml
14) T	Benzo[a]anthracene (C...	14.821	2481055	20.747 ug/ml
15) T	Chrysene (C27.41)	14.864	2538494	20.867 ug/ml
16) T	benzo[b]fluoranthene ...	16.373	2472493	20.627 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.405	2330527	20.684 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.751	2381082	20.291 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.115	2173014	19.974 ug/ml
20) T	Dibenz[a,h]anthracene...	18.155	2397171	21.037 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.371	2348898	20.187 ug/ml

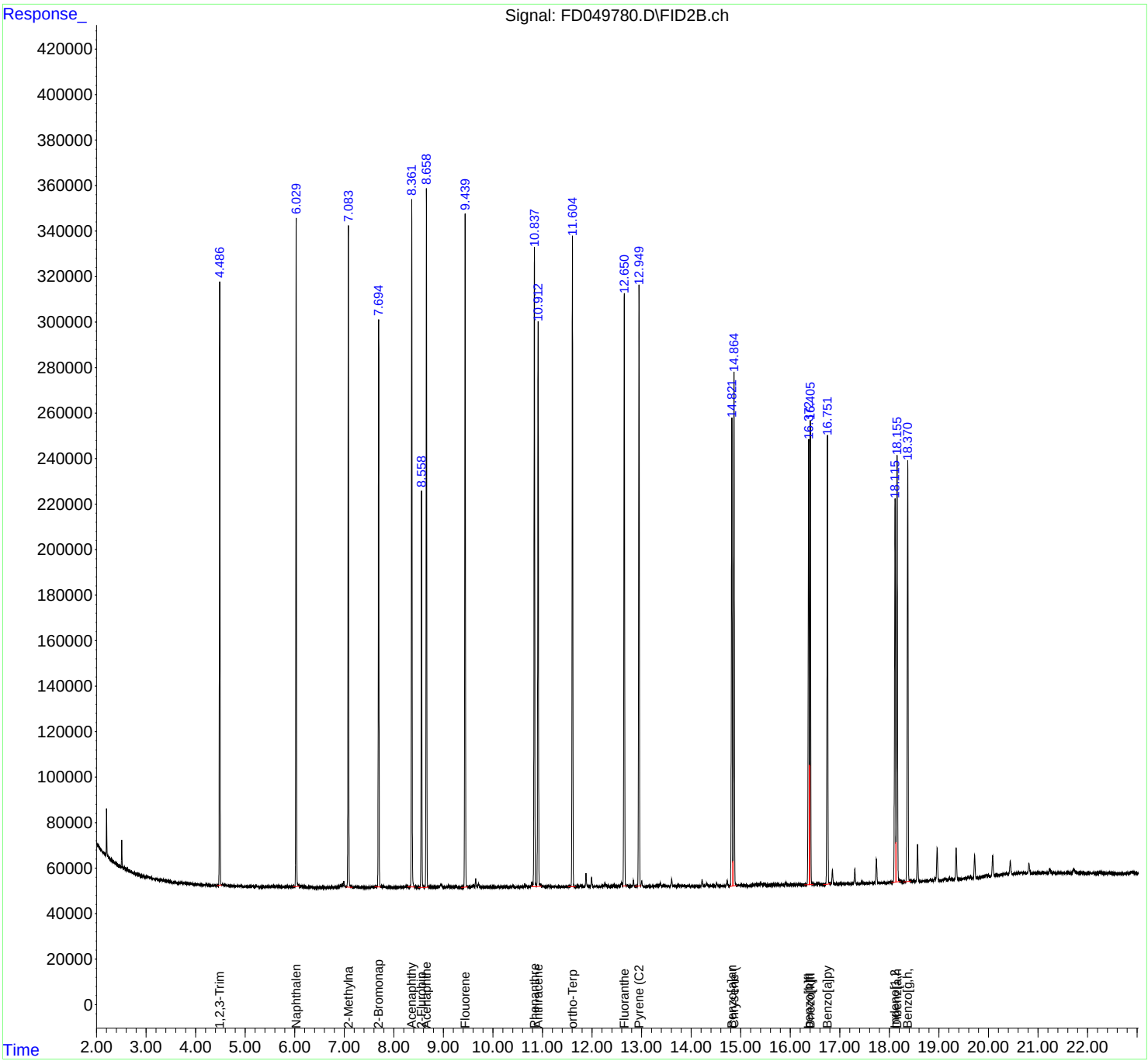
(f)=RT Delta > 1/2 Window (m)=manual int.

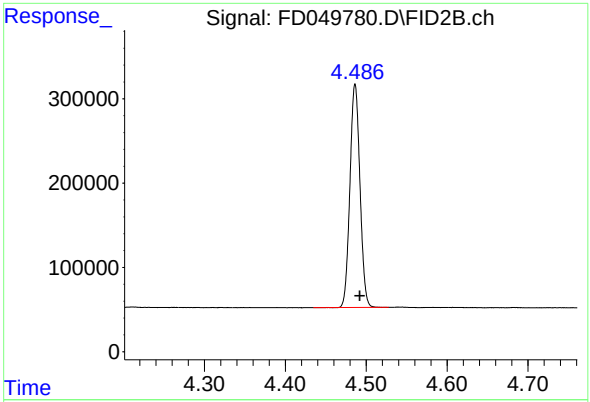
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD093025AR\
Data File : FD049780.D
Signal(s) : FID2B.ch
Acq On : 30 Sep 2025 11:12
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 01 02:51:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

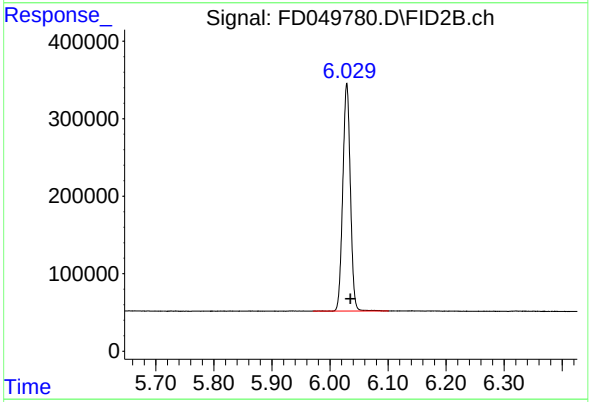




#1 1,2,3-Trimethylbenzene (C10.1)

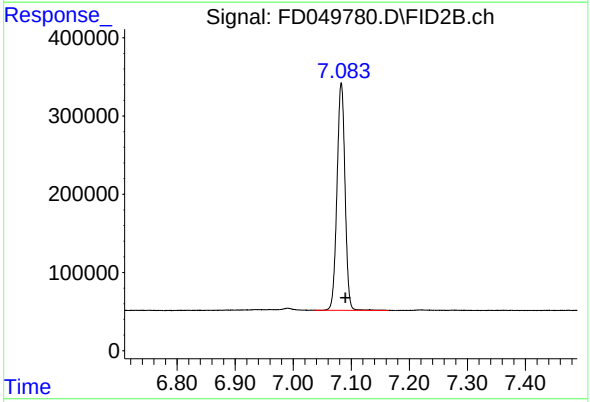
R.T.: 4.486 min
Delta R.T.: -0.006 min
Response: 2281900
Conc: 21.18 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



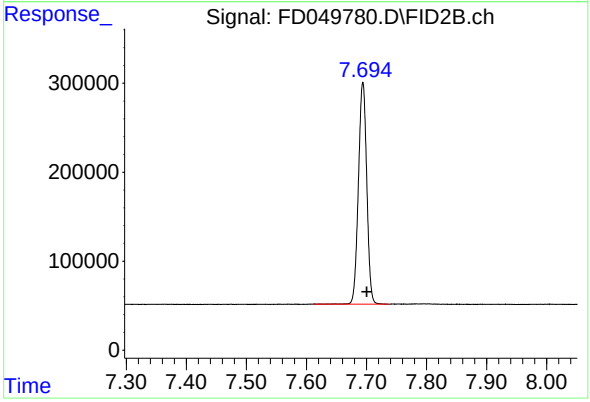
#2 Naphthalene (C11.7)

R.T.: 6.029 min
Delta R.T.: -0.006 min
Response: 2659291
Conc: 21.38 ug/ml



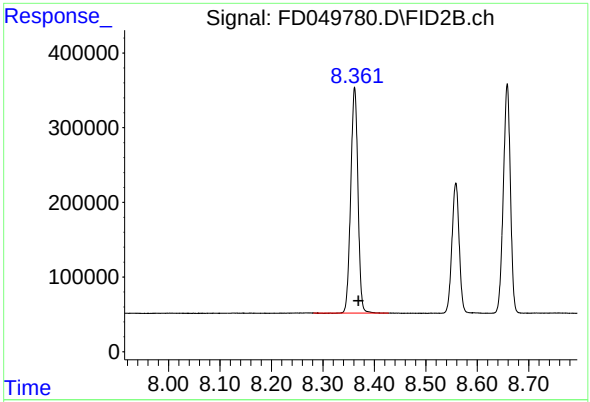
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.083 min
Delta R.T.: -0.007 min
Response: 2787924
Conc: 21.39 ug/ml



#4 2-Bromonaphthalene (SURR)

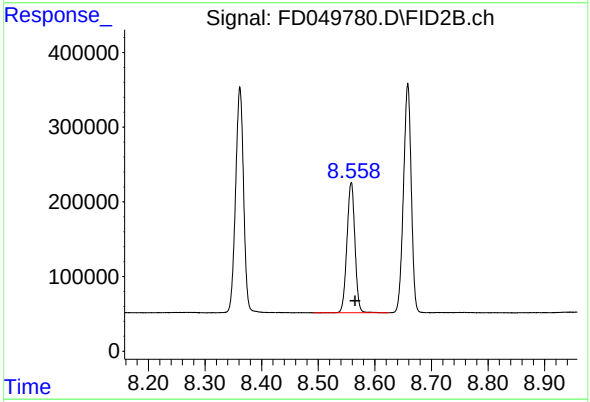
R.T.: 7.694 min
Delta R.T.: -0.007 min
Response: 2395273
Conc: 21.30 ug/ml



#5 Acenaphthylene (C15.06)

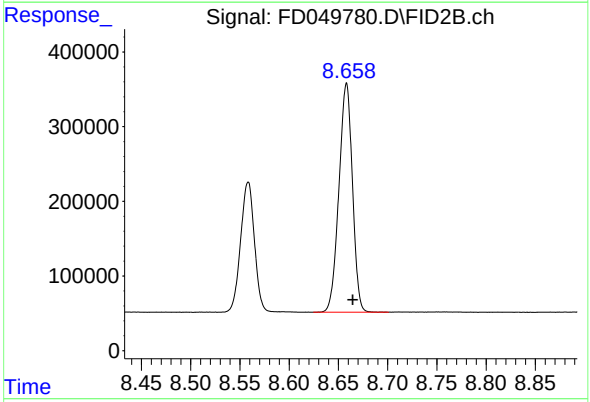
R.T.: 8.362 min
Delta R.T.: -0.007 min
Response: 2945429
Conc: 21.25 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



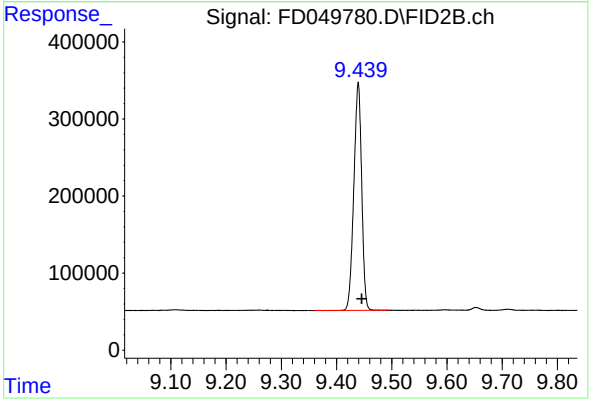
#6 2-Flurobiphenyl (SURR)

R.T.: 8.558 min
Delta R.T.: -0.007 min
Response: 1707426
Conc: 21.27 ug/ml



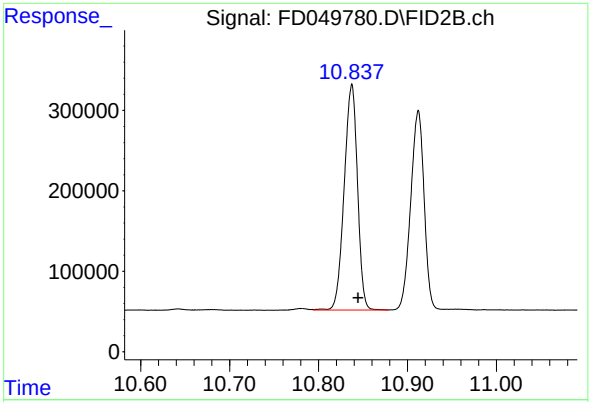
#7 Acenaphthene (C15.5)

R.T.: 8.658 min
Delta R.T.: -0.007 min
Response: 2923233
Conc: 21.09 ug/ml



#8 Flouorene (C16.55)

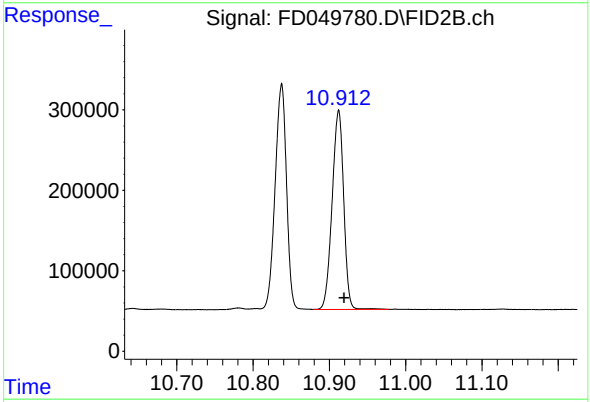
R.T.: 9.439 min
Delta R.T.: -0.007 min
Response: 2917448
Conc: 21.03 ug/ml



#9 Phenanthrene (C19.36)

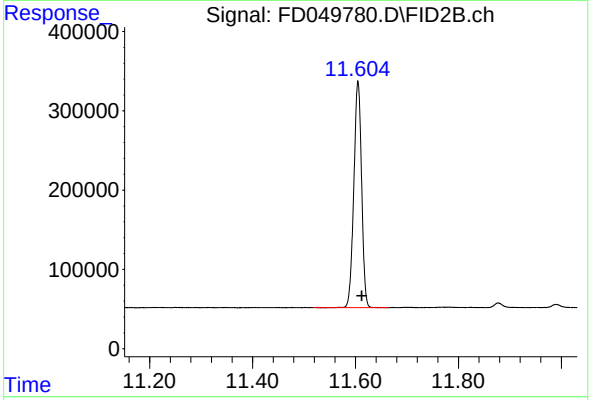
R.T.: 10.837 min
Delta R.T.: -0.007 min
Response: 2918482
Conc: 20.95 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



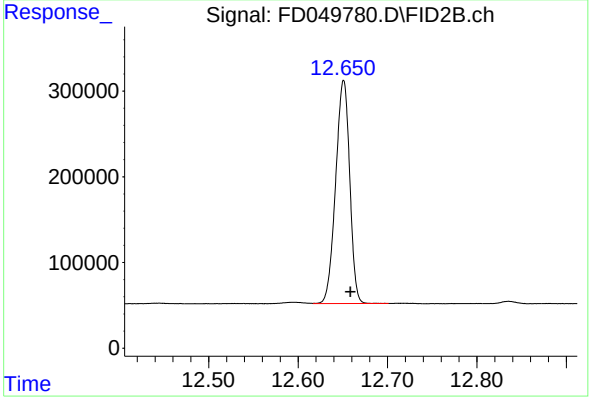
#10 Anthracene (C19.43)

R.T.: 10.912 min
Delta R.T.: -0.007 min
Response: 2609494
Conc: 19.76 ug/ml



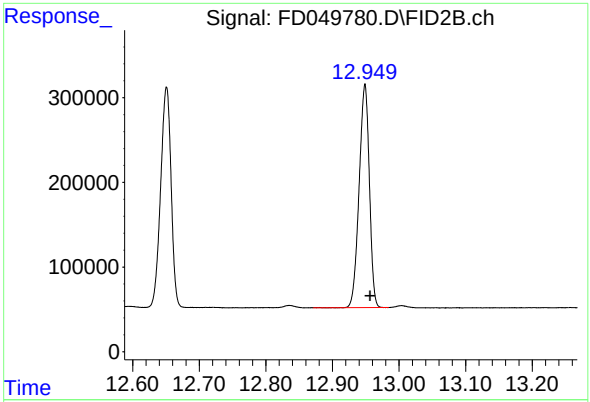
#11 ortho-Terphenyl (SURR)

R.T.: 11.605 min
Delta R.T.: -0.007 min
Response: 2988385
Conc: 21.12 ug/ml



#12 Fluoranthene (C21.85)

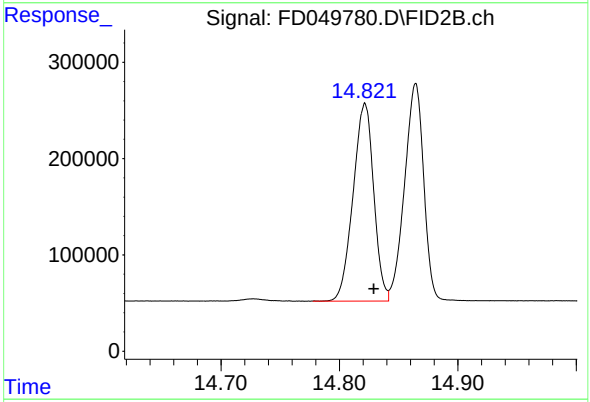
R.T.: 12.651 min
Delta R.T.: -0.008 min
Response: 2845468
Conc: 21.13 ug/ml



#13 Pyrene (C20.8)

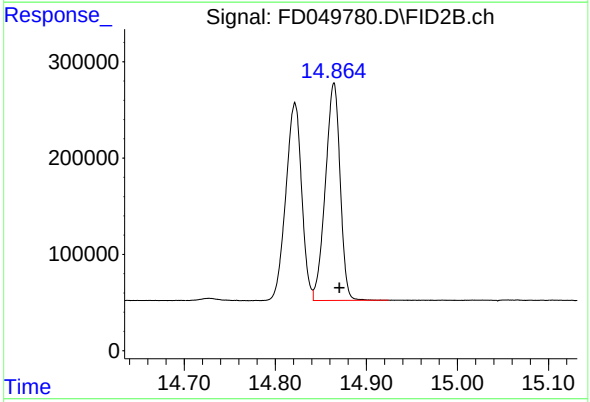
R.T.: 12.949 min
Delta R.T.: -0.008 min
Response: 2814885
Conc: 21.16 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



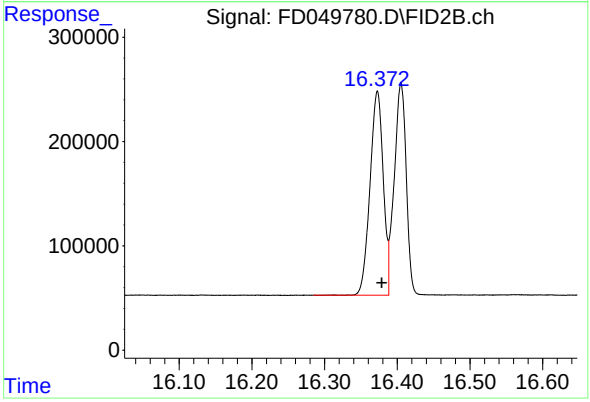
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.821 min
Delta R.T.: -0.008 min
Response: 2481055
Conc: 20.75 ug/ml



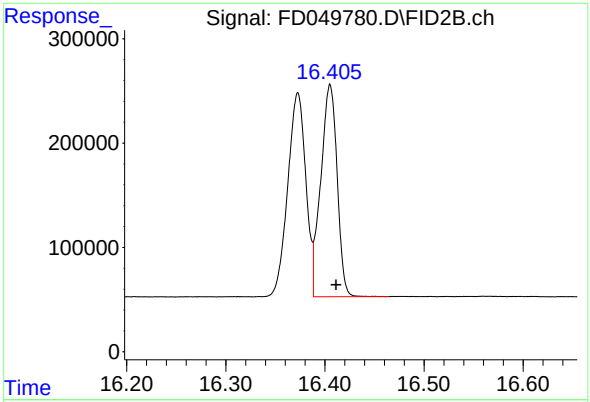
#15 Chrysene (C27.41)

R.T.: 14.864 min
Delta R.T.: -0.006 min
Response: 2538494
Conc: 20.87 ug/ml



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

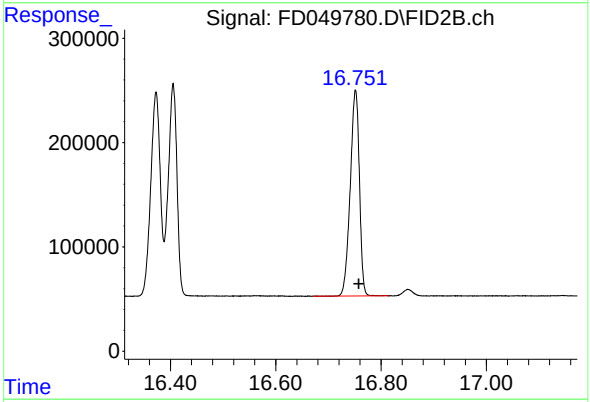
R.T.: 16.373 min
Delta R.T.: -0.006 min
Response: 2472493
Conc: 20.63 ug/ml



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

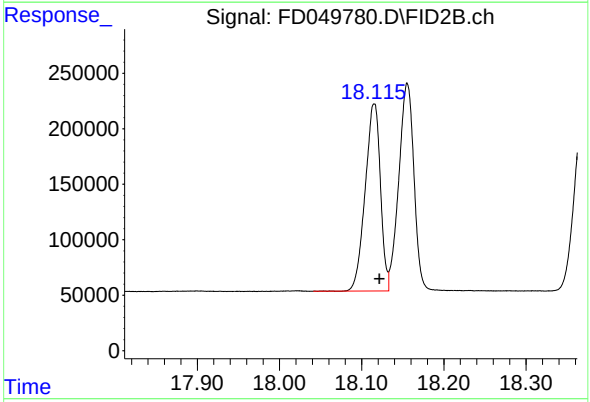
R.T.: 16.405 min
Delta R.T.: -0.006 min
Response: 2330527
Conc: 20.68 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



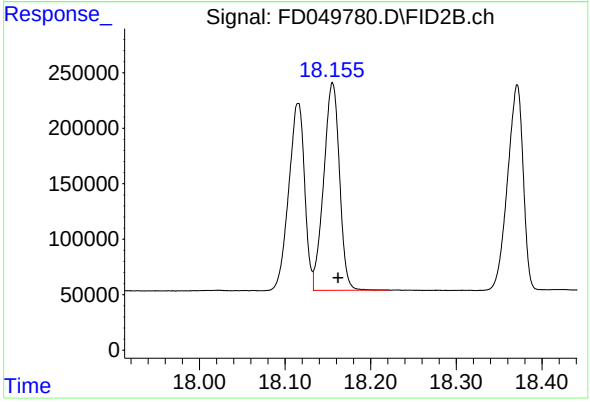
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.751 min
Delta R.T.: -0.007 min
Response: 2381082
Conc: 20.29 ug/ml



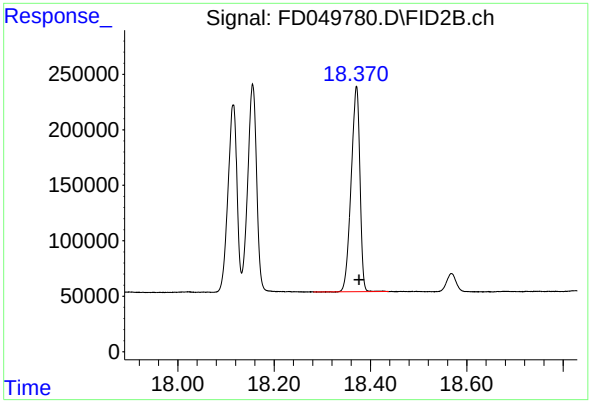
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.115 min
Delta R.T.: -0.007 min
Response: 2173014
Conc: 19.97 ug/ml



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

R.T.: 18.155 min
Delta R.T.: -0.006 min
Response: 2397171
Conc: 21.04 ug/ml



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

R.T.: 18.371 min
Delta R.T.: -0.006 min
Response: 2348898
Conc: 20.19 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD093025AR\
Data File : FD049780.D
Signal(s) : FID2B.ch
Acq On : 30 Sep 2025 11:12
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 090425.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	4.486	4.434	4.528	BV	262903	2281900	76.36%	4.232%
2	6.029	5.971	6.101	BB	290523	2659291	88.99%	4.932%
3	7.083	7.034	7.164	BB	290769	2787924	93.29%	5.171%
4	7.694	7.611	7.737	BB	249780	2395273	80.15%	4.442%
5	8.362	8.281	8.428	BB	300663	2945429	98.56%	5.463%
6	8.558	8.491	8.624	BB	174133	1707426	57.14%	3.167%
7	8.658	8.624	8.701	BB	305813	2923233	97.82%	5.422%
8	9.439	9.358	9.494	BB	290186	2917448	97.63%	5.411%
9	10.837	10.794	10.879	VV	281147	2918482	97.66%	5.413%
10	10.912	10.879	10.978	VB	245788	2609494	87.32%	4.840%
11	11.605	11.518	11.664	BB	285172	2988385	100.00%	5.543%
12	12.651	12.617	12.701	VB	261553	2845468	95.22%	5.277%
13	12.949	12.871	12.984	BV	261449	2814885	94.19%	5.221%
14	14.821	14.778	14.842	BV	204789	2481055	83.02%	4.602%
15	14.864	14.842	14.924	VB	226483	2538494	84.95%	4.708%
16	16.373	16.284	16.388	BV	194512	2472493	82.74%	4.586%
17	16.405	16.388	16.464	VB	202720	2330527	77.99%	4.322%
18	16.751	16.671	16.814	BB	197242	2381082	79.68%	4.416%
19	18.115	18.041	18.133	BV	169435	2173014	72.72%	4.030%
20	18.155	18.133	18.221	VB	186753	2397171	80.22%	4.446%
21	18.371	18.281	18.438	BB	186076	2348898	78.60%	4.356%
			Sum of corrected areas:			53917370		

Aromatic EPH 090425.M Wed Oct 01 03:55:43 2025

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

Continuing Calibration Report for SequenceID : FE092925AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE056035.D**						
Aliphatic C12-C16	5565780.000	40.000	6.947	10.396	139144.500	153376.491	9.279
Aliphatic C16-C21	9381446.000	60.000	10.397	13.773	156357.433	165879.737	5.740
Aliphatic C21-C28	12153072.000	80.000	13.774	17.443	151913.400	148527.151	-2.280
Aliphatic C28-C40	17347687.000	120.000	17.444	22.449	144564.058	136251.923	-6.101
Aliphatic EPH	52077379.000	360.000	3.315	22.449	144659.386	146449.789	1.223
Aliphatic C9-C12	7629394.000	60.000	3.315	6.946	127156.567	140027.957	9.192

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:	29 Sep 2025 09:17
Client Sample ID:		Operator:	YP\AJ
Data file:	FE056035.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.315	6.946	7629394.000	60.000	ug/ml
Aliphatic C12-C16	6.947	10.396	5565780.000	40.000	ug/ml
Aliphatic C16-C21	10.397	13.773	9381446.000	60.000	ug/ml
Aliphatic C21-C28	13.774	17.443	12153072.000	80.000	ug/ml
Aliphatic C28-C40	17.444	22.449	17347687.000	120.000	ug/ml
Aliphatic EPH	3.315	22.449	52077379.000	360.000	ug/ml

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

Continuing Calibration Report for SequenceID : FE092925AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE056045.D**						
Aliphatic C12-C16	5652856.000	40.000	6.947	10.396	141321.400	153376.491	7.860
Aliphatic C16-C21	9543106.000	60.000	10.397	13.773	159051.767	165879.737	4.116
Aliphatic C21-C28	11632420.000	80.000	13.774	17.443	145405.250	148527.151	2.102
Aliphatic C28-C40	15735127.000	120.000	17.444	22.449	131126.058	136251.923	3.762
Aliphatic EPH	49968663.000	360.000	3.315	22.449	138801.842	146449.789	5.222
Aliphatic C9-C12	7405154.000	60.000	3.315	6.946	123419.233	140027.957	11.861

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:	29 Sep 2025 14:51
Client Sample ID:		Operator:	YP\AJ
Data file:	FE056045.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.315	6.946	7405154.000	60.000	ug/ml
Aliphatic C12-C16	6.947	10.396	5652856.000	40.000	ug/ml
Aliphatic C16-C21	10.397	13.773	9543106.000	60.000	ug/ml
Aliphatic C21-C28	13.774	17.443	11632420.000	80.000	ug/ml
Aliphatic C28-C40	17.444	22.449	15735127.000	120.000	ug/ml
Aliphatic EPH	3.315	22.449	49968663.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056045.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 14:51
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e
Quant Time: Sep 30 00:27:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	12.073	3631951	19.355 ug/ml
Spiked Amount	50.000		Recovery =	38.71%
12)	S 1-chlorooctadecane (S...	13.510	2778384	19.907 ug/ml
Spiked Amount	50.000		Recovery =	39.81%
	Target Compounds			
1)	T n-Nonane (C9)	3.415	2399386	17.515 ug/ml
2)	T n-Decane (C10)	4.673	2449352	17.550 ug/ml
3)	T A~Naphthalene (C11.7)	6.392	2909611	18.223 ug/ml
4)	T n-Dodecane (C12)	6.847	2556416	17.811 ug/ml
5)	T A~2-methylnaphthalene...	7.492	2880483	18.522 ug/ml
6)	T n-Tetradecane (C14)	8.683	2694482	18.225 ug/ml
7)	T n-Hexadecane (C16)	10.297	2958374	18.617 ug/ml
8)	T n-Octadecane (C18)	11.746	3193721	18.855 ug/ml
10)	T n-Eicosane (C20)	13.061	3201634	19.314 ug/ml
11)	T n-Heneicosane (C21)	13.675	3147751	19.372 ug/ml
13)	T n-Docosane (C22)	14.263	3123976	19.550 ug/ml
14)	T n-Tetracosane (C24)	15.370	3016987	19.799 ug/ml
15)	T n-Hexacosane (C26)	16.394	2798837	19.623 ug/ml
16)	T n-Octacosane (C28)	17.346	2692620	19.329 ug/ml
17)	T n-Tricontane (C30)	18.236	2807440	18.946 ug/ml
18)	T n-Dotriacontane (C32)	19.069	2842806	19.054 ug/ml
19)	T n-Tetratriacontane (C34)	19.855	2739796	19.369 ug/ml
20)	T n-Hexatriacontane (C36)	20.596	2560757	19.948 ug/ml
21)	T n-Octatriacontane (C38)	21.371	2346046	17.862 ug/mlm
22)	T n-Tetracontane (C40)	22.357	2438282	20.495 ug/mlm

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056045.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 14:51
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

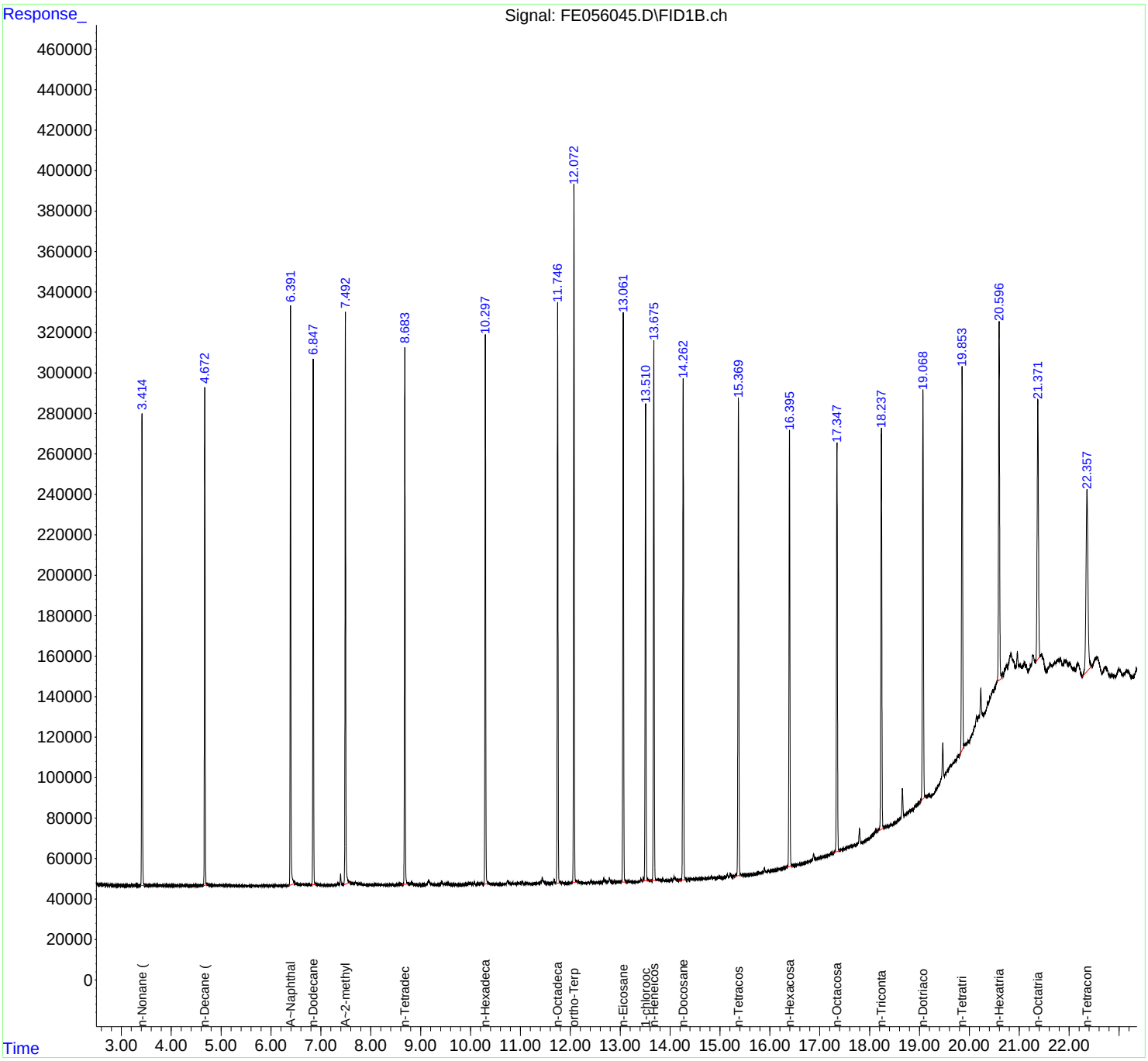
Integration File: autoint1.e
Quant Time: Sep 30 00:27:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

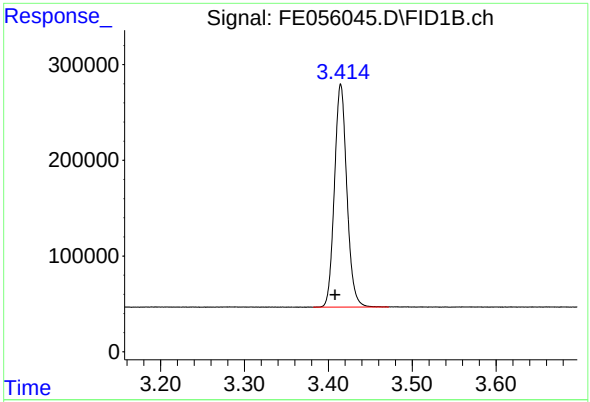
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025





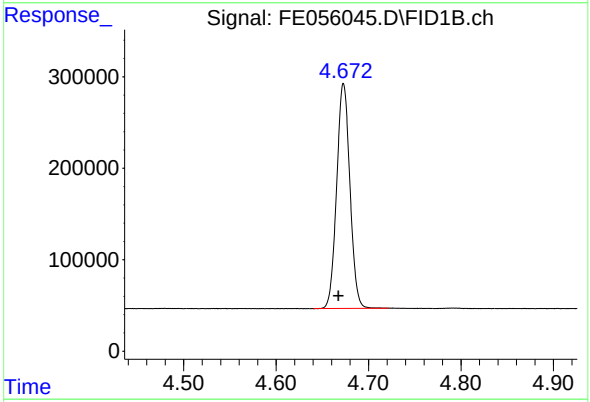
#1 n-Nonane (C9)

R.T.: 3.415 min
Delta R.T.: 0.007 min
Response: 2399386
Conc: 17.51 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

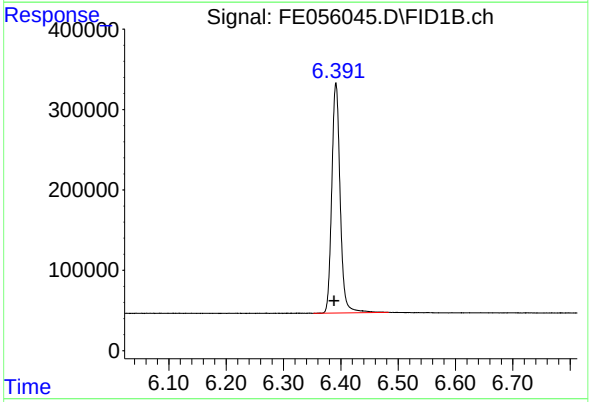
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



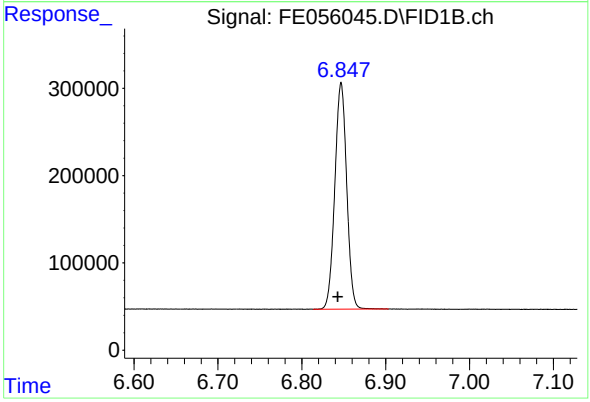
#2 n-Decane (C10)

R.T.: 4.673 min
Delta R.T.: 0.006 min
Response: 2449352
Conc: 17.55 ug/ml



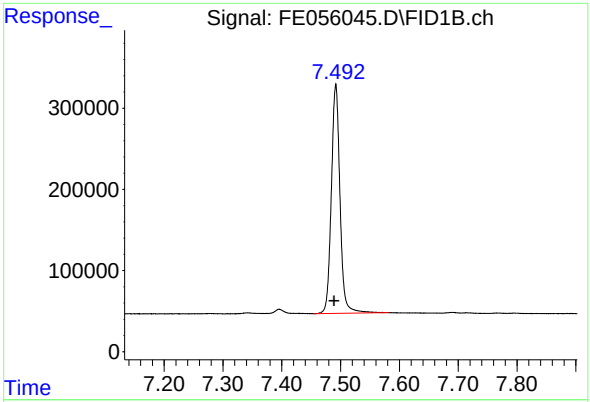
#3 A~Naphthalene (C11.7)

R.T.: 6.392 min
Delta R.T.: 0.003 min
Response: 2909611
Conc: 18.22 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.847 min
Delta R.T.: 0.004 min
Response: 2556416
Conc: 17.81 ug/ml



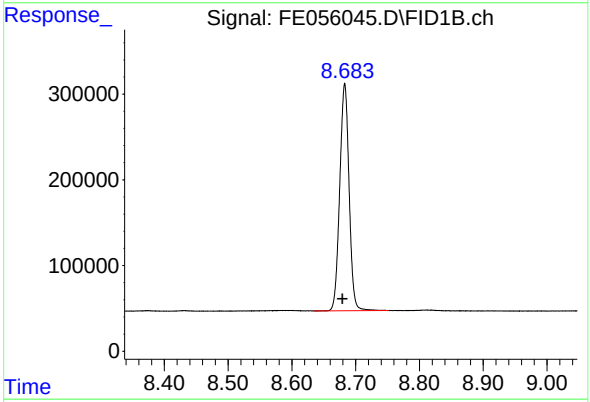
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.492 min
Delta R.T.: 0.003 min
Response: 2880483
Conc: 18.52 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

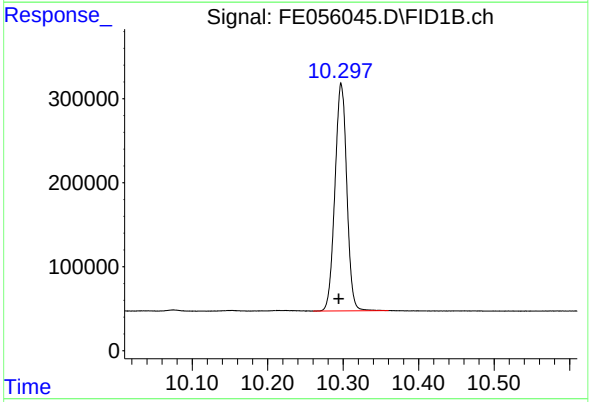
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



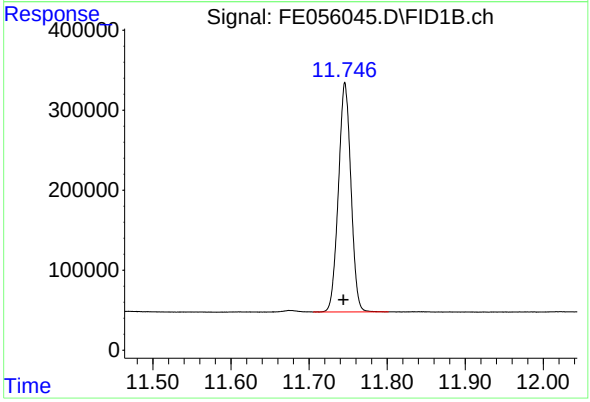
#6 n-Tetradecane (C14)

R.T.: 8.683 min
Delta R.T.: 0.003 min
Response: 2694482
Conc: 18.23 ug/ml



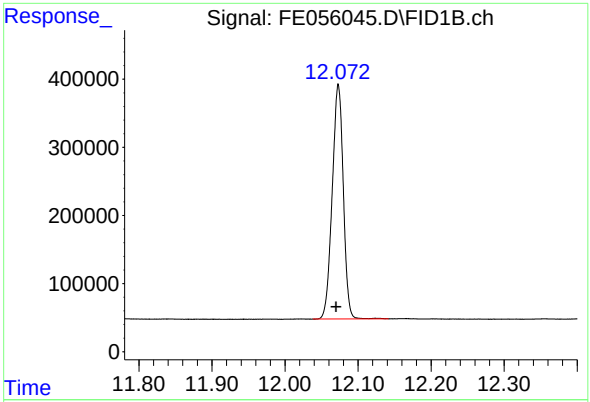
#7 n-Hexadecane (C16)

R.T.: 10.297 min
Delta R.T.: 0.003 min
Response: 2958374
Conc: 18.62 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.746 min
Delta R.T.: 0.002 min
Response: 3193721
Conc: 18.85 ug/ml



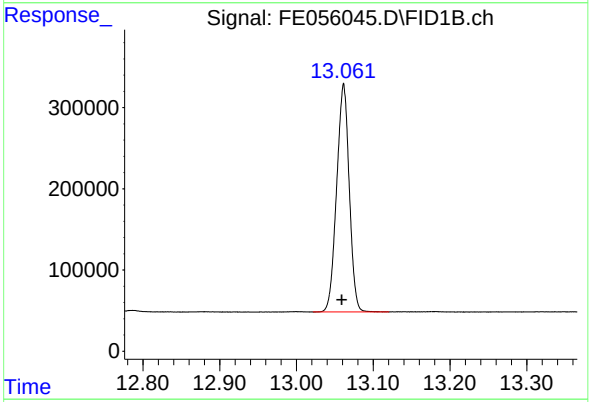
#9 ortho-Terphenyl (SURR)

R.T.: 12.073 min
Delta R.T.: 0.003 min
Response: 3631951
Conc: 19.35 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

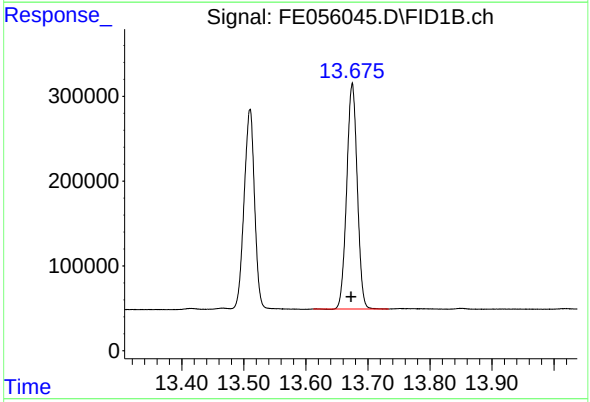
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



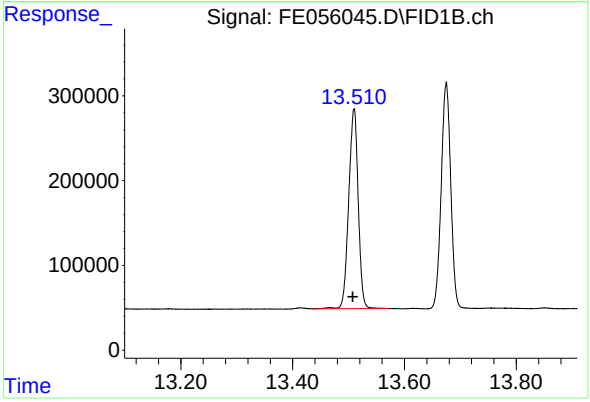
#10 n-Eicosane (C20)

R.T.: 13.061 min
Delta R.T.: 0.002 min
Response: 3201634
Conc: 19.31 ug/ml



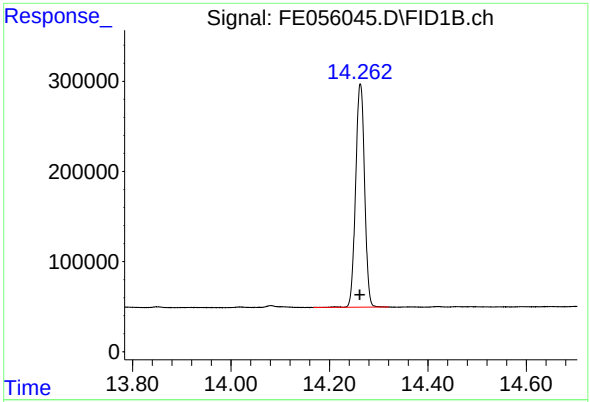
#11 n-Heneicosane (C21)

R.T.: 13.675 min
Delta R.T.: 0.002 min
Response: 3147751
Conc: 19.37 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.510 min
Delta R.T.: 0.002 min
Response: 2778384
Conc: 19.91 ug/ml



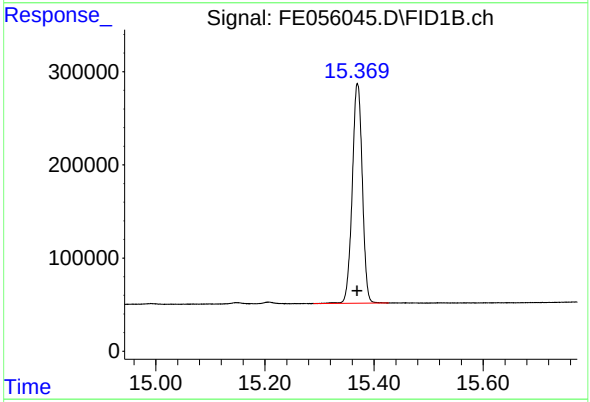
#13 n-Docosane (C22)

R.T.: 14.263 min
Delta R.T.: 0.001 min
Response: 3123976
Conc: 19.55 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

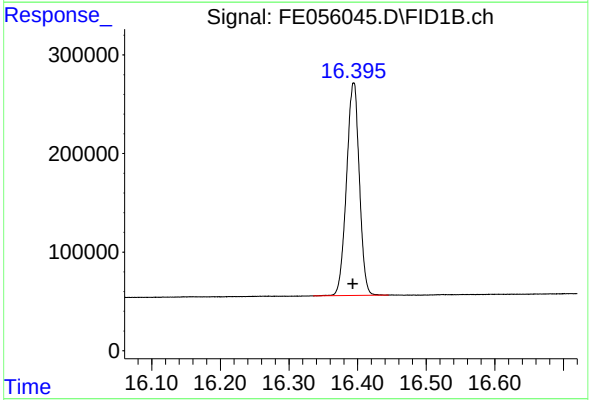
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



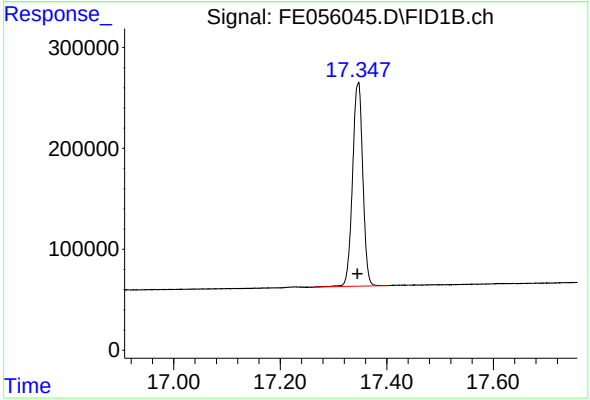
#14 n-Tetracosane (C24)

R.T.: 15.370 min
Delta R.T.: 0.001 min
Response: 3016987
Conc: 19.80 ug/ml



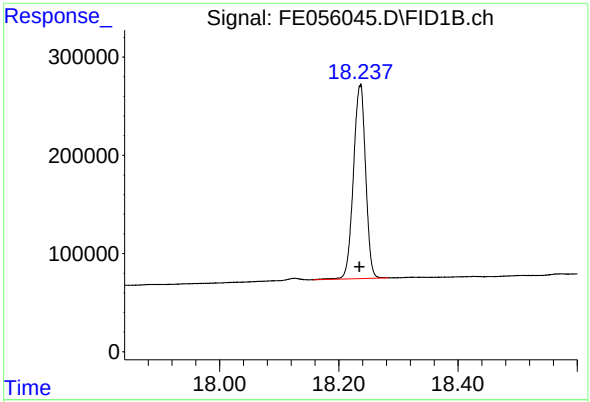
#15 n-Hexacosane (C26)

R.T.: 16.394 min
Delta R.T.: 0.001 min
Response: 2798837
Conc: 19.62 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.346 min
Delta R.T.: 0.001 min
Response: 2692620
Conc: 19.33 ug/ml



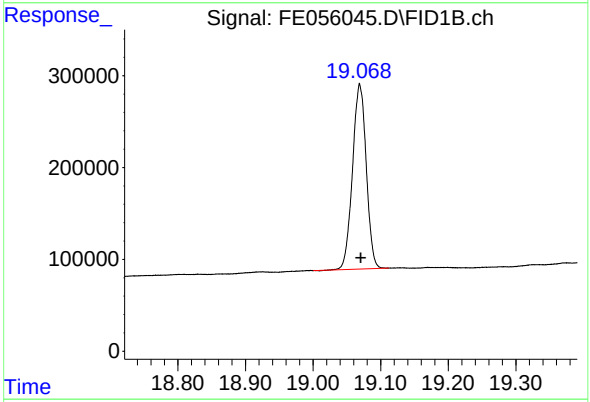
#17 n-Tricontane (C30)

R.T.: 18.236 min
Delta R.T.: 0.001 min
Response: 2807440
Conc: 18.95 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

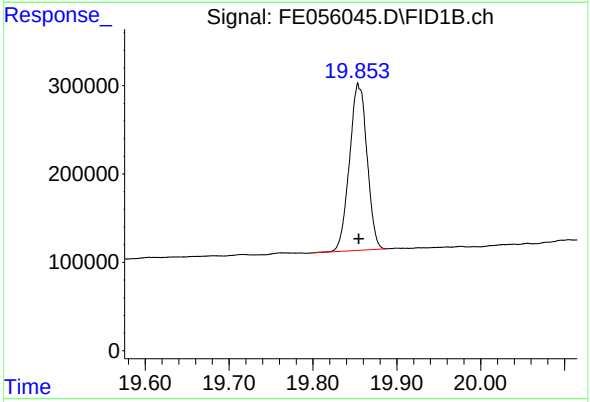
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



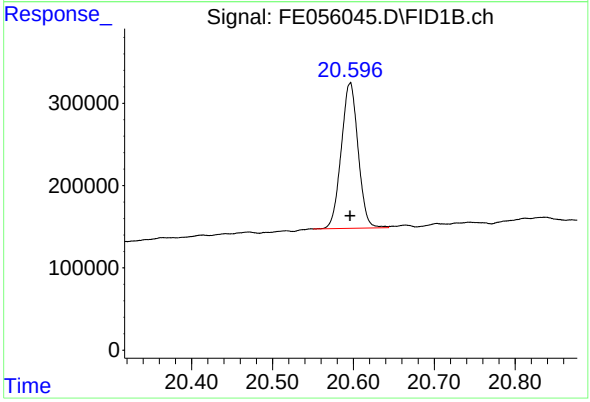
#18 n-Dotriacontane (C32)

R.T.: 19.069 min
Delta R.T.: -0.001 min
Response: 2842806
Conc: 19.05 ug/ml



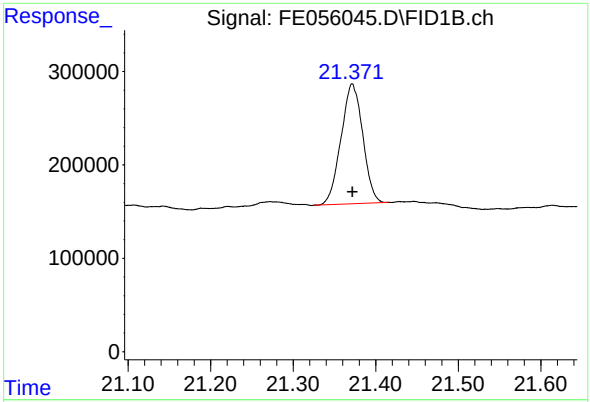
#19 n-Tetratriacontane (C34)

R.T.: 19.855 min
Delta R.T.: 0.000 min
Response: 2739796
Conc: 19.37 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.596 min
Delta R.T.: 0.000 min
Response: 2560757
Conc: 19.95 ug/ml



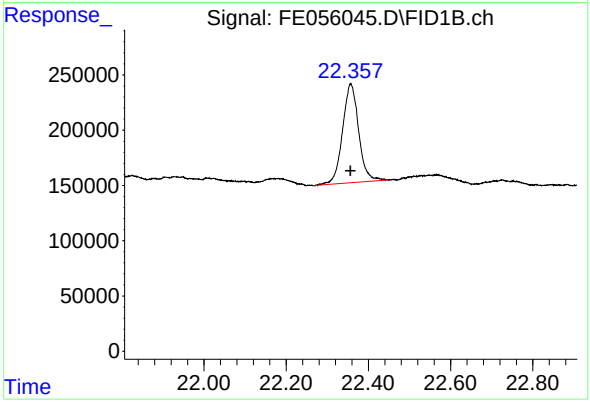
#21 n-Octatriacontane (C38)

R.T.: 21.371 min
Delta R.T.: 0.000 min
Response: 2346046
Conc: 17.86 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



#22 n-Tetracontane (C40)

R.T.: 22.357 min
Delta R.T.: 0.000 min
Response: 2438282
Conc: 20.50 ug/ml m

Instrument :
FID_E
LabSampleId :
20 PPM ALIPHATIC HC STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE09292
Data File : FE056045.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 14:51
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 092425.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	3.415	3.382	3.472	BB	232989	2399386	66.06%	3.861%
2	4.673	4.640	4.722	BB	245614	2449352	67.44%	3.942%
3	6.392	6.352	6.483	BB	286179	2909611	80.11%	4.682%
4	6.847	6.813	6.903	BB	259489	2556416	70.39%	4.114%
5	7.492	7.453	7.582	BB	281820	2880483	79.31%	4.636%
6	8.683	8.633	8.752	BB	265761	2694482	74.19%	4.336%
7	10.298	10.260	10.360	BB	271026	2958374	81.45%	4.761%
8	11.746	11.705	11.802	BB	285292	3193721	87.93%	5.140%
9	12.073	12.038	12.142	BB	344070	3631951	100.00%	5.845%
10	13.061	13.022	13.120	BB	281569	3201634	88.15%	5.152%
11	13.510	13.437	13.572	BB	236383	2778384	76.50%	4.471%
12	13.675	13.612	13.733	BB	266828	3147751	86.67%	5.066%
13	14.263	14.167	14.320	BB	247600	3123976	86.01%	5.027%
14	15.370	15.288	15.427	BB	235326	3016987	83.07%	4.855%
15	16.394	16.335	16.445	BB	216242	2798837	77.06%	4.504%
16	17.346	17.262	17.403	BB	202081	2692620	74.14%	4.333%
17	18.236	18.157	18.283	BB	196977	2807440	77.30%	4.518%
18	19.069	19.000	19.112	BB	201707	2842806	78.27%	4.575%
19	19.855	19.800	19.890	BB	183443	2739796	75.44%	4.409%
20	20.596	20.550	20.643	BV	176140	2560757	70.51%	4.121%
21	21.372	21.300	21.418	BV	127836	2307476	63.53%	3.713%
22	22.357	22.250	22.470	BV	89829	2446402	67.36%	3.937%
			Sum of corrected areas:			62138639		

Aliphatic EPH 092425.M Tue Sep 30 05:46:10 2025

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

Continuing Calibration Report for SequenceID : FE092925AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE056059.D**						
Aliphatic C12-C16	6419588.000	40.000	6.947	10.396	160489.700	153376.491	-4.638
Aliphatic C16-C21	10175583.000	60.000	10.397	13.773	169593.050	165879.737	-2.239
Aliphatic C21-C28	11474864.000	80.000	13.774	17.443	143435.800	148527.151	3.428
Aliphatic C28-C40	16792154.000	120.000	17.444	22.449	139934.617	136251.923	-2.703
Aliphatic EPH	53005288.000	360.000	3.315	22.449	147236.911	146449.789	-0.537
Aliphatic C9-C12	8143099.000	60.000	3.315	6.946	135718.317	140027.957	3.078

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:	29 Sep 2025 22:59
Client Sample ID:		Operator:	YP\AJ
Data file:	FE056059.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.315	6.946	8143099.000	60.000	ug/ml
Aliphatic C12-C16	6.947	10.396	6419588.000	40.000	ug/ml
Aliphatic C16-C21	10.397	13.773	10175583.000	60.000	ug/ml
Aliphatic C21-C28	13.774	17.443	11474864.000	80.000	ug/ml
Aliphatic C28-C40	17.444	22.449	16792154.000	120.000	ug/ml
Aliphatic EPH	3.315	22.449	53005288.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056059.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 22:59
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Sep 30 00:51:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	12.072	3783189	20.161 ug/ml
Spiked Amount	50.000		Recovery =	40.32%
12) S	1-chlorooctadecane (S...	13.509	2828662	20.268 ug/mlm
Spiked Amount	50.000		Recovery =	40.54%
	Target Compounds			
1) T	n-Nonane (C9)	3.415	2572800	18.781 ug/ml
2) T	n-Decane (C10)	4.673	2683708	19.229 ug/ml
3) T	A~Naphthalene (C11.7)	6.391	3231311	20.238 ug/ml
4) T	n-Dodecane (C12)	6.846	2886591	20.112 ug/ml
5) T	A~2-methylnaphthalene...	7.492	3198207	20.565 ug/ml
6) T	n-Tetradecane (C14)	8.682	3075507	20.802 ug/ml
7) T	n-Hexadecane (C16)	10.297	3344081	21.044 ug/ml
8) T	n-Octadecane (C18)	11.746	3534237	20.865 ug/ml
10) T	n-Eicosane (C20)	13.060	3383796	20.413 ug/ml
11) T	n-Heneicosane (C21)	13.675	3257550	20.048 ug/ml
13) T	n-Docosane (C22)	14.263	3155438	19.747 ug/ml
14) T	n-Tetracosane (C24)	15.368	2939083	19.288 ug/ml
15) T	n-Hexacosane (C26)	16.392	2709056	18.993 ug/ml
16) T	n-Octacosane (C28)	17.345	2671287	19.176 ug/ml
17) T	n-Tricontane (C30)	18.234	2878627	19.426 ug/ml
18) T	n-Dotriacontane (C32)	19.068	3057418	20.492 ug/ml
19) T	n-Tetratriacontane (C34)	19.853	2881015	20.368 ug/ml
20) T	n-Hexatriacontane (C36)	20.595	2702037	21.049 ug/ml
21) T	n-Octatriacontane (C38)	21.370	2698266	20.544 ug/ml
22) T	n-Tetracontane (C40)	22.353	2574791	21.643 ug/ml

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

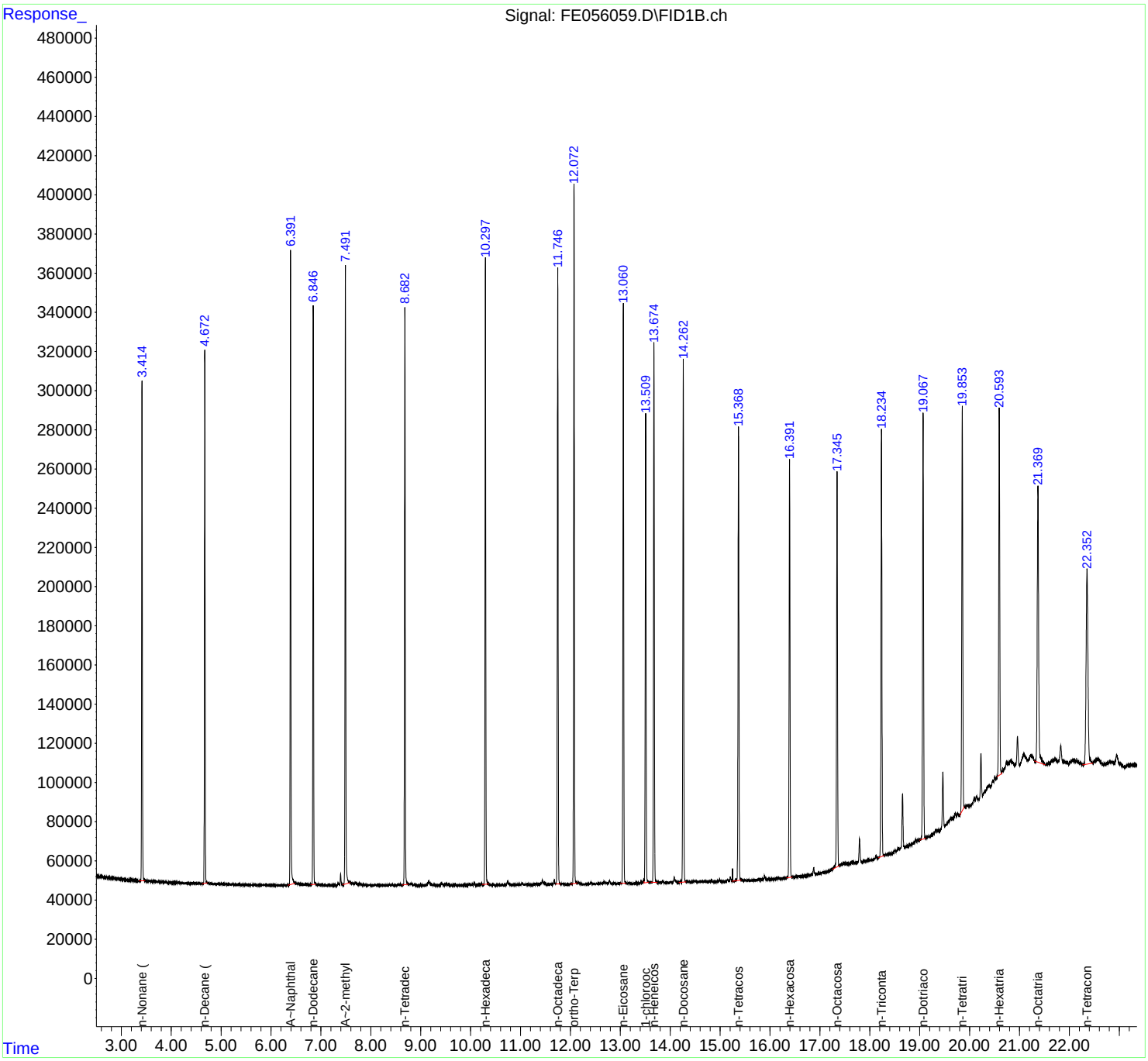
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056059.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 22:59
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

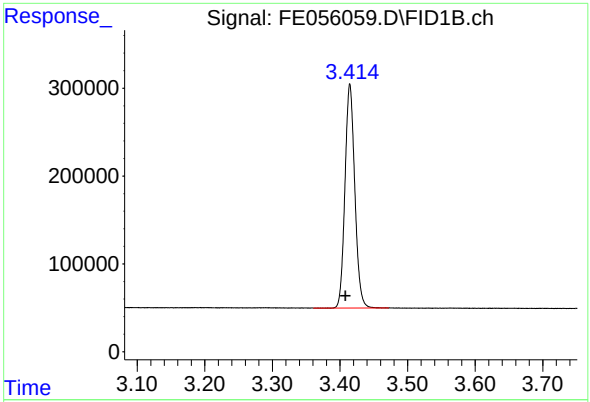
Integration File: autoint1.e
Quant Time: Sep 30 00:51:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025





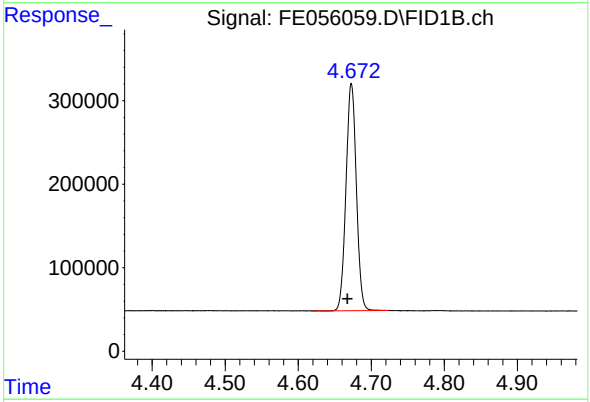
#1 n-Nonane (C9)

R.T.: 3.415 min
Delta R.T.: 0.007 min
Response: 2572800
Conc: 18.78 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

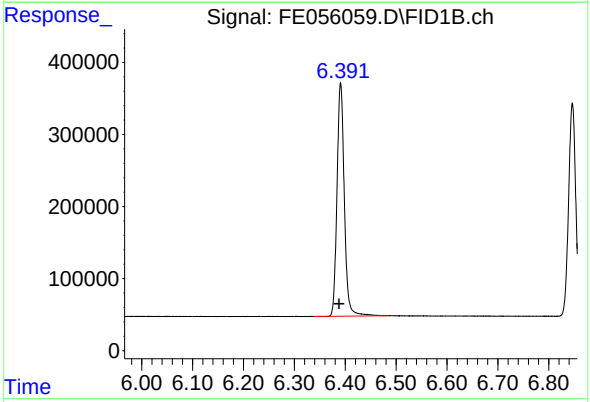
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



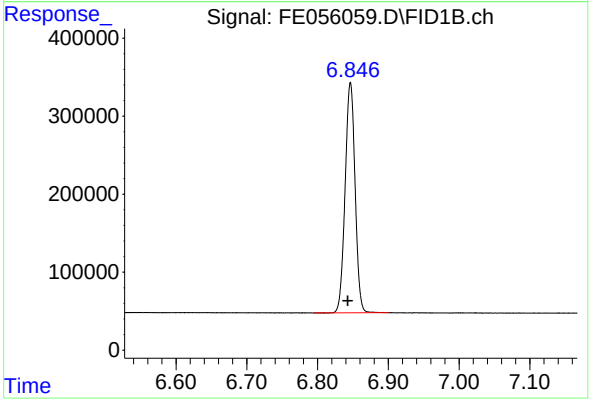
#2 n-Decane (C10)

R.T.: 4.673 min
Delta R.T.: 0.005 min
Response: 2683708
Conc: 19.23 ug/ml



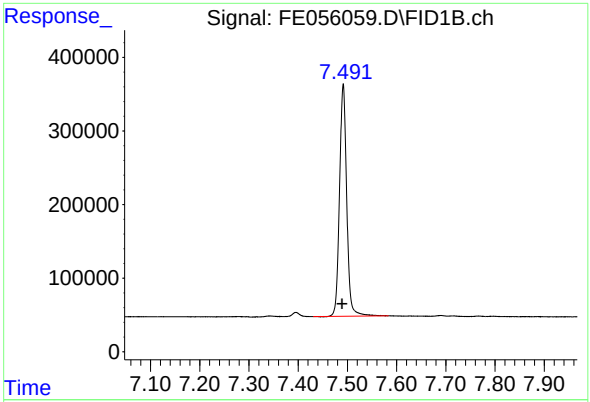
#3 A~Naphthalene (C11.7)

R.T.: 6.391 min
Delta R.T.: 0.003 min
Response: 3231311
Conc: 20.24 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.846 min
Delta R.T.: 0.004 min
Response: 2886591
Conc: 20.11 ug/ml



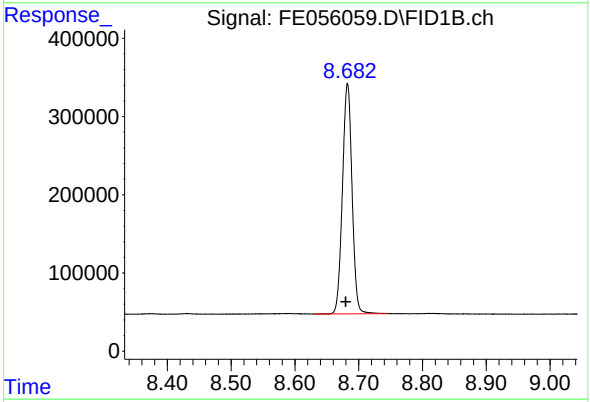
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.492 min
Delta R.T.: 0.003 min
Response: 3198207
Conc: 20.56 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

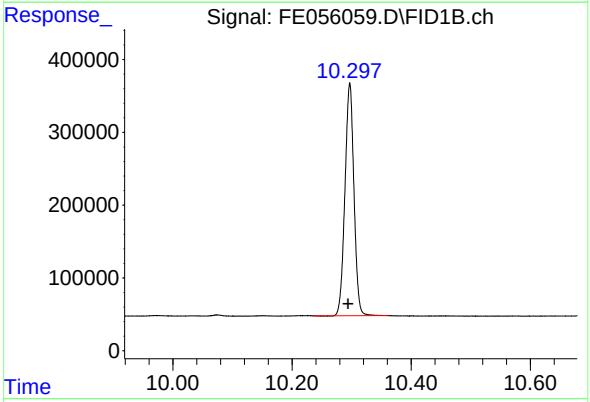
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



