284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

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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LAB CHRONICLE

OrderID:	Q3192	**OrderDate:**	9/24/2025 5:05:00 PM
Client:	G Environmental	**Project:**	TGP
Contact:	Gary Landis	**Location:**	J13

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3192-01	**RB104**	**Solid**			**09/24/25**			**09/24/25**
			EPH	NJEPH		09/25/25	09/25/25	
Q3192-02	**RB105**	**Solid**			**09/24/25**			**09/24/25**
			EPH	NJEPH		09/25/25	09/25/25	

QC
SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: GENV01

Lab Code: ACE SDG No.: Q3192

Run Number: FC092625AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB169823BL	54			0
PB169823BS	78			0
PB169823BSD	80			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: GENV01

Lab Code: ACE SDG No.: Q3192

Run Number: FD092625AR

CLIENT SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
EME-TS14-01MS	84	66	67	0
EME-TS14-01MSD	84	67	67	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: GENV01

Lab Code: ACE SDG No.: Q3192

Run Number: FD100125AR

CLIENT SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB169823BL	88	89	98	0
PB169823BS	77	76	86	0
PB169823BSD	79	78	89	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: GENV01

Lab Code: ACE SDG No.: Q3192

Run Number: FF092525AR

CLIENT SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
RB104	100	82	58	0
RB105	108	101	63	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: GENV01

Lab Code: ACE SDG No.: Q3192

Run Number: FG092525AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
EME-TS14-01MS	92			0
EME-TS14-01MSD	93			0
RB104	86			0
RB104DL	90			0
RB105	115			0
RB105DL	86			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

	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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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** G Environmental

Lab Code: ACE **SDG No:** Q3192

Sample No : Q3178-02 **Datafile:** FD049768.D **Client ID :** Q3178-02

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aromatic C10-C12	9.3	0.49	8.98	91		(40-140)
Aromatic C12-C16	14.0	2.39	15.5	94		(40-140)
Aromatic C16-C21	23.3	3.83	34.3	130		(40-140)
Aromatic C21-C36	37.3	4.20	53.0	130		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** G Environmental

Lab Code: ACE **SDG No:** Q3192

Sample No : Q3178-03 **Datafile:** FD049769.D **Client ID :** Q3178-03

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS (%)	QC Limit Of RPD
Aromatic C10-C12	9.3	0.49	9.06	92		0.88 |	(40-140)	50
Aromatic C12-C16	14.0	2.39	15.5	94		0.11 |	(40-140)	50
Aromatic C16-C21	23.3	3.83	34.4	131		0.77 |	(40-140)	50
Aromatic C21-C36	37.3	4.20	53.0	130		0 |	(40-140)	50

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** G Environmental

Lab Code: ACE **SDG No:** Q3192

Sample No : Q3178-02 **Datafile:** FG016660.D **Client ID :** EME-TS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C9-C12	14.0	0.32	14.8	103		(40-140)
Aliphatic C12-C16	9.3	1.39	12.5	119		(40-140)
Aliphatic C16-C21	14.0	4.12	13.9	70		(40-140)
Aliphatic C21-C28	18.6	0	17.0	91		(40-140)
Aliphatic C28-C40	28.0	26.6	43.9	62		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** G Environmental

Lab Code: ACE **SDG No:** Q3192

Sample No : Q3178-03 **Datafile:** FG016661.D **Client ID :** EME-TS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS (%)	QC Limit Of RPD
Aliphatic C9-C12	14.0	0.32	14.7	102		0.98 |	(40-140)	50
Aliphatic C12-C16	9.3	1.39	12.3	116		2.55 |	(40-140)	50
Aliphatic C16-C21	14.0	4.12	13.6	68		3.2 |	(40-140)	50
Aliphatic C21-C28	18.7	0	16.7	90		1.88 |	(40-140)	50
Aliphatic C28-C40	28.0	26.6	43.5	60		2.29 |	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** G Environmental

Lab Code: ACE **SDG No:** Q3192

Sample No : PB169823BS **Datafile:** FC069855.D **Client ID :** PB169823BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C9-C12	10	5.20	52		(40-140)
Aliphatic C12-C16	6.7	4.49	67		(40-140)
Aliphatic C16-C21	10	7.34	74		(40-140)
Aliphatic C21-C28	13.3	9.80	74		(40-140)
Aliphatic C28-C40	20.0	16.1	81		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** G Environmental

Lab Code: ACE **SDG No:** Q3192

Sample No : PB169823BSD **Datafile:** FC069856.D **Client ID :** PB169823BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS (%)	QC Limit Of RPD
Aliphatic C9-C12	10	5.08	51		2.5|	(40-140)	25
Aliphatic C12-C16	6.7	4.42	66		1.6|	(40-140)	25
Aliphatic C16-C21	10	7.44	74		1.3|	(40-140)	25
Aliphatic C21-C28	13.3	10.2	77		3.9|	(40-140)	25
Aliphatic C28-C40	20.0	16.7	84		3.6|	(40-140)	25

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** G Environmental

Lab Code: ACE **SDG No:** Q3192

Sample No : PB169823BS **Datafile:** FD049784.D **Client ID :** PB169823BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aromatic C10-C12	6.7	4.45	67		(40-140)
Aromatic C12-C16	10	7.22	72		(40-140)
Aromatic C16-C21	16.7	14.6	88		(40-140)
Aromatic C21-C36	26.6	24.7	93		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** G Environmental

Lab Code: ACE **SDG No:** Q3192

Sample No : PB169823BSD **Datafile:** FD049786.D **Client ID :** PB169823BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS (%)	QC Limit Of RPD
Aromatic C10-C12	6.7	4.55	68		2.2|	(40-140)	25
Aromatic C12-C16	10	7.39	74		2.3|	(40-140)	25
Aromatic C16-C21	16.7	15.1	91		3.3|	(40-140)	25
Aromatic C21-C36	26.6	25.4	95		2.8|	(40-140)	25

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4B

METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB169823BL

Lab Name: Alliance Contract: GENV01

Lab Code: ACE SDG NO.: Q3192

Instrument ID: FID_C Lab Sample ID: PB169823BL

Matrix: (soil/water) Solid Date Extracted: 9/25/2025 8:15:00 A

Level: (low/med) low

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

CLIENT SAMPLE NO.	LAB SAMPLE ID
PB169823BS	PB169823BS
PB169823BSD	PB169823BSD
RB104	Q3192-01
RB105	Q3192-02

COMMENTS:

Alliance
TECHNICAL GROUP

SAMPLE DATA

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Report of Analysis

Client:	G Environmental			Date Collected:	09/24/25
Project:	TGP			Date Received:	09/24/25
Client Sample ID:	RB104			SDG No.:	Q3192
Lab Sample ID:	Q3192-01			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	94.8
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
09/25/25 08:15	09/25/25 15:50	PB169823

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	2.24		1	0.15	1.05	mg/kg	FG016648.D
Aliphatic C12-C16	Aliphatic C12-C16	8.38		1	0.12	0.70	mg/kg	FG016648.D
Aliphatic C16-C21	Aliphatic C16-C21	8.30		1	0.14	1.05	mg/kg	FG016648.D
Aliphatic C21-C28	Aliphatic C21-C28	27.4		1	0.56	1.41	mg/kg	FG016648.D
Aliphatic C28-C40	Aliphatic C28-C40	328		10	12.4	21.1	mg/kg	FG016650.D
Aromatic C10-C12	Aromatic C10-C12	0.79		1	0.13	0.70	mg/kg	FF016452.D
Aromatic C12-C16	Aromatic C12-C16	3.32		1	0.24	1.05	mg/kg	FF016452.D
Aromatic C16-C21	Aromatic C16-C21	8.62		1	0.42	1.76	mg/kg	FF016452.D
Aromatic C21-C36	Aromatic C21-C36	21.4		1	1.25	2.81	mg/kg	FF016452.D
Total AliphaticEPH	Total AliphaticEPH	374			13.4	25.3	mg/kg	
Total AromaticEPH	Total AromaticEPH	34.1			2.04	6.32	mg/kg	
Total EPH	Total EPH	408			15.4	31.6	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	G Environmental		Date Collected:	09/24/25	
Project:	TGP		Date Received:	09/24/25	
Client Sample ID:	RB104		SDG No.:	Q3192	
Lab Sample ID:	Q3192-01		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	94.8	
Sample Wt/Vol:	30.03	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016452.D	1	09/25/25	09/25/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.79		0.13	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16	3.32		0.24	1.05	mg/kg
Aromatic C16-C21	Aromatic C16-C21	8.62		0.42	1.76	mg/kg
Aromatic C21-C36	Aromatic C21-C36	21.4		1.25	2.81	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	50.0		40 - 140	100%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	41.1		40 - 140	82%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.8		40 - 140	58%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q3192-01	Acq On:	25 Sep 2025 15:50
Client Sample ID:	RB104	Operator:	YP\AJ
Data file:	FF016452.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	6.398	1610765	11.239	200	ug/ml
Aromatic C12-C16	6.399	9.102	6866180	47.292	300	ug/ml
Aromatic C16-C21	9.103	13.422	17681995	122.644	500	ug/ml
Aromatic C21-C36	13.423	18.876	39830694	304.437	800	ug/ml
Aromatic EPH	4.521	18.876	65989634	485.612		ug/ml
ortho-Terphenyl (SURR)	11.972	11.972	4382375	28.75		ug/ml
2-Bromonaphthalene (SURR)	8.028	8.028	6260500	49.98		ug/ml
2-Flurobiphenyl (SURR)	8.903	8.903	3469467	41.14		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016452.D
Signal(s) : FID2B.ch
Acq On : 25 Sep 2025 15:50
Operator : YP\AJ
Sample : Q3192-01
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
RB104

Integration File: autoint1.e
Quant Time: Sep 25 16:35:11 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	6260500	49.977 ug/ml
Spiked Amount 50.000		Recovery =	99.95%
6) S 2-Flurobiphenyl (SURR)	8.903	3469467	41.137 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	82.27%
11) S ortho-Terphenyl (SURR)	11.972	4382375	28.747 ug/ml
Spiked Amount 50.000		Recovery =	57.49%
Target Compounds			

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

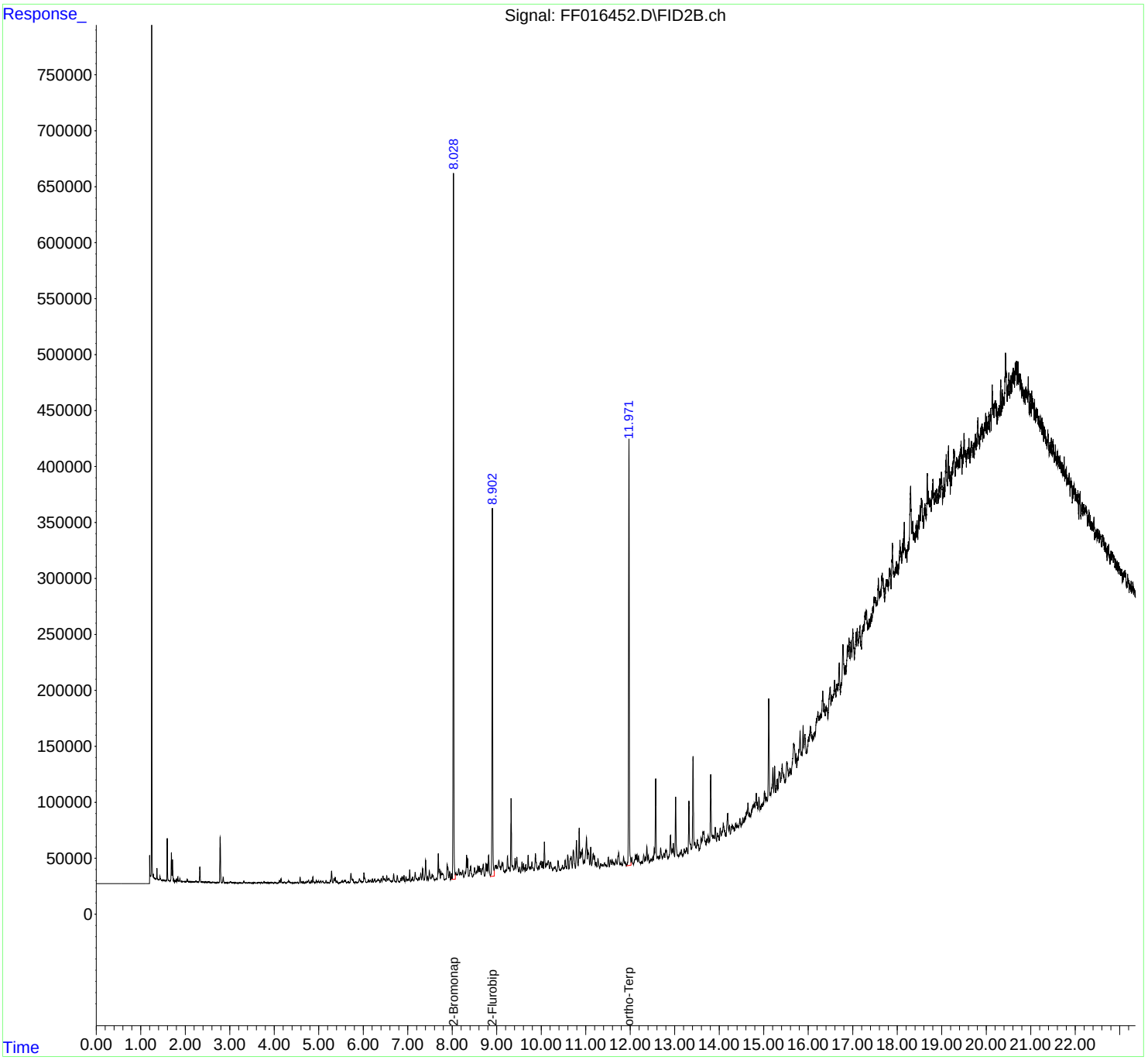
Quantitation Report (QT Reviewed)

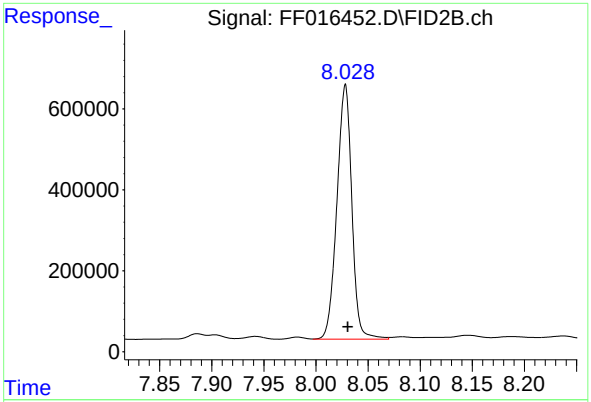
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016452.D
Signal(s) : FID2B.ch
Acq On : 25 Sep 2025 15:50
Operator : YP\AJ
Sample : Q3192-01
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
RB104

Integration File: autoint1.e
Quant Time: Sep 25 16:35:11 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

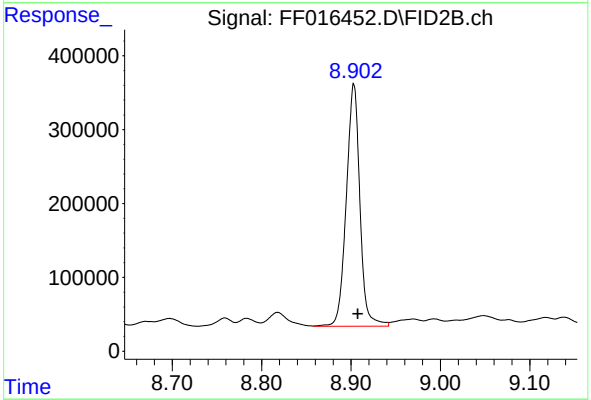




#4 2-Bromonaphthalene (SURR)

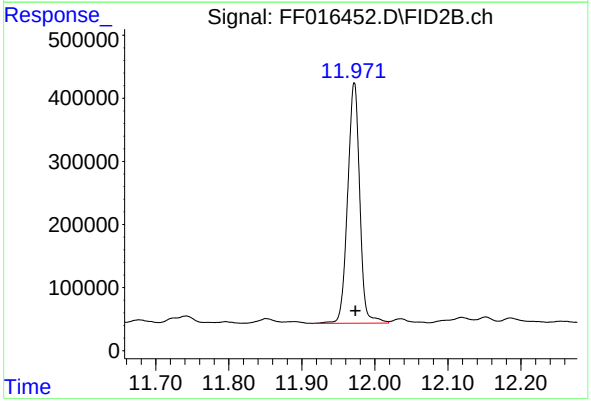
R.T.: 8.028 min
Delta R.T.: -0.003 min
Response: 6260500
Conc: 49.98 ug/ml

Instrument :
FID_F
ClientSampleId :
RB104



#6 2-Flurobiphenyl (SURR)

R.T.: 8.903 min
Delta R.T.: -0.005 min
Response: 3469467
Conc: 41.14 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.972 min
Delta R.T.: -0.002 min
Response: 4382375
Conc: 28.75 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016452.D
Signal(s) : FID2B.ch
Acq On : 25 Sep 2025 15:50
Sample : Q3192-01
Misc :
ALS Vial : 81 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	4.472	4.420	4.503	BV	550	6776	0.11%	0.008%
2	4.521	4.503	4.548	VV	1062	11545	0.18%	0.014%
3	4.582	4.548	4.604	VV	5220	56845	0.91%	0.071%
4	4.618	4.604	4.638	VV	1261	13930	0.22%	0.017%
5	4.656	4.638	4.678	VV	885	9631	0.15%	0.012%
6	4.711	4.678	4.722	PV	699	9943	0.16%	0.012%
7	4.738	4.722	4.755	VV	1432	19304	0.31%	0.024%
8	4.772	4.755	4.791	VV	2924	34989	0.56%	0.044%
9	4.799	4.791	4.819	VV	648	8316	0.13%	0.010%
10	4.835	4.819	4.851	VV	2542	25680	0.41%	0.032%
11	4.868	4.851	4.886	VV	5666	57740	0.92%	0.072%
12	4.892	4.886	4.910	VV	958	8704	0.14%	0.011%
13	4.945	4.910	4.960	VV	2473	34564	0.55%	0.043%
14	4.971	4.960	4.984	VV	1536	17309	0.28%	0.022%
15	5.000	4.984	5.017	VV	1783	23584	0.38%	0.029%
16	5.047	5.017	5.066	VV	2049	33844	0.54%	0.042%
17	5.092	5.066	5.139	VV	1859	35429	0.57%	0.044%
18	5.165	5.139	5.184	VV	2403	25721	0.41%	0.032%
19	5.201	5.184	5.240	VV	1050	14262	0.23%	0.018%
20	5.263	5.240	5.271	VV	2666	26445	0.42%	0.033%
21	5.289	5.271	5.320	VV	10670	134749	2.15%	0.168%
22	5.341	5.320	5.357	VV	4002	51702	0.83%	0.065%
23	5.371	5.357	5.391	VV	5226	60188	0.96%	0.075%
24	5.406	5.391	5.445	VV	2135	30340	0.48%	0.038%
25	5.471	5.445	5.481	PV	342	4875	0.08%	0.006%