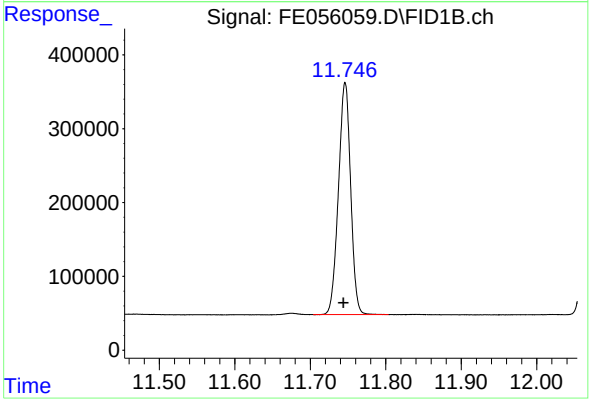
#6 n-Tetradecane (C14)

R.T.: 8.682 min
Delta R.T.: 0.003 min
Response: 3075507
Conc: 20.80 ug/ml



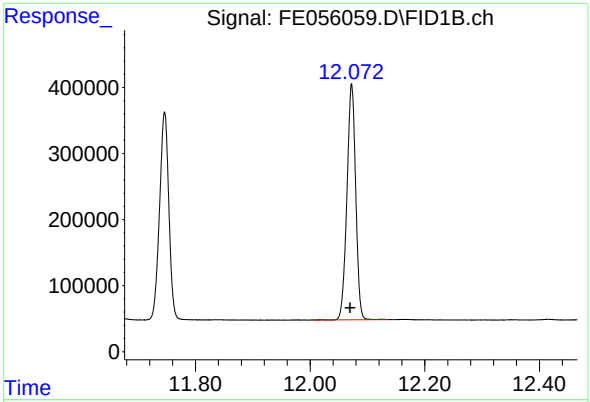
#7 n-Hexadecane (C16)

R.T.: 10.297 min
Delta R.T.: 0.003 min
Response: 3344081
Conc: 21.04 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.746 min
Delta R.T.: 0.002 min
Response: 3534237
Conc: 20.87 ug/ml



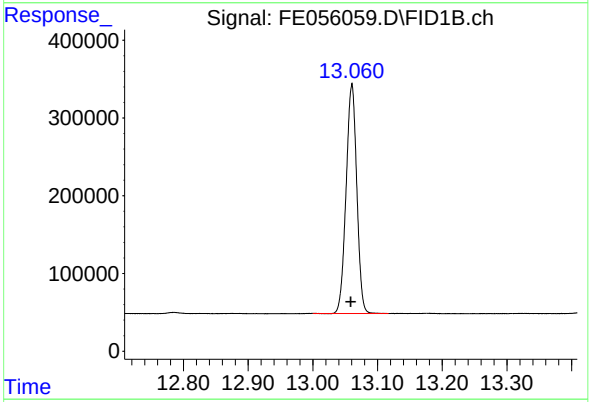
#9 ortho-Terphenyl (SURR)

R.T.: 12.072 min
Delta R.T.: 0.003 min
Response: 3783189
Conc: 20.16 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

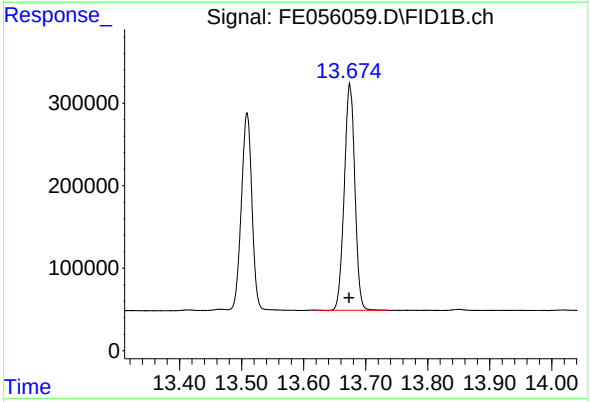
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



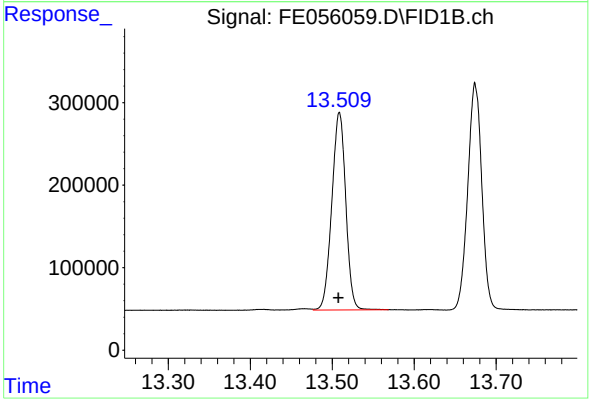
#10 n-Eicosane (C20)

R.T.: 13.060 min
Delta R.T.: 0.001 min
Response: 3383796
Conc: 20.41 ug/ml



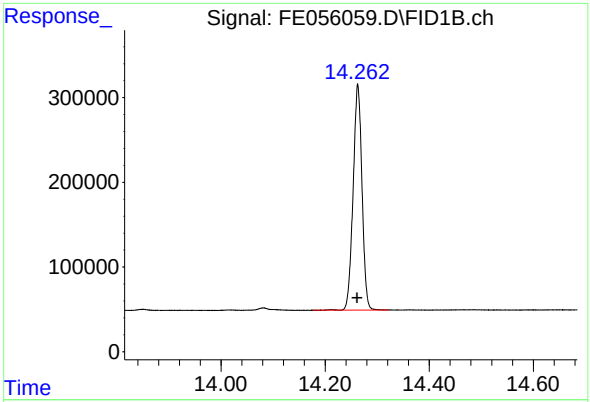
#11 n-Heneicosane (C21)

R.T.: 13.675 min
Delta R.T.: 0.001 min
Response: 3257550
Conc: 20.05 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.509 min
Delta R.T.: 0.001 min
Response: 2828662
Conc: 20.27 ug/ml m



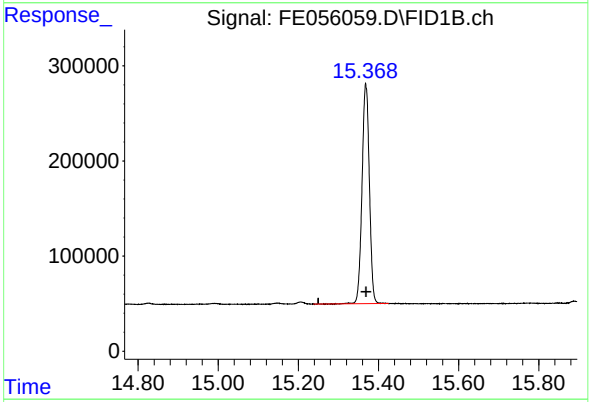
#13 n-Docosane (C22)

R.T.: 14.263 min
Delta R.T.: 0.001 min
Response: 3155438
Conc: 19.75 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

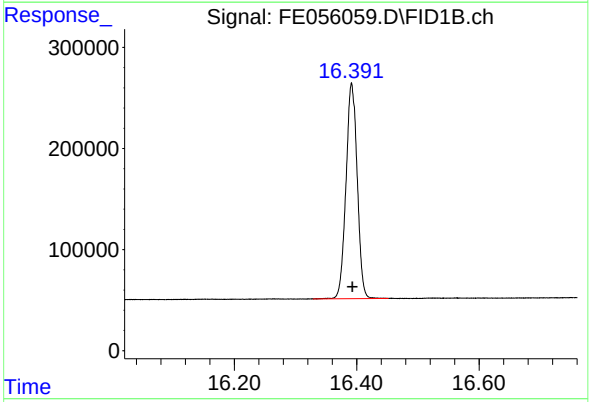
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



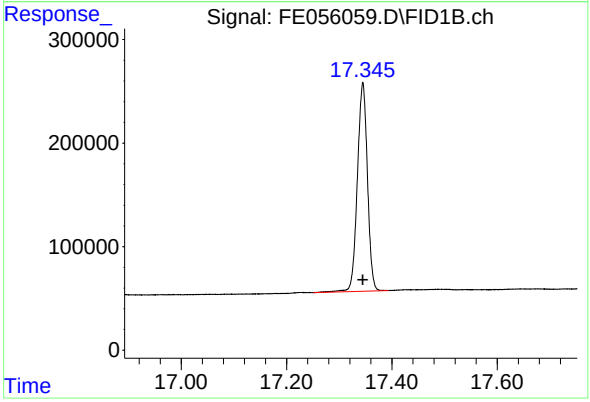
#14 n-Tetracosane (C24)

R.T.: 15.368 min
Delta R.T.: 0.000 min
Response: 2939083
Conc: 19.29 ug/ml



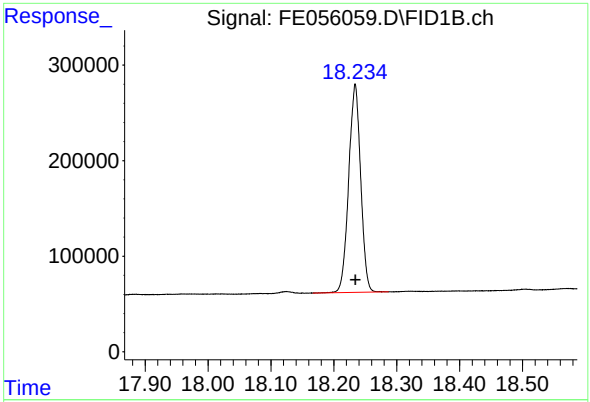
#15 n-Hexacosane (C26)

R.T.: 16.392 min
Delta R.T.: 0.000 min
Response: 2709056
Conc: 18.99 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.345 min
Delta R.T.: 0.000 min
Response: 2671287
Conc: 19.18 ug/ml



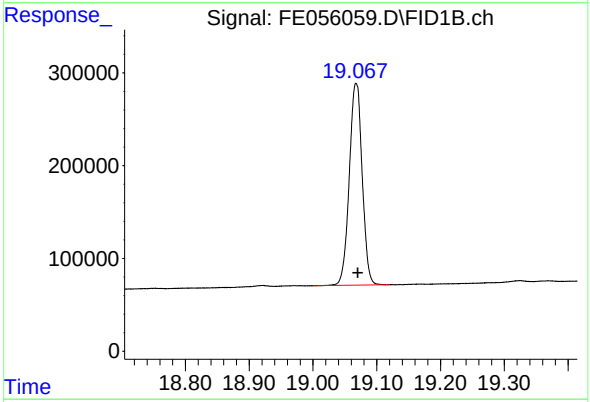
#17 n-Tricontane (C30)

R.T.: 18.234 min
Delta R.T.: 0.000 min
Response: 2878627
Conc: 19.43 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

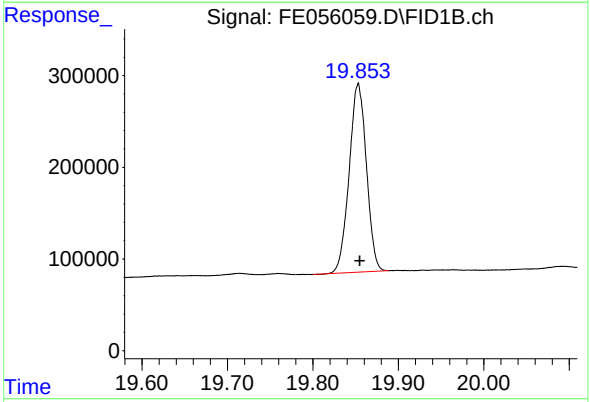
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



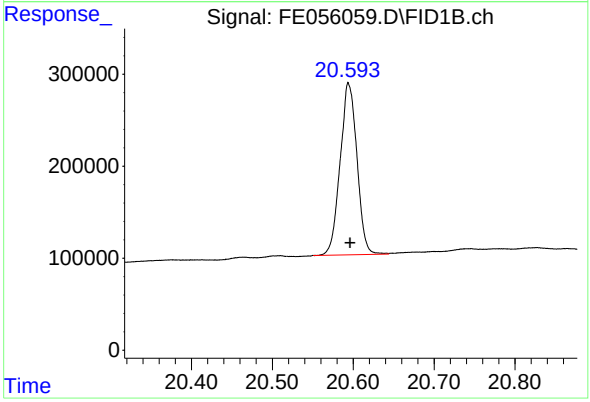
#18 n-Dotriacontane (C32)

R.T.: 19.068 min
Delta R.T.: -0.003 min
Response: 3057418
Conc: 20.49 ug/ml



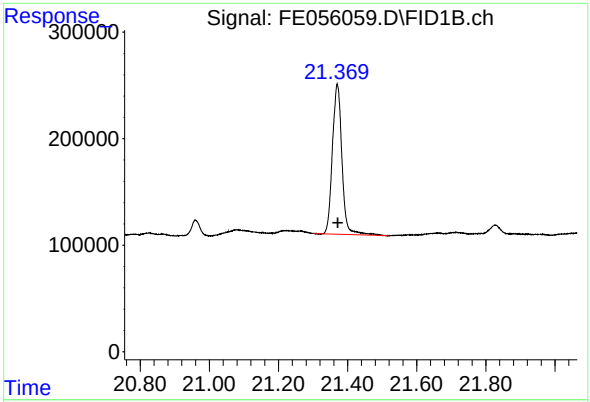
#19 n-Tetratriacontane (C34)

R.T.: 19.853 min
Delta R.T.: -0.002 min
Response: 2881015
Conc: 20.37 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.595 min
Delta R.T.: -0.001 min
Response: 2702037
Conc: 21.05 ug/ml



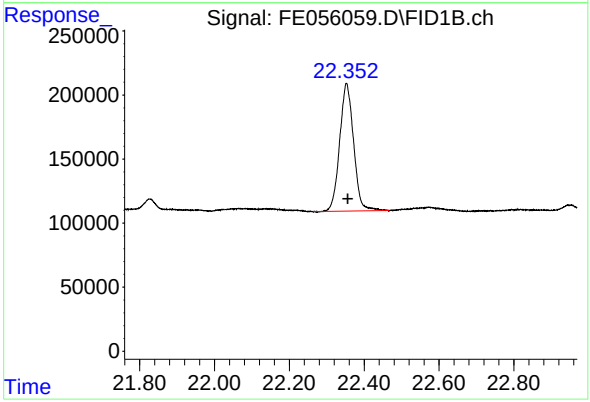
#21 n-Octatriacontane (C38)

R.T.: 21.370 min
Delta R.T.: -0.001 min
Response: 2698266
Conc: 20.54 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



#22 n-Tetracontane (C40)

R.T.: 22.353 min
Delta R.T.: -0.004 min
Response: 2574791
Conc: 21.64 ug/ml

Instrument :
FID_E
LabSampleId :
20 PPM ALIPHATIC HC STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE09292
Data File : FE056059.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 22:59
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 092425.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	3.415	3.360	3.472	BB	254651	2572800	68.01%	3.893%
2	4.673	4.620	4.724	BB	271462	2683708	70.94%	4.061%
3	6.391	6.337	6.485	BB	322979	3231311	85.41%	4.890%
4	6.846	6.794	6.900	BB	295881	2886591	76.30%	4.368%
5	7.492	7.430	7.584	BB	316363	3198207	84.54%	4.840%
6	8.683	8.629	8.747	BB	294465	3075507	81.29%	4.654%
7	10.297	10.235	10.362	BB	320102	3344081	88.39%	5.061%
8	11.746	11.704	11.804	BB	314510	3534237	93.42%	5.348%
9	12.072	12.005	12.137	BB	357586	3783189	100.00%	5.725%
10	13.060	13.000	13.117	BB	295208	3383796	89.44%	5.121%
11	13.509	13.375	13.572	BB	239601	2861588	75.64%	4.331%
12	13.675	13.615	13.737	BB	274318	3257550	86.11%	4.930%
13	14.263	14.177	14.322	BB	266763	3155438	83.41%	4.775%
14	15.369	15.237	15.425	BB	229578	2939083	77.69%	4.448%
15	16.392	16.329	16.452	BB	212334	2709056	71.61%	4.100%
16	17.345	17.250	17.394	BB	202207	2671287	70.61%	4.043%
17	18.234	18.167	18.287	BB	218308	2878627	76.09%	4.356%
18	19.068	19.000	19.119	BB	217775	3057418	80.82%	4.627%
19	19.853	19.800	19.889	BB	206530	2881015	76.15%	4.360%
20	20.595	20.550	20.644	BV	184071	2702037	71.42%	4.089%
21	21.370	21.300	21.519	BB	140401	2698266	71.32%	4.083%
22	22.353	22.264	22.465	BV	99832	2574791	68.06%	3.897%
			Sum of corrected areas:			66079582		

Aliphatic EPH 092425.M Tue Sep 30 05:47:28 2025

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

Continuing Calibration Report for SequenceID : FE092925AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE056077.D**						
Aliphatic C12-C16	6293193.000	40.000	6.947	10.396	157329.825	153376.491	-2.578
Aliphatic C16-C21	10298086.000	60.000	10.397	13.773	171634.767	165879.737	-3.469
Aliphatic C21-C28	11678563.000	80.000	13.774	17.443	145982.038	148527.151	1.714
Aliphatic C28-C40	15804133.000	120.000	17.444	22.449	131701.108	136251.923	3.340
Aliphatic EPH	51783287.000	360.000	3.315	22.449	143842.464	146449.789	1.780
Aliphatic C9-C12	7709312.000	60.000	3.315	6.946	128488.533	140027.957	8.241

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:	30 Sep 2025 08:07
Client Sample ID:		Operator:	YP\AJ
Data file:	FE056077.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.315	6.946	7709312.000	60.000	ug/ml
Aliphatic C12-C16	6.947	10.396	6293193.000	40.000	ug/ml
Aliphatic C16-C21	10.397	13.773	10298086.000	60.000	ug/ml
Aliphatic C21-C28	13.774	17.443	11678563.000	80.000	ug/ml
Aliphatic C28-C40	17.444	22.449	15804133.000	120.000	ug/ml
Aliphatic EPH	3.315	22.449	51783287.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056077.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 08:07
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e
Quant Time: Sep 30 08:34:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	12.074	3848174	20.507 ug/ml
Spiked Amount	50.000		Recovery =	41.01%
12)	S 1-chlorooctadecane (S...	13.510	2912233	20.866 ug/ml
Spiked Amount	50.000		Recovery =	41.73%
	Target Compounds			
1)	T n-Nonane (C9)	3.413	2418072	17.651 ug/ml
2)	T n-Decane (C10)	4.672	2534514	18.160 ug/ml
3)	T A~Naphthalene (C11.7)	6.392	3138662	19.658 ug/ml
4)	T n-Dodecane (C12)	6.847	2756726	19.207 ug/ml
5)	T A~2-methylnaphthalene...	7.492	3149498	20.252 ug/ml
6)	T n-Tetradecane (C14)	8.683	2978660	20.147 ug/ml
7)	T n-Hexadecane (C16)	10.298	3314533	20.858 ug/ml
8)	T n-Octadecane (C18)	11.747	3540920	20.905 ug/ml
10)	T n-Eicosane (C20)	13.061	3437776	20.739 ug/ml
11)	T n-Heneicosane (C21)	13.676	3319390	20.428 ug/ml
13)	T n-Docosane (C22)	14.264	3223246	20.172 ug/ml
14)	T n-Tetracosane (C24)	15.370	3007040	19.734 ug/ml
15)	T n-Hexacosane (C26)	16.393	2768449	19.410 ug/ml
16)	T n-Octacosane (C28)	17.346	2679828	19.237 ug/ml
17)	T n-Tricontane (C30)	18.236	2803316	18.918 ug/ml
18)	T n-Dotriacontane (C32)	19.070	2884097	19.331 ug/ml
19)	T n-Tetratriacontane (C34)	19.856	2787056	19.703 ug/ml
20)	T n-Hexatriacontane (C36)	20.596	2561839	19.957 ug/mlm
21)	T n-Octatriacontane (C38)	21.371	2423852	18.454 ug/mlm
22)	T n-Tetracontane (C40)	22.355	2343973	19.703 ug/ml

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

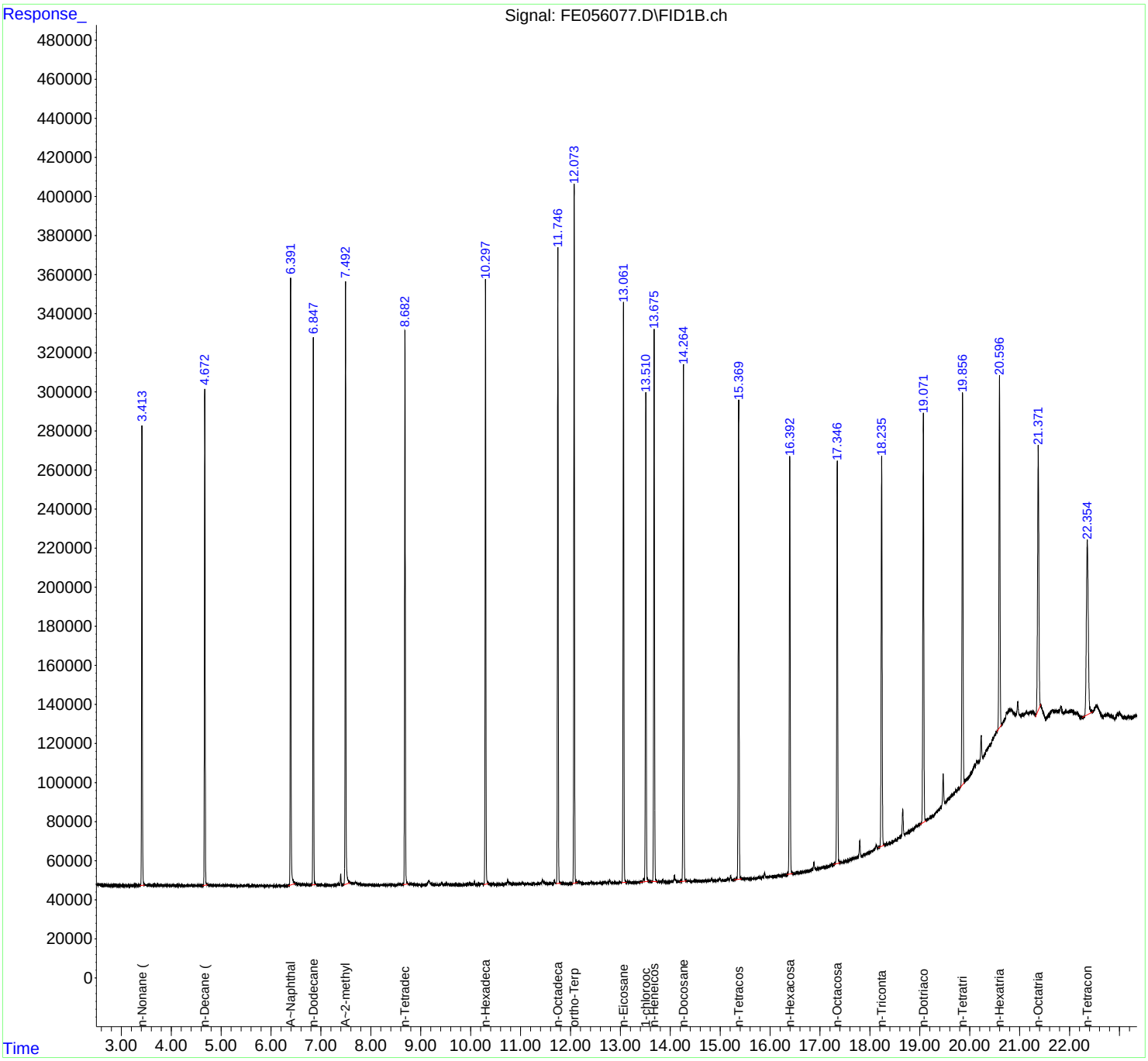
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056077.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 08:07
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

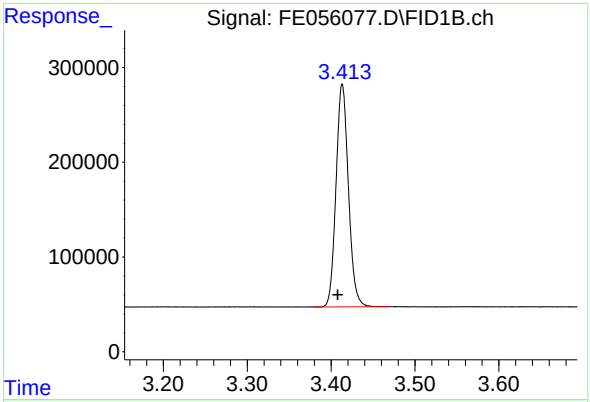
Integration File: autoint1.e
Quant Time: Sep 30 08:34:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025





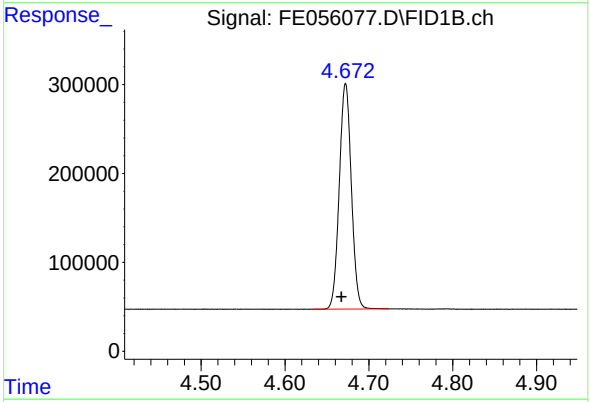
#1 n-Nonane (C9)

R.T.: 3.413 min
Delta R.T.: 0.005 min
Response: 2418072
Conc: 17.65 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

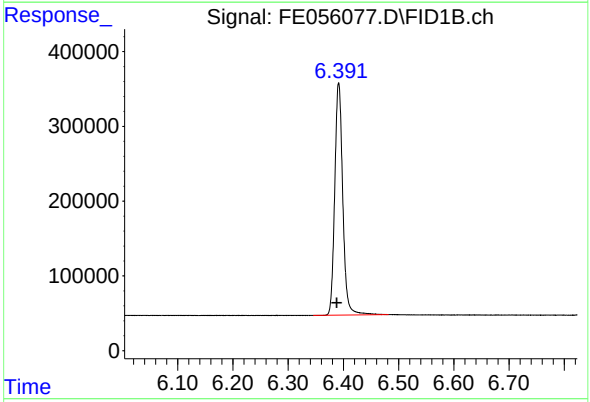
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



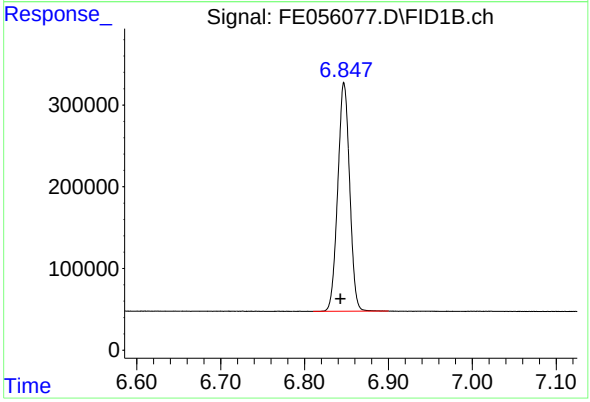
#2 n-Decane (C10)

R.T.: 4.672 min
Delta R.T.: 0.005 min
Response: 2534514
Conc: 18.16 ug/ml



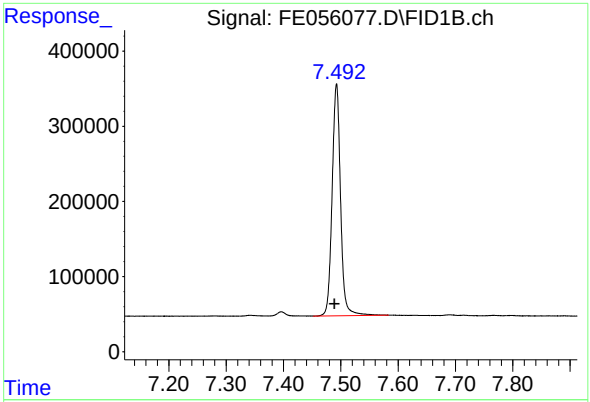
#3 A~Naphthalene (C11.7)

R.T.: 6.392 min
Delta R.T.: 0.003 min
Response: 3138662
Conc: 19.66 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.847 min
Delta R.T.: 0.004 min
Response: 2756726
Conc: 19.21 ug/ml



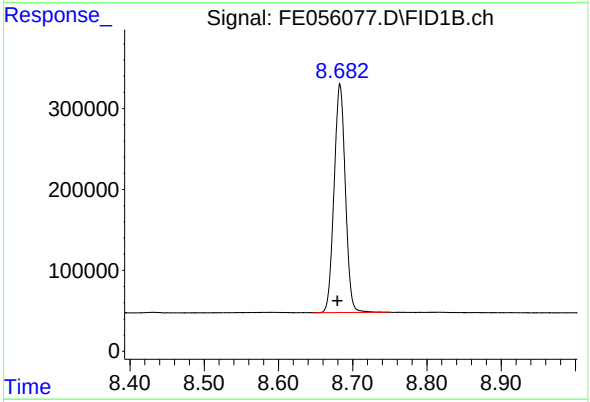
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.492 min
Delta R.T.: 0.004 min
Response: 3149498
Conc: 20.25 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

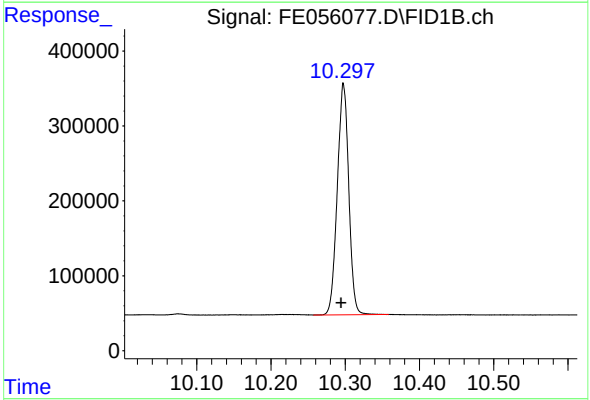
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



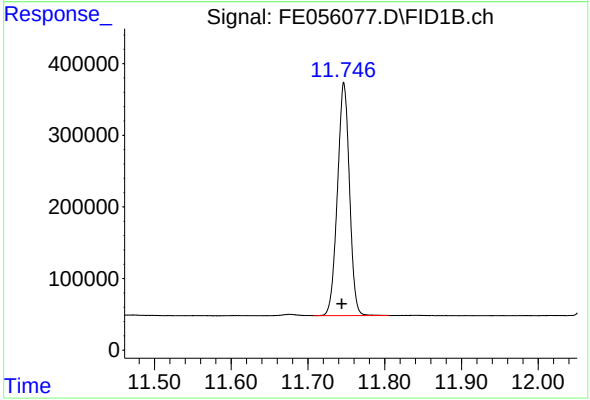
#6 n-Tetradecane (C14)

R.T.: 8.683 min
Delta R.T.: 0.004 min
Response: 2978660
Conc: 20.15 ug/ml



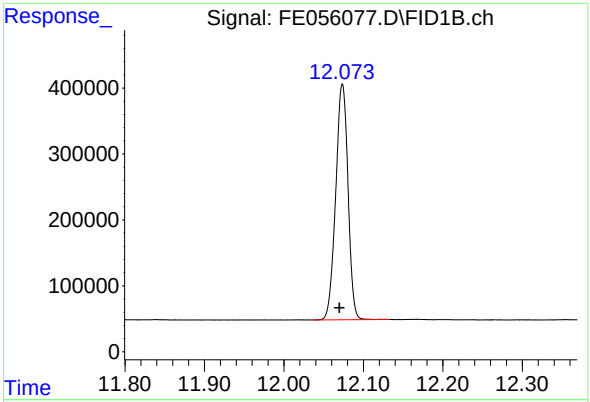
#7 n-Hexadecane (C16)

R.T.: 10.298 min
Delta R.T.: 0.003 min
Response: 3314533
Conc: 20.86 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.747 min
Delta R.T.: 0.003 min
Response: 3540920
Conc: 20.90 ug/ml



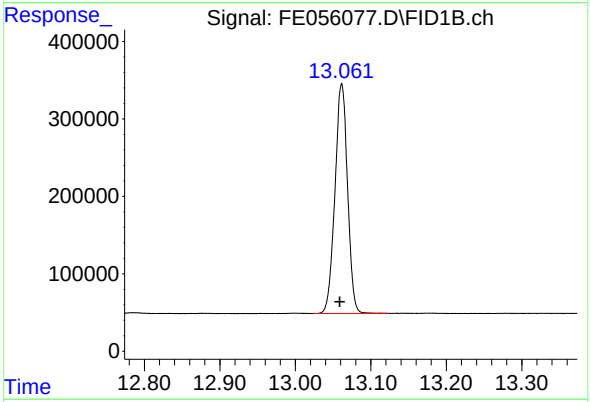
#9 ortho-Terphenyl (SURR)

R.T.: 12.074 min
Delta R.T.: 0.004 min
Response: 3848174
Conc: 20.51 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

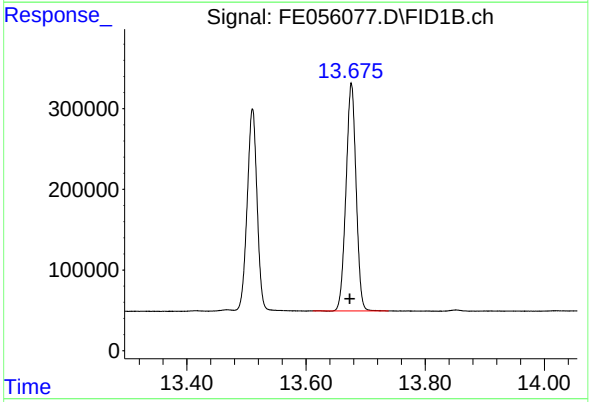
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



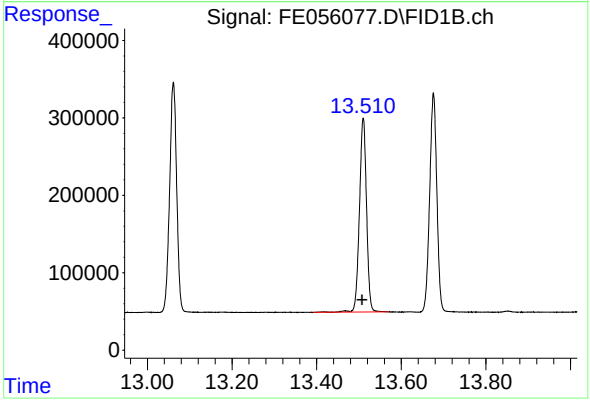
#10 n-Eicosane (C20)

R.T.: 13.061 min
Delta R.T.: 0.003 min
Response: 3437776
Conc: 20.74 ug/ml



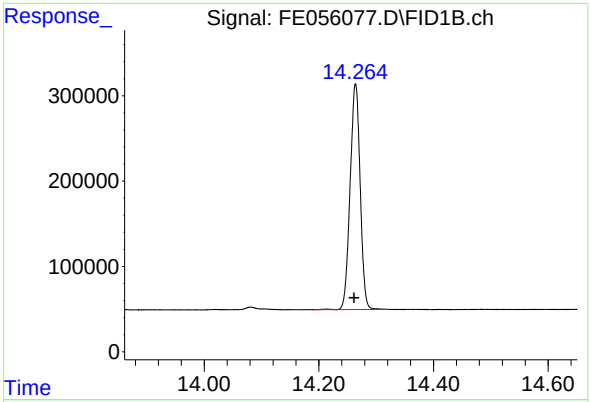
#11 n-Heneicosane (C21)

R.T.: 13.676 min
Delta R.T.: 0.003 min
Response: 3319390
Conc: 20.43 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.510 min
Delta R.T.: 0.003 min
Response: 2912233
Conc: 20.87 ug/ml



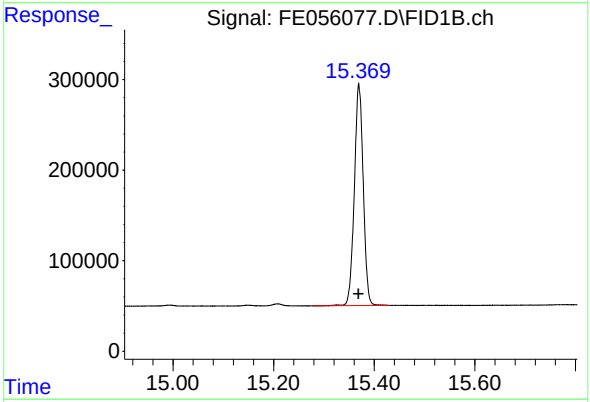
#13 n-Docosane (C22)

R.T.: 14.264 min
Delta R.T.: 0.002 min
Response: 3223246
Conc: 20.17 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

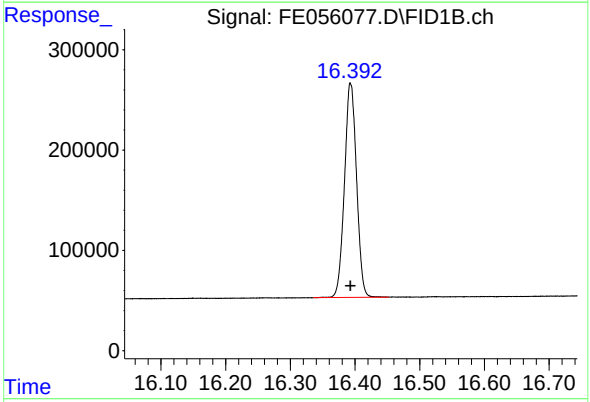
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



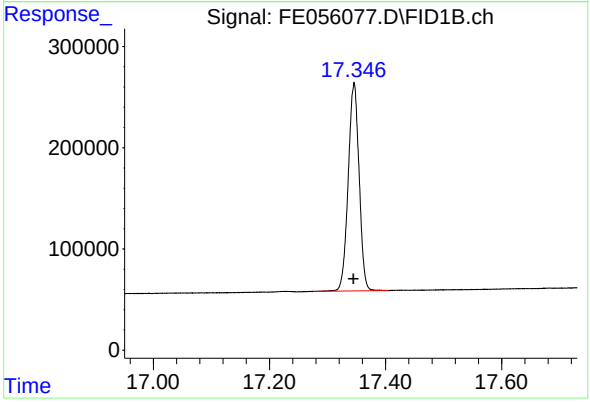
#14 n-Tetracosane (C24)

R.T.: 15.370 min
Delta R.T.: 0.001 min
Response: 3007040
Conc: 19.73 ug/ml



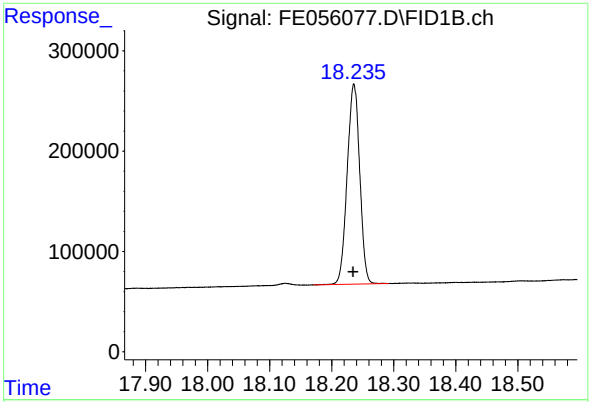
#15 n-Hexacosane (C26)

R.T.: 16.393 min
Delta R.T.: 0.000 min
Response: 2768449
Conc: 19.41 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.346 min
Delta R.T.: 0.000 min
Response: 2679828
Conc: 19.24 ug/ml



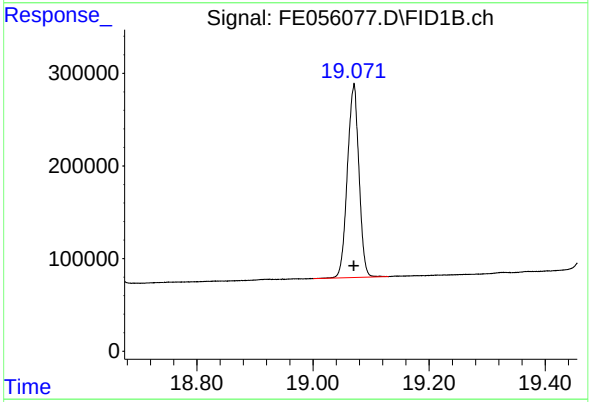
#17 n-Tricontane (C30)

R.T.: 18.236 min
Delta R.T.: 0.001 min
Response: 2803316
Conc: 18.92 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

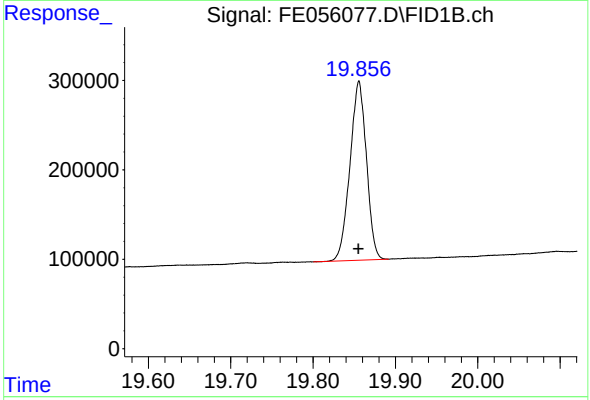
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



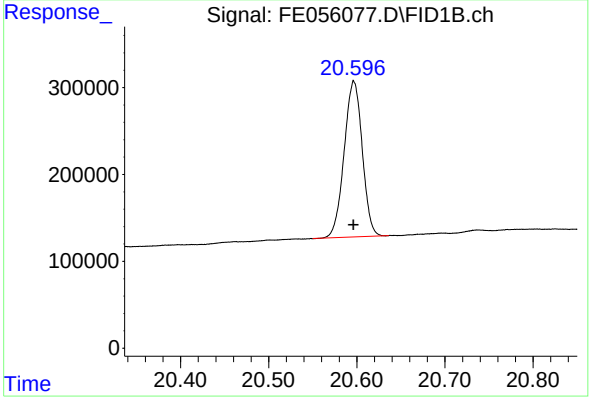
#18 n-Dotriacontane (C32)

R.T.: 19.070 min
Delta R.T.: 0.000 min
Response: 2884097
Conc: 19.33 ug/ml



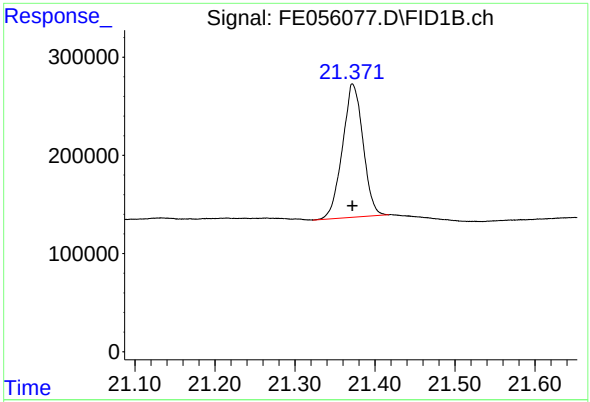
#19 n-Tetratriacontane (C34)

R.T.: 19.856 min
Delta R.T.: 0.000 min
Response: 2787056
Conc: 19.70 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.596 min
Delta R.T.: 0.000 min
Response: 2561839
Conc: 19.96 ug/ml m



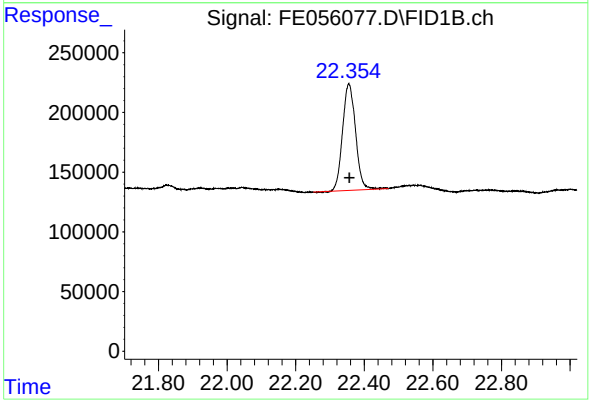
#21 n-Octatriacontane (C38)

R.T.: 21.371 min
Delta R.T.: 0.000 min
Response: 2423852
Conc: 18.45 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



#22 n-Tetracontane (C40)

R.T.: 22.355 min
Delta R.T.: -0.002 min
Response: 2343973
Conc: 19.70 ug/ml

Instrument :
FID_E
LabSampleId :
20 PPM ALIPHATIC HC STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE09292
Data File : FE056077.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 08:07
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 092425.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	3.413	3.379	3.469	BB	235016	2418072	62.84%	3.709%
2	4.672	4.634	4.724	BB	254047	2534514	65.86%	3.888%
3	6.392	6.345	6.482	BB	310630	3138662	81.56%	4.815%
4	6.847	6.810	6.900	BB	279755	2756726	71.64%	4.229%
5	7.493	7.452	7.584	BB	308278	3149498	81.84%	4.831%
6	8.683	8.647	8.748	BB	282057	2978660	77.40%	4.569%
7	10.298	10.257	10.359	BB	309451	3314533	86.13%	5.085%
8	11.747	11.707	11.805	BB	325081	3540920	92.02%	5.432%
9	12.074	12.037	12.132	BB	357581	3848174	100.00%	5.903%
10	13.061	13.024	13.124	BB	297094	3437776	89.34%	5.274%
11	13.510	13.392	13.570	BB	250692	2912233	75.68%	4.467%
12	13.676	13.612	13.739	BB	281517	3319390	86.26%	5.092%
13	14.264	14.190	14.322	BB	264955	3223246	83.76%	4.944%
14	15.370	15.279	15.429	BB	242411	3007040	78.14%	4.613%
15	16.393	16.335	16.452	BB	212459	2768449	71.94%	4.247%
16	17.346	17.275	17.405	BB	204643	2679828	69.64%	4.111%
17	18.236	18.170	18.292	BB	199509	2803316	72.85%	4.300%
18	19.070	19.000	19.130	BB	207593	2884097	74.95%	4.424%
19	19.856	19.800	19.892	BV	200202	2787056	72.43%	4.275%
20	20.597	20.550	20.634	BV	180720	2621510	68.12%	4.021%
21	21.373	21.301	21.534	BV	136377	2721240	70.72%	4.174%
22	22.355	22.251	22.471	BV	89358	2343973	60.91%	3.596%
			Sum of corrected areas:			65188912		

Aliphatic EPH 092425.M Tue Sep 30 08:45:22 2025

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

Continuing Calibration Report for SequenceID : FF092925AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF016469.D**						
Aromatic C10-C12	5084345.000	40.000	4.521	6.397	127108.625	143322.298	11.313
Aromatic C12-C16	7733315.000	60.000	6.398	9.101	128888.583	145185.730	11.225
Aromatic C16-C21	9911263.000	80.000	9.102	13.420	123890.788	144173.003	14.068
Aromatic C21-C36	20345622.000	180.000	13.421	18.876	113031.233	130834.072	13.607
Aromatic EPH	43074545.000	360.000	4.521	18.876	119651.514	137577.803	13.030

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:	29 Sep 2025 14:07
Client Sample ID:		Operator:	YP\AJ
Data file:	FF016469.D	Misc:	
Instrument:	FID_F	ALS Vial:	71
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.521	6.397	5084345.000	40.000	ug/ml
Aromatic C12-C16	6.398	9.101	7733315.000	60.000	ug/ml
Aromatic C16-C21	9.102	13.420	9911263.000	80.000	ug/ml
Aromatic C21-C36	13.421	18.876	20345622.000	180.000	ug/ml
Aromatic EPH	4.521	18.876	43074545.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016469.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 14:07
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 30 01:03:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
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...	8.026	2211560	17.655 ug/ml
Spiked Amount	50.000		Recovery =	35.31%
6) S	2-Flurobiphenyl (SURR)	8.902	1496381	17.742 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	35.48%
11) S	ortho-Terphenyl (SURR)	11.969	2632726	17.270 ug/ml
Spiked Amount	50.000		Recovery =	34.54%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.621	2507927	17.791 ug/ml
2) T	Naphthalene (C11.7)	6.297	2576418	17.685 ug/ml
3) T	2-Methylnaphthalene (...	7.397	2618834	17.789 ug/ml
5) T	Acenaphthylene (C15.06)	8.702	2548044	17.583 ug/ml
7) T	Acenaphthene (C15.5)	9.001	2566437	17.895 ug/ml
8) T	Flouorene (C16.55)	9.791	2547498	17.634 ug/ml
9) T	Phenanthrene (C19.36)	11.199	2520761	17.282 ug/ml
10) T	Anthracene (C19.43)	11.273	2443172	17.077 ug/ml
12) T	Fluoranthene (C21.85)	13.022	2483340	17.003 ug/ml
13) T	Pyrene (C20.8)	13.320	2399832	16.747 ug/ml
14) T	Benzo[a]anthracene (C...	15.204	2245870	16.499 ug/ml
15) T	Chrysene (C27.41)	15.246	2376725	16.662 ug/ml
16) T	benzo[b]fluoranthene ...	16.765	2229841	16.970 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.796	2189119	17.392 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.145	2215712	17.352 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.519	2019062	17.705 ug/ml
20) T	Dibenz[a,h]anthracene...	18.560	2369349	18.149 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.776	2216604	18.001 ug/ml

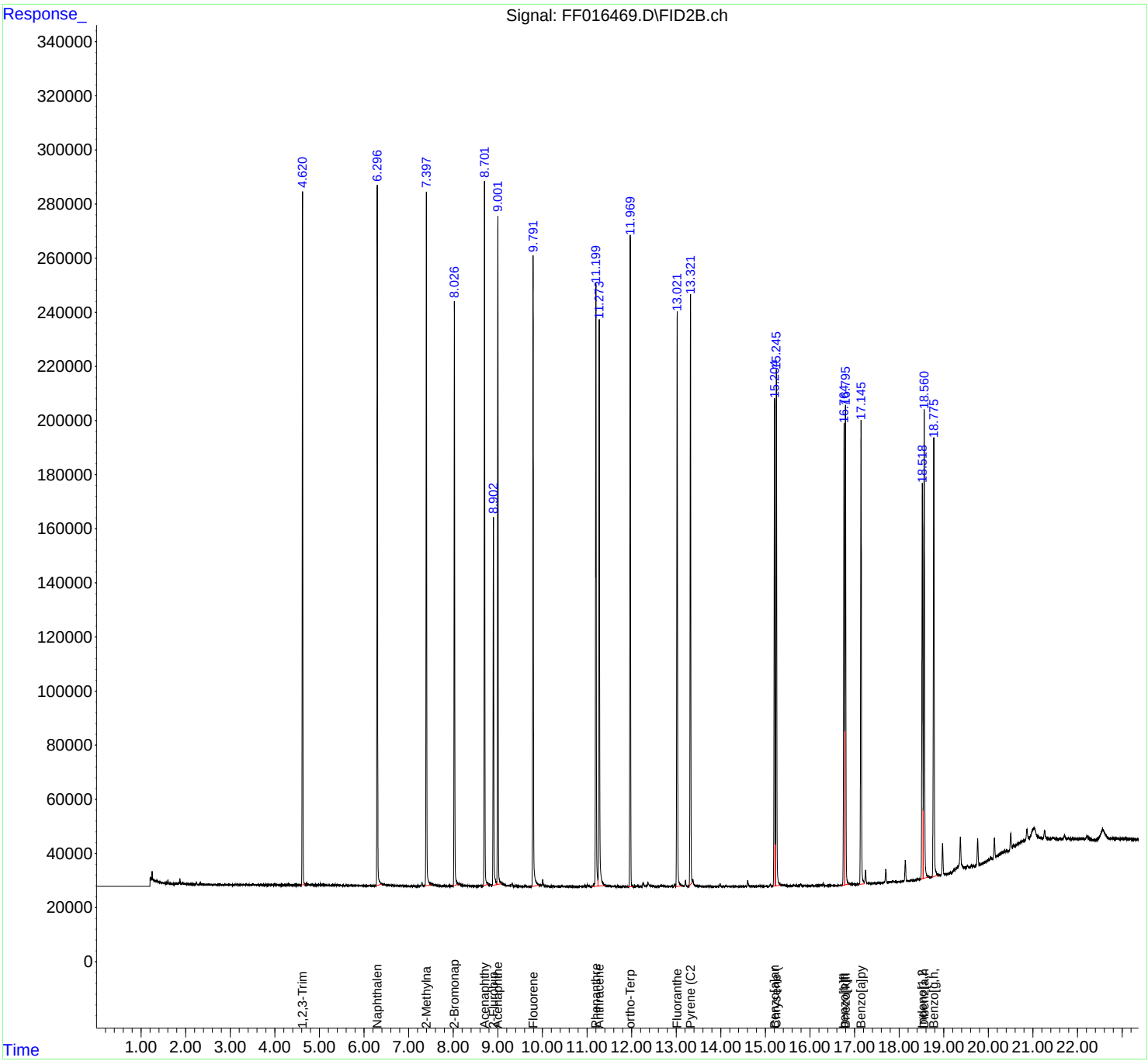
(f)=RT Delta > 1/2 Window (m)=manual int.

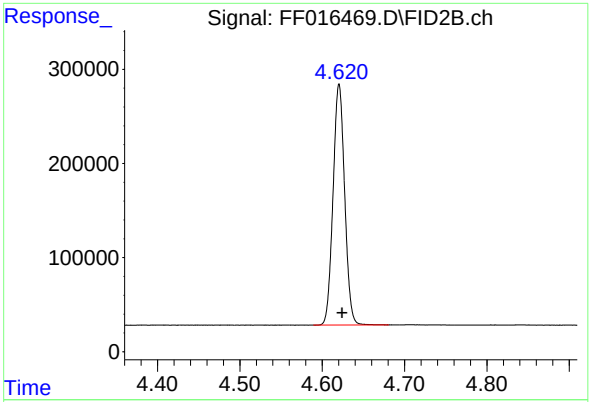
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016469.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 14:07
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 30 01:03:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

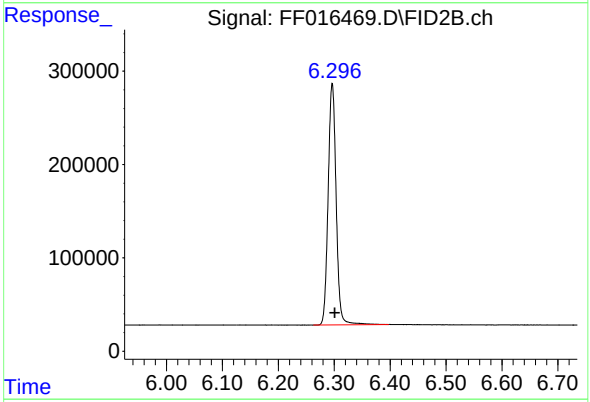




#1 1,2,3-Trimethylbenzene (C10.1)

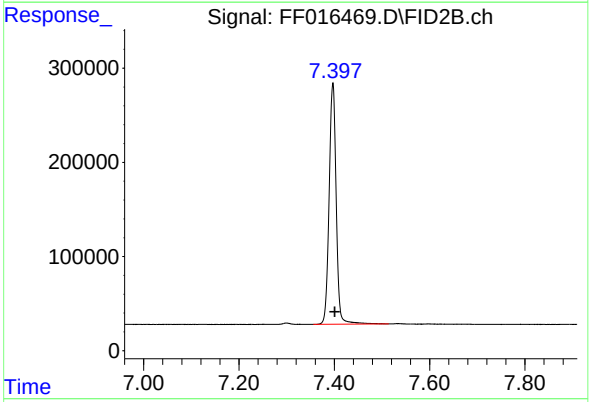
R.T.: 4.621 min
Delta R.T.: -0.003 min
Response: 2507927
Conc: 17.79 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



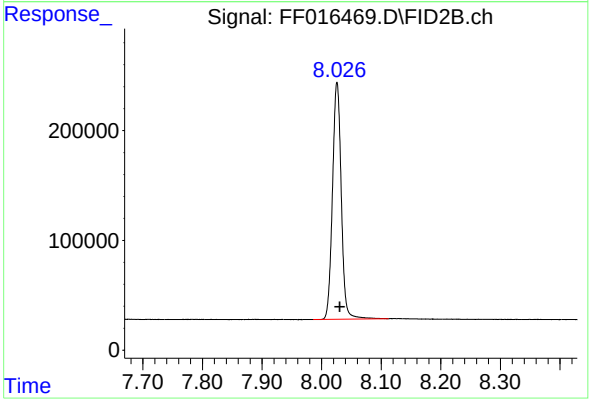
#2 Naphthalene (C11.7)

R.T.: 6.297 min
Delta R.T.: -0.005 min
Response: 2576418
Conc: 17.69 ug/ml



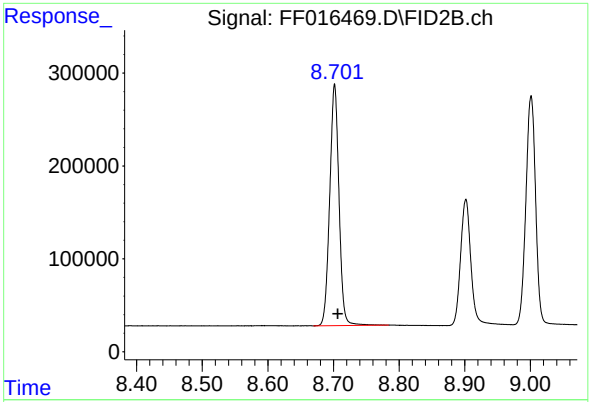
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.397 min
Delta R.T.: -0.004 min
Response: 2618834
Conc: 17.79 ug/ml



#4 2-Bromonaphthalene (SURR)

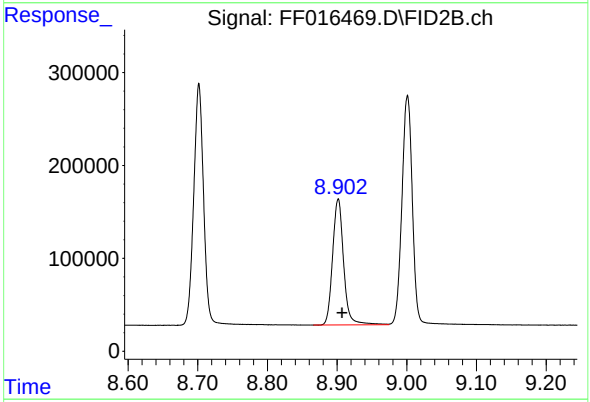
R.T.: 8.026 min
Delta R.T.: -0.005 min
Response: 2211560
Conc: 17.65 ug/ml



#5 Acenaphthylene (C15.06)

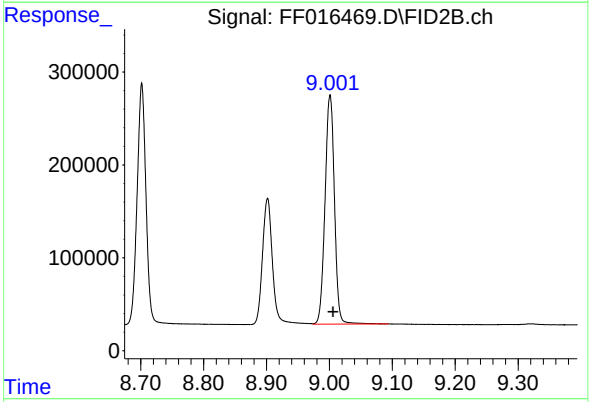
R.T.: 8.702 min
Delta R.T.: -0.005 min
Response: 2548044
Conc: 17.58 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



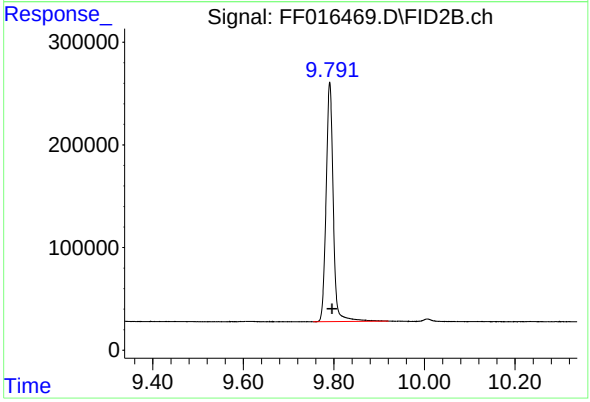
#6 2-Flurobiphenyl (SURR)

R.T.: 8.902 min
Delta R.T.: -0.006 min
Response: 1496381
Conc: 17.74 ug/ml



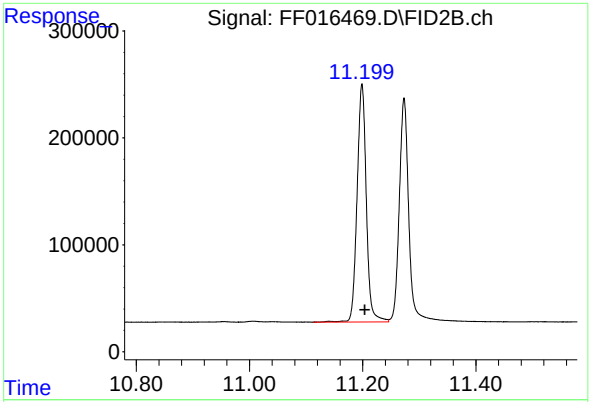
#7 Acenaphthene (C15.5)

R.T.: 9.001 min
Delta R.T.: -0.005 min
Response: 2566437
Conc: 17.89 ug/ml



#8 Flouorene (C16.55)

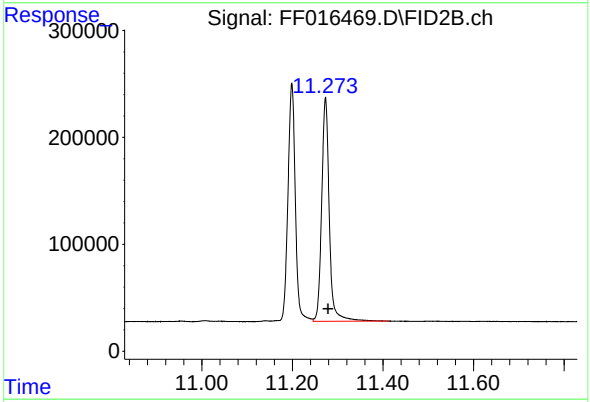
R.T.: 9.791 min
Delta R.T.: -0.005 min
Response: 2547498
Conc: 17.63 ug/ml



#9 Phenanthrene (C19.36)

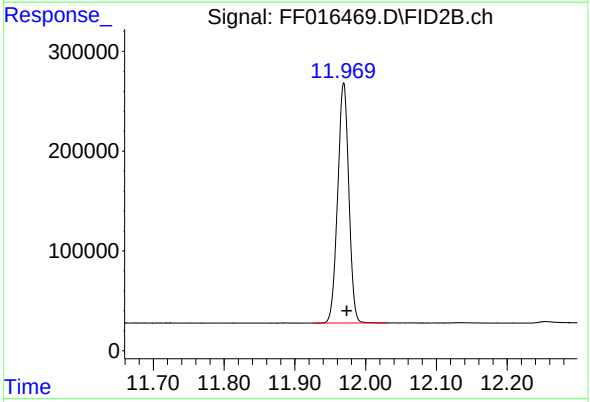
R.T.: 11.199 min
Delta R.T.: -0.005 min
Response: 2520761
Conc: 17.28 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



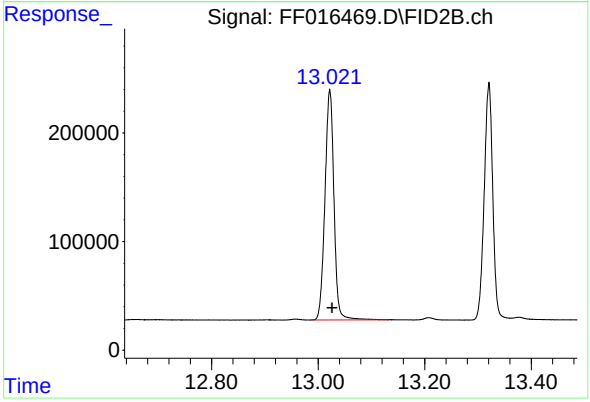
#10 Anthracene (C19.43)

R.T.: 11.273 min
Delta R.T.: -0.006 min
Response: 2443172
Conc: 17.08 ug/ml



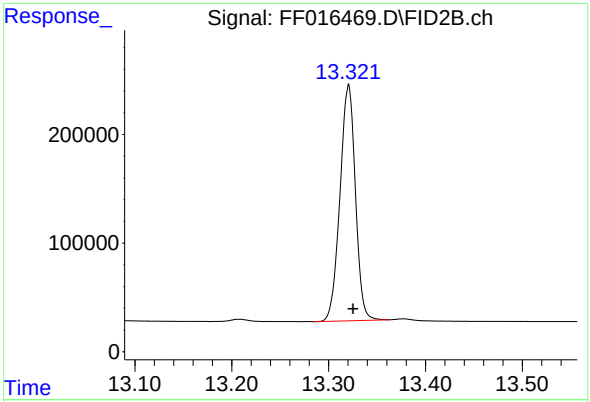
#11 ortho-Terphenyl (SURR)

R.T.: 11.969 min
Delta R.T.: -0.005 min
Response: 2632726
Conc: 17.27 ug/ml



#12 Fluoranthene (C21.85)

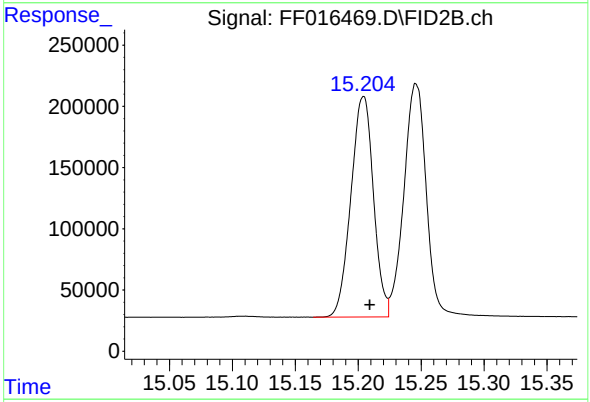
R.T.: 13.022 min
Delta R.T.: -0.005 min
Response: 2483340
Conc: 17.00 ug/ml



#13 Pyrene (C20.8)

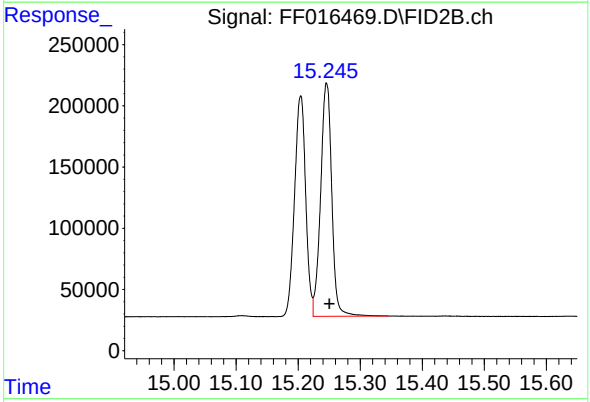
R.T.: 13.320 min
Delta R.T.: -0.005 min
Response: 2399832
Conc: 16.75 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



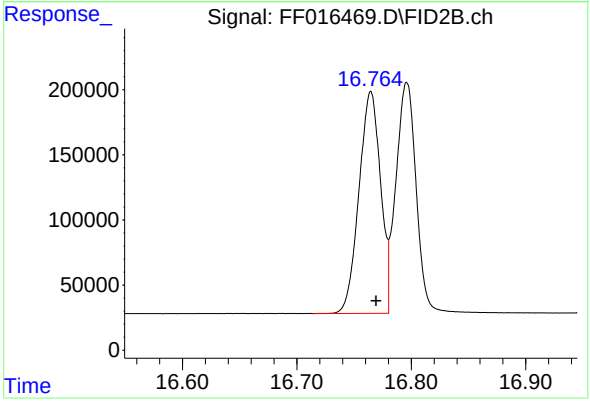
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.204 min
Delta R.T.: -0.005 min
Response: 2245870
Conc: 16.50 ug/ml



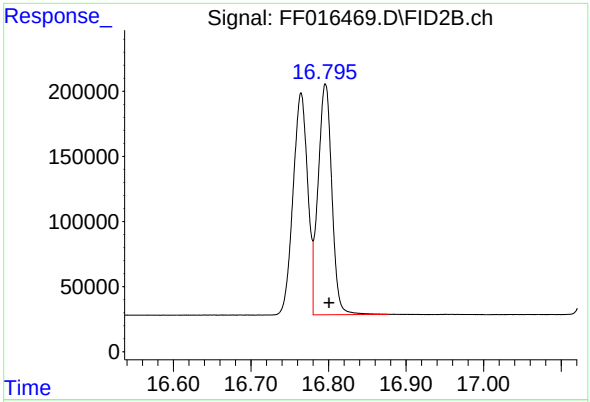
#15 Chrysene (C27.41)

R.T.: 15.246 min
Delta R.T.: -0.005 min
Response: 2376725
Conc: 16.66 ug/ml



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

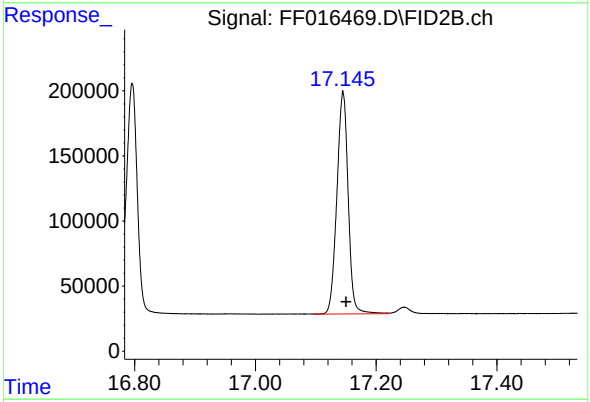
R.T.: 16.765 min
Delta R.T.: -0.005 min
Response: 2229841
Conc: 16.97 ug/ml



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

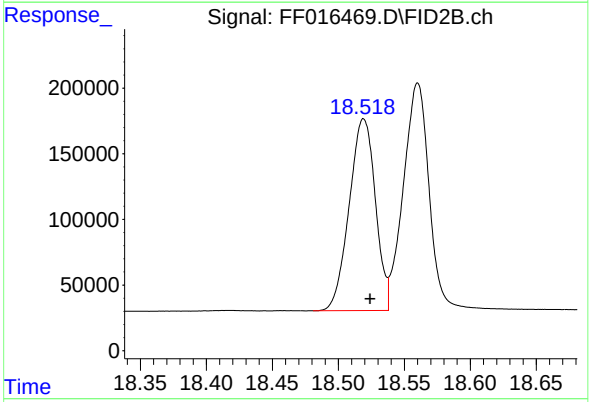
R.T.: 16.796 min
Delta R.T.: -0.005 min
Response: 2189119
Conc: 17.39 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



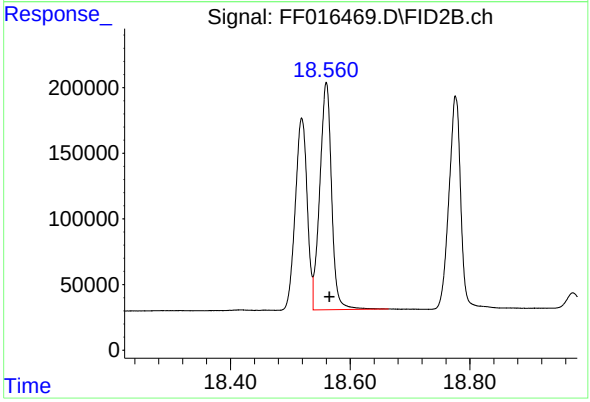
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.145 min
Delta R.T.: -0.005 min
Response: 2215712
Conc: 17.35 ug/ml



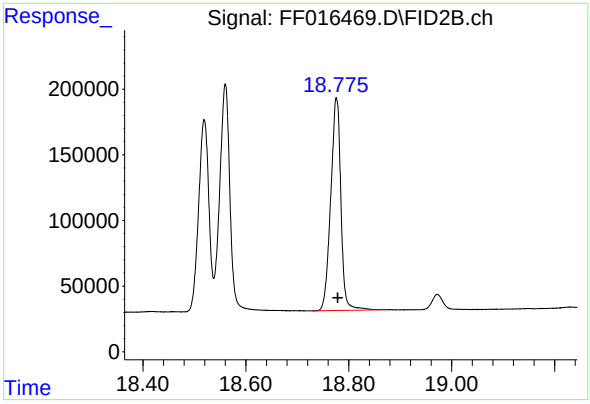
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.519 min
Delta R.T.: -0.005 min
Response: 2019062
Conc: 17.71 ug/ml



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

R.T.: 18.560 min
Delta R.T.: -0.005 min
Response: 2369349
Conc: 18.15 ug/ml



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

R.T.: 18.776 min
Delta R.T.: -0.002 min
Response: 2216604
Conc: 18.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016469.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 14:07
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.621	4.589	4.681	BB	256175	2507927	95.26%	5.075%
2	6.297	6.262	6.397	BB	258563	2576418	97.86%	5.214%
3	7.397	7.356	7.514	BB	257344	2618834	99.47%	5.300%
4	8.026	7.986	8.112	BB	215892	2211560	84.00%	4.475%
5	8.702	8.669	8.784	BB	260059	2548044	96.78%	5.156%
6	8.902	8.866	8.974	BV	136564	1496381	56.84%	3.028%
7	9.001	8.974	9.094	VB	246336	2566437	97.48%	5.194%
8	9.791	9.754	9.921	BB	232960	2547498	96.76%	5.155%
9	11.199	11.112	11.246	BV	222820	2520761	95.75%	5.101%
10	11.273	11.246	11.412	VB	209245	2443172	92.80%	4.944%
11	11.969	11.926	12.032	BB	241053	2632726	100.00%	5.328%
12	13.022	12.991	13.132	BB	211910	2483340	94.33%	5.025%
13	13.320	13.284	13.362	BV	218094	2399832	91.15%	4.856%
14	15.204	15.164	15.224	BV	180288	2245870	85.31%	4.545%
15	15.246	15.224	15.346	VB	190770	2376725	90.28%	4.810%
16	16.765	16.714	16.780	BV	170583	2229841	84.70%	4.512%
17	16.796	16.780	16.877	VB	177534	2189119	83.15%	4.430%
18	17.145	17.096	17.221	BV	170516	2215712	84.16%	4.484%
19	18.519	18.481	18.538	BV	146145	2019062	76.69%	4.086%
20	18.560	18.538	18.664	VB	173324	2369349	90.00%	4.795%
21	18.776	18.731	18.877	BB	162187	2216604	84.19%	4.486%

Sum of corrected areas: 49415209

Aromatic EPH 092425.M Tue Sep 30 01:26:26 2025

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

Continuing Calibration Report for SequenceID : FF092925AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF016480.D**						
Aromatic C10-C12	5842008.000	40.000	4.521	6.397	146050.200	143322.298	-1.903
Aromatic C12-C16	8833480.000	60.000	6.398	9.101	147224.667	145185.730	-1.404
Aromatic C16-C21	10927914.000	80.000	9.102	13.420	136598.925	144173.003	5.253
Aromatic C21-C36	22884163.000	180.000	13.421	18.876	127134.239	130834.072	2.828
Aromatic EPH	48487565.000	360.000	4.521	18.876	134687.681	137577.803	2.101

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:	29 Sep 2025 22:02
Client Sample ID:		Operator:	YP\AJ
Data file:	FF016480.D	Misc:	
Instrument:	FID_F	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.521	6.397	5842008.000	40.000	ug/ml
Aromatic C12-C16	6.398	9.101	8833480.000	60.000	ug/ml
Aromatic C16-C21	9.102	13.420	10927914.000	80.000	ug/ml
Aromatic C21-C36	13.421	18.876	22884163.000	180.000	ug/ml
Aromatic EPH	4.521	18.876	48487565.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016480.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 22:02
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 30 01:23:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
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...	8.025	2540204	20.278 ug/ml
Spiked Amount	50.000		Recovery =	40.56%
6) S	2-Flurobiphenyl (SURR)	8.900	1719562	20.389 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.78%
11) S	ortho-Terphenyl (SURR)	11.968	2999184	19.673 ug/ml
Spiked Amount	50.000		Recovery =	39.35%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.619	2881911	20.444 ug/ml
2) T	Naphthalene (C11.7)	6.295	2960097	20.319 ug/ml
3) T	2-Methylnaphthalene (...	7.395	2999928	20.377 ug/ml
5) T	Acenaphthylene (C15.06)	8.701	2895979	19.984 ug/ml
7) T	Acenaphthene (C15.5)	9.000	2937573	20.482 ug/ml
8) T	Flouorene (C16.55)	9.790	2921064	20.220 ug/ml
9) T	Phenanthrene (C19.36)	11.197	2867348	19.659 ug/ml
10) T	Anthracene (C19.43)	11.272	2418954	16.908 ug/ml
12) T	Fluoranthene (C21.85)	13.020	2819110	19.302 ug/ml
13) T	Pyrene (C20.8)	13.319	2720548	18.985 ug/ml
14) T	Benzo[a]anthracene (C...	15.202	2518448	18.501 ug/ml
15) T	Chrysene (C27.41)	15.244	2682933	18.808 ug/ml
16) T	benzo[b]fluoranthene ...	16.763	2512742	19.123 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.795	2474262	19.657 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.144	2486548	19.473 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.518	2278345	19.979 ug/ml
20) T	Dibenz[a,h]anthracene...	18.558	2618796	20.059 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.774	2492979	20.245 ug/ml

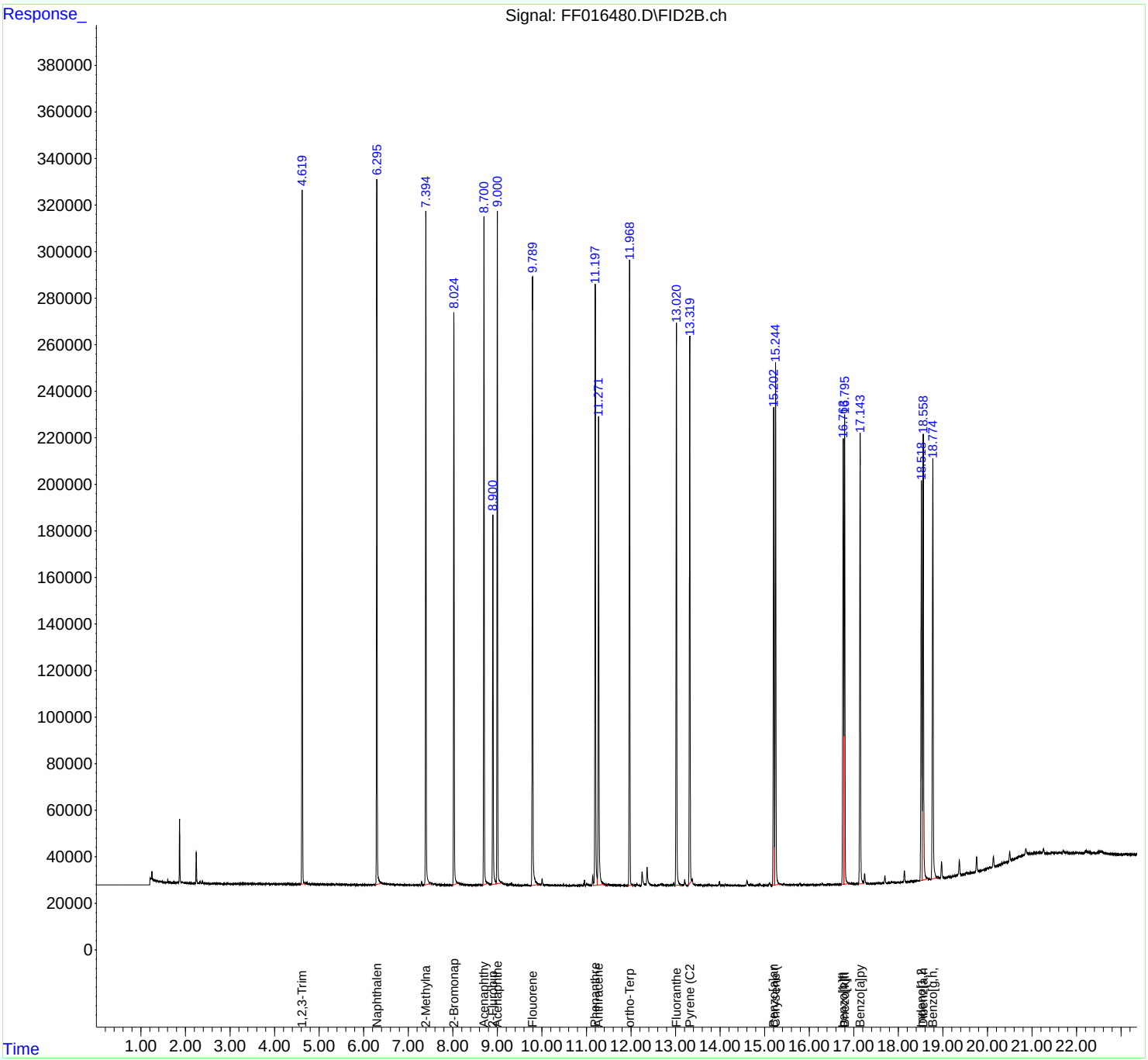
(f)=RT Delta > 1/2 Window (m)=manual int.

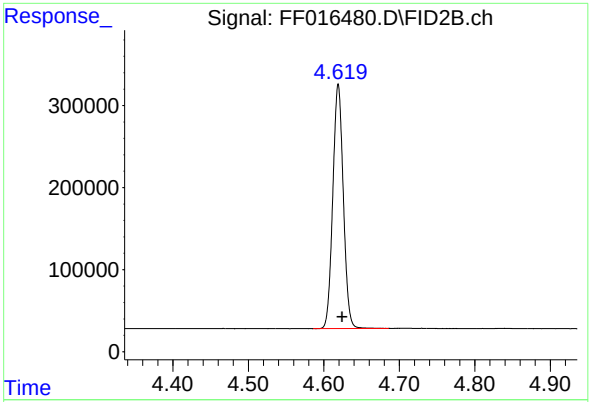
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016480.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 22:02
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 30 01:23:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

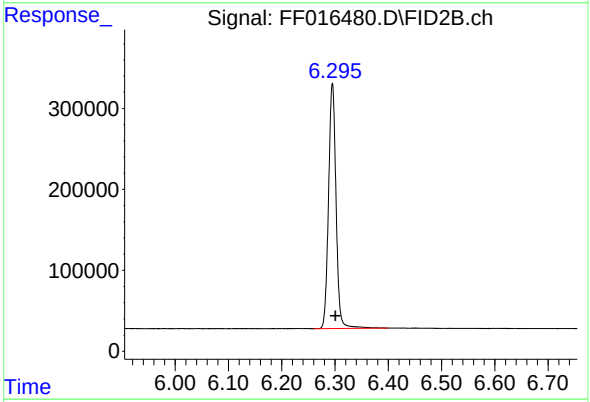




#1 1,2,3-Trimethylbenzene (C10.1)

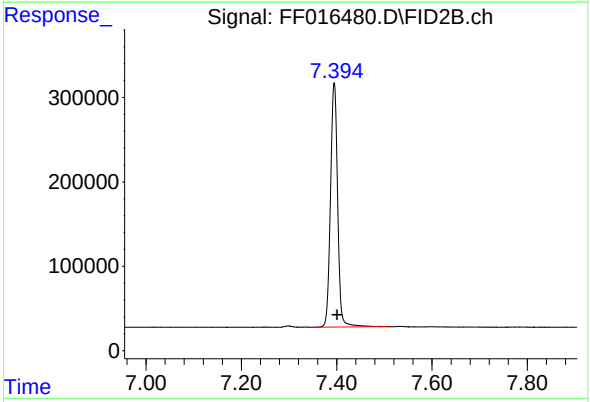
R.T.: 4.619 min
Delta R.T.: -0.005 min
Response: 2881911
Conc: 20.44 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



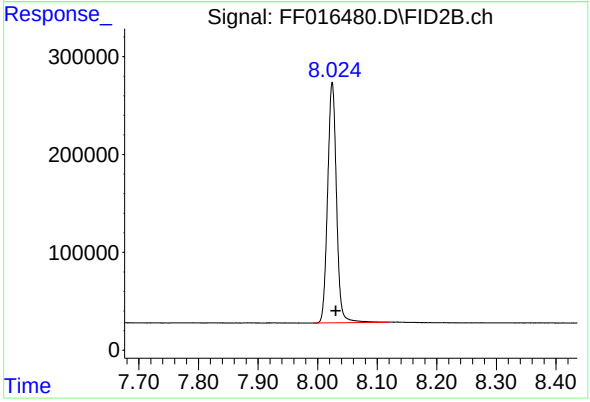
#2 Naphthalene (C11.7)

R.T.: 6.295 min
Delta R.T.: -0.006 min
Response: 2960097
Conc: 20.32 ug/ml



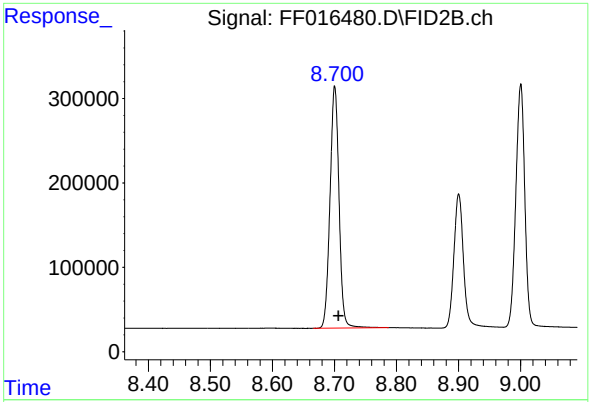
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.395 min
Delta R.T.: -0.006 min
Response: 2999928
Conc: 20.38 ug/ml



#4 2-Bromonaphthalene (SURR)

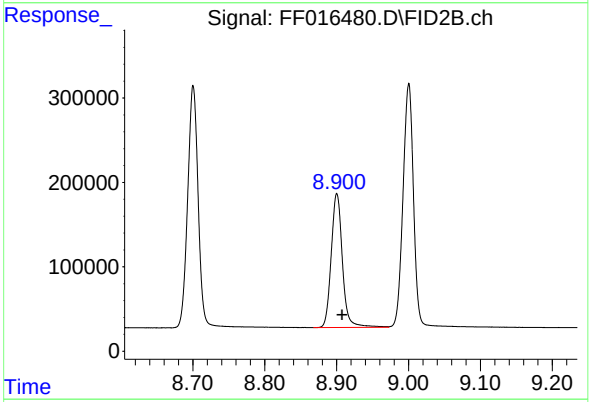
R.T.: 8.025 min
Delta R.T.: -0.006 min
Response: 2540204
Conc: 20.28 ug/ml



#5 Acenaphthylene (C15.06)

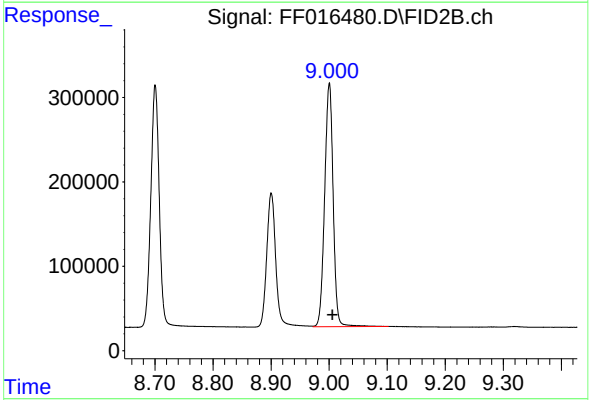
R.T.: 8.701 min
Delta R.T.: -0.006 min
Response: 2895979
Conc: 19.98 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



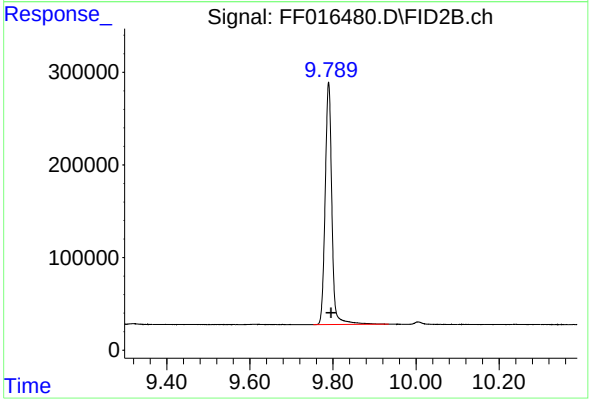
#6 2-Flurobiphenyl (SURR)

R.T.: 8.900 min
Delta R.T.: -0.007 min
Response: 1719562
Conc: 20.39 ug/ml



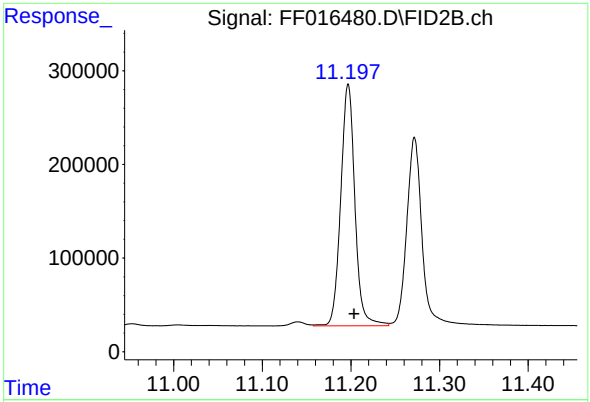
#7 Acenaphthene (C15.5)

R.T.: 9.000 min
Delta R.T.: -0.006 min
Response: 2937573
Conc: 20.48 ug/ml



#8 Flouorene (C16.55)

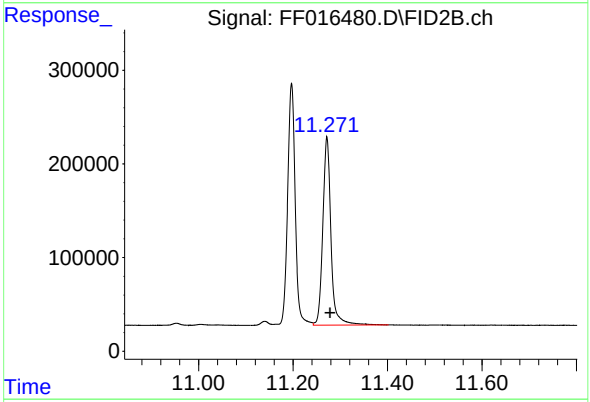
R.T.: 9.790 min
Delta R.T.: -0.006 min
Response: 2921064
Conc: 20.22 ug/ml



#9 Phenanthrene (C19.36)

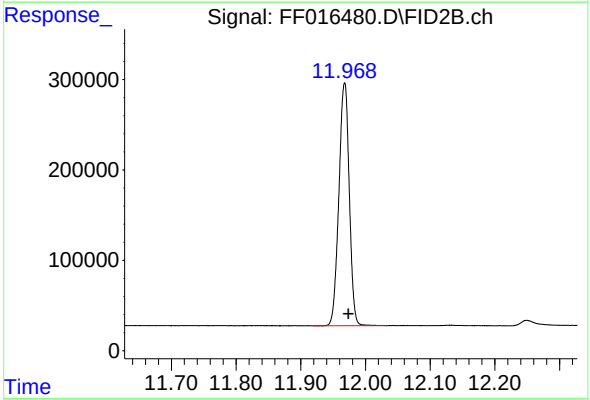
R.T.: 11.197 min
Delta R.T.: -0.007 min
Response: 2867348
Conc: 19.66 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



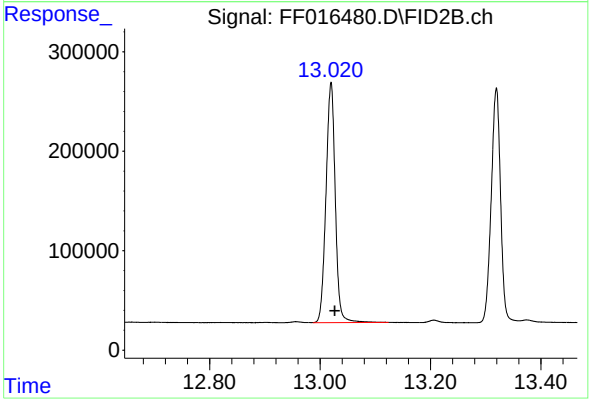
#10 Anthracene (C19.43)

R.T.: 11.272 min
Delta R.T.: -0.007 min
Response: 2418954
Conc: 16.91 ug/ml



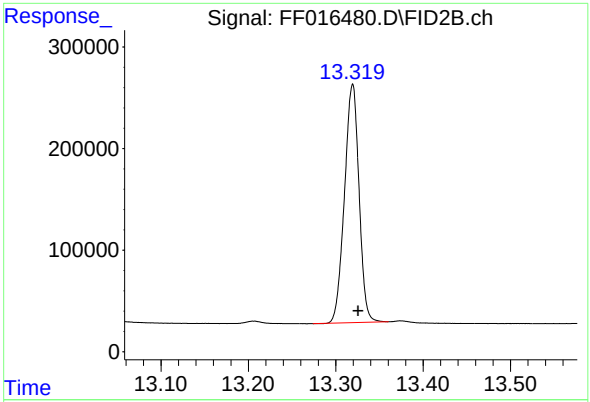
#11 ortho-Terphenyl (SURR)

R.T.: 11.968 min
Delta R.T.: -0.006 min
Response: 2999184
Conc: 19.67 ug/ml



#12 Fluoranthene (C21.85)

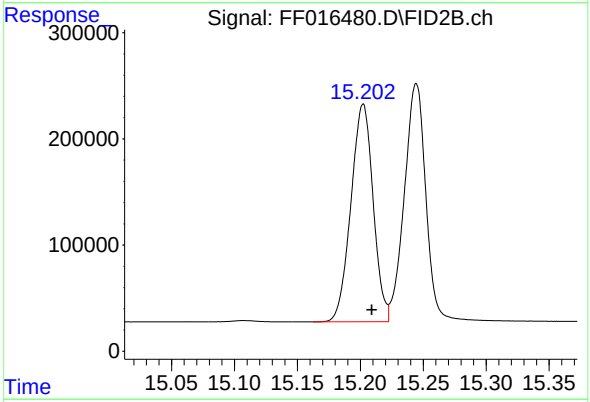
R.T.: 13.020 min
Delta R.T.: -0.007 min
Response: 2819110
Conc: 19.30 ug/ml



#13 Pyrene (C20.8)

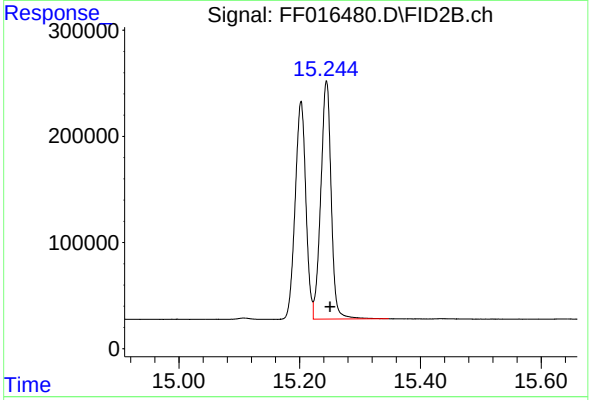
R.T.: 13.319 min
Delta R.T.: -0.006 min
Response: 2720548
Conc: 18.98 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



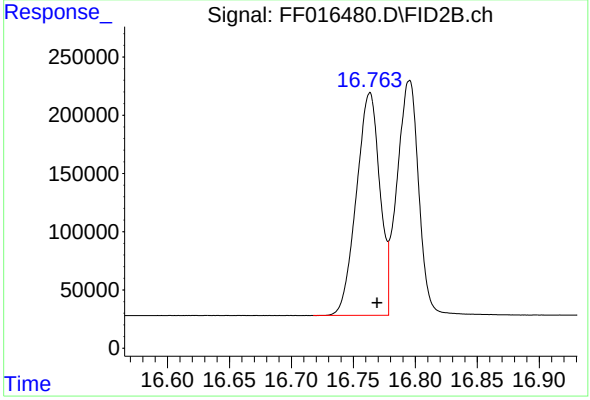
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.202 min
Delta R.T.: -0.007 min
Response: 2518448
Conc: 18.50 ug/ml



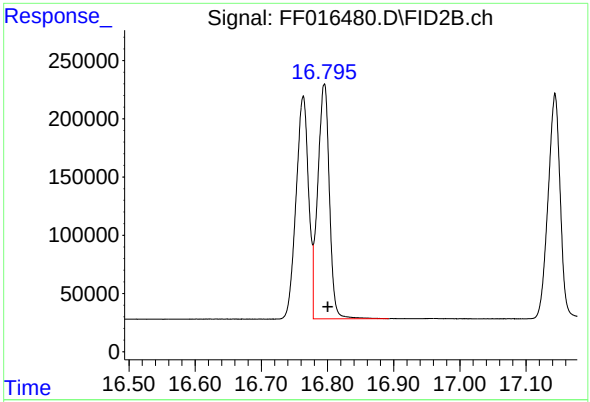
#15 Chrysene (C27.41)

R.T.: 15.244 min
Delta R.T.: -0.006 min
Response: 2682933
Conc: 18.81 ug/ml



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

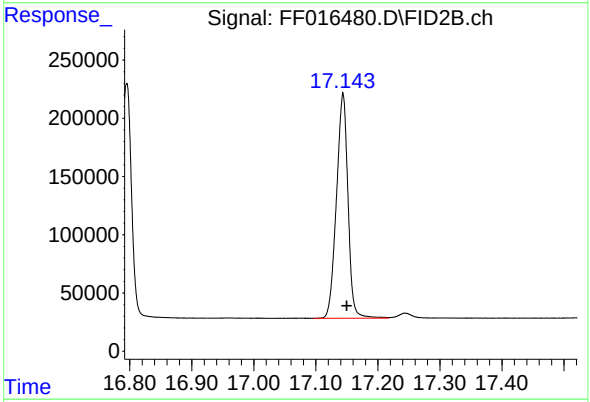
R.T.: 16.763 min
Delta R.T.: -0.006 min
Response: 2512742
Conc: 19.12 ug/ml



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

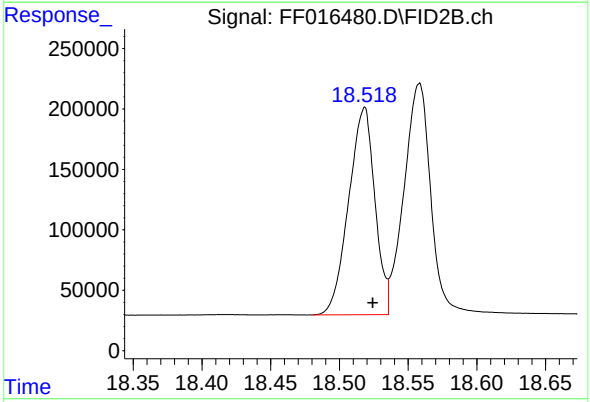
R.T.: 16.795 min
Delta R.T.: -0.006 min
Response: 2474262
Conc: 19.66 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



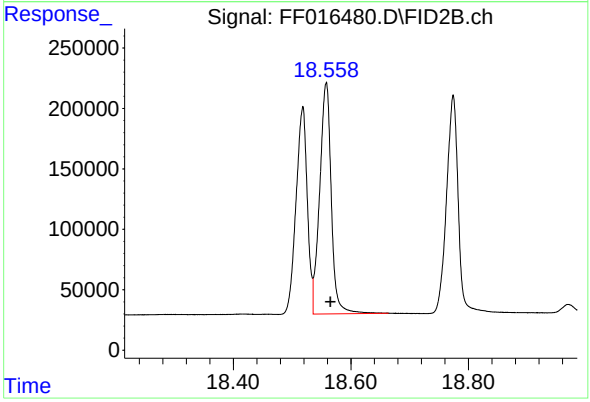
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.144 min
Delta R.T.: -0.006 min
Response: 2486548
Conc: 19.47 ug/ml



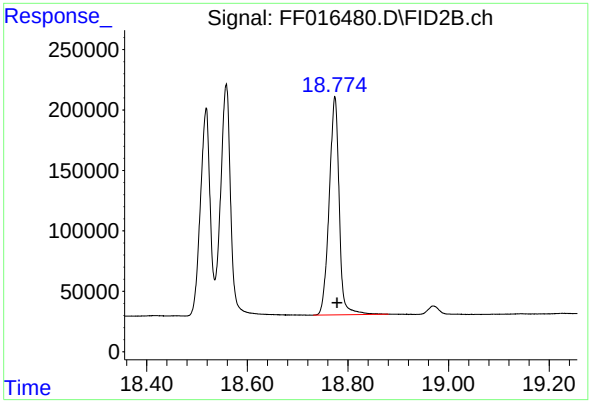
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.518 min
Delta R.T.: -0.006 min
Response: 2278345
Conc: 19.98 ug/ml



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

R.T.: 18.558 min
Delta R.T.: -0.007 min
Response: 2618796
Conc: 20.06 ug/ml



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

R.T.:	18.774 min
Delta R.T.:	-0.004 min
Response:	2492979
Conc:	20.25 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016480.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 22:02
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.586	4.686	BB	298033	2881911	96.07%	5.170%
2	6.295	6.259	6.401	BB	303540	2960097	98.67%	5.310%
3	7.395	7.351	7.509	BB	289878	2999928	100.00%	5.381%
4	8.025	7.992	8.119	BB	245515	2540204	84.68%	4.557%
5	8.701	8.666	8.787	BB	286598	2895979	96.53%	5.195%
6	8.900	8.867	8.972	BV	158577	1719562	57.32%	3.085%
7	9.000	8.972	9.102	VB	289918	2937573	97.92%	5.270%
8	9.790	9.752	9.934	BB	261679	2921064	97.37%	5.240%
9	11.197	11.157	11.243	VV	258301	2867348	95.58%	5.144%
10	11.272	11.243	11.402	VB	200928	2418954	80.63%	4.339%
11	11.968	11.919	12.036	BB	268884	2999184	99.98%	5.380%
12	13.020	12.987	13.124	BB	240798	2819110	93.97%	5.057%
13	13.319	13.274	13.360	BV	234940	2720548	90.69%	4.880%
14	15.202	15.162	15.222	BV	205443	2518448	83.95%	4.518%
15	15.244	15.222	15.347	VB	224458	2682933	89.43%	4.813%
16	16.763	16.717	16.778	BV	190910	2512742	83.76%	4.507%
17	16.795	16.778	16.892	VB	202438	2474262	82.48%	4.438%
18	17.144	17.096	17.217	BV	193924	2486548	82.89%	4.460%
19	18.518	18.481	18.536	BV	170659	2278345	75.95%	4.087%
20	18.558	18.536	18.664	VB	191074	2618796	87.30%	4.698%
21	18.774	18.731	18.881	BB	180843	2492979	83.10%	4.472%

Sum of corrected areas: 55746516

Aromatic EPH 092425.M Tue Sep 30 01:29:44 2025

QC SAMPLE DATA

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 916	Date Received:	
Client Sample ID:	PB169879BL	SDG No.:	Q3177
Lab Sample ID:	PB169879BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
09/29/25 08:30	09/30/25 6:05	PB169879

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.28	U	1	8.28	30.0	ug/l	FE056073.D
Aliphatic C12-C16	Aliphatic C12-C16	13.5	U	1	13.5	20.0	ug/l	FE056073.D
Aliphatic C16-C21	Aliphatic C16-C21	8.34	U	1	8.34	30.0	ug/l	FE056073.D
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	1	12.5	40.0	ug/l	FE056073.D
Aliphatic C28-C40	Aliphatic C28-C40	23.8	U	1	23.8	60.0	ug/l	FE056073.D
Aromatic C10-C12	Aromatic C10-C12	2.07	U	1	2.07	20.0	ug/l	FF016470.D
Aromatic C12-C16	Aromatic C12-C16	4.26	U	1	4.26	30.0	ug/l	FF016470.D
Aromatic C16-C21	Aromatic C16-C21	8.27	U	1	8.27	50.0	ug/l	FF016470.D
Aromatic C21-C36	Aromatic C21-C36	23.8	U	1	23.8	80.0	ug/l	FF016470.D
Total AliphaticEPH	Total AliphaticEPH	66.4	U		66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	38.4	U		38.4	180	ug/l	
Total EPH	Total EPH	105	U		105	360	ug/l	

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:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 916			Date Received:	
Client Sample ID:	PB169879BL			SDG No.:	Q3177
Lab Sample ID:	PB169879BL			Matrix:	Water
Analytical Method:	NJEPH			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056073.D	1	09/29/25	09/30/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.28	U	8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	13.5	U	13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	8.34	U	8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	23.8	U	23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.7		40 - 140	67%	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:	PB169879BL	Acq On:	30 Sep 2025 06:05
Client Sample ID:	PB169879BL	Operator:	YP\AJ
Data file:	FE056073.D	Misc:	
Instrument:	FID_E	ALS Vial:	44
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.315	6.946	0	0	300	ug/ml
Aliphatic C12-C16	6.947	10.396	0	0	200	ug/ml
Aliphatic C16-C21	10.397	13.773	0	0	300	ug/ml
Aliphatic C21-C28	13.774	17.443	0	0	400	ug/ml
Aliphatic C28-C40	17.444	22.449	0	0	600	ug/ml
Aliphatic EPH	3.315	22.449	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.511	13.511	4700764	33.68		ug/ml
Aliphatic C9-C28	3.315	17.443	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056073.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 06:05
Operator : YP\AJ
Sample : PB169879BL
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB169879BL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e
Quant Time: Sep 30 07:24:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.511	4700764	33.681 ug/mlm
Spiked Amount 50.000		Recovery = 67.36%	
Target Compounds			

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056073.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 06:05
Operator : YP\AJ
Sample : PB169879BL
Misc :
ALS Vial : 44 Sample Multiplier: 1

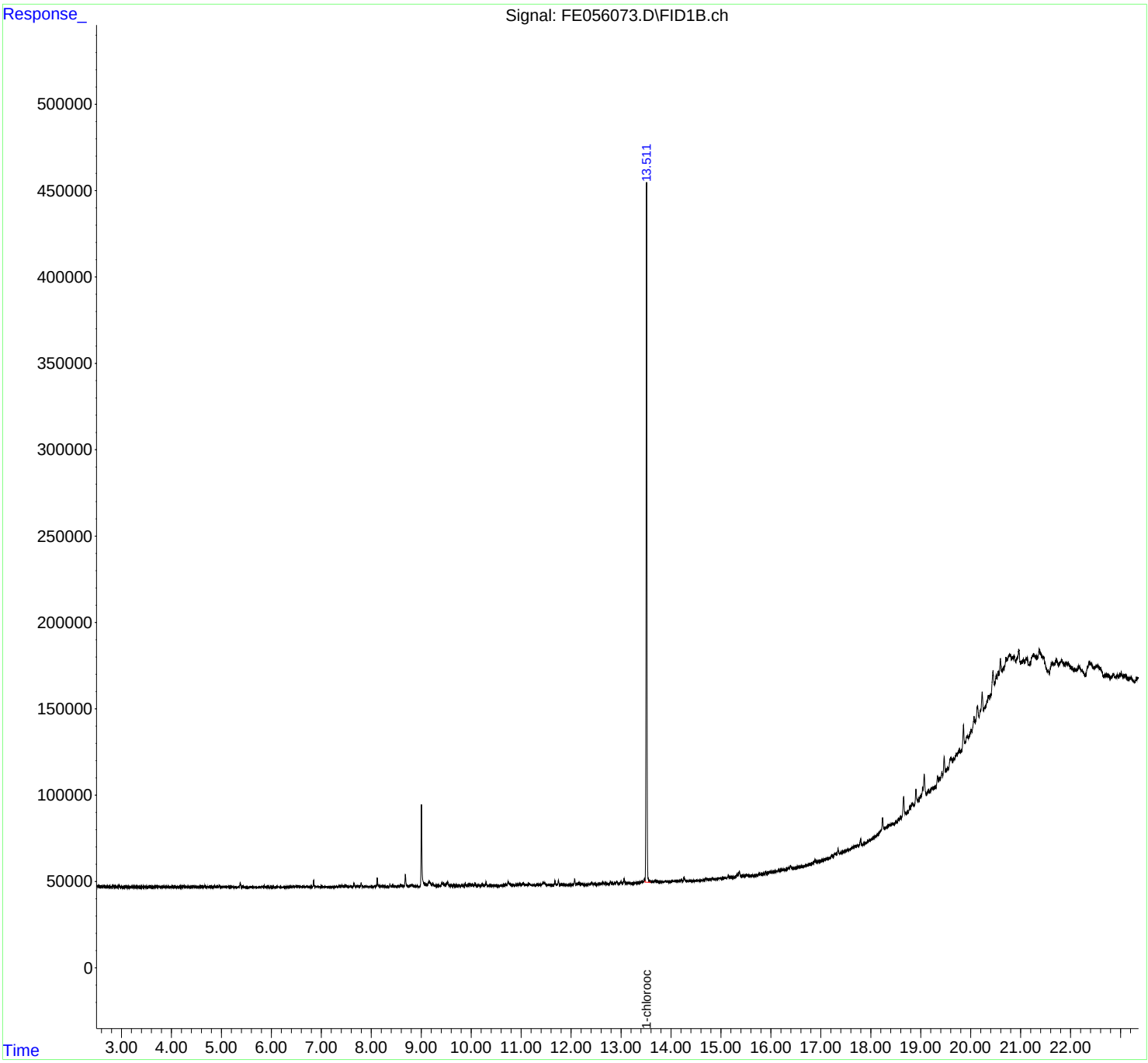
Integration File: autoint1.e
Quant Time: Sep 30 07:24:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

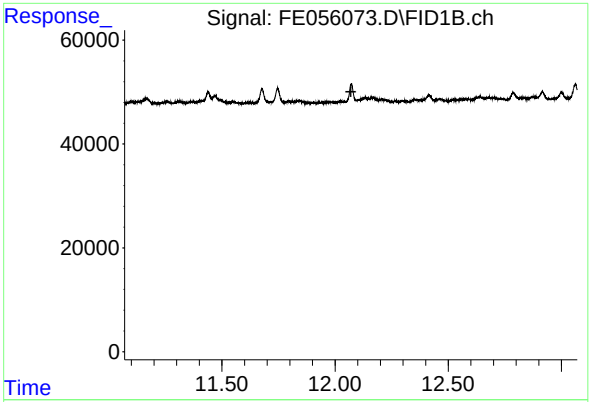
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_E
ClientSampleId :
PB169879BL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025





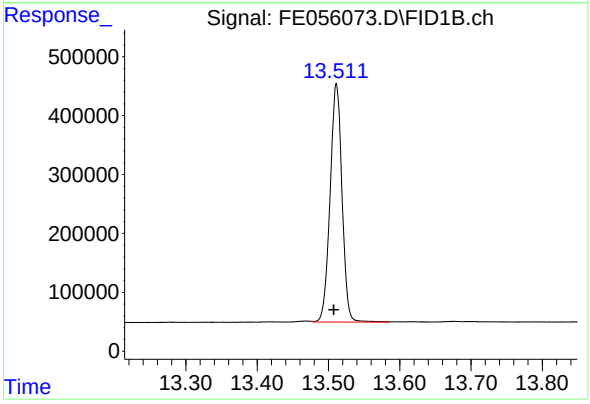
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.070 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
PB169879BL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



#12 1-chlorooctadecane (SURR)

R.T.: 13.511 min
Delta R.T.: 0.003 min
Response: 4700764
Conc: 33.68 ug/ml m

Instrument :
FID_E
ClientSampleId :
PB169879BL

rteres.txt

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE09292
Data File : FE056073.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 06:05
Sample : PB169879BL
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.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	13.511	13.375	13.587	BB	403658	4717078	100.00%	100.000%

Sum of corrected areas: 4717078

Aliphatic EPH 092425.M Tue Sep 30 08:13:22 2025

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 916			Date Received:	
Client Sample ID:	PB169879BL			SDG No.:	Q3177
Lab Sample ID:	PB169879BL			Matrix:	Water
Analytical Method:	NJEPH			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016470.D	1	09/29/25	09/29/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	2.07	U	2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	4.26	U	4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	8.27	U	8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	23.8	U	23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.4		40 - 140	95%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	42.4		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.5		40 - 140	77%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB169879BL	Acq On:	29 Sep 2025 16:35
Client Sample ID:	PB169879BL	Operator:	YP\AJ
Data file:	FF016470.D	Misc:	
Instrument:	FID_F	ALS Vial:	81
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.521	6.397	0	0	200	ug/ml
Aromatic C12-C16	6.398	9.101	0	0	300	ug/ml
Aromatic C16-C21	9.102	13.420	0	0	500	ug/ml
Aromatic C21-C36	13.421	18.876	0	0	800	ug/ml
Aromatic EPH	4.521	18.876	0	0		ug/ml
2-Bromonaphthalene (SURR)	8.027	8.027	5932647	47.36		ug/ml
2-Flurobiphenyl (SURR)	8.903	8.903	3577020	42.41		ug/ml
ortho-Terphenyl (SURR)	11.972	11.972	5862005	38.45		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016470.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 16:35
Operator : YP\AJ
Sample : PB169879BL
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB169879BL

Integration File: autoint1.e
Quant Time: Sep 30 01:03:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
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...	8.027	5932647	47.360 ug/ml
Spiked Amount 50.000		Recovery = 94.72%	
6) S 2-Flurobiphenyl (SURR)	8.903	3577020	42.412 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 84.82%	
11) S ortho-Terphenyl (SURR)	11.972	5862005	38.452 ug/ml
Spiked Amount 50.000		Recovery = 76.90%	
Target Compounds			

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

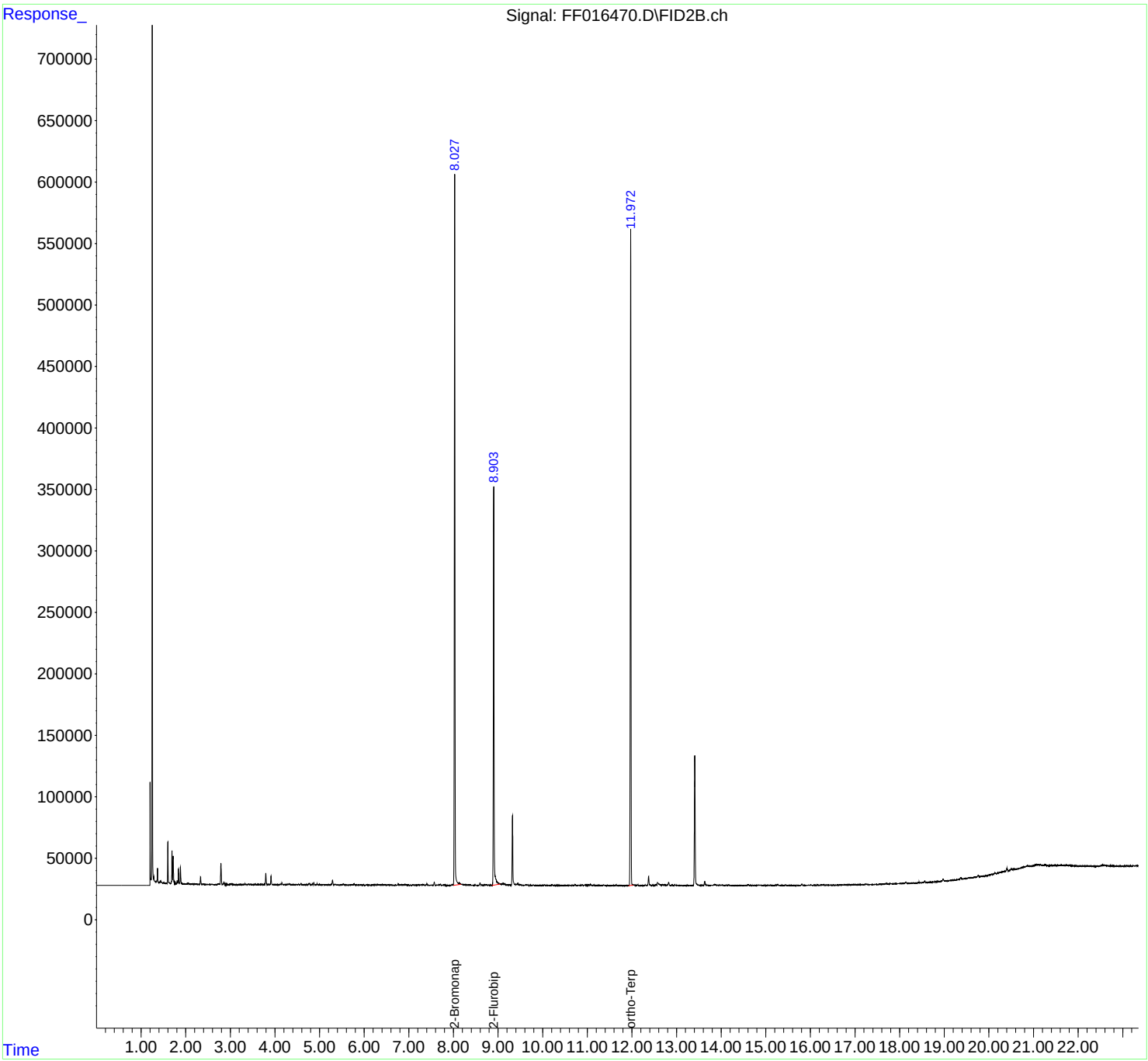
Quantitation Report (QT Reviewed)

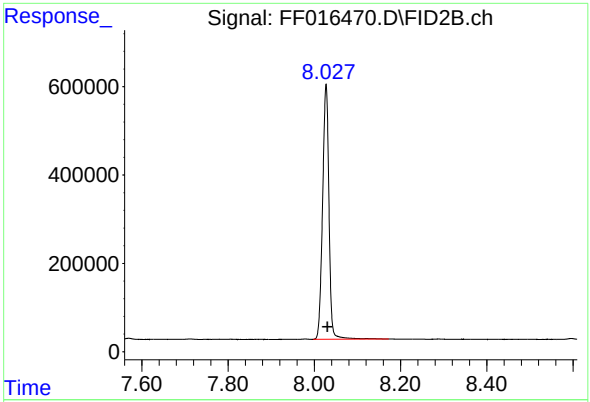
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016470.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 16:35
Operator : YP\AJ
Sample : PB169879BL
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB169879BL

Integration File: autoint1.e
Quant Time: Sep 30 01:03:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

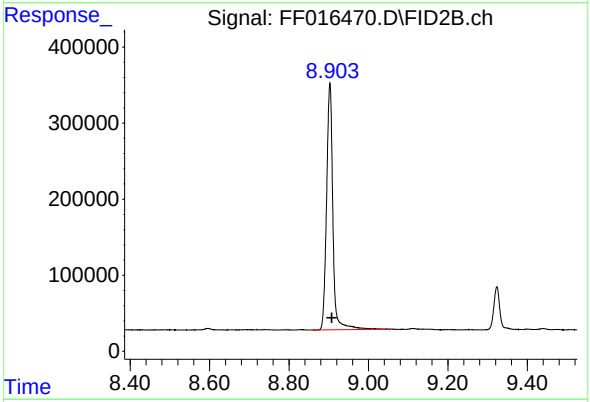




#4 2-Bromonaphthalene (SURR)

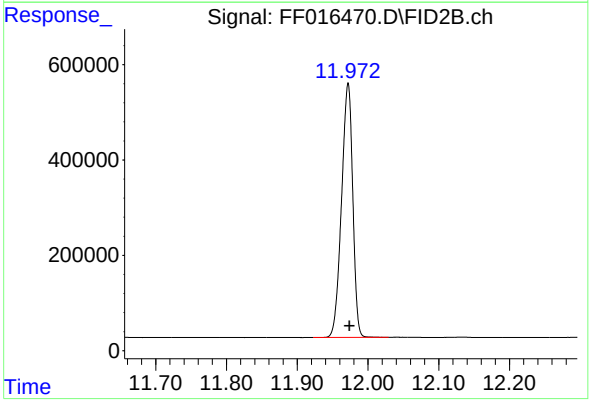
R.T.: 8.027 min
Delta R.T.: -0.003 min
Response: 5932647
Conc: 47.36 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169879BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.903 min
Delta R.T.: -0.005 min
Response: 3577020
Conc: 42.41 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.972 min
Delta R.T.: -0.002 min
Response: 5862005
Conc: 38.45 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016470.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 16:35
Sample : PB169879BL
Misc :
ALS Vial : 81 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	8.027	7.997	8.172	PB	579312	5932647	100.00%	38.595%
2	8.903	8.861	9.051	BB	323486	3577020	60.29%	23.270%
3	11.972	11.922	12.029	BB	535793	5862005	98.81%	38.135%
			Sum of corrected areas:			15371672		

Aromatic EPH 092425.M Tue Sep 30 01:26:50 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 916	Date Received:	
Client Sample ID:	PB169879BS	SDG No.:	Q3177
Lab Sample ID:	PB169879BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
09/29/25 08:30	09/30/25 6:36	PB169879

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	135		1	8.28	30.0	ug/l	FE056074.D
Aliphatic C12-C16	Aliphatic C12-C16	131		1	13.5	20.0	ug/l	FE056074.D
Aliphatic C16-C21	Aliphatic C16-C21	232		1	8.34	30.0	ug/l	FE056074.D
Aliphatic C21-C28	Aliphatic C21-C28	308		1	12.5	40.0	ug/l	FE056074.D
Aliphatic C28-C40	Aliphatic C28-C40	513		1	23.8	60.0	ug/l	FE056074.D
Aromatic C10-C12	Aromatic C10-C12	160		1	2.07	20.0	ug/l	FF016471.D
Aromatic C12-C16	Aromatic C12-C16	266		1	4.26	30.0	ug/l	FF016471.D
Aromatic C16-C21	Aromatic C16-C21	469		1	8.27	50.0	ug/l	FF016471.D
Aromatic C21-C36	Aromatic C21-C36	747		1	23.8	80.0	ug/l	FF016471.D
Total AliphaticEPH	Total AliphaticEPH	1320			66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	1640			38.4	180	ug/l	
Total EPH	Total EPH	2960			105	360	ug/l	

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:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 916		Date Received:		
Client Sample ID:	PB169879BS		SDG No.:	Q3177	
Lab Sample ID:	PB169879BS		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056074.D	1	09/29/25	09/30/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	135		8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	131		13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	232		8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	308		12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	513		23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.1		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:	PB169879BS	Acq On:	30 Sep 2025 06:36
Client Sample ID:	PB169879BS	Operator:	YP\AJ
Data file:	FE056074.D	Misc:	
Instrument:	FID_E	ALS Vial:	45
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.315	6.946	9459557	67.555	300	ug/ml
Aliphatic C12-C16	6.947	10.396	10055370	65.56	200	ug/ml
Aliphatic C16-C21	10.397	13.773	19255750	116.083	300	ug/ml
Aliphatic C21-C28	13.774	17.443	22923674	154.34	400	ug/ml
Aliphatic C28-C40	17.444	22.449	34989557	256.8	600	ug/ml
Aliphatic EPH	3.315	22.449	96683908	660.338		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.512	13.512	6013309	43.09		ug/ml
Aliphatic C9-C28	3.315	17.443	61694351	403.538	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056074.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 06:36
Operator : YP\AJ
Sample : PB169879BS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB169879BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e
Quant Time: Sep 30 07:25:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.512	6013309	43.086 ug/ml
Spiked Amount	50.000		Recovery =	86.17%
	Target Compounds			
1) T	n-Nonane (C9)	3.413	2435500	17.778 ug/ml
2) T	n-Decane (C10)	4.672	3100527	22.216 ug/ml
4) T	n-Dodecane (C12)	6.848	3923530	27.336 ug/ml
6) T	n-Tetradecane (C14)	8.685	4652270	31.467 ug/ml
7) T	n-Hexadecane (C16)	10.299	5403100	34.001 ug/ml
8) T	n-Octadecane (C18)	11.749	6159136	36.362 ug/ml
10) T	n-Eicosane (C20)	13.064	6667862	40.225 ug/ml
11) T	n-Heneicosane (C21)	13.678	6428752	39.564 ug/ml
13) T	n-Docosane (C22)	14.266	6314538	39.517 ug/ml
14) T	n-Tetracosane (C24)	15.372	5923952	38.876 ug/ml
15) T	n-Hexacosane (C26)	16.396	5456075	38.253 ug/ml
16) T	n-Octacosane (C28)	17.348	5229109	37.537 ug/ml
17) T	n-Tricontane (C30)	18.238	5350436	36.107 ug/ml
18) T	n-Dotriacontane (C32)	19.072	5566625	37.310 ug/ml
19) T	n-Tetratriacontane (C34)	19.859	5733604	40.534 ug/ml
20) T	n-Hexatriacontane (C36)	20.601	5953243	46.375 ug/ml
21) T	n-Octatriacontane (C38)	21.378	6088588	46.357 ug/mlm
22) T	n-Tetracontane (C40)	22.361	5881420	49.437 ug/ml

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

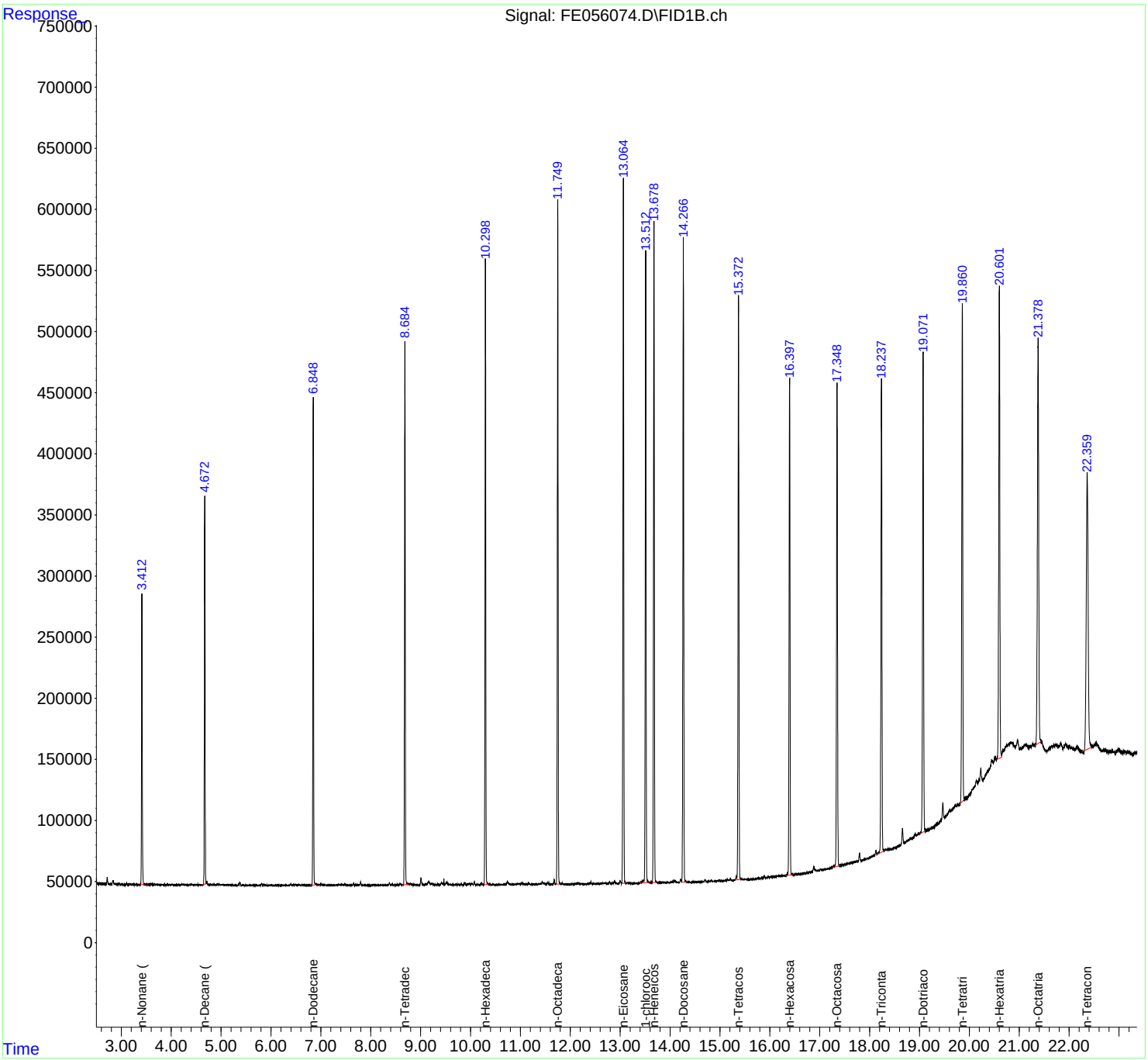
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056074.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 06:36
Operator : YP\AJ
Sample : PB169879BS
Misc :
ALS Vial : 45 Sample Multiplier: 1

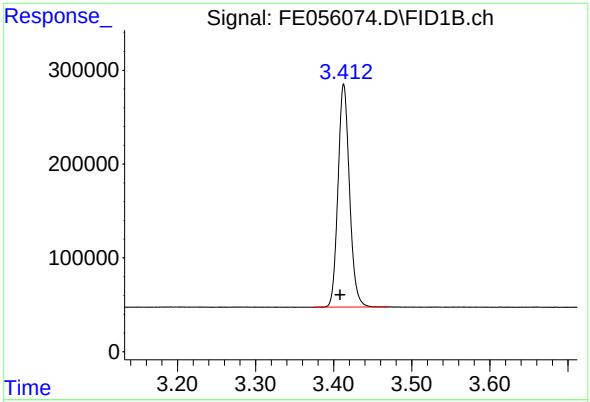
Integration File: autoint1.e
Quant Time: Sep 30 07:25:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_E
ClientSampleId :
PB169879BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025





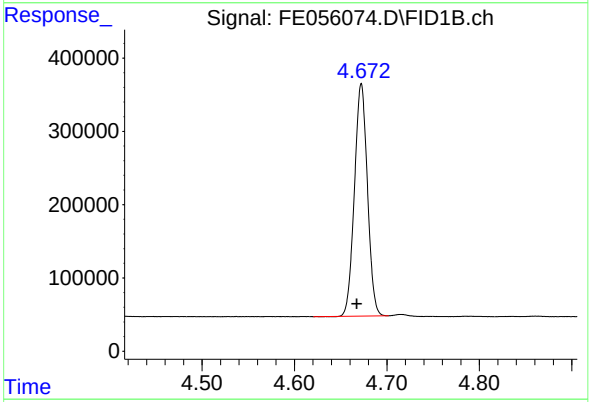
#1 n-Nonane (C9)

R.T.: 3.413 min
Delta R.T.: 0.005 min
Response: 2435500
Conc: 17.78 ug/ml

Instrument :
FID_E
ClientSampleId :
PB169879BS

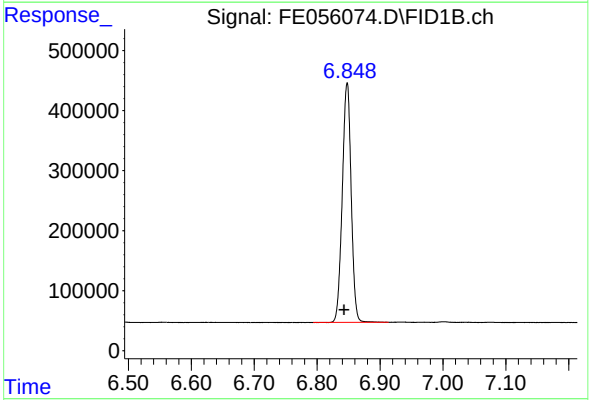
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



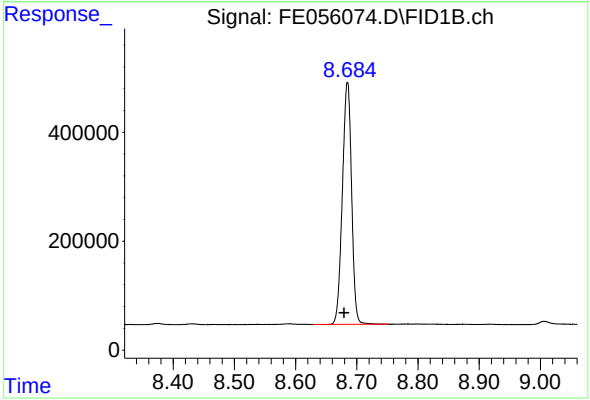
#2 n-Decane (C10)

R.T.: 4.672 min
Delta R.T.: 0.005 min
Response: 3100527
Conc: 22.22 ug/ml



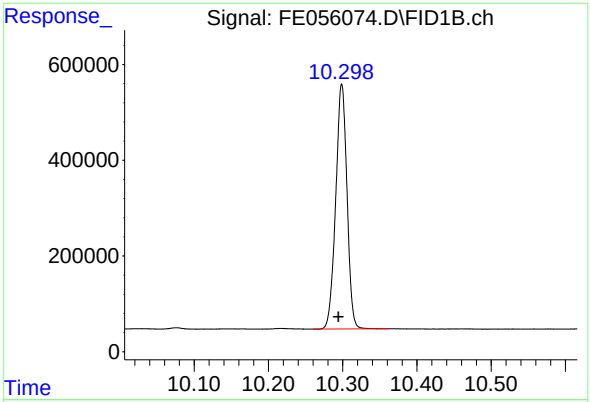
#4 n-Dodecane (C12)

R.T.: 6.848 min
Delta R.T.: 0.005 min
Response: 3923530
Conc: 27.34 ug/ml



#6 n-Tetradecane (C14)

R.T.: 8.685 min
Delta R.T.: 0.005 min
Response: 4652270
Conc: 31.47 ug/ml



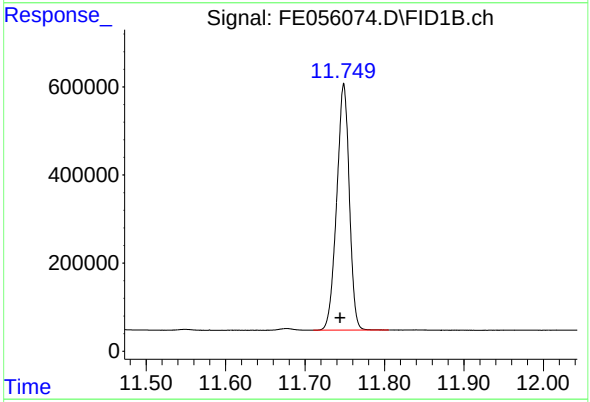
#7 n-Hexadecane (C16)

R.T.: 10.299 min
Delta R.T.: 0.004 min
Response: 5403100
Conc: 34.00 ug/ml

Instrument :
FID_E
ClientSampleId :
PB169879BS

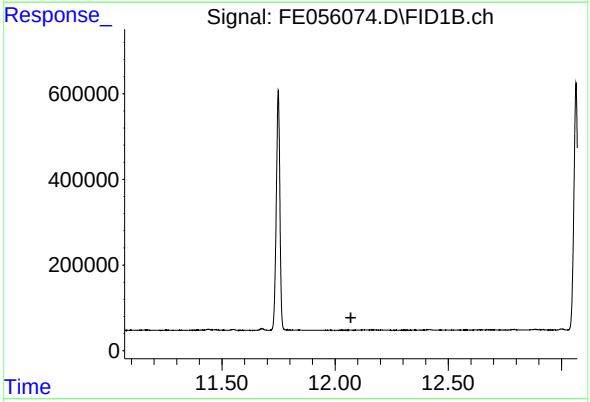
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



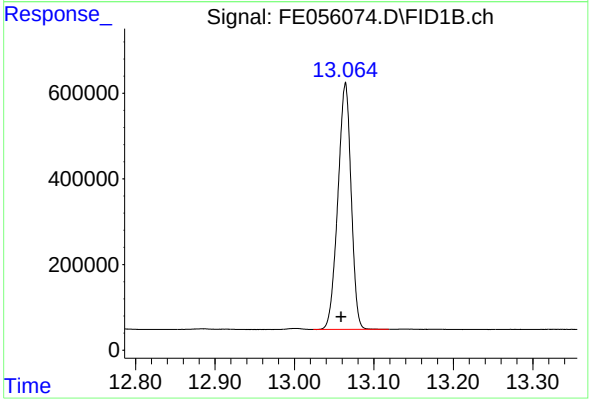
#8 n-Octadecane (C18)

R.T.: 11.749 min
Delta R.T.: 0.005 min
Response: 6159136
Conc: 36.36 ug/ml



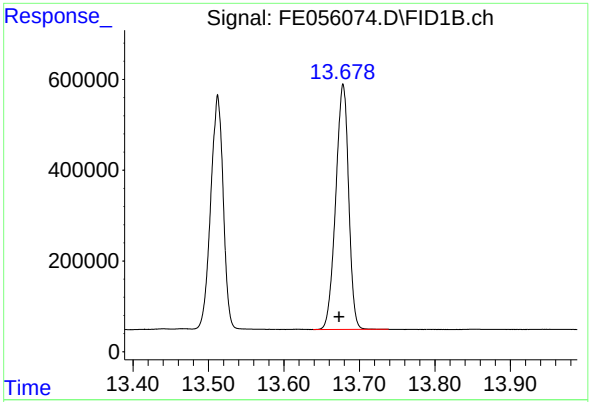
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.070 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

R.T.: 13.064 min
Delta R.T.: 0.005 min
Response: 6667862
Conc: 40.22 ug/ml



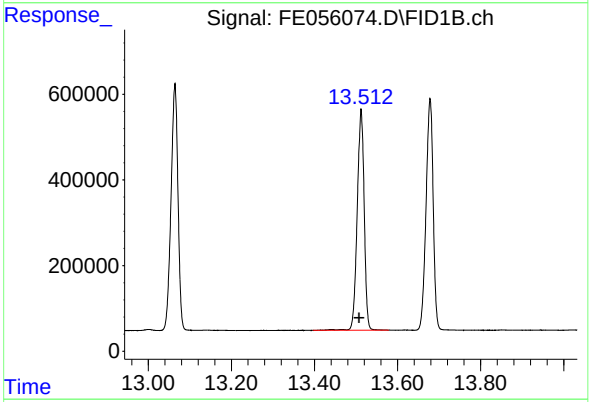
#11 n-Heneicosane (C21)

R.T.: 13.678 min
Delta R.T.: 0.005 min
Response: 6428752
Conc: 39.56 ug/ml

Instrument :
FID_E
ClientSampleId :
PB169879BS

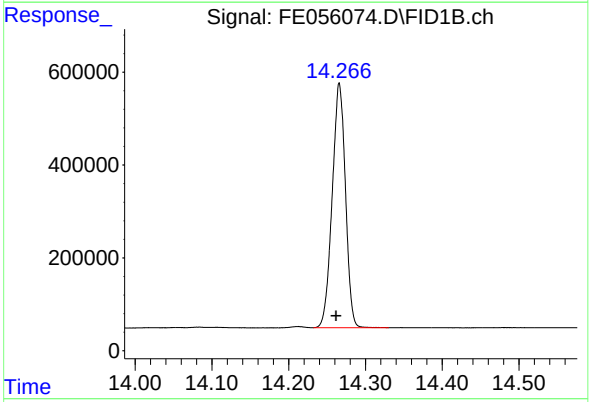
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



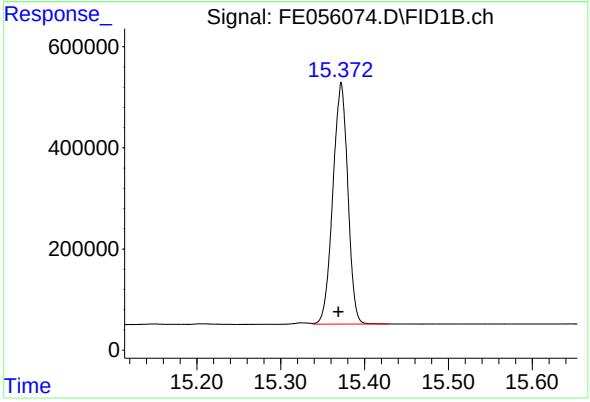
#12 1-chlorooctadecane (SURR)

R.T.: 13.512 min
Delta R.T.: 0.005 min
Response: 6013309
Conc: 43.09 ug/ml



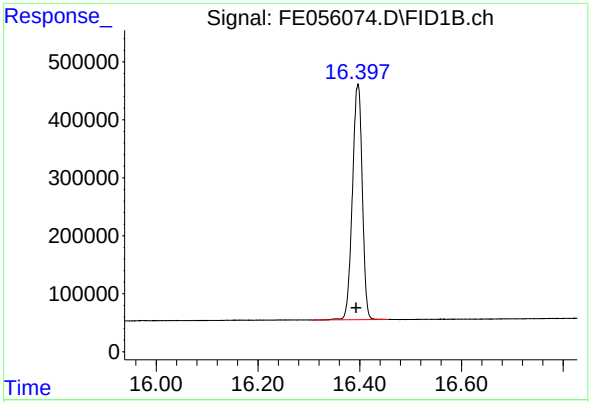
#13 n-Docosane (C22)

R.T.: 14.266 min
Delta R.T.: 0.005 min
Response: 6314538
Conc: 39.52 ug/ml



#14 n-Tetracosane (C24)

R.T.: 15.372 min
Delta R.T.: 0.003 min
Response: 5923952
Conc: 38.88 ug/ml



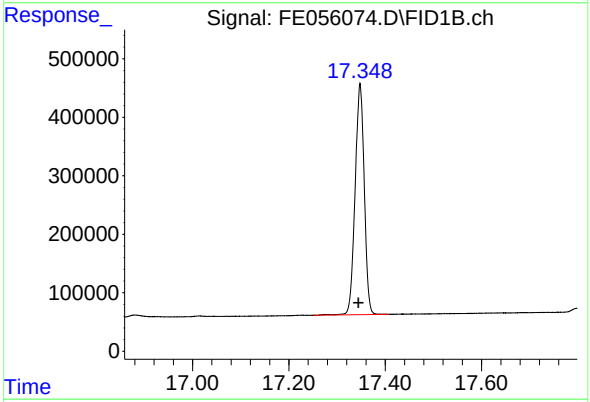
#15 n-Hexacosane (C26)