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26	5.503	5.481	5.514	VV	1074	13945	0.22%	0.017%
27	5.527	5.514	5.553	VV	2508	32801	0.52%	0.041%
28	5.578	5.553	5.591	VV	2671	37991	0.61%	0.047%
29	5.602	5.591	5.620	VV	2552	27562	0.44%	0.034%
30	5.665	5.620	5.682	VV	1323	25826	0.41%	0.032%
31	5.692	5.682	5.700	VV	463	4397	0.07%	0.005%
32	5.724	5.700	5.747	VV	8410	123487	1.97%	0.154%
33	5.752	5.747	5.763	VV	3101	26849	0.43%	0.034%
34	5.771	5.763	5.790	VV	2716	27745	0.44%	0.035%
35	5.800	5.790	5.819	VV	615	8802	0.14%	0.011%
36	5.834	5.819	5.868	VV	791	12502	0.20%	0.016%
37	5.915	5.868	5.941	VV	3740	69802	1.12%	0.087%
38	5.951	5.941	5.967	VV	1588	16880	0.27%	0.021%
39	5.991	5.967	5.999	VV	1177	15553	0.25%	0.019%
40	6.016	5.999	6.034	VV	9154	106032	1.69%	0.132%
41	6.038	6.034	6.078	VV	3675	39248	0.63%	0.049%
42	6.116	6.078	6.131	VV	2746	35620	0.57%	0.044%
43	6.161	6.131	6.185	VV	2220	39081	0.62%	0.049%
44	6.205	6.185	6.225	VV	3263	41926	0.67%	0.052%
45	6.259	6.225	6.280	VV	3474	58337	0.93%	0.073%
46	6.335	6.280	6.349	VV	3295	75107	1.20%	0.094%
47	6.360	6.349	6.378	VV	2059	21633	0.35%	0.027%
48	6.405	6.378	6.421	PV	3504	48233	0.77%	0.060%
49	6.444	6.421	6.464	VV	5909	95740	1.53%	0.120%
50	6.482	6.464	6.512	VV	3352	66316	1.06%	0.083%
51	6.529	6.512	6.547	VV	5909	70117	1.12%	0.088%
52	6.550	6.547	6.559	VV	2390	15454	0.25%	0.019%
53	6.572	6.559	6.626	VV	3559	82193	1.31%	0.103%
54	6.633	6.626	6.648	VV	707	7332	0.12%	0.009%
55	6.684	6.648	6.724	VV	7324	109601	1.75%	0.137%
56	6.733	6.724	6.741	VV	562	4889	0.08%	0.006%
57	6.765	6.741	6.812	VV	5825	87023	1.39%	0.109%
58	6.848	6.812	6.861	VV	3228	44241	0.71%	0.055%
59	6.879	6.861	6.897	VV	4884	70197	1.12%	0.088%
60	6.915	6.897	6.938	VV	5860	72332	1.16%	0.090%
61	6.961	6.938	6.978	VV	4679	59393	0.95%	0.074%
62	6.991	6.978	7.002	VV	2391	24882	0.40%	0.031%
63	7.012	7.002	7.025	VV	2181	24831	0.40%	0.031%
64	7.044	7.025	7.065	VV	10698	108345	1.73%	0.135%
65	7.085	7.065	7.094	PV	1928	21351	0.34%	0.027%
66	7.110	7.094	7.135	VV	4259	54883	0.88%	0.069%
67	7.167	7.135	7.195	VV	8284	133100	2.13%	0.166%
68	7.205	7.195	7.228	VV	2475	34614	0.55%	0.043%
69	7.246	7.228	7.261	VV	3482	43098	0.69%	0.054%

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70	7.293	7.261	7.313	VV	6958	117432	1.88%	0.147%
71	7.335	7.313	7.370	VV	11432	166934	2.67%	0.208%
72	7.402	7.370	7.430	VV	18698	261471	4.18%	0.326%
73	7.446	7.430	7.463	VV	4129	44851	0.72%	0.056%
74	7.485	7.463	7.523	VV	8984	152752	2.44%	0.191%
75	7.549	7.523	7.561	VV	5906	89820	1.44%	0.112%
76	7.570	7.561	7.600	VV	4666	62139	0.99%	0.078%
77	7.614	7.600	7.623	VV	1125	10792	0.17%	0.013%
78	7.642	7.623	7.660	VV	1821	26267	0.42%	0.033%
79	7.687	7.660	7.703	VV	24020	275643	4.40%	0.344%
80	7.714	7.703	7.733	VV	9855	120619	1.93%	0.151%
81	7.747	7.733	7.759	VV	7761	84185	1.35%	0.105%
82	7.769	7.759	7.774	VV	5476	45085	0.72%	0.056%
83	7.781	7.774	7.827	VV	5836	112905	1.80%	0.141%
84	7.840	7.827	7.845	PV	496	3701	0.06%	0.005%
85	7.859	7.845	7.865	VV	1080	9336	0.15%	0.012%
86	7.886	7.865	7.896	VV	14004	150004	2.40%	0.187%
87	7.903	7.896	7.923	VV	11184	113639	1.82%	0.142%
88	7.942	7.923	7.965	VV	7192	87945	1.41%	0.110%
89	7.982	7.965	7.997	VV	5259	49730	0.79%	0.062%
90	8.028	7.997	8.069	VV	631764	6258642	100.00%	7.813%
91	8.083	8.069	8.099	VV	5809	83234	1.33%	0.104%
92	8.111	8.099	8.116	VV	4117	39806	0.64%	0.050%
93	8.146	8.116	8.168	VV	9222	188833	3.02%	0.236%
94	8.187	8.168	8.213	VV	5894	124126	1.98%	0.155%
95	8.237	8.213	8.260	VV	7379	127750	2.04%	0.159%
96	8.289	8.260	8.300	VV	5304	81052	1.30%	0.101%
97	8.323	8.300	8.335	VV	20727	251418	4.02%	0.314%
98	8.346	8.335	8.377	VV	17567	202238	3.23%	0.252%
99	8.414	8.377	8.457	VV	10655	238029	3.80%	0.297%
100	8.502	8.457	8.532	VV	8992	189065	3.02%	0.236%
101	8.546	8.532	8.556	VV	5567	65373	1.04%	0.082%
102	8.575	8.556	8.591	VV	10054	151013	2.41%	0.189%
103	8.607	8.591	8.621	VV	10066	133658	2.14%	0.167%
104	8.633	8.621	8.653	VV	7918	106380	1.70%	0.133%
105	8.670	8.653	8.680	VV	7396	91184	1.46%	0.114%
106	8.697	8.680	8.729	VV	11265	186331	2.98%	0.233%
107	8.759	8.729	8.771	VV	11725	142281	2.27%	0.178%
108	8.783	8.771	8.799	VV	11141	135467	2.16%	0.169%
109	8.818	8.799	8.858	VV	19136	292180	4.67%	0.365%
110	8.903	8.858	8.941	VV	327453	3467858	55.41%	4.329%
111	8.970	8.941	8.982	VV	9715	185868	2.97%	0.232%
112	8.993	8.982	9.006	VV	9720	122654	1.96%	0.153%

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113	9.048	9.006	9.069	VV	13905	377281	6.03%	0.471%
114	9.076	9.069	9.090	VV	8427	87544	1.40%	0.109%
115	9.118	9.090	9.128	VV	11311	199483	3.19%	0.249%
116	9.138	9.128	9.158	VV	11618	151302	2.42%	0.189%
117	9.164	9.158	9.181	VV	4074	45187	0.72%	0.056%
118	9.197	9.181	9.209	VV	4721	64068	1.02%	0.080%
119	9.217	9.209	9.223	VV	4257	35916	0.57%	0.045%
120	9.243	9.223	9.267	VV	17028	255250	4.08%	0.319%
121	9.279	9.267	9.300	VV	7182	117220	1.87%	0.146%
122	9.324	9.300	9.344	VV	68492	762750	12.19%	0.952%
123	9.352	9.344	9.380	VV	8464	153577	2.45%	0.192%
124	9.413	9.380	9.428	VV	14618	224690	3.59%	0.280%
125	9.453	9.428	9.494	VV	15149	326374	5.21%	0.407%
126	9.516	9.494	9.537	VV	6434	104781	1.67%	0.131%
127	9.569	9.537	9.586	VV	10778	162347	2.59%	0.203%
128	9.602	9.586	9.616	VV	9136	107697	1.72%	0.134%
129	9.624	9.616	9.637	VV	5151	52241	0.83%	0.065%
130	9.653	9.637	9.670	VV	8041	104649	1.67%	0.131%
131	9.707	9.670	9.725	VV	16503	256991	4.11%	0.321%
132	9.731	9.725	9.744	VV	5762	56329	0.90%	0.070%
133	9.757	9.744	9.770	VV	5762	75871	1.21%	0.095%
134	9.792	9.770	9.810	VV	10195	164216	2.62%	0.205%
135	9.816	9.810	9.836	VV	4750	58344	0.93%	0.073%
136	9.871	9.836	9.907	VV	17426	364326	5.82%	0.455%
137	9.912	9.907	9.926	VV	4330	40602	0.65%	0.051%
138	9.941	9.926	9.955	VV	6315	82038	1.31%	0.102%
139	9.974	9.955	9.984	VV	8792	110887	1.77%	0.138%
140	9.996	9.984	10.015	VV	10228	143029	2.29%	0.179%
141	10.033	10.015	10.051	VV	9660	139593	2.23%	0.174%
142	10.071	10.051	10.100	VV	27361	374221	5.98%	0.467%
143	10.117	10.100	10.135	VV	8158	141818	2.27%	0.177%
144	10.157	10.135	10.186	VV	9759	222763	3.56%	0.278%
145	10.208	10.186	10.260	VV	8769	217694	3.48%	0.272%
146	10.283	10.260	10.297	VV	3172	54632	0.87%	0.068%
147	10.311	10.297	10.348	VV	4251	71242	1.14%	0.089%
148	10.378	10.348	10.427	PV	9431	169491	2.71%	0.212%
149	10.456	10.427	10.461	VV	2488	32508	0.52%	0.041%
150	10.478	10.461	10.495	VV	4903	67595	1.08%	0.084%
151	10.537	10.495	10.555	VV	9474	154705	2.47%	0.193%
152	10.560	10.555	10.573	VV	3602	31467	0.50%	0.039%
153	10.596	10.573	10.622	VV	13925	219629	3.51%	0.274%
154	10.670	10.622	10.697	VV	12295	326789	5.22%	0.408%
155	10.719	10.697	10.768	VV	17902	386500	6.18%	0.482%

156	10.792	10.768	10.829	VV	26360	432030	6.90%	0.539%
157	10.853	10.829	10.870	VV	37145	470444	7.52%	0.587%
158	10.882	10.870	10.895	VV	15733	196011	3.13%	0.245%
159	10.907	10.895	10.912	VV	14414	128637	2.06%	0.161%
160	10.923	10.912	10.946	VV	17976	253727	4.05%	0.317%
161	10.962	10.946	10.975	VV	8053	109727	1.75%	0.137%
162	11.017	10.975	11.035	VV	28119	593830	9.49%	0.741%
163	11.049	11.035	11.060	VV	16552	201329	3.22%	0.251%
164	11.066	11.060	11.090	VV	14104	176170	2.81%	0.220%
165	11.112	11.090	11.132	VV	19392	249632	3.99%	0.312%
166	11.168	11.132	11.184	VV	13168	263585	4.21%	0.329%
167	11.196	11.184	11.217	VV	11388	155679	2.49%	0.194%
168	11.231	11.217	11.253	VV	5389	75293	1.20%	0.094%
169	11.275	11.253	11.315	VV	8416	135395	2.16%	0.169%
170	11.339	11.315	11.357	VV	3779	56276	0.90%	0.070%
171	11.375	11.357	11.395	VV	2803	50452	0.81%	0.063%
172	11.422	11.395	11.442	VV	4342	76945	1.23%	0.096%
173	11.452	11.442	11.475	VV	2492	34231	0.55%	0.043%
174	11.508	11.475	11.529	VV	9055	129641	2.07%	0.162%
175	11.558	11.529	11.577	VV	6209	109887	1.76%	0.137%
176	11.593	11.577	11.613	VV	6723	97280	1.55%	0.121%
177	11.621	11.613	11.638	VV	3706	43822	0.70%	0.055%
178	11.651	11.638	11.660	VV	3403	36312	0.58%	0.045%
179	11.677	11.660	11.705	VV	6537	115938	1.85%	0.145%
180	11.742	11.705	11.780	VV	12522	286057	4.57%	0.357%
181	11.796	11.780	11.817	VV	3335	45179	0.72%	0.056%
182	11.851	11.817	11.874	VV	7962	128500	2.05%	0.160%
183	11.889	11.874	11.915	VV	2990	46919	0.75%	0.059%
184	11.972	11.915	12.019	PV	381416	4384959	70.06%	5.474%
185	12.035	12.019	12.075	VV	6816	103327	1.65%	0.129%
186	12.119	12.075	12.136	VV	8758	173312	2.77%	0.216%
187	12.152	12.136	12.169	VV	9121	116525	1.86%	0.145%
188	12.186	12.169	12.236	VV	7280	127386	2.04%	0.159%
189	12.254	12.236	12.274	VV	1757	22018	0.35%	0.027%
190	12.304	12.274	12.325	PV	7625	118345	1.89%	0.148%
191	12.341	12.325	12.354	VV	5503	63092	1.01%	0.079%
192	12.374	12.354	12.393	VV	14661	189867	3.03%	0.237%
193	12.408	12.393	12.430	VV	6378	74725	1.19%	0.093%
194	12.477	12.430	12.491	VV	2606	49328	0.79%	0.062%
195	12.507	12.491	12.520	VV	4205	39777	0.64%	0.050%
196	12.541	12.520	12.552	VV	11729	138111	2.21%	0.172%
197	12.573	12.552	12.602	VV	73287	885131	14.14%	1.105%
198	12.619	12.602	12.639	VV	3936	64751	1.03%	0.081%
199	12.654	12.639	12.667	VV	4090	44856	0.72%	0.056%

200	12.685	12.667	12.719	VV	10793	175336	2.80%	0.219%
201	12.758	12.719	12.778	VV	5514	113037	1.81%	0.141%
202	12.796	12.778	12.803	VV	7901	77276	1.23%	0.096%
203	12.814	12.803	12.841	VV	7511	109655	1.75%	0.137%
204	12.856	12.841	12.861	VV	1152	10548	0.17%	0.013%
205	12.906	12.861	12.930	VV	20569	337841	5.40%	0.422%
206	12.943	12.930	12.954	VV	7723	89374	1.43%	0.112%
207	12.970	12.954	12.998	VV	12821	165785	2.65%	0.207%
208	13.022	12.998	13.068	VV	53646	676746	10.81%	0.845%
209	13.078	13.068	13.092	VV	943	8758	0.14%	0.011%
210	13.100	13.092	13.105	VV	985	4936	0.08%	0.006%
211	13.122	13.105	13.135	VV	3001	39579	0.63%	0.049%
212	13.150	13.135	13.170	VV	5423	58231	0.93%	0.073%
213	13.183	13.170	13.192	PV	1007	7613	0.12%	0.010%
214	13.215	13.192	13.235	VV	5677	81946	1.31%	0.102%
215	13.270	13.235	13.297	VV	5419	119114	1.90%	0.149%
216	13.320	13.297	13.373	VV	47297	694965	11.10%	0.868%
217	13.412	13.373	13.441	VV	85848	1170964	18.71%	1.462%
218	13.454	13.441	13.481	VV	8338	136632	2.18%	0.171%
219	13.509	13.481	13.552	VV	9883	220123	3.52%	0.275%
220	13.593	13.552	13.614	PV	10528	204381	3.27%	0.255%
221	13.635	13.614	13.644	VV	14679	210635	3.37%	0.263%
222	13.655	13.644	13.701	VV	14949	285479	4.56%	0.356%
223	13.719	13.701	13.731	VV	6426	80001	1.28%	0.100%
224	13.748	13.731	13.771	VV	9084	138154	2.21%	0.172%
225	13.809	13.771	13.836	VV	62689	855373	13.67%	1.068%
226	13.840	13.836	13.857	VV	7222	82256	1.31%	0.103%
227	13.875	13.857	13.889	VV	6755	104186	1.66%	0.130%
228	13.911	13.889	13.941	VV	13328	207714	3.32%	0.259%
229	13.960	13.941	14.000	VV	7190	123325	1.97%	0.154%
230	14.022	14.000	14.048	VV	9879	161045	2.57%	0.201%
231	14.063	14.048	14.069	VV	6799	71614	1.14%	0.089%
232	14.092	14.069	14.144	VV	12521	311084	4.97%	0.388%
233	14.149	14.144	14.153	VV	1391	4312	0.07%	0.005%
234	14.189	14.153	14.215	VV	19637	385549	6.16%	0.481%
235	14.232	14.215	14.250	VV	8721	103325	1.65%	0.129%
236	14.294	14.250	14.306	PV	6914	151210	2.42%	0.189%
237	14.321	14.306	14.336	VV	4616	57492	0.92%	0.072%
238	14.344	14.336	14.349	VV	1837	6658	0.11%	0.008%
239	14.369	14.349	14.389	VV	6738	96661	1.54%	0.121%
240	14.402	14.389	14.419	VV	4045	47899	0.77%	0.060%
241	14.465	14.419	14.491	VV	7526	137368	2.19%	0.171%
242	14.501	14.491	14.508	PV	1680	9001	0.14%	0.011%

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243	14.530	14.508	14.551	VV	6473	84784	1.35%	0.106%
244	14.566	14.551	14.570	VV	4871	35214	0.56%	0.044%
245	14.577	14.570	14.586	VV	4734	34355	0.55%	0.043%
246	14.610	14.586	14.617	VV	8279	110160	1.76%	0.138%
247	14.645	14.617	14.664	VV	15610	264154	4.22%	0.330%
248	14.670	14.664	14.696	VV	4803	66098	1.06%	0.083%
249	14.701	14.696	14.706	VV	2289	10900	0.17%	0.014%
250	14.754	14.706	14.765	VV	9764	209268	3.34%	0.261%
251	14.787	14.765	14.809	VV	10105	217304	3.47%	0.271%
252	14.833	14.809	14.849	VV	17439	282869	4.52%	0.353%
253	14.856	14.849	14.873	VV	7866	75742	1.21%	0.095%
254	14.892	14.873	14.922	VV	12113	159311	2.55%	0.199%
255	14.931	14.922	14.940	PV	1611	11101	0.18%	0.014%
256	14.957	14.940	14.970	VV	3684	35562	0.57%	0.044%
257	15.017	14.970	15.039	VV	12691	215315	3.44%	0.269%
258	15.058	15.039	15.082	VV	5392	81352	1.30%	0.102%
259	15.112	15.082	15.152	VV	90379	1203747	19.23%	1.503%
260	15.157	15.152	15.161	VV	3827	17279	0.28%	0.022%
261	15.206	15.161	15.225	VV	25258	432580	6.91%	0.540%
262	15.246	15.225	15.269	VV	24355	288863	4.62%	0.361%
263	15.304	15.269	15.320	VV	10318	159466	2.55%	0.199%
264	15.346	15.320	15.364	VV	15342	266022	4.25%	0.332%
265	15.367	15.364	15.378	VV	13769	81761	1.31%	0.102%
266	15.415	15.378	15.477	VV	19205	526139	8.41%	0.657%
267	15.483	15.477	15.485	PV	1837	5007	0.08%	0.006%
268	15.519	15.485	15.560	VV	16776	386806	6.18%	0.483%
269	15.596	15.560	15.609	VV	7104	123035	1.97%	0.154%
270	15.616	15.609	15.620	VV	1816	6199	0.10%	0.008%
271	15.641	15.620	15.645	VV	10114	84642	1.35%	0.106%
272	15.671	15.645	15.713	VV	25391	701647	11.21%	0.876%
273	15.726	15.713	15.743	VV	13869	138958	2.22%	0.173%
274	15.759	15.743	15.774	PV	7603	93840	1.50%	0.117%
275	15.789	15.774	15.794	VV	13776	124311	1.99%	0.155%
276	15.818	15.794	15.853	VV	28181	501622	8.01%	0.626%
277	15.885	15.853	15.906	VV	29786	458012	7.32%	0.572%
278	15.926	15.906	15.961	VV	19676	370597	5.92%	0.463%
279	16.006	15.961	16.012	PV	12389	171723	2.74%	0.214%
280	16.017	16.012	16.023	VV	10882	59528	0.95%	0.074%
281	16.053	16.023	16.073	VV	18397	412500	6.59%	0.515%
282	16.082	16.073	16.093	VV	9399	86713	1.39%	0.108%
283	16.115	16.093	16.120	VV	5300	72212	1.15%	0.090%
284	16.135	16.120	16.149	VV	7689	107334	1.71%	0.134%
285	16.187	16.149	16.199	VV	17345	324782	5.19%	0.405%