R.T.: 16.396 min
Delta R.T.: 0.004 min
Response: 5456075
Conc: 38.25 ug/ml

Instrument :
FID_E
ClientSampleId :
PB169879BS

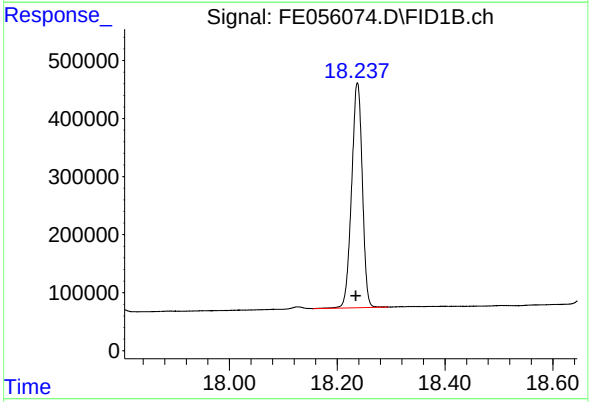
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



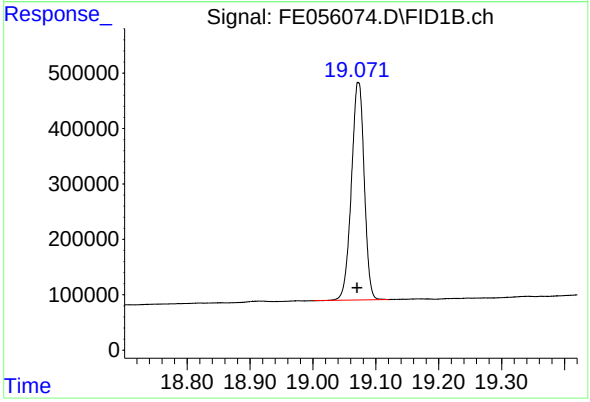
#16 n-Octacosane (C28)

R.T.: 17.348 min
Delta R.T.: 0.003 min
Response: 5229109
Conc: 37.54 ug/ml



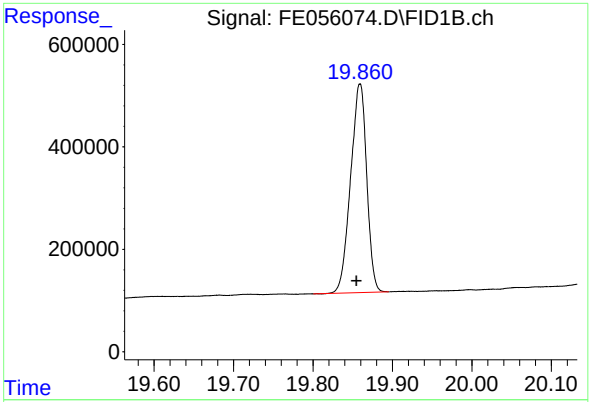
#17 n-Tricontane (C30)

R.T.: 18.238 min
Delta R.T.: 0.003 min
Response: 5350436
Conc: 36.11 ug/ml



#18 n-Dotriacontane (C32)

R.T.: 19.072 min
Delta R.T.: 0.002 min
Response: 5566625
Conc: 37.31 ug/ml



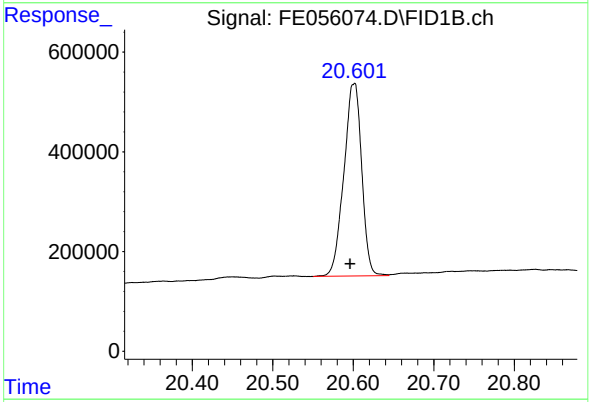
#19 n-Tetratriacontane (C34)

R.T.: 19.859 min
Delta R.T.: 0.004 min
Response: 5733604
Conc: 40.53 ug/ml

Instrument :
FID_E
ClientSampleId :
PB169879BS

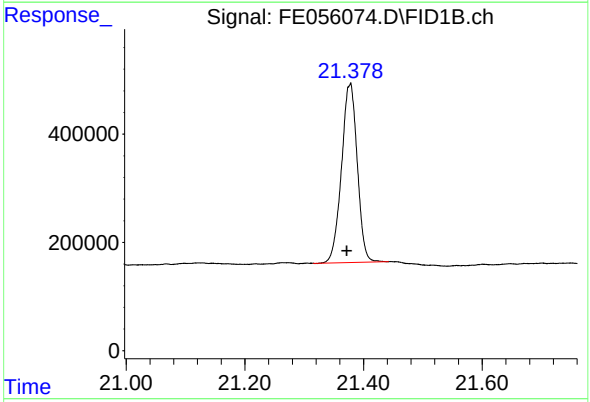
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



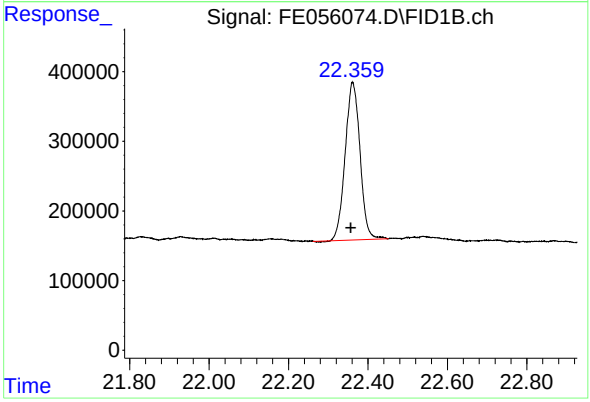
#20 n-Hexatriacontane (C36)

R.T.: 20.601 min
Delta R.T.: 0.005 min
Response: 5953243
Conc: 46.38 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.378 min
Delta R.T.: 0.007 min
Response: 6088588
Conc: 46.36 ug/ml m



#22 n-Tetracontane (C40)

R.T.: 22.361 min
Delta R.T.: 0.005 min
Response: 5881420
Conc: 49.44 ug/ml

Instrument :
FID_E
ClientSampleId :
PB169879BS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE09292
Data File : FE056074.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 06:36
Sample : PB169879BS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.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	3.413	3.374	3.470	BB	237400	2435500	36.53%	2.372%
2	4.672	4.620	4.702	BV	317085	3100527	46.50%	3.019%
3	6.848	6.794	6.914	BB	398490	3923530	58.84%	3.820%
4	8.685	8.629	8.752	BB	446114	4652270	69.77%	4.530%
5	10.299	10.260	10.362	BB	511659	5403100	81.03%	5.261%
6	11.749	11.710	11.805	BB	558554	6159136	92.37%	5.997%
7	13.064	13.024	13.119	PB	573196	6667862	100.00%	6.493%
8	13.512	13.397	13.579	BB	516678	6013309	90.18%	5.855%
9	13.678	13.639	13.739	BB	541185	6428752	96.41%	6.260%
10	14.266	14.232	14.330	VB	527753	6314538	94.70%	6.149%
11	15.372	15.339	15.429	VB	478387	5923952	88.84%	5.768%
12	16.396	16.309	16.457	BB	407098	5456075	81.83%	5.313%
13	17.348	17.250	17.407	BB	394222	5229109	78.42%	5.092%
14	18.238	18.155	18.295	VV	387460	5350436	80.24%	5.210%
15	19.072	19.000	19.120	BB	392478	5566625	83.48%	5.420%
16	19.859	19.800	19.895	BV	407794	5733604	85.99%	5.583%
17	20.601	20.550	20.644	BV	385078	5953243	89.28%	5.797%
18	21.377	21.300	21.540	BV	331835	6504229	97.55%	6.333%
19	22.361	22.262	22.452	BV	226471	5881420	88.21%	5.727%

Sum of corrected areas: 102697215

Aliphatic EPH 092425.M Tue Sep 30 08:14:23 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 916		Date Received:		
Client Sample ID:	PB169879BS		SDG No.:	Q3177	
Lab Sample ID:	PB169879BS		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016471.D	1	09/29/25	09/29/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	160		2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	266		4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	469		8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	747		23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	54.0		40 - 140	108%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	54.4		40 - 140	109%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.4		40 - 140	91%	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:	PB169879BS	Acq On:	29 Sep 2025 17:05
Client Sample ID:	PB169879BS	Operator:	YP\AJ
Data file:	FF016471.D	Misc:	
Instrument:	FID_F	ALS Vial:	82
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.521	6.397	11469188	80.024	200	ug/ml
Aromatic C12-C16	6.398	9.101	19349655	133.275	300	ug/ml
Aromatic C16-C21	9.102	13.420	33865528	234.895	500	ug/ml
Aromatic C21-C36	13.421	18.876	48882281	373.62	800	ug/ml
Aromatic EPH	4.521	18.876	113566652	821.814		ug/ml
2-Bromonaphthalene (SURR)	8.028	8.028	6761441	53.98		ug/ml
2-Flurobiphenyl (SURR)	8.905	8.905	4591039	54.44		ug/ml
ortho-Terphenyl (SURR)	11.972	11.972	6923797	45.42		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016471.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 17:05
Operator : YP\AJ
Sample : PB169879BS
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB169879BS

Integration File: autoint1.e
Quant Time: Sep 30 01:04:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
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...	8.028	6761441	53.976 ug/ml
Spiked Amount	50.000		Recovery =	107.95%
6)	S 2-Flurobiphenyl (SURR)	8.905	4591039	54.435 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	108.87%
11)	S ortho-Terphenyl (SURR)	11.972	6923797	45.417 ug/ml
Spiked Amount	50.000		Recovery =	90.83%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.621	5352626	37.972 ug/ml
2)	T Naphthalene (C11.7)	6.297	6116562	41.986 ug/ml
3)	T 2-Methylnaphthalene (...	7.398	5957164	40.464 ug/ml
5)	T Acenaphthylene (C15.06)	8.705	6686342	46.139 ug/ml
7)	T Acenaphthene (C15.5)	9.005	6706149	46.759 ug/ml
8)	T Flouorene (C16.55)	9.795	6915095	47.868 ug/ml
9)	T Phenanthrene (C19.36)	11.203	6857027	47.012 ug/ml
10)	T Anthracene (C19.43)	11.279	6695772	46.801 ug/ml
12)	T Fluoranthene (C21.85)	13.027	6718611	46.002 ug/ml
13)	T Pyrene (C20.8)	13.326	6679023	46.608 ug/ml
14)	T Benzo[a]anthracene (C...	15.210	6281921	46.149 ug/ml
15)	T Chrysene (C27.41)	15.255	7217787	50.599 ug/ml
16)	T benzo[b]fluoranthene ...	16.772	6002410	45.681 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.807	6001192	47.678 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.155	5801355	45.433 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.531	6219562	54.539 ug/ml
20)	T Dibenz[a,h]anthracene...	18.570	5756376	44.093 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.789	5601678	45.491 ug/ml

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

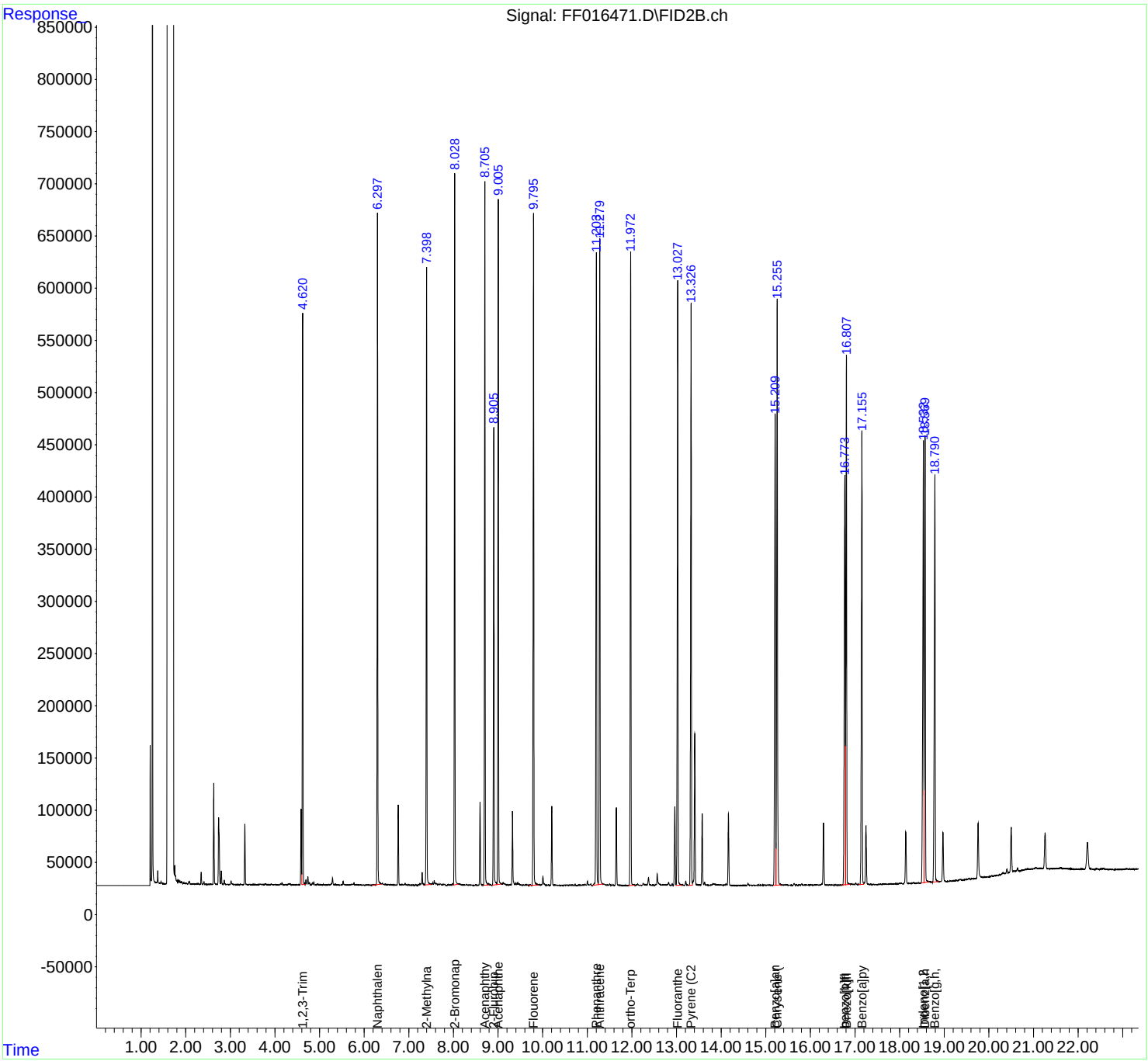
Quantitation Report (QT Reviewed)

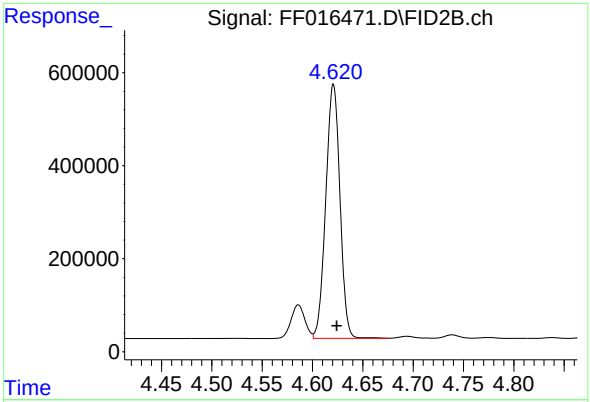
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016471.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 17:05
Operator : YP\AJ
Sample : PB169879BS
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB169879BS

Integration File: autoint1.e
Quant Time: Sep 30 01:04:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

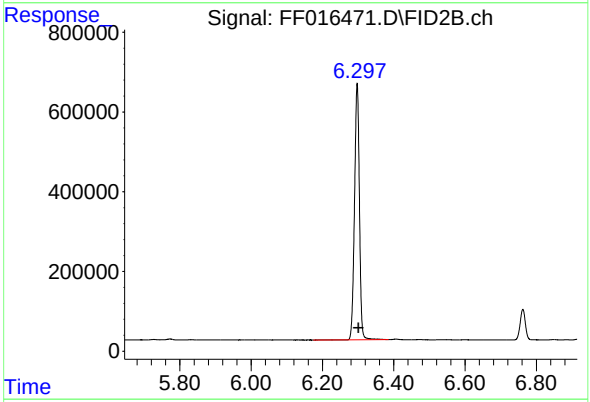




#1 1,2,3-Trimethylbenzene (C10.1)

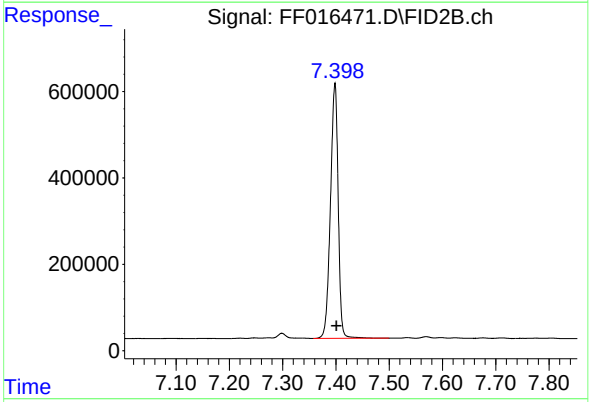
R.T.: 4.621 min
Delta R.T.: -0.003 min
Response: 5352626
Conc: 37.97 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169879BS



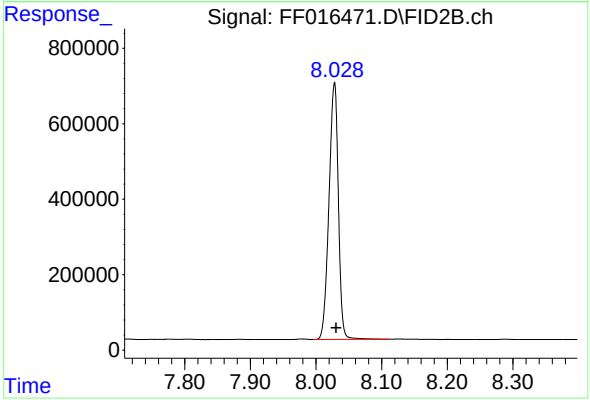
#2 Naphthalene (C11.7)

R.T.: 6.297 min
Delta R.T.: -0.004 min
Response: 6116562
Conc: 41.99 ug/ml



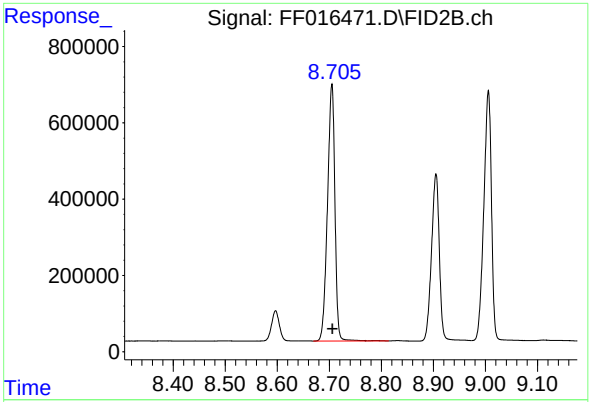
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.398 min
Delta R.T.: -0.003 min
Response: 5957164
Conc: 40.46 ug/ml



#4 2-Bromonaphthalene (SURR)

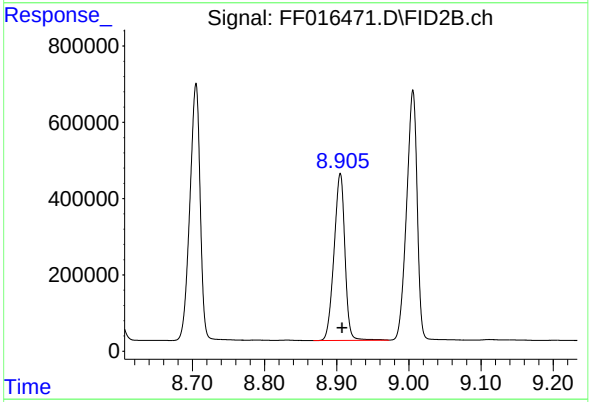
R.T.: 8.028 min
Delta R.T.: -0.003 min
Response: 6761441
Conc: 53.98 ug/ml



#5 Acenaphthylene (C15.06)

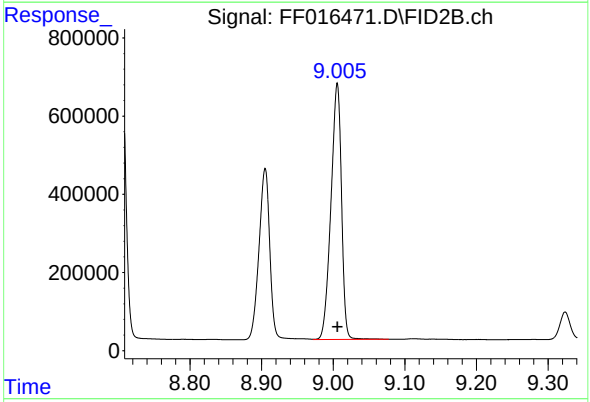
R.T.: 8.705 min
Delta R.T.: -0.002 min
Response: 6686342
Conc: 46.14 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169879BS



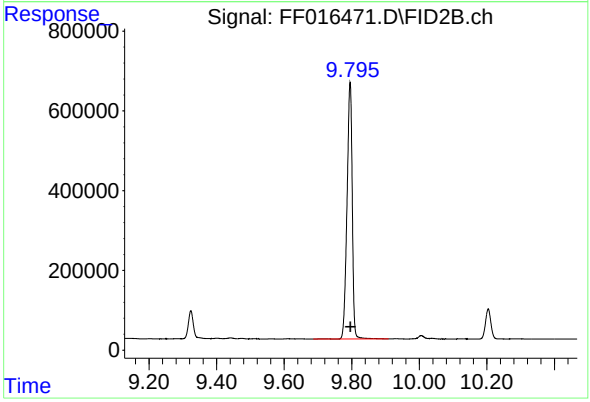
#6 2-Flurobiphenyl (SURR)

R.T.: 8.905 min
Delta R.T.: -0.003 min
Response: 4591039
Conc: 54.44 ug/ml



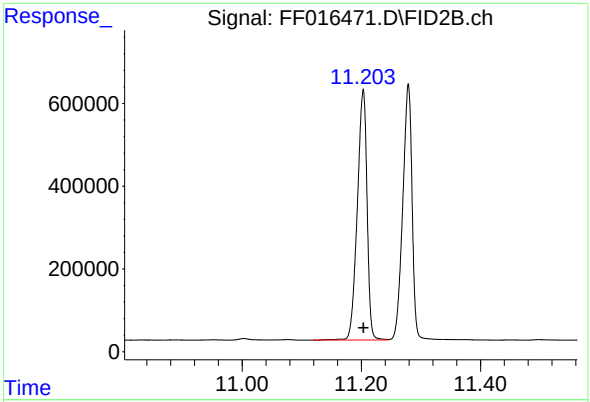
#7 Acenaphthene (C15.5)

R.T.: 9.005 min
Delta R.T.: 0.000 min
Response: 6706149
Conc: 46.76 ug/ml



#8 Flouorene (C16.55)

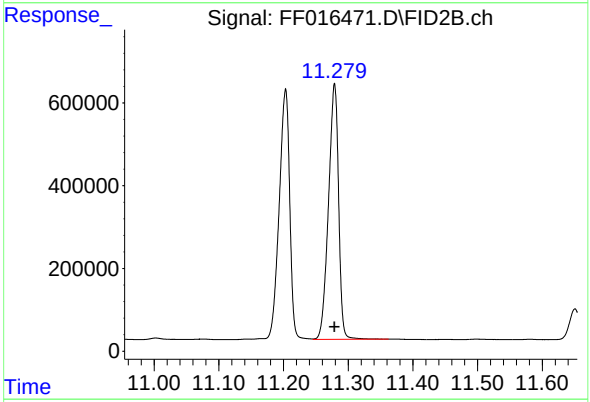
R.T.: 9.795 min
Delta R.T.: 0.000 min
Response: 6915095
Conc: 47.87 ug/ml



#9 Phenanthrene (C19.36)

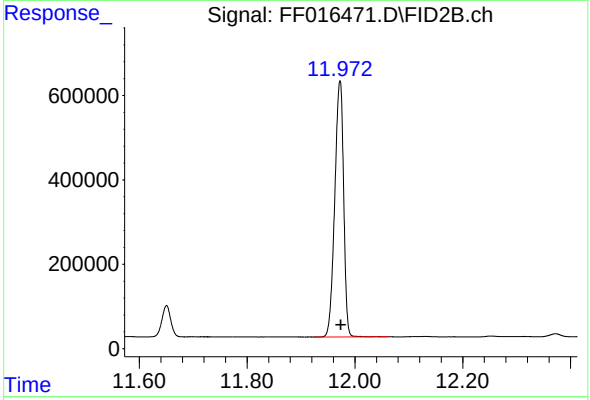
R.T.: 11.203 min
Delta R.T.: 0.000 min
Response: 6857027
Conc: 47.01 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169879BS



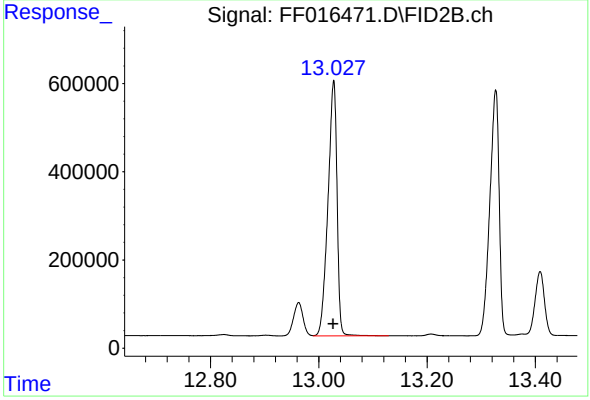
#10 Anthracene (C19.43)

R.T.: 11.279 min
Delta R.T.: 0.000 min
Response: 6695772
Conc: 46.80 ug/ml



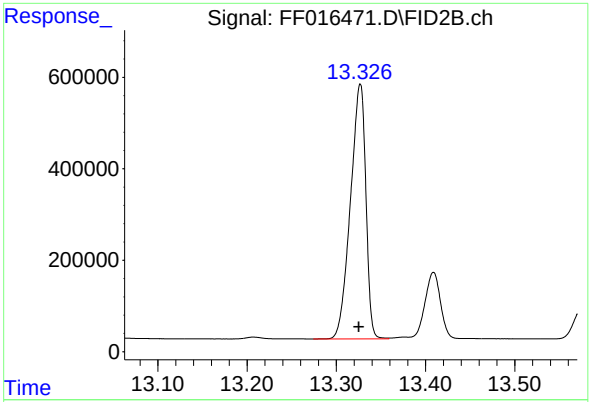
#11 ortho-Terphenyl (SURR)

R.T.: 11.972 min
Delta R.T.: -0.002 min
Response: 6923797
Conc: 45.42 ug/ml



#12 Fluoranthene (C21.85)

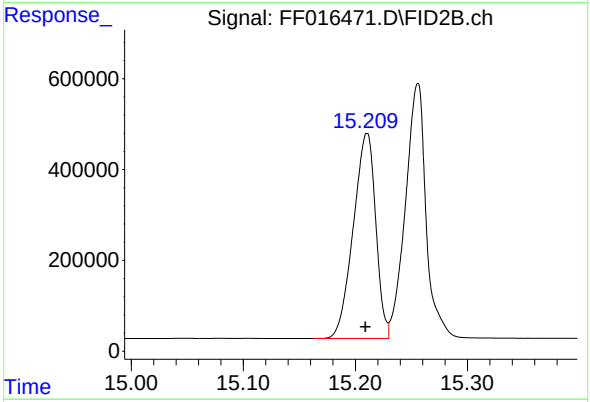
R.T.: 13.027 min
Delta R.T.: 0.000 min
Response: 6718611
Conc: 46.00 ug/ml



#13 Pyrene (C20.8)

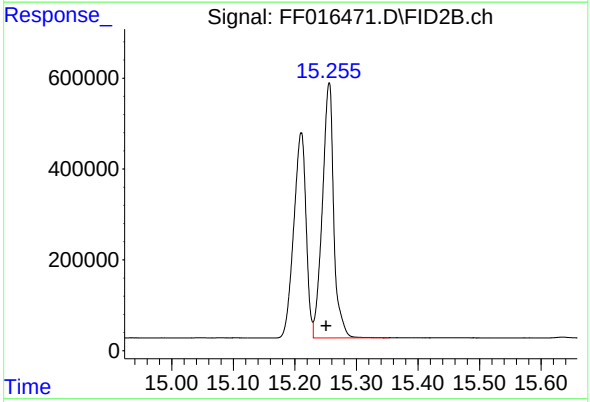
R.T.: 13.326 min
Delta R.T.: 0.001 min
Response: 6679023
Conc: 46.61 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169879BS



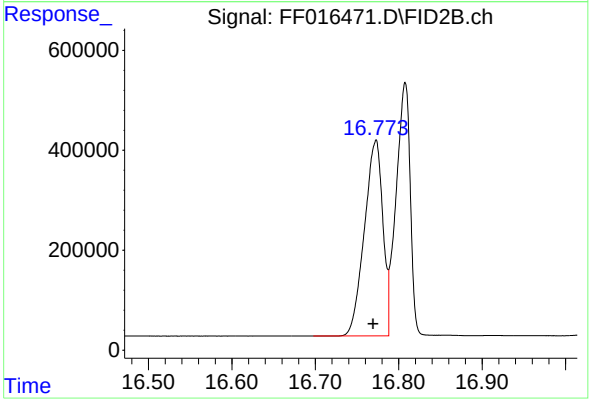
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.210 min
Delta R.T.: 0.001 min
Response: 6281921
Conc: 46.15 ug/ml



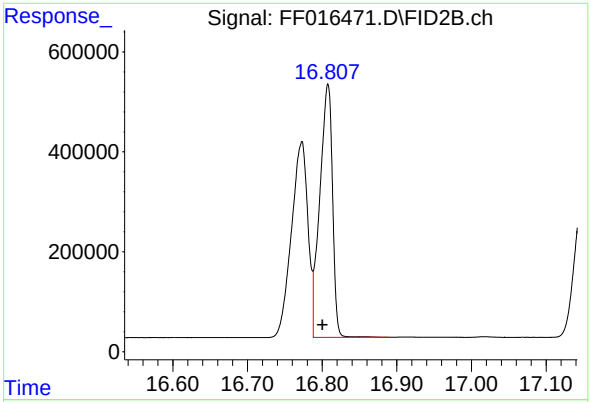
#15 Chrysene (C27.41)

R.T.: 15.255 min
Delta R.T.: 0.005 min
Response: 7217787
Conc: 50.60 ug/ml



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

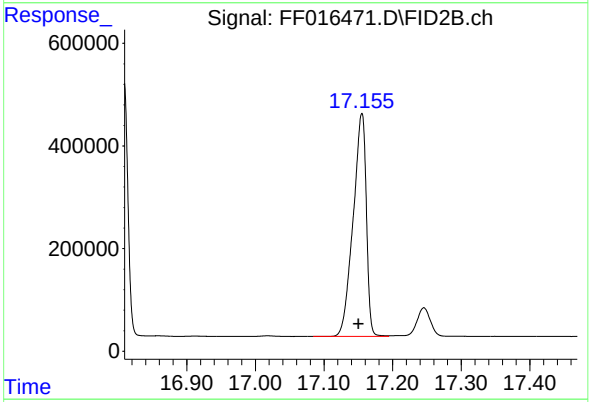
R.T.: 16.772 min
Delta R.T.: 0.003 min
Response: 6002410
Conc: 45.68 ug/ml



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

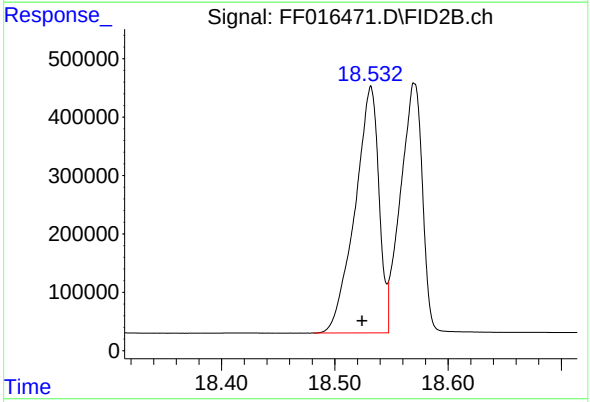
R.T.: 16.807 min
Delta R.T.: 0.007 min
Response: 6001192
Conc: 47.68 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169879BS



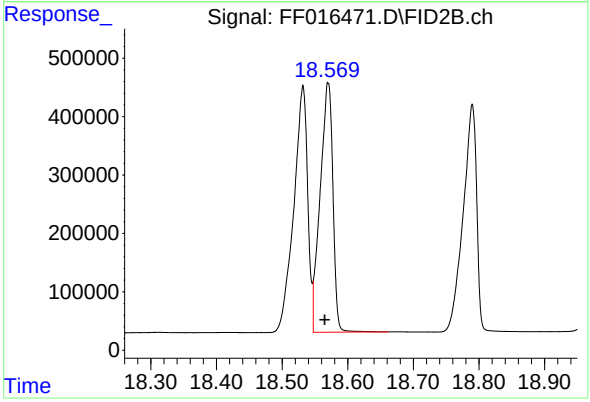
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.155 min
Delta R.T.: 0.005 min
Response: 5801355
Conc: 45.43 ug/ml



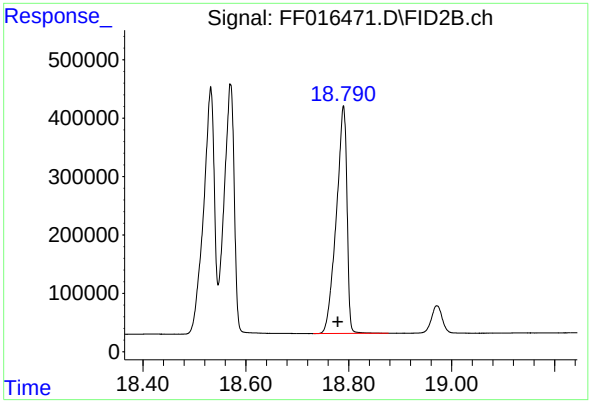
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.531 min
Delta R.T.: 0.007 min
Response: 6219562
Conc: 54.54 ug/ml



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

R.T.: 18.570 min
Delta R.T.: 0.005 min
Response: 5756376
Conc: 44.09 ug/ml



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

R.T.: 18.789 min
Delta R.T.: 0.011 min
Response: 5601678
Conc: 45.49 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169879BS

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016471.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 17:05
Sample : PB169879BS
Misc :
ALS Vial : 82 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.621	4.601	4.676	VV	547005	5352626	74.16%	4.060%
2	6.297	6.174	6.386	BV	643503	6116562	84.74%	4.639%
3	7.398	7.357	7.499	BB	587400	5957164	82.53%	4.518%
4	8.028	7.996	8.111	PV	678078	6761441	93.68%	5.128%
5	8.705	8.669	8.814	BV	670643	6686342	92.64%	5.071%
6	8.905	8.867	8.972	BV	437092	4591039	63.61%	3.482%
7	9.005	8.972	9.077	VV	657841	6706149	92.91%	5.086%
8	9.795	9.686	9.909	BV	647038	6915095	95.81%	5.245%
9	11.203	11.119	11.246	BV	601389	6857027	95.00%	5.201%
10	11.279	11.246	11.362	VB	620549	6695772	92.77%	5.079%
11	11.972	11.922	12.062	BB	608122	6923797	95.93%	5.252%
12	13.027	12.990	13.129	VB	579571	6718611	93.08%	5.096%
13	13.326	13.274	13.359	BV	557027	6679023	92.54%	5.066%
14	15.210	15.162	15.230	BV	452765	6281921	87.03%	4.765%
15	15.255	15.230	15.352	VB	563241	7217787	100.00%	5.475%
16	16.772	16.697	16.788	BV	391581	6002410	83.16%	4.553%
17	16.807	16.788	16.889	VB	508019	6001192	83.14%	4.552%
18	17.155	17.084	17.194	BV	434131	5801355	80.38%	4.400%
19	18.531	18.481	18.547	BV	420184	6219562	86.17%	4.717%
20	18.570	18.547	18.662	VB	427620	5756376	79.75%	4.366%
21	18.789	18.731	18.877	BB	390221	5601678	77.61%	4.249%

Sum of corrected areas: 131842928

Aromatic EPH 092425.M Tue Sep 30 01:27:59 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	09/23/25	
Project:	RFP 916		Date Received:	09/23/25	
Client Sample ID:	EME-TS14-01MS		SDG No.:	Q3177	
Lab Sample ID:	Q3179-02		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056056.D	1	09/29/25	09/29/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	333		8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	293		13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	404		8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	486		12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	1130		23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	59.0		40 - 140	118%	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:	Q3179-02	Acq On:	29 Sep 2025 20:27
Client Sample ID:	EME-TS14-01MS	Operator:	YP\AJ
Data file:	FE056056.D	Misc:	
Instrument:	FID_E	ALS Vial:	29
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.315	6.946	23325505	166.577	300	ug/ml
Aliphatic C12-C16	6.947	10.396	22517640	146.813	200	ug/ml
Aliphatic C16-C21	10.397	13.773	33564962	202.345	300	ug/ml
Aliphatic C21-C28	13.774	17.443	36153890	243.416	400	ug/ml
Aliphatic C28-C40	17.444	22.449	77058424	565.558	600	ug/ml
Aliphatic EPH	3.315	22.449	192620421	1320		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.512	13.512	8241176	59.05		ug/ml
Aliphatic C9-C28	3.315	17.443	115561997	759.151	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056056.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 20:27
Operator : YP\AJ
Sample : Q3179-02
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MS

Integration File: autoint1.e
Quant Time: Sep 30 00:31:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.512	8241176	59.049 ug/ml
Spiked Amount	50.000		Recovery =	118.10%
	Target Compounds			
1) T	n-Nonane (C9)	3.417	5766711	42.095 ug/ml
2) T	n-Decane (C10)	4.676	7141108	51.168 ug/ml
4) T	n-Dodecane (C12)	6.850	8564543	59.671 ug/ml
6) T	n-Tetradecane (C14)	8.687	9479288	64.116 ug/ml
7) T	n-Hexadecane (C16)	10.301	10442627	65.715 ug/ml
8) T	n-Octadecane (C18)	11.750	10836487	63.976 ug/ml
10) T	n-Eicosane (C20)	13.066	10924367	65.903 ug/ml
11) T	n-Heneicosane (C21)	13.680	10172257	62.602 ug/ml
13) T	n-Docosane (C22)	14.267	9756059	61.055 ug/ml
14) T	n-Tetracosane (C24)	15.374	9010437	59.131 ug/ml
15) T	n-Hexacosane (C26)	16.396	8341622	58.484 ug/ml
16) T	n-Octacosane (C28)	17.349	8067644	57.913 ug/ml
17) T	n-Tricontane (C30)	18.238	8292786	55.964 ug/ml
18) T	n-Dotriacontane (C32)	19.073	8500117	56.972 ug/ml
19) T	n-Tetratriacontane (C34)	19.859	8822187	62.369 ug/ml
20) T	n-Hexatriacontane (C36)	20.601	9062793	70.599 ug/ml
21) T	n-Octatriacontane (C38)	21.378	9363961	71.294 ug/ml
22) T	n-Tetracontane (C40)	22.361	8664314	72.829 ug/ml

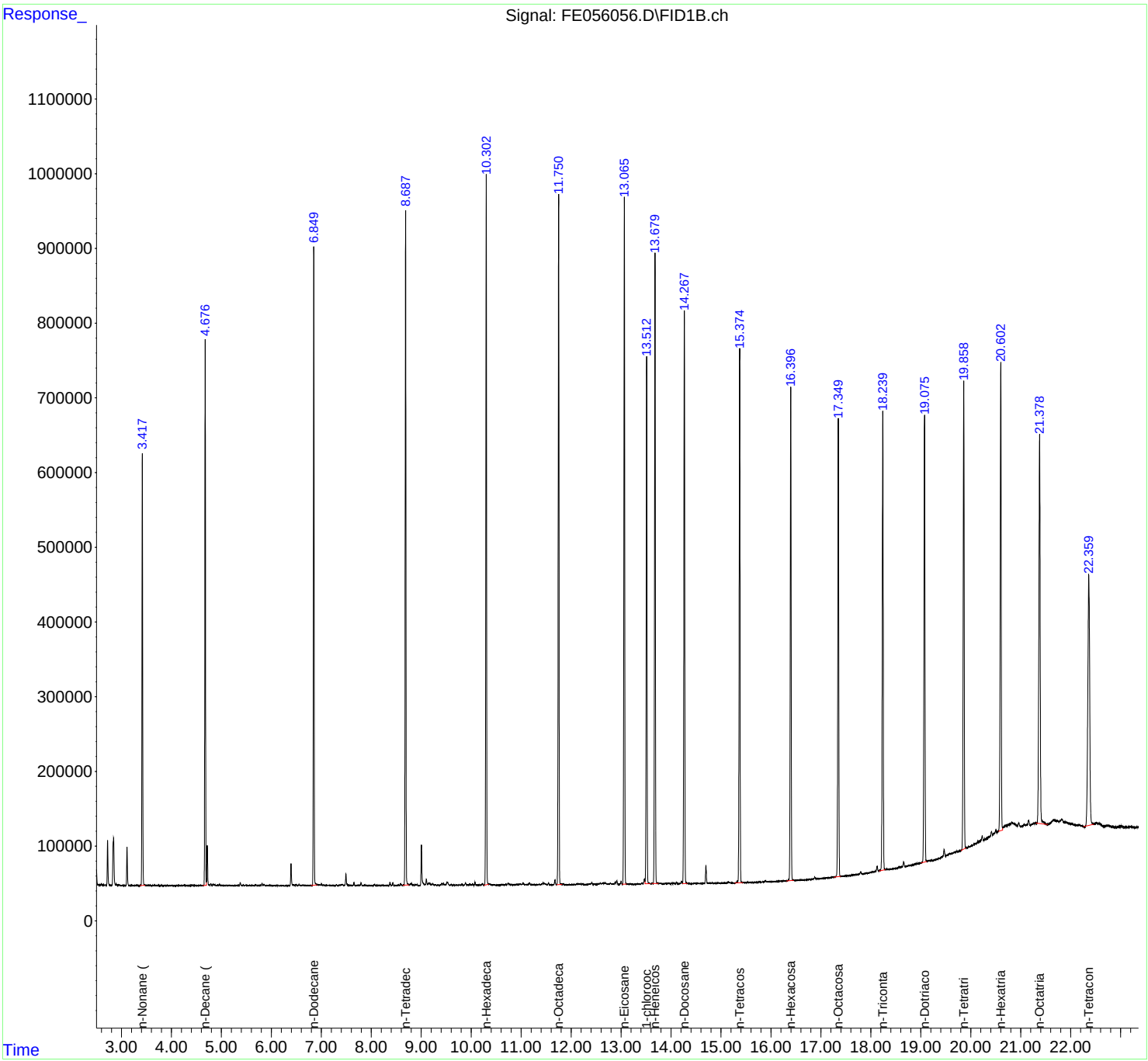
(f)=RT Delta > 1/2 Window (m)=manual int.

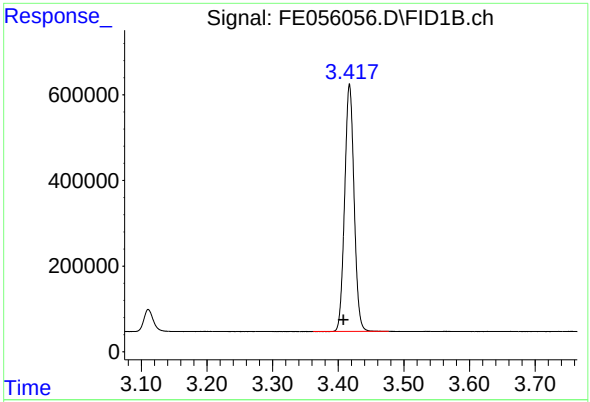
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056056.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 20:27
Operator : YP\AJ
Sample : Q3179-02
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MS

Integration File: autoint1.e
Quant Time: Sep 30 00:31:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

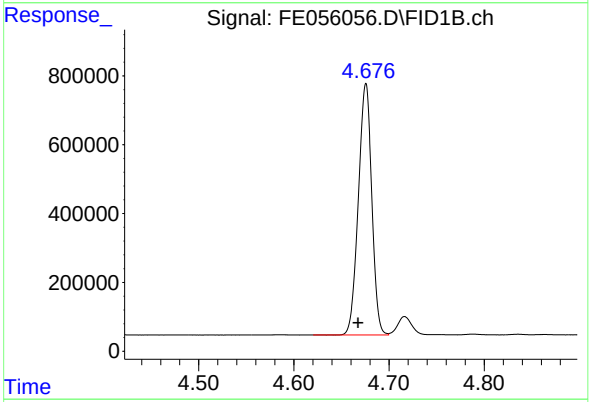




#1 n-Nonane (C9)

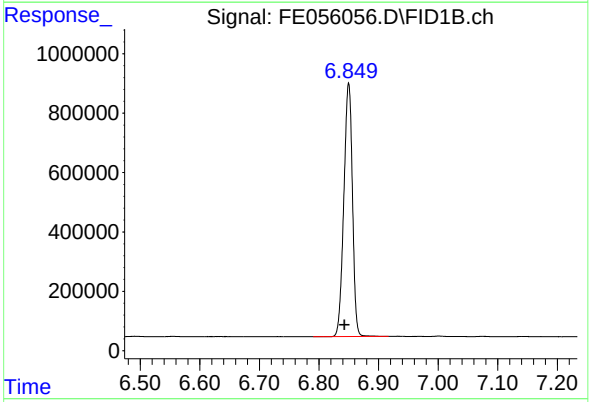
R.T.: 3.417 min
Delta R.T.: 0.009 min
Response: 5766711
Conc: 42.10 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MS



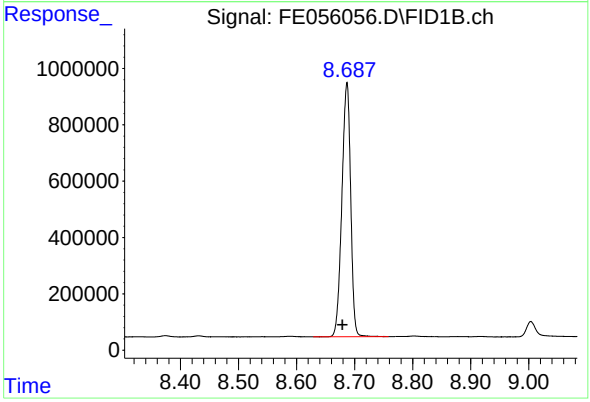
#2 n-Decane (C10)

R.T.: 4.676 min
Delta R.T.: 0.008 min
Response: 7141108
Conc: 51.17 ug/ml



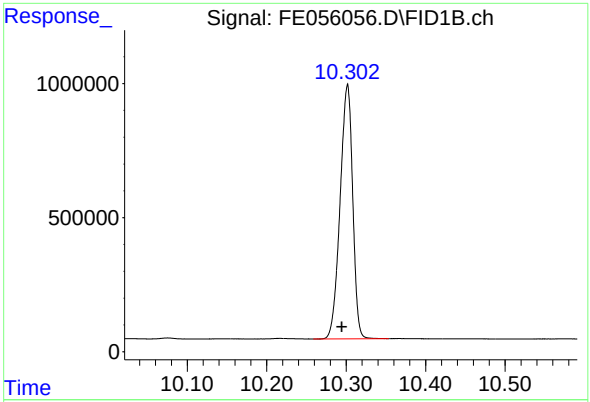
#4 n-Dodecane (C12)

R.T.: 6.850 min
Delta R.T.: 0.007 min
Response: 8564543
Conc: 59.67 ug/ml



#6 n-Tetradecane (C14)

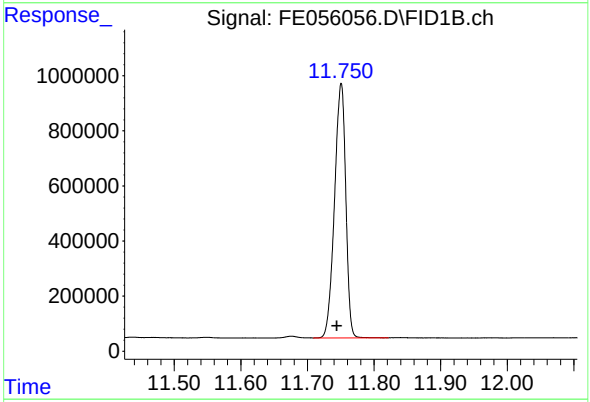
R.T.: 8.687 min
Delta R.T.: 0.007 min
Response: 9479288
Conc: 64.12 ug/ml



#7 n-Hexadecane (C16)

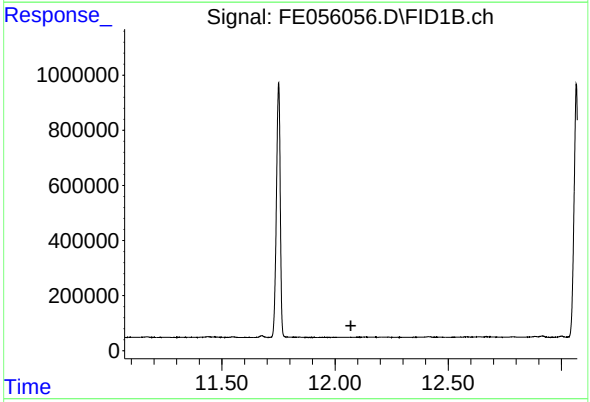
R.T.: 10.301 min
Delta R.T.: 0.007 min
Response: 10442627
Conc: 65.71 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MS



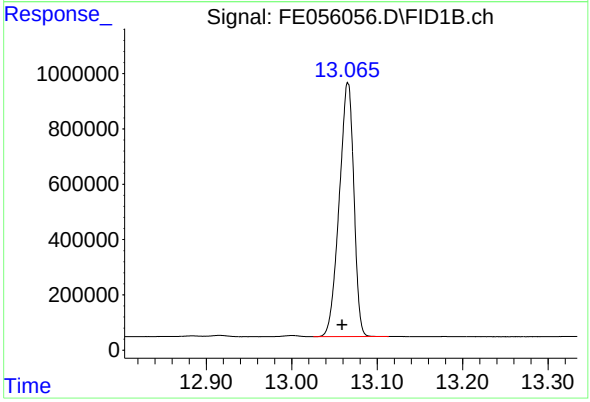
#8 n-Octadecane (C18)

R.T.: 11.750 min
Delta R.T.: 0.006 min
Response: 10836487
Conc: 63.98 ug/ml



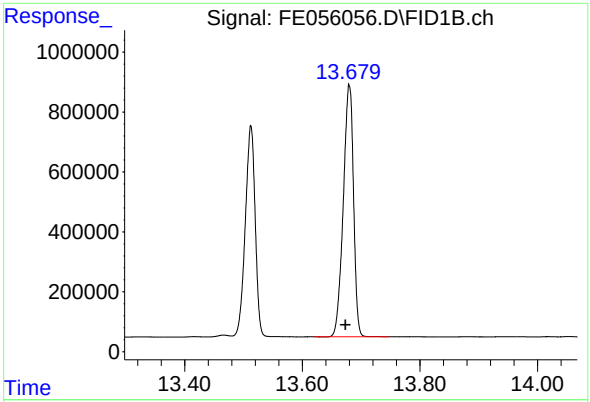
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.070 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

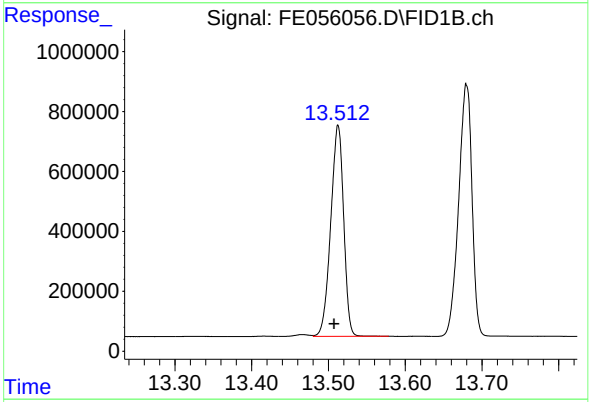
R.T.: 13.066 min
Delta R.T.: 0.007 min
Response: 10924367
Conc: 65.90 ug/ml



#11 n-Heneicosane (C21)

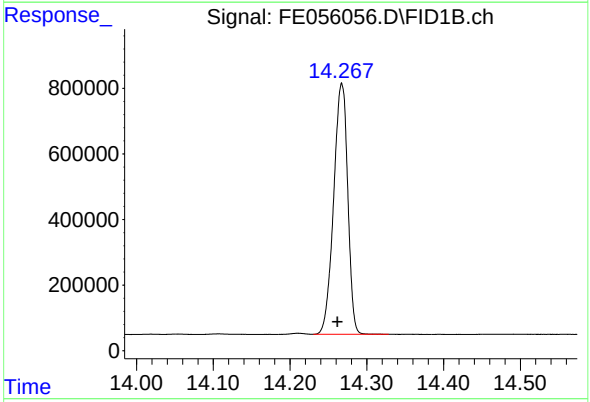
R.T.: 13.680 min
Delta R.T.: 0.007 min
Response: 10172257
Conc: 62.60 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MS



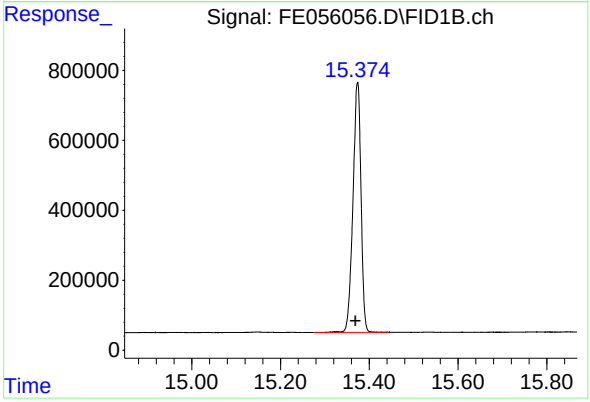
#12 1-chlorooctadecane (SURR)

R.T.: 13.512 min
Delta R.T.: 0.005 min
Response: 8241176
Conc: 59.05 ug/ml



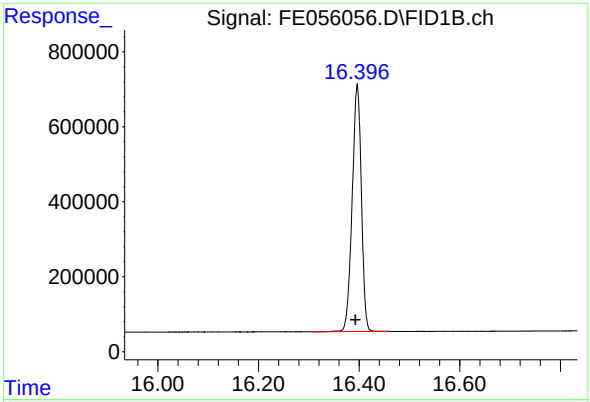
#13 n-Docosane (C22)

R.T.: 14.267 min
Delta R.T.: 0.006 min
Response: 9756059
Conc: 61.06 ug/ml



#14 n-Tetracosane (C24)

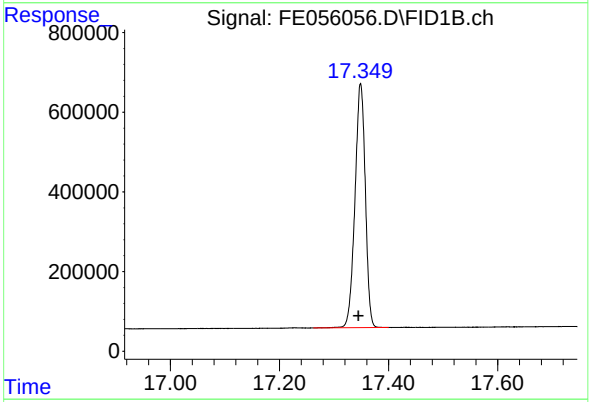
R.T.: 15.374 min
Delta R.T.: 0.005 min
Response: 9010437
Conc: 59.13 ug/ml



#15 n-Hexacosane (C26)

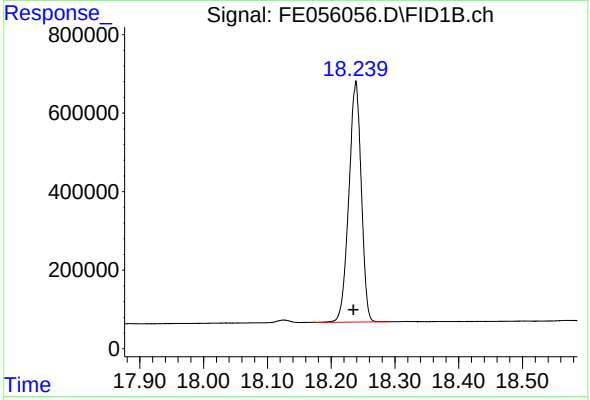
R.T.: 16.396 min
Delta R.T.: 0.004 min
Response: 8341622
Conc: 58.48 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MS



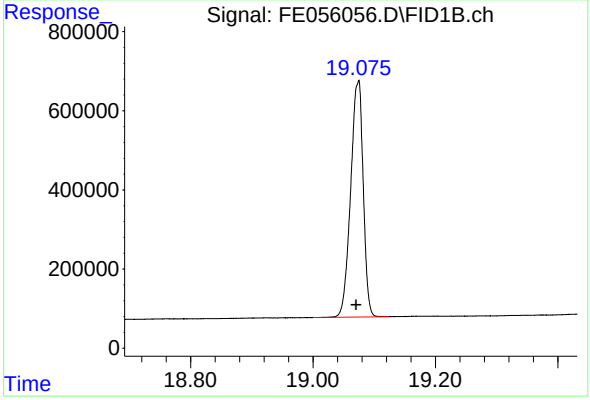
#16 n-Octacosane (C28)

R.T.: 17.349 min
Delta R.T.: 0.004 min
Response: 8067644
Conc: 57.91 ug/ml



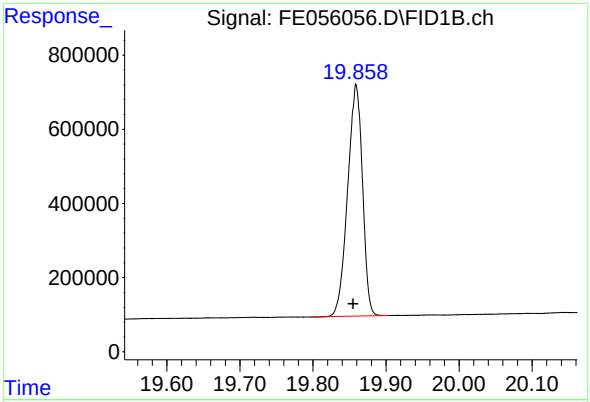
#17 n-Tricontane (C30)

R.T.: 18.238 min
Delta R.T.: 0.004 min
Response: 8292786
Conc: 55.96 ug/ml



#18 n-Dotriacontane (C32)

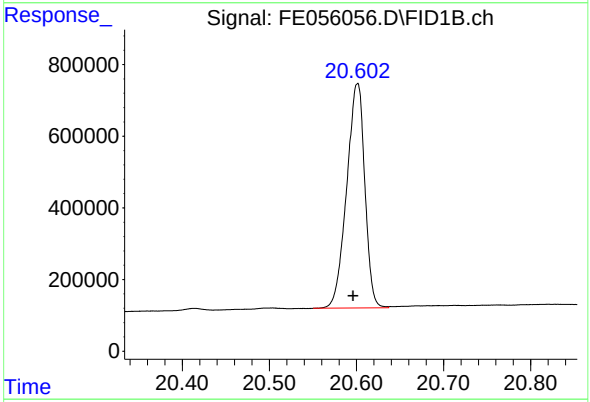
R.T.: 19.073 min
Delta R.T.: 0.003 min
Response: 8500117
Conc: 56.97 ug/ml



#19 n-Tetratriacontane (C34)

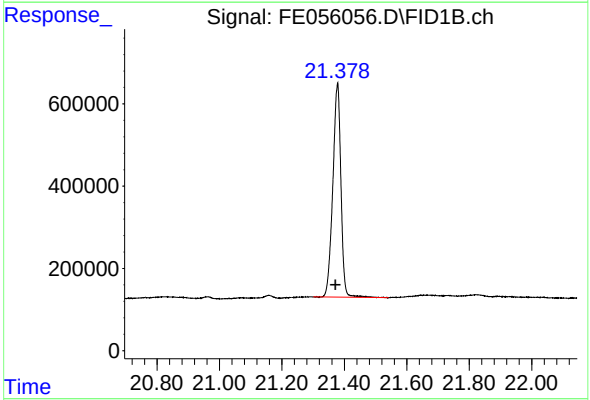
R.T.: 19.859 min
Delta R.T.: 0.004 min
Response: 8822187
Conc: 62.37 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MS



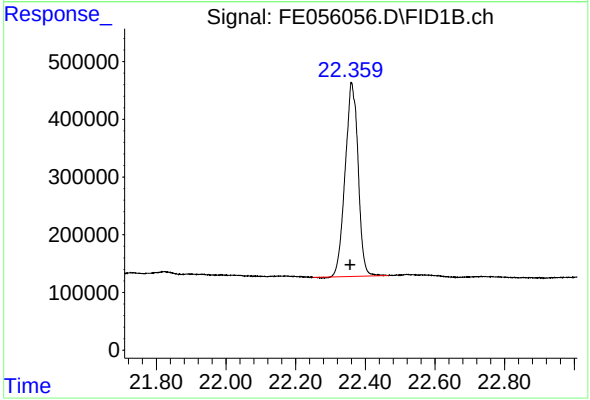
#20 n-Hexatriacontane (C36)

R.T.: 20.601 min
Delta R.T.: 0.005 min
Response: 9062793
Conc: 70.60 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.378 min
Delta R.T.: 0.006 min
Response: 9363961
Conc: 71.29 ug/ml



#22 n-Tetracontane (C40)

R.T.: 22.361 min
Delta R.T.: 0.004 min
Response: 8664314
Conc: 72.83 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056056.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 20:27
Sample : Q3179-02MS
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.841	2.804	2.878	BV	63326	1045333	9.02%	0.516%
2	2.891	2.878	2.936	VV	1781	22825	0.20%	0.011%
3	2.956	2.936	2.984	VV	1044	12552	0.11%	0.006%
4	2.997	2.984	3.014	VV	124	1274	0.01%	0.001%
5	3.054	3.014	3.084	PV	279	3266	0.03%	0.002%
6	3.111	3.084	3.165	PV	51427	515116	4.44%	0.254%
7	3.198	3.165	3.254	VV	349	8252	0.07%	0.004%
8	3.289	3.254	3.316	VV	248	4308	0.04%	0.002%
9	3.333	3.316	3.348	VV	82	941	0.01%	0.000%
10	3.352	3.348	3.379	VV	68	852	0.01%	0.000%
11	3.417	3.379	3.518	VV	576537	5793382	49.98%	2.860%
12	3.535	3.518	3.549	VV	428	5954	0.05%	0.003%
13	3.564	3.549	3.615	VV	481	10924	0.09%	0.005%
14	3.629	3.615	3.648	VV	382	4760	0.04%	0.002%
15	3.662	3.648	3.688	VV	366	5772	0.05%	0.003%
16	3.704	3.688	3.724	VV	222	3807	0.03%	0.002%
17	3.734	3.724	3.748	VV	407	4881	0.04%	0.002%
18	3.754	3.748	3.778	VV	455	4148	0.04%	0.002%
19	3.792	3.778	3.841	VV	475	9309	0.08%	0.005%
20	3.862	3.841	3.886	PV	207	3155	0.03%	0.002%
21	3.909	3.886	3.927	VV	139	1881	0.02%	0.001%
22	3.945	3.927	3.984	VV	109	1397	0.01%	0.001%
23	4.009	3.984	4.055	VV	330	5844	0.05%	0.003%
24	4.065	4.055	4.083	VV	124	1094	0.01%	0.001%
25	4.108	4.083	4.168	VV	296	6653	0.06%	0.003%
26	4.179	4.168	4.184	PV	90	558	0.00%	0.000%
27	4.214	4.184	4.230	VV	614	7325	0.06%	0.004%
28	4.247	4.230	4.275	VV	871	9966	0.09%	0.005%
29	4.285	4.275	4.304	VV	157	1498	0.01%	0.001%
30	4.323	4.304	4.348	VV	364	4547	0.04%	0.002%
31	4.355	4.348	4.364	VV	87	714	0.01%	0.000%
32	4.417	4.364	4.441	VV	753	18160	0.16%	0.009%
33	4.451	4.441	4.464	VV	190	2077	0.02%	0.001%
34	4.481	4.464	4.503	VV	256	4285	0.04%	0.002%
35	4.585	4.503	4.607	VV	733	16918	0.15%	0.008%
36	4.618	4.607	4.638	VV	341	4359	0.04%	0.002%

37	4.675	4.638	4.700	VV	725396	7156232	61.74%	3.533%
38	4.717	4.700	4.769	VV	53397	579840	5.00%	0.286%
39	4.788	4.769	4.816	VV	2640	37454	0.32%	0.018%
40	4.836	4.816	4.851	VV	2408	29272	0.25%	0.014%
41	4.864	4.851	4.909	VV	1593	31017	0.27%	0.015%
42	4.925	4.909	4.941	VV	1068	13714	0.12%	0.007%
43	4.959	4.941	4.977	VV	1942	22394	0.19%	0.011%
44	4.990	4.977	5.026	VV	737	15756	0.14%	0.008%
45	5.042	5.026	5.051	VV	586	7506	0.06%	0.004%
46	5.064	5.051	5.077	VV	667	8711	0.08%	0.004%
47	5.096	5.077	5.122	VV	796	15219	0.13%	0.008%
48	5.150	5.122	5.241	VV	485	23760	0.20%	0.012%
49	5.259	5.241	5.274	VV	297	4543	0.04%	0.002%
50	5.290	5.274	5.305	VV	537	7646	0.07%	0.004%
51	5.319	5.305	5.331	VV	653	7604	0.07%	0.004%
52	5.349	5.331	5.357	VV	618	8703	0.08%	0.004%
53	5.377	5.357	5.411	VV	4319	53949	0.47%	0.027%
54	5.438	5.411	5.461	VV	1491	19968	0.17%	0.010%
55	5.488	5.461	5.519	VV	907	17114	0.15%	0.008%
56	5.564	5.519	5.576	VV	651	12625	0.11%	0.006%
57	5.584	5.576	5.596	VV	507	5811	0.05%	0.003%
58	5.612	5.596	5.658	VV	536	13864	0.12%	0.007%
59	5.698	5.658	5.738	VV	794	25066	0.22%	0.012%
60	5.753	5.738	5.767	VV	666	9709	0.08%	0.005%
61	5.777	5.767	5.794	VV	586	7232	0.06%	0.004%
62	5.814	5.794	5.836	VV	3420	39929	0.34%	0.020%
63	5.857	5.836	5.878	VV	1734	21497	0.19%	0.011%
64	5.917	5.878	5.931	VV	599	11266	0.10%	0.006%
65	5.962	5.931	5.973	VV	634	11206	0.10%	0.006%
66	5.988	5.973	6.029	VV	681	17062	0.15%	0.008%
67	6.039	6.029	6.055	VV	247	3168	0.03%	0.002%
68	6.078	6.055	6.090	VV	308	4545	0.04%	0.002%
69	6.109	6.090	6.154	VV	466	11480	0.10%	0.006%
70	6.186	6.154	6.208	VV	282	5625	0.05%	0.003%
71	6.210	6.208	6.228	VV	237	1665	0.01%	0.001%
72	6.246	6.228	6.268	VV	136	2772	0.02%	0.001%
73	6.294	6.268	6.318	PV	470	5994	0.05%	0.003%
74	6.342	6.318	6.358	VV	313	5166	0.04%	0.003%
75	6.394	6.358	6.433	VV	29569	325304	2.81%	0.161%
76	6.444	6.433	6.474	VV	1245	23466	0.20%	0.012%
77	6.491	6.474	6.519	VV	1716	26044	0.22%	0.013%
78	6.555	6.519	6.581	VV	1407	25392	0.22%	0.013%
79	6.632	6.581	6.709	VV	758	38761	0.33%	0.019%
80	6.732	6.709	6.753	VV	628	11731	0.10%	0.006%
81	6.779	6.753	6.810	VV	418	11403	0.10%	0.006%
82	6.850	6.810	6.917	VV	859411	8622647	74.39%	4.257%
83	6.933	6.917	6.952	VV	1694	29512	0.25%	0.015%
84	6.970	6.952	6.988	VV	1373	23183	0.20%	0.011%
85	7.001	6.988	7.022	VV	2354	31588	0.27%	0.016%
86	7.033	7.022	7.057	VV	1008	17012	0.15%	0.008%
87	7.075	7.057	7.112	VV	1373	23167	0.20%	0.011%
88	7.144	7.112	7.163	VV	910	17302	0.15%	0.009%
89	7.177	7.163	7.207	VV	470	9015	0.08%	0.004%