286	16.217	16.199	16.234	VV	21196	361273	5.77%	0.451%
287	16.253	16.234	16.267	VV	15526	260290	4.16%	0.325%
288	16.280	16.267	16.290	VV	14422	179173	2.86%	0.224%
289	16.294	16.290	16.297	VV	13142	49366	0.79%	0.062%
290	16.327	16.297	16.349	VV	32004	684419	10.94%	0.854%
291	16.361	16.349	16.383	VV	18767	264558	4.23%	0.330%
292	16.397	16.383	16.407	VV	13677	156375	2.50%	0.195%
293	16.417	16.407	16.445	VV	11543	164079	2.62%	0.205%
294	16.497	16.445	16.514	PV	24400	605170	9.67%	0.755%
295	16.527	16.514	16.540	VV	14887	168273	2.69%	0.210%
296	16.562	16.540	16.567	VV	12691	164639	2.63%	0.206%
297	16.594	16.567	16.622	VV	22726	487379	7.79%	0.608%
298	16.642	16.622	16.670	VV	15438	314837	5.03%	0.393%
299	16.697	16.670	16.722	VV	30391	510827	8.16%	0.638%
300	16.782	16.722	16.814	PV	40038	1001756	16.01%	1.251%
301	16.832	16.814	16.849	VV	17321	267401	4.27%	0.334%
302	16.886	16.849	16.897	VV	30661	620398	9.91%	0.774%
303	16.916	16.897	16.939	VV	35757	666723	10.65%	0.832%
304	16.959	16.939	16.980	VV	28236	520347	8.31%	0.650%
305	17.003	16.980	17.036	VV	36536	735553	11.75%	0.918%
306	17.071	17.036	17.086	VV	28323	510271	8.15%	0.637%
307	17.103	17.086	17.120	VV	29160	452040	7.22%	0.564%
308	17.126	17.120	17.132	VV	16304	109562	1.75%	0.137%
309	17.159	17.132	17.197	VV	26743	609437	9.74%	0.761%
310	17.208	17.197	17.226	VV	17155	242395	3.87%	0.303%
311	17.284	17.226	17.296	VV	29193	896026	14.32%	1.119%
312	17.314	17.296	17.355	VV	28204	654479	10.46%	0.817%
313	17.363	17.355	17.367	VV	14195	83820	1.34%	0.105%
314	17.371	17.367	17.379	VV	16533	91286	1.46%	0.114%
315	17.382	17.379	17.390	VV	13378	73402	1.17%	0.092%
316	17.399	17.390	17.404	VV	15787	101360	1.62%	0.127%
317	17.413	17.404	17.423	VV	17763	148577	2.37%	0.185%
318	17.449	17.423	17.469	VV	20383	425216	6.79%	0.531%
319	17.479	17.469	17.496	VV	27030	365643	5.84%	0.456%
320	17.513	17.496	17.527	VV	24499	392712	6.27%	0.490%
321	17.549	17.527	17.557	VV	18967	303342	4.85%	0.379%
322	17.578	17.557	17.598	VV	36428	626829	10.02%	0.782%
323	17.605	17.598	17.611	VV	22689	155557	2.49%	0.194%
324	17.663	17.611	17.677	VV	34292	947725	15.14%	1.183%
325	17.683	17.677	17.718	VV	28402	407263	6.51%	0.508%
326	17.755	17.718	17.762	VV	21282	379443	6.06%	0.474%
327	17.773	17.762	17.787	VV	19439	259273	4.14%	0.324%
328	17.792	17.787	17.797	VV	16054	79483	1.27%	0.099%
329	17.826	17.797	17.832	VV	25859	375489	6.00%	0.469%

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330	17.841	17.832	17.861	VV	22404	268348	4.29%	0.335%
331	17.891	17.861	17.914	VV	40133	767579	12.26%	0.958%
332	17.922	17.914	17.930	VV	15041	136480	2.18%	0.170%
333	17.963	17.930	17.968	VV	16665	287657	4.60%	0.359%
334	17.982	17.968	18.006	VV	18122	303528	4.85%	0.379%
335	18.012	18.006	18.028	VV	13595	116939	1.87%	0.146%
336	18.044	18.028	18.049	VV	19008	159546	2.55%	0.199%
337	18.062	18.049	18.100	VV	31463	627399	10.02%	0.783%
338	18.132	18.100	18.138	VV	27874	442903	7.08%	0.553%
339	18.159	18.138	18.190	VV	40441	720937	11.52%	0.900%
340	18.196	18.190	18.202	VV	12277	65831	1.05%	0.082%
341	18.208	18.202	18.219	VV	12430	66576	1.06%	0.083%
342	18.249	18.219	18.262	PV	15349	256402	4.10%	0.320%
343	18.300	18.262	18.329	VV	61368	1384835	22.13%	1.729%
344	18.349	18.329	18.369	VV	25518	441186	7.05%	0.551%
345	18.373	18.369	18.382	VV	14602	84192	1.35%	0.105%
346	18.394	18.382	18.401	VV	11680	102103	1.63%	0.127%
347	18.411	18.401	18.415	VV	12017	67332	1.08%	0.084%
348	18.422	18.415	18.434	VV	16838	122012	1.95%	0.152%
349	18.445	18.434	18.463	VV	18505	166748	2.66%	0.208%
350	18.482	18.463	18.495	VV	20523	231456	3.70%	0.289%
351	18.514	18.495	18.524	VV	26960	303685	4.85%	0.379%
352	18.542	18.524	18.569	VV	30593	593117	9.48%	0.740%
353	18.576	18.569	18.588	VV	12510	91476	1.46%	0.114%
354	18.594	18.588	18.598	PV	8425	26392	0.42%	0.033%
355	18.609	18.598	18.615	VV	15845	119165	1.90%	0.149%
356	18.622	18.615	18.631	VV	18769	131801	2.11%	0.165%
357	18.638	18.631	18.652	VV	13977	103531	1.65%	0.129%
358	18.674	18.652	18.699	VV	40880	629385	10.06%	0.786%
359	18.703	18.699	18.724	VV	20730	206418	3.30%	0.258%
360	18.739	18.724	18.745	VV	13347	111625	1.78%	0.139%
361	18.749	18.745	18.764	VV	10410	64596	1.03%	0.081%
362	18.791	18.764	18.796	PV	21546	210767	3.37%	0.263%
363	18.805	18.796	18.842	VV	22486	254990	4.07%	0.318%
			Sum of corrected areas:			80107867		

Aromatic EPH 092425.M Thu Sep 25 16:44:06 2025

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

Report of Analysis

Client:	G Environmental		Date Collected:	09/24/25	
Project:	TGP		Date Received:	09/24/25	
Client Sample ID:	RB104		SDG No.:	Q3192	
Lab Sample ID:	Q3192-01		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	94.8	
Sample Wt/Vol:	30.03	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG016648.D	1	09/25/25	09/25/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	2.24		0.15	1.05	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	8.38		0.12	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.30		0.14	1.05	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	27.4		0.56	1.41	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	337	E	1.24	2.11	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	42.9		40 - 140	86%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	1.24		40 - 140	2%	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:	Q3192-01	Acq On:	25 Sep 2025 15:50
Client Sample ID:	RB104	Operator:	YP\AJ
Data file:	FG016648.D	Misc:	
Instrument:	FID_G	ALS Vial:	31
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.279	6.920	3687852	31.928	300	ug/ml
Aliphatic C12-C16	6.921	10.379	14383701	119.255	200	ug/ml
Aliphatic C16-C21	10.380	13.768	15276704	118.159	300	ug/ml
Aliphatic C21-C28	13.769	17.453	50308841	390.476	400	ug/ml
Aliphatic C28-C40	17.454	22.488	487307687	4800	600	ug/ml
Aliphatic EPH	3.279	22.488	570964785	5460		ug/ml
ortho-Terphenyl (SURR)	12.047	12.047	176164	1.24		ug/ml
1-chlorooctadecane (SURR)	13.505	13.505	4846190	42.94		ug/ml
Aliphatic C9-C28	3.279	17.453	83657098	659.818	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016648.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 15:50
Operator : YP\AJ
Sample : Q3192-01
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RB104

Integration File: autoint1.e
Quant Time: Sep 25 16:46:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 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...	13.505	4846190	42.935 ug/ml
Spiked Amount 50.000		Recovery = 85.87%	
Target Compounds			

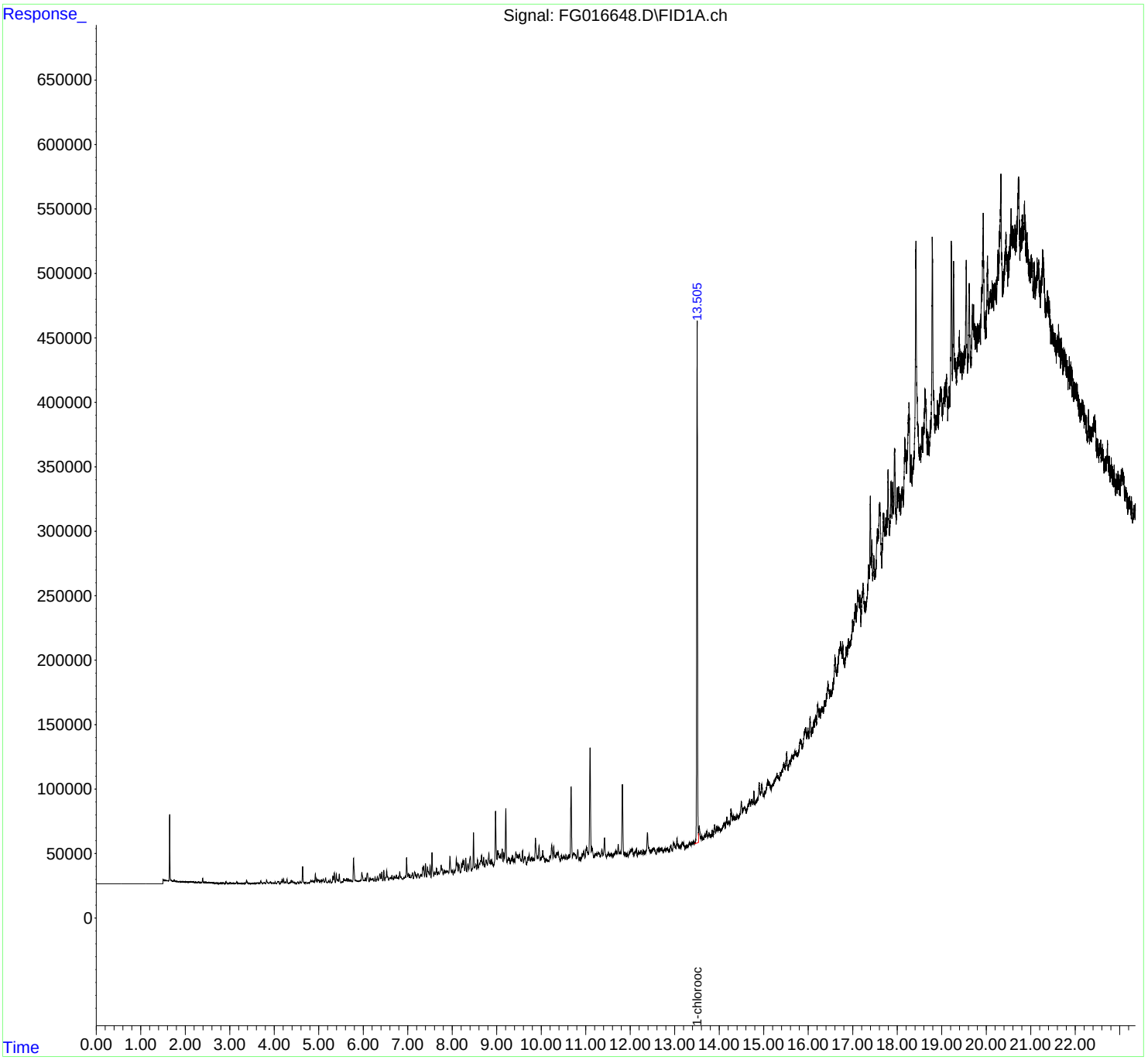
(f)=RT Delta > 1/2 Window (m)=manual int.

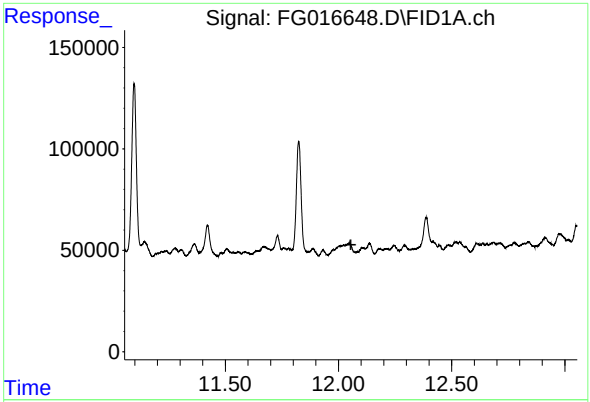
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016648.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 15:50
Operator : YP\AJ
Sample : Q3192-01
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RB104

Integration File: autoint1.e
Quant Time: Sep 25 16:46:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

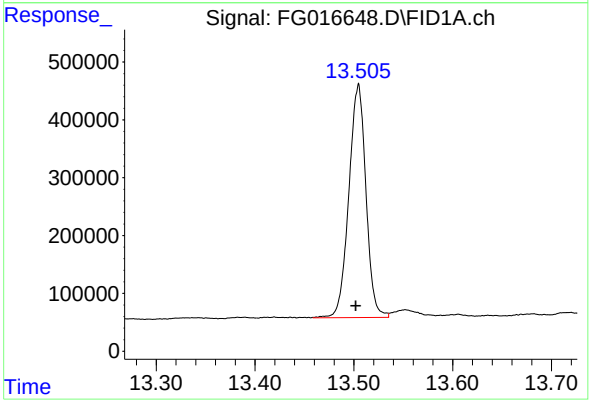




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.055 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
RB104



#12 1-chlorooctadecane (SURR)

R.T.: 13.505 min
Delta R.T.: 0.003 min
Response: 4846190
Conc: 42.94 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016648.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 15:50
Sample : Q3192-01
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.302	3.255	3.318	BV	98	745	0.00%	0.000%
2	3.341	3.318	3.351	PV	238	2411	0.01%	0.000%
3	3.378	3.351	3.416	VV	2768	42231	0.23%	0.007%
4	3.427	3.416	3.463	VV	378	5611	0.03%	0.001%
5	3.495	3.463	3.507	PV	208	2717	0.02%	0.000%
6	3.524	3.507	3.538	VV	512	6299	0.03%	0.001%
7	3.552	3.538	3.578	VV	550	7253	0.04%	0.001%
8	3.595	3.578	3.607	VV	489	6363	0.04%	0.001%
9	3.623	3.607	3.645	VV	784	11470	0.06%	0.002%
10	3.661	3.645	3.676	VV	480	6406	0.04%	0.001%
11	3.696	3.676	3.741	VV	1709	30859	0.17%	0.005%
12	3.772	3.741	3.808	VV	993	19965	0.11%	0.003%
13	3.829	3.808	3.876	VV	2761	46447	0.26%	0.008%
14	3.912	3.876	3.948	VV	1568	32702	0.18%	0.006%
15	3.968	3.948	4.002	VV	821	15660	0.09%	0.003%
16	4.018	4.002	4.043	VV	1208	12847	0.07%	0.002%
17	4.079	4.043	4.131	VV	1772	44563	0.25%	0.008%
18	4.177	4.131	4.193	PV	3590	50938	0.28%	0.009%
19	4.210	4.193	4.230	VV	3844	44496	0.25%	0.008%
20	4.246	4.230	4.266	VV	1403	21187	0.12%	0.004%
21	4.287	4.266	4.311	VV	3571	44889	0.25%	0.008%
22	4.324	4.311	4.335	VV	365	4590	0.03%	0.001%
23	4.380	4.335	4.395	VV	2609	41667	0.23%	0.007%
24	4.410	4.395	4.438	VV	2243	35384	0.20%	0.006%
25	4.450	4.438	4.495	VV	1065	18593	0.10%	0.003%
26	4.533	4.495	4.555	PV	1517	24387	0.13%	0.004%
27	4.580	4.555	4.606	VV	1527	24853	0.14%	0.004%
28	4.638	4.606	4.692	VV	13219	157452	0.87%	0.028%
29	4.713	4.692	4.737	VV	1190	15943	0.09%	0.003%
30	4.767	4.737	4.781	VV	630	9521	0.05%	0.002%
31	4.826	4.781	4.841	VV	2154	43174	0.24%	0.008%

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32	4.855	4.841	4.875	VV	2069	32949	0.18%	0.006%
33	4.892	4.875	4.906	VV	2310	28898	0.16%	0.005%
34	4.925	4.906	4.940	VV	7408	76320	0.42%	0.013%
35	4.950	4.940	4.966	VV	3547	36724	0.20%	0.006%
36	4.985	4.966	4.996	VV	2599	36465	0.20%	0.006%
37	5.004	4.996	5.021	VV	2655	28847	0.16%	0.005%
38	5.057	5.021	5.072	VV	2933	51565	0.29%	0.009%
39	5.103	5.072	5.125	VV	3300	64798	0.36%	0.011%
40	5.155	5.125	5.193	VV	4141	67899	0.38%	0.012%
41	5.221	5.193	5.238	VV	2031	28976	0.16%	0.005%
42	5.257	5.238	5.280	VV	2532	34287	0.19%	0.006%
43	5.319	5.280	5.332	VV	5388	68174	0.38%	0.012%
44	5.350	5.332	5.374	VV	7965	100845	0.56%	0.018%
45	5.395	5.374	5.416	VV	7058	89293	0.49%	0.016%
46	5.427	5.416	5.442	VV	2841	34726	0.19%	0.006%
47	5.462	5.442	5.500	VV	6967	91286	0.50%	0.016%
48	5.529	5.500	5.542	PV	961	15781	0.09%	0.003%
49	5.563	5.542	5.577	VV	3477	43600	0.24%	0.008%
50	5.587	5.577	5.610	VV	2268	37710	0.21%	0.007%
51	5.628	5.610	5.643	VV	3530	48075	0.27%	0.008%
52	5.659	5.643	5.675	VV	3200	40562	0.22%	0.007%
53	5.689	5.675	5.706	VV	2044	30777	0.17%	0.005%
54	5.724	5.706	5.741	VV	2195	32027	0.18%	0.006%
55	5.753	5.741	5.761	VV	1007	9672	0.05%	0.002%
56	5.784	5.761	5.818	VV	18706	271563	1.50%	0.047%
57	5.828	5.818	5.843	VV	1859	21222	0.12%	0.004%
58	5.857	5.843	5.871	VV	1402	18455	0.10%	0.003%
59	5.881	5.871	5.894	VV	769	9267	0.05%	0.002%
60	5.913	5.894	5.925	VV	1265	16866	0.09%	0.003%
61	5.937	5.925	5.947	VV	1430	14680	0.08%	0.003%
62	5.970	5.947	6.022	VV	7316	139945	0.77%	0.024%
63	6.050	6.022	6.065	VV	3212	46931	0.26%	0.008%
64	6.093	6.065	6.132	VV	7079	138163	0.76%	0.024%
65	6.152	6.132	6.165	VV	3138	33416	0.18%	0.006%
66	6.176	6.165	6.185	VV	2071	19886	0.11%	0.003%
67	6.196	6.185	6.207	VV	2113	23123	0.13%	0.004%
68	6.219	6.207	6.237	VV	2612	29668	0.16%	0.005%
69	6.266	6.237	6.285	VV	3399	41530	0.23%	0.007%
70	6.319	6.285	6.338	PV	3777	55496	0.31%	0.010%
71	6.376	6.338	6.396	VV	5780	111674	0.62%	0.020%
72	6.417	6.396	6.439	VV	7004	87607	0.48%	0.015%
73	6.463	6.439	6.486	VV	8084	92048	0.51%	0.016%
74	6.528	6.486	6.574	VV	7945	158644	0.88%	0.028%
75	6.614	6.574	6.627	VV	2203	50426	0.28%	0.009%
76	6.644	6.627	6.673	VV	3880	55156	0.30%	0.010%
77	6.694	6.673	6.720	VV	3261	56202	0.31%	0.010%
78	6.745	6.720	6.777	VV	3966	76012	0.42%	0.013%
79	6.790	6.777	6.802	VV	2079	23897	0.13%	0.004%

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80	6.820	6.802	6.893	VV	6241	114791	0.63%	0.020%
81	6.911	6.893	6.924	VV	1790	19305	0.11%	0.003%
82	6.945	6.924	6.955	VV	2553	32992	0.18%	0.006%
83	6.975	6.955	7.001	VV	16845	203540	1.13%	0.036%
84	7.016	7.001	7.036	VV	4513	65046	0.36%	0.011%
85	7.048	7.036	7.071	VV	3480	40282	0.22%	0.007%
86	7.106	7.071	7.127	VV	4648	78212	0.43%	0.014%
87	7.155	7.127	7.203	VV	5244	128553	0.71%	0.022%
88	7.231	7.203	7.261	VV	3801	69594	0.38%	0.012%
89	7.300	7.261	7.318	VV	2828	61703	0.34%	0.011%
90	7.354	7.318	7.376	VV	9235	201454	1.11%	0.035%
91	7.398	7.376	7.423	VV	11267	140418	0.78%	0.025%
92	7.445	7.423	7.484	VV	8303	158788	0.88%	0.028%
93	7.502	7.484	7.523	VV	9373	107855	0.60%	0.019%
94	7.545	7.523	7.585	PV	19340	262618	1.45%	0.046%
95	7.602	7.585	7.617	VV	3912	53833	0.30%	0.009%
96	7.647	7.617	7.666	VV	6856	116959	0.65%	0.020%
97	7.691	7.666	7.708	VV	3345	68092	0.38%	0.012%
98	7.752	7.708	7.766	VV	8875	176595	0.98%	0.031%
99	7.775	7.766	7.798	VV	5930	77834	0.43%	0.014%
100	7.823	7.798	7.852	VV	3987	102524	0.57%	0.018%
101	7.864	7.852	7.882	VV	4145	62048	0.34%	0.011%
102	7.898	7.882	7.922	VV	4018	75169	0.42%	0.013%
103	7.949	7.922	7.983	VV	14913	255676	1.41%	0.045%
104	8.002	7.983	8.021	VV	3418	58596	0.32%	0.010%
105	8.041	8.021	8.056	VV	3847	50424	0.28%	0.009%
106	8.092	8.056	8.106	VV	13017	197192	1.09%	0.034%
107	8.115	8.106	8.133	VV	9436	117703	0.65%	0.021%
108	8.151	8.133	8.187	VV	7796	149427	0.83%	0.026%
109	8.210	8.187	8.223	VV	8157	109756	0.61%	0.019%
110	8.238	8.223	8.249	VV	10278	133596	0.74%	0.023%
111	8.260	8.249	8.280	VV	10702	132576	0.73%	0.023%
112	8.304	8.280	8.326	VV	12487	174655	0.97%	0.031%
113	8.352	8.326	8.371	VV	7645	133486	0.74%	0.023%
114	8.405	8.371	8.434	VV	13249	289506	1.60%	0.051%
115	8.479	8.434	8.504	VV	31421	422605	2.34%	0.074%
116	8.532	8.504	8.551	VV	6441	140126	0.77%	0.024%
117	8.569	8.551	8.589	VV	10151	140274	0.78%	0.025%
118	8.660	8.589	8.687	VV	13325	465781	2.57%	0.081%
119	8.707	8.687	8.728	VV	11444	188928	1.04%	0.033%
120	8.759	8.728	8.790	VV	9340	256784	1.42%	0.045%
121	8.824	8.790	8.842	VV	14381	295057	1.63%	0.052%
122	8.852	8.842	8.867	VV	8280	108909	0.60%	0.019%
123	8.884	8.867	8.926	VV	9214	227246	1.26%	0.040%
124	8.974	8.926	9.007	VV	46529	809481	4.47%	0.142%
125	9.023	9.007	9.073	VV	15516	484010	2.68%	0.085%
126	9.088	9.073	9.102	VV	12716	190400	1.05%	0.033%

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127	9.124	9.102	9.143	VV	16244	295929	1.64%	0.052%
128	9.160	9.143	9.175	VV	13429	210836	1.17%	0.037%
129	9.205	9.175	9.232	VV	47514	733430	4.05%	0.128%
130	9.258	9.232	9.271	VV	8788	176949	0.98%	0.031%
131	9.284	9.271	9.304	VV	9026	140261	0.78%	0.025%
132	9.328	9.304	9.337	VV	7599	131542	0.73%	0.023%
133	9.354	9.337	9.372	VV	10734	173040	0.96%	0.030%
134	9.390	9.372	9.405	VV	7772	132995	0.74%	0.023%
135	9.431	9.405	9.455	VV	12739	294097	1.63%	0.051%
136	9.472	9.455	9.491	VV	9938	197808	1.09%	0.035%
137	9.510	9.491	9.558	VV	10766	339424	1.88%	0.059%
138	9.580	9.558	9.604	VV	13299	240882	1.33%	0.042%
139	9.636	9.604	9.668	VV	8134	242222	1.34%	0.042%
140	9.700	9.668	9.712	VV	8034	142187	0.79%	0.025%
141	9.729	9.712	9.764	VV	10421	226084	1.25%	0.040%
142	9.782	9.764	9.815	VV	7829	199612	1.10%	0.035%
143	9.831	9.815	9.847	VV	6801	114825	0.63%	0.020%
144	9.871	9.847	9.926	VV	22545	550427	3.04%	0.096%
145	9.951	9.926	9.980	VV	16236	328400	1.82%	0.057%
146	10.035	9.980	10.083	VV	12150	435149	2.41%	0.076%
147	10.109	10.083	10.156	VV	5093	188281	1.04%	0.033%
148	10.197	10.156	10.209	VV	7421	160713	0.89%	0.028%
149	10.236	10.209	10.265	VV	15900	357539	1.98%	0.063%
150	10.282	10.265	10.326	VV	14617	320574	1.77%	0.056%
151	10.356	10.326	10.373	VV	9101	234192	1.29%	0.041%
152	10.384	10.373	10.430	VV	9575	206084	1.14%	0.036%
153	10.454	10.430	10.475	VV	7115	135093	0.75%	0.024%
154	10.495	10.475	10.505	VV	5470	87401	0.48%	0.015%
155	10.518	10.505	10.539	VV	5522	104171	0.58%	0.018%
156	10.557	10.539	10.579	VV	6996	119787	0.66%	0.021%
157	10.628	10.579	10.641	VV	6470	185443	1.03%	0.032%
158	10.671	10.641	10.701	VV	59568	908941	5.02%	0.159%
159	10.723	10.701	10.789	VV	7673	329788	1.82%	0.058%
160	10.821	10.789	10.848	VV	10022	201908	1.12%	0.035%
161	10.867	10.848	10.888	VV	3890	71927	0.40%	0.013%
162	10.955	10.888	10.984	VV	8801	305149	1.69%	0.053%
163	11.023	10.984	11.063	VV	11048	366033	2.02%	0.064%
164	11.097	11.063	11.128	VV	88219	1389632	7.68%	0.243%
165	11.143	11.128	11.178	VV	10163	222173	1.23%	0.039%
166	11.240	11.178	11.255	VV	5277	204244	1.13%	0.036%
167	11.279	11.255	11.294	VV	6525	129714	0.72%	0.023%
168	11.305	11.294	11.328	VV	5694	91234	0.50%	0.016%
169	11.363	11.328	11.385	VV	8422	187809	1.04%	0.033%
170	11.421	11.385	11.468	VV	17285	363086	2.01%	0.063%
171	11.507	11.468	11.545	VV	5304	174097	0.96%	0.030%
172	11.559	11.545	11.571	VV	3654	52816	0.29%	0.009%
173	11.586	11.571	11.615	VV	3568	82594	0.46%	0.014%
174	11.639	11.615	11.647	VV	3884	63592	0.35%	0.011%

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175	11.669	11.647	11.702	VV	5832	162713	0.90%	0.028%
176	11.730	11.702	11.749	VV	11252	196667	1.09%	0.034%
177	11.758	11.749	11.793	VV	5041	118938	0.66%	0.021%
178	11.824	11.793	11.871	VV	57367	915125	5.06%	0.160%
179	11.887	11.871	11.912	VV	4267	68377	0.38%	0.012%
180	11.931	11.912	11.955	VV	3312	48955	0.27%	0.009%
181	12.047	11.955	12.075	VV	6388	296266	1.64%	0.052%
182	12.105	12.075	12.118	VV	3911	72793	0.40%	0.013%
183	12.137	12.118	12.160	VV	5922	94757	0.52%	0.017%
184	12.181	12.160	12.195	VV	3025	49775	0.28%	0.009%
185	12.213	12.195	12.225	VV	3113	48495	0.27%	0.008%
186	12.245	12.225	12.268	VV	4631	85894	0.47%	0.015%
187	12.292	12.268	12.317	VV	4328	88946	0.49%	0.016%
188	12.387	12.317	12.463	VV	17756	515219	2.85%	0.090%
189	12.486	12.463	12.500	VV	3881	70317	0.39%	0.012%
190	12.519	12.500	12.528	VV	5123	76849	0.42%	0.013%
191	12.536	12.528	12.583	VV	5241	98444	0.54%	0.017%
192	12.611	12.583	12.627	PV	4003	67430	0.37%	0.012%
193	12.637	12.627	12.664	VV	4050	76705	0.42%	0.013%
194	12.684	12.664	12.696	VV	4172	66964	0.37%	0.012%
195	12.711	12.696	12.738	VV	3368	68679	0.38%	0.012%
196	12.778	12.738	12.797	VV	3115	74146	0.41%	0.013%
197	12.840	12.797	12.866	VV	2938	80490	0.44%	0.014%
198	12.913	12.866	12.950	VV	4433	106349	0.59%	0.019%
199	12.975	12.950	13.028	VV	5821	160814	0.89%	0.028%
200	13.051	13.028	13.098	VV	9158	184954	1.02%	0.032%
201	13.115	13.098	13.131	VV	2647	40868	0.23%	0.007%
202	13.171	13.131	13.185	VV	4652	97237	0.54%	0.017%
203	13.198	13.185	13.237	VV	4053	65849	0.36%	0.012%
204	13.275	13.237	13.298	PV	1280	17988	0.10%	0.003%
205	13.340	13.298	13.365	PV	2024	51517	0.28%	0.009%
206	13.387	13.365	13.401	VV	2169	30755	0.17%	0.005%
207	13.419	13.401	13.431	VV	1951	26775	0.15%	0.005%
208	13.434	13.431	13.442	VV	1385	7152	0.04%	0.001%
209	13.504	13.442	13.535	VV	401871	4861372	26.87%	0.850%
210	13.552	13.535	13.585	VV	12787	233911	1.29%	0.041%
211	13.605	13.585	13.624	VV	4276	64791	0.36%	0.011%
212	13.636	13.624	13.651	VV	2060	23458	0.13%	0.004%
213	13.680	13.651	13.697	VV	4189	70976	0.39%	0.012%
214	13.717	13.697	13.742	VV	5691	102544	0.57%	0.018%
215	13.770	13.742	13.801	VV	2953	80342	0.44%	0.014%
216	13.808	13.801	13.821	VV	1665	14380	0.08%	0.003%
217	13.841	13.821	13.863	VV	4879	59151	0.33%	0.010%
218	13.898	13.863	13.920	PV	7819	141376	0.78%	0.025%
219	13.946	13.920	13.970	VV	5716	113429	0.63%	0.020%
220	13.988	13.970	14.047	VV	3941	89430	0.49%	0.016%
221	14.116	14.047	14.137	VV	4738	121919	0.67%	0.021%

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222	14.172	14.137	14.197	VV	7355	139672	0.77%	0.024%
223	14.214	14.197	14.233	VV	2979	44517	0.25%	0.008%
224	14.266	14.233	14.301	VV	11448	220558	1.22%	0.039%
225	14.316	14.301	14.335	VV	5315	75524	0.42%	0.013%
226	14.349	14.335	14.371	VV	4017	57014	0.32%	0.010%
227	14.408	14.371	14.433	VV	2982	80061	0.44%	0.014%
228	14.497	14.433	14.519	PV	11760	262257	1.45%	0.046%
229	14.563	14.519	14.605	VV	5071	193709	1.07%	0.034%
230	14.649	14.605	14.663	PV	4946	92685	0.51%	0.016%
231	14.681	14.663	14.704	VV	7729	128005	0.71%	0.022%
232	14.737	14.704	14.758	VV	6013	138926	0.77%	0.024%
233	14.780	14.758	14.805	VV	11083	150487	0.83%	0.026%
234	14.829	14.805	14.838	VV	2421	29515	0.16%	0.005%
235	14.896	14.838	14.927	VV	14143	299463	1.66%	0.052%
236	14.954	14.927	15.007	VV	11043	254247	1.41%	0.044%
237	15.032	15.007	15.045	PV	3339	50467	0.28%	0.009%
238	15.089	15.045	15.107	VV	10247	240205	1.33%	0.042%
239	15.121	15.107	15.171	VV	7805	166723	0.92%	0.029%
240	15.209	15.171	15.220	VV	2992	70077	0.39%	0.012%
241	15.233	15.220	15.241	VV	4613	41383	0.23%	0.007%
242	15.296	15.241	15.316	VV	8280	240476	1.33%	0.042%
243	15.323	15.316	15.350	VV	4874	73490	0.41%	0.013%
244	15.371	15.350	15.384	VV	5765	86125	0.48%	0.015%
245	15.451	15.384	15.480	VV	11030	404844	2.24%	0.071%
246	15.515	15.480	15.548	VV	15857	375554	2.08%	0.066%
247	15.584	15.548	15.605	VV	8256	199780	1.10%	0.035%
248	15.626	15.605	15.665	VV	10439	305965	1.69%	0.053%
249	15.697	15.665	15.748	VV	11726	451424	2.50%	0.079%
250	15.759	15.748	15.778	VV	7412	126219	0.70%	0.022%
251	15.826	15.778	15.868	VV	15628	634119	3.51%	0.111%
252	15.945	15.868	15.968	VV	21502	947468	5.24%	0.166%
253	15.992	15.968	16.014	VV	17794	404640	2.24%	0.071%
254	16.042	16.014	16.068	VV	25947	573209	3.17%	0.100%
255	16.126	16.068	16.136	VV	19740	641529	3.55%	0.112%
256	16.170	16.136	16.185	VV	23599	567790	3.14%	0.099%
257	16.215	16.185	16.240	VV	29174	811124	4.48%	0.142%
258	16.254	16.240	16.274	VV	24854	454460	2.51%	0.079%
259	16.304	16.274	16.341	VV	24755	880174	4.87%	0.154%
260	16.370	16.341	16.381	VV	26261	560548	3.10%	0.098%
261	16.444	16.381	16.477	VV	40508	1791690	9.90%	0.313%
262	16.494	16.477	16.510	VV	30767	570662	3.15%	0.100%
263	16.518	16.510	16.525	VV	28259	265465	1.47%	0.046%
264	16.601	16.525	16.644	VV	52467	2765209	15.29%	0.483%
265	16.727	16.644	16.761	VV	60771	3575675	19.77%	0.625%
266	16.777	16.761	16.820	VV	56408	1698112	9.39%	0.297%
267	16.854	16.820	16.874	VV	51622	1484853	8.21%	0.260%
268	16.905	16.874	16.920	VV	56246	1427461	7.89%	0.250%
269	16.933	16.920	16.948	VV	52977	859281	4.75%	0.150%

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270	16.996	16.948	17.008	VV	68485	2102346	11.62%	0.368%
271	17.061	17.008	17.079	VV	76693	2973855	16.44%	0.520%
272	17.112	17.079	17.148	VV	85363	3215496	17.77%	0.562%
273	17.158	17.148	17.185	VV	77708	1602238	8.86%	0.280%
274	17.232	17.185	17.274	VV	87223	4095060	22.64%	0.716%
275	17.359	17.274	17.373	VV	98039	4636035	25.63%	0.811%
276	17.395	17.373	17.416	VV	150200	3085912	17.06%	0.540%
277	17.432	17.416	17.450	VV	115243	2065031	11.41%	0.361%
278	17.474	17.450	17.505	VV	99432	2992397	16.54%	0.523%
279	17.556	17.505	17.572	VV	116918	4213384	23.29%	0.737%
280	17.605	17.572	17.655	VV	136807	5841685	32.29%	1.021%
281	17.690	17.655	17.718	VV	125307	4239829	23.44%	0.741%
282	17.739	17.718	17.751	VV	117840	2267741	12.54%	0.396%
283	17.769	17.751	17.777	VV	126214	1838500	10.16%	0.321%
284	17.794	17.777	17.827	VV	156483	3892078	21.51%	0.680%
285	17.862	17.827	17.881	VV	142882	4038590	22.32%	0.706%
286	17.897	17.881	17.918	VV	141434	2931017	16.20%	0.512%
287	17.942	17.918	17.980	VV	168780	5137427	28.40%	0.898%
288	17.999	17.980	18.012	VV	133515	2404577	13.29%	0.420%
289	18.030	18.012	18.048	VV	135620	2791611	15.43%	0.488%
290	18.062	18.048	18.075	VV	126567	1980251	10.95%	0.346%
291	18.118	18.075	18.135	VV	132102	4517353	24.97%	0.790%
292	18.172	18.135	18.211	VV	164329	6774198	37.45%	1.184%
293	18.266	18.211	18.295	VV	192018	8309816	45.93%	1.453%
294	18.313	18.295	18.335	VV	147692	3239980	17.91%	0.566%
295	18.419	18.335	18.505	VV	308144	18090699	100.00%	3.163%
296	18.512	18.505	18.531	VV	149866	2336447	12.92%	0.408%
297	18.558	18.531	18.574	VV	162972	3933487	21.74%	0.688%
298	18.624	18.574	18.721	VV	190306	14159716	78.27%	2.476%
299	18.789	18.721	18.843	VV	300181	13809914	76.34%	2.414%
300	18.856	18.843	18.877	VV	161715	3251142	17.97%	0.568%
301	18.905	18.877	18.927	VV	169241	4816267	26.62%	0.842%
302	18.954	18.927	18.964	VV	175312	3662534	20.25%	0.640%
303	18.984	18.964	19.031	VV	177096	6825140	37.73%	1.193%
304	19.109	19.031	19.135	VV	185154	10698505	59.14%	1.870%
305	19.217	19.135	19.245	VV	281485	12671679	70.05%	2.215%
306	19.266	19.245	19.303	VV	263814	7485178	41.38%	1.309%
307	19.309	19.303	19.331	VV	190262	3089616	17.08%	0.540%
308	19.397	19.331	19.421	VV	209558	10125344	55.97%	1.770%
309	19.437	19.421	19.454	VV	190013	3596373	19.88%	0.629%
310	19.465	19.454	19.501	VV	185943	5166318	28.56%	0.903%
311	19.515	19.501	19.523	VV	192434	2508075	13.86%	0.438%
312	19.551	19.523	19.581	VV	257984	7357255	40.67%	1.286%
313	19.619	19.581	19.655	VV	236845	8772796	48.49%	1.534%
314	19.716	19.655	19.728	VV	216430	8729447	48.25%	1.526%
315	19.738	19.728	19.751	VV	201870	2713991	15.00%	0.474%
316	19.771	19.751	19.794	VV	199793	4879912	26.97%	0.853%