90	7.222	7.207	7.240	VV	418	5485	0.05%	0.003%
91	7.254	7.240	7.278	VV	313	5276	0.05%	0.003%
92	7.302	7.278	7.337	VV	1217	20923	0.18%	0.010%
93	7.359	7.337	7.374	VV	1345	18313	0.16%	0.009%
94	7.426	7.374	7.455	VV	2031	55379	0.48%	0.027%
95	7.493	7.455	7.579	VV	15892	213886	1.85%	0.106%
96	7.597	7.579	7.620	VV	657	10834	0.09%	0.005%
97	7.653	7.620	7.681	VV	4540	54799	0.47%	0.027%
98	7.731	7.681	7.750	VV	797	20362	0.18%	0.010%
99	7.764	7.750	7.774	VV	749	8274	0.07%	0.004%
100	7.796	7.774	7.820	VV	3861	46957	0.41%	0.023%
101	7.834	7.820	7.844	VV	405	4835	0.04%	0.002%
102	7.864	7.844	7.878	VV	872	11950	0.10%	0.006%
103	7.890	7.878	7.934	VV	763	10166	0.09%	0.005%
104	7.961	7.934	7.998	VV	417	6150	0.05%	0.003%
105	8.014	7.998	8.041	PV	230	3163	0.03%	0.002%
106	8.064	8.041	8.083	VV	1653	18393	0.16%	0.009%
107	8.125	8.083	8.191	VV	568	21928	0.19%	0.011%
108	8.231	8.191	8.274	VV	645	16782	0.14%	0.008%
109	8.286	8.274	8.309	VV	314	5045	0.04%	0.002%
110	8.330	8.309	8.348	VV	469	6026	0.05%	0.003%
111	8.374	8.348	8.401	VV	4411	48056	0.41%	0.024%
112	8.431	8.401	8.454	VV	3893	43000	0.37%	0.021%
113	8.465	8.454	8.499	VV	452	7461	0.06%	0.004%
114	8.542	8.499	8.556	VV	795	13343	0.12%	0.007%
115	8.589	8.556	8.628	VV	2283	43270	0.37%	0.021%
116	8.642	8.628	8.650	VV	644	7356	0.06%	0.004%
117	8.687	8.650	8.759	VV	910132	9533849	82.25%	4.707%
118	8.802	8.759	8.858	VV	3168	86001	0.74%	0.042%
119	8.876	8.858	8.900	VV	1174	21295	0.18%	0.011%
120	8.917	8.900	8.960	VV	1630	20681	0.18%	0.010%
121	9.004	8.960	9.081	VV	54278	673264	5.81%	0.332%
122	9.102	9.081	9.124	VV	8757	107500	0.93%	0.053%
123	9.157	9.124	9.207	VV	2868	102035	0.88%	0.050%
124	9.225	9.207	9.269	VV	2115	49715	0.43%	0.025%
125	9.290	9.269	9.320	VV	992	16296	0.14%	0.008%
126	9.343	9.320	9.371	VV	759	13118	0.11%	0.006%
127	9.415	9.371	9.434	VV	2875	54940	0.47%	0.027%
128	9.448	9.434	9.488	VV	1973	42515	0.37%	0.021%
129	9.528	9.488	9.582	VV	4630	112805	0.97%	0.056%
130	9.601	9.582	9.626	VV	1118	15082	0.13%	0.007%
131	9.651	9.626	9.678	VV	743	11112	0.10%	0.005%
132	9.700	9.678	9.717	VV	506	8089	0.07%	0.004%
133	9.734	9.717	9.744	VV	551	7159	0.06%	0.004%
134	9.753	9.744	9.765	VV	509	5490	0.05%	0.003%
135	9.771	9.765	9.784	VV	448	4499	0.04%	0.002%
136	9.816	9.784	9.838	VV	1267	24042	0.21%	0.012%
137	9.888	9.838	9.918	VV	2983	53053	0.46%	0.026%
138	9.935	9.918	9.948	VV	1136	13283	0.11%	0.007%
139	9.975	9.948	10.001	VV	1201	25202	0.22%	0.012%
140	10.026	10.001	10.052	VV	1364	26592	0.23%	0.013%
141	10.075	10.052	10.119	VV	3972	49893	0.43%	0.025%

142	10.151	10.119	10.177	VV	658	14061	0.12%	0.007%
143	10.217	10.177	10.260	VV	2346	42400	0.37%	0.021%
144	10.301	10.260	10.355	VV	945742	10491213	90.51%	5.180%
145	10.365	10.355	10.425	VV	1566	43777	0.38%	0.022%
146	10.445	10.425	10.494	VV	656	16836	0.15%	0.008%
147	10.511	10.494	10.520	VV	106	943	0.01%	0.000%
148	10.546	10.520	10.558	PV	257	3868	0.03%	0.002%
149	10.577	10.558	10.592	VV	511	6776	0.06%	0.003%
150	10.621	10.592	10.658	VV	811	20804	0.18%	0.010%
151	10.692	10.658	10.711	VV	1250	24242	0.21%	0.012%
152	10.738	10.711	10.820	VV	2571	74467	0.64%	0.037%
153	10.849	10.820	10.868	VV	879	16837	0.15%	0.008%
154	10.901	10.868	10.914	VV	1016	19500	0.17%	0.010%
155	10.940	10.914	10.952	VV	1060	20737	0.18%	0.010%
156	10.972	10.952	11.003	VV	1312	31923	0.28%	0.016%
157	11.039	11.003	11.075	VV	2268	51080	0.44%	0.025%
158	11.096	11.075	11.114	VV	1078	17712	0.15%	0.009%
159	11.126	11.114	11.137	VV	955	11109	0.10%	0.005%
160	11.169	11.137	11.219	VV	2482	53920	0.47%	0.027%
161	11.235	11.219	11.244	VV	679	7839	0.07%	0.004%
162	11.259	11.244	11.288	VV	707	13945	0.12%	0.007%
163	11.325	11.288	11.340	VV	587	14305	0.12%	0.007%
164	11.362	11.340	11.389	VV	924	19584	0.17%	0.010%
165	11.409	11.389	11.416	VV	1163	14081	0.12%	0.007%
166	11.438	11.416	11.454	VV	3231	48068	0.41%	0.024%
167	11.468	11.454	11.520	VV	2194	46387	0.40%	0.023%
168	11.549	11.520	11.589	VV	2583	36755	0.32%	0.018%
169	11.609	11.589	11.644	VV	281	5745	0.05%	0.003%
170	11.676	11.644	11.708	VV	6531	83843	0.72%	0.041%
171	11.750	11.708	11.824	VV	931142	10870752	93.78%	5.367%
172	11.841	11.824	11.873	VV	1368	22140	0.19%	0.011%
173	11.887	11.873	11.923	VV	265	5564	0.05%	0.003%
174	11.978	11.923	12.001	PV	306	6226	0.05%	0.003%
175	12.070	12.001	12.081	VV	620	18492	0.16%	0.009%
176	12.135	12.081	12.158	VV	1500	40137	0.35%	0.020%
177	12.165	12.158	12.188	VV	1077	14942	0.13%	0.007%
178	12.204	12.188	12.221	VV	1004	15417	0.13%	0.008%
179	12.232	12.221	12.282	VV	1241	17201	0.15%	0.008%
180	12.414	12.282	12.448	VV	2600	75119	0.65%	0.037%
181	12.464	12.448	12.495	VV	847	14983	0.13%	0.007%
182	12.581	12.495	12.604	VV	1866	59159	0.51%	0.029%
183	12.638	12.604	12.654	VV	2082	47573	0.41%	0.023%
184	12.670	12.654	12.736	VV	2305	66609	0.57%	0.033%
185	12.786	12.736	12.816	VV	1996	46259	0.40%	0.023%
186	12.829	12.816	12.837	VV	722	8465	0.07%	0.004%
187	12.884	12.837	12.897	VV	3288	60781	0.52%	0.030%
188	12.916	12.897	12.963	VV	5030	73189	0.63%	0.036%
189	13.000	12.963	13.024	VV	4575	60881	0.53%	0.030%
190	13.066	13.024	13.168	VV	918989	10967766	94.62%	5.415%
191	13.178	13.168	13.248	VV	746	12865	0.11%	0.006%
192	13.327	13.248	13.368	PV	854	21280	0.18%	0.011%
193	13.417	13.368	13.437	VV	1507	27084	0.23%	0.013%
194	13.466	13.437	13.478	VV	6563	87831	0.76%	0.043%

195	13.512	13.478	13.598	VV	701591	8300383	71.61%	4.098%
196	13.619	13.598	13.638	VV	1086	19620	0.17%	0.010%
197	13.680	13.638	13.778	VV	846131	10243321	88.37%	5.058%
198	13.793	13.778	13.852	VV	985	24170	0.21%	0.012%
199	13.877	13.852	13.917	VV	837	20923	0.18%	0.010%
200	13.942	13.917	13.993	VV	941	27722	0.24%	0.014%
201	14.019	13.993	14.035	VV	1051	14665	0.13%	0.007%
202	14.054	14.035	14.083	VV	1357	20000	0.17%	0.010%
203	14.106	14.083	14.153	VV	1994	35587	0.31%	0.018%
204	14.211	14.153	14.231	VV	3777	54924	0.47%	0.027%
205	14.267	14.231	14.384	VV	766380	9790967	84.47%	4.834%
206	14.394	14.384	14.408	VV	315	2356	0.02%	0.001%
207	14.421	14.408	14.438	VV	189	1619	0.01%	0.001%
208	14.462	14.438	14.471	VV	541	6827	0.06%	0.003%
209	14.485	14.471	14.551	VV	560	13221	0.11%	0.007%
210	14.558	14.551	14.578	VV	210	2143	0.02%	0.001%
211	14.596	14.578	14.631	PV	382	4896	0.04%	0.002%
212	14.654	14.631	14.664	VV	317	3960	0.03%	0.002%
213	14.699	14.664	14.760	VV	23604	303457	2.62%	0.150%
214	14.777	14.760	14.803	VV	424	8335	0.07%	0.004%
215	14.827	14.803	14.867	VV	1068	14859	0.13%	0.007%
216	14.891	14.867	14.937	VV	457	11286	0.10%	0.006%
217	14.970	14.937	15.003	VV	460	12211	0.11%	0.006%
218	15.029	15.003	15.050	VV	267	4857	0.04%	0.002%
219	15.085	15.050	15.098	VV	351	6042	0.05%	0.003%
220	15.148	15.098	15.201	VV	1642	39494	0.34%	0.019%
221	15.225	15.201	15.262	VV	553	9059	0.08%	0.004%
222	15.324	15.262	15.338	PV	2528	35492	0.31%	0.018%
223	15.374	15.338	15.506	VV	719756	9001356	77.66%	4.444%
224	15.532	15.506	15.551	VV	658	9949	0.09%	0.005%
225	15.562	15.551	15.603	VV	227	4317	0.04%	0.002%
226	15.611	15.603	15.631	VV	142	1151	0.01%	0.001%
227	15.673	15.631	15.714	VV	169	4286	0.04%	0.002%
228	15.778	15.714	15.828	PV	780	23788	0.21%	0.012%
229	15.849	15.828	15.866	VV	572	9882	0.09%	0.005%
230	15.890	15.866	15.931	VV	1912	32180	0.28%	0.016%
231	15.946	15.931	15.956	VV	292	3527	0.03%	0.002%
232	16.033	15.956	16.058	VV	251	11118	0.10%	0.005%
233	16.071	16.058	16.094	VV	250	3156	0.03%	0.002%
234	16.156	16.094	16.180	VV	226	5463	0.05%	0.003%
235	16.212	16.180	16.228	VV	265	5278	0.05%	0.003%
236	16.254	16.228	16.264	VV	379	5891	0.05%	0.003%
237	16.283	16.264	16.304	VV	248	4032	0.03%	0.002%
238	16.396	16.304	16.474	PV	655275	8365909	72.17%	4.131%
239	16.484	16.474	16.494	VV	202	1921	0.02%	0.001%
240	16.521	16.494	16.542	VV	264	4111	0.04%	0.002%
241	16.572	16.542	16.611	VV	335	7604	0.07%	0.004%
242	16.643	16.611	16.650	VV	76	1655	0.01%	0.001%
243	16.686	16.650	16.701	PV	143	1704	0.01%	0.001%
244	16.842	16.701	16.850	PV	407	9181	0.08%	0.005%
245	16.878	16.850	16.931	VV	2347	39732	0.34%	0.020%
246	17.093	16.931	17.098	VV	103	9134	0.08%	0.005%

247	17.229	17.098	17.254	PV	738	8755	0.08%	0.004%
248	17.349	17.254	17.406	VV	614776	8096851	69.85%	3.998%
249	17.430	17.406	17.471	VV	530	12887	0.11%	0.006%
250	17.501	17.471	17.512	VV	220	3885	0.03%	0.002%
251	17.618	17.512	17.628	PV	336	5091	0.04%	0.003%
252	17.797	17.628	17.831	VV	3472	72373	0.62%	0.036%
253	17.885	17.831	17.901	PV	561	7087	0.06%	0.003%
254	18.126	17.901	18.153	VV	7204	140005	1.21%	0.069%
255	18.238	18.153	18.291	VV	604940	8347816	72.02%	4.122%
256	18.320	18.291	18.350	VV	1397	35281	0.30%	0.017%
257	18.399	18.350	18.407	VV	474	17732	0.15%	0.009%
258	18.505	18.407	18.520	VV	411	15878	0.14%	0.008%
259	18.572	18.520	18.590	PV	1069	19147	0.17%	0.009%
260	18.657	18.590	18.688	VV	6454	108581	0.94%	0.054%
261	18.762	18.688	18.780	VV	487	10286	0.09%	0.005%
262	18.925	18.780	18.940	VV	554	8748	0.08%	0.004%
263	19.073	18.940	19.127	VV	600562	8538599	73.66%	4.216%
264	19.200	19.127	19.219	VV	741	38401	0.33%	0.019%
265	19.467	19.219	19.504	VV	11263	314449	2.71%	0.155%
266	19.719	19.504	19.735	VV	5173	538662	4.65%	0.266%
267	19.859	19.735	19.904	VV	624264	9388286	81.00%	4.635%
268	19.915	19.904	19.921	VV	7415	73721	0.64%	0.036%
269	19.962	19.921	19.979	VV	7941	263915	2.28%	0.130%
270	20.099	19.979	20.110	VV	10136	693935	5.99%	0.343%
271	20.146	20.110	20.160	VV	11987	333625	2.88%	0.165%
272	20.229	20.160	20.257	VV	18457	785710	6.78%	0.388%
273	20.414	20.257	20.438	VV	21497	1635819	14.11%	0.808%
274	20.501	20.438	20.524	VV	21286	977458	8.43%	0.483%
275	20.601	20.524	20.638	VV	648481	10419089	89.89%	5.144%
276	20.714	20.638	20.724	VV	25427	1271729	10.97%	0.628%
277	20.763	20.724	20.776	VV	25910	785519	6.78%	0.388%
278	20.822	20.776	20.869	VV	26988	1464653	12.64%	0.723%
279	20.878	20.869	20.931	VV	24991	868895	7.50%	0.429%
280	20.962	20.931	21.005	VV	24948	976241	8.42%	0.482%
281	21.071	21.005	21.099	VV	20879	1130509	9.75%	0.558%
282	21.158	21.099	21.192	VV	25713	1188687	10.26%	0.587%
283	21.292	21.192	21.321	VV	20003	1501831	12.96%	0.742%
284	21.378	21.321	21.541	VV	535914	11591166	100.00%	5.723%
285	21.658	21.541	21.713	VV	18604	1721210	14.85%	0.850%
286	21.731	21.713	21.764	VV	16752	481255	4.15%	0.238%
287	21.822	21.764	21.874	VV	17315	1005873	8.68%	0.497%
288	21.893	21.874	21.921	VV	12134	328254	2.83%	0.162%
289	21.929	21.921	21.978	VV	11162	340664	2.94%	0.168%
290	21.985	21.978	22.009	VV	9251	162444	1.40%	0.080%
291	22.017	22.009	22.117	VV	8313	418059	3.61%	0.206%
292	22.151	22.117	22.274	VV	4828	293454	2.53%	0.145%
293	22.361	22.274	22.478	PV	335431	8734402	75.35%	4.313%

Sum of corrected areas: 202533729

Aliphatic EPH 092425.M Tue Sep 30 06:35:08 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	09/23/25	
Project:	RFP 916		Date Received:	09/23/25	
Client Sample ID:	EME-TS14-01MS		SDG No.:	Q3177	
Lab Sample ID:	Q3179-02		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016477.D	1	09/29/25	09/29/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	222		2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	422		4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	656		8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	948		23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	50.6		40 - 140	101%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	45.7		40 - 140	91%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.4		40 - 140	99%	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:	Q3179-02	Acq On:	29 Sep 2025 20:03
Client Sample ID:	EME-TS14-01MS	Operator:	YP\AJ
Data file:	FF016477.D	Misc:	
Instrument:	FID_F	ALS Vial:	88
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.521	6.397	15944293	111.248	200	ug/ml
Aromatic C12-C16	6.398	9.101	30698570	211.443	300	ug/ml
Aromatic C16-C21	9.102	13.420	47340767	328.361	500	ug/ml
Aromatic C21-C36	13.421	18.876	62055378	474.306	800	ug/ml
Aromatic EPH	4.521	18.876	156039008	1130		ug/ml
2-Bromonaphthalene (SURR)	8.028	8.028	6335476	50.58		ug/ml
2-Flurobiphenyl (SURR)	8.903	8.903	3854619	45.7		ug/ml
ortho-Terphenyl (SURR)	11.972	11.972	7536987	49.44		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016477.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 20:03
Operator : YP\AJ
Sample : Q3179-02MS
Misc :
ALS Vial : 88 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MS

Integration File: autoint1.e
Quant Time: Sep 30 01:06:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
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...	8.028	6335476	50.576 ug/ml
Spiked Amount	50.000		Recovery =	101.15%
6)	S 2-Flurobiphenyl (SURR)	8.903	3854619	45.704 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	91.41%
11)	S ortho-Terphenyl (SURR)	11.972	7536987	49.440 ug/ml
Spiked Amount	50.000		Recovery =	98.88%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.622	6715880	47.643 ug/ml
2)	T Naphthalene (C11.7)	6.298	7633096	52.396 ug/ml
3)	T 2-Methylnaphthalene (...	7.399	7318749	49.713 ug/ml
5)	T Acenaphthylene (C15.06)	8.706	8161379	56.317 ug/ml
7)	T Acenaphthene (C15.5)	9.007	8269983	57.663 ug/ml
8)	T Flouorene (C16.55)	9.796	8371917	57.952 ug/ml
9)	T Phenanthrene (C19.36)	11.204	8265463	56.668 ug/ml
10)	T Anthracene (C19.43)	11.280	8159192	57.029 ug/ml
12)	T Fluoranthene (C21.85)	13.029	8043584	55.075 ug/ml
13)	T Pyrene (C20.8)	13.328	7987278	55.737 ug/ml
14)	T Benzo[a]anthracene (C...	15.212	7505958	55.142 ug/ml
15)	T Chrysene (C27.41)	15.258	8158062	57.190 ug/ml
16)	T benzo[b]fluoranthene ...	16.774	7165472	54.532 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.811	7070755	56.175 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.157	6862551	53.744 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.534	7406464	64.947 ug/ml
20)	T Dibenz[a,h]anthracene...	18.573	6766990	51.834 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.793	6667087	54.143 ug/ml

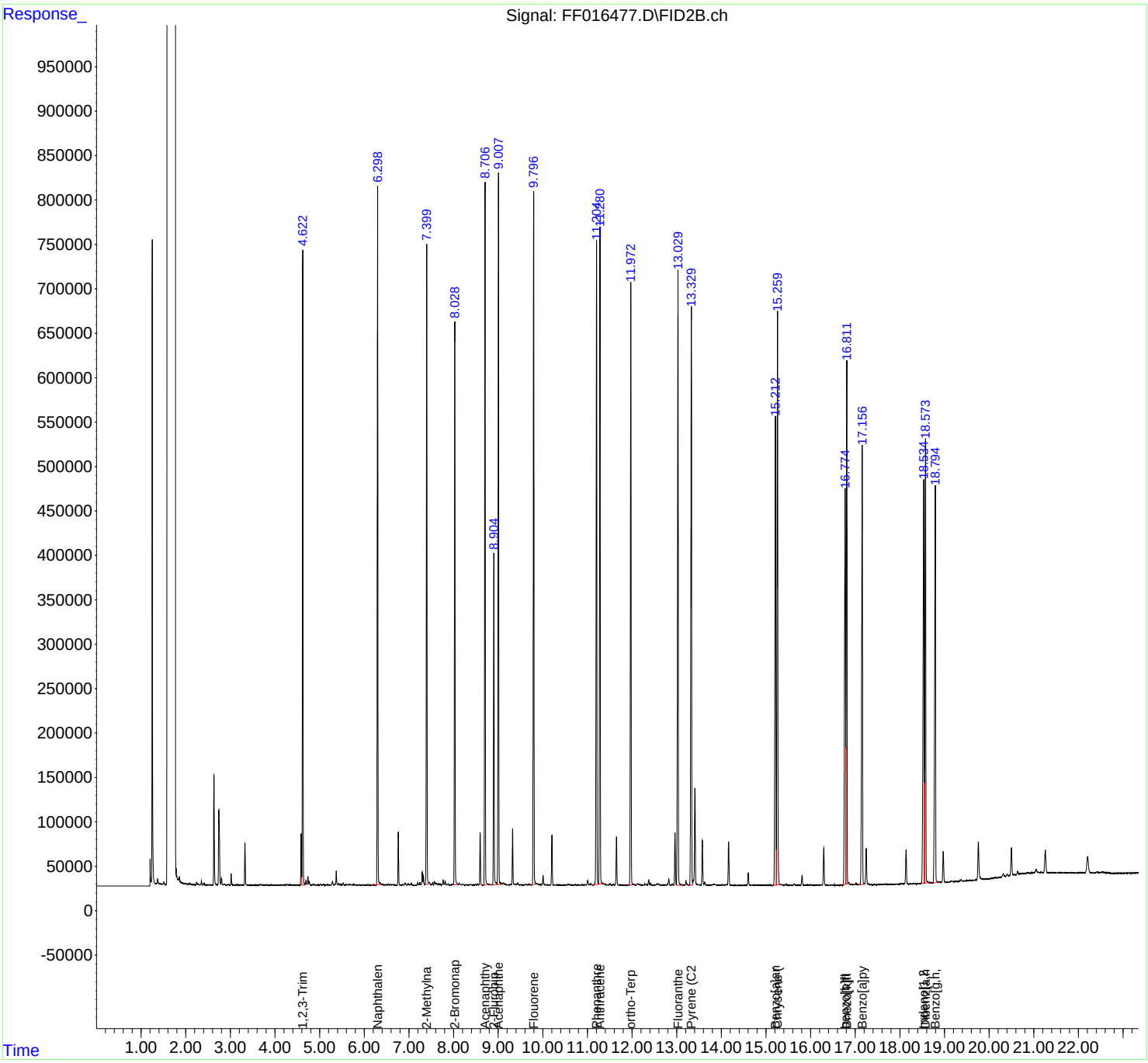
(f)=RT Delta > 1/2 Window (m)=manual int.

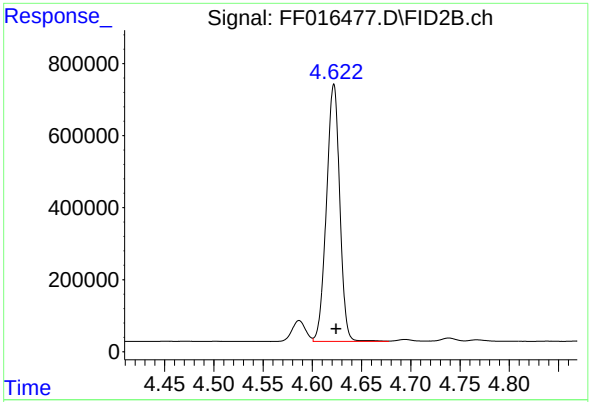
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Data File : FF016477.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 20:03
Operator : YP\AJ
Sample : Q3179-02MS
Misc :
ALS Vial : 88 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MS

Integration File: autoint1.e
Quant Time: Sep 30 01:06:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

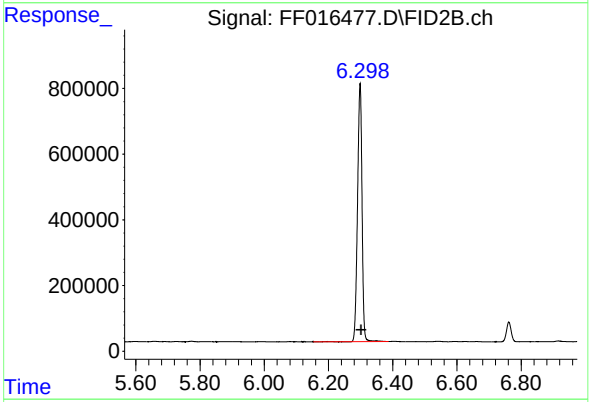




#1 1,2,3-Trimethylbenzene (C10.1)

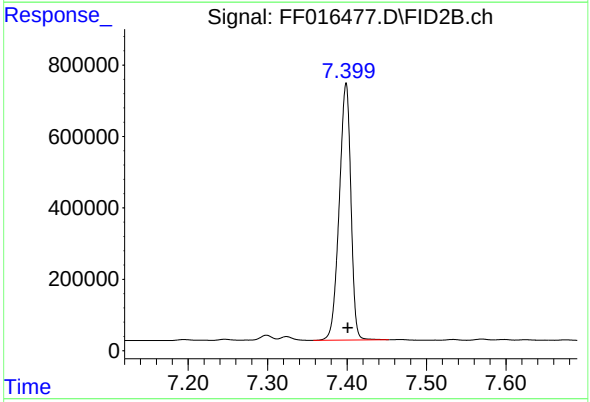
R.T.: 4.622 min
Delta R.T.: -0.002 min
Response: 6715880
Conc: 47.64 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MS



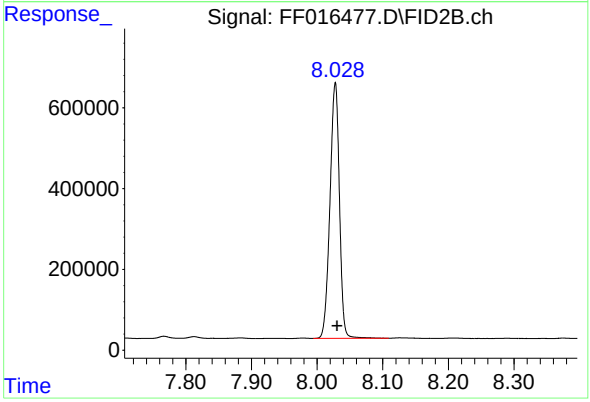
#2 Naphthalene (C11.7)

R.T.: 6.298 min
Delta R.T.: -0.003 min
Response: 7633096
Conc: 52.40 ug/ml



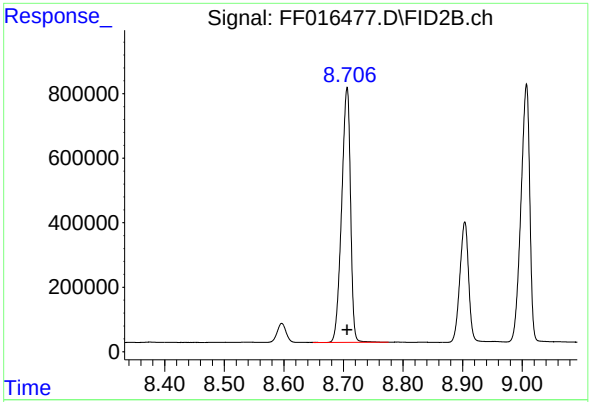
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.399 min
Delta R.T.: -0.003 min
Response: 7318749
Conc: 49.71 ug/ml



#4 2-Bromonaphthalene (SURR)

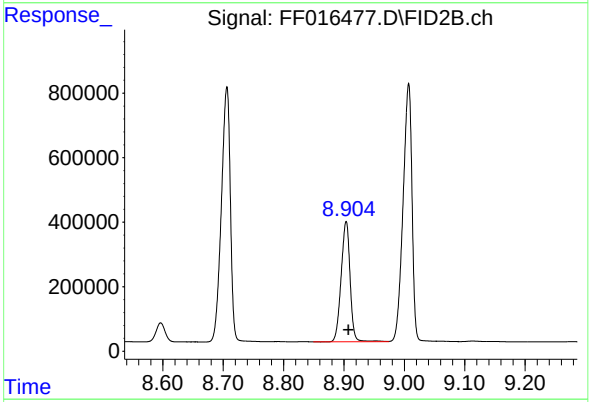
R.T.: 8.028 min
Delta R.T.: -0.003 min
Response: 6335476
Conc: 50.58 ug/ml



#5 Acenaphthylene (C15.06)

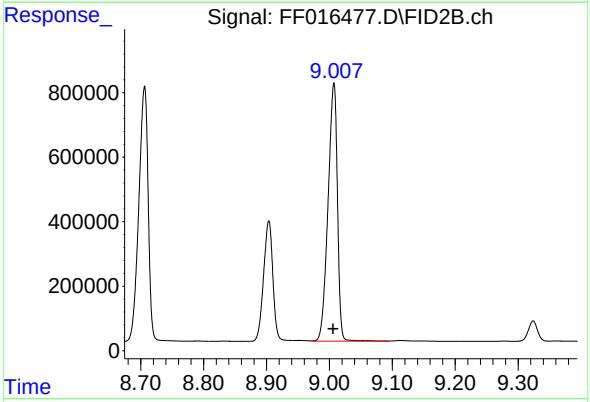
R.T.: 8.706 min
Delta R.T.: 0.000 min
Response: 8161379
Conc: 56.32 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MS



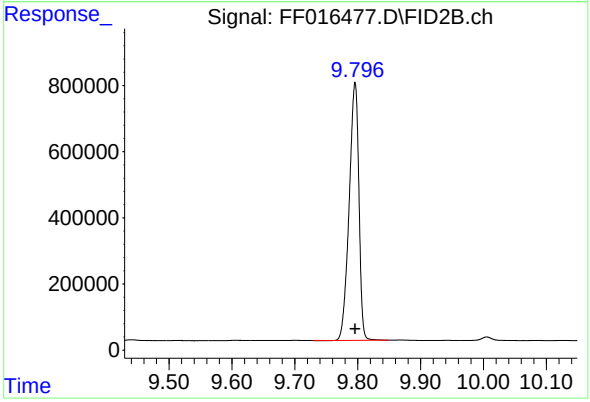
#6 2-Flurobiphenyl (SURR)

R.T.: 8.903 min
Delta R.T.: -0.004 min
Response: 3854619
Conc: 45.70 ug/ml



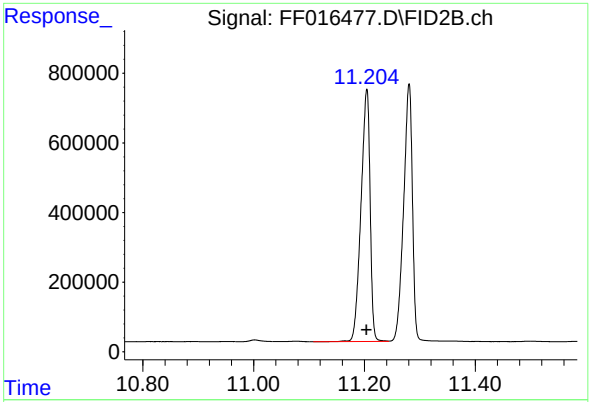
#7 Acenaphthene (C15.5)

R.T.: 9.007 min
Delta R.T.: 0.000 min
Response: 8269983
Conc: 57.66 ug/ml



#8 Flouorene (C16.55)

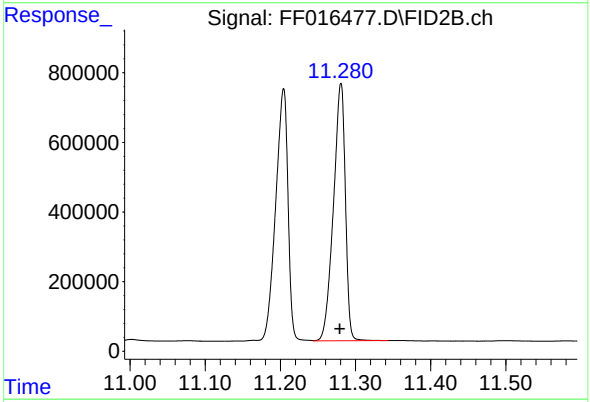
R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 8371917
Conc: 57.95 ug/ml



#9 Phenanthrene (C19.36)

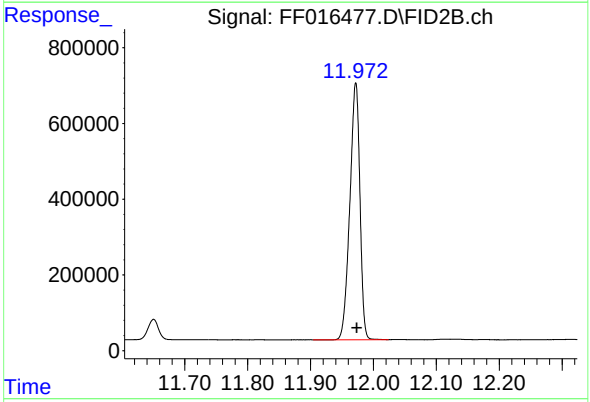
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 8265463
Conc: 56.67 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MS



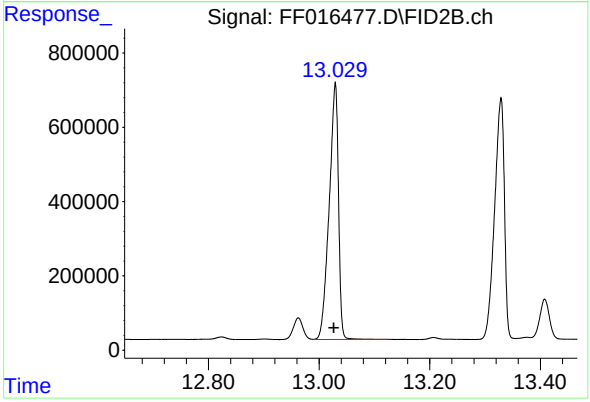
#10 Anthracene (C19.43)

R.T.: 11.280 min
Delta R.T.: 0.001 min
Response: 8159192
Conc: 57.03 ug/ml



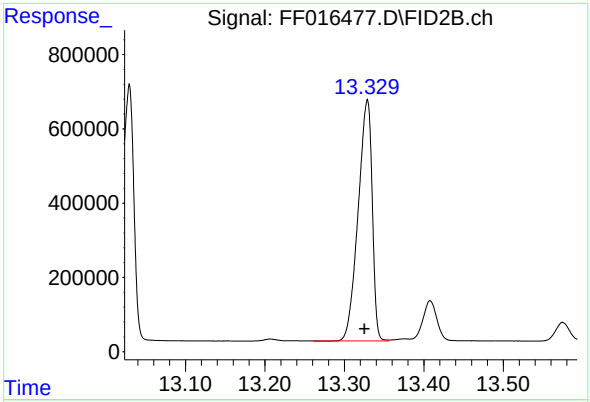
#11 ortho-Terphenyl (SURR)

R.T.: 11.972 min
Delta R.T.: -0.002 min
Response: 7536987
Conc: 49.44 ug/ml



#12 Fluoranthene (C21.85)

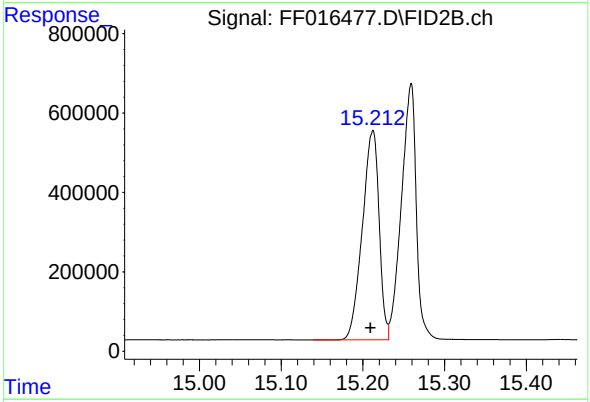
R.T.: 13.029 min
Delta R.T.: 0.002 min
Response: 8043584
Conc: 55.07 ug/ml



#13 Pyrene (C20.8)

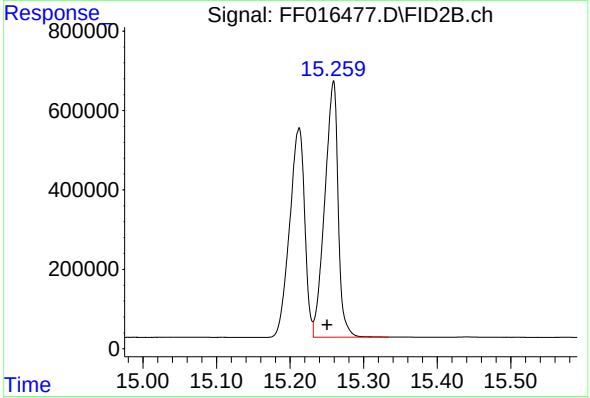
R.T.: 13.328 min
Delta R.T.: 0.003 min
Response: 7987278
Conc: 55.74 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MS



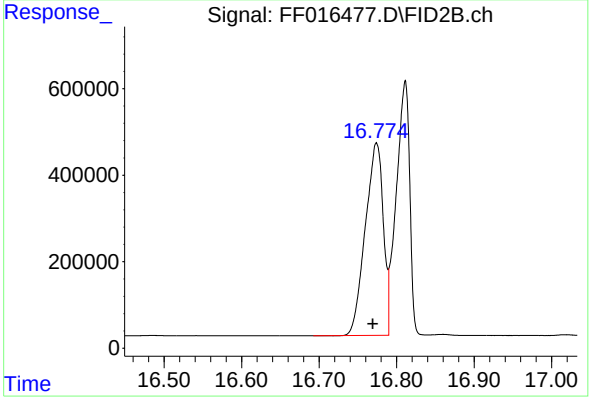
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.212 min
Delta R.T.: 0.003 min
Response: 7505958
Conc: 55.14 ug/ml



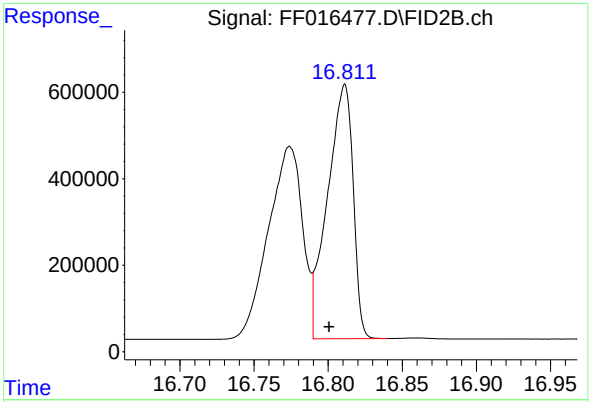
#15 Chrysene (C27.41)

R.T.: 15.258 min
Delta R.T.: 0.008 min
Response: 8158062
Conc: 57.19 ug/ml



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

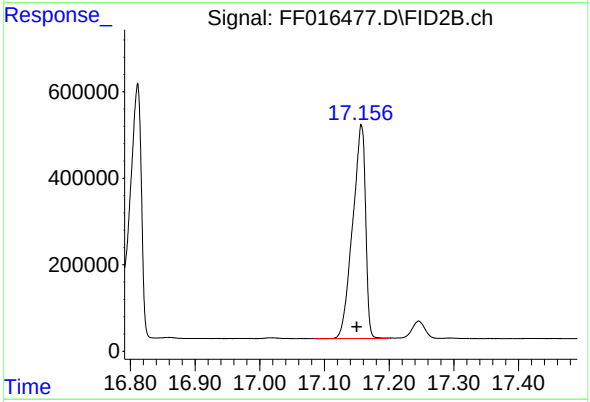
R.T.: 16.774 min
Delta R.T.: 0.005 min
Response: 7165472
Conc: 54.53 ug/ml



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

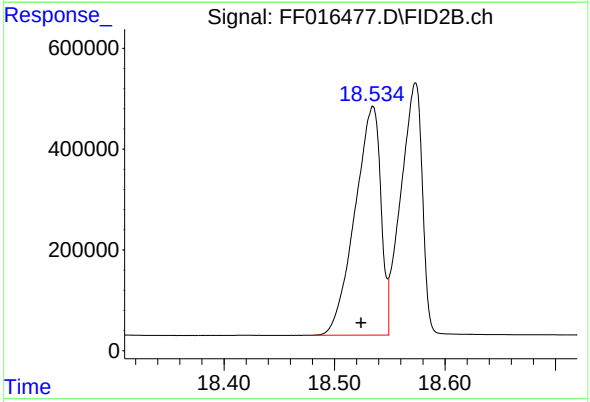
R.T.: 16.811 min
Delta R.T.: 0.010 min
Response: 7070755
Conc: 56.18 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MS



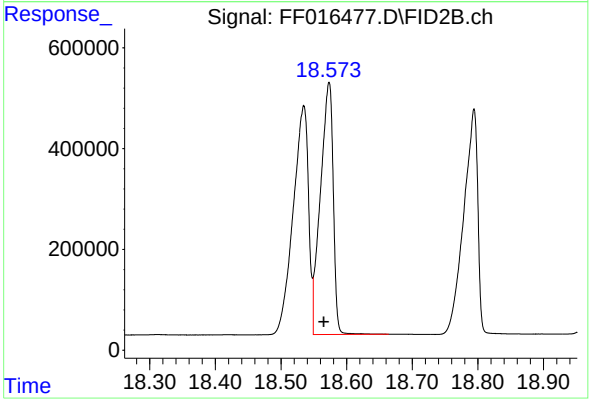
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.157 min
Delta R.T.: 0.007 min
Response: 6862551
Conc: 53.74 ug/ml



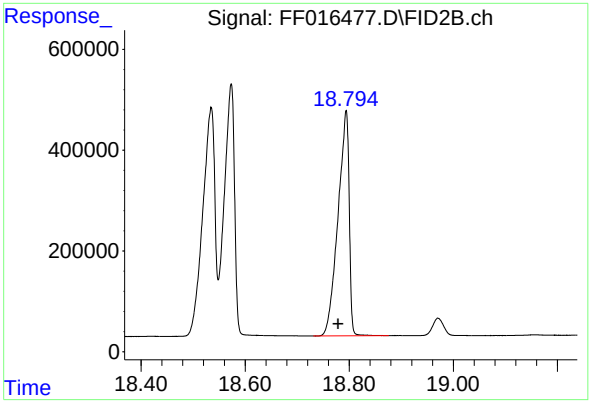
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.534 min
Delta R.T.: 0.010 min
Response: 7406464
Conc: 64.95 ug/ml



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

R.T.: 18.573 min
Delta R.T.: 0.008 min
Response: 6766990
Conc: 51.83 ug/ml



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

R.T.: 18.793 min
Delta R.T.: 0.015 min
Response: 6667087
Conc: 54.14 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MS

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016477.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 20:03
Sample : Q3179-02MS
Misc :
ALS Vial : 88 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.450	4.434	4.461	PV	375	3543	0.04%	0.002%
2	4.470	4.461	4.485	VV	404	4280	0.05%	0.003%
3	4.501	4.485	4.522	VV	399	5359	0.06%	0.003%
4	4.526	4.522	4.547	VV	199	1593	0.02%	0.001%
5	4.587	4.557	4.600	VV	58192	551272	6.52%	0.324%
6	4.622	4.600	4.654	VV	716174	6702812	79.24%	3.942%
7	4.658	4.654	4.677	VV	2476	25438	0.30%	0.015%
8	4.694	4.677	4.716	VV	5643	65064	0.77%	0.038%
9	4.739	4.716	4.755	VV	9690	106263	1.26%	0.062%
10	4.767	4.755	4.797	VV	4599	57099	0.68%	0.034%
11	4.805	4.797	4.824	VV	654	7637	0.09%	0.004%
12	4.839	4.824	4.855	VV	939	11625	0.14%	0.007%
13	4.871	4.855	4.890	VV	1344	15794	0.19%	0.009%
14	4.907	4.890	4.927	VV	460	7324	0.09%	0.004%
15	4.948	4.927	4.959	VV	559	8431	0.10%	0.005%
16	4.973	4.959	4.991	VV	537	8207	0.10%	0.005%
17	5.005	4.991	5.011	VV	687	6617	0.08%	0.004%
18	5.026	5.011	5.060	VV	1425	21011	0.25%	0.012%
19	5.082	5.060	5.135	VV	1455	21424	0.25%	0.013%
20	5.163	5.135	5.192	VV	1414	22483	0.27%	0.013%
21	5.204	5.192	5.218	VV	586	7424	0.09%	0.004%
22	5.229	5.218	5.244	VV	531	6180	0.07%	0.004%
23	5.290	5.244	5.327	VV	4523	80290	0.95%	0.047%
24	5.351	5.327	5.355	VV	1767	18432	0.22%	0.011%
25	5.373	5.355	5.410	VV	16088	170817	2.02%	0.100%

rteres

26	5.427	5.410	5.455	VV	2451	33163	0.39%	0.020%
27	5.476	5.455	5.486	VV	813	14224	0.17%	0.008%
28	5.493	5.486	5.506	VV	712	7865	0.09%	0.005%
29	5.528	5.506	5.576	VV	2851	44910	0.53%	0.026%
30	5.598	5.576	5.641	VV	1175	26485	0.31%	0.016%
31	5.658	5.641	5.677	VV	1731	23591	0.28%	0.014%
32	5.689	5.677	5.708	VV	979	12717	0.15%	0.007%
33	5.728	5.708	5.752	VV	1104	16063	0.19%	0.009%
34	5.774	5.752	5.795	VV	1866	23857	0.28%	0.014%
35	5.808	5.795	5.816	VV	483	5533	0.07%	0.003%
36	5.829	5.816	5.847	VV	594	8979	0.11%	0.005%
37	5.876	5.847	5.888	VV	697	12532	0.15%	0.007%
38	5.893	5.888	5.910	VV	606	7096	0.08%	0.004%
39	5.917	5.910	5.944	VV	488	7696	0.09%	0.005%
40	5.947	5.944	5.967	VV	343	3737	0.04%	0.002%
41	5.996	5.967	6.029	VV	598	13840	0.16%	0.008%
42	6.040	6.029	6.064	VV	367	6192	0.07%	0.004%
43	6.080	6.064	6.095	VV	865	10510	0.12%	0.006%
44	6.100	6.095	6.110	VV	439	2984	0.04%	0.002%
45	6.120	6.110	6.125	VV	388	2796	0.03%	0.002%
46	6.132	6.125	6.146	VV	359	3966	0.05%	0.002%
47	6.151	6.146	6.169	VV	361	3911	0.05%	0.002%
48	6.195	6.169	6.229	VV	862	17805	0.21%	0.010%
49	6.241	6.229	6.257	VV	381	4946	0.06%	0.003%
50	6.299	6.257	6.388	VV	788585	7705658	91.09%	4.532%
51	6.406	6.388	6.436	VV	1778	34777	0.41%	0.020%
52	6.439	6.436	6.456	VV	790	8425	0.10%	0.005%
53	6.472	6.456	6.505	VV	887	19956	0.24%	0.012%
54	6.541	6.505	6.574	VV	1750	37154	0.44%	0.022%
55	6.593	6.574	6.611	VV	1221	17778	0.21%	0.010%
56	6.625	6.611	6.641	VV	1217	14709	0.17%	0.009%
57	6.661	6.641	6.683	VV	980	17327	0.20%	0.010%
58	6.694	6.683	6.706	VV	303	3934	0.05%	0.002%
59	6.721	6.706	6.734	VV	419	5703	0.07%	0.003%
60	6.762	6.734	6.795	VV	60332	618931	7.32%	0.364%
61	6.819	6.795	6.836	VV	781	14344	0.17%	0.008%
62	6.851	6.836	6.871	VV	935	13971	0.17%	0.008%
63	6.883	6.871	6.894	VV	758	8840	0.10%	0.005%
64	6.916	6.894	6.962	VV	2876	52408	0.62%	0.031%
65	6.981	6.962	7.005	VV	1817	28439	0.34%	0.017%
66	7.018	7.005	7.035	VV	1393	17785	0.21%	0.010%
67	7.054	7.035	7.079	VV	2868	35553	0.42%	0.021%
68	7.081	7.079	7.120	VV	440	4999	0.06%	0.003%
69	7.141	7.120	7.154	PV	243	2362	0.03%	0.001%

rteres

70	7.162	7.154	7.174	VV	148	1317	0.02%	0.001%
71	7.195	7.174	7.211	VV	2830	32334	0.38%	0.019%
72	7.217	7.211	7.232	VV	1074	11705	0.14%	0.007%
73	7.246	7.232	7.264	VV	3690	41239	0.49%	0.024%
74	7.299	7.264	7.312	VV	15158	170937	2.02%	0.101%
75	7.324	7.312	7.357	VV	11224	126247	1.49%	0.074%
76	7.399	7.357	7.457	VV	722918	7412182	87.62%	4.359%
77	7.467	7.457	7.497	VV	2876	45001	0.53%	0.026%
78	7.511	7.497	7.518	VV	1255	14305	0.17%	0.008%
79	7.534	7.518	7.550	VV	3158	36861	0.44%	0.022%
80	7.570	7.550	7.584	VV	4141	51225	0.61%	0.030%
81	7.598	7.584	7.611	VV	3028	37799	0.45%	0.022%
82	7.624	7.611	7.641	VV	2460	31191	0.37%	0.018%
83	7.650	7.641	7.661	VV	1240	13281	0.16%	0.008%
84	7.675	7.661	7.689	VV	2062	23727	0.28%	0.014%
85	7.708	7.689	7.726	VV	1627	24499	0.29%	0.014%
86	7.767	7.726	7.792	VV	6132	86066	1.02%	0.051%
87	7.813	7.792	7.852	VV	5126	75392	0.89%	0.044%
88	7.883	7.852	7.911	VV	2058	37679	0.45%	0.022%
89	7.940	7.911	7.959	VV	830	19040	0.23%	0.011%
90	7.979	7.959	7.994	VV	1627	21668	0.26%	0.013%
91	8.028	7.994	8.110	VV	633193	6403935	75.70%	3.766%
92	8.126	8.110	8.164	VV	2267	50847	0.60%	0.030%
93	8.172	8.164	8.187	VV	978	12257	0.14%	0.007%
94	8.209	8.187	8.239	VV	1698	34461	0.41%	0.020%
95	8.246	8.239	8.256	VV	617	5774	0.07%	0.003%
96	8.259	8.256	8.264	VV	596	2391	0.03%	0.001%
97	8.289	8.264	8.334	VV	1095	28506	0.34%	0.017%
98	8.344	8.334	8.355	VV	638	6692	0.08%	0.004%
99	8.375	8.355	8.407	VV	1524	26660	0.32%	0.016%
100	8.413	8.407	8.431	VV	679	7775	0.09%	0.005%
101	8.436	8.431	8.446	VV	498	4378	0.05%	0.003%
102	8.452	8.446	8.466	VV	573	5713	0.07%	0.003%
103	8.500	8.466	8.518	VV	910	22341	0.26%	0.013%
104	8.537	8.518	8.564	VV	1246	25091	0.30%	0.015%
105	8.597	8.564	8.652	VV	59685	638464	7.55%	0.375%
106	8.655	8.652	8.668	VV	548	3889	0.05%	0.002%
107	8.706	8.668	8.775	VV	790035	8219225	97.16%	4.834%
108	8.792	8.775	8.816	VV	1600	29262	0.35%	0.017%
109	8.832	8.816	8.867	VV	1265	26096	0.31%	0.015%
110	8.904	8.867	8.944	VV	374736	3864122	45.68%	2.273%
111	8.953	8.944	8.974	VV	3475	53022	0.63%	0.031%
112	9.007	8.974	9.054	VV	803043	8313232	98.28%	4.889%

rteres

113	9.062	9.054	9.093	VV	2588	47282	0.56%	0.028%
114	9.113	9.093	9.147	VV	3124	69419	0.82%	0.041%
115	9.150	9.147	9.181	VV	1631	23389	0.28%	0.014%
116	9.204	9.181	9.239	VV	863	25346	0.30%	0.015%
117	9.254	9.239	9.262	VV	884	10377	0.12%	0.006%
118	9.279	9.262	9.295	VV	1342	19548	0.23%	0.011%
119	9.324	9.295	9.350	VV	64173	660073	7.80%	0.388%
120	9.361	9.350	9.397	VV	1678	37461	0.44%	0.022%
121	9.402	9.397	9.414	VV	1004	9710	0.11%	0.006%
122	9.440	9.414	9.493	VV	3019	61388	0.73%	0.036%
123	9.514	9.493	9.541	VV	908	16334	0.19%	0.010%
124	9.563	9.541	9.584	VV	608	10685	0.13%	0.006%
125	9.603	9.584	9.633	VV	1356	28282	0.33%	0.017%
126	9.644	9.633	9.660	VV	1037	14816	0.18%	0.009%
127	9.671	9.660	9.687	VV	1020	15196	0.18%	0.009%
128	9.702	9.687	9.747	VV	1347	32844	0.39%	0.019%
129	9.796	9.747	9.852	VV	781314	8459130	100.00%	4.975%
130	9.868	9.852	9.902	VV	2409	52338	0.62%	0.031%
131	9.908	9.902	9.923	VV	1137	12817	0.15%	0.008%
132	9.944	9.923	9.969	VV	1381	29930	0.35%	0.018%
133	10.005	9.969	10.067	VV	11530	170252	2.01%	0.100%
134	10.087	10.067	10.101	VV	817	14434	0.17%	0.008%
135	10.127	10.101	10.159	VV	896	23228	0.27%	0.014%
136	10.204	10.159	10.251	VV	56712	651354	7.70%	0.383%
137	10.256	10.251	10.259	VV	455	2001	0.02%	0.001%
138	10.281	10.259	10.286	VV	678	9348	0.11%	0.005%
139	10.300	10.286	10.338	VV	935	19807	0.23%	0.012%
140	10.374	10.338	10.402	VV	795	19231	0.23%	0.011%
141	10.407	10.402	10.421	VV	450	4261	0.05%	0.003%
142	10.435	10.421	10.461	VV	502	8865	0.10%	0.005%
143	10.481	10.461	10.496	VV	823	11987	0.14%	0.007%
144	10.515	10.496	10.520	VV	699	8860	0.10%	0.005%
145	10.530	10.520	10.549	VV	813	12014	0.14%	0.007%
146	10.567	10.549	10.591	VV	1417	26350	0.31%	0.015%
147	10.598	10.591	10.618	VV	1016	12755	0.15%	0.008%
148	10.634	10.618	10.662	VV	867	15985	0.19%	0.009%
149	10.676	10.662	10.700	VV	592	11003	0.13%	0.006%
150	10.723	10.700	10.746	VV	920	18218	0.22%	0.011%
151	10.761	10.746	10.775	VV	683	9093	0.11%	0.005%
152	10.789	10.775	10.796	VV	645	7082	0.08%	0.004%
153	10.812	10.796	10.820	VV	766	9256	0.11%	0.005%
154	10.827	10.820	10.840	VV	709	8054	0.10%	0.005%
155	10.845	10.840	10.848	VV	697	3195	0.04%	0.002%

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156	10.851	10.848	10.864	VV	690	5572	0.07%	0.003%
157	10.888	10.864	10.910	VV	890	17230	0.20%	0.010%
158	10.917	10.910	10.924	VV	577	4505	0.05%	0.003%
159	10.926	10.924	10.931	VV	593	2109	0.02%	0.001%
160	10.947	10.931	10.977	VV	800	18386	0.22%	0.011%
161	11.002	10.977	11.052	VV	5690	98032	1.16%	0.058%
162	11.076	11.052	11.127	VV	1921	43011	0.51%	0.025%
163	11.204	11.127	11.245	VV	726387	8341426	98.61%	4.906%
164	11.281	11.245	11.345	VV	742556	8268946	97.75%	4.863%
165	11.355	11.345	11.392	VV	2475	54949	0.65%	0.032%
166	11.401	11.392	11.432	VV	1201	22939	0.27%	0.013%
167	11.437	11.432	11.444	VV	710	4877	0.06%	0.003%
168	11.450	11.444	11.466	VV	733	9164	0.11%	0.005%
169	11.495	11.466	11.557	VV	1929	57773	0.68%	0.034%
170	11.580	11.557	11.605	VV	1461	26135	0.31%	0.015%
171	11.651	11.605	11.709	VV	54880	660292	7.81%	0.388%
172	11.722	11.709	11.764	VV	744	18251	0.22%	0.011%
173	11.783	11.764	11.796	VV	495	7697	0.09%	0.005%
174	11.819	11.796	11.857	VV	561	14090	0.17%	0.008%
175	11.879	11.857	11.891	VV	484	8230	0.10%	0.005%
176	11.900	11.891	11.919	VV	506	6088	0.07%	0.004%
177	11.972	11.919	12.024	VV	680375	7576007	89.56%	4.456%
178	12.039	12.024	12.085	VV	1209	29930	0.35%	0.018%
179	12.112	12.085	12.122	VV	1954	29439	0.35%	0.017%
180	12.132	12.122	12.166	VV	1995	35999	0.43%	0.021%
181	12.177	12.166	12.205	VV	1104	17487	0.21%	0.010%
182	12.222	12.205	12.236	VV	616	9183	0.11%	0.005%
183	12.251	12.236	12.267	VV	791	12653	0.15%	0.007%
184	12.315	12.267	12.346	VV	1512	45142	0.53%	0.027%
185	12.373	12.346	12.396	VV	6546	90084	1.06%	0.053%
186	12.412	12.396	12.440	VV	2437	35887	0.42%	0.021%
187	12.456	12.440	12.467	VV	633	8303	0.10%	0.005%
188	12.480	12.467	12.511	VV	751	13912	0.16%	0.008%
189	12.543	12.511	12.556	VV	1383	25073	0.30%	0.015%
190	12.570	12.556	12.637	VV	2425	60075	0.71%	0.035%
191	12.647	12.637	12.682	VV	727	14508	0.17%	0.009%
192	12.699	12.682	12.734	VV	630	17405	0.21%	0.010%
193	12.747	12.734	12.766	VV	739	12097	0.14%	0.007%
194	12.824	12.766	12.851	VV	7224	118957	1.41%	0.070%
195	12.861	12.851	12.866	VV	463	4039	0.05%	0.002%
196	12.869	12.866	12.880	VV	469	3549	0.04%	0.002%
197	12.901	12.880	12.929	VV	1638	24381	0.29%	0.014%
198	12.963	12.929	12.990	VV	58800	708231	8.37%	0.417%
199	13.029	12.990	13.139	VV	691157	8083284	95.56%	4.754%

200	13.142	13.139	13.179	VV	605	12110	0.14%	0.007%
201	13.207	13.179	13.281	VV	5804	98458	1.16%	0.058%
202	13.329	13.281	13.356	VV	651358	8014105	94.74%	4.713%
203	13.376	13.356	13.382	VV	6305	78767	0.93%	0.046%
204	13.408	13.382	13.489	VV	109060	1382291	16.34%	0.813%
205	13.499	13.489	13.532	VV	814	16179	0.19%	0.010%
206	13.535	13.532	13.542	VV	489	2490	0.03%	0.001%
207	13.575	13.542	13.609	VV	50834	636805	7.53%	0.375%
208	13.629	13.609	13.667	VV	3930	61208	0.72%	0.036%
209	13.671	13.667	13.675	VV	477	2208	0.03%	0.001%
210	13.695	13.675	13.729	VV	647	14909	0.18%	0.009%
211	13.774	13.729	13.800	VV	780	23116	0.27%	0.014%
212	13.813	13.800	13.861	VV	1307	39844	0.47%	0.023%
213	13.864	13.861	13.892	VV	1028	13638	0.16%	0.008%
214	13.912	13.892	13.947	VV	709	17498	0.21%	0.010%
215	13.954	13.947	13.976	VV	534	8284	0.10%	0.005%
216	13.980	13.976	13.997	VV	548	5713	0.07%	0.003%
217	14.025	13.997	14.054	VV	1128	22858	0.27%	0.013%
218	14.078	14.054	14.088	VV	446	7933	0.09%	0.005%
219	14.113	14.088	14.133	VV	1422	24308	0.29%	0.014%
220	14.163	14.133	14.214	VV	49082	625448	7.39%	0.368%
221	14.221	14.214	14.244	VV	433	5804	0.07%	0.003%
222	14.248	14.244	14.278	VV	211	2539	0.03%	0.001%
223	14.287	14.278	14.312	VV	192	2391	0.03%	0.001%
224	14.323	14.312	14.359	VV	126	1309	0.02%	0.001%
225	14.394	14.359	14.426	PV	297	6672	0.08%	0.004%
226	14.449	14.431	14.477	VV	226	3697	0.04%	0.002%
227	14.506	14.477	14.543	VV	292	6190	0.07%	0.004%
228	14.555	14.543	14.567	VV	254	2481	0.03%	0.001%
229	14.602	14.567	14.635	VV	14269	187475	2.22%	0.110%
230	14.645	14.635	14.650	VV	482	3818	0.05%	0.002%
231	14.653	14.650	14.706	VV	449	10022	0.12%	0.006%
232	14.730	14.706	14.751	VV	445	7427	0.09%	0.004%
233	14.788	14.758	14.811	VV	555	10937	0.13%	0.006%
234	14.830	14.811	14.849	VV	495	8564	0.10%	0.005%
235	14.863	14.849	14.909	VV	401	11181	0.13%	0.007%
236	14.937	14.909	14.956	VV	481	10072	0.12%	0.006%
237	14.961	14.956	14.969	VV	278	1961	0.02%	0.001%
238	14.990	14.969	15.005	VV	316	5045	0.06%	0.003%
239	15.044	15.005	15.064	VV	537	12762	0.15%	0.008%
240	15.081	15.064	15.095	VV	431	6545	0.08%	0.004%
241	15.106	15.095	15.129	VV	294	3842	0.05%	0.002%
242	15.134	15.129	15.154	VV	133	1130	0.01%	0.001%

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243	15.212	15.154	15.231	PV	528491	7515191	88.84%	4.420%
244	15.259	15.231	15.335	VV	646520	8203659	96.98%	4.825%
245	15.352	15.335	15.404	VV	954	24934	0.29%	0.015%
246	15.407	15.404	15.419	VV	401	3236	0.04%	0.002%
247	15.440	15.419	15.502	VV	1127	26529	0.31%	0.016%
248	15.516	15.502	15.554	VV	265	4945	0.06%	0.003%
249	15.571	15.554	15.594	VV	292	4075	0.05%	0.002%
250	15.633	15.594	15.666	VV	1871	28369	0.34%	0.017%
251	15.681	15.666	15.720	VV	569	10851	0.13%	0.006%
252	15.743	15.720	15.749	VV	260	3600	0.04%	0.002%
253	15.758	15.755	15.766	VV	236	1306	0.02%	0.001%
254	15.808	15.766	15.856	VV	11006	151807	1.79%	0.089%
255	15.865	15.856	15.872	VV	155	1479	0.02%	0.001%
256	15.880	15.872	15.892	VV	233	2331	0.03%	0.001%
257	15.919	15.892	15.931	VV	439	6976	0.08%	0.004%
258	15.934	15.931	15.954	VV	324	3887	0.05%	0.002%
259	15.975	15.954	15.989	VV	534	9049	0.11%	0.005%
260	16.003	15.989	16.029	VV	634	10214	0.12%	0.006%
261	16.039	16.029	16.070	VV	324	6134	0.07%	0.004%
262	16.121	16.070	16.130	VV	354	9420	0.11%	0.006%
263	16.157	16.130	16.204	VV	551	13901	0.16%	0.008%
264	16.221	16.204	16.242	VV	247	4475	0.05%	0.003%
265	16.257	16.242	16.264	VV	548	5742	0.07%	0.003%
266	16.295	16.264	16.336	VV	41702	565281	6.68%	0.332%
267	16.344	16.336	16.381	VV	376	6183	0.07%	0.004%
268	16.404	16.381	16.456	VV	269	5278	0.06%	0.003%
269	16.486	16.456	16.516	VV	792	12619	0.15%	0.007%
270	16.541	16.516	16.574	VV	356	2633	0.03%	0.002%
271	16.587	16.574	16.639	VV	116	1835	0.02%	0.001%
272	16.652	16.639	16.665	PV	191	1726	0.02%	0.001%
273	16.681	16.665	16.694	VV	211	1860	0.02%	0.001%
274	16.714	16.694	16.719	VV	155	1066	0.01%	0.001%
275	16.774	16.719	16.790	PV	446035	7172887	84.79%	4.219%
276	16.811	16.790	16.840	VV	588912	7147144	84.49%	4.203%
277	16.860	16.840	16.901	VV	3144	60809	0.72%	0.036%
278	16.907	16.901	16.949	VV	685	16409	0.19%	0.010%
279	16.955	16.949	16.966	VV	537	5241	0.06%	0.003%
280	16.969	16.966	16.997	VV	589	9706	0.11%	0.006%
281	17.019	16.997	17.057	VV	2271	39500	0.47%	0.023%
282	17.064	17.057	17.069	VV	415	2716	0.03%	0.002%
283	17.074	17.069	17.078	VV	401	2079	0.02%	0.001%
284	17.084	17.078	17.102	VV	446	5279	0.06%	0.003%
285	17.157	17.102	17.199	VV	493106	6893043	81.49%	4.054%

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286	17.246	17.199	17.277	VV	41058	588692	6.96%	0.346%
287	17.295	17.277	17.347	VV	1445	26720	0.32%	0.016%
288	17.356	17.347	17.379	VV	297	3997	0.05%	0.002%
289	17.387	17.379	17.401	VV	189	1888	0.02%	0.001%
290	17.420	17.401	17.431	VV	374	4812	0.06%	0.003%
291	17.435	17.431	17.446	VV	244	1900	0.02%	0.001%
292	17.454	17.446	17.476	VV	227	2751	0.03%	0.002%
293	17.519	17.487	17.529	PV	527	6502	0.08%	0.004%
294	17.534	17.529	17.552	VV	427	4574	0.05%	0.003%
295	17.569	17.552	17.605	VV	412	7900	0.09%	0.005%
296	17.656	17.605	17.679	PV	699	13900	0.16%	0.008%
297	17.698	17.679	17.729	VV	942	14310	0.17%	0.008%
298	17.800	17.729	17.841	VV	375	14301	0.17%	0.008%
299	17.849	17.841	17.859	VV	259	2114	0.02%	0.001%
300	17.906	17.859	17.911	VV	454	8183	0.10%	0.005%
301	17.914	17.911	17.957	VV	376	6084	0.07%	0.004%
302	18.029	17.957	18.043	VV	686	20001	0.24%	0.012%
303	18.061	18.043	18.083	VV	910	14244	0.17%	0.008%
304	18.138	18.083	18.199	VV	39002	539971	6.38%	0.318%
305	18.236	18.199	18.246	VV	166	3592	0.04%	0.002%
306	18.258	18.246	18.269	VV	176	2161	0.03%	0.001%
307	18.311	18.269	18.374	VV	866	19398	0.23%	0.011%
308	18.422	18.374	18.446	PV	343	6602	0.08%	0.004%
309	18.535	18.446	18.549	PV	454371	7405211	87.54%	4.355%
310	18.573	18.549	18.734	VV	501903	6846733	80.94%	4.027%
311	18.794	18.734	18.851	PBA	447502	6649130	78.60%	3.911%

Sum of corrected areas: 170032132

Aromatic EPH 092425.M Tue Sep 30 01:32:03 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-01MSD	SDG No.:	Q3177
Lab Sample ID:	Q3179-03	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056057.D	1	09/29/25	09/29/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	329		8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	286		13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	401		8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	491		12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	1120		23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	58.5		40 - 140	117%	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:	Q3179-03	Acq On:	29 Sep 2025 20:57
Client Sample ID:	EME-TS14-01MSD	Operator:	YP\AJ
Data file:	FE056057.D	Misc:	
Instrument:	FID_E	ALS Vial:	30
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.315	6.946	23042176	164.554	300	ug/ml
Aliphatic C12-C16	6.947	10.396	22005325	143.473	200	ug/ml
Aliphatic C16-C21	10.397	13.773	33279405	200.624	300	ug/ml
Aliphatic C21-C28	13.774	17.443	36466374	245.52	400	ug/ml
Aliphatic C28-C40	17.444	22.449	76389018	560.645	600	ug/ml
Aliphatic EPH	3.315	22.449	191182298	1310		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.512	13.512	8160881	58.47		ug/ml
Aliphatic C9-C28	3.315	17.443	114793280	754.171	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056057.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 20:57
Operator : YP\AJ
Sample : Q3179-03
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MSD

Integration File: autoint1.e
Quant Time: Sep 30 00:32:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.512	8160881	58.474 ug/ml
Spiked Amount	50.000		Recovery =	116.95%
	Target Compounds			
1) T	n-Nonane (C9)	3.416	5771844	42.133 ug/ml
2) T	n-Decane (C10)	4.675	7111210	50.953 ug/ml
4) T	n-Dodecane (C12)	6.849	8430957	58.741 ug/ml
6) T	n-Tetradecane (C14)	8.686	9280824	62.774 ug/ml
7) T	n-Hexadecane (C16)	10.301	10228409	64.367 ug/ml
8) T	n-Octadecane (C18)	11.750	10667564	62.979 ug/ml
10) T	n-Eicosane (C20)	13.065	10864641	65.542 ug/ml
11) T	n-Heneicosane (C21)	13.679	10166796	62.568 ug/ml
13) T	n-Docosane (C22)	14.267	9816245	61.432 ug/ml
14) T	n-Tetracosane (C24)	15.373	9104534	59.749 ug/ml
15) T	n-Hexacosane (C26)	16.397	8428572	59.094 ug/ml
16) T	n-Octacosane (C28)	17.348	8119016	58.282 ug/ml
17) T	n-Tricontane (C30)	18.239	8329721	56.213 ug/ml
18) T	n-Dotriacontane (C32)	19.072	8549001	57.299 ug/ml
19) T	n-Tetratriacontane (C34)	19.858	8872363	62.724 ug/ml
20) T	n-Hexatriacontane (C36)	20.600	9121579	71.056 ug/ml
21) T	n-Octatriacontane (C38)	21.376	9422243	71.738 ug/ml
22) T	n-Tetracontane (C40)	22.360	8913426	74.923 ug/ml

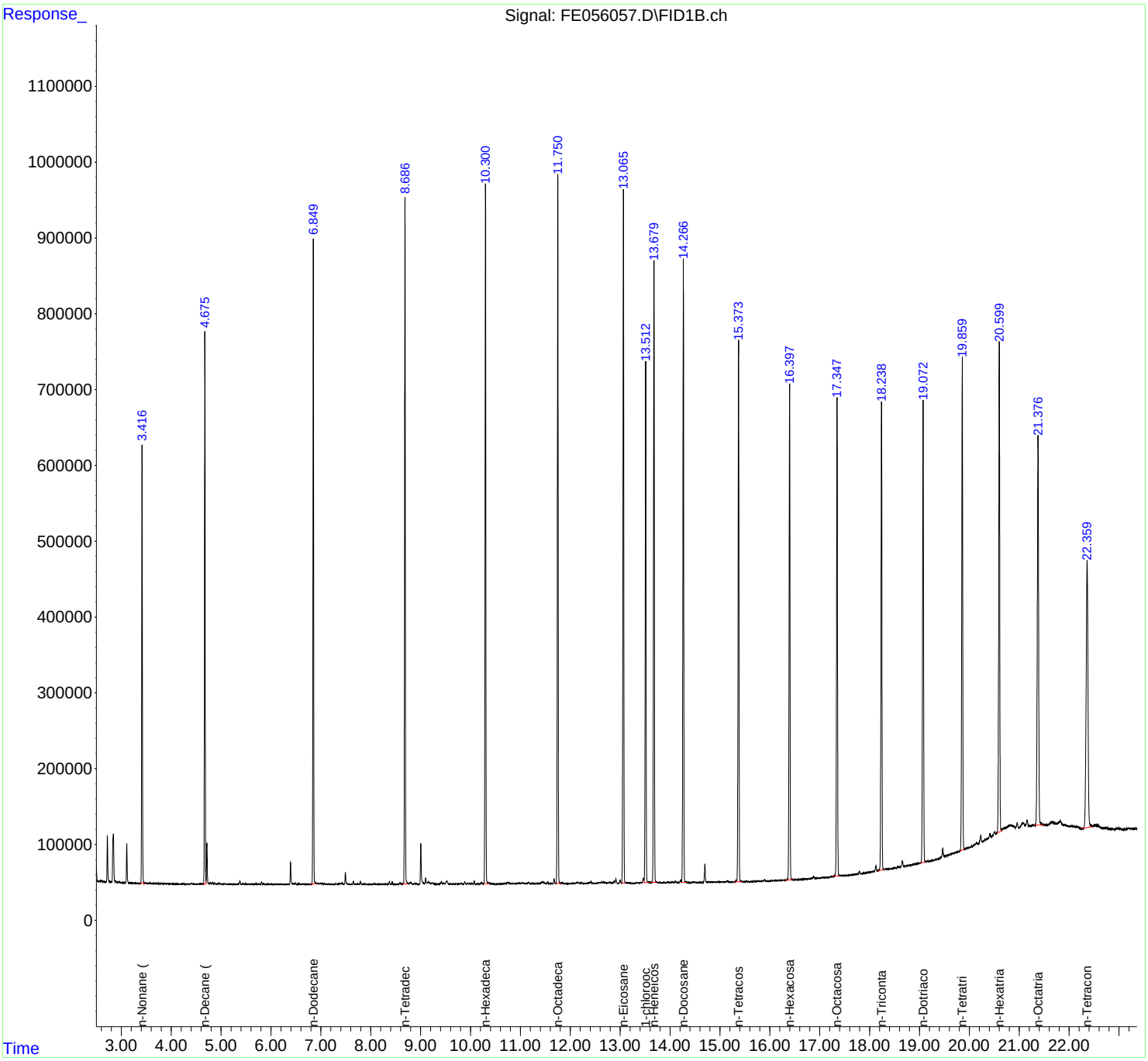
(f)=RT Delta > 1/2 Window (m)=manual int.