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317	19.832	19.794	19.842	VV	196771	5623798	31.09%	0.983%
318	19.862	19.842	19.871	VV	195668	3338751	18.46%	0.584%
319	19.933	19.871	19.978	VV	277967	14375102	79.46%	2.513%
320	19.988	19.978	19.998	VV	199999	2325893	12.86%	0.407%
321	20.029	19.998	20.058	VV	241387	7782003	43.02%	1.361%
322	20.095	20.058	20.125	VV	216434	8428214	46.59%	1.474%
323	20.134	20.125	20.155	VV	218303	3838784	21.22%	0.671%
324	20.188	20.155	20.234	VV	218387	10164947	56.19%	1.777%
325	20.264	20.234	20.274	VV	240738	5426550	30.00%	0.949%
326	20.331	20.274	20.392	VV	296226	16952040	93.71%	2.964%
327	20.445	20.392	20.515	VV	243269	16794121	92.83%	2.936%
328	20.526	20.515	20.534	VV	231817	2610872	14.43%	0.456%
329	20.558	20.534	20.582	VV	259226	7104259	39.27%	1.242%
330	20.592	20.582	20.605	VV	248323	3394016	18.76%	0.593%
331	20.614	20.605	20.675	VV	244491	9822963	54.30%	1.717%
332	20.725	20.675	20.758	VV	280950	12736619	70.40%	2.227%
333	20.776	20.758	20.787	VV	238114	3992212	22.07%	0.698%
334	20.802	20.787	20.811	VV	246390	3489011	19.29%	0.610%
335	20.821	20.811	20.846	VV	242233	5032545	27.82%	0.880%
336	20.861	20.846	20.905	VV	256481	8276811	45.75%	1.447%
337	20.919	20.905	20.991	VV	224670	10934648	60.44%	1.912%
338	21.015	20.991	21.061	VV	211623	8328019	46.03%	1.456%
339	21.078	21.061	21.111	VV	205245	5779993	31.95%	1.011%
340	21.143	21.111	21.154	VV	197597	4877401	26.96%	0.853%
341	21.178	21.154	21.225	VV	201803	7972993	44.07%	1.394%
342	21.271	21.225	21.338	VV	204228	12446976	68.80%	2.176%
343	21.345	21.338	21.354	VV	160715	1509187	8.34%	0.264%
344	21.376	21.354	21.461	VV	172541	10029315	55.44%	1.753%
345	21.492	21.461	21.548	VV	140888	6920726	38.26%	1.210%
346	21.551	21.548	21.578	VV	133260	2212151	12.23%	0.387%
347	21.595	21.578	21.617	VV	128349	2915016	16.11%	0.510%
348	21.626	21.617	21.671	VV	136904	3951120	21.84%	0.691%
349	21.687	21.671	21.744	VV	121778	4869210	26.92%	0.851%
350	21.762	21.744	21.838	VV	113732	5771679	31.90%	1.009%
351	21.867	21.838	22.117	VV	101671	12707233	70.24%	2.222%
352	22.149	22.117	22.281	VV	60157	4608292	25.47%	0.806%
353	22.298	22.281	22.321	VV	46856	835326	4.62%	0.146%
354	22.328	22.321	22.365	VV	33571	769916	4.26%	0.135%
355	22.414	22.365	22.516	VV	39621	2268706	12.54%	0.397%
356	22.524	22.516	22.532	VV	11429	77158	0.43%	0.013%
357	22.547	22.532	22.581	VV	12186	254013	1.40%	0.044%
358	22.593	22.581	22.601	PBA	5967	381392	2.11%	0.067%

Sum of corrected areas: 571973612

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

Report of Analysis

Client:	G Environmental		Date Collected:	09/24/25	
Project:	TGP		Date Received:	09/24/25	
Client Sample ID:	RB104DL		SDG No.:	Q3192	
Lab Sample ID:	Q3192-01DL		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	94.8	
Sample Wt/Vol:	30.03	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG016650.D	10	09/25/25	09/25/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	1.48	U	1.48	10.5	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	8.08		1.16	7.03	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	6.77	J	1.37	10.5	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	29.9		5.59	14.1	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	328		12.4	21.1	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	4.52		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3192-01DL	Acq On:	25 Sep 2025 16:52
Client Sample ID:	RB104DL	Operator:	YP\AJ
Data file:	FG016650.D	Misc:	
Instrument:	FID_G	ALS Vial:	33
Dilution Factor:	10	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.279	6.920	446096	3.862	300	ug/ml
Aliphatic C12-C16	6.921	10.379	1387657	11.505	200	ug/ml
Aliphatic C16-C21	10.380	13.768	1246073	9.638	300	ug/ml
Aliphatic C21-C28	13.769	17.453	5477942	42.517	400	ug/ml
Aliphatic C28-C40	17.454	22.488	47376685	467.138	600	ug/ml
Aliphatic EPH	3.279	22.488	55934453	534.66		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.509	13.509	510531	4.52		ug/ml
Aliphatic C9-C28	3.279	17.453	8557768	67.522	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016650.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 16:52
Operator : YP\AJ
Sample : Q3192-01DL 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RB104DL

Integration File: autoint1.e
Quant Time: Sep 25 18:13:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 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...	13.509	510531	4.523 ug/ml
Spiked Amount 50.000		Recovery =	9.05%
Target Compounds			

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

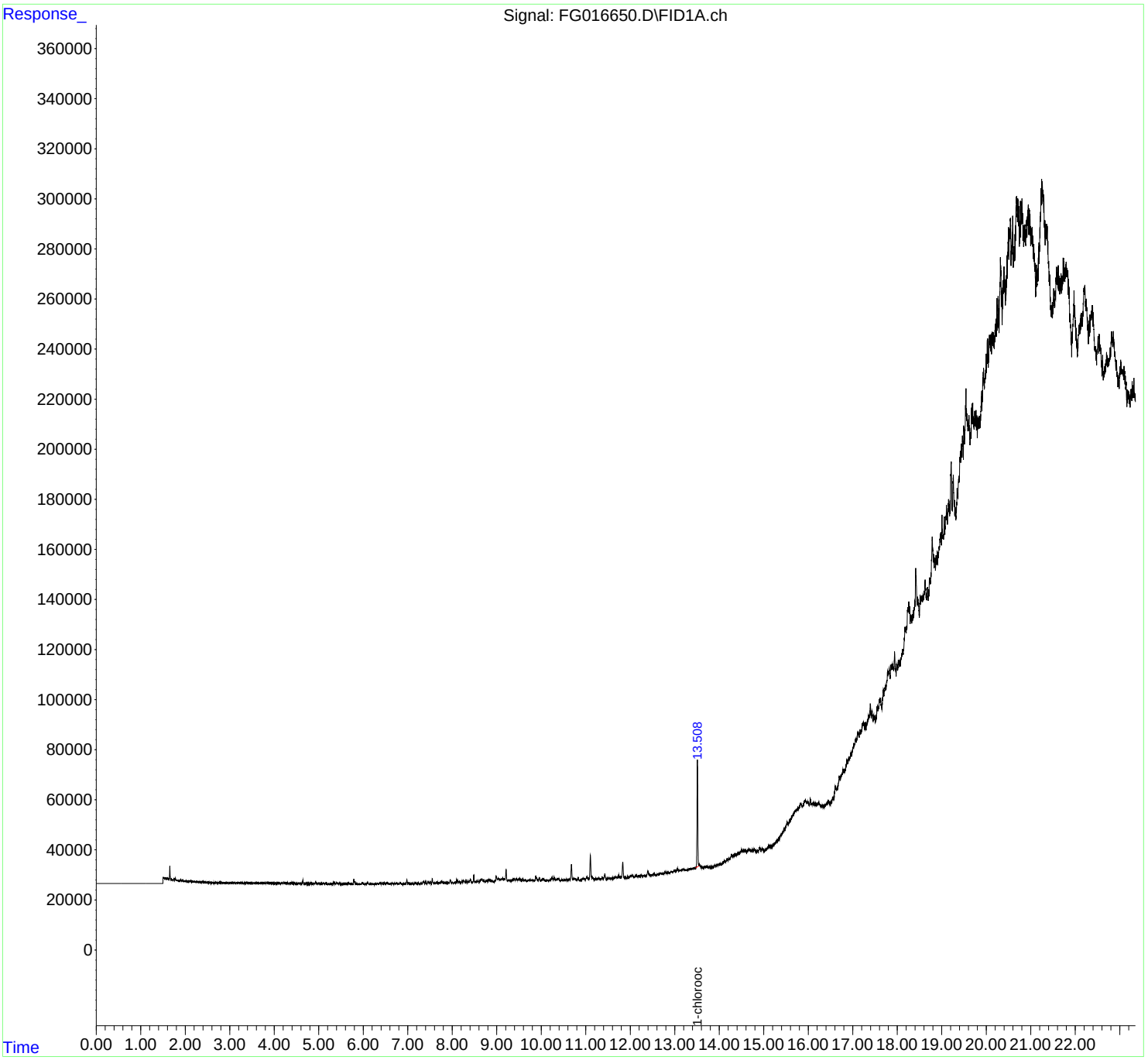
Quantitation Report (QT Reviewed)

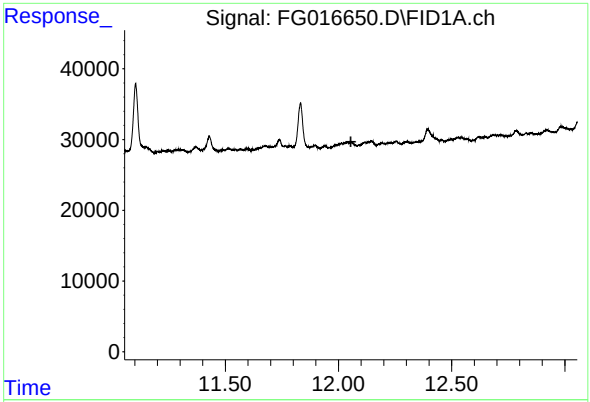
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016650.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 16:52
Operator : YP\AJ
Sample : Q3192-01DL 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RB104DL

Integration File: autoint1.e
Quant Time: Sep 25 18:13:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

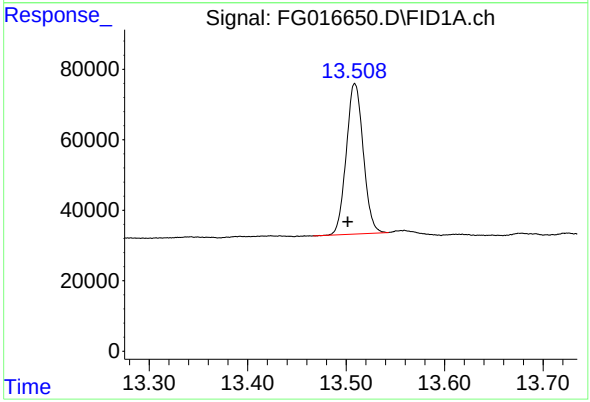




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.055 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
RB104DL



#12 1-chlorooctadecane (SURR)

R.T.: 13.509 min
Delta R.T.: 0.007 min
Response: 510531
Conc: 4.52 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016650.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 16:52
Sample : Q3192-01DL 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.282	3.221	3.325	BV	75	1715	0.05%	0.003%
2	3.334	3.325	3.343	VV	64	401	0.01%	0.001%
3	3.383	3.343	3.438	PV	380	8292	0.22%	0.014%
4	3.443	3.438	3.471	VV	79	1251	0.03%	0.002%
5	3.482	3.471	3.495	VV	114	1013	0.03%	0.002%
6	3.499	3.495	3.516	VV	127	1075	0.03%	0.002%
7	3.533	3.516	3.588	VV	118	3851	0.10%	0.007%
8	3.595	3.588	3.610	VV	140	1425	0.04%	0.002%
9	3.627	3.610	3.687	VV	167	5524	0.15%	0.010%
10	3.699	3.687	3.741	VV	227	5008	0.13%	0.009%
11	3.772	3.741	3.808	VV	190	5178	0.14%	0.009%
12	3.834	3.808	3.884	VV	369	8981	0.24%	0.016%
13	3.915	3.884	3.960	VV	276	7010	0.19%	0.012%
14	3.974	3.960	4.011	VV	233	4004	0.11%	0.007%
15	4.024	4.011	4.057	VV	196	2897	0.08%	0.005%
16	4.083	4.057	4.144	VV	228	7325	0.20%	0.013%
17	4.181	4.144	4.197	VV	443	7119	0.19%	0.012%
18	4.215	4.197	4.238	VV	483	6150	0.17%	0.011%
19	4.252	4.238	4.269	VV	221	3120	0.08%	0.005%
20	4.292	4.269	4.314	VV	414	6184	0.17%	0.011%
21	4.386	4.314	4.399	VV	307	7760	0.21%	0.013%
22	4.416	4.399	4.437	VV	322	4666	0.13%	0.008%
23	4.453	4.437	4.492	VV	212	3827	0.10%	0.007%
24	4.538	4.492	4.561	PV	235	4930	0.13%	0.009%
25	4.584	4.561	4.613	VV	220	4315	0.12%	0.008%
26	4.720	4.701	4.745	VV	237	3202	0.09%	0.006%
27	4.765	4.745	4.804	VV	141	3100	0.08%	0.005%
28	4.831	4.804	4.847	VV	242	4584	0.12%	0.008%
29	4.860	4.847	4.880	VV	264	3750	0.10%	0.007%
30	4.897	4.880	4.912	VV	220	3508	0.09%	0.006%
31	4.930	4.912	4.945	VV	790	8406	0.23%	0.015%

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32	4.955	4.945	4.972	VV	410	4385	0.12%	0.008%
33	5.010	4.972	5.035	VV	369	8859	0.24%	0.015%
34	5.063	5.035	5.081	VV	390	6050	0.16%	0.011%
35	5.108	5.081	5.128	VV	386	6496	0.18%	0.011%
36	5.161	5.128	5.198	VV	469	8143	0.22%	0.014%
37	5.227	5.198	5.244	VV	239	3198	0.09%	0.006%
38	5.264	5.244	5.308	VV	284	4979	0.13%	0.009%
39	5.325	5.308	5.338	VV	602	6763	0.18%	0.012%
40	5.357	5.338	5.379	VV	885	11502	0.31%	0.020%
41	5.401	5.379	5.424	VV	857	10991	0.30%	0.019%
42	5.433	5.424	5.449	VV	340	3804	0.10%	0.007%
43	5.468	5.449	5.505	VV	800	10502	0.28%	0.018%
44	5.524	5.505	5.547	PV	114	1970	0.05%	0.003%
45	5.571	5.547	5.583	VV	432	5229	0.14%	0.009%
46	5.591	5.583	5.614	VV	286	4359	0.12%	0.008%
47	5.632	5.614	5.650	VV	432	6005	0.16%	0.010%
48	5.665	5.650	5.685	VV	397	5070	0.14%	0.009%
49	5.695	5.685	5.711	VV	310	3523	0.09%	0.006%
50	5.730	5.711	5.747	VV	279	4308	0.12%	0.007%
51	5.757	5.747	5.767	VV	150	1478	0.04%	0.003%
52	5.865	5.847	5.901	VV	233	4249	0.11%	0.007%
53	5.915	5.901	5.929	VV	202	2194	0.06%	0.004%
54	5.946	5.929	5.955	VV	202	2233	0.06%	0.004%
55	5.977	5.955	6.031	VV	864	16145	0.44%	0.028%
56	6.057	6.031	6.071	VV	347	5362	0.14%	0.009%
57	6.100	6.071	6.137	VV	858	16471	0.44%	0.029%
58	6.158	6.137	6.191	VV	363	6797	0.18%	0.012%
59	6.203	6.191	6.213	VV	323	3390	0.09%	0.006%
60	6.225	6.213	6.241	VV	295	3697	0.10%	0.006%
61	6.272	6.241	6.295	PV	420	6206	0.17%	0.011%
62	6.325	6.295	6.348	VV	441	7992	0.22%	0.014%
63	6.381	6.348	6.402	VV	687	13685	0.37%	0.024%
64	6.423	6.402	6.445	VV	867	11796	0.32%	0.021%
65	6.469	6.445	6.491	VV	982	12657	0.34%	0.022%
66	6.534	6.491	6.581	VV	957	21636	0.58%	0.038%
67	6.598	6.581	6.638	VV	342	8428	0.23%	0.015%
68	6.651	6.638	6.680	VV	538	7754	0.21%	0.013%
69	6.700	6.680	6.717	VV	410	6451	0.17%	0.011%
70	6.751	6.717	6.784	VV	525	11931	0.32%	0.021%
71	6.797	6.784	6.808	VV	244	2926	0.08%	0.005%
72	6.826	6.808	6.875	VV	781	13269	0.36%	0.023%
73	6.916	6.875	6.930	VV	246	3642	0.10%	0.006%
74	6.951	6.930	6.960	VV	244	3511	0.09%	0.006%
75	6.980	6.960	7.006	VV	1899	22527	0.61%	0.039%
76	7.022	7.006	7.042	VV	538	7888	0.21%	0.014%
77	7.055	7.042	7.081	VV	439	5154	0.14%	0.009%
78	7.112	7.081	7.133	VV	537	8309	0.22%	0.014%
79	7.159	7.133	7.208	PV	574	14091	0.38%	0.024%

80	7.238	7.208	7.264	VV	431	8248	0.22%	0.014%
81	7.307	7.264	7.323	VV	430	7956	0.21%	0.014%
82	7.342	7.323	7.350	VV	974	10348	0.28%	0.018%
83	7.360	7.350	7.385	VV	1038	13707	0.37%	0.024%
84	7.404	7.385	7.430	VV	1319	17180	0.46%	0.030%
85	7.450	7.430	7.490	VV	881	17982	0.48%	0.031%
86	7.508	7.490	7.531	VV	1104	12273	0.33%	0.021%
87	7.551	7.531	7.591	PV	2124	28243	0.76%	0.049%
88	7.608	7.591	7.621	VV	436	5342	0.14%	0.009%
89	7.654	7.621	7.675	VV	753	13319	0.36%	0.023%
90	7.700	7.675	7.714	VV	457	7185	0.19%	0.012%
91	7.758	7.714	7.806	VV	1023	27906	0.75%	0.049%
92	7.824	7.806	7.858	VV	420	10165	0.27%	0.018%
93	7.871	7.858	7.888	VV	430	5750	0.16%	0.010%
94	7.904	7.888	7.931	VV	410	7619	0.21%	0.013%
95	7.956	7.931	7.991	VV	1581	27242	0.73%	0.047%
96	8.005	7.991	8.027	VV	408	5528	0.15%	0.010%
97	8.047	8.027	8.063	VV	419	5714	0.15%	0.010%
98	8.099	8.063	8.113	VV	1308	19498	0.53%	0.034%
99	8.122	8.113	8.139	VV	953	11048	0.30%	0.019%
100	8.156	8.139	8.198	VV	707	14925	0.40%	0.026%
101	8.216	8.198	8.227	VV	796	9797	0.26%	0.017%
102	8.243	8.227	8.255	VV	1021	13960	0.38%	0.024%
103	8.267	8.255	8.287	VV	1105	13795	0.37%	0.024%
104	8.311	8.287	8.331	VV	1304	17398	0.47%	0.030%
105	8.358	8.331	8.377	VV	831	13364	0.36%	0.023%
106	8.411	8.377	8.440	VV	1430	28646	0.77%	0.050%
107	8.485	8.440	8.508	VV	3308	41125	1.11%	0.072%
108	8.539	8.508	8.558	VV	668	14423	0.39%	0.025%
109	8.575	8.558	8.597	VV	1041	14291	0.39%	0.025%
110	8.666	8.597	8.695	VV	1593	56265	1.52%	0.098%
111	8.713	8.695	8.734	VV	1191	18289	0.49%	0.032%
112	8.764	8.734	8.798	VV	896	26520	0.71%	0.046%
113	8.832	8.798	8.848	VV	1341	29218	0.79%	0.051%
114	8.859	8.848	8.873	VV	796	10150	0.27%	0.018%
115	8.890	8.873	8.931	VV	869	19305	0.52%	0.034%
116	8.986	8.931	9.014	VV	2658	56811	1.53%	0.099%
117	9.030	9.014	9.080	VV	1663	50217	1.35%	0.087%
118	9.095	9.080	9.108	VV	1277	19027	0.51%	0.033%
119	9.132	9.108	9.149	VV	1783	32574	0.88%	0.057%
120	9.167	9.149	9.184	VV	1422	24354	0.66%	0.042%
121	9.210	9.184	9.239	VV	5111	77290	2.08%	0.134%
122	9.265	9.239	9.276	VV	802	15290	0.41%	0.027%
123	9.290	9.276	9.311	VV	867	13922	0.38%	0.024%
124	9.360	9.311	9.373	VV	1075	26614	0.72%	0.046%
125	9.392	9.373	9.415	VV	1375	25696	0.69%	0.045%
126	9.440	9.415	9.461	VV	1256	27432	0.74%	0.048%

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127	9.483	9.461	9.497	VV	1060	20051	0.54%	0.035%
128	9.515	9.497	9.565	VV	1084	33668	0.91%	0.059%
129	9.585	9.565	9.610	VV	1250	20419	0.55%	0.036%
130	9.638	9.610	9.674	VV	660	18190	0.49%	0.032%
131	9.706	9.674	9.719	VV	620	10452	0.28%	0.018%
132	9.736	9.719	9.771	VV	911	16230	0.44%	0.028%
133	9.789	9.771	9.820	VV	620	13465	0.36%	0.023%
134	9.837	9.820	9.855	VV	556	8104	0.22%	0.014%
135	9.878	9.855	9.933	VV	2197	48241	1.30%	0.084%
136	9.957	9.933	9.987	VV	1593	29728	0.80%	0.052%
137	10.041	9.987	10.091	VV	1027	33588	0.91%	0.058%
138	10.135	10.091	10.180	VV	360	12425	0.33%	0.022%
139	10.202	10.180	10.215	VV	654	9228	0.25%	0.016%
140	10.242	10.215	10.271	VV	1525	32489	0.88%	0.056%
141	10.288	10.271	10.335	VV	1602	29960	0.81%	0.052%
142	10.365	10.335	10.378	VV	752	16988	0.46%	0.030%
143	10.391	10.378	10.438	VV	816	15547	0.42%	0.027%
144	10.461	10.438	10.478	VV	513	7311	0.20%	0.013%
145	10.499	10.478	10.545	VV	395	12594	0.34%	0.022%
146	10.564	10.545	10.590	VV	604	8420	0.23%	0.015%
147	10.635	10.590	10.648	VV	534	11276	0.30%	0.020%
148	10.677	10.648	10.707	VV	6444	92085	2.48%	0.160%
149	10.735	10.707	10.753	VV	780	17223	0.46%	0.030%
150	10.761	10.753	10.795	VV	644	11826	0.32%	0.021%
151	10.829	10.795	10.856	VV	933	15450	0.42%	0.027%
152	10.874	10.856	10.891	PV	203	2337	0.06%	0.004%
153	10.932	10.891	10.941	PV	575	8599	0.23%	0.015%
154	10.961	10.941	10.992	VV	756	15675	0.42%	0.027%
155	11.031	10.992	11.067	VV	1277	31353	0.85%	0.055%
156	11.104	11.067	11.187	VV	9825	167624	4.52%	0.291%
157	11.223	11.187	11.238	PV	305	6100	0.16%	0.011%
158	11.249	11.238	11.265	VV	310	4061	0.11%	0.007%
159	11.289	11.265	11.338	VV	412	11907	0.32%	0.021%
160	11.369	11.338	11.391	VV	655	11704	0.32%	0.020%
161	11.429	11.391	11.469	VV	2199	35083	0.95%	0.061%
162	11.513	11.469	11.534	VV	327	6775	0.18%	0.012%
163	11.543	11.534	11.554	VV	170	1675	0.05%	0.003%
164	11.565	11.554	11.581	VV	199	1850	0.05%	0.003%
165	11.595	11.581	11.614	VV	289	3057	0.08%	0.005%
166	11.675	11.614	11.711	VV	558	18689	0.50%	0.032%
167	11.739	11.711	11.796	VV	1370	30318	0.82%	0.053%
168	11.832	11.796	11.872	VV	6420	97947	2.64%	0.170%
169	11.896	11.872	11.919	VV	414	6628	0.18%	0.012%
170	11.940	11.919	11.955	PV	243	2972	0.08%	0.005%
171	12.054	11.955	12.085	VV	639	29672	0.80%	0.052%
172	12.145	12.085	12.168	VV	658	19090	0.51%	0.033%
173	12.193	12.168	12.207	VV	342	5094	0.14%	0.009%
174	12.255	12.207	12.278	VV	497	11681	0.31%	0.020%

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175	12.301	12.278	12.324	VV	335	6228	0.17%	0.011%
176	12.395	12.324	12.468	VV	1981	55967	1.51%	0.097%
177	12.528	12.468	12.588	VV	620	25547	0.69%	0.044%
178	12.619	12.588	12.659	PV	502	13927	0.38%	0.024%
179	12.685	12.659	12.702	VV	656	13349	0.36%	0.023%
180	12.713	12.702	12.747	VV	568	11461	0.31%	0.020%
181	12.784	12.747	12.813	VV	936	21938	0.59%	0.038%
182	12.849	12.813	12.878	VV	533	15838	0.43%	0.028%
183	12.921	12.878	12.953	VV	735	22100	0.60%	0.038%
184	12.983	12.953	13.033	VV	1064	35495	0.96%	0.062%
185	13.060	13.033	13.106	VV	1796	43713	1.18%	0.076%
186	13.180	13.106	13.196	VV	1031	42266	1.14%	0.073%
187	13.207	13.196	13.248	VV	955	21463	0.58%	0.037%
188	13.254	13.248	13.265	VV	559	4963	0.13%	0.009%
189	13.280	13.265	13.297	VV	688	11743	0.32%	0.020%
190	13.341	13.297	13.371	VV	832	29730	0.80%	0.052%
191	13.392	13.371	13.400	VV	845	12272	0.33%	0.021%
192	13.424	13.400	13.447	VV	934	23403	0.63%	0.041%
193	13.509	13.447	13.543	VV	44124	574478	15.49%	0.999%
194	13.557	13.543	13.597	VV	2121	48115	1.30%	0.084%
195	13.614	13.597	13.658	VV	905	25600	0.69%	0.045%
196	13.678	13.658	13.708	VV	1054	22252	0.60%	0.039%
197	13.725	13.708	13.751	VV	977	17080	0.46%	0.030%
198	13.778	13.751	13.805	VV	495	11565	0.31%	0.020%
199	13.812	13.805	13.831	VV	295	2927	0.08%	0.005%
200	13.847	13.831	13.869	VV	620	7640	0.21%	0.013%
201	13.903	13.869	13.926	PV	842	14472	0.39%	0.025%
202	13.952	13.926	13.973	VV	841	13845	0.37%	0.024%
203	14.028	13.973	14.051	VV	551	20473	0.55%	0.036%
204	14.236	14.200	14.244	VV	1493	36891	0.99%	0.064%
205	14.276	14.244	14.308	VV	2964	85161	2.30%	0.148%
206	14.325	14.308	14.347	VV	2327	51635	1.39%	0.090%
207	14.566	14.526	14.580	VV	3002	90368	2.44%	0.157%
208	14.590	14.580	14.616	VV	2634	52901	1.43%	0.092%
209	14.654	14.616	14.673	VV	2603	79641	2.15%	0.138%
210	14.691	14.673	14.711	VV	2493	51251	1.38%	0.089%
211	14.744	14.711	14.761	VV	2069	57742	1.56%	0.100%
212	14.788	14.761	14.821	VV	2243	58036	1.56%	0.101%
213	14.834	14.821	14.850	VV	1236	17143	0.46%	0.030%
214	14.866	14.850	14.875	VV	923	12949	0.35%	0.023%
215	14.906	14.875	14.945	VV	2115	54167	1.46%	0.094%
216	14.963	14.945	14.997	VV	1537	30306	0.82%	0.053%
217	15.009	14.997	15.017	VV	360	2629	0.07%	0.005%
218	15.129	15.017	15.141	PV	819	36358	0.98%	0.063%
219	15.157	15.141	15.174	VV	594	7584	0.20%	0.013%
220	15.304	15.174	15.316	PV	1160	38734	1.04%	0.067%
221	15.997	15.978	16.026	VV	7597	197797	5.33%	0.344%

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222	16.046	16.026	16.068	VV	7926	171597	4.63%	0.298%
223	16.084	16.068	16.113	VV	5750	147568	3.98%	0.257%
224	16.131	16.113	16.151	VV	5344	113656	3.06%	0.198%
225	16.172	16.151	16.197	VV	4693	116585	3.14%	0.203%
226	16.298	16.284	16.312	VV	2281	34755	0.94%	0.060%
227	16.324	16.312	16.348	VV	1905	32548	0.88%	0.057%
228	16.362	16.348	16.373	VV	1180	15414	0.42%	0.027%
229	16.413	16.373	16.423	VV	1216	32304	0.87%	0.056%
230	16.452	16.423	16.488	VV	2195	48727	1.31%	0.085%
231	16.552	16.488	16.568	PV	1031	21620	0.58%	0.038%
232	16.698	16.650	16.711	VV	5123	124195	3.35%	0.216%
233	16.736	16.711	16.743	VV	4838	80777	2.18%	0.140%
234	16.781	16.743	16.798	VV	5592	158266	4.27%	0.275%
235	16.874	16.798	16.888	VV	6472	271838	7.33%	0.473%
236	16.959	16.888	16.968	VV	7254	297456	8.02%	0.517%
237	17.063	16.968	17.081	VV	9788	548656	14.79%	0.954%
238	17.125	17.081	17.144	VV	10468	371993	10.03%	0.647%
239	17.165	17.144	17.180	VV	10623	205500	5.54%	0.357%
240	17.220	17.180	17.230	VV	11180	311332	8.39%	0.541%
241	17.248	17.230	17.268	VV	11199	233474	6.29%	0.406%
242	17.287	17.268	17.301	VV	10059	177362	4.78%	0.308%
243	17.357	17.301	17.381	VV	10687	464431	12.52%	0.807%
244	17.395	17.381	17.415	VV	14504	240723	6.49%	0.419%
245	17.432	17.415	17.458	VV	10660	224950	6.06%	0.391%
246	17.468	17.458	17.481	VV	7750	99049	2.67%	0.172%
247	17.492	17.481	17.508	VV	6760	96484	2.60%	0.168%
248	17.555	17.508	17.565	VV	8916	227957	6.15%	0.396%
249	17.602	17.565	17.654	VV	10334	463644	12.50%	0.806%
250	17.688	17.654	17.700	VV	11927	254064	6.85%	0.442%
251	17.783	17.700	17.791	VV	16279	682160	18.39%	1.186%
252	17.818	17.791	17.836	VV	16528	404901	10.91%	0.704%
253	17.868	17.836	17.878	VV	16523	383924	10.35%	0.667%
254	17.894	17.878	17.919	VV	16295	367567	9.91%	0.639%
255	17.940	17.919	17.975	VV	19339	488372	13.17%	0.849%
256	17.986	17.975	18.004	VV	13715	217433	5.86%	0.378%
257	18.034	18.004	18.051	VV	13944	355368	9.58%	0.618%
258	18.117	18.051	18.132	VV	15496	648609	17.48%	1.128%
259	18.188	18.132	18.214	VV	22449	968545	26.11%	1.684%
260	18.260	18.214	18.273	VV	30202	965011	26.01%	1.678%
261	18.279	18.273	18.325	VV	28109	757495	20.42%	1.317%
262	18.355	18.325	18.370	VV	24489	607282	16.37%	1.056%
263	18.415	18.370	18.496	VV	39547	2047465	55.19%	3.560%
264	18.514	18.496	18.524	VV	26326	393407	10.61%	0.684%
265	18.553	18.524	18.563	VV	24695	563376	15.19%	0.979%
266	18.625	18.563	18.661	VV	28570	1420882	38.30%	2.470%
267	18.680	18.661	18.697	VV	24586	483993	13.05%	0.841%
268	18.732	18.697	18.741	VV	26609	633869	17.09%	1.102%
269	18.786	18.741	18.831	VV	41543	1740054	46.91%	3.025%

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270	18.872	18.861	18.879	VV	31852	323139	8.71%	0.562%
271	19.005	18.993	19.032	VV	43822	883490	23.82%	1.536%
272	19.211	19.191	19.241	VV	59600	1489838	40.16%	2.590%
273	19.466	19.455	19.485	VV	62406	1063687	28.67%	1.849%
274	19.496	19.485	19.511	VV	65733	988871	26.66%	1.719%
275	19.817	19.801	19.831	VV	59615	1037858	27.98%	1.804%
276	19.895	19.865	19.904	VV	66690	1459574	39.35%	2.538%
277	20.134	20.119	20.145	VV	85572	1293022	34.86%	2.248%
278	20.214	20.181	20.230	VV	87424	2454395	66.16%	4.267%
279	20.595	20.568	20.614	VV	118007	2990171	80.61%	5.199%
280	20.869	20.842	20.885	VV	107160	2646043	71.33%	4.600%
281	21.068	21.059	21.115	VV	93978	2833565	76.38%	4.926%
282	21.129	21.115	21.141	VV	83409	1259074	33.94%	2.189%
283	21.336	21.325	21.343	VV	92704	1002175	27.02%	1.742%
284	21.515	21.500	21.532	VV	63725	1113930	30.03%	1.937%
285	21.659	21.651	21.666	VV	64151	543690	14.66%	0.945%
286	21.734	21.666	21.765	VV	70059	3709586	100.00%	6.450%
287	21.989	21.981	22.048	VV	42663	1301442	35.08%	2.263%
288	22.085	22.048	22.099	VV	32811	879297	23.70%	1.529%
289	22.139	22.099	22.161	VV	36382	1218255	32.84%	2.118%
290	22.305	22.294	22.321	VV	27442	379623	10.23%	0.660%
291	22.385	22.371	22.443	VV	31641	1028645	27.73%	1.788%
292	22.451	22.443	22.471	VV	13700	206404	5.56%	0.359%
293	22.510	22.471	22.527	VV	16878	388862	10.48%	0.676%
294	22.540	22.527	22.601	VBA	15017	619065	16.69%	1.076%

Sum of corrected areas: 57516862

Aliphatic EPH 092425.M Thu Sep 25 18:41:44 2025

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

Report of Analysis

Client:	G Environmental			Date Collected:	09/24/25
Project:	TGP			Date Received:	09/24/25
Client Sample ID:	RB105			SDG No.:	Q3192
Lab Sample ID:	Q3192-02			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	93.8
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
09/25/25 08:15	09/25/25 16:20	PB169823

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	1.21		1	0.15	1.06	mg/kg	FG016649.D
Aliphatic C12-C16	Aliphatic C12-C16	4.76		1	0.12	0.71	mg/kg	FG016649.D
Aliphatic C16-C21	Aliphatic C16-C21	14.1		1	0.14	1.06	mg/kg	FG016649.D
Aliphatic C21-C28	Aliphatic C21-C28	216		20	11.3	28.4	mg/kg	FG016652.D
Aliphatic C28-C40	Aliphatic C28-C40	536		20	25.1	42.6	mg/kg	FG016652.D
Aromatic C10-C12	Aromatic C10-C12	0.81		1	0.13	0.71	mg/kg	FF016453.D
Aromatic C12-C16	Aromatic C12-C16	2.56		1	0.25	1.06	mg/kg	FF016453.D
Aromatic C16-C21	Aromatic C16-C21	14.9		1	0.43	1.77	mg/kg	FF016453.D
Aromatic C21-C36	Aromatic C21-C36	35.7		1	1.27	2.84	mg/kg	FF016453.D
Total AliphaticEPH	Total AliphaticEPH	772			36.8	73.8	mg/kg	
Total AromaticEPH	Total AromaticEPH	54.0			2.07	6.38	mg/kg	
Total EPH	Total EPH	826			38.9	80.2	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

Report of Analysis

Client:	G Environmental		Date Collected:	09/24/25	
Project:	TGP		Date Received:	09/24/25	
Client Sample ID:	RB105		SDG No.:	Q3192	
Lab Sample ID:	Q3192-02		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	93.8	
Sample Wt/Vol:	30.06	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016453.D	1	09/25/25	09/25/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.81		0.13	0.71	mg/kg
Aromatic C12-C16	Aromatic C12-C16	2.56		0.25	1.06	mg/kg
Aromatic C16-C21	Aromatic C16-C21	14.9		0.43	1.77	mg/kg
Aromatic C21-C36	Aromatic C21-C36	35.7		1.27	2.84	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	53.9		40 - 140	108%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.4		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.4		40 - 140	63%	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:	Q3192-02	Acq On:	25 Sep 2025 16:20
Client Sample ID:	RB105	Operator:	YP\AJ
Data file:	FF016453.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	6.398	1627019	11.352	200	ug/ml
Aromatic C12-C16	6.399	9.102	5238375	36.081	300	ug/ml
Aromatic C16-C21	9.103	13.422	30378855	210.711	500	ug/ml
Aromatic C21-C36	13.423	18.876	65811308	503.014	800	ug/ml
Aromatic EPH	4.521	18.876	103055557	761.157		ug/ml
2-Bromonaphthalene (SURR)	8.035	8.035	6747880	53.87		ug/ml
2-Flurobiphenyl (SURR)	8.912	8.912	4253259	50.43		ug/ml
ortho-Terphenyl (SURR)	11.980	11.980	4787239	31.4		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016453.D
Signal(s) : FID2B.ch
Acq On : 25 Sep 2025 16:20
Operator : YP\AJ
Sample : Q3192-02
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
RB105

Integration File: autoint1.e
Quant Time: Sep 25 16:36:06 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...	8.035	6747880	53.868 ug/ml
Spiked Amount 50.000		Recovery = 107.74%	
6) S 2-Flurobiphenyl (SURR)	8.912	4253259	50.430 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 100.86%	
11) S ortho-Terphenyl (SURR)	11.980	4787239	31.402 ug/ml
Spiked Amount 50.000		Recovery = 62.80%	
Target Compounds			