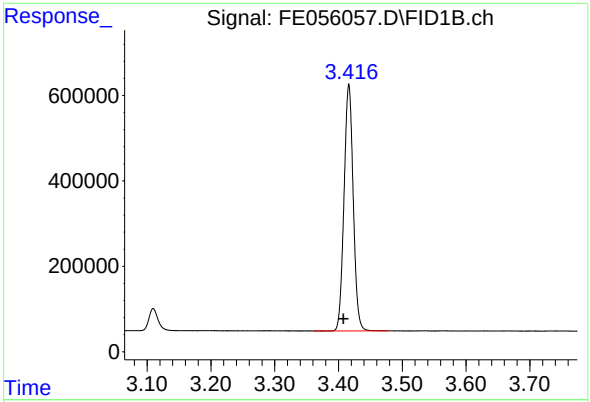
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056057.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 20:57
Operator : YP\AJ
Sample : Q3179-03
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MSD

Integration File: autoint1.e
Quant Time: Sep 30 00:32:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

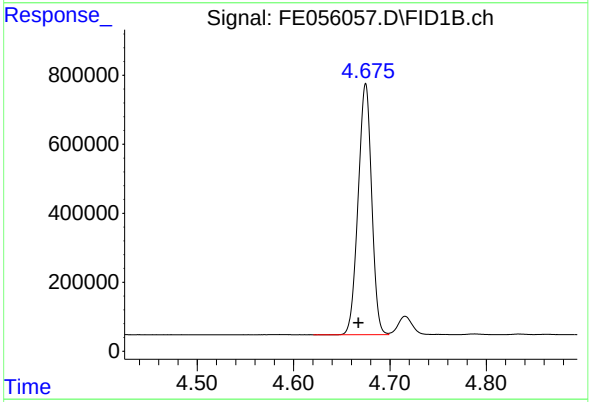




#1 n-Nonane (C9)

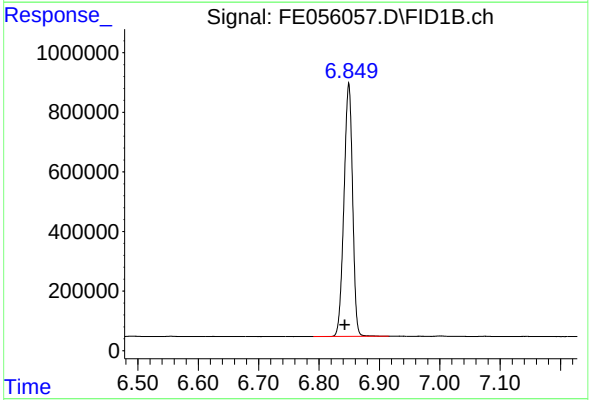
R.T.: 3.416 min
Delta R.T.: 0.008 min
Response: 5771844
Conc: 42.13 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MSD



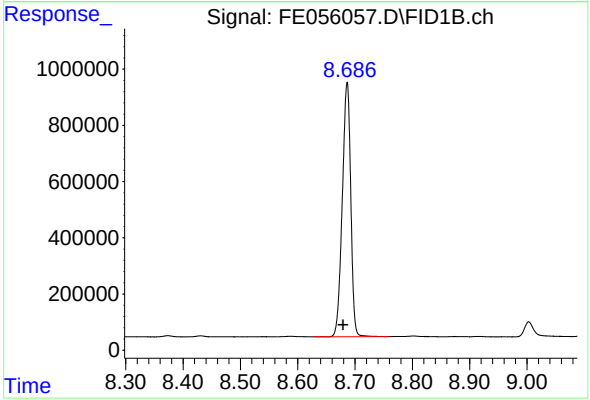
#2 n-Decane (C10)

R.T.: 4.675 min
Delta R.T.: 0.007 min
Response: 7111210
Conc: 50.95 ug/ml



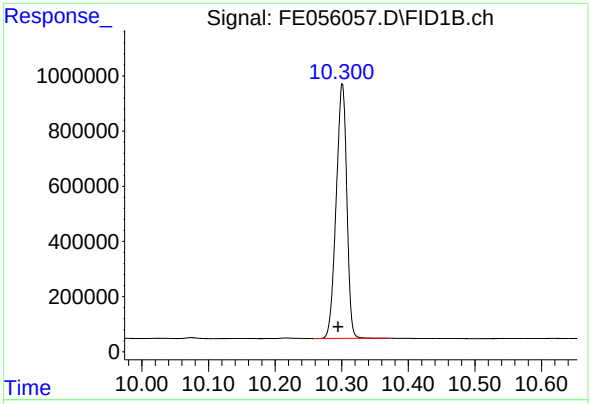
#4 n-Dodecane (C12)

R.T.: 6.849 min
Delta R.T.: 0.006 min
Response: 8430957
Conc: 58.74 ug/ml



#6 n-Tetradecane (C14)

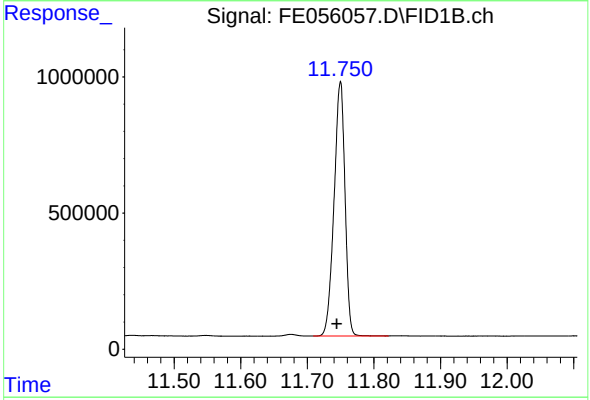
R.T.: 8.686 min
Delta R.T.: 0.007 min
Response: 9280824
Conc: 62.77 ug/ml



#7 n-Hexadecane (C16)

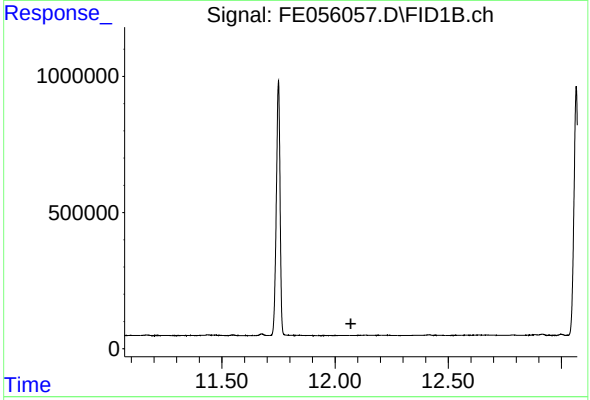
R.T.: 10.301 min
Delta R.T.: 0.006 min
Response: 10228409
Conc: 64.37 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MSD



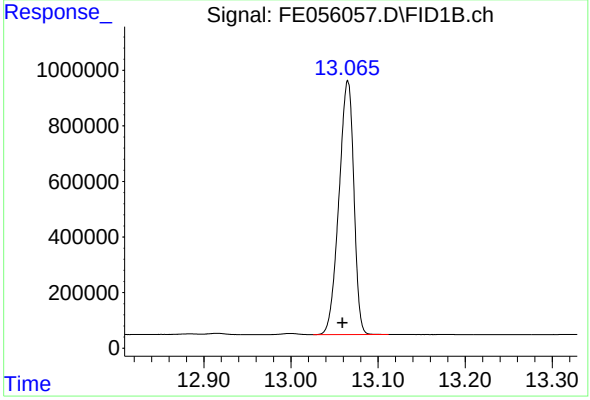
#8 n-Octadecane (C18)

R.T.: 11.750 min
Delta R.T.: 0.005 min
Response: 10667564
Conc: 62.98 ug/ml



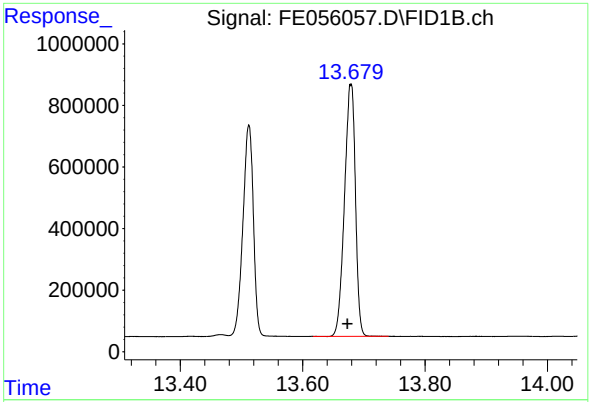
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.070 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

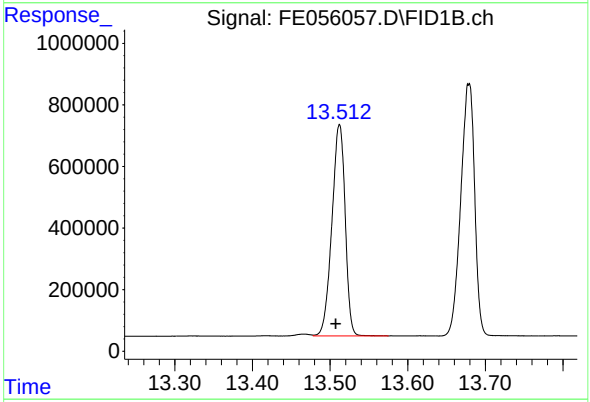
R.T.: 13.065 min
Delta R.T.: 0.006 min
Response: 10864641
Conc: 65.54 ug/ml



#11 n-Heneicosane (C21)

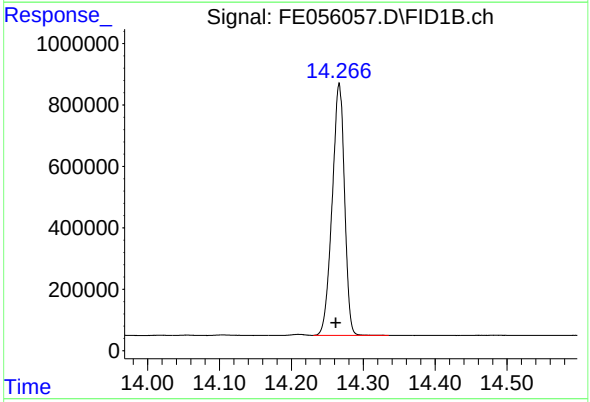
R.T.: 13.679 min
Delta R.T.: 0.006 min
Response: 10166796
Conc: 62.57 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MSD



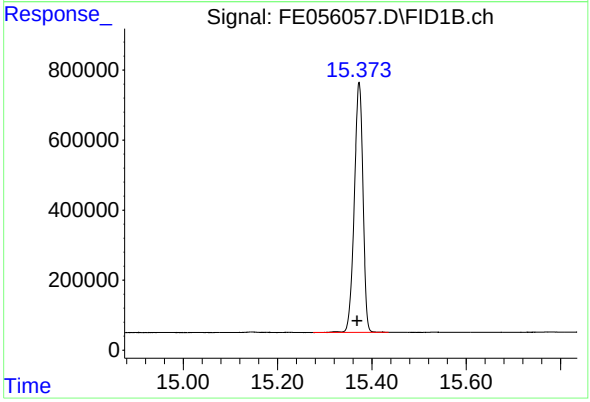
#12 1-chlorooctadecane (SURR)

R.T.: 13.512 min
Delta R.T.: 0.005 min
Response: 8160881
Conc: 58.47 ug/ml



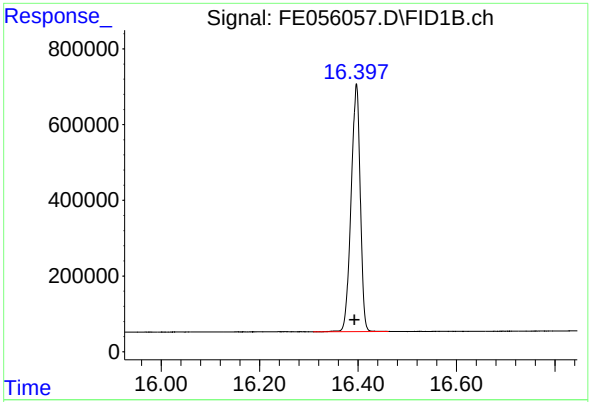
#13 n-Docosane (C22)

R.T.: 14.267 min
Delta R.T.: 0.005 min
Response: 9816245
Conc: 61.43 ug/ml



#14 n-Tetracosane (C24)

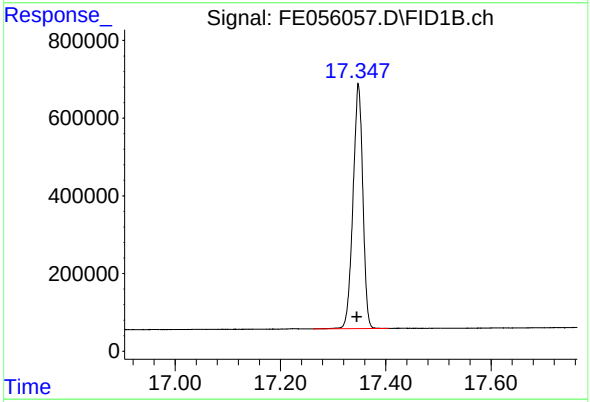
R.T.: 15.373 min
Delta R.T.: 0.004 min
Response: 9104534
Conc: 59.75 ug/ml



#15 n-Hexacosane (C26)

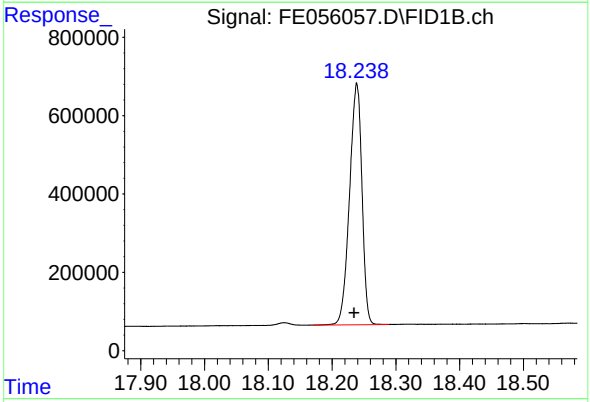
R.T.: 16.397 min
Delta R.T.: 0.004 min
Response: 8428572
Conc: 59.09 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MSD



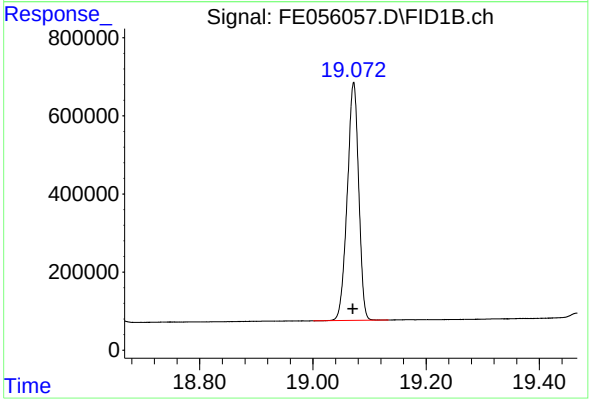
#16 n-Octacosane (C28)

R.T.: 17.348 min
Delta R.T.: 0.003 min
Response: 8119016
Conc: 58.28 ug/ml



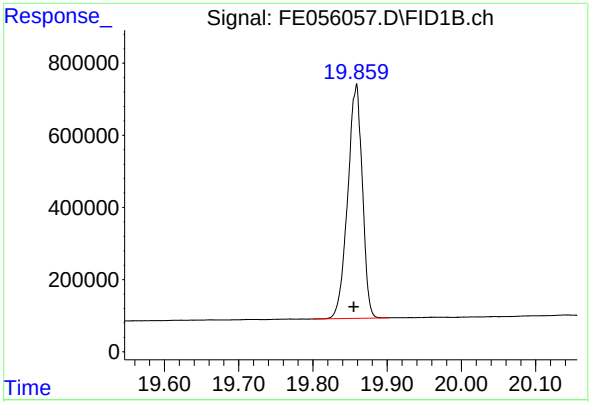
#17 n-Tricontane (C30)

R.T.: 18.239 min
Delta R.T.: 0.004 min
Response: 8329721
Conc: 56.21 ug/ml



#18 n-Dotriacontane (C32)

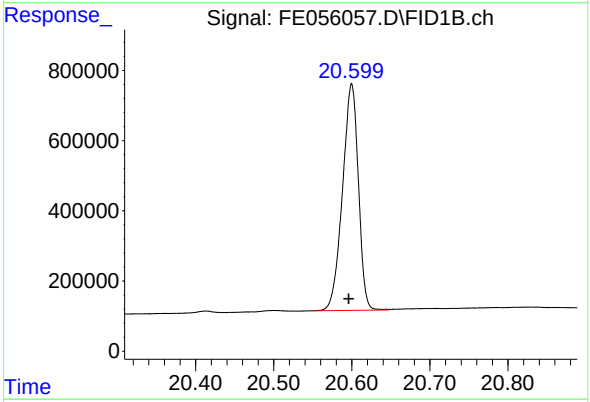
R.T.: 19.072 min
Delta R.T.: 0.002 min
Response: 8549001
Conc: 57.30 ug/ml



#19 n-Tetratriacontane (C34)

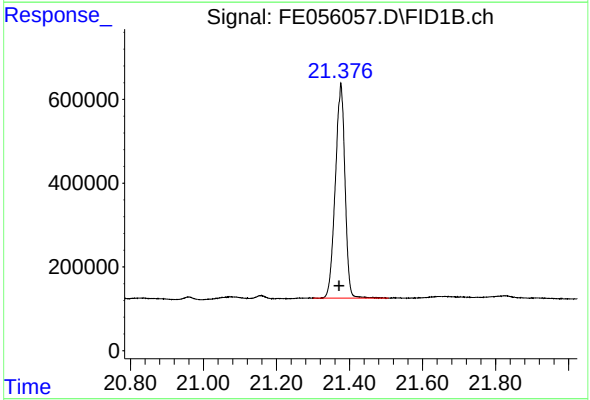
R.T.: 19.858 min
Delta R.T.: 0.003 min
Response: 8872363
Conc: 62.72 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MSD



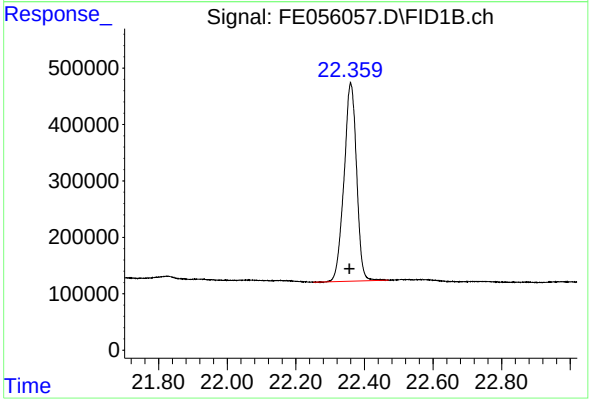
#20 n-Hexatriacontane (C36)

R.T.: 20.600 min
Delta R.T.: 0.004 min
Response: 9121579
Conc: 71.06 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.376 min
Delta R.T.: 0.005 min
Response: 9422243
Conc: 71.74 ug/ml



#22 n-Tetracontane (C40)

R.T.: 22.360 min
Delta R.T.: 0.003 min
Response: 8913426
Conc: 74.92 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056057.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 20:57
Sample : Q3179-03MSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.840	2.805	2.877	BV	64583	1047113	9.23%	0.521%
2	2.890	2.877	2.938	VV	1810	24163	0.21%	0.012%
3	2.955	2.938	3.038	VV	1114	12825	0.11%	0.006%
4	3.054	3.038	3.081	VV	337	3177	0.03%	0.002%
5	3.110	3.081	3.178	PV	51242	517291	4.56%	0.257%
6	3.199	3.178	3.271	VV	296	8492	0.07%	0.004%
7	3.287	3.271	3.352	VV	301	5119	0.05%	0.003%
8	3.358	3.352	3.380	VV	98	729	0.01%	0.000%
9	3.416	3.380	3.517	PV	575112	5796886	51.12%	2.884%
10	3.536	3.517	3.550	VV	442	6163	0.05%	0.003%
11	3.565	3.550	3.584	VV	462	6721	0.06%	0.003%
12	3.597	3.584	3.610	VV	347	3807	0.03%	0.002%
13	3.629	3.610	3.643	VV	383	5238	0.05%	0.003%
14	3.663	3.643	3.691	VV	414	7593	0.07%	0.004%
15	3.704	3.691	3.721	VV	275	2782	0.02%	0.001%
16	3.753	3.721	3.778	VV	428	9025	0.08%	0.004%
17	3.792	3.778	3.844	VV	495	9528	0.08%	0.005%
18	3.865	3.844	3.898	VV	274	4142	0.04%	0.002%
19	3.906	3.898	3.918	VV	129	1241	0.01%	0.001%
20	3.927	3.918	3.986	VV	168	3785	0.03%	0.002%
21	4.007	3.986	4.051	PV	410	7583	0.07%	0.004%
22	4.054	4.051	4.076	VV	136	1429	0.01%	0.001%
23	4.105	4.076	4.177	VV	246	7304	0.06%	0.004%
24	4.213	4.177	4.231	PV	580	8156	0.07%	0.004%
25	4.246	4.231	4.300	VV	793	11416	0.10%	0.006%
26	4.322	4.300	4.361	VV	408	5851	0.05%	0.003%
27	4.402	4.361	4.460	VV	754	19313	0.17%	0.010%
28	4.474	4.460	4.521	VV	208	4348	0.04%	0.002%
29	4.533	4.521	4.539	VV	160	1294	0.01%	0.001%
30	4.586	4.539	4.604	VV	630	11608	0.10%	0.006%
31	4.618	4.604	4.640	VV	270	3905	0.03%	0.002%
32	4.675	4.640	4.699	VV	729088	7123628	62.82%	3.544%
33	4.716	4.699	4.771	VV	53795	574460	5.07%	0.286%
34	4.788	4.771	4.814	VV	2588	33372	0.29%	0.017%
35	4.835	4.814	4.850	VV	2245	27064	0.24%	0.013%
36	4.863	4.850	4.882	VV	1461	18634	0.16%	0.009%

37	4.890	4.882	4.908	VV	612	7589	0.07%	0.004%
38	4.925	4.908	4.941	VV	924	11734	0.10%	0.006%
39	4.958	4.941	4.976	VV	1774	18844	0.17%	0.009%
40	4.989	4.976	5.021	VV	590	10874	0.10%	0.005%
41	5.041	5.021	5.051	VV	471	7053	0.06%	0.004%
42	5.064	5.051	5.077	VV	521	6834	0.06%	0.003%
43	5.096	5.077	5.130	VV	629	13598	0.12%	0.007%
44	5.141	5.130	5.247	VV	371	12937	0.11%	0.006%
45	5.289	5.247	5.304	VV	405	6190	0.05%	0.003%
46	5.319	5.304	5.331	VV	504	5280	0.05%	0.003%
47	5.348	5.331	5.356	VV	565	6267	0.06%	0.003%
48	5.376	5.356	5.409	VV	4167	48608	0.43%	0.024%
49	5.437	5.409	5.471	VV	1267	17720	0.16%	0.009%
50	5.487	5.471	5.520	VV	824	12011	0.11%	0.006%
51	5.564	5.520	5.575	VV	591	9688	0.09%	0.005%
52	5.582	5.575	5.594	VV	522	4642	0.04%	0.002%
53	5.607	5.594	5.665	VV	478	11963	0.11%	0.006%
54	5.698	5.665	5.734	VV	678	18506	0.16%	0.009%
55	5.754	5.734	5.767	VV	633	8067	0.07%	0.004%
56	5.776	5.767	5.795	VV	531	6381	0.06%	0.003%
57	5.813	5.795	5.838	VV	3356	37988	0.34%	0.019%
58	5.856	5.838	5.878	VV	1611	18896	0.17%	0.009%
59	5.915	5.878	5.935	VV	428	9347	0.08%	0.005%
60	5.961	5.935	5.975	VV	547	9368	0.08%	0.005%
61	6.003	5.975	6.035	VV	689	15359	0.14%	0.008%
62	6.041	6.035	6.060	VV	191	1973	0.02%	0.001%
63	6.081	6.060	6.095	VV	223	3324	0.03%	0.002%
64	6.110	6.095	6.158	VV	402	8768	0.08%	0.004%
65	6.184	6.158	6.222	VV	311	6176	0.05%	0.003%
66	6.235	6.222	6.271	PV	136	2241	0.02%	0.001%
67	6.295	6.271	6.317	PV	338	4692	0.04%	0.002%
68	6.347	6.317	6.361	VV	281	4128	0.04%	0.002%
69	6.393	6.361	6.432	VV	28930	317015	2.80%	0.158%
70	6.445	6.432	6.475	VV	1192	22543	0.20%	0.011%
71	6.491	6.475	6.534	VV	1698	28127	0.25%	0.014%
72	6.555	6.534	6.581	VV	1319	19471	0.17%	0.010%
73	6.590	6.581	6.600	VV	400	4506	0.04%	0.002%
74	6.627	6.600	6.662	VV	691	20194	0.18%	0.010%
75	6.672	6.662	6.703	VV	415	8775	0.08%	0.004%
76	6.731	6.703	6.751	VV	589	11252	0.10%	0.006%
77	6.780	6.751	6.815	VV	347	11023	0.10%	0.005%
78	6.849	6.815	6.915	VV	839221	8484724	74.83%	4.221%
79	6.932	6.915	6.953	VV	1717	30495	0.27%	0.015%
80	6.968	6.953	6.984	VV	1276	19764	0.17%	0.010%
81	7.001	6.984	7.023	VV	2362	33772	0.30%	0.017%
82	7.033	7.023	7.058	VV	1020	16221	0.14%	0.008%
83	7.075	7.058	7.112	VV	1315	21258	0.19%	0.011%
84	7.142	7.112	7.162	VV	780	15182	0.13%	0.008%
85	7.170	7.162	7.208	VV	373	7817	0.07%	0.004%
86	7.222	7.208	7.248	VV	381	5898	0.05%	0.003%
87	7.253	7.248	7.273	VV	233	2928	0.03%	0.001%
88	7.301	7.273	7.336	VV	1130	19395	0.17%	0.010%
89	7.358	7.336	7.378	VV	1266	19655	0.17%	0.010%

90	7.426	7.378	7.454	VV	1996	50467	0.45%	0.025%
91	7.492	7.454	7.585	VV	15809	208788	1.84%	0.104%
92	7.597	7.585	7.618	VV	611	8365	0.07%	0.004%
93	7.653	7.618	7.699	VV	4472	56925	0.50%	0.028%
94	7.732	7.699	7.748	VV	834	15996	0.14%	0.008%
95	7.762	7.748	7.773	VV	683	7881	0.07%	0.004%
96	7.796	7.773	7.821	VV	3831	46677	0.41%	0.023%
97	7.830	7.821	7.845	VV	407	4669	0.04%	0.002%
98	7.863	7.845	7.877	VV	855	11870	0.10%	0.006%
99	7.889	7.877	7.910	VV	720	8402	0.07%	0.004%
100	7.921	7.910	7.930	VV	157	1124	0.01%	0.001%
101	7.963	7.930	7.989	VV	442	6930	0.06%	0.003%
102	8.020	7.989	8.041	VV	220	3518	0.03%	0.002%
103	8.063	8.041	8.084	PV	1671	19136	0.17%	0.010%
104	8.093	8.084	8.106	VV	391	4328	0.04%	0.002%
105	8.121	8.106	8.150	VV	536	11319	0.10%	0.006%
106	8.161	8.150	8.188	VV	484	6919	0.06%	0.003%
107	8.232	8.188	8.273	VV	659	18923	0.17%	0.009%
108	8.289	8.273	8.316	VV	404	7504	0.07%	0.004%
109	8.329	8.316	8.351	VV	506	5171	0.05%	0.003%
110	8.373	8.351	8.405	VV	4320	47839	0.42%	0.024%
111	8.431	8.405	8.453	VV	3810	41849	0.37%	0.021%
112	8.468	8.453	8.511	VV	414	8808	0.08%	0.004%
113	8.540	8.511	8.555	VV	677	11245	0.10%	0.006%
114	8.588	8.555	8.627	VV	2237	42247	0.37%	0.021%
115	8.642	8.627	8.650	VV	660	7070	0.06%	0.004%
116	8.686	8.650	8.759	VV	897327	9332410	82.30%	4.643%
117	8.802	8.759	8.858	VV	3131	85098	0.75%	0.042%
118	8.874	8.858	8.900	VV	1219	21304	0.19%	0.011%
119	8.916	8.900	8.945	VV	1622	19970	0.18%	0.010%
120	8.961	8.945	8.974	PV	114	1400	0.01%	0.001%
121	9.003	8.974	9.081	VV	53122	663852	5.85%	0.330%
122	9.101	9.081	9.125	VV	8446	105955	0.93%	0.053%
123	9.154	9.125	9.207	VV	2770	98820	0.87%	0.049%
124	9.225	9.207	9.268	VV	2154	47101	0.42%	0.023%
125	9.288	9.268	9.317	VV	900	14433	0.13%	0.007%
126	9.343	9.317	9.365	VV	688	10950	0.10%	0.005%
127	9.414	9.365	9.433	VV	2779	52207	0.46%	0.026%
128	9.447	9.433	9.463	VV	1977	26572	0.23%	0.013%
129	9.470	9.463	9.488	VV	1223	14846	0.13%	0.007%
130	9.528	9.488	9.578	VV	4585	107276	0.95%	0.053%
131	9.601	9.578	9.628	VV	1018	13589	0.12%	0.007%
132	9.650	9.628	9.677	VV	760	9163	0.08%	0.005%
133	9.697	9.677	9.717	VV	415	6324	0.06%	0.003%
134	9.732	9.717	9.744	VV	451	5640	0.05%	0.003%
135	9.754	9.744	9.780	VV	445	7251	0.06%	0.004%
136	9.815	9.780	9.836	VV	1133	21073	0.19%	0.010%
137	9.887	9.836	9.917	VV	2851	47228	0.42%	0.023%
138	9.935	9.917	9.949	VV	977	11892	0.10%	0.006%
139	9.975	9.949	10.001	VV	1073	22302	0.20%	0.011%
140	10.027	10.001	10.052	VV	1293	24106	0.21%	0.012%
141	10.074	10.052	10.114	VV	3868	45016	0.40%	0.022%

142	10.153	10.114	10.178	VV	618	12225	0.11%	0.006%
143	10.216	10.178	10.260	VV	2169	38978	0.34%	0.019%
144	10.301	10.260	10.434	VV	928736	10312484	90.95%	5.130%
145	10.446	10.434	10.461	VV	600	7993	0.07%	0.004%
146	10.469	10.461	10.496	VV	506	5557	0.05%	0.003%
147	10.547	10.496	10.557	PV	289	4050	0.04%	0.002%
148	10.577	10.557	10.591	VV	491	6306	0.06%	0.003%
149	10.618	10.591	10.657	VV	825	19098	0.17%	0.010%
150	10.692	10.657	10.710	VV	1184	23114	0.20%	0.011%
151	10.738	10.710	10.816	VV	2464	72419	0.64%	0.036%
152	10.847	10.816	10.870	VV	794	17582	0.16%	0.009%
153	10.939	10.870	10.955	VV	969	38362	0.34%	0.019%
154	10.973	10.955	11.005	VV	1255	31112	0.27%	0.015%
155	11.038	11.005	11.074	VV	2206	49630	0.44%	0.025%
156	11.095	11.074	11.109	VV	1036	15181	0.13%	0.008%
157	11.127	11.109	11.138	VV	853	13708	0.12%	0.007%
158	11.168	11.138	11.206	VV	2483	49421	0.44%	0.025%
159	11.211	11.206	11.220	VV	428	3396	0.03%	0.002%
160	11.236	11.220	11.245	VV	655	7852	0.07%	0.004%
161	11.258	11.245	11.278	VV	755	10787	0.10%	0.005%
162	11.296	11.278	11.308	VV	402	6052	0.05%	0.003%
163	11.325	11.308	11.341	VV	554	9357	0.08%	0.005%
164	11.362	11.341	11.387	VV	918	16990	0.15%	0.008%
165	11.437	11.387	11.454	VV	3111	60410	0.53%	0.030%
166	11.468	11.454	11.518	VV	2119	43804	0.39%	0.022%
167	11.548	11.518	11.594	VV	2661	36334	0.32%	0.018%
168	11.613	11.594	11.639	VV	243	3994	0.04%	0.002%
169	11.675	11.639	11.706	VV	6436	81661	0.72%	0.041%
170	11.750	11.706	11.820	VV	929003	10702050	94.38%	5.324%
171	11.840	11.820	11.873	VV	1307	24373	0.21%	0.012%
172	11.886	11.873	11.930	VV	352	5970	0.05%	0.003%
173	11.976	11.930	11.998	PV	247	5813	0.05%	0.003%
174	12.069	11.998	12.084	VV	536	17203	0.15%	0.009%
175	12.134	12.084	12.153	VV	1501	36401	0.32%	0.018%
176	12.166	12.153	12.187	VV	1083	17968	0.16%	0.009%
177	12.205	12.187	12.218	VV	984	14891	0.13%	0.007%
178	12.232	12.218	12.252	VV	1231	15684	0.14%	0.008%
179	12.262	12.252	12.282	VV	265	3177	0.03%	0.002%
180	12.414	12.282	12.442	VV	2634	74349	0.66%	0.037%
181	12.462	12.442	12.495	VV	858	16960	0.15%	0.008%
182	12.581	12.495	12.604	VV	1417	50756	0.45%	0.025%
183	12.638	12.604	12.655	VV	2051	45433	0.40%	0.023%
184	12.670	12.655	12.740	VV	1828	60109	0.53%	0.030%
185	12.754	12.740	12.768	VV	724	10532	0.09%	0.005%
186	12.785	12.768	12.813	VV	1966	32251	0.28%	0.016%
187	12.884	12.813	12.897	VV	3072	70129	0.62%	0.035%
188	12.915	12.897	12.945	VV	4808	70196	0.62%	0.035%
189	12.955	12.945	12.967	VV	334	3498	0.03%	0.002%
190	12.999	12.967	13.024	VV	4425	58897	0.52%	0.029%
191	13.065	13.024	13.118	VV	913450	10890304	96.04%	5.418%
192	13.124	13.118	13.163	VV	853	15276	0.13%	0.008%
193	13.178	13.163	13.248	VV	606	12492	0.11%	0.006%
194	13.323	13.248	13.365	PV	757	19259	0.17%	0.010%

195	13.417	13.365	13.436	VV	1341	25371	0.22%	0.013%
196	13.466	13.436	13.478	VV	6741	88918	0.78%	0.044%
197	13.512	13.478	13.595	VV	688074	8215696	72.45%	4.087%
198	13.615	13.595	13.637	VV	985	19559	0.17%	0.010%
199	13.679	13.637	13.767	VV	825796	10237416	90.28%	5.093%
200	13.792	13.767	13.850	VV	879	26868	0.24%	0.013%
201	13.884	13.850	13.910	VV	743	19490	0.17%	0.010%
202	13.944	13.910	13.992	VV	1013	31652	0.28%	0.016%
203	14.018	13.992	14.038	VV	1026	16221	0.14%	0.008%
204	14.054	14.038	14.081	VV	1371	20347	0.18%	0.010%
205	14.105	14.081	14.148	VV	2079	37746	0.33%	0.019%
206	14.210	14.148	14.228	VV	3804	58555	0.52%	0.029%
207	14.267	14.228	14.345	VV	816223	9842118	86.80%	4.896%
208	14.358	14.345	14.377	VV	353	5471	0.05%	0.003%
209	14.394	14.377	14.409	VV	336	3776	0.03%	0.002%
210	14.418	14.409	14.435	VV	130	1418	0.01%	0.001%
211	14.462	14.435	14.475	VV	462	7997	0.07%	0.004%
212	14.489	14.475	14.542	VV	555	13124	0.12%	0.007%
213	14.552	14.542	14.573	VV	270	3117	0.03%	0.002%
214	14.595	14.573	14.615	PV	384	4825	0.04%	0.002%
215	14.698	14.615	14.768	VV	23808	316338	2.79%	0.157%
216	14.776	14.768	14.802	VV	404	6474	0.06%	0.003%
217	14.826	14.802	14.861	VV	1160	16506	0.15%	0.008%
218	14.898	14.861	14.916	VV	403	8944	0.08%	0.004%
219	14.967	14.916	15.008	VV	543	19802	0.17%	0.010%
220	15.033	15.008	15.061	VV	351	8537	0.08%	0.004%
221	15.084	15.061	15.095	VV	455	6267	0.06%	0.003%
222	15.145	15.095	15.166	VV	1695	33578	0.30%	0.017%
223	15.174	15.166	15.199	VV	598	8827	0.08%	0.004%
224	15.225	15.199	15.258	VV	604	10918	0.10%	0.005%
225	15.269	15.258	15.278	VV	148	1054	0.01%	0.001%
226	15.324	15.278	15.334	PV	2551	33693	0.30%	0.017%
227	15.373	15.334	15.504	VV	715253	9104685	80.29%	4.529%
228	15.533	15.504	15.551	VV	705	10374	0.09%	0.005%
229	15.561	15.551	15.611	VV	288	4927	0.04%	0.002%
230	15.623	15.611	15.638	VV	128	993	0.01%	0.000%
231	15.645	15.638	15.657	PV	82	435	0.00%	0.000%
232	15.689	15.657	15.698	PV	125	1665	0.01%	0.001%
233	15.781	15.698	15.810	PV	643	17554	0.15%	0.009%
234	15.849	15.810	15.865	VV	499	8945	0.08%	0.004%
235	15.889	15.865	15.931	VV	1930	28403	0.25%	0.014%
236	15.972	15.931	15.988	VV	219	4821	0.04%	0.002%
237	16.035	15.988	16.049	VV	220	4079	0.04%	0.002%
238	16.067	16.049	16.079	VV	184	2606	0.02%	0.001%
239	16.086	16.079	16.118	VV	138	2106	0.02%	0.001%
240	16.125	16.118	16.134	VV	115	631	0.01%	0.000%
241	16.156	16.134	16.178	PV	198	3024	0.03%	0.002%
242	16.252	16.178	16.263	VV	364	10969	0.10%	0.005%
243	16.286	16.263	16.311	VV	219	4241	0.04%	0.002%
244	16.397	16.311	16.478	PV	659143	8449215	74.51%	4.203%
245	16.487	16.478	16.501	VV	164	1859	0.02%	0.001%
246	16.525	16.501	16.542	VV	295	3970	0.04%	0.002%

247	16.586	16.542	16.595	VV	233	6370	0.06%	0.003%
248	16.605	16.595	16.614	VV	150	1332	0.01%	0.001%
249	16.773	16.614	16.785	PV	137	653	0.01%	0.000%
250	16.876	16.785	16.928	VV	2356	43026	0.38%	0.021%
251	16.961	16.928	16.991	VV	205	4867	0.04%	0.002%
252	17.050	16.991	17.068	PV	229	5113	0.05%	0.003%
253	17.091	17.068	17.105	VV	184	2253	0.02%	0.001%
254	17.227	17.105	17.254	PV	776	9222	0.08%	0.005%
255	17.348	17.254	17.406	VV	630924	8150270	71.88%	4.055%
256	17.431	17.406	17.455	VV	597	14103	0.12%	0.007%
257	17.458	17.455	17.505	VV	390	6817	0.06%	0.003%
258	17.511	17.505	17.519	VV	158	999	0.01%	0.000%
259	17.613	17.519	17.643	VV	331	6450	0.06%	0.003%
260	17.686	17.643	17.698	PV	207	3343	0.03%	0.002%
261	17.733	17.698	17.740	PV	258	4677	0.04%	0.002%
262	17.795	17.740	17.827	VV	3699	58078	0.51%	0.029%
263	17.886	17.827	17.911	PV	519	8877	0.08%	0.004%
264	18.125	17.911	18.156	PV	6985	129703	1.14%	0.065%
265	18.239	18.156	18.295	VV	614819	8370774	73.82%	4.164%
266	18.323	18.295	18.346	VV	1029	24891	0.22%	0.012%
267	18.501	18.346	18.520	VV	596	26155	0.23%	0.013%
268	18.571	18.520	18.585	PV	862	11467	0.10%	0.006%
269	18.657	18.585	18.688	VV	7996	125084	1.10%	0.062%
270	18.754	18.688	18.768	VV	260	6290	0.06%	0.003%
271	19.072	18.768	19.134	VV	608822	8560041	75.49%	4.258%
272	19.168	19.134	19.181	VV	692	14025	0.12%	0.007%
273	19.200	19.181	19.218	VV	403	6745	0.06%	0.003%
274	19.372	19.218	19.385	PV	1003	36404	0.32%	0.018%
275	19.465	19.385	19.498	VV	13167	264869	2.34%	0.132%
276	19.664	19.498	19.681	VV	4142	343127	3.03%	0.171%
277	19.720	19.681	19.733	VV	4434	128914	1.14%	0.064%
278	19.770	19.733	19.778	VV	4912	119154	1.05%	0.059%
279	19.858	19.778	19.901	VV	645450	9272478	81.77%	4.613%
280	19.965	19.901	19.989	VV	7161	361736	3.19%	0.180%
281	20.141	19.989	20.168	VV	11147	926942	8.17%	0.461%
282	20.228	20.168	20.261	VV	19794	729147	6.43%	0.363%
283	20.413	20.261	20.437	VV	19847	1472634	12.99%	0.733%
284	20.501	20.437	20.535	VV	20266	1031155	9.09%	0.513%
285	20.600	20.535	20.648	VV	665330	10420681	91.90%	5.184%
286	20.708	20.648	20.718	VV	23065	950053	8.38%	0.473%
287	20.786	20.718	20.794	VV	24760	1077432	9.50%	0.536%
288	20.831	20.794	20.924	VV	25208	1825095	16.10%	0.908%
289	20.960	20.924	20.995	VV	26184	945834	8.34%	0.471%
290	21.075	20.995	21.125	VV	24746	1726511	15.23%	0.859%
291	21.157	21.125	21.193	VV	26521	909880	8.02%	0.453%
292	21.207	21.193	21.229	VV	19101	398043	3.51%	0.198%
293	21.264	21.229	21.278	VV	19223	552332	4.87%	0.275%
294	21.300	21.278	21.319	VV	18817	461802	4.07%	0.230%
295	21.376	21.319	21.507	VV	527905	11339219	100.00%	5.641%
296	21.525	21.507	21.561	VV	16082	506128	4.46%	0.252%
297	21.662	21.561	21.739	VV	17565	1704650	15.03%	0.848%
298	21.751	21.739	21.760	VV	14352	178695	1.58%	0.089%
299	21.825	21.760	21.893	VV	16837	1124286	9.92%	0.559%

300	21.910	21.893	22.024	VV	10537	673060	5.94%	0.335%
301	22.057	22.024	22.128	VV	6836	379438	3.35%	0.189%
302	22.155	22.128	22.258	VV	4743	222064	1.96%	0.110%
303	22.268	22.258	22.274	VV	247	2296	0.02%	0.001%
304	22.360	22.274	22.472	PV	350382	8940543	78.85%	4.448%

Sum of corrected areas: 201016179

Aliphatic EPH 092425.M Tue Sep 30 06:35:37 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-01MSD	SDG No.:	Q3177
Lab Sample ID:	Q3179-03	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016478.D	1	09/29/25	09/29/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	216		2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	359		4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	745		8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	933		23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	49.3		40 - 140	99%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	44.8		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	48.5		40 - 140	97%	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:	Q3179-03	Acq On:	29 Sep 2025 20:33
Client Sample ID:	EME-TS14-01MSD	Operator:	YP\AJ
Data file:	FF016478.D	Misc:	
Instrument:	FID_F	ALS Vial:	89
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.521	6.397	15510841	108.224	200	ug/ml
Aromatic C12-C16	6.398	9.101	26121744	179.92	300	ug/ml
Aromatic C16-C21	9.102	13.420	53705559	372.508	500	ug/ml
Aromatic C21-C36	13.421	18.876	61061959	466.713	800	ug/ml
Aromatic EPH	4.521	18.876	156400103	1130		ug/ml
2-Bromonaphthalene (SURR)	8.027	8.027	6177103	49.31		ug/ml
2-Flurobiphenyl (SURR)	8.903	8.903	3780657	44.83		ug/ml
ortho-Terphenyl (SURR)	11.971	11.971	7387930	48.46		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016478.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 20:33
Operator : YP\AJ
Sample : Q3179-03MSD
Misc :
ALS Vial : 89 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MSD

Integration File: autoint1.e
Quant Time: Sep 30 01:06:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
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...	8.027	6177103	49.312 ug/ml
Spiked Amount	50.000		Recovery =	98.62%
6)	S 2-Flurobiphenyl (SURR)	8.903	3780657	44.827 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	89.65%
11)	S ortho-Terphenyl (SURR)	11.971	7387930	48.462 ug/ml
Spiked Amount	50.000		Recovery =	96.92%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.621	6523757	46.280 ug/ml
2)	T Naphthalene (C11.7)	6.298	7439663	51.068 ug/ml
3)	T 2-Methylnaphthalene (...	7.398	7144507	48.529 ug/ml
5)	T Acenaphthylene (C15.06)	8.705	7976442	55.041 ug/ml
7)	T Acenaphthene (C15.5)	9.006	8085770	56.379 ug/ml
8)	T Flouorene (C16.55)	9.796	8201591	56.773 ug/ml
9)	T Phenanthrene (C19.36)	11.203	8133608	55.764 ug/ml
10)	T Anthracene (C19.43)	11.280	8088666	56.536 ug/ml
12)	T Fluoranthene (C21.85)	13.028	7912752	54.179 ug/ml
13)	T Pyrene (C20.8)	13.328	7861443	54.859 ug/ml
14)	T Benzo[a]anthracene (C...	15.212	7393494	54.315 ug/ml
15)	T Chrysene (C27.41)	15.257	8048520	56.422 ug/ml
16)	T benzo[b]fluoranthene ...	16.774	7026231	53.472 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.810	6974796	55.413 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.156	6759084	52.934 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.533	7230058	63.400 ug/ml
20)	T Dibenz[a,h]anthracene...	18.571	6691161	51.253 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.791	6530278	53.032 ug/ml

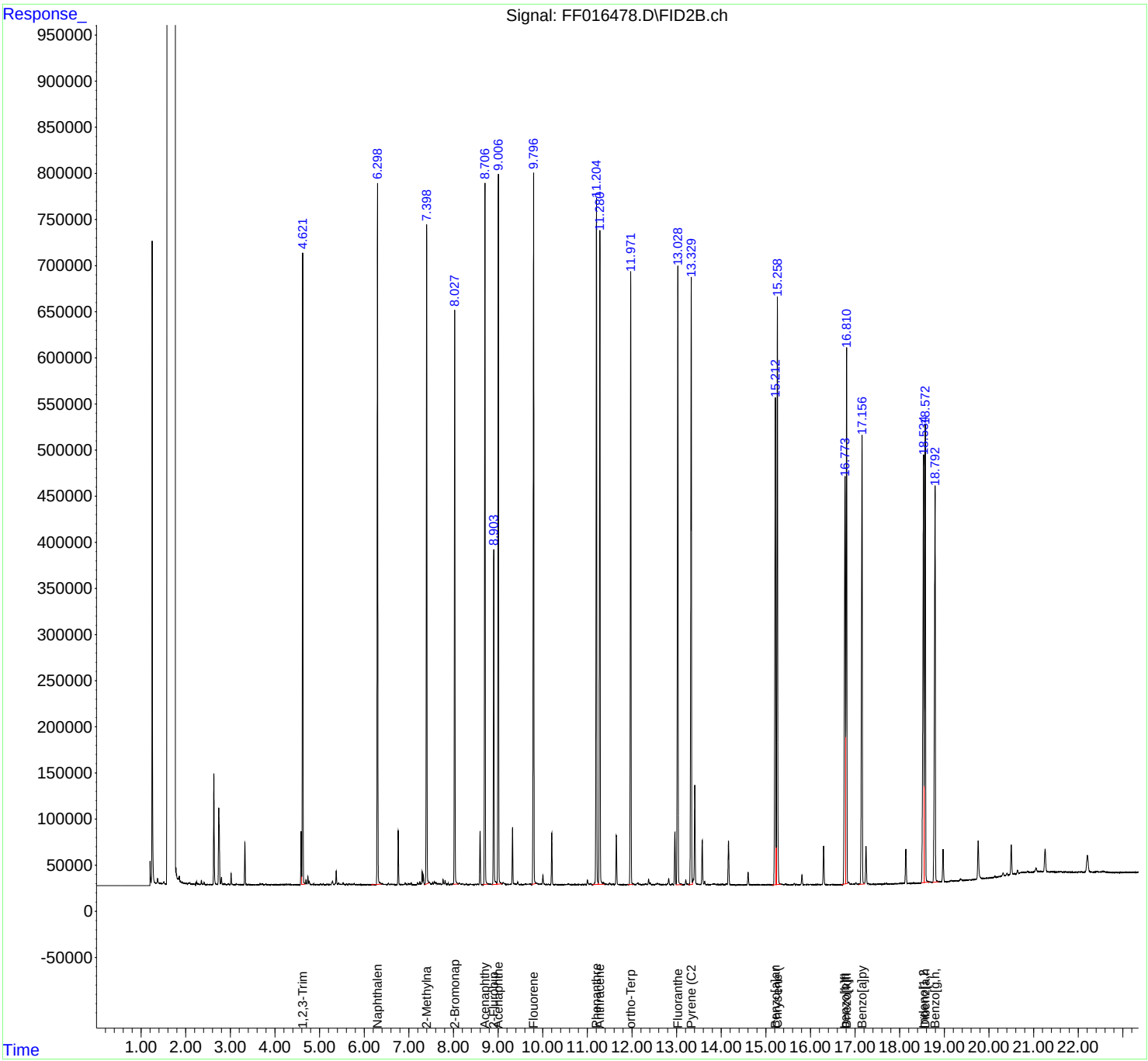
(f)=RT Delta > 1/2 Window (m)=manual int.

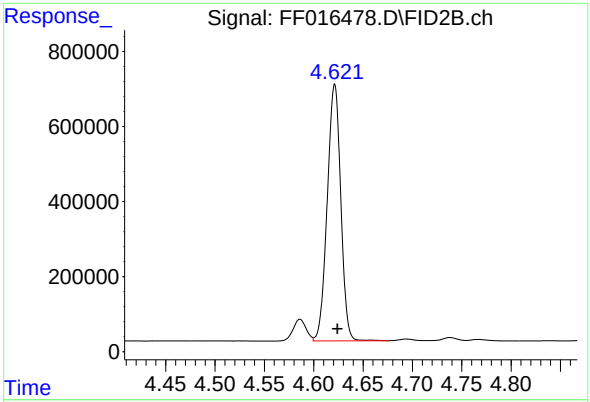
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016478.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 20:33
Operator : YP\AJ
Sample : Q3179-03MSD
Misc :
ALS Vial : 89 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MSD

Integration File: autoint1.e
Quant Time: Sep 30 01:06:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

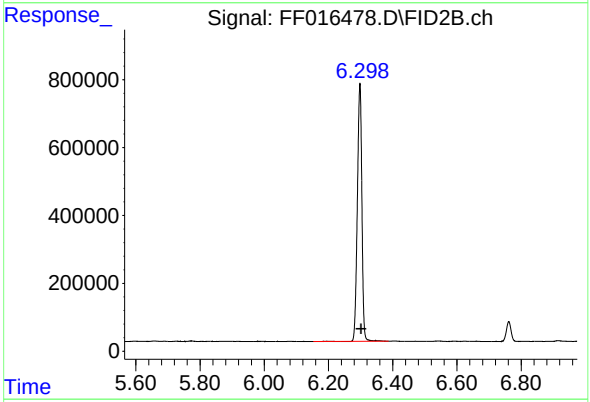




#1 1,2,3-Trimethylbenzene (C10.1)

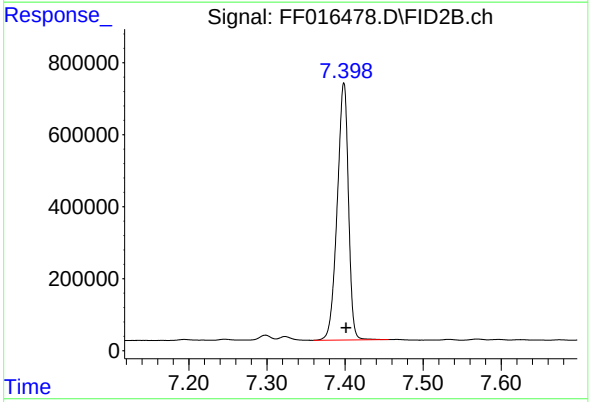
R.T.: 4.621 min
Delta R.T.: -0.003 min
Response: 6523757
Conc: 46.28 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MSD



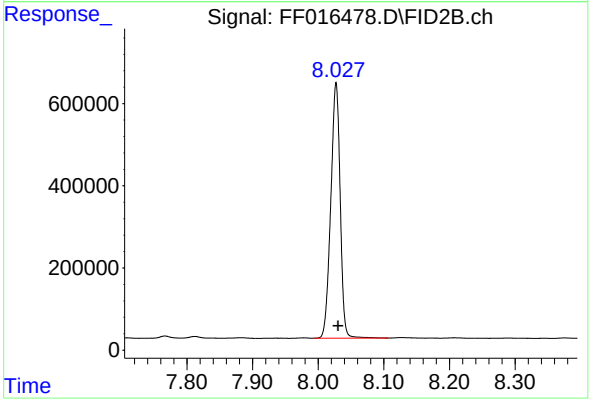
#2 Naphthalene (C11.7)

R.T.: 6.298 min
Delta R.T.: -0.003 min
Response: 7439663
Conc: 51.07 ug/ml



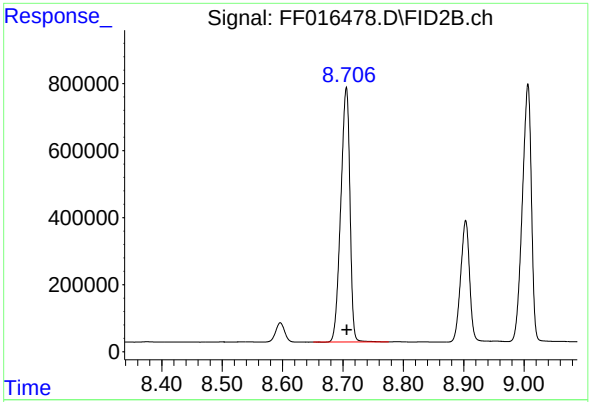
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.398 min
Delta R.T.: -0.003 min
Response: 7144507
Conc: 48.53 ug/ml



#4 2-Bromonaphthalene (SURR)

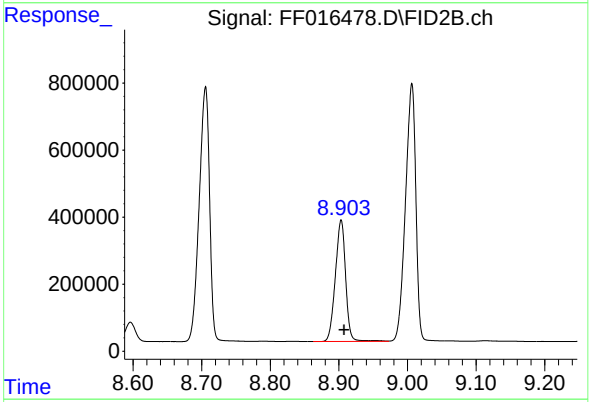
R.T.: 8.027 min
Delta R.T.: -0.003 min
Response: 6177103
Conc: 49.31 ug/ml



#5 Acenaphthylene (C15.06)

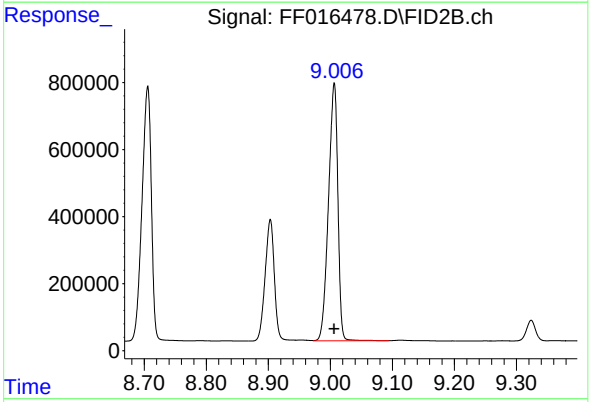
R.T.: 8.705 min
Delta R.T.: 0.000 min
Response: 7976442
Conc: 55.04 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MSD



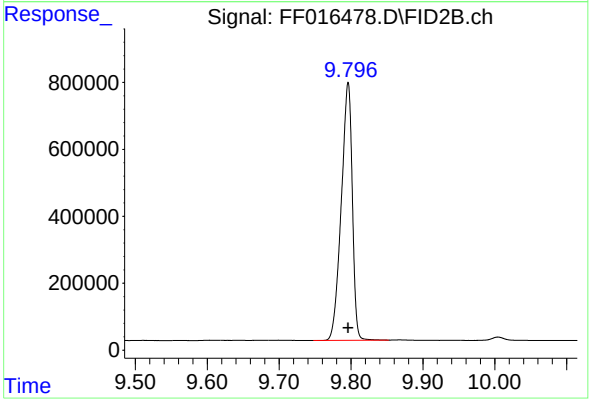
#6 2-Flurobiphenyl (SURR)

R.T.: 8.903 min
Delta R.T.: -0.004 min
Response: 3780657
Conc: 44.83 ug/ml



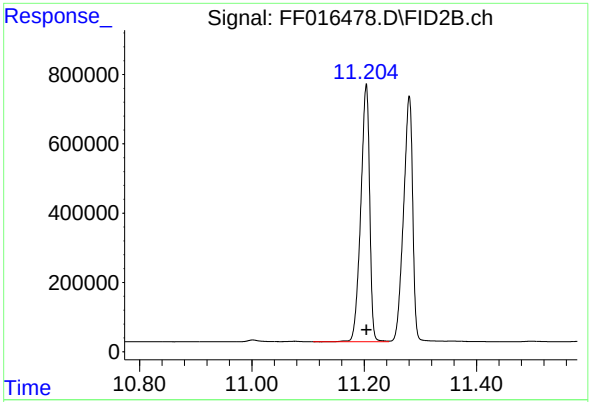
#7 Acenaphthene (C15.5)

R.T.: 9.006 min
Delta R.T.: 0.000 min
Response: 8085770
Conc: 56.38 ug/ml



#8 Flouorene (C16.55)

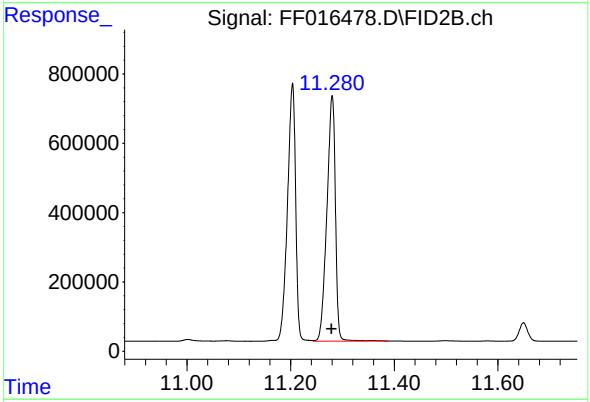
R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 8201591
Conc: 56.77 ug/ml



#9 Phenanthrene (C19.36)

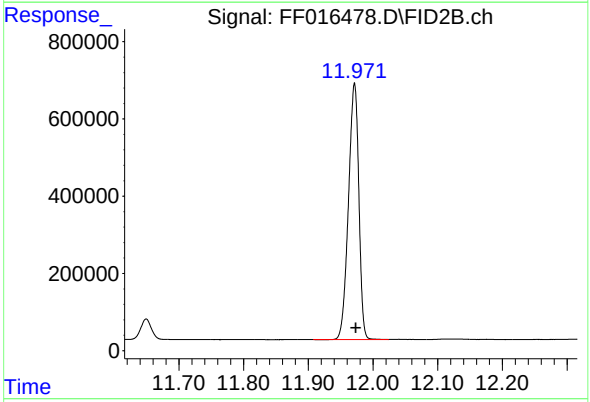
R.T.: 11.203 min
Delta R.T.: 0.000 min
Response: 8133608
Conc: 55.76 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MSD



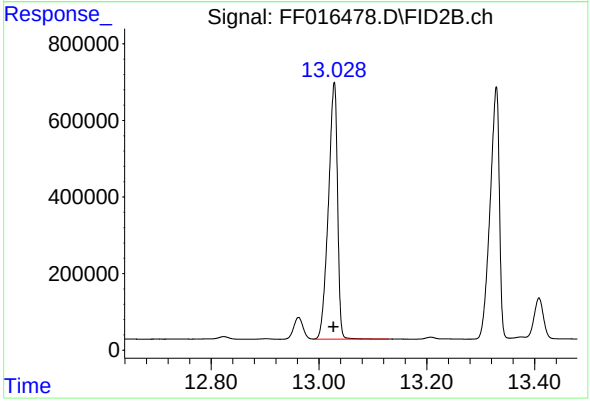
#10 Anthracene (C19.43)

R.T.: 11.280 min
Delta R.T.: 0.001 min
Response: 8088666
Conc: 56.54 ug/ml



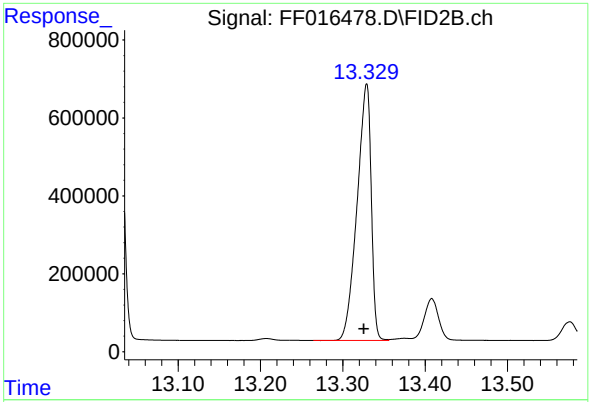
#11 ortho-Terphenyl (SURR)

R.T.: 11.971 min
Delta R.T.: -0.002 min
Response: 7387930
Conc: 48.46 ug/ml



#12 Fluoranthene (C21.85)

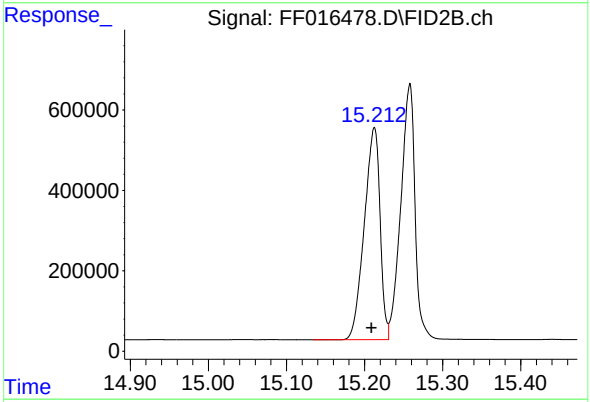
R.T.: 13.028 min
Delta R.T.: 0.001 min
Response: 7912752
Conc: 54.18 ug/ml



#13 Pyrene (C20.8)

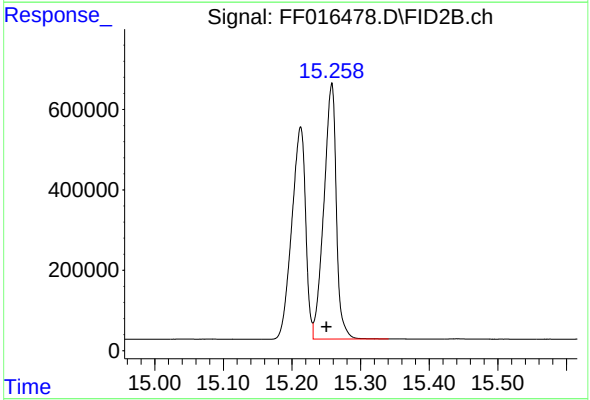
R.T.: 13.328 min
Delta R.T.: 0.003 min
Response: 7861443
Conc: 54.86 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MSD



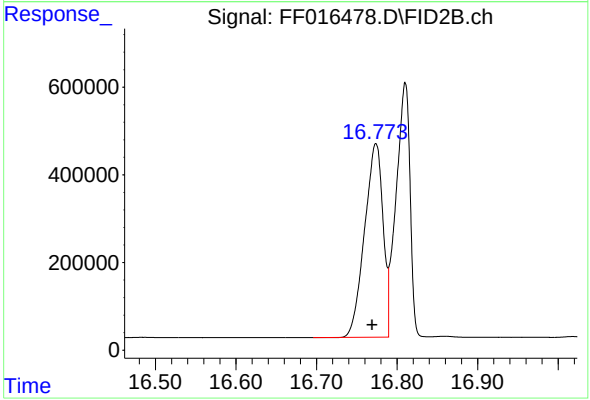
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.212 min
Delta R.T.: 0.003 min
Response: 7393494
Conc: 54.32 ug/ml



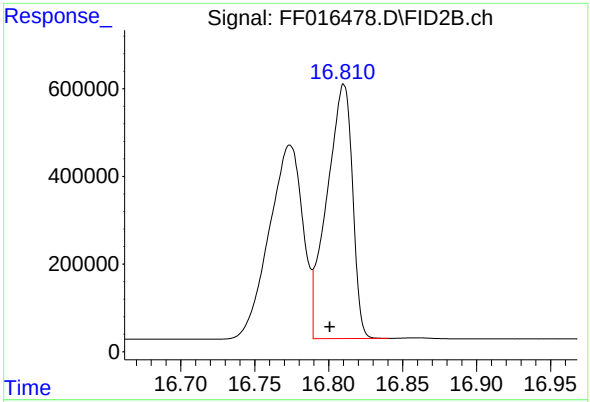
#15 Chrysene (C27.41)

R.T.: 15.257 min
Delta R.T.: 0.007 min
Response: 8048520
Conc: 56.42 ug/ml



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

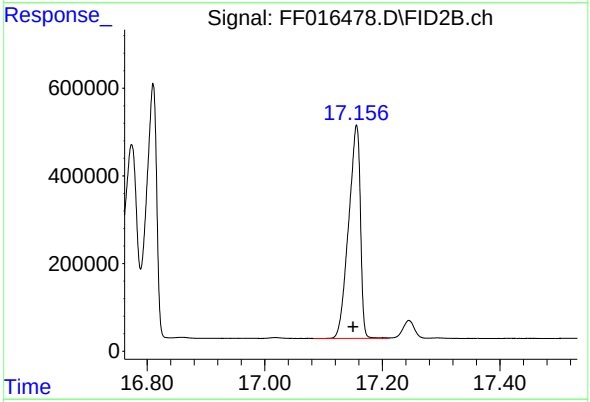
R.T.: 16.774 min
Delta R.T.: 0.005 min
Response: 7026231
Conc: 53.47 ug/ml



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

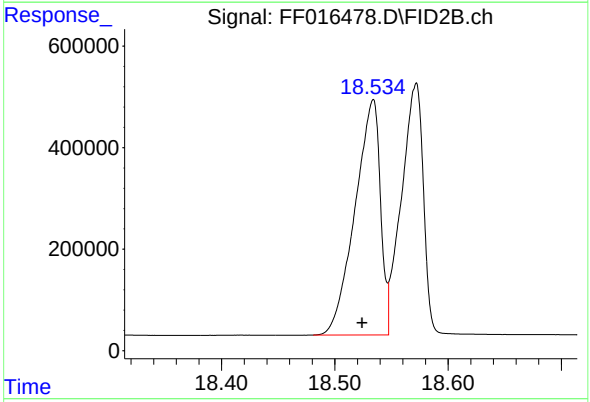
R.T.: 16.810 min
Delta R.T.: 0.009 min
Response: 6974796
Conc: 55.41 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MSD



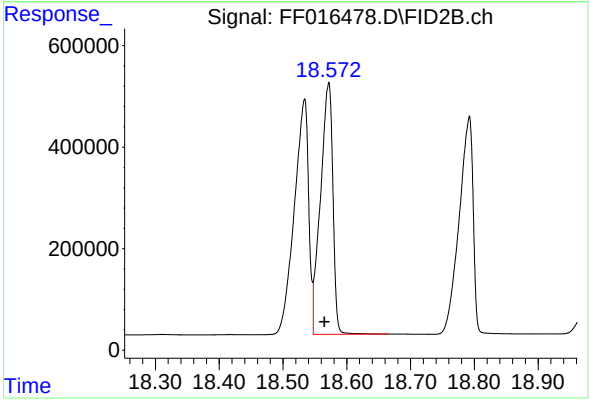
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.156 min
Delta R.T.: 0.006 min
Response: 6759084
Conc: 52.93 ug/ml



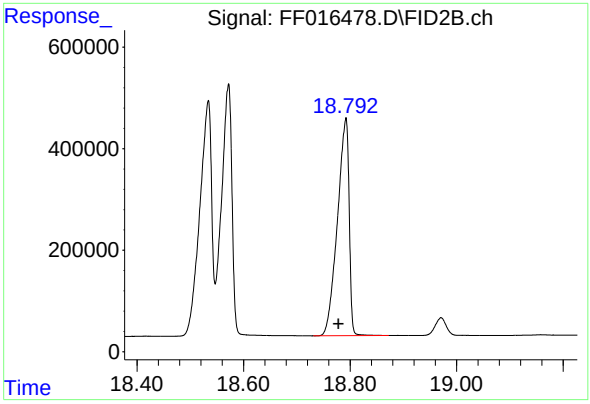
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.533 min
Delta R.T.: 0.009 min
Response: 7230058
Conc: 63.40 ug/ml



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

R.T.: 18.571 min
Delta R.T.: 0.006 min
Response: 6691161
Conc: 51.25 ug/ml



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

R.T.:	18.791 min
Delta R.T.:	0.013 min
Response:	6530278
Conc:	53.03 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MSD