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

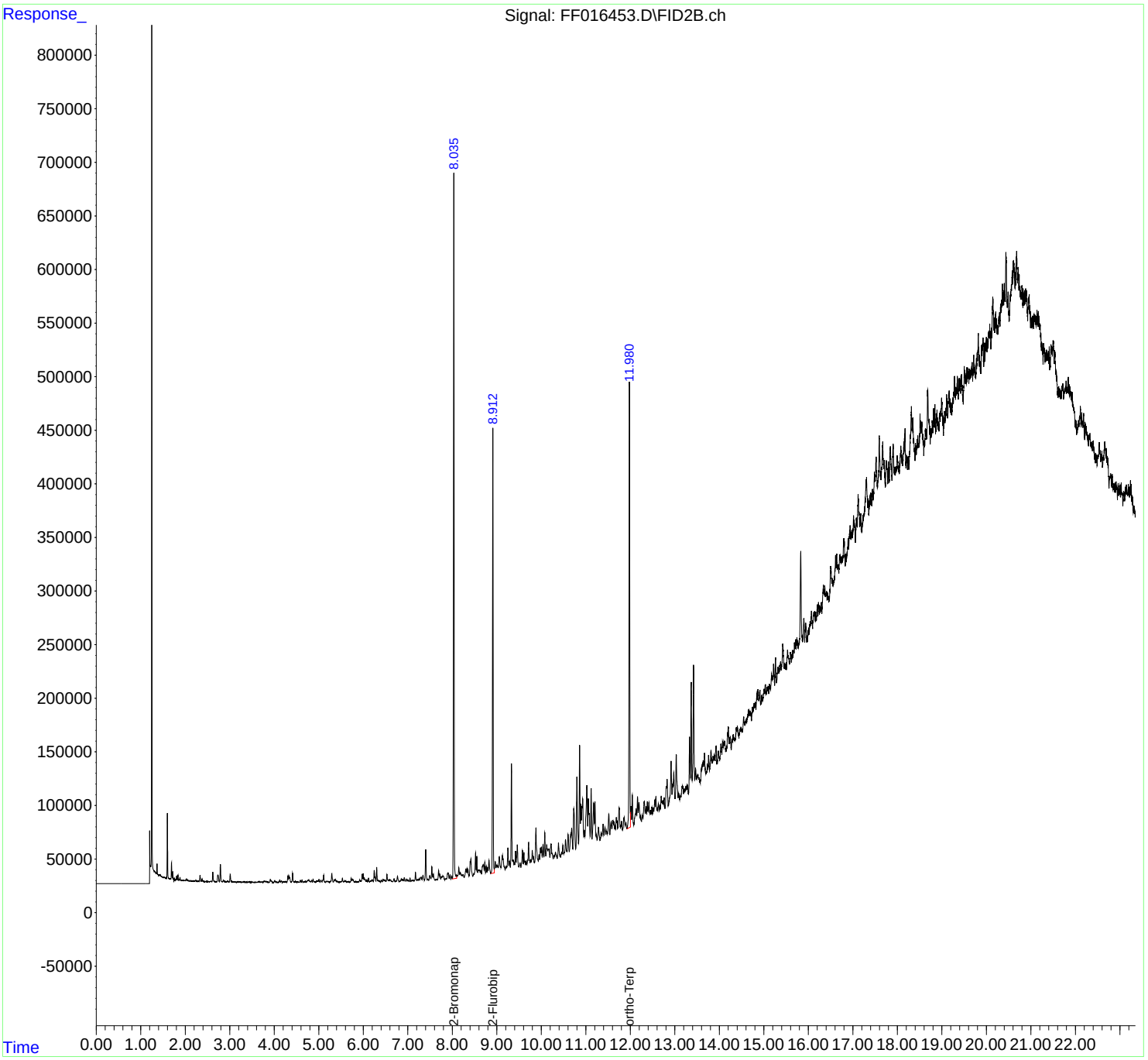
Quantitation Report (QT Reviewed)

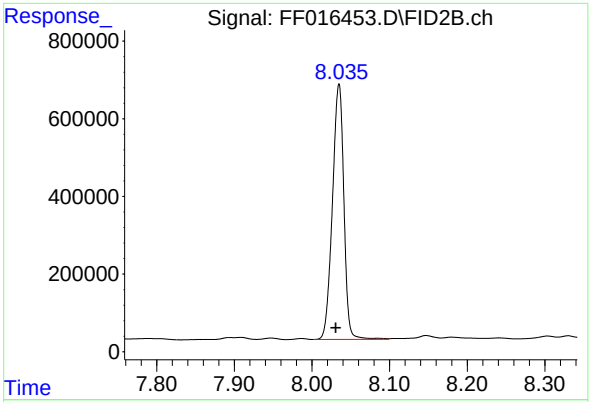
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016453.D
Signal(s) : FID2B.ch
Acq On : 25 Sep 2025 16:20
Operator : YP\AJ
Sample : Q3192-02
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
RB105

Integration File: autoint1.e
Quant Time: Sep 25 16:36:06 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

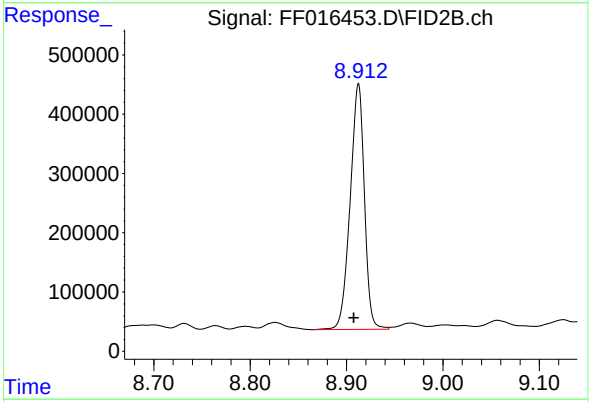




#4 2-Bromonaphthalene (SURR)

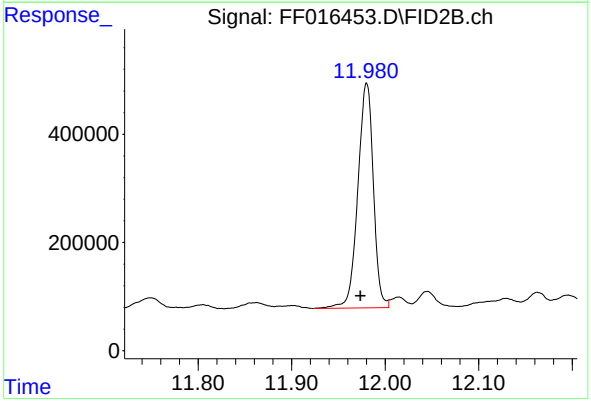
R.T.: 8.035 min
Delta R.T.: 0.004 min
Response: 6747880
Conc: 53.87 ug/ml

Instrument :
FID_F
ClientSampleId :
RB105



#6 2-Flurobiphenyl (SURR)

R.T.: 8.912 min
Delta R.T.: 0.005 min
Response: 4253259
Conc: 50.43 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.980 min
Delta R.T.: 0.007 min
Response: 4787239
Conc: 31.40 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016453.D
Signal(s) : FID2B.ch
Acq On : 25 Sep 2025 16:20
Sample : Q3192-02
Misc :
ALS Vial : 82 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	4.412	4.400	4.451	BV	7202	60136	0.90%	0.051%
2	4.472	4.451	4.489	PV	515	5773	0.09%	0.005%
3	4.494	4.489	4.509	VV	275	1739	0.03%	0.001%
4	4.527	4.509	4.562	PV	495	5346	0.08%	0.004%
5	4.587	4.562	4.607	PV	2136	23589	0.35%	0.020%
6	4.624	4.607	4.649	VV	2314	22765	0.34%	0.019%
7	4.664	4.649	4.682	VV	864	10158	0.15%	0.009%
8	4.698	4.682	4.705	VV	716	6659	0.10%	0.006%
9	4.712	4.705	4.727	VV	664	7485	0.11%	0.006%
10	4.755	4.727	4.760	VV	1767	24745	0.37%	0.021%
11	4.776	4.760	4.795	VV	2675	39432	0.59%	0.033%
12	4.807	4.795	4.824	VV	972	14396	0.21%	0.012%
13	4.841	4.824	4.856	VV	1925	22855	0.34%	0.019%
14	4.873	4.856	4.891	VV	3154	34830	0.52%	0.029%
15	4.897	4.891	4.919	VV	701	7782	0.12%	0.007%
16	4.950	4.919	4.961	VV	1073	16847	0.25%	0.014%
17	4.976	4.961	4.987	VV	1323	16445	0.24%	0.014%
18	5.005	4.987	5.023	VV	2909	33720	0.50%	0.028%
19	5.048	5.023	5.070	VV	2072	32273	0.48%	0.027%
20	5.089	5.070	5.094	VV	2039	18730	0.28%	0.016%
21	5.110	5.094	5.148	VV	6747	79049	1.18%	0.067%
22	5.169	5.148	5.183	VV	1237	13813	0.21%	0.012%
23	5.203	5.183	5.246	VV	1101	20040	0.30%	0.017%
24	5.268	5.246	5.275	VV	1346	13217	0.20%	0.011%
25	5.293	5.275	5.327	VV	8291	107551	1.60%	0.090%

26	5.351	5.327	5.363	VV	2474	32152	0.48%	0.027%
27	5.376	5.363	5.397	VV	3113	36650	0.55%	0.031%
28	5.410	5.397	5.453	VV	1069	19631	0.29%	0.017%
29	5.502	5.453	5.513	PV	654	11572	0.17%	0.010%
30	5.532	5.513	5.557	VV	4014	44802	0.67%	0.038%
31	5.584	5.557	5.597	VV	1696	22519	0.34%	0.019%
32	5.607	5.597	5.625	VV	1338	14984	0.22%	0.013%
33	5.649	5.625	5.658	VV	455	6648	0.10%	0.006%
34	5.671	5.658	5.684	VV	807	8853	0.13%	0.007%
35	5.694	5.684	5.707	VV	391	4328	0.06%	0.004%
36	5.729	5.707	5.747	VV	3930	50463	0.75%	0.042%
37	5.759	5.747	5.769	VV	2989	32097	0.48%	0.027%
38	5.776	5.769	5.819	VV	2316	26304	0.39%	0.022%
39	5.837	5.819	5.856	VV	611	7575	0.11%	0.006%
40	5.921	5.868	5.946	PV	2296	37896	0.56%	0.032%
41	5.977	5.946	5.988	VV	7589	87860	1.31%	0.074%
42	6.000	5.988	6.013	VV	7864	77397	1.15%	0.065%
43	6.022	6.013	6.037	VV	4147	44688	0.67%	0.038%
44	6.046	6.037	6.065	VV	2413	27826	0.41%	0.023%
45	6.080	6.065	6.100	VV	2305	25233	0.38%	0.021%
46	6.119	6.100	6.139	VV	3785	39463	0.59%	0.033%
47	6.172	6.139	6.183	VV	1324	21768	0.32%	0.018%
48	6.196	6.183	6.227	VV	2234	39607	0.59%	0.033%
49	6.246	6.227	6.260	VV	10897	111437	1.66%	0.094%
50	6.266	6.260	6.283	VV	4697	42122	0.63%	0.035%
51	6.302	6.283	6.326	VV	13640	147073	2.19%	0.124%
52	6.341	6.326	6.385	VV	1831	34344	0.51%	0.029%
53	6.409	6.385	6.427	PV	1778	24111	0.36%	0.020%
54	6.449	6.427	6.466	VV	2429	37381	0.56%	0.031%
55	6.481	6.466	6.502	VV	1862	29764	0.44%	0.025%
56	6.508	6.502	6.515	VV	985	7307	0.11%	0.006%
57	6.532	6.515	6.566	VV	7113	91680	1.37%	0.077%
58	6.579	6.566	6.607	VV	2102	42589	0.63%	0.036%
59	6.615	6.607	6.633	VV	1984	21595	0.32%	0.018%
60	6.640	6.633	6.653	VV	497	5101	0.08%	0.004%
61	6.691	6.653	6.720	VV	3019	47798	0.71%	0.040%
62	6.730	6.720	6.741	VV	679	7103	0.11%	0.006%
63	6.768	6.741	6.813	VV	5156	79586	1.19%	0.067%
64	6.853	6.813	6.867	VV	2834	42300	0.63%	0.036%
65	6.883	6.867	6.903	VV	2397	37337	0.56%	0.031%
66	6.920	6.903	6.944	VV	3762	46103	0.69%	0.039%
67	6.965	6.944	6.983	VV	2560	36063	0.54%	0.030%
68	6.996	6.983	7.009	VV	1533	15677	0.23%	0.013%
69	7.020	7.009	7.033	VV	1041	10640	0.16%	0.009%

rteres

70	7.050	7.033	7.068	VV	3522	34006	0.51%	0.029%
71	7.088	7.068	7.103	PV	1210	15118	0.23%	0.013%
72	7.115	7.103	7.139	VV	1230	17959	0.27%	0.015%
73	7.173	7.139	7.201	VV	8427	104323	1.55%	0.088%
74	7.223	7.201	7.235	VV	1446	23175	0.35%	0.019%
75	7.250	7.235	7.264	VV	1863	22807	0.34%	0.019%
76	7.299	7.264	7.317	VV	3864	82462	1.23%	0.069%
77	7.341	7.317	7.374	VV	5286	91237	1.36%	0.077%
78	7.403	7.374	7.437	VV	29217	357451	5.32%	0.301%
79	7.453	7.437	7.470	VV	1716	20911	0.31%	0.018%
80	7.492	7.470	7.519	VV	4791	78556	1.17%	0.066%
81	7.540	7.519	7.561	VV	12891	157219	2.34%	0.132%
82	7.575	7.561	7.607	VV	6028	80740	1.20%	0.068%
83	7.618	7.607	7.624	VV	359	3319	0.05%	0.003%
84	7.651	7.624	7.667	VV	762	13132	0.20%	0.011%
85	7.693	7.667	7.707	VV	9109	109444	1.63%	0.092%
86	7.718	7.707	7.740	VV	5881	74209	1.11%	0.062%
87	7.754	7.740	7.763	VV	3302	33158	0.49%	0.028%
88	7.789	7.763	7.832	VV	3718	100713	1.50%	0.085%
89	7.864	7.832	7.870	PV	937	13677	0.20%	0.012%
90	7.894	7.870	7.900	VV	5756	59883	0.89%	0.050%
91	7.909	7.900	7.929	VV	6052	66497	0.99%	0.056%
92	7.948	7.929	7.969	VV	4126	48510	0.72%	0.041%
93	7.987	7.969	8.002	PV	2824	26290	0.39%	0.022%
94	8.035	8.002	8.076	VV	659989	6713453	100.00%	5.648%
95	8.084	8.076	8.099	VV	2888	34896	0.52%	0.029%
96	8.147	8.099	8.167	VV	9623	173617	2.59%	0.146%
97	8.180	8.167	8.223	VV	5224	112677	1.68%	0.095%
98	8.241	8.223	8.266	VV	2856	45735	0.68%	0.038%
99	8.304	8.266	8.317	VV	7479	113699	1.69%	0.096%
100	8.330	8.317	8.342	VV	8144	93769	1.40%	0.079%
101	8.353	8.342	8.370	VV	6953	73115	1.09%	0.062%
102	8.376	8.370	8.382	VV	1173	7811	0.12%	0.007%
103	8.403	8.382	8.410	VV	14650	144108	2.15%	0.121%
104	8.418	8.410	8.461	VV	16444	209677	3.12%	0.176%
105	8.524	8.461	8.538	PV	21648	291558	4.34%	0.245%
106	8.551	8.538	8.570	VV	17976	191128	2.85%	0.161%
107	8.584	8.570	8.594	VV	5368	62868	0.94%	0.053%
108	8.613	8.594	8.626	VV	4925	82702	1.23%	0.070%
109	8.639	8.626	8.657	VV	4517	57059	0.85%	0.048%
110	8.699	8.657	8.718	VV	9144	235338	3.51%	0.198%
111	8.731	8.718	8.748	VV	11418	123965	1.85%	0.104%
112	8.764	8.748	8.779	VV	7504	81432	1.21%	0.069%

rteres

113	8.795	8.779	8.808	VV	6172	76079	1.13%	0.064%
114	8.826	8.808	8.865	VV	12661	194186	2.89%	0.163%
115	8.912	8.865	8.943	PV	414970	4252964	63.35%	3.578%
116	8.966	8.943	8.984	VV	10299	163790	2.44%	0.138%
117	9.003	8.984	9.015	VV	6978	108433	1.62%	0.091%
118	9.021	9.015	9.034	VV	5562	56346	0.84%	0.047%
119	9.057	9.034	9.097	VV	14203	287456	4.28%	0.242%
120	9.125	9.097	9.136	VV	14799	235709	3.51%	0.198%
121	9.143	9.136	9.164	VV	11476	138332	2.06%	0.116%
122	9.169	9.164	9.187	VV	4156	38794	0.58%	0.033%
123	9.205	9.187	9.215	VV	3831	44835	0.67%	0.038%
124	9.222	9.215	9.230	VV	3634	32213	0.48%	0.027%
125	9.250	9.230	9.271	VV	20739	272613	4.06%	0.229%
126	9.284	9.271	9.305	VV	8009	110703	1.65%	0.093%
127	9.330	9.305	9.362	VV	98617	1106666	16.48%	0.931%
128	9.371	9.362	9.387	VV	8448	104025	1.55%	0.088%
129	9.397	9.387	9.405	VV	5103	47508	0.71%	0.040%
130	9.421	9.405	9.435	VV	16292	182208	2.71%	0.153%
131	9.462	9.435	9.497	VV	21735	353842	5.27%	0.298%
132	9.522	9.497	9.542	VV	4539	61876	0.92%	0.052%
133	9.577	9.542	9.595	PV	15503	226927	3.38%	0.191%
134	9.610	9.595	9.625	VV	13205	141191	2.10%	0.119%
135	9.632	9.625	9.645	VV	4660	43668	0.65%	0.037%
136	9.660	9.645	9.676	VV	4969	57152	0.85%	0.048%
137	9.714	9.676	9.749	VV	21573	336956	5.02%	0.283%
138	9.763	9.749	9.777	VV	5157	62918	0.94%	0.053%
139	9.798	9.777	9.813	VV	13048	165955	2.47%	0.140%
140	9.824	9.813	9.847	VV	7265	87716	1.31%	0.074%
141	9.879	9.847	9.932	VV	33324	579598	8.63%	0.488%
142	9.949	9.932	9.963	VV	7699	92535	1.38%	0.078%
143	9.980	9.963	9.991	VV	13534	157660	2.35%	0.133%
144	10.003	9.991	10.021	VV	14202	176799	2.63%	0.149%
145	10.038	10.021	10.058	VV	16206	220456	3.28%	0.185%
146	10.078	10.058	10.102	VV	27059	343851	5.12%	0.289%
147	10.122	10.102	10.147	VV	13974	279654	4.17%	0.235%
148	10.157	10.147	10.166	VV	10963	116867	1.74%	0.098%
149	10.172	10.166	10.192	VV	10582	118344	1.76%	0.100%
150	10.216	10.192	10.268	VV	14640	342807	5.11%	0.288%
151	10.288	10.268	10.300	VV	3706	52789	0.79%	0.044%
152	10.319	10.300	10.335	VV	6582	96381	1.44%	0.081%
153	10.341	10.335	10.355	VV	3078	24149	0.36%	0.020%
154	10.386	10.355	10.434	PV	14026	230195	3.43%	0.194%
155	10.454	10.434	10.463	PV	3791	42249	0.63%	0.036%