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016478.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 20:33
Sample : Q3179-03MSD
Misc :
ALS Vial : 89 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.452	4.411	4.462	BV	282	1890	0.02%	0.001%
2	4.471	4.462	4.487	VV	338	2885	0.03%	0.002%
3	4.501	4.487	4.519	VV	349	3763	0.05%	0.002%
4	4.525	4.519	4.559	VV	201	1685	0.02%	0.001%
5	4.586	4.559	4.600	PV	58183	536577	6.49%	0.322%
6	4.621	4.600	4.653	VV	684782	6527251	78.90%	3.922%
7	4.658	4.653	4.676	VV	2412	25414	0.31%	0.015%
8	4.694	4.676	4.715	VV	5436	64680	0.78%	0.039%
9	4.738	4.715	4.754	VV	9412	104524	1.26%	0.063%
10	4.766	4.754	4.796	VV	4327	53663	0.65%	0.032%
11	4.805	4.796	4.822	VV	543	6717	0.08%	0.004%
12	4.839	4.822	4.857	VV	879	11339	0.14%	0.007%
13	4.871	4.857	4.894	VV	1329	14995	0.18%	0.009%
14	4.908	4.894	4.923	VV	424	5619	0.07%	0.003%
15	4.947	4.923	4.961	VV	580	9710	0.12%	0.006%
16	4.972	4.961	4.987	VV	512	6936	0.08%	0.004%
17	5.026	4.987	5.060	VV	1344	26734	0.32%	0.016%
18	5.082	5.060	5.138	VV	1437	21733	0.26%	0.013%
19	5.163	5.138	5.191	VV	1335	20934	0.25%	0.013%
20	5.204	5.191	5.219	VV	566	8091	0.10%	0.005%
21	5.229	5.219	5.249	VV	493	6358	0.08%	0.004%
22	5.289	5.249	5.323	VV	4414	79958	0.97%	0.048%
23	5.351	5.323	5.357	VV	1799	21682	0.26%	0.013%
24	5.373	5.357	5.406	VV	15245	163633	1.98%	0.098%
25	5.427	5.406	5.454	VV	2560	35723	0.43%	0.021%

rteres

26	5.474	5.454	5.489	VV	816	15325	0.19%	0.009%
27	5.495	5.489	5.509	VV	640	6924	0.08%	0.004%
28	5.527	5.509	5.574	VV	2705	40842	0.49%	0.025%
29	5.597	5.574	5.641	VV	1166	24448	0.30%	0.015%
30	5.657	5.641	5.679	VV	1591	22914	0.28%	0.014%
31	5.688	5.679	5.710	VV	914	10673	0.13%	0.006%
32	5.725	5.710	5.746	VV	952	12517	0.15%	0.008%
33	5.773	5.746	5.792	VV	1808	23044	0.28%	0.014%
34	5.805	5.792	5.814	VV	438	4655	0.06%	0.003%
35	5.829	5.814	5.846	VV	537	7811	0.09%	0.005%
36	5.873	5.846	5.887	VV	616	11094	0.13%	0.007%
37	5.893	5.887	5.909	VV	522	6024	0.07%	0.004%
38	5.920	5.909	5.940	VV	453	6179	0.07%	0.004%
39	5.950	5.940	5.967	VV	280	3517	0.04%	0.002%
40	5.998	5.967	6.011	VV	487	9162	0.11%	0.006%
41	6.020	6.011	6.030	VV	230	2265	0.03%	0.001%
42	6.041	6.030	6.065	VV	343	4576	0.06%	0.003%
43	6.078	6.065	6.107	VV	706	9894	0.12%	0.006%
44	6.123	6.107	6.141	VV	384	5014	0.06%	0.003%
45	6.155	6.141	6.173	VV	265	4128	0.05%	0.002%
46	6.195	6.173	6.234	VV	838	14694	0.18%	0.009%
47	6.240	6.234	6.252	VV	230	1710	0.02%	0.001%
48	6.298	6.252	6.344	VV	758292	7459677	90.17%	4.482%
49	6.349	6.344	6.387	VV	2737	49798	0.60%	0.030%
50	6.405	6.387	6.436	VV	1659	32676	0.39%	0.020%
51	6.440	6.436	6.457	VV	725	8246	0.10%	0.005%
52	6.472	6.457	6.502	VV	832	16809	0.20%	0.010%
53	6.541	6.502	6.573	VV	1727	35035	0.42%	0.021%
54	6.592	6.573	6.610	VV	1154	15905	0.19%	0.010%
55	6.625	6.610	6.639	VV	1106	12680	0.15%	0.008%
56	6.661	6.639	6.708	VV	885	18593	0.22%	0.011%
57	6.720	6.708	6.732	VV	343	3603	0.04%	0.002%
58	6.762	6.732	6.792	VV	59090	599837	7.25%	0.360%
59	6.819	6.792	6.831	VV	669	11922	0.14%	0.007%
60	6.850	6.831	6.871	VV	772	11912	0.14%	0.007%
61	6.884	6.871	6.894	VV	710	7369	0.09%	0.004%
62	6.915	6.894	6.961	VV	2728	47645	0.58%	0.029%
63	6.982	6.961	7.004	VV	1734	25999	0.31%	0.016%
64	7.019	7.004	7.036	VV	1305	17013	0.21%	0.010%
65	7.054	7.036	7.076	VV	2726	32823	0.40%	0.020%
66	7.081	7.076	7.126	VV	408	5080	0.06%	0.003%
67	7.137	7.126	7.150	VV	151	1389	0.02%	0.001%
68	7.167	7.150	7.173	VV	125	1026	0.01%	0.001%
69	7.194	7.173	7.230	VV	2856	41763	0.50%	0.025%

70	7.246	7.230	7.264	VV	3551	40454	0.49%	0.024%
71	7.298	7.264	7.312	VV	14804	165192	2.00%	0.099%
72	7.323	7.312	7.359	VV	11041	123710	1.50%	0.074%
73	7.399	7.359	7.456	VV	717629	7226324	87.35%	4.342%
74	7.466	7.456	7.501	VV	2793	47823	0.58%	0.029%
75	7.533	7.501	7.551	VV	3075	48090	0.58%	0.029%
76	7.569	7.551	7.584	VV	4014	49451	0.60%	0.030%
77	7.597	7.584	7.611	VV	2923	36329	0.44%	0.022%
78	7.625	7.611	7.643	VV	2290	31699	0.38%	0.019%
79	7.648	7.643	7.661	VV	1145	11101	0.13%	0.007%
80	7.675	7.661	7.690	VV	1944	23074	0.28%	0.014%
81	7.708	7.690	7.727	VV	1563	23216	0.28%	0.014%
82	7.767	7.727	7.791	VV	6050	82470	1.00%	0.050%
83	7.812	7.791	7.852	VV	5027	73362	0.89%	0.044%
84	7.883	7.852	7.911	VV	1936	35234	0.43%	0.021%
85	7.936	7.911	7.957	VV	839	17867	0.22%	0.011%
86	7.978	7.957	7.992	VV	1573	20759	0.25%	0.012%
87	8.027	7.992	8.108	VV	623189	6241362	75.44%	3.750%
88	8.127	8.108	8.169	VV	2102	53061	0.64%	0.032%
89	8.175	8.169	8.187	VV	894	8885	0.11%	0.005%
90	8.208	8.187	8.241	VV	1638	32960	0.40%	0.020%
91	8.246	8.241	8.261	VV	570	6268	0.08%	0.004%
92	8.288	8.261	8.332	VV	1050	26562	0.32%	0.016%
93	8.343	8.332	8.355	VV	528	5776	0.07%	0.003%
94	8.376	8.355	8.404	VV	1393	22178	0.27%	0.013%
95	8.412	8.404	8.429	VV	577	7253	0.09%	0.004%
96	8.437	8.429	8.442	VV	477	3101	0.04%	0.002%
97	8.451	8.442	8.464	VV	504	5487	0.07%	0.003%
98	8.501	8.464	8.517	VV	863	19636	0.24%	0.012%
99	8.537	8.517	8.566	VV	1147	22984	0.28%	0.014%
100	8.596	8.566	8.644	VV	58330	614699	7.43%	0.369%
101	8.654	8.644	8.671	VV	386	4688	0.06%	0.003%
102	8.706	8.671	8.776	VV	760953	8024222	97.00%	4.822%
103	8.792	8.776	8.817	VV	1399	26297	0.32%	0.016%
104	8.834	8.817	8.869	VV	1047	21968	0.27%	0.013%
105	8.903	8.869	8.945	VV	363588	3773915	45.62%	2.268%
106	8.954	8.945	8.972	VV	3417	46219	0.56%	0.028%
107	9.006	8.972	9.057	VV	769932	8125639	98.22%	4.882%
108	9.062	9.057	9.093	VV	2498	40381	0.49%	0.024%
109	9.113	9.093	9.187	VV	2971	88729	1.07%	0.053%
110	9.198	9.187	9.214	VV	776	10610	0.13%	0.006%
111	9.227	9.214	9.233	VV	614	6335	0.08%	0.004%
112	9.250	9.233	9.264	VV	800	12801	0.15%	0.008%

rteres

113	9.277	9.264	9.295	VV	1269	17744	0.21%	0.011%
114	9.324	9.295	9.350	VV	62517	642825	7.77%	0.386%
115	9.361	9.350	9.411	VV	1651	43721	0.53%	0.026%
116	9.440	9.411	9.469	VV	2927	51995	0.63%	0.031%
117	9.472	9.469	9.492	VV	705	7077	0.09%	0.004%
118	9.511	9.492	9.546	VV	868	15944	0.19%	0.010%
119	9.561	9.546	9.583	VV	602	8732	0.11%	0.005%
120	9.605	9.583	9.634	VV	1267	26914	0.33%	0.016%
121	9.644	9.634	9.657	VV	971	11926	0.14%	0.007%
122	9.669	9.657	9.681	VV	980	12594	0.15%	0.008%
123	9.700	9.681	9.745	VV	1289	34016	0.41%	0.020%
124	9.796	9.745	9.853	VV	772155	8272779	100.00%	4.971%
125	9.867	9.853	9.902	VV	2356	49484	0.60%	0.030%
126	9.909	9.902	9.922	VV	1046	11578	0.14%	0.007%
127	9.943	9.922	9.967	VV	1264	26926	0.33%	0.016%
128	10.004	9.967	10.069	VV	10820	164579	1.99%	0.099%
129	10.086	10.069	10.106	VV	724	13229	0.16%	0.008%
130	10.121	10.106	10.158	VV	777	18048	0.22%	0.011%
131	10.203	10.158	10.257	VV	56510	632145	7.64%	0.380%
132	10.300	10.257	10.351	VV	876	27895	0.34%	0.017%
133	10.374	10.351	10.400	VV	593	12070	0.15%	0.007%
134	10.408	10.400	10.418	VV	308	2752	0.03%	0.002%
135	10.430	10.418	10.463	VV	386	6881	0.08%	0.004%
136	10.485	10.463	10.498	VV	687	9286	0.11%	0.006%
137	10.510	10.498	10.517	VV	554	5524	0.07%	0.003%
138	10.534	10.517	10.544	VV	601	8728	0.11%	0.005%
139	10.568	10.544	10.587	VV	1337	22319	0.27%	0.013%
140	10.599	10.587	10.618	VV	782	11425	0.14%	0.007%
141	10.636	10.618	10.656	VV	691	11435	0.14%	0.007%
142	10.675	10.656	10.702	VV	467	9482	0.11%	0.006%
143	10.723	10.702	10.744	VV	820	14737	0.18%	0.009%
144	10.760	10.744	10.778	VV	545	8147	0.10%	0.005%
145	10.795	10.778	10.799	VV	580	5930	0.07%	0.004%
146	10.823	10.799	10.838	VV	598	13257	0.16%	0.008%
147	10.843	10.838	10.862	VV	582	6964	0.08%	0.004%
148	10.882	10.862	10.885	VV	606	6460	0.08%	0.004%
149	10.892	10.885	10.914	VV	636	8984	0.11%	0.005%
150	10.920	10.914	10.926	VV	488	3222	0.04%	0.002%
151	10.929	10.926	10.934	VV	436	2143	0.03%	0.001%
152	10.947	10.934	10.976	VV	712	14321	0.17%	0.009%
153	11.002	10.976	11.052	VV	5504	93445	1.13%	0.056%
154	11.077	11.052	11.124	VV	1706	36707	0.44%	0.022%
155	11.204	11.124	11.244	VV	745164	8173826	98.80%	4.911%

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156	11.280	11.244	11.346	VV	710127	8109529	98.03%	4.873%
157	11.355	11.346	11.390	VV	2338	48374	0.58%	0.029%
158	11.405	11.390	11.432	VV	1108	22754	0.28%	0.014%
159	11.449	11.432	11.465	VV	674	12003	0.15%	0.007%
160	11.496	11.465	11.559	VV	1907	53115	0.64%	0.032%
161	11.580	11.559	11.606	VV	1396	24051	0.29%	0.014%
162	11.649	11.606	11.712	VV	53882	643614	7.78%	0.387%
163	11.726	11.712	11.764	VV	597	14516	0.18%	0.009%
164	11.784	11.764	11.797	VV	493	7002	0.08%	0.004%
165	11.815	11.797	11.844	VV	557	10300	0.12%	0.006%
166	11.892	11.844	11.923	VV	503	15598	0.19%	0.009%
167	11.972	11.923	12.024	VV	664274	7419408	89.68%	4.458%
168	12.040	12.024	12.086	VV	1100	26338	0.32%	0.016%
169	12.113	12.086	12.122	VV	1805	27468	0.33%	0.017%
170	12.133	12.122	12.164	VV	1788	31462	0.38%	0.019%
171	12.176	12.164	12.204	VV	1056	16491	0.20%	0.010%
172	12.208	12.204	12.211	VV	362	1328	0.02%	0.001%
173	12.222	12.211	12.234	VV	478	6059	0.07%	0.004%
174	12.254	12.234	12.271	VV	762	13052	0.16%	0.008%
175	12.315	12.271	12.347	VV	1335	39026	0.47%	0.023%
176	12.373	12.347	12.395	VV	6369	85557	1.03%	0.051%
177	12.412	12.395	12.438	VV	2510	33802	0.41%	0.020%
178	12.456	12.438	12.468	VV	547	7815	0.09%	0.005%
179	12.480	12.468	12.505	VV	631	9939	0.12%	0.006%
180	12.544	12.505	12.557	VV	1271	25241	0.31%	0.015%
181	12.570	12.557	12.636	VV	2219	54849	0.66%	0.033%
182	12.648	12.636	12.671	VV	755	11837	0.14%	0.007%
183	12.698	12.671	12.714	VV	587	11673	0.14%	0.007%
184	12.749	12.714	12.764	VV	743	17545	0.21%	0.011%
185	12.823	12.764	12.852	VV	7112	115001	1.39%	0.069%
186	12.860	12.852	12.878	VV	435	5554	0.07%	0.003%
187	12.903	12.878	12.929	VV	1667	22420	0.27%	0.013%
188	12.962	12.929	12.989	VV	57180	693372	8.38%	0.417%
189	13.028	12.989	13.174	VV	673601	7958059	96.20%	4.782%
190	13.207	13.174	13.230	VV	5556	76133	0.92%	0.046%
191	13.237	13.230	13.272	VV	1088	18859	0.23%	0.011%
192	13.329	13.272	13.354	VV	660485	7886077	95.33%	4.739%
193	13.375	13.354	13.382	VV	6154	80181	0.97%	0.048%
194	13.408	13.382	13.485	VV	108163	1353486	16.36%	0.813%
195	13.503	13.485	13.537	VV	825	19124	0.23%	0.011%
196	13.576	13.537	13.610	VV	48592	628601	7.60%	0.378%
197	13.629	13.610	13.676	VV	3913	63089	0.76%	0.038%
198	13.696	13.676	13.722	VV	682	15142	0.18%	0.009%
199	13.728	13.722	13.735	VV	479	3226	0.04%	0.002%

200	13.776	13.735	13.801	VV	795	24582	0.30%	0.015%
201	13.813	13.801	13.827	VV	1262	17491	0.21%	0.011%
202	13.833	13.827	13.894	VV	1227	37614	0.45%	0.023%
203	13.921	13.894	13.942	VV	729	16296	0.20%	0.010%
204	13.960	13.942	13.966	VV	565	7198	0.09%	0.004%
205	13.982	13.966	13.993	VV	599	9053	0.11%	0.005%
206	14.026	13.993	14.056	VV	1103	24546	0.30%	0.015%
207	14.071	14.056	14.087	VV	470	7359	0.09%	0.004%
208	14.113	14.087	14.133	VV	1495	25501	0.31%	0.015%
209	14.163	14.133	14.211	VV	48096	615182	7.44%	0.370%
210	14.226	14.211	14.248	VV	384	6262	0.08%	0.004%
211	14.261	14.248	14.275	VV	178	1983	0.02%	0.001%
212	14.284	14.275	14.311	VV	184	1960	0.02%	0.001%
213	14.331	14.311	14.357	PV	139	1925	0.02%	0.001%
214	14.391	14.357	14.426	VV	336	7994	0.10%	0.005%
215	14.429	14.426	14.442	VV	198	1216	0.01%	0.001%
216	14.454	14.442	14.481	VV	237	3585	0.04%	0.002%
217	14.504	14.481	14.525	VV	321	4919	0.06%	0.003%
218	14.559	14.537	14.565	VV	170	1798	0.02%	0.001%
219	14.602	14.565	14.639	VV	13775	183933	2.22%	0.111%
220	14.646	14.639	14.652	VV	399	3108	0.04%	0.002%
221	14.658	14.652	14.682	VV	443	5848	0.07%	0.004%
222	14.692	14.682	14.699	VV	278	1959	0.02%	0.001%
223	14.706	14.699	14.711	VV	218	1250	0.02%	0.001%
224	14.727	14.711	14.753	VV	426	7395	0.09%	0.004%
225	14.789	14.753	14.801	VV	574	8089	0.10%	0.005%
226	14.822	14.801	14.850	VV	441	9200	0.11%	0.006%
227	14.869	14.850	14.905	VV	368	10237	0.12%	0.006%
228	14.937	14.905	14.962	VV	472	10372	0.13%	0.006%
229	14.967	14.962	14.974	VV	250	1488	0.02%	0.001%
230	14.989	14.974	15.006	VV	294	4261	0.05%	0.003%
231	15.042	15.006	15.064	VV	516	12112	0.15%	0.007%
232	15.079	15.064	15.100	VV	440	7154	0.09%	0.004%
233	15.111	15.100	15.142	VV	309	4542	0.05%	0.003%
234	15.213	15.163	15.231	PV	528581	7409294	89.56%	4.452%
235	15.258	15.231	15.340	VV	634262	8093457	97.83%	4.863%
236	15.350	15.340	15.401	VV	1035	24290	0.29%	0.015%
237	15.411	15.401	15.416	VV	448	3526	0.04%	0.002%
238	15.441	15.416	15.464	VV	1125	20782	0.25%	0.012%
239	15.469	15.464	15.497	VV	522	7628	0.09%	0.005%
240	15.505	15.497	15.528	VV	322	5160	0.06%	0.003%
241	15.533	15.528	15.554	VV	237	2802	0.03%	0.002%
242	15.576	15.561	15.599	VV	342	4897	0.06%	0.003%

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243	15.634	15.599	15.668	VV	1934	31118	0.38%	0.019%
244	15.687	15.668	15.731	VV	579	12866	0.16%	0.008%
245	15.742	15.731	15.751	VV	296	2942	0.04%	0.002%
246	15.757	15.751	15.764	VV	282	1995	0.02%	0.001%
247	15.809	15.764	15.862	VV	11043	154868	1.87%	0.093%
248	15.878	15.862	15.883	VV	288	3008	0.04%	0.002%
249	15.916	15.883	15.956	VV	431	15069	0.18%	0.009%
250	15.998	15.956	16.030	VV	648	20249	0.24%	0.012%
251	16.043	16.030	16.047	VV	334	2933	0.04%	0.002%
252	16.055	16.047	16.080	VV	304	5454	0.07%	0.003%
253	16.097	16.080	16.105	VV	357	4072	0.05%	0.002%
254	16.113	16.105	16.131	VV	449	5833	0.07%	0.004%
255	16.159	16.131	16.186	VV	541	13435	0.16%	0.008%
256	16.190	16.186	16.195	VV	286	1288	0.02%	0.001%
257	16.223	16.195	16.229	VV	273	4764	0.06%	0.003%
258	16.254	16.229	16.263	VV	592	8412	0.10%	0.005%
259	16.294	16.263	16.330	VV	42261	559515	6.76%	0.336%
260	16.345	16.330	16.390	VV	386	7941	0.10%	0.005%
261	16.406	16.390	16.422	VV	212	2977	0.04%	0.002%
262	16.436	16.422	16.454	VV	200	2621	0.03%	0.002%
263	16.487	16.454	16.513	VV	758	12967	0.16%	0.008%
264	16.539	16.513	16.559	VV	230	3606	0.04%	0.002%
265	16.586	16.568	16.591	VV	139	1084	0.01%	0.001%
266	16.604	16.597	16.658	VV	128	3200	0.04%	0.002%
267	16.675	16.669	16.695	VV	188	1004	0.01%	0.001%
268	16.774	16.720	16.789	VV	442693	7038128	85.08%	4.229%
269	16.810	16.789	16.840	VV	581915	7041078	85.11%	4.231%
270	16.860	16.840	16.904	VV	2990	60868	0.74%	0.037%
271	16.908	16.904	16.911	VV	631	2757	0.03%	0.002%
272	16.916	16.911	16.928	VV	630	5691	0.07%	0.003%
273	16.932	16.928	16.941	VV	555	4297	0.05%	0.003%
274	16.946	16.941	16.957	VV	528	5084	0.06%	0.003%
275	16.968	16.957	16.992	VV	572	10812	0.13%	0.006%
276	17.018	16.992	17.059	VV	2328	40153	0.49%	0.024%
277	17.074	17.059	17.097	VV	426	8266	0.10%	0.005%
278	17.156	17.097	17.211	VV	487471	6792452	82.11%	4.081%
279	17.245	17.211	17.278	VV	41142	572176	6.92%	0.344%
280	17.293	17.278	17.324	VV	1420	21942	0.27%	0.013%
281	17.326	17.324	17.339	VV	276	1753	0.02%	0.001%
282	17.348	17.339	17.380	VV	236	4290	0.05%	0.003%
283	17.396	17.389	17.404	VV	145	1137	0.01%	0.001%
284	17.417	17.404	17.422	VV	293	2412	0.03%	0.001%
285	17.426	17.422	17.441	VV	262	1850	0.02%	0.001%

rteres

286	17.447	17.441	17.476	VV	229	2837	0.03%	0.002%
287	17.519	17.493	17.534	PV	373	5626	0.07%	0.003%
288	17.570	17.534	17.599	VV	379	8460	0.10%	0.005%
289	17.657	17.599	17.676	PV	565	9970	0.12%	0.006%
290	17.698	17.676	17.741	VV	1038	15901	0.19%	0.010%
291	17.767	17.741	17.773	PV	211	1683	0.02%	0.001%
292	17.801	17.773	17.829	VV	396	8074	0.10%	0.005%
293	17.844	17.829	17.849	VV	187	1776	0.02%	0.001%
294	17.859	17.849	17.864	VV	175	1248	0.02%	0.001%
295	17.913	17.864	17.943	VV	340	9318	0.11%	0.006%
296	17.980	17.943	17.986	VV	329	5387	0.07%	0.003%
297	18.028	17.986	18.045	VV	539	13393	0.16%	0.008%
298	18.062	18.045	18.078	VV	744	10034	0.12%	0.006%
299	18.137	18.078	18.184	VV	37708	535610	6.47%	0.322%
300	18.192	18.184	18.207	VV	158	1606	0.02%	0.001%
301	18.228	18.207	18.239	VV	205	2498	0.03%	0.002%
302	18.248	18.239	18.258	VV	166	1364	0.02%	0.001%
303	18.312	18.258	18.362	VV	864	19375	0.23%	0.012%
304	18.417	18.384	18.451	PV	390	7291	0.09%	0.004%
305	18.534	18.451	18.547	PV	465150	7238439	87.50%	4.349%
306	18.572	18.547	18.671	VV	499407	6743815	81.52%	4.052%
307	18.676	18.671	18.734	VV	747	14066	0.17%	0.008%
308	18.792	18.734	18.851	PBA	430168	6517391	78.78%	3.916%

Sum of corrected areas: 166423912

Aromatic EPH 092425.M Tue Sep 30 01:32:31 2025

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

Manual Integration Report

Sequence:	FC092325AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	FC100125AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB169879BS	FC069878.D	n-Dotriacontane (C32)	yogesh	10/1/2025 7:30:26 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
PB169879BS	FC069878.D	n-Octatriacontane (C38)	yogesh	10/1/2025 7:30:26 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069882.D	n-Dotriacontane (C32)	yogesh	10/1/2025 7:30:28 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069882.D	n-Octatriacontane (C38)	yogesh	10/1/2025 7:30:28 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
PB169910BS	FC069884.D	n-Dotriacontane (C32)	yogesh	10/1/2025 7:30:30 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
PB169910BS	FC069884.D	n-Octacosane (C28)	yogesh	10/1/2025 7:30:30 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
PB169910BS	FC069884.D	n-Octatriacontane (C38)	yogesh	10/1/2025 7:30:30 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
PB169910BSD	FC069885.D	n-Dotriacontane (C32)	yogesh	10/1/2025 7:30:32 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
PB169910BSD	FC069885.D	n-Octacosane (C28)	yogesh	10/1/2025 7:30:32 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
PB169910BSD	FC069885.D	n-Octatriacontane (C38)	yogesh	10/1/2025 7:30:32 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
Q3245-01MS	FC069888.D	n-Dotriacontane (C32)	yogesh	10/1/2025 7:30:33 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
Q3245-01MS	FC069888.D	n-Octacosane (C28)	yogesh	10/1/2025 7:30:33 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
Q3245-01MS	FC069888.D	n-Octatriacontane (C38)	yogesh	10/1/2025 7:30:33 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC100125AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3245-01MSD	FC069889.D	n-Dotriacontane (C32)	yogesh	10/1/2025 7:30:35 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
Q3245-01MSD	FC069889.D	n-Octacosane (C28)	yogesh	10/1/2025 7:30:35 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
Q3245-01MSD	FC069889.D	n-Octatriacontane (C38)	yogesh	10/1/2025 7:30:35 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069891.D	n-Dotriacontane (C32)	yogesh	10/1/2025 7:30:37 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069891.D	n-Octatriacontane (C38)	yogesh	10/1/2025 7:30:37 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069891.D	n-Tetracontane (C40)	yogesh	10/1/2025 7:30:37 AM	mohammad	10/3/2025 1:30:03	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD090425AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
100 PPM AROMATIC HC	FD049718.D	Bnezo[k]fluoranthene (C30.14)	yogesh	9/5/2025 7:31:48 AM	mohammad	9/8/2025 4:38:38	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD093025AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	FE092425AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3168-03	FE055979.D	1-chlorooctadecane (SURR)	yogesh	9/25/2025 1:08:41 PM	mohammad	9/26/2025 4:25:44	Peak Integrated by Software
Q3168-03	FE055979.D	ortho-Terphenyl (SURR)	yogesh	9/25/2025 1:08:41 PM	mohammad	9/26/2025 4:25:44	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE092925AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FE056035.D	n-Octatriacontane (C38)	yogesh	9/29/2025 12:58:42 PM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3212-01DL	FE056042.D	ortho-Terphenyl (SURR)	yogesh	9/29/2025 4:40:13 PM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056045.D	n-Octatriacontane (C38)	yogesh	9/30/2025 7:44:43 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056045.D	n-Tetracontane (C40)	yogesh	9/30/2025 7:44:43 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3206-01	FE056048.D	1-chlorooctadecane (SURR)	yogesh	9/30/2025 7:44:44 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3206-02	FE056049.D	1-chlorooctadecane (SURR)	yogesh	9/30/2025 7:44:46 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3206-02	FE056049.D	ortho-Terphenyl (SURR)	yogesh	9/30/2025 7:44:46 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056059.D	1-chlorooctadecane (SURR)	yogesh	9/30/2025 7:45:02 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3221-01	FE056062.D	1-chlorooctadecane (SURR)	yogesh	9/30/2025 7:44:49 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3231-01	FE056066.D	1-chlorooctadecane (SURR)	yogesh	9/30/2025 7:44:51 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3231-06	FE056068.D	1-chlorooctadecane (SURR)	yogesh	9/30/2025 7:44:53 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3231-13	FE056071.D	ortho-Terphenyl (SURR)	yogesh	9/30/2025 11:00:46 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3231-14	FE056072.D	ortho-Terphenyl (SURR)	yogesh	9/30/2025 11:00:48 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE092925AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB169879BL	FE056073.D	1-chlorooctadecane (SURR)	yogesh	9/30/2025 11:00:50 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
PB169879BS	FE056074.D	n-Octatriacontane (C38)	yogesh	9/30/2025 11:00:51 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056077.D	n-Hexatriacontane (C36)	yogesh	9/30/2025 11:00:53 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056077.D	n-Octatriacontane (C38)	yogesh	9/30/2025 11:00:53 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software

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Manual Integration Report

Sequence:	FF092425AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	FF092925AR	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 # FC092325AL

Review By	yogesh	Review On	9/23/2025 12:34:12 PM		
Supervise By	mohammad	Supervise On	9/25/2025 2:25:00 AM		
SubDirectory	FC092325AL	HP Acquire Method		HP Processing Method	FC092325AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069823.D	23 Sep 2025 09:03	YP/AJ	Ok
2	I.BLK	FC069824.D	23 Sep 2025 09:47	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC069825.D	23 Sep 2025 10:31	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC069826.D	23 Sep 2025 11:16	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC069827.D	23 Sep 2025 12:02	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC069828.D	23 Sep 2025 12:47	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC069829.D	23 Sep 2025 13:33	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC069830.D	23 Sep 2025 14:19	YP/AJ	Ok
9	I.BLK	FC069831.D	23 Sep 2025 15:05	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC069832.D	23 Sep 2025 15:53	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC100125AL

Review By	yogesh	Review On	9/30/2025 10:26:16 AM		
Supervise By	mohammad	Supervise On	10/3/2025 1:30:03 AM		
SubDirectory	FC100125AL	HP Acquire Method		HP Processing Method	FC092325AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069872.D	30 Sep 2025 07:40	YP/AJ	Ok
2	I.BLK	FC069873.D	30 Sep 2025 08:21	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC069874.D	30 Sep 2025 09:04	YP/AJ	Ok
4	Q3177-02	FC069875.D	30 Sep 2025 09:46	YP/AJ	Ok
5	Q3177-03	FC069876.D	30 Sep 2025 10:29	YP/AJ	Ok
6	Q3177-01	FC069877.D	30 Sep 2025 11:12	YP/AJ	Ok
7	PB169879BS	FC069878.D	30 Sep 2025 11:56	YP/AJ	Ok,M
8	PB169879BL	FC069879.D	30 Sep 2025 12:39	YP/AJ	Ok
9	PB169879TB	FC069880.D	30 Sep 2025 13:22	YP/AJ	Ok
10	PB169879TB	FC069880.D	30 Sep 2025 13:22	YP/AJ	Ok
11	PB169879TB	FC069880.D	30 Sep 2025 13:22	YP/AJ	Ok
12	PB169879TB	FC069880.D	30 Sep 2025 13:22	YP/AJ	Ok
13	PB169879TB	FC069880.D	30 Sep 2025 13:22	YP/AJ	Ok
14	PB169879TB	FC069880.D	30 Sep 2025 13:22	YP/AJ	Ok
15	PB169879TB	FC069880.D	30 Sep 2025 13:22	YP/AJ	Ok
16	I.BLK	FC069881.D	30 Sep 2025 14:06	YP/AJ	Ok
17	20 PPM ALIPHATIC HC STD	FC069882.D	30 Sep 2025 14:50	YP/AJ	Ok,M
18	PB169910BL	FC069883.D	30 Sep 2025 15:34	YP/AJ	Ok
19	PB169910BS	FC069884.D	30 Sep 2025 16:19	YP/AJ	Ok,M
20	PB169910BSD	FC069885.D	30 Sep 2025 17:05	YP/AJ	Ok,M
21	Q3245-01	FC069886.D	30 Sep 2025 17:50	YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC100125AL

Review By	yogesh	Review On	9/30/2025 10:26:16 AM		
Supervise By	mohammad	Supervise On	10/3/2025 1:30:03 AM		
SubDirectory	FC100125AL	HP Acquire Method		HP Processing Method	FC092325AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3245-01D	FC069887.D	30 Sep 2025 18:36	YP/AJ	Ok
23	Q3245-01MS	FC069888.D	30 Sep 2025 19:21	YP/AJ	Ok,M
24	Q3245-01MSD	FC069889.D	30 Sep 2025 20:07	YP/AJ	Ok,M
25	I.BLK	FC069890.D	30 Sep 2025 21:38	YP/AJ	Ok
26	20 PPM ALIPHATIC HC STD	FC069891.D	30 Sep 2025 22:24	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD090425AR

Review By	yogesh	Review On	9/4/2025 10:41:46 AM		
Supervise By	mohammad	Supervise On	9/8/2025 4:38:38 AM		
SubDirectory	FD090425AR	HP Acquire Method		HP Processing Method	FD090425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049716.D	04 Sep 2025 08:15	YP/AJ	Ok
2	I.BLK	FD049717.D	04 Sep 2025 08:55	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD049718.D	04 Sep 2025 09:36	YP/AJ	Ok,M
4	50 PPM AROMATIC HC STD2	FD049719.D	04 Sep 2025 10:16	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD049720.D	04 Sep 2025 10:56	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD049721.D	04 Sep 2025 11:38	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD049722.D	04 Sep 2025 12:19	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD049723.D	04 Sep 2025 13:00	YP/AJ	Ok
9	I.BLK	FD049724.D	04 Sep 2025 14:24	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049725.D	04 Sep 2025 15:08	YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD093025AR

Review By	yogesh	Review On	9/30/2025 11:24:02 AM		
Supervise By	mohammad	Supervise On	10/3/2025 1:30:41 AM		
SubDirectory	FD093025AR	HP Acquire Method		HP Processing Method	FD090425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049775.D	30 Sep 2025 07:40	YP/AJ	Ok
2	I.BLK	FD049776.D	30 Sep 2025 08:21	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049777.D	30 Sep 2025 09:04	YP/AJ	Ok
4	Q3177-01	FD049778.D	30 Sep 2025 09:46	YP/AJ	Ok
5	I.BLK	FD049779.D	30 Sep 2025 10:29	YP/AJ	Ok
6	20 PPM AROMATIC HC STD	FD049780.D	30 Sep 2025 11:12	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE092425AL

Review By	yogesh	Review On	9/24/2025 11:25:42 AM		
Supervise By	mohammad	Supervise On	9/26/2025 4:25:44 AM		
SubDirectory	FE092425AL	HP Acquire Method		HP Processing Method	FE092425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE055960.D	24 Sep 2025 08:06	YP\AJ	Ok
2	I.BLK	FE055961.D	24 Sep 2025 08:36	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE055962.D	24 Sep 2025 09:07	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE055963.D	24 Sep 2025 09:37	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FE055964.D	24 Sep 2025 10:07	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE055965.D	24 Sep 2025 10:38	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FE055966.D	24 Sep 2025 11:08	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FE055967.D	24 Sep 2025 11:39	YP\AJ	Ok
9	I.BLK	FE055968.D	24 Sep 2025 12:09	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE055969.D	24 Sep 2025 12:40	YP\AJ	Ok
11	PB169809BL	FE055970.D	24 Sep 2025 14:27	YP\AJ	Ok
12	PB169809BS	FE055971.D	24 Sep 2025 14:58	YP\AJ	Ok
13	PB169809BS	FE055971.D	24 Sep 2025 14:58	YP\AJ	Ok
14	PB169809BS	FE055971.D	24 Sep 2025 14:58	YP\AJ	Ok
15	PB169809BS	FE055971.D	24 Sep 2025 14:58	YP\AJ	Ok
16	PB169809BS	FE055971.D	24 Sep 2025 14:58	YP\AJ	Ok
17	PB169809BS	FE055971.D	24 Sep 2025 14:58	YP\AJ	Ok
18	PB169809BS	FE055971.D	24 Sep 2025 14:58	YP\AJ	Ok
19	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok
20	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok
21	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE092425AL

Review By	yogesh	Review On	9/24/2025 11:25:42 AM		
Supervise By	mohammad	Supervise On	9/26/2025 4:25:44 AM		
SubDirectory	FE092425AL	HP Acquire Method		HP Processing Method	FE092425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok
23	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok
24	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok
25	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok
26	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok
27	Q3159-01	FE055973.D	24 Sep 2025 15:59	YP\AJ	Ok
28	Q3159-01D	FE055974.D	24 Sep 2025 16:29	YP\AJ	Ok
29	Q3159-01MS	FE055975.D	24 Sep 2025 17:00	YP\AJ	Ok
30	Q3159-01MSD	FE055976.D	24 Sep 2025 17:31	YP\AJ	Ok
31	Q3159-03	FE055977.D	24 Sep 2025 18:01	YP\AJ	Ok
32	Q3167-01	FE055978.D	24 Sep 2025 18:32	YP\AJ	Dilution
33	Q3168-03	FE055979.D	24 Sep 2025 19:03	YP\AJ	Dilution
34	I.BLK	FE055980.D	24 Sep 2025 20:04	YP\AJ	Ok
35	20 PPM ALIPHATIC HC STD	FE055981.D	24 Sep 2025 20:35	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE092925AL

Review By	yogesh	Review On	9/29/2025 10:09:20 AM		
Supervise By	mohammad	Supervise On	10/1/2025 1:40:41 AM		
SubDirectory	FE092925AL	HP Acquire Method		HP Processing Method	FE092425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE056033.D	29 Sep 2025 08:16	YP\AJ	Ok
2	I.BLK	FE056034.D	29 Sep 2025 08:47	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE056035.D	29 Sep 2025 09:17	YP\AJ	Ok,M
4	Q3209-01	FE056036.D	29 Sep 2025 09:47	YP\AJ	Dilution
5	Q3209-02	FE056037.D	29 Sep 2025 10:18	YP\AJ	Dilution
6	Q3212-01	FE056038.D	29 Sep 2025 10:48	YP\AJ	Dilution
7	Q3212-02	FE056039.D	29 Sep 2025 11:18	YP\AJ	Dilution
8	Q3209-01DL	FE056040.D	29 Sep 2025 11:49	YP\AJ	Ok
9	Q3209-02DL	FE056041.D	29 Sep 2025 12:19	YP\AJ	Ok
10	Q3212-01DL	FE056042.D	29 Sep 2025 12:49	YP\AJ	Ok,M
11	Q3212-02DL	FE056043.D	29 Sep 2025 13:20	YP\AJ	Ok
12	I.BLK	FE056044.D	29 Sep 2025 14:21	YP\AJ	Ok
13	20 PPM ALIPHATIC HC STD	FE056045.D	29 Sep 2025 14:51	YP\AJ	Ok,M
14	Q3200-01	FE056046.D	29 Sep 2025 15:22	YP\AJ	Ok
15	Q3200-02	FE056047.D	29 Sep 2025 15:52	YP\AJ	Ok
16	Q3206-01	FE056048.D	29 Sep 2025 16:23	YP\AJ	Ok,M
17	Q3206-02	FE056049.D	29 Sep 2025 16:53	YP\AJ	Dilution
18	Q3208-03	FE056050.D	29 Sep 2025 17:23	YP\AJ	Dilution
19	Q3208-04	FE056051.D	29 Sep 2025 17:54	YP\AJ	Dilution
20	Q3177-01	FE056052.D	29 Sep 2025 18:25	YP\AJ	Not Ok
21	Q3177-02	FE056053.D	29 Sep 2025 18:55	YP\AJ	Not Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE092925AL

Review By	yogesh	Review On	9/29/2025 10:09:20 AM		
Supervise By	mohammad	Supervise On	10/1/2025 1:40:41 AM		
SubDirectory	FE092925AL	HP Acquire Method		HP Processing Method	FE092425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3177-03	FE056054.D	29 Sep 2025 19:26	YP\AJ	Not Ok
23	Q3179-01	FE056055.D	29 Sep 2025 19:56	YP\AJ	Ok
24	Q3179-02	FE056056.D	29 Sep 2025 20:27	YP\AJ	Ok
25	Q3179-03	FE056057.D	29 Sep 2025 20:57	YP\AJ	Ok
26	I.BLK	FE056058.D	29 Sep 2025 21:58	YP\AJ	Ok
27	20 PPM ALIPHATIC HC STD	FE056059.D	29 Sep 2025 22:59	YP\AJ	Ok,M
28	Q3220-01	FE056060.D	29 Sep 2025 23:30	YP\AJ	Ok
29	Q3220-02	FE056061.D	30 Sep 2025 00:01	YP\AJ	Ok
30	Q3221-01	FE056062.D	30 Sep 2025 00:31	YP\AJ	Dilution
31	Q3221-02	FE056063.D	30 Sep 2025 01:02	YP\AJ	Dilution
32	Q3222-01	FE056064.D	30 Sep 2025 01:32	YP\AJ	Dilution
33	Q3222-02	FE056065.D	30 Sep 2025 02:02	YP\AJ	Dilution
34	Q3231-01	FE056066.D	30 Sep 2025 02:33	YP\AJ	Dilution
35	Q3231-02	FE056067.D	30 Sep 2025 03:03	YP\AJ	Ok
36	Q3231-06	FE056068.D	30 Sep 2025 03:33	YP\AJ	Ok,M
37	Q3231-09	FE056069.D	30 Sep 2025 04:04	YP\AJ	Dilution
38	Q3231-10	FE056070.D	30 Sep 2025 04:34	YP\AJ	Dilution
39	Q3231-13	FE056071.D	30 Sep 2025 05:05	YP\AJ	Ok,M
40	Q3231-14	FE056072.D	30 Sep 2025 05:35	YP\AJ	Ok,M
41	PB169879BL	FE056073.D	30 Sep 2025 06:05	YP\AJ	Ok,M
42	PB169879BS	FE056074.D	30 Sep 2025 06:36	YP\AJ	Ok,M
43	PB169879TB	FE056075.D	30 Sep 2025 07:06	YP\AJ	Ok
44	PB169879TB	FE056075.D	30 Sep 2025 07:06	YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE092925AL

Review By	yogesh	Review On	9/29/2025 10:09:20 AM		
Supervise By	mohammad	Supervise On	10/1/2025 1:40:41 AM		
SubDirectory	FE092925AL	HP Acquire Method		HP Processing Method	FE092425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	PB169879TB	FE056075.D	30 Sep 2025 07:06	YP\AJ	Ok
46	PB169879TB	FE056075.D	30 Sep 2025 07:06	YP\AJ	Ok
47	PB169879TB	FE056075.D	30 Sep 2025 07:06	YP\AJ	Ok
48	I.BLK	FE056076.D	30 Sep 2025 07:36	YP\AJ	Ok
49	20 PPM ALIPHATIC HC STD	FE056077.D	30 Sep 2025 08:07	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF092425AR

Review By	yogesh	Review On	9/24/2025 12:57:21 PM		
Supervise By	mohammad	Supervise On	9/26/2025 4:25:38 AM		
SubDirectory	FF092425AR	HP Acquire Method		HP Processing Method	FF092425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF016429.D	24 Sep 2025 13:00	YP\AJ	Ok
2	I.BLK	FF016430.D	24 Sep 2025 13:30	YP\AJ	Ok
3	100 PPM AROMATIC HC STD1	FF016431.D	24 Sep 2025 13:59	YP\AJ	Ok
4	50 PPM AROMATIC HC STD2	FF016432.D	24 Sep 2025 14:29	YP\AJ	Ok
5	20 PPM AROMATIC HC STD3	FF016433.D	24 Sep 2025 14:59	YP\AJ	Ok
6	10 PPM AROMATIC HC STD4	FF016434.D	24 Sep 2025 15:28	YP\AJ	Ok
7	5 PPM AROMATIC HC STD5	FF016435.D	24 Sep 2025 15:58	YP\AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FF016436.D	24 Sep 2025 16:28	YP\AJ	Ok
9	I.BLK	FF016437.D	24 Sep 2025 17:27	YP\AJ	Ok
10	20 PPM AROMATIC HC STD	FF016438.D	24 Sep 2025 17:57	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF092925AR

Review By	yogesh	Review On	9/29/2025 3:49:57 PM		
Supervise By	mohammad	Supervise On	10/1/2025 1:40:54 AM		
SubDirectory	FF092925AR	HP Acquire Method		HP Processing Method	FF092425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF016467.D	29 Sep 2025 08:51	YP\AJ	Ok
2	I.BLK	FF016468.D	29 Sep 2025 12:09	YP\AJ	Ok
3	20 PPM AROMATIC HC STD	FF016469.D	29 Sep 2025 14:07	YP\AJ	Ok
4	PB169879BL	FF016470.D	29 Sep 2025 16:35	YP\AJ	Ok
5	PB169879BS	FF016471.D	29 Sep 2025 17:05	YP\AJ	Ok
6	PB169879TB	FF016472.D	29 Sep 2025 17:35	YP\AJ	Ok
7	PB169879TB	FF016472.D	29 Sep 2025 17:35	YP\AJ	Ok
8	PB169879TB	FF016472.D	29 Sep 2025 17:35	YP\AJ	Ok
9	PB169879TB	FF016472.D	29 Sep 2025 17:35	YP\AJ	Ok
10	PB169879TB	FF016472.D	29 Sep 2025 17:35	YP\AJ	Ok
11	PB169879TB	FF016472.D	29 Sep 2025 17:35	YP\AJ	Ok
12	PB169879TB	FF016472.D	29 Sep 2025 17:35	YP\AJ	Ok
13	Q3177-01	FF016473.D	29 Sep 2025 18:04	YP\AJ	ReRun
14	Q3177-02	FF016474.D	29 Sep 2025 18:34	YP\AJ	Ok
15	Q3177-03	FF016475.D	29 Sep 2025 19:04	YP\AJ	Ok
16	Q3179-01	FF016476.D	29 Sep 2025 19:33	YP\AJ	Ok
17	Q3179-02	FF016477.D	29 Sep 2025 20:03	YP\AJ	Ok
18	Q3179-03	FF016478.D	29 Sep 2025 20:33	YP\AJ	Ok
19	I.BLK	FF016479.D	29 Sep 2025 21:03	YP\AJ	Ok
20	20 PPM AROMATIC HC STD	FF016480.D	29 Sep 2025 22:02	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC092325AL

Review By	yogesh	Review On	9/23/2025 12:34:12 PM		
Supervise By	mohammad	Supervise On	9/25/2025 2:25:00 AM		
SubDirectory	FC092325AL	HP Acquire Method		HP Processing Method	FC092325AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC069823.D	23 Sep 2025 09:03		YP/AJ	Ok
2	I.BLK	I.BLK	FC069824.D	23 Sep 2025 09:47		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC069825.D	23 Sep 2025 10:31		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC069826.D	23 Sep 2025 11:16		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069827.D	23 Sep 2025 12:02		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC069828.D	23 Sep 2025 12:47		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC069829.D	23 Sep 2025 13:33		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069830.D	23 Sep 2025 14:19		YP/AJ	Ok
9	I.BLK	I.BLK	FC069831.D	23 Sep 2025 15:05		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069832.D	23 Sep 2025 15:53		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC100125AL

Review By	yogesh	Review On	9/30/2025 10:26:16 AM		
Supervise By	mohammad	Supervise On	10/3/2025 1:30:03 AM		
SubDirectory	FC100125AL	HP Acquire Method		HP Processing Method	FC092325AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC069872.D	30 Sep 2025 07:40		YP/AJ	Ok
2	I.BLK	I.BLK	FC069873.D	30 Sep 2025 08:21		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069874.D	30 Sep 2025 09:04		YP/AJ	Ok
4	Q3177-02	EME-TS13-01	FC069875.D	30 Sep 2025 09:46		YP/AJ	Ok
5	Q3177-03	EME-TS14-02	FC069876.D	30 Sep 2025 10:29		YP/AJ	Ok
6	Q3177-01	EME-TS12-01	FC069877.D	30 Sep 2025 11:12		YP/AJ	Ok
7	PB169879BS	PB169879BS	FC069878.D	30 Sep 2025 11:56		YP/AJ	Ok,M
8	PB169879BL	PB169879BL	FC069879.D	30 Sep 2025 12:39		YP/AJ	Ok
9	PB169879TB	PB169879BLTB	FC069880.D	30 Sep 2025 13:22		YP/AJ	Ok
10	PB169879TB	PB169879BLTBTB	FC069880.D	30 Sep 2025 13:22		YP/AJ	Ok
11	PB169879TB	PB169879BLTBTBTB	FC069880.D	30 Sep 2025 13:22		YP/AJ	Ok
12	PB169879TB	PB169879BLTBTBTBT	FC069880.D	30 Sep 2025 13:22		YP/AJ	Ok
13	PB169879TB	PB169879BLTBTBTBT	FC069880.D	30 Sep 2025 13:22		YP/AJ	Ok
14	PB169879TB	PB169879BLTBTBTBT	FC069880.D	30 Sep 2025 13:22		YP/AJ	Ok
15	PB169879TB	PB169879BLTBTBTBT	FC069880.D	30 Sep 2025 13:22		YP/AJ	Ok
16	I.BLK	I.BLK	FC069881.D	30 Sep 2025 14:06		YP/AJ	Ok
17	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069882.D	30 Sep 2025 14:50		YP/AJ	Ok,M
18	PB169910BL	PB169910BL	FC069883.D	30 Sep 2025 15:34		YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC100125AL

Review By	yogesh	Review On	9/30/2025 10:26:16 AM		
Supervise By	mohammad	Supervise On	10/3/2025 1:30:03 AM		
SubDirectory	FC100125AL	HP Acquire Method		HP Processing Method	FC092325AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB169910BS	PB169910BS	FC069884.D	30 Sep 2025 16:19		YP/AJ	Ok,M
20	PB169910BSD	PB169910BSD	FC069885.D	30 Sep 2025 17:05		YP/AJ	Ok,M
21	Q3245-01	13-1	FC069886.D	30 Sep 2025 17:50		YP/AJ	Ok
22	Q3245-01D	Q3245-01D	FC069887.D	30 Sep 2025 18:36		YP/AJ	Ok
23	Q3245-01MS	13-1MS	FC069888.D	30 Sep 2025 19:21	FC069886.D	YP/AJ	Ok,M
24	Q3245-01MSD	13-1MSD	FC069889.D	30 Sep 2025 20:07	FC069886.D!FC069888.D	YP/AJ	Ok,M
25	I.BLK	I.BLK	FC069890.D	30 Sep 2025 21:38		YP/AJ	Ok
26	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069891.D	30 Sep 2025 22:24		YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD090425AR

Review By	yogesh	Review On	9/4/2025 10:41:46 AM		
Supervise By	mohammad	Supervise On	9/8/2025 4:38:38 AM		
SubDirectory	FD090425AR	HP Acquire Method		HP Processing Method	FD090425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049716.D	04 Sep 2025 08:15		YP/AJ	Ok
2	I.BLK	I.BLK	FD049717.D	04 Sep 2025 08:55		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD049718.D	04 Sep 2025 09:36		YP/AJ	Ok,M
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD049719.D	04 Sep 2025 10:16		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049720.D	04 Sep 2025 10:56		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD049721.D	04 Sep 2025 11:38		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD049722.D	04 Sep 2025 12:19		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049723.D	04 Sep 2025 13:00		YP/AJ	Ok
9	I.BLK	I.BLK	FD049724.D	04 Sep 2025 14:24		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049725.D	04 Sep 2025 15:08		YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD093025AR

Review By	yogesh	Review On	9/30/2025 11:24:02 AM		
Supervise By	mohammad	Supervise On	10/3/2025 1:30:41 AM		
SubDirectory	FD093025AR	HP Acquire Method		HP Processing Method	FD090425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049775.D	30 Sep 2025 07:40		YP/AJ	Ok
2	I.BLK	I.BLK	FD049776.D	30 Sep 2025 08:21		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049777.D	30 Sep 2025 09:04		YP/AJ	Ok
4	Q3177-01	EME-TS12-01	FD049778.D	30 Sep 2025 09:46		YP/AJ	Ok
5	I.BLK	I.BLK	FD049779.D	30 Sep 2025 10:29		YP/AJ	Ok
6	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049780.D	30 Sep 2025 11:12		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE092425AL

Review By	yogesh	Review On	9/24/2025 11:25:42 AM		
Supervise By	mohammad	Supervise On	9/26/2025 4:25:44 AM		
SubDirectory	FE092425AL	HP Acquire Method		HP Processing Method	FE092425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE055960.D	24 Sep 2025 08:06		YP\AJ	Ok
2	I.BLK	I.BLK	FE055961.D	24 Sep 2025 08:36		YP\AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FE055962.D	24 Sep 2025 09:07		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE055963.D	24 Sep 2025 09:37		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055964.D	24 Sep 2025 10:07		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE055965.D	24 Sep 2025 10:38		YP\AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE055966.D	24 Sep 2025 11:08		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055967.D	24 Sep 2025 11:39		YP\AJ	Ok
9	I.BLK	I.BLK	FE055968.D	24 Sep 2025 12:09		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055969.D	24 Sep 2025 12:40		YP\AJ	Ok
11	PB169809BL	PB169809BL	FE055970.D	24 Sep 2025 14:27		YP\AJ	Ok
12	PB169809BS	PB169809BLBS	FE055971.D	24 Sep 2025 14:58		YP\AJ	Ok
13	PB169809BS	PB169809BLBSBS	FE055971.D	24 Sep 2025 14:58		YP\AJ	Ok
14	PB169809BS	PB169809BLBSBSBS	FE055971.D	24 Sep 2025 14:58		YP\AJ	Ok
15	PB169809BS	PB169809BLBSBSBSB	FE055971.D	24 Sep 2025 14:58		YP\AJ	Ok
16	PB169809BS	PB169809BLBSBSBSB	FE055971.D	24 Sep 2025 14:58		YP\AJ	Ok
17	PB169809BS	PB169809BLBSBSBSB	FE055971.D	24 Sep 2025 14:58		YP\AJ	Ok
18	PB169809BS	PB169809BS	FE055971.D	24 Sep 2025 14:58		YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE092425AL

Review By	yogesh	Review On	9/24/2025 11:25:42 AM		
Supervise By	mohammad	Supervise On	9/26/2025 4:25:44 AM		
SubDirectory	FE092425AL	HP Acquire Method		HP Processing Method	FE092425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB169809BSD	PB169809BLBSBSBSE	FE055972.D	24 Sep 2025 15:28		YP\AJ	Ok
20	PB169809BSD	PB169809BLBSBSBSE	FE055972.D	24 Sep 2025 15:28		YP\AJ	Ok
21	PB169809BSD	PB169809BLBSBSBSE	FE055972.D	24 Sep 2025 15:28		YP\AJ	Ok
22	PB169809BSD	PB169809BLBSBSBSE	FE055972.D	24 Sep 2025 15:28		YP\AJ	Ok
23	PB169809BSD	PB169809BLBSBSBSE	FE055972.D	24 Sep 2025 15:28		YP\AJ	Ok
24	PB169809BSD	PB169809BLBSBSBSE	FE055972.D	24 Sep 2025 15:28		YP\AJ	Ok
25	PB169809BSD	PB169809BLBSBSBSE	FE055972.D	24 Sep 2025 15:28		YP\AJ	Ok
26	PB169809BSD	PB169809BSD	FE055972.D	24 Sep 2025 15:28		YP\AJ	Ok
27	Q3159-01	VNJ-245	FE055973.D	24 Sep 2025 15:59		YP\AJ	Ok
28	Q3159-01D	VNJ-245D	FE055974.D	24 Sep 2025 16:29		YP\AJ	Ok
29	Q3159-01MS	VNJ-245MS	FE055975.D	24 Sep 2025 17:00	FE055973.D	YP\AJ	Ok
30	Q3159-01MSD	VNJ-245MSD	FE055976.D	24 Sep 2025 17:31	FE055973.D!FE055975.D	YP\AJ	Ok
31	Q3159-03	VNJ-255	FE055977.D	24 Sep 2025 18:01		YP\AJ	Ok
32	Q3167-01	RT4784	FE055978.D	24 Sep 2025 18:32	Need 2X	YP\AJ	Dilution
33	Q3168-03	ARS20-0010-Oily Soil-S	FE055979.D	24 Sep 2025 19:03	Need 10X	YP\AJ	Dilution
34	I.BLK	I.BLK	FE055980.D	24 Sep 2025 20:04		YP\AJ	Ok
35	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055981.D	24 Sep 2025 20:35		YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE092925AL

Review By	yogesh	Review On	9/29/2025 10:09:20 AM		
Supervise By	mohammad	Supervise On	10/1/2025 1:40:41 AM		
SubDirectory	FE092925AL	HP Acquire Method		HP Processing Method	FE092425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE056033.D	29 Sep 2025 08:16		YP\AJ	Ok
2	I.BLK	I.BLK	FE056034.D	29 Sep 2025 08:47		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056035.D	29 Sep 2025 09:17		YP\AJ	Ok,M
4	Q3209-01	PL-02-092525	FE056036.D	29 Sep 2025 09:47	need 10x dilution	YP\AJ	Dilution
5	Q3209-02	PL-02-092525-E2	FE056037.D	29 Sep 2025 10:18	need 5x dilution	YP\AJ	Dilution
6	Q3212-01	EO-03-092525	FE056038.D	29 Sep 2025 10:48	need 10x dilution	YP\AJ	Dilution
7	Q3212-02	EO-03-092525-E2	FE056039.D	29 Sep 2025 11:18	need 10x dilution	YP\AJ	Dilution
8	Q3209-01DL	PL-02-092525DL	FE056040.D	29 Sep 2025 11:49		YP\AJ	Ok
9	Q3209-02DL	PL-02-092525-E2DL	FE056041.D	29 Sep 2025 12:19		YP\AJ	Ok
10	Q3212-01DL	EO-03-092525DL	FE056042.D	29 Sep 2025 12:49		YP\AJ	Ok,M
11	Q3212-02DL	EO-03-092525-E2DL	FE056043.D	29 Sep 2025 13:20		YP\AJ	Ok
12	I.BLK	I.BLK	FE056044.D	29 Sep 2025 14:21		YP\AJ	Ok
13	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056045.D	29 Sep 2025 14:51		YP\AJ	Ok,M
14	Q3200-01	ETGI-367	FE056046.D	29 Sep 2025 15:22		YP\AJ	Ok
15	Q3200-02	ETGI-367	FE056047.D	29 Sep 2025 15:52		YP\AJ	Ok
16	Q3206-01	TR-06-092525	FE056048.D	29 Sep 2025 16:23		YP\AJ	Ok,M
17	Q3206-02	TR-06-092525-E2	FE056049.D	29 Sep 2025 16:53	Need 5X	YP\AJ	Dilution
18	Q3208-03	SU-ESM-01	FE056050.D	29 Sep 2025 17:23	Need 5X	YP\AJ	Dilution

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE092925AL

Review By	yogesh	Review On	9/29/2025 10:09:20 AM		
Supervise By	mohammad	Supervise On	10/1/2025 1:40:41 AM		
SubDirectory	FE092925AL	HP Acquire Method		HP Processing Method	FE092425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3208-04	SU-ESM-02	FE056051.D	29 Sep 2025 17:54	Need 5X	YP\AJ	Dilution
20	Q3177-01	EME-TS12-01	FE056052.D	29 Sep 2025 18:25	Possible carryover	YP\AJ	Not Ok
21	Q3177-02	EME-TS13-01	FE056053.D	29 Sep 2025 18:55	Possible carryover	YP\AJ	Not Ok
22	Q3177-03	EME-TS14-02	FE056054.D	29 Sep 2025 19:26	Possible carryover	YP\AJ	Not Ok
23	Q3179-01	EME-TS14-01	FE056055.D	29 Sep 2025 19:56		YP\AJ	Ok
24	Q3179-02	Q3179-02	FE056056.D	29 Sep 2025 20:27	FE056055.D	YP\AJ	Ok
25	Q3179-03	Q3179-03	FE056057.D	29 Sep 2025 20:57	FE056055.D!FE056056.D	YP\AJ	Ok
26	I.BLK	I.BLK	FE056058.D	29 Sep 2025 21:58		YP\AJ	Ok
27	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056059.D	29 Sep 2025 22:59		YP\AJ	Ok,M
28	Q3220-01	OR-03-092625	FE056060.D	29 Sep 2025 23:30		YP\AJ	Ok
29	Q3220-02	OR-03-092625-E2	FE056061.D	30 Sep 2025 00:01		YP\AJ	Ok
30	Q3221-01	HD-01-092625	FE056062.D	30 Sep 2025 00:31	Need 5X	YP\AJ	Dilution
31	Q3221-02	HD-01-092625-E2	FE056063.D	30 Sep 2025 01:02	Need 5X	YP\AJ	Dilution
32	Q3222-01	SU-03-092625	FE056064.D	30 Sep 2025 01:32	Need 5X	YP\AJ	Dilution
33	Q3222-02	SU-03-092625-E2	FE056065.D	30 Sep 2025 02:02	Need 5X	YP\AJ	Dilution
34	Q3231-01	WC-1	FE056066.D	30 Sep 2025 02:33	Need 2X	YP\AJ	Dilution
35	Q3231-02	WC-1-EPH	FE056067.D	30 Sep 2025 03:03		YP\AJ	Ok
36	Q3231-06	WC-2-EPH	FE056068.D	30 Sep 2025 03:33		YP\AJ	Ok,M
37	Q3231-09	WC-3	FE056069.D	30 Sep 2025 04:04	Need 2X	YP\AJ	Dilution

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE092925AL

Review By	yogesh	Review On	9/29/2025 10:09:20 AM		
Supervise By	mohammad	Supervise On	10/1/2025 1:40:41 AM		
SubDirectory	FE092925AL	HP Acquire Method		HP Processing Method	FE092425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	Q3231-10	WC-3-EPH	FE056070.D	30 Sep 2025 04:34	Need 2X	YP\AJ	Dilution
39	Q3231-13	WC-4	FE056071.D	30 Sep 2025 05:05		YP\AJ	Ok,M
40	Q3231-14	WC-4-EPH	FE056072.D	30 Sep 2025 05:35		YP\AJ	Ok,M
41	PB169879BL	PB169879BL	FE056073.D	30 Sep 2025 06:05		YP\AJ	Ok,M
42	PB169879BS	PB169879BS	FE056074.D	30 Sep 2025 06:36		YP\AJ	Ok,M
43	PB169879TB	PB169879BSTB	FE056075.D	30 Sep 2025 07:06		YP\AJ	Ok
44	PB169879TB	PB169879BSTBTB	FE056075.D	30 Sep 2025 07:06		YP\AJ	Ok
45	PB169879TB	PB169879BSTBTBTB	FE056075.D	30 Sep 2025 07:06		YP\AJ	Ok
46	PB169879TB	PB169879BSTBTBTBT	FE056075.D	30 Sep 2025 07:06		YP\AJ	Ok
47	PB169879TB	PB169879BSTBTBTBT	FE056075.D	30 Sep 2025 07:06		YP\AJ	Ok
48	I.BLK	I.BLK	FE056076.D	30 Sep 2025 07:36		YP\AJ	Ok
49	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056077.D	30 Sep 2025 08:07		YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF092425AR

Review By	yogesh	Review On	9/24/2025 12:57:21 PM		
Supervise By	mohammad	Supervise On	9/26/2025 4:25:38 AM		
SubDirectory	FF092425AR	HP Acquire Method		HP Processing Method	FF092425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FF016429.D	24 Sep 2025 13:00		YP\AJ	Ok
2	I.BLK	I.BLK	FF016430.D	24 Sep 2025 13:30		YP\AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FF016431.D	24 Sep 2025 13:59		YP\AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FF016432.D	24 Sep 2025 14:29		YP\AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016433.D	24 Sep 2025 14:59		YP\AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FF016434.D	24 Sep 2025 15:28		YP\AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FF016435.D	24 Sep 2025 15:58		YP\AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016436.D	24 Sep 2025 16:28		YP\AJ	Ok
9	I.BLK	I.BLK	FF016437.D	24 Sep 2025 17:27		YP\AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016438.D	24 Sep 2025 17:57		YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF092925AR

Review By	yogesh	Review On	9/29/2025 3:49:57 PM		
Supervise By	mohammad	Supervise On	10/1/2025 1:40:54 AM		
SubDirectory	FF092925AR	HP Acquire Method		HP Processing Method	FF092425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FF016467.D	29 Sep 2025 08:51		YP\AJ	Ok
2	I.BLK	I.BLK	FF016468.D	29 Sep 2025 12:09		YP\AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016469.D	29 Sep 2025 14:07		YP\AJ	Ok
4	PB169879BL	PB169879BL	FF016470.D	29 Sep 2025 16:35		YP\AJ	Ok
5	PB169879BS	PB169879BS	FF016471.D	29 Sep 2025 17:05		YP\AJ	Ok
6	PB169879TB	PB169879BSTB	FF016472.D	29 Sep 2025 17:35		YP\AJ	Ok
7	PB169879TB	PB169879BSTBTB	FF016472.D	29 Sep 2025 17:35		YP\AJ	Ok
8	PB169879TB	PB169879BSTBTBTB	FF016472.D	29 Sep 2025 17:35		YP\AJ	Ok
9	PB169879TB	PB169879BSTBTBTBT	FF016472.D	29 Sep 2025 17:35		YP\AJ	Ok
10	PB169879TB	PB169879BSTBTBTBT	FF016472.D	29 Sep 2025 17:35		YP\AJ	Ok
11	PB169879TB	PB169879BSTBTBTBT	FF016472.D	29 Sep 2025 17:35		YP\AJ	Ok
12	PB169879TB	PB169879BSTBTBTBT	FF016472.D	29 Sep 2025 17:35		YP\AJ	Ok
13	Q3177-01	EME-TS12-01	FF016473.D	29 Sep 2025 18:04	Surrogate Fail	YP\AJ	ReRun
14	Q3177-02	EME-TS13-01	FF016474.D	29 Sep 2025 18:34		YP\AJ	Ok
15	Q3177-03	EME-TS14-02	FF016475.D	29 Sep 2025 19:04		YP\AJ	Ok
16	Q3179-01	EME-TS14-01	FF016476.D	29 Sep 2025 19:33		YP\AJ	Ok
17	Q3179-02	Q3179-02	FF016477.D	29 Sep 2025 20:03	FF016476.D	YP\AJ	Ok
18	Q3179-03	Q3179-03	FF016478.D	29 Sep 2025 20:33	FF016476.D!FF016477.D	YP\AJ	Ok

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF092925AR

Review By	yogesh	Review On	9/29/2025 3:49:57 PM		
Supervise By	mohammad	Supervise On	10/1/2025 1:40:54 AM		
SubDirectory	FF092925AR	HP Acquire Method		HP Processing Method	FF092425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	I.BLK	I.BLK	FF016479.D	29 Sep 2025 21:03		YP\AJ	Ok
20	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016480.D	29 Sep 2025 22:02		YP\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB169879

SOP ID:	MNJDEP-EPH-8				
Clean Up SOP #:	N/A			**Extraction Start Date :**	09/29/2025
Matrix :	Water			**Extraction Start Time :**	08:30
Weigh By:	N/A	**Extraction By:**	RJ	**Extraction End Date :**	09/29/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	14:45
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3953	**Hood ID:**	3,7	**Supervisor By :**	ritesh

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	PP24918
Surrogate	1.0ML	100 PPM	PP24941
Fractionation Surrogate	1.0ML	100 PPM	PP24915
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3973
Baked Na2SO4	N/A	EP2646
Hexane	N/A	E3974
6N HCL	N/A	EP2635
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
9/29/25	RJ (Lab)	Y-P-Post-IPOS
14:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB169879

Analytical Method: MNJDEP-EPH-8 **Concentration Date:** 09/29/2025

Sample ID	Client Sample ID	Test	g /(mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169879BL	PB169879BL	EPH	1000	<2	ritesh	Evelyn	2			SEP-1
PB169879BS	PB169879BS	EPH	1000	<2	ritesh	Evelyn	2			2
PB169879TB	PB169879TB	EPH	1000	<2	ritesh	Evelyn	2			3
Q3177-01	EME-TS12-01	EPH	1000	<2	ritesh	Evelyn	2	A		4
Q3177-02	EME-TS13-01	EPH	1000	<2	ritesh	Evelyn	2	A		5
Q3177-03	EME-TS14-02	EPH	1000	<2	ritesh	Evelyn	2	A		6
Q3179-01	EME-TS14-01	EPH	1000	<2	ritesh	Evelyn	2	A		7
Q3179-02	EME-TS14-01MS	EPH	1000	<2	ritesh	Evelyn	2	A		8
Q3179-03	EME-TS14-01MSD	EPH	1000	<2	ritesh	Evelyn	2	A		9

RJ
9/29

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB169818

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Pre Po
PB169818TB	LEB818	15	N/A	2000	N/A	N/A	N/A	4.24	1.5	T-2
Q3177-01	EME-TS12-01	11	100.02	2000	N/A	N/A	N/A	7.2	1.0	T-2
Q3177-02	EME-TS13-01	12	100.03	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q3177-03	EME-TS14-02	13	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-2
Q3179-01	EME-TS14-01	14	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-2
Q3179-02	EME-TS14-01MS	14	100.02	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q3179-03	EME-TS14-01MSD	14	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-2

6 9/25/25
10:00

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB169818

SOP ID : M1312-SPLP-10

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-2

TCLP Filter ID : 40819719

Start Prep Date : 09/24/2025 **Time :** 14:30

End Prep Date : 09/25/2025 **Time :** 08:10

Combination Ratio : 20

ZHE Cleaning Batch : N/A 10

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
SPLP FLUID	WP114530	N/A
N/A	N/A	N/A
HNO3-TCLP,1N	N/A	WP114528
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP86978

Extraction Conformance/Non-Conformance Comments:

TUMBLER T-2 checked,30 rpm. Matrix spikes are added after fiftration and before preservation.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09/25/25 10:00	JP / T-2 RM	SKJ. RJ / T-2
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB169818

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB169818TB	LEB818	15	N/A	2000	N/A	N/A	N/A	4.24	1.5	T-2
Q3177-01	EME-TS12-01	11	100.02	2000	N/A	N/A	N/A	7.2	1.0	T-2
Q3177-02	EME-TS13-01	12	100.03	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q3177-03	EME-TS14-02	13	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-2
Q3179-01	EME-TS14-01	14	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-2
Q3179-02	EME-TS14-01MS	14	100.02	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q3179-03	EME-TS14-01MSD	14	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB169818TB	LEB818	N/A	N/A	N/A	N/A	N/A	N/A
Q3177-01	EME-TS12-01	N/A	N/A	N/A	N/A	100	N/A
Q3177-02	EME-TS13-01	N/A	N/A	N/A	N/A	100	N/A
Q3177-03	EME-TS14-02	N/A	N/A	N/A	N/A	100	N/A
Q3179-01	EME-TS14-01	N/A	N/A	N/A	N/A	100	N/A
Q3179-02	EME-TS14-01MS	N/A	N/A	N/A	N/A	100	N/A
Q3179-03	EME-TS14-01MSD	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

SPLP Fluid Determination

PB169818

Hot Block ID : WC S-1 / WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB169818TB	LEB818	N/A	N/A	N/A	N/A	#1	4.24
Q3177-01	EME-TS12-01	N/A	N/A	N/A	N/A	#1	4.24
Q3177-02	EME-TS13-01	N/A	N/A	N/A	N/A	#1	4.24
Q3177-03	EME-TS14-02	N/A	N/A	N/A	N/A	#1	4.24
Q3179-01	EME-TS14-01	N/A	N/A	N/A	N/A	#1	4.24
Q3179-02	EME-TS14-01MS	N/A	N/A	N/A	N/A	#1	4.24
Q3179-03	EME-TS14-01MSD	N/A	N/A	N/A	N/A	#1	4.24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : splp q3177 **WorkList ID :** 192051 **Department :** TCLP Extraction **Date :** 09-24-2025 13:40:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3177-01	EME-TS12-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J23	09/23/2025	1312
Q3177-02	EME-TS13-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J23	09/23/2025	1312
Q3177-03	EME-TS14-02	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J23	09/23/2025	1312
Q3179-01	EME-TS14-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J23	09/23/2025	1312
Q3179-02	EME-TS14-01MS	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J42	09/23/2025	1312
Q3179-03	EME-TS14-01MSD	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J42	09/23/2025	1312

Date/Time 09/24/25 13:45
Raw Sample Received by: JR WPC
Raw Sample Relinquished by: ITCSM

Date/Time 09/24/25 16:00
Raw Sample Received by: ITCSM
Raw Sample Relinquished by: JR WPC

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Prep Standard - Chemical Standard Summary

Order ID : Q3177

Test : EPH

Prepbatch ID : PB169879,

Sequence ID/Qc Batch ID: FC100125AL,FD093025AR,FE092925AL,FF092925AR,

Standard ID :
EP2635,EP2646,PP24500,PP24501,PP24502,PP24503,PP24504,PP24505,PP24506,PP24768,PP24769,PP24770,PP24771,PP24772,PP24773,PP24774,PP24915,PP24918,PP24941,

Chemical ID :
E3875,E3926,E3956,E3966,E3972,E3973,E3974,M6151,P10758,P11140,P12364,P13280,P13281,P13620,P13673,P13674,P13690,P13954,P13955,P14029,P14030,P14031,P14032,P14058,P14059,P14060,P14061,P14074,P14075,P14076,P14077,P14078,P14079,P14080,P14081,P14082,P14083,P14094,P14095,P14096,P14097,P14098,P14099,P14100,P14101,P14102,P14103,P14147,P14148,P14149,P14150,W3112,W3234,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3319	6N HCL	EP2635	08/19/2025	02/17/2026	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel 08/19/2025

FROM 219.00000ml of M6151 + 781.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2646	09/26/2025	01/28/2026	Evelyn Huang	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 09/26/2025

FROM 4000.00000gram of E3875 = 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	PP24500	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza 05/08/2025

FROM 0.25000ml of P13673 + 0.62500ml of P13954 + 1.25000ml of P10758 + 22.87500ml of E3926 = 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)	PP24501	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza 05/08/2025

FROM 0.25000ml of P13674 + 0.62500ml of P13955 + 1.25000ml of P11140 + 22.87500ml of E3926 = 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	PP24502	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza 05/08/2025

FROM 0.50000ml of E3926 + 0.50000ml of PP24500 = 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	PP24503	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza 05/08/2025

FROM 0.80000ml of E3926 + 0.20000ml of PP24500 = 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	PP24504	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza 05/08/2025

FROM 0.90000ml of E3926 + 0.10000ml of PP24500 = 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	PP24505	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza 05/08/2025

FROM 0.90000ml of E3926 + 0.10000ml of PP24502 = 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)	PP24506	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza 05/08/2025

FROM 0.80000ml of E3926 + 0.20000ml of PP24501 = 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)	PP24768	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025

FROM 0.25000ml of P13620 + 0.25000ml of P13690 + 1.25000ml of P12364 + 23.25000ml of E3956 = 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)	PP24769	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025

FROM 0.22000ml of P13690 + 0.25000ml of P13620 + 1.25000ml of P13280 + 1.25000ml of P13281 + 22.00000ml of E3956 = 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	PP24770	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025

FROM 0.50000ml of W3234 + 0.50000ml of PP24768 = 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	PP24771	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025

FROM 0.80000ml of W3234 + 0.20000ml of PP24768 = 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	PP24772	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025

FROM 0.90000ml of W3234 + 0.10000ml of PP24768 = 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	PP24773	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025

FROM 0.90000ml of W3234 + 0.10000ml of PP24770 = 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)	PP24774	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025

FROM 0.80000ml of W3234 + 0.20000ml of PP24769 = 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
1331	100 PPM NJEPH Fractionating Surrogate	PP24915	08/28/2025	02/28/2026	Abdul Mirza	None	None	Yogesh Patel 09/17/2025

FROM 1.25000ml of P14058 + 1.25000ml of P14059 + 1.25000ml of P14060 + 1.25000ml of P14061 + 195.00000ml of E3966 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1330	100 PPM NJEPH Spike Solution	PP24918	09/02/2025	03/02/2026	Abdul Mirza	None	None	Yogesh Patel 09/17/2025

FROM 5.00000ml of P14074 + 5.00000ml of P14075 + 5.00000ml of P14076 + 5.00000ml of P14077 + 5.00000ml of P14078 + 5.00000ml of P14079 + 5.00000ml of P14080 + 5.00000ml of P14081 + 5.00000ml of P14082 + 5.00000ml of P14083 + 5.00000ml of P14094 + 5.00000ml of P14095 + 5.00000ml of P14096 + 5.00000ml of P14097 + 5.00000ml of P14098 + 5.00000ml of P14099 + 5.00000ml of P14100 + 5.00000ml of P14101 + 5.00000ml of P14102 + 5.00000ml of P14103 = Final Quantity: 100.000 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	PP24941	09/24/2025	03/24/2026	Abdul Mirza	None	None	Yogesh Patel 10/03/2025

FROM 1.25000ml of P14029 + 1.25000ml of P14030 + 1.25000ml of P14031 + 1.25000ml of P14032 + 1.25000ml of P14147 + 1.25000ml of P14148 + 1.25000ml of P14149 + 1.25000ml of P14150 + 490.00000ml of E3972 = Final Quantity: 500.000 ml

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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	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

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)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	07/16/2025 / RUPESH	07/16/2025 / RUPESH	E3956

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	08/22/2025 / RUPESH	08/20/2025 / RUPESH	E3966

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	05/24/2027	09/16/2025 / Evelyn	09/04/2025 / Riteshkumar	E3972

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)	25C1262005	04/16/2026	09/15/2025 / Riteshkumar	09/15/2025 / Riteshkumar	E3973

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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-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362006	04/10/2027	09/26/2025 / Riteshkumar	09/26/2025 / Riteshkumar	E3974

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30541 / Custom NJEPH Aromatics Calibration Standard	A0172403	11/01/2025	05/01/2025 / yogesh	06/17/2021 / dhaval	P10758

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	11/01/2025	05/01/2025 / yogesh	10/29/2021 / Abdul	P11140

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	02/01/2026	08/01/2025 / yogesh	03/16/2023 / Yogesh	P12364

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	02/01/2026	08/01/2025 / yogesh	04/11/2024 / yogesh	P13280

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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.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	02/01/2026	08/01/2025 / yogesh	04/11/2024 / yogesh	P13281

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	02/01/2026	08/01/2025 / yogesh	10/16/2024 / yogesh	P13620

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	11/01/2025	05/01/2025 / yogesh	10/16/2024 / yogesh	P13673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	11/01/2025	05/01/2025 / yogesh	10/16/2024 / yogesh	P13674

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	02/01/2026	08/01/2025 / yogesh	10/16/2024 / yogesh	P13690

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0219106	11/01/2025	05/01/2025 / yogesh	03/10/2025 / yogesh	P13954

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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	31480 / MA Fractionation Surrogate Spike Mix	A0221895	11/01/2025	05/01/2025 / yogesh	03/10/2025 / yogesh	P13955

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14031

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14032

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0224278	02/28/2026	08/28/2025 / Abdul	06/09/2025 / anahy	P14058

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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	31480 / MA Fractionation Surrogate Spike Mix	A0221895	02/28/2026	08/28/2025 / Abdul	06/09/2025 / anahy	P14059

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0221895	02/28/2026	08/28/2025 / Abdul	06/09/2025 / anahy	P14060

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0221895	02/28/2026	08/28/2025 / Abdul	06/09/2025 / anahy	P14061

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14075

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14076

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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	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14078

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14079

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14080

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14081

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14082

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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	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14083

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14094

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14095

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14096

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14097

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14098

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14099

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14100

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14101

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14102

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14147

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14148

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14149

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14150

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	07/28/2025 / jignesh	07/25/2025 / jignesh	W3234

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.

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)

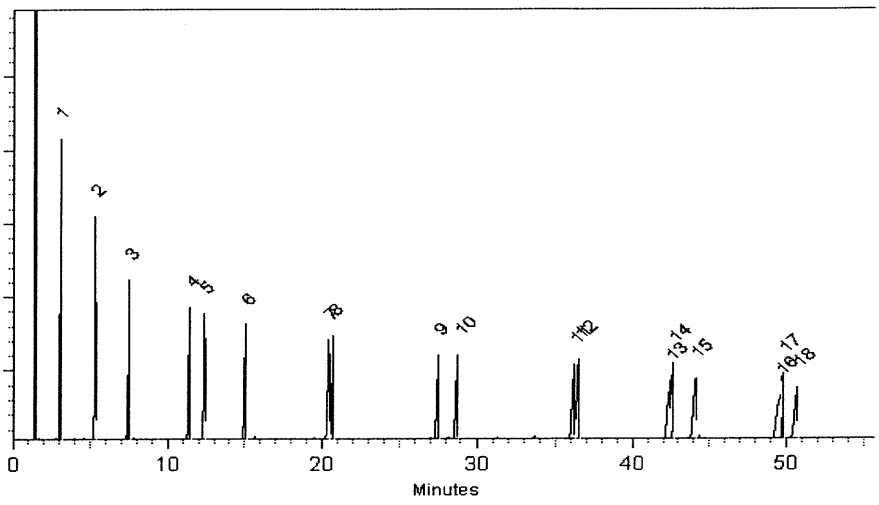
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9262-03
Batch No.: 25C0362006
Manufactured Date: 2025-01-29
Expiration Date:2026-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	4
Assay (Total Saturated C_6 Isomers) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.2 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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3974

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

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
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:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
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%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
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%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
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.

RE-02-01, Ed. 3

E 3875

PO: PO2-1308 PRODUCT CODE: SHIP DATE: 2/7/25

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date:2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3926

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.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date:2026-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated C_6 Isomers) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recieved on 7/16/25

E3956

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

PO: PO2-2575 PRODUCT CODE: SHIP DATE: 6/20/25

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date:2026-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated C_6 Isomers) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3966

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Page 1 of 1

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

E3972

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

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

M6151

R-> 1/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

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

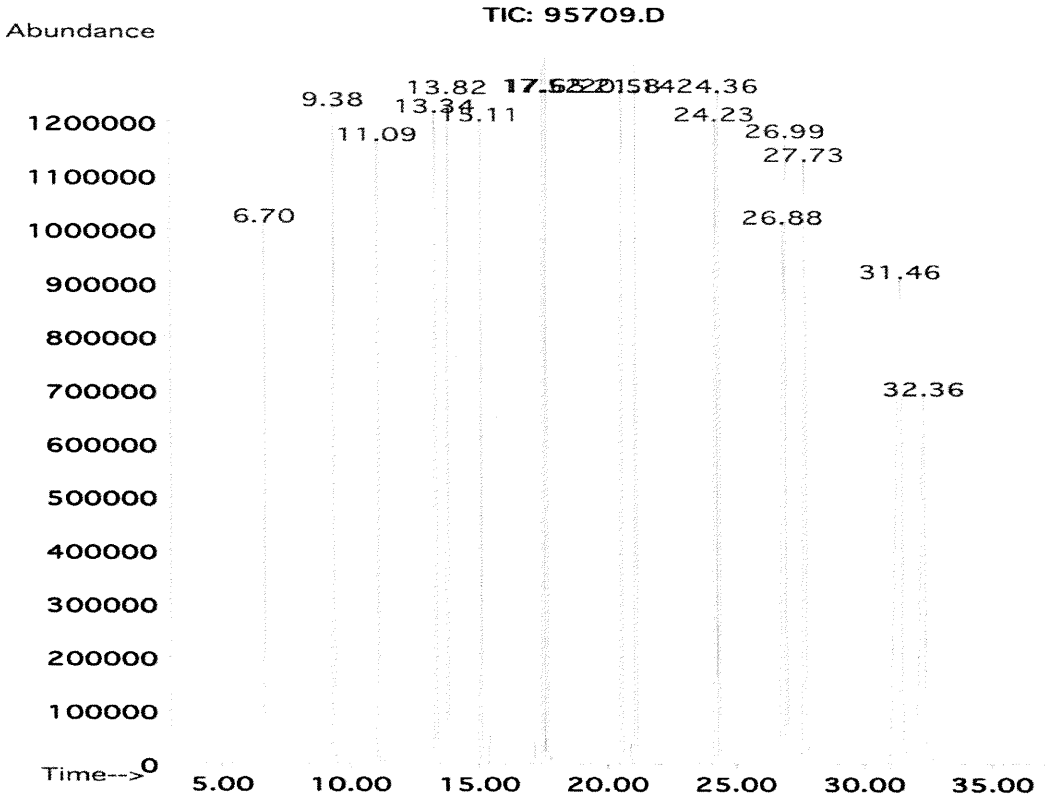
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, 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).

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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)

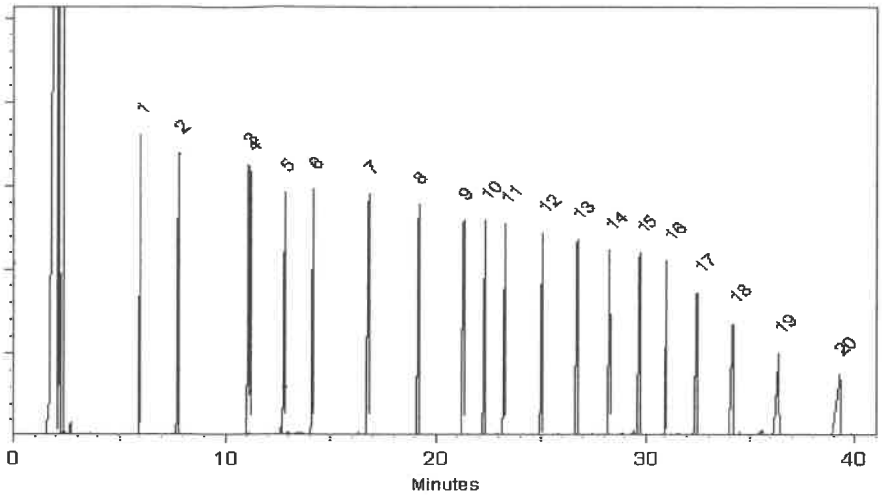
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

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).

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.
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- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
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- 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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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

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

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

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

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

Ship: Ambient

P13595 ↓ P13624 Y.P. 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

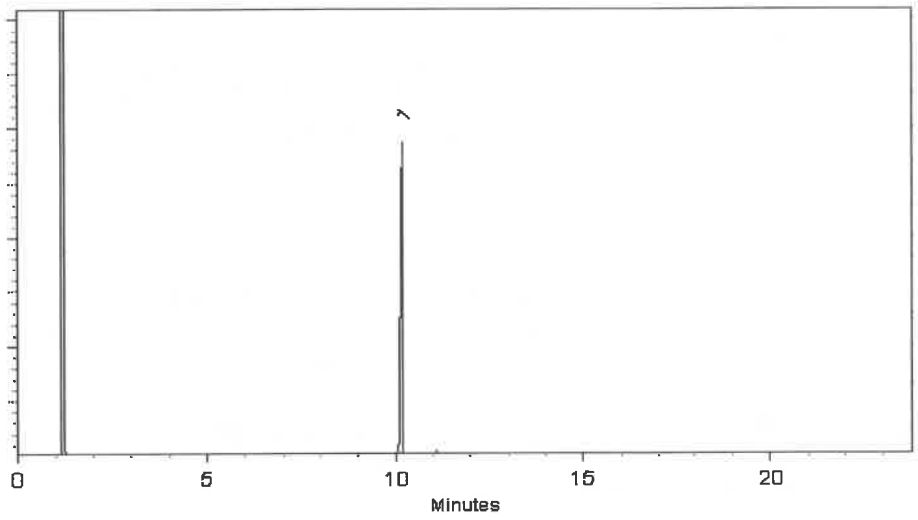
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  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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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

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

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13645 → P13694 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	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

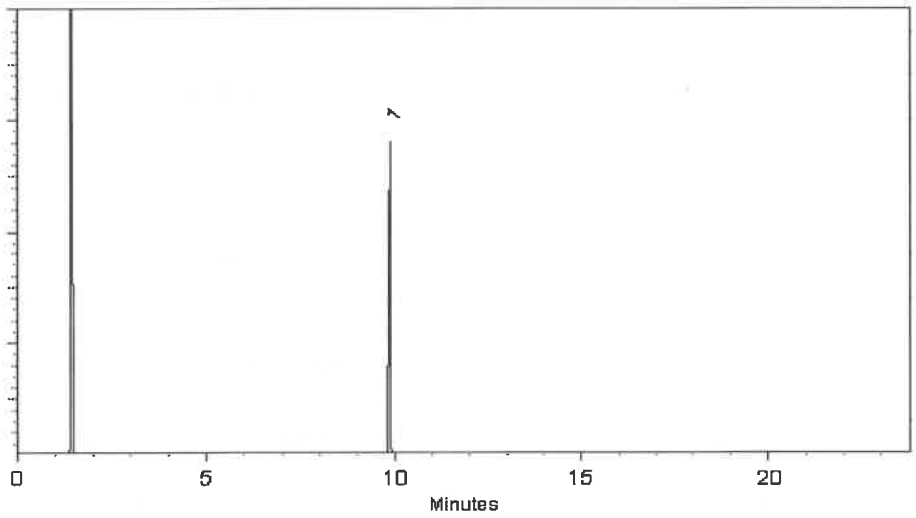
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Ven Kelley - Operations Tech I **Date Mixed:** 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I **Date Passed:** 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
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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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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

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

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13645 ↓ P13694 } 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	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

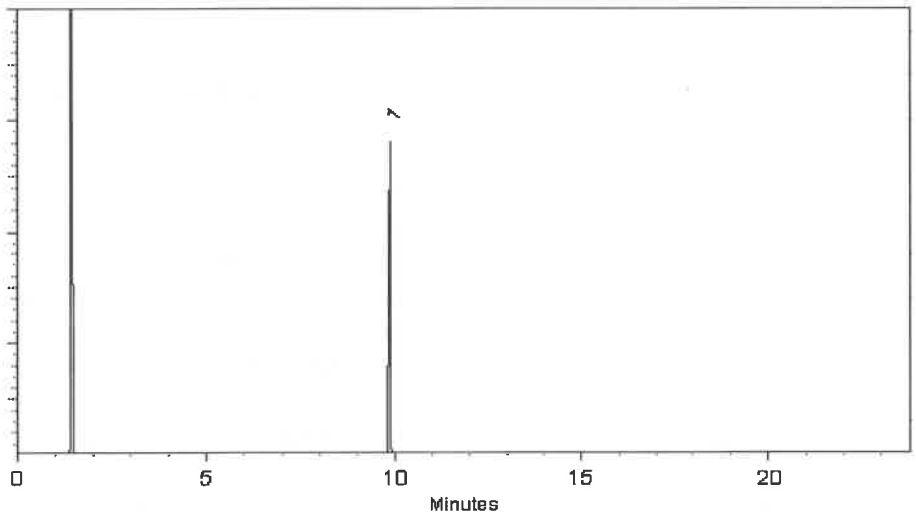
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
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Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13645 → P13694 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	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

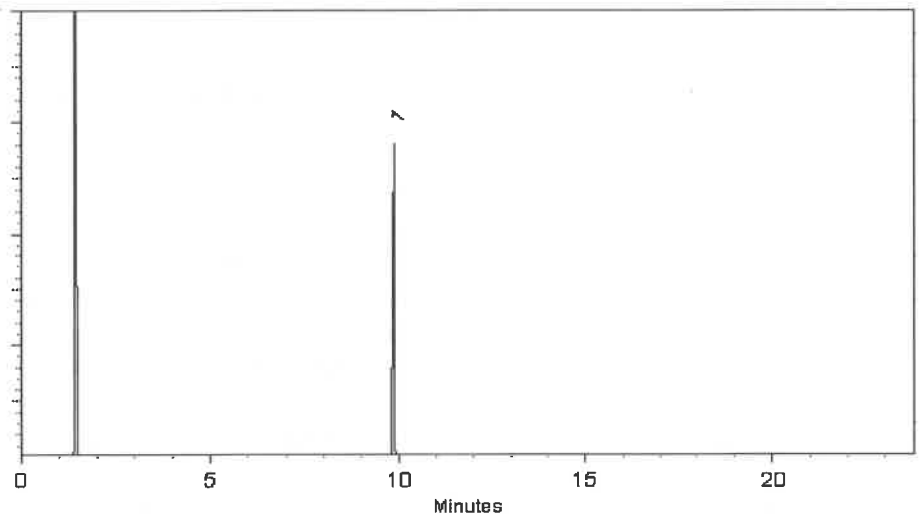
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
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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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 31480 **Lot No.:** A0219106

P13947
L

Description : MA Fractionation Surrogate Spike Mix

MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

P13954

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

Expiration Date : October 31, 2030 **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%	4,013.5 µg/mL	+/- 180.7988
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,011.0 µg/mL	+/- 180.6862

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-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.)

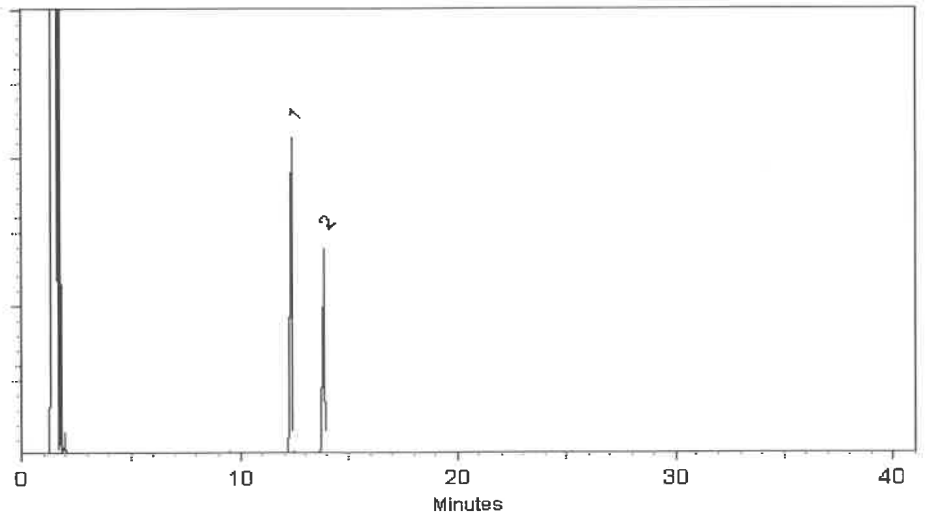
Inj. Temp:
250°C

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.

Wilner Torres - Operation Tech I

Date Mixed: 14-Nov-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Nov-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  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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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.:** A0221895

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

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13955
↓
P13966.

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%	4,032.5 µg/mL	+/- 181.6547
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,033.0 µg/mL	+/- 181.6772

* 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.)

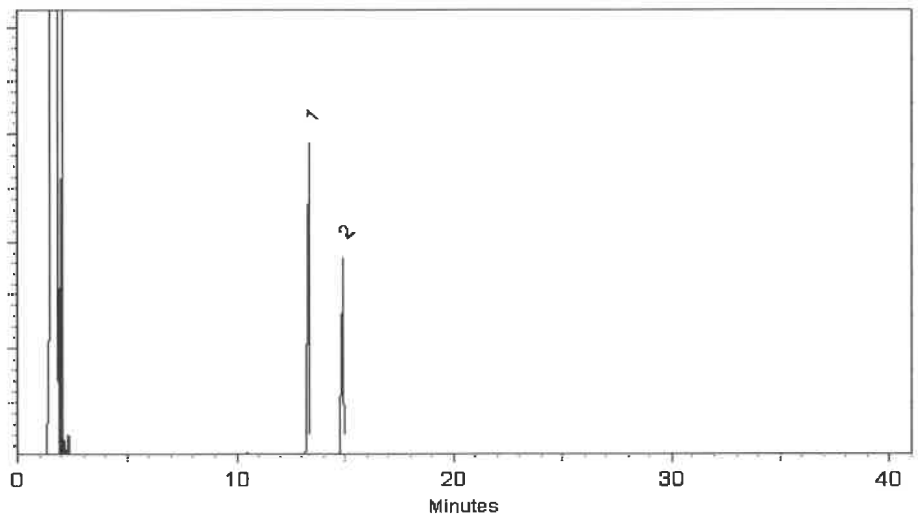
Inj. Temp:
250°C

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.

Ven Kelley - Operations Tech I

Date Mixed: 04-Feb-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 12-Feb-2025

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31098 **Lot No.:** A0225485

Description : 1-Chlorooctadecane Standard

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

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

Expiration Date : June 30, 2032 **Storage:** 10°C or colder

Ship: Ambient

P140928 ↓ P140942 RC 6/2/25

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	15711200	99%	10,006.8 µg/mL	+/- 562.1814

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

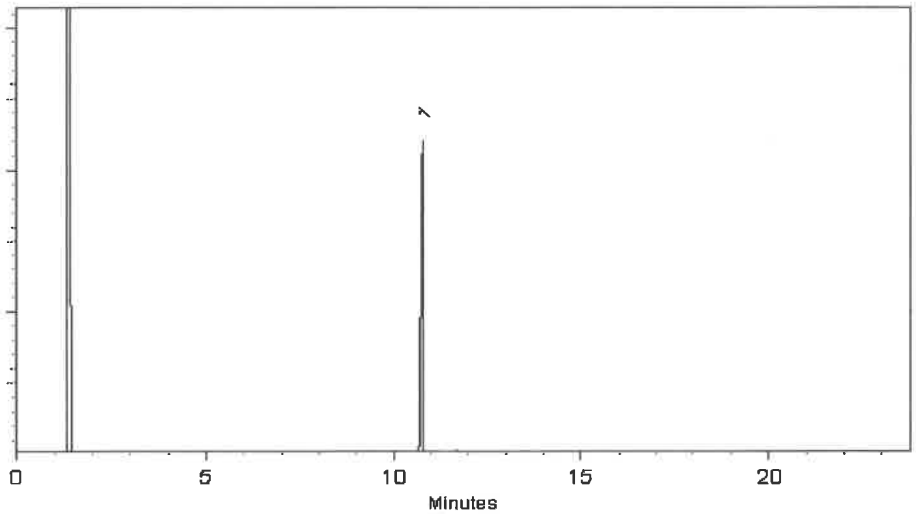
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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

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Catalog No. : 31098 **Lot No.:** A0225485

Description : 1-Chlorooctadecane Standard

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

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

Expiration Date : June 30, 2032 **Storage:** 10°C or colder

Ship: Ambient

P140928 ↓ P140942 RC 6/2/25

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	15711200	99%	10,006.8 µg/mL	+/- 562.1814

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

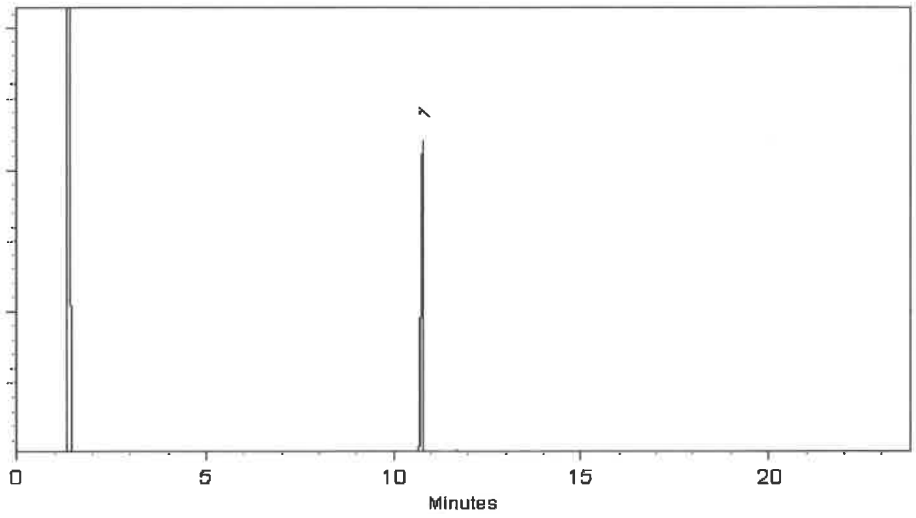
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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

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

Catalog No. : 31098 **Lot No.:** A0225485

Description : 1-Chlorooctadecane Standard

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

P14028 ↓ P14042 RC/ 6/2/25

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

Expiration Date : June 30, 2032 **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	15711200	99%	10,006.8 µg/mL	+/- 562.1814

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

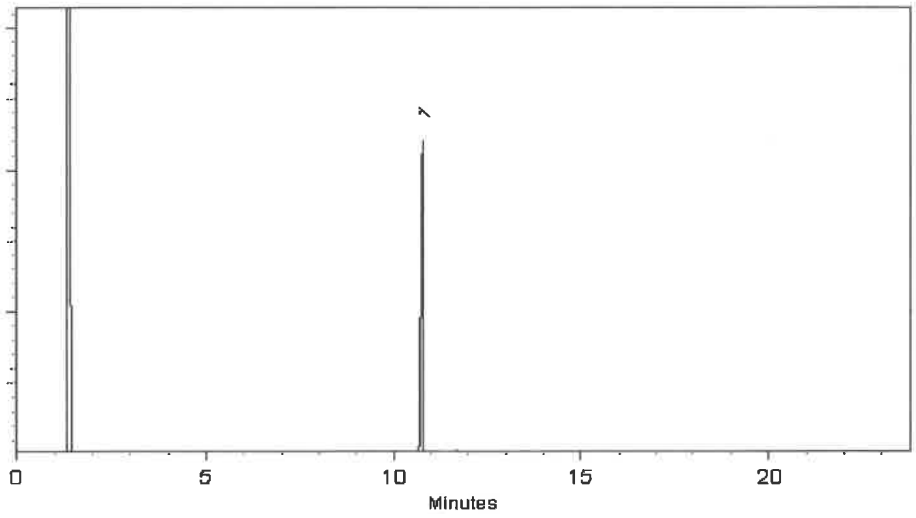
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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

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

Catalog No. : 31098 **Lot No.:** A0225485

Description : 1-Chlorooctadecane Standard

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

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

Expiration Date : June 30, 2032 **Storage:** 10°C or colder

Ship: Ambient

P140028 ↓ P140042 RC 6/2/25

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	15711200	99%	10,006.8 µg/mL	+/- 562.1814

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

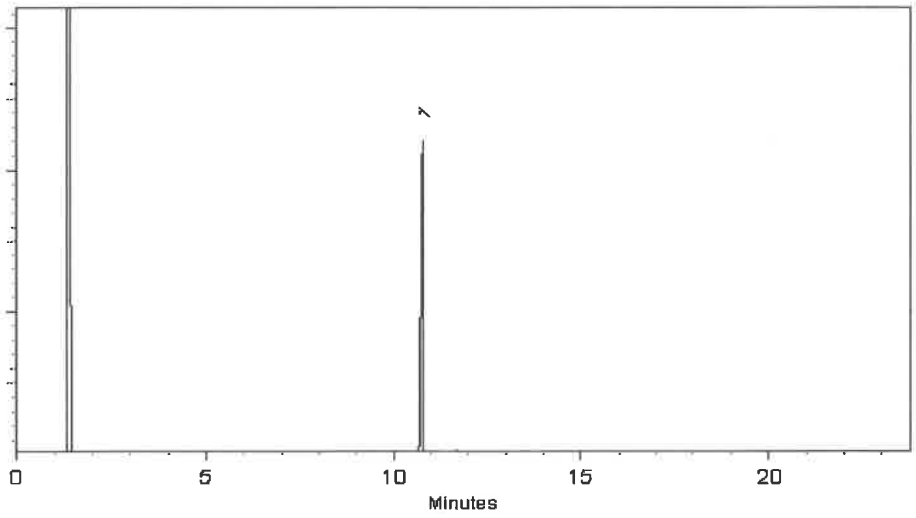
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31480 **Lot No.:** A0224278

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, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14043 → P14058 } AC 6/10/25

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%	4,018.5 µg/mL	+/- 181.0240
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,019.5 µg/mL	+/- 181.0691

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%

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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.

P14059 & P14062 } AC 6/10/25

Catalog No. : 31480 **Lot No.:** A0221895

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 : January 31, 2031 **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%	4,032.5 µg/mL	+/- 181.6547
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,033.0 µg/mL	+/- 181.6772

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%

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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.:** A0221895

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

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14059 ↓ P14062 } AC 6/10/25

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%	4,032.5 µg/mL	+/- 181.6547
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,033.0 µg/mL	+/- 181.6772

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%

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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. : 31480 **Lot No.:** A0221895

Description : MA Fractionation Surrogate Spike Mix

MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

P14059 ↓ P14062 } AC 6/10/25

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

Expiration Date : January 31, 2031 **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%	4,032.5 µg/mL	+/- 181.6547
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,033.0 µg/mL	+/- 181.6772

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%

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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.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 → P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* 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.)

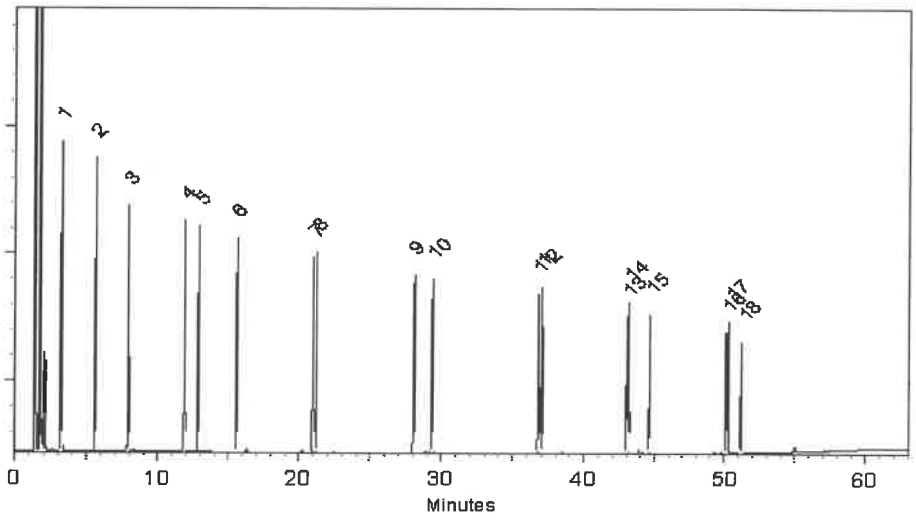
Inj. Temp:
250°C

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.

Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 ↓ P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* 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.)

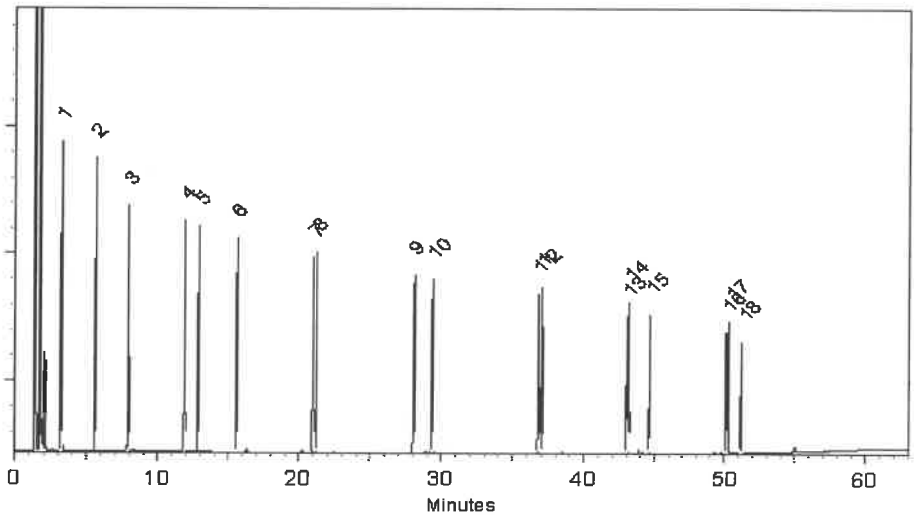
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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

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Certificate of Analysis

chromatographic plus

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

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 ↓ P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* 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.)

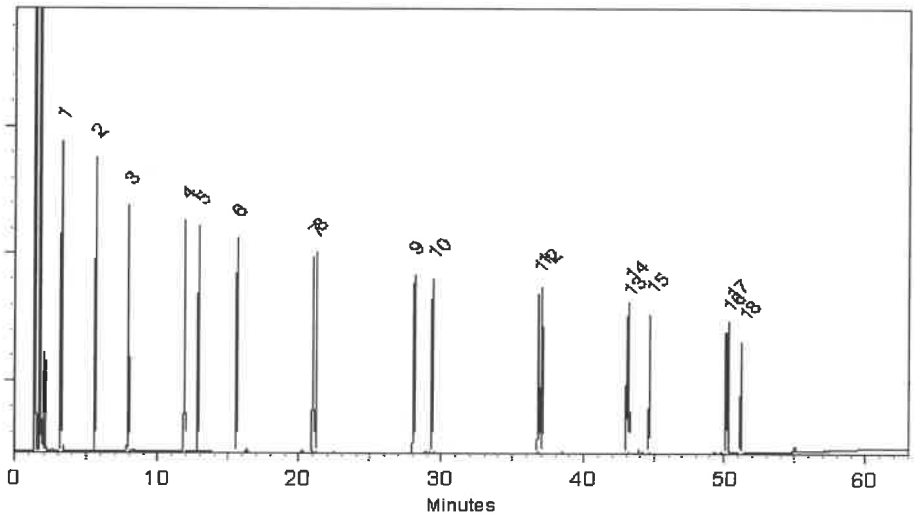
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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

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Certificate of Analysis

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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.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 ↓ P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* 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.)

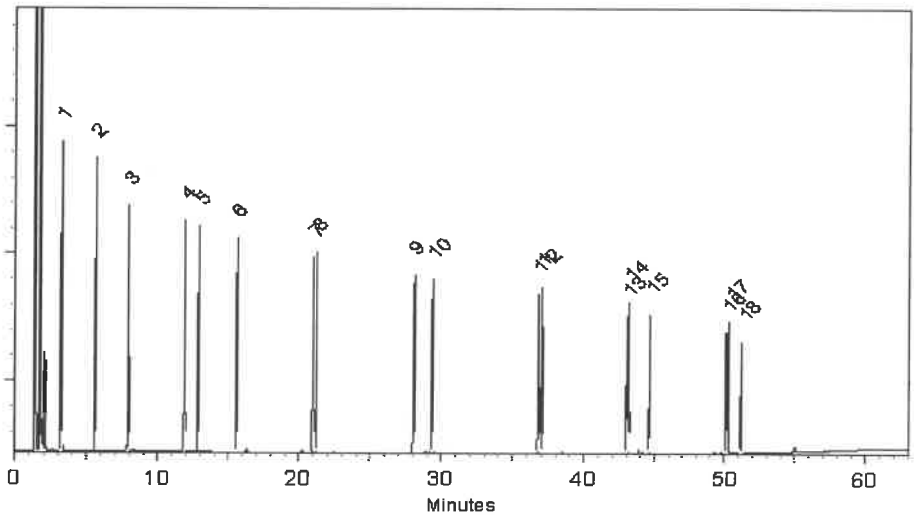
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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

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ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

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Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 ↓ P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
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4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
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6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

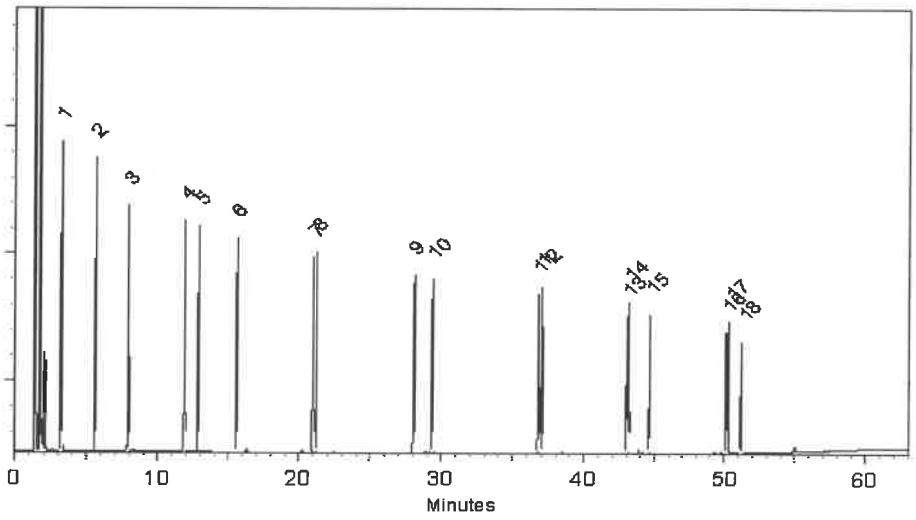
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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

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Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 ↓ P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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)
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3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
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10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* 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.)

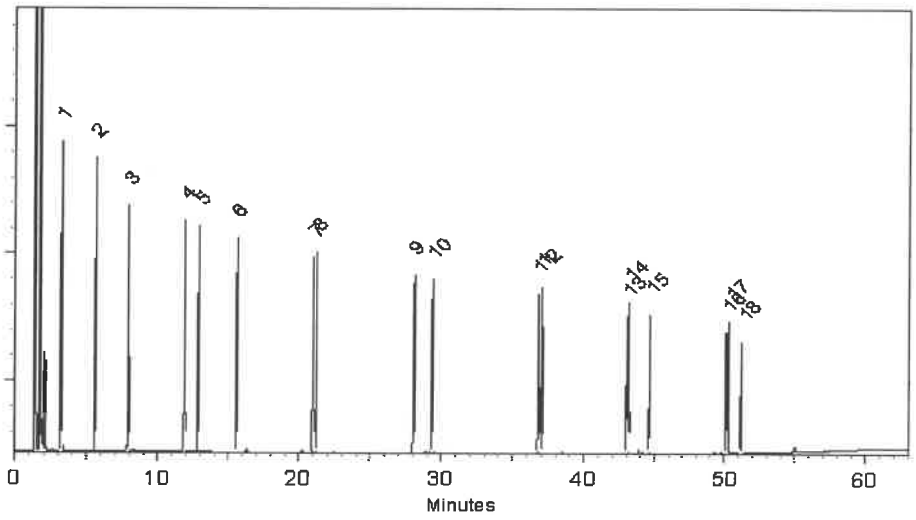
Inj. Temp:
250°C

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.

Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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

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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.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 ↓ P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* 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.)

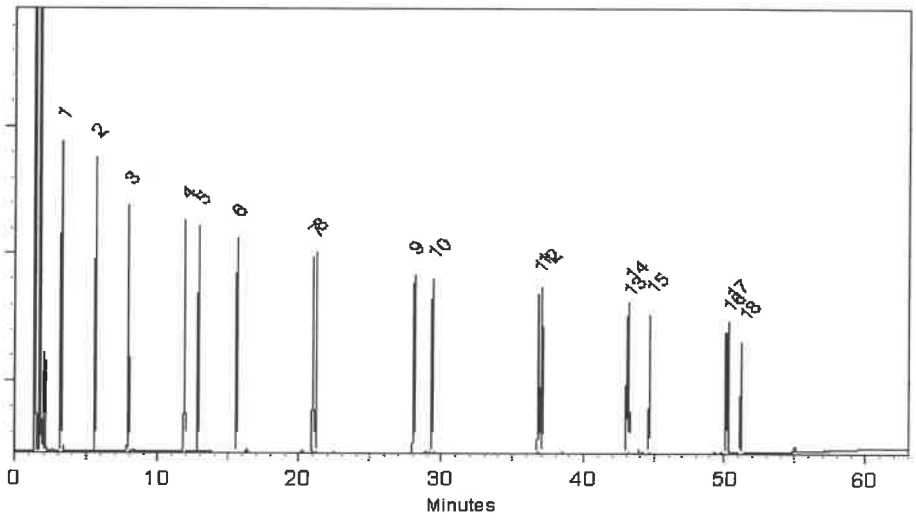
Inj. Temp:
250°C

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.

Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 → P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* 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.)

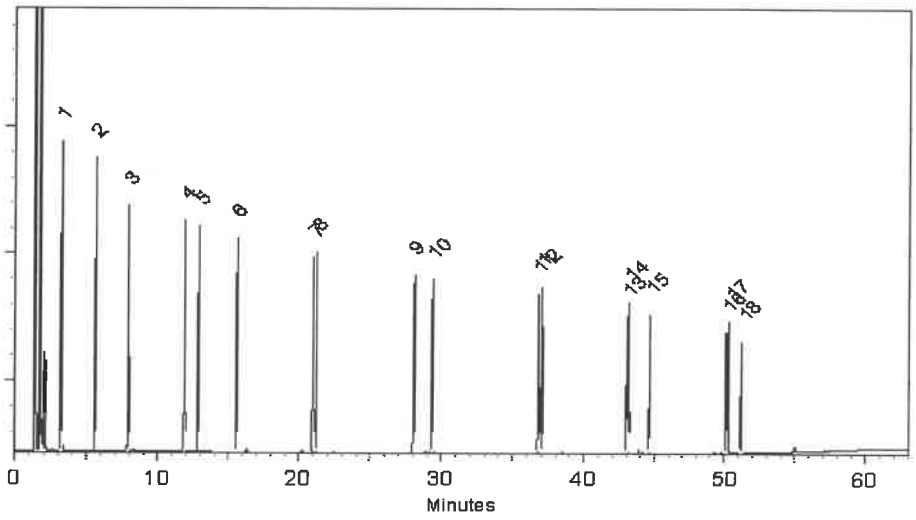
Inj. Temp:
250°C

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.

Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 → P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* 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.)

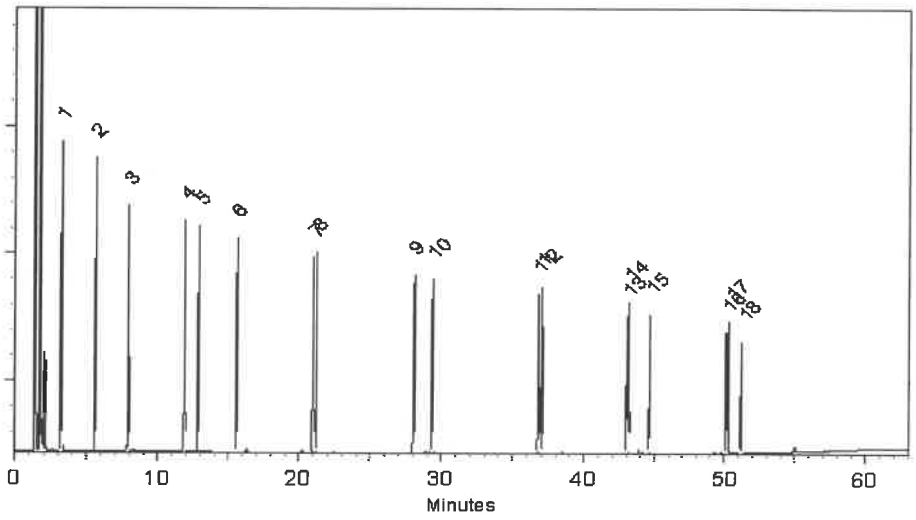
Inj. Temp:
250°C

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.

Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 ↓ P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* 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.)

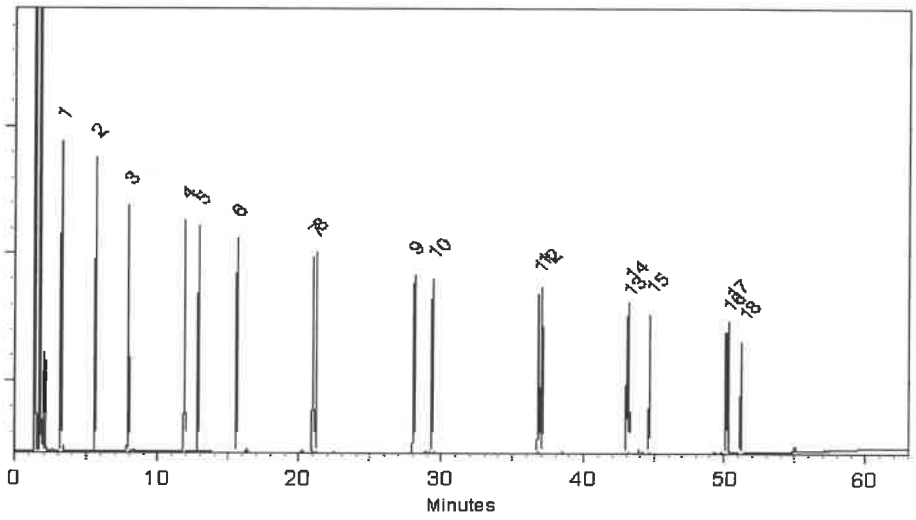
Inj. Temp:
250°C

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.

Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094 ↓ P14103 } AC 7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	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.)

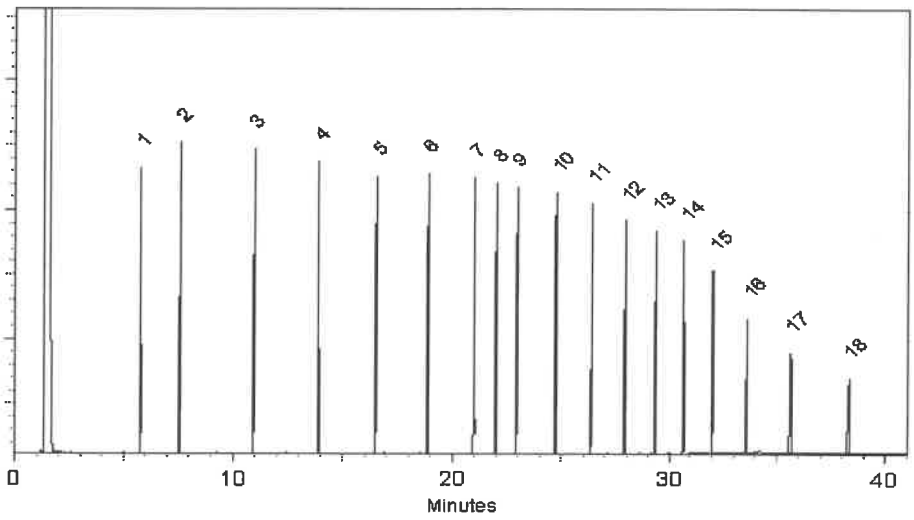
Inj. Temp:
250°C

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.

Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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

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Tel: 1-814-353-1300
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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.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094 ↓ P14103 } AC 7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	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.)

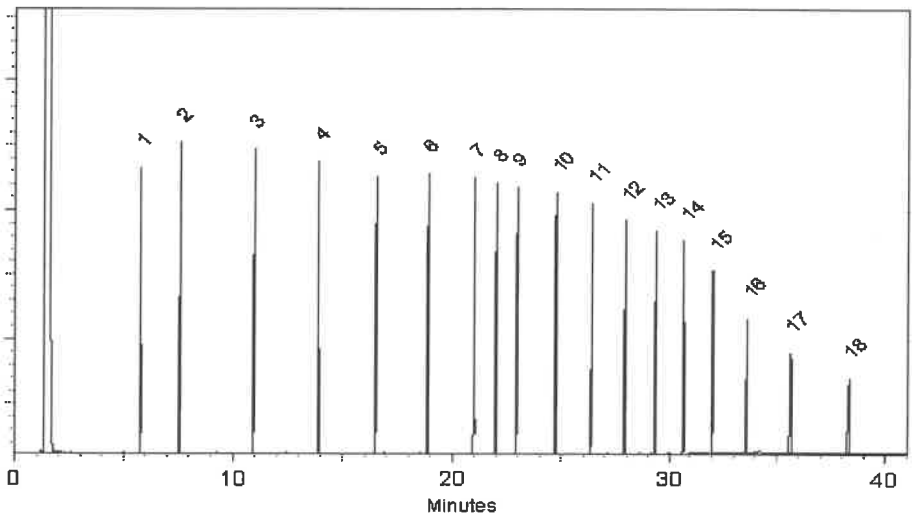
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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

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Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094 ↓ P14103 } AC 7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	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.)

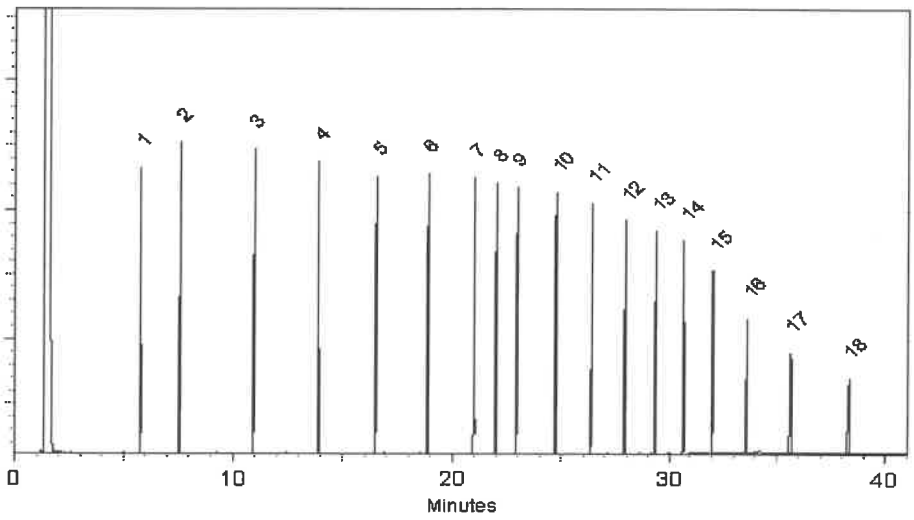
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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

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

Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094 ↓ P14103 } AC 7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	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.)

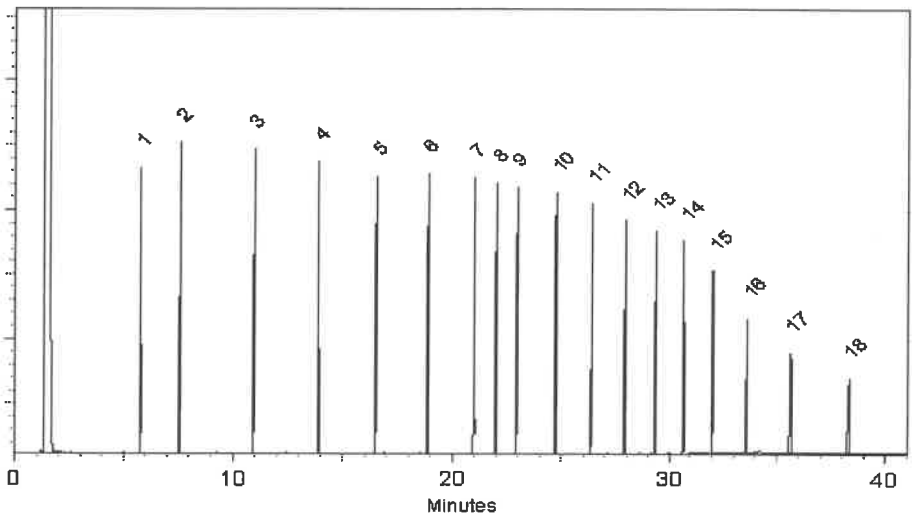
Inj. Temp:
250°C

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.

Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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

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Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094 ↓ P14103 } AC 7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

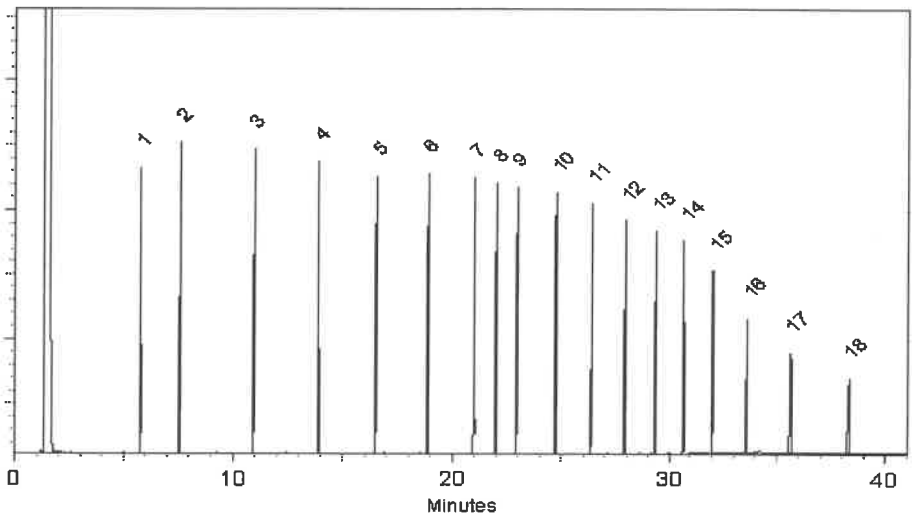
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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

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P14094 ↓ P14103 } AC 7/16/25

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3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
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6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
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Purity 99%

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

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hydrogen-constant pressure 10 psi.

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40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

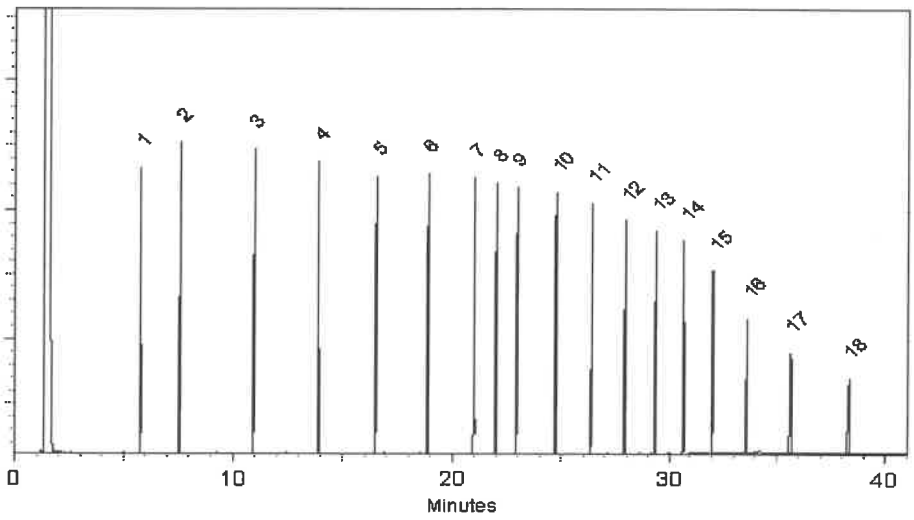
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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

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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. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094 ↓ P14103 } AC 7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	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.)

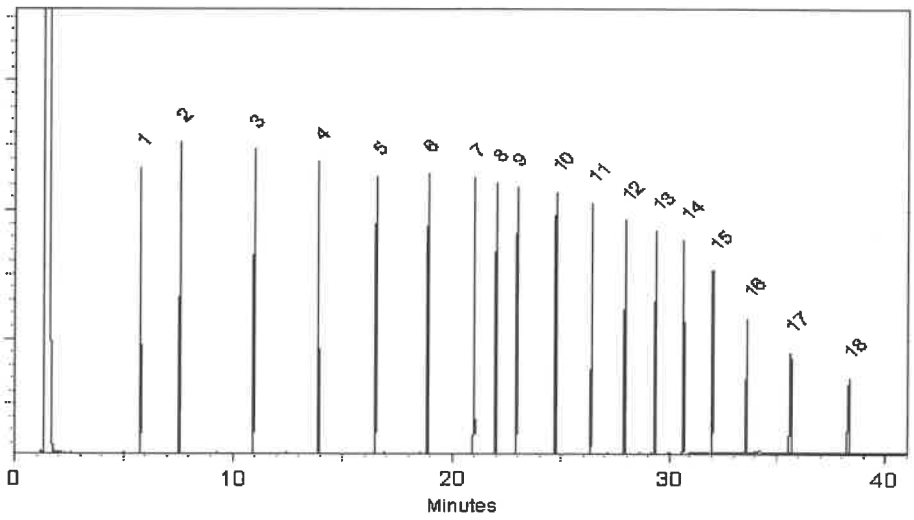
Inj. Temp:
250°C

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.

Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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

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Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094 ↓ P14103 } AC 7/16/25

CERTIFIED VALUES

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8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
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Purity 99%

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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.)

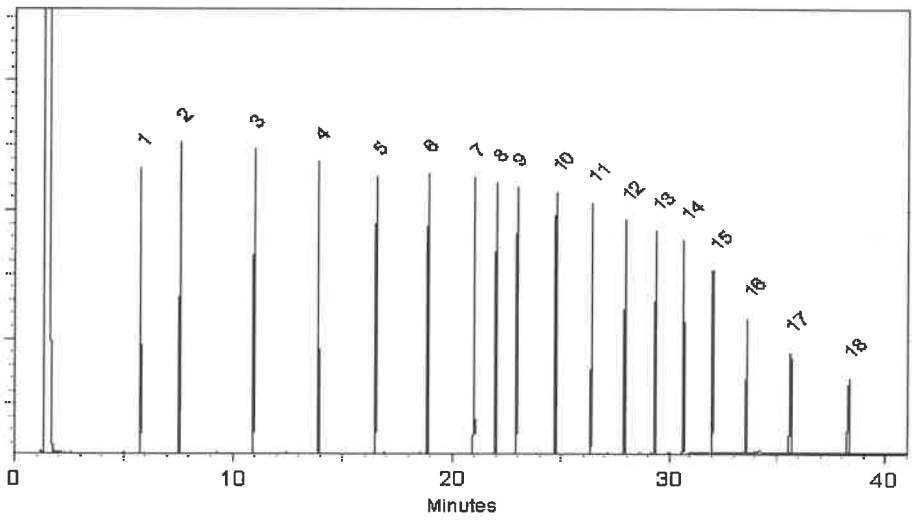
Inj. Temp:
250°C

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330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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

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P14094 ↓ P14103 } AC 7/16/25

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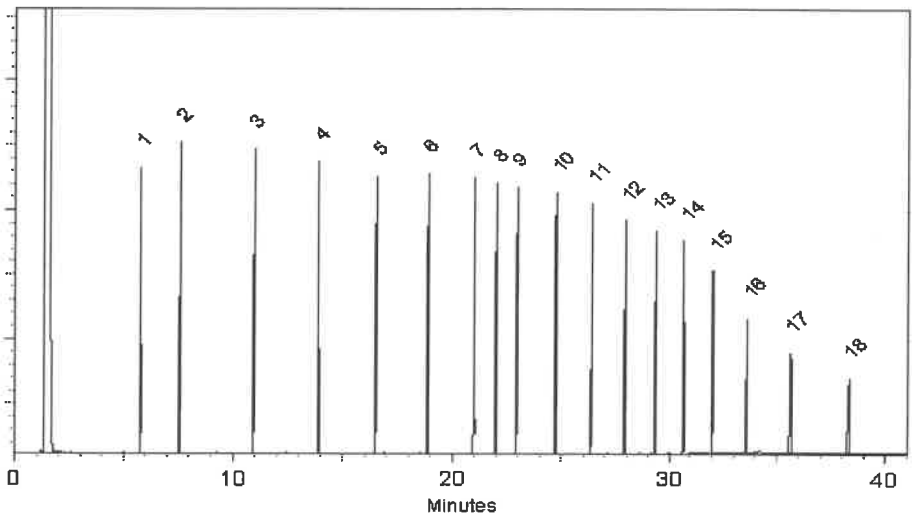
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Det. Type:
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Inj. Vol
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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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

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CAS # 109-66-0
Purity 99%

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Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

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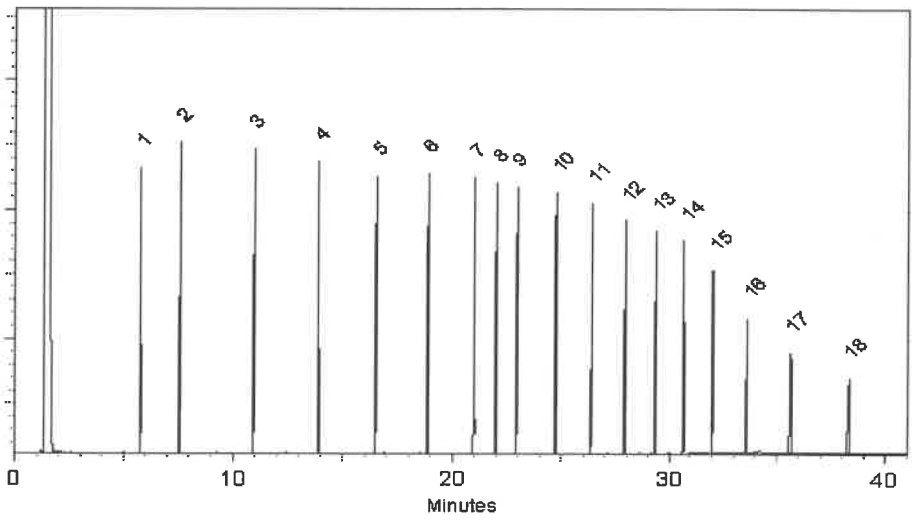
Inj. Temp:
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Det. Temp:
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Det. Type:
FID

Split Vent:
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Inj. Vol
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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

W3234 JB
Update: 07/28/2025

avantor™ | J.T.Baker

Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date:2026-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated C_6 Isomers) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

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

SHIPPING DOCUMENTS

Q3176
Q3177

USEPA

DateShipped: 9/23/2025

CarrierName: Hand-Delivered

AirbillNo:

CHAIN OF CUSTODY RECORD

Case #:

Contact Name: Leticia Campiglia

Contact Phone: 732-570-4993

No: 2-092325-0004-0049-01

Cooler #: 1 of 2

Lab: Alliance Technical Group LLC (non-CLP)

Lab Phone: 908-789-8900

Lab #	Sample #	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	EME-TS12-01	Percent Moisture	Soil	9/23/2025	12:08	1	4 oz jar w/ septum	4 C	
	EME-TS12-01	TAL SVOCs, PCBs, Pesticides	Soil	9/23/2025	12:08	2	8 oz amber glass jar	4 C	
	EME-TS12-01	TAL Metals + Hg and Cn	Soil	9/23/2025	12:08	1	8 oz clear glass jar	4 C	
	EME-TS12-01	EPH	Soil	9/23/2025	12:08	1	4 oz glass jar	4 C	
	EME-TS12-01	SPLP VOCs	Soil	9/23/2025	12:08	3	5 g Encore sampler	4 C	
	EME-TS12-01	SPLP SVOCs, Pesticides, PCBs	Soil	9/23/2025	12:08	2	8 oz amber glass jar	4 C	
	EME-TS12-01	SPLP Metals + Hg and Cn	Soil	9/23/2025	12:08	1	8 oz clear glass jar	4 C	
	EME-TS12-01	SPLP EPH	Soil	9/23/2025	12:08	1	4 oz glass jar	4 C	
	EME-TS12-01	TAL VOCs,	Soil	9/23/2025	12:08	3	5 g Encore sampler	4 C	
	EME-TS13-01	SPLP VOCs	Soil	9/23/2025	12:20	3	5 g Encore sampler	4 C	
	EME-TS13-01	TAL VOCs,	Soil	9/23/2025	12:20	3	5 g Encore sampler	4 C	
	EME-TS13-01	Percent Moisture	Soil	9/23/2025	12:20	1	4 oz jar w/ septum	4 C	
	EME-TS13-01	TAL SVOCs, PCBs, Pesticides	Soil	9/23/2025	12:20	2	8 oz amber glass jar	4 C	
	EME-TS13-01	EPH	Soil	9/23/2025	12:20	1	4 oz glass jar	4 C	
	EME-TS13-01	SPLP SVOCs, Pesticides, PCBs	Soil	9/23/2025	12:20	2	8 oz amber glass jar	4 C	
	EME-TS13-01	SPLP Metals + Hg and Cn	Soil	9/23/2025	12:20	1	8 oz clear glass jar	4 C	
	EME-TS13-01	SPLP EPH	Soil	9/23/2025	12:20	1	4 oz glass jar	4 C	
	EME-TS13-01	TAL Metals + Hg and Cn	Soil	9/23/2025	12:20	1	8 oz clear glass jar	4 C	

Special Instructions: RFP # 916. Please email results to leticia.campiglia@westonsolutions.com, smita.sumbaly@westonsolutions.com, ronan.clynch@westonsolutions.com and michael.lang@westonsolutions.com.
7 day preliminary TAT.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All samples	LC / START VI Weston	9/23/25 1700		9-23-25 1700	1.5°C IR GUN #1 custody seals intact Temp Blk present

Q3176
Q3177

USEPA

DateShipped: 9/23/2025

CarrierName: Hand-Delivered

AirbillNo:

CHAIN OF CUSTODY RECORD

Case #:

Contact Name: Leticia Campiglia

Contact Phone: 732-570-4993

No: 2-092325-0004-0049-01

Cooler #: 1 of 2

Lab: Alliance Technical Group LLC (non-CLP)

Lab Phone: 908-789-8900

Lab #	Sample #	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	EME-TS14-02	SPLP Metals + Hg and Cn	Soil	9/23/2025	12:57	1	8 oz clear glass jar	4 C	
	EME-TS14-02	TAL VOCs,	Soil	9/23/2025	12:57	3	5 g Encore sampler	4 C	
	EME-TS14-02	Percent Moisture	Soil	9/23/2025	12:57	1	4 oz jar w/ septum	4 C	
	EME-TS14-02	TAL SVOCs, PCBs, Pesticides	Soil	9/23/2025	12:57	2	8 oz amber glass jar	4 C	
	EME-TS14-02	EPH	Soil	9/23/2025	12:57	1	4 oz glass jar	4 C	
	EME-TS14-02	SPLP VOCs	Soil	9/23/2025	12:57	3	5 g Encore sampler	4 C	
	EME-TS14-02	SPLP SVOCs, Pesticides, PCBs	Soil	9/23/2025	12:57	2	8 oz amber glass jar	4 C	
	EME-TS14-02	SPLP EPH	Soil	9/23/2025	12:57	1	4 oz glass jar	4 C	
	EME-TS14-02	TAL Metals + Hg and Cn	Soil	9/23/2025	12:57	1	8 oz clear glass jar	4 C	

9/23/25

Special Instructions: RFP # 916. Please email results to leticia.campiglia@westonsolutions.com, smita.sumbaly@westonsolutions.com, ronan.clynch@westonsolutions.com and michael.lang@westonsolutions.com.
7 day preliminary TAT.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All samples	/ START V1 Weston	9/23/25 1700		9-23-25 1700	15° Dr Glow #1 custody seals intact Temp blk. present

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312