156	10.484	10.463	10.503	VV	10521	143580	2.14%	0.121%
157	10.511	10.503	10.515	VV	2958	19905	0.30%	0.017%
158	10.544	10.515	10.578	VV	14945	257764	3.84%	0.217%
159	10.602	10.578	10.627	VV	18491	284739	4.24%	0.240%
160	10.661	10.627	10.667	VV	17729	251987	3.75%	0.212%
161	10.682	10.667	10.706	VV	22926	344949	5.14%	0.290%
162	10.729	10.706	10.772	VV	40280	805210	11.99%	0.677%
163	10.799	10.772	10.836	VV	68557	1001419	14.92%	0.843%
164	10.860	10.836	10.878	VV	97101	1191562	17.75%	1.002%
165	10.889	10.878	10.902	VV	41382	476762	7.10%	0.401%
166	10.916	10.902	10.920	VV	39381	368615	5.49%	0.310%
167	10.930	10.920	10.956	VV	45910	618710	9.22%	0.521%
168	10.970	10.956	10.981	VV	15660	197559	2.94%	0.166%
169	11.023	10.981	11.042	VV	56720	1228977	18.31%	1.034%
170	11.056	11.042	11.069	VV	43235	543107	8.09%	0.457%
171	11.074	11.069	11.097	VV	29801	329987	4.92%	0.278%
172	11.119	11.097	11.139	VV	52137	627809	9.35%	0.528%
173	11.176	11.139	11.192	VV	37567	674174	10.04%	0.567%
174	11.206	11.192	11.226	VV	37869	475918	7.09%	0.400%
175	11.230	11.226	11.253	VV	7016	82714	1.23%	0.070%
176	11.284	11.253	11.317	VV	12898	233149	3.47%	0.196%
177	11.347	11.317	11.362	VV	6479	102990	1.53%	0.087%
178	11.388	11.362	11.406	VV	13839	214582	3.20%	0.181%
179	11.431	11.406	11.449	VV	10224	181116	2.70%	0.152%
180	11.466	11.449	11.479	VV	6269	94501	1.41%	0.080%
181	11.516	11.479	11.540	VV	21016	361028	5.38%	0.304%
182	11.566	11.540	11.584	VV	12471	220458	3.28%	0.185%
183	11.603	11.584	11.619	VV	13873	227162	3.38%	0.191%
184	11.623	11.619	11.648	VV	11620	158621	2.36%	0.133%
185	11.657	11.648	11.665	VV	7264	62857	0.94%	0.053%
186	11.685	11.665	11.719	VV	15007	308121	4.59%	0.259%
187	11.749	11.719	11.784	VV	22781	463068	6.90%	0.390%
188	11.805	11.784	11.828	VV	9367	143392	2.14%	0.121%
189	11.863	11.828	11.882	VV	11978	220093	3.28%	0.185%
190	11.887	11.882	11.890	VV	4893	24208	0.36%	0.020%
191	11.901	11.890	11.923	VV	5690	70510	1.05%	0.059%
192	11.980	11.923	12.002	PV	415121	4772105	71.08%	4.015%
193	12.014	12.002	12.028	VV	19110	224109	3.34%	0.189%
194	12.045	12.028	12.078	VV	29058	361566	5.39%	0.304%
195	12.129	12.078	12.145	VV	13999	312965	4.66%	0.263%
196	12.163	12.145	12.178	VV	24706	316824	4.72%	0.267%
197	12.195	12.178	12.220	VV	18762	317178	4.72%	0.267%
198	12.230	12.220	12.248	VV	4965	49204	0.73%	0.041%
199	12.266	12.248	12.284	PV	5220	65239	0.97%	0.055%

200	12.315	12.284	12.337	VV	17286	327075	4.87%	0.275%
201	12.354	12.337	12.367	VV	11487	145281	2.16%	0.122%
202	12.382	12.367	12.398	VV	15196	188771	2.81%	0.159%
203	12.417	12.398	12.437	VV	13881	197979	2.95%	0.167%
204	12.451	12.437	12.465	VV	5414	70313	1.05%	0.059%
205	12.485	12.465	12.503	VV	8117	106331	1.58%	0.089%
206	12.517	12.503	12.529	VV	6804	71687	1.07%	0.060%
207	12.552	12.529	12.563	VV	12993	178110	2.65%	0.150%
208	12.576	12.563	12.596	VV	15740	190511	2.84%	0.160%
209	12.603	12.596	12.614	VV	3454	29869	0.44%	0.025%
210	12.631	12.614	12.650	VV	7720	103518	1.54%	0.087%
211	12.668	12.650	12.677	VV	5007	52433	0.78%	0.044%
212	12.697	12.677	12.724	VV	13216	239353	3.57%	0.201%
213	12.730	12.724	12.746	VV	7753	86366	1.29%	0.073%
214	12.761	12.746	12.778	VV	10624	119557	1.78%	0.101%
215	12.809	12.778	12.815	PV	19660	228834	3.41%	0.193%
216	12.827	12.815	12.852	VV	26110	352255	5.25%	0.296%
217	12.917	12.852	12.937	VV	40928	740361	11.03%	0.623%
218	12.954	12.937	12.960	VV	18719	201203	3.00%	0.169%
219	12.977	12.960	13.010	VV	28599	458339	6.83%	0.386%
220	13.032	13.010	13.075	VV	43191	721833	10.75%	0.607%
221	13.088	13.075	13.108	VV	6253	69689	1.04%	0.059%
222	13.119	13.108	13.128	PV	2585	23080	0.34%	0.019%
223	13.135	13.128	13.141	VV	3026	19076	0.28%	0.016%
224	13.169	13.141	13.195	VV	10809	242727	3.62%	0.204%
225	13.215	13.195	13.226	VV	6667	95087	1.42%	0.080%
226	13.249	13.226	13.260	VV	8662	127945	1.91%	0.108%
227	13.280	13.260	13.302	VV	9200	162040	2.41%	0.136%
228	13.332	13.302	13.347	PV	51877	574451	8.56%	0.483%
229	13.368	13.347	13.389	VV	101866	1222783	18.21%	1.029%
230	13.422	13.389	13.451	VV	115498	1647469	24.54%	1.386%
231	13.466	13.451	13.489	VV	18432	267913	3.99%	0.225%
232	13.501	13.489	13.509	VV	9608	105600	1.57%	0.089%
233	13.521	13.509	13.554	VV	9266	181245	2.70%	0.152%
234	13.560	13.554	13.572	VV	3490	23946	0.36%	0.020%
235	13.638	13.572	13.650	PV	18458	553881	8.25%	0.466%
236	13.668	13.650	13.692	VV	23573	347389	5.17%	0.292%
237	13.729	13.692	13.739	VV	11273	158080	2.35%	0.133%
238	13.757	13.739	13.779	VV	17713	237907	3.54%	0.200%
239	13.811	13.779	13.839	VV	19914	389823	5.81%	0.328%
240	13.859	13.839	13.877	VV	12258	219338	3.27%	0.185%
241	13.886	13.877	13.907	VV	12510	171243	2.55%	0.144%
242	13.923	13.907	13.949	VV	18958	280131	4.17%	0.236%

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243	13.977	13.949	14.007	VV	12050	224633	3.35%	0.189%
244	14.038	14.007	14.057	VV	15727	278647	4.15%	0.234%
245	14.073	14.057	14.086	VV	16407	219992	3.28%	0.185%
246	14.103	14.086	14.110	VV	14677	190143	2.83%	0.160%
247	14.119	14.110	14.147	VV	15004	212702	3.17%	0.179%
248	14.162	14.147	14.168	VV	8198	76559	1.14%	0.064%
249	14.198	14.168	14.219	VV	24776	498653	7.43%	0.420%
250	14.241	14.219	14.268	VV	13073	253632	3.78%	0.213%
251	14.282	14.268	14.296	PV	8637	100943	1.50%	0.085%
252	14.313	14.296	14.338	VV	11498	200147	2.98%	0.168%
253	14.342	14.338	14.350	VV	5397	35779	0.53%	0.030%
254	14.356	14.350	14.361	VV	5376	31304	0.47%	0.026%
255	14.388	14.361	14.395	VV	14194	209538	3.12%	0.176%
256	14.406	14.395	14.440	VV	13944	225398	3.36%	0.190%
257	14.471	14.440	14.484	VV	8078	144493	2.15%	0.122%
258	14.491	14.484	14.519	VV	7944	105967	1.58%	0.089%
259	14.547	14.519	14.567	VV	13682	235263	3.50%	0.198%
260	14.573	14.567	14.578	VV	7643	42172	0.63%	0.035%
261	14.658	14.578	14.672	VV	14402	503029	7.49%	0.423%
262	14.688	14.672	14.698	VV	11825	158188	2.36%	0.133%
263	14.704	14.698	14.723	VV	8979	85198	1.27%	0.072%
264	14.750	14.723	14.757	VV	11577	152293	2.27%	0.128%
265	14.780	14.757	14.792	VV	13011	210917	3.14%	0.177%
266	14.809	14.792	14.823	VV	12096	177300	2.64%	0.149%
267	14.842	14.823	14.852	VV	18531	228479	3.40%	0.192%
268	14.867	14.852	14.884	VV	20864	306885	4.57%	0.258%
269	14.889	14.884	14.893	VV	10944	56353	0.84%	0.047%
270	14.912	14.893	14.925	VV	17601	236130	3.52%	0.199%
271	14.935	14.925	14.940	VV	6040	36375	0.54%	0.031%
272	14.957	14.940	14.967	VV	10637	116297	1.73%	0.098%
273	15.004	14.967	15.017	VV	13275	254390	3.79%	0.214%
274	15.036	15.017	15.050	VV	15739	225676	3.36%	0.190%
275	15.069	15.050	15.074	VV	10465	108307	1.61%	0.091%
276	15.098	15.074	15.110	VV	9705	172314	2.57%	0.145%
277	15.116	15.110	15.122	VV	8342	47687	0.71%	0.040%
278	15.126	15.122	15.130	VV	10695	43047	0.64%	0.036%
279	15.134	15.130	15.140	VV	6981	38977	0.58%	0.033%
280	15.145	15.140	15.150	VV	7903	36534	0.54%	0.031%
281	15.172	15.150	15.188	VV	17666	260219	3.88%	0.219%
282	15.218	15.188	15.244	VV	23929	454924	6.78%	0.383%
283	15.263	15.244	15.283	VV	27516	352410	5.25%	0.296%
284	15.318	15.283	15.332	VV	14970	285262	4.25%	0.240%
285	15.343	15.332	15.350	VV	12347	114019	1.70%	0.096%

286	15.356	15.350	15.362	VV	13957	88265	1.31%	0.074%
287	15.376	15.362	15.396	VV	16413	263336	3.92%	0.222%
288	15.423	15.396	15.465	VV	30601	692945	10.32%	0.583%
289	15.474	15.465	15.486	VV	8966	84836	1.26%	0.071%
290	15.503	15.486	15.509	VV	8521	74951	1.12%	0.063%
291	15.532	15.509	15.543	VV	18637	241300	3.59%	0.203%
292	15.547	15.543	15.580	VV	12070	167219	2.49%	0.141%
293	15.600	15.580	15.619	VV	12311	182587	2.72%	0.154%
294	15.639	15.619	15.654	VV	11646	132397	1.97%	0.111%
295	15.667	15.654	15.679	VV	10238	124847	1.86%	0.105%
296	15.687	15.679	15.697	VV	16328	131144	1.95%	0.110%
297	15.718	15.697	15.726	VV	17347	226190	3.37%	0.190%
298	15.731	15.726	15.734	VV	13086	50478	0.75%	0.042%
299	15.744	15.734	15.769	VV	17597	266307	3.97%	0.224%
300	15.829	15.769	15.871	VV	92265	1715700	25.56%	1.443%
301	15.900	15.871	15.918	VV	26066	427910	6.37%	0.360%
302	15.941	15.918	15.963	VV	18237	308877	4.60%	0.260%
303	15.975	15.963	15.981	VV	5580	39833	0.59%	0.034%
304	16.004	15.981	16.023	PV	10972	175185	2.61%	0.147%
305	16.039	16.023	16.049	VV	14184	174673	2.60%	0.147%
306	16.069	16.049	16.095	VV	21866	392819	5.85%	0.330%
307	16.122	16.095	16.130	VV	17767	270091	4.02%	0.227%
308	16.134	16.130	16.137	VV	16537	62432	0.93%	0.053%
309	16.140	16.137	16.160	VV	17471	153083	2.28%	0.129%
310	16.166	16.160	16.171	VV	14669	72234	1.08%	0.061%
311	16.205	16.171	16.215	VV	19677	315818	4.70%	0.266%
312	16.229	16.215	16.246	VV	19500	266289	3.97%	0.224%
313	16.252	16.246	16.260	VV	13824	103710	1.54%	0.087%
314	16.265	16.260	16.278	VV	12970	113469	1.69%	0.095%
315	16.297	16.278	16.304	VV	15099	182780	2.72%	0.154%
316	16.339	16.304	16.360	VV	28190	660453	9.84%	0.556%
317	16.371	16.360	16.395	VV	25764	399108	5.94%	0.336%
318	16.409	16.395	16.446	VV	18043	432911	6.45%	0.364%
319	16.453	16.446	16.459	VV	9386	62748	0.93%	0.053%
320	16.465	16.459	16.474	VV	9704	64881	0.97%	0.055%
321	16.502	16.474	16.526	VV	34426	741945	11.05%	0.624%
322	16.541	16.526	16.552	VV	21239	301389	4.49%	0.254%
323	16.583	16.552	16.588	VV	20385	360617	5.37%	0.303%
324	16.611	16.588	16.616	VV	38143	450705	6.71%	0.379%
325	16.620	16.616	16.624	VV	35816	169058	2.52%	0.142%
326	16.637	16.624	16.660	VV	37751	652397	9.72%	0.549%
327	16.664	16.660	16.670	VV	25759	146998	2.19%	0.124%
328	16.674	16.670	16.685	VV	25642	192679	2.87%	0.162%
329	16.709	16.685	16.724	VV	32237	629910	9.38%	0.530%

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330	16.753	16.724	16.769	VV	27399	679564	10.12%	0.572%
331	16.795	16.769	16.801	VV	40756	611528	9.11%	0.514%
332	16.805	16.801	16.830	VV	39700	491729	7.32%	0.414%
333	16.838	16.830	16.854	VV	23940	271780	4.05%	0.229%
334	16.893	16.854	16.909	VV	35072	870668	12.97%	0.733%
335	16.929	16.909	16.934	VV	40358	520723	7.76%	0.438%
336	16.939	16.934	16.957	VV	44024	493128	7.35%	0.415%
337	16.977	16.957	16.987	VV	37661	601041	8.95%	0.506%
338	17.016	16.987	17.033	VV	47615	1058886	15.77%	0.891%
339	17.037	17.033	17.056	VV	40177	452038	6.73%	0.380%
340	17.086	17.056	17.100	VV	42249	897424	13.37%	0.755%
341	17.118	17.100	17.123	VV	61314	665291	9.91%	0.560%
342	17.125	17.123	17.139	VV	56712	466915	6.95%	0.393%
343	17.141	17.139	17.158	VV	43771	418418	6.23%	0.352%
344	17.160	17.158	17.164	VV	33656	121501	1.81%	0.102%
345	17.177	17.164	17.206	VV	38648	733397	10.92%	0.617%
346	17.229	17.206	17.235	VV	34947	498738	7.43%	0.420%
347	17.308	17.235	17.334	VV	64850	2671659	39.80%	2.248%
348	17.338	17.334	17.358	VV	42714	518886	7.73%	0.437%
349	17.381	17.358	17.396	VV	42044	821127	12.23%	0.691%
350	17.410	17.396	17.427	VV	42952	688033	10.25%	0.579%
351	17.440	17.427	17.457	VV	43899	698271	10.40%	0.587%
352	17.483	17.457	17.490	VV	57298	891157	13.27%	0.750%
353	17.497	17.490	17.502	VV	53918	383985	5.72%	0.323%
354	17.524	17.502	17.553	VV	68780	1656563	24.68%	1.394%
355	17.594	17.553	17.634	VV	84037	2700973	40.23%	2.272%
356	17.671	17.634	17.731	VV	72961	2958803	44.07%	2.489%
357	17.749	17.731	17.786	VV	50619	1363019	20.30%	1.147%
358	17.800	17.786	17.815	VV	46760	654080	9.74%	0.550%
359	17.841	17.815	17.876	VV	57818	1519459	22.63%	1.278%
360	17.906	17.876	17.931	VV	56156	1306101	19.45%	1.099%
361	17.935	17.931	17.940	VV	30207	169182	2.52%	0.142%
362	17.943	17.940	17.952	VV	30455	184199	2.74%	0.155%
363	17.956	17.952	17.958	VV	28238	111279	1.66%	0.094%
364	17.964	17.958	17.978	VV	30514	332243	4.95%	0.280%
365	17.995	17.978	18.016	VV	38840	733000	10.92%	0.617%
366	18.022	18.016	18.045	VV	27746	422040	6.29%	0.355%
367	18.052	18.045	18.057	VV	28137	182954	2.73%	0.154%
368	18.078	18.057	18.102	VV	42671	886273	13.20%	0.746%
369	18.109	18.102	18.119	VV	33154	281576	4.19%	0.237%
370	18.143	18.119	18.149	VV	43070	568925	8.47%	0.479%
371	18.171	18.149	18.194	VV	52366	933602	13.91%	0.785%
372	18.204	18.194	18.227	VV	25001	393754	5.87%	0.331%

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373	18.242	18.227	18.254	VV	22356	256285	3.82%	0.216%
374	18.315	18.254	18.333	VV	63865	1715968	25.56%	1.444%
375	18.339	18.333	18.343	VV	48188	269826	4.02%	0.227%
376	18.349	18.343	18.399	VV	51350	918255	13.68%	0.773%
377	18.407	18.399	18.427	VV	23588	304261	4.53%	0.256%
378	18.447	18.427	18.452	VV	23695	280033	4.17%	0.236%
379	18.460	18.452	18.485	VV	25403	385185	5.74%	0.324%
380	18.509	18.485	18.514	VV	44329	455255	6.78%	0.383%
381	18.520	18.514	18.546	VV	36949	617466	9.20%	0.519%
382	18.552	18.546	18.565	VV	33794	296203	4.41%	0.249%
383	18.570	18.565	18.580	VV	20958	142401	2.12%	0.120%
384	18.585	18.580	18.593	VV	14115	79739	1.19%	0.067%
385	18.612	18.593	18.616	PV	11208	119129	1.77%	0.100%
386	18.629	18.616	18.661	VV	20278	427338	6.37%	0.360%
387	18.684	18.661	18.723	VV	54554	1109455	16.53%	0.933%
388	18.728	18.723	18.738	VV	17092	104024	1.55%	0.088%
389	18.748	18.738	18.760	PV	13523	111605	1.66%	0.094%
390	18.764	18.760	18.768	VV	10256	29133	0.43%	0.025%
391	18.783	18.768	18.797	VV	14033	138025	2.06%	0.116%
392	18.814	18.797	18.832	VV	19012	218974	3.26%	0.184%
393	18.843	18.832	18.850	PBA	19258	297661	4.43%	0.250%

Sum of corrected areas: 118861722

Aromatic EPH 092425.M Thu Sep 25 16:44:34 2025

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

Report of Analysis

Client:	G Environmental		Date Collected:	09/24/25	
Project:	TGP		Date Received:	09/24/25	
Client Sample ID:	RB105		SDG No.:	Q3192	
Lab Sample ID:	Q3192-02		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	93.8	
Sample Wt/Vol:	30.06	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG016649.D	1	09/25/25	09/25/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	1.21		0.15	1.06	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	4.76		0.12	0.71	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	14.1		0.14	1.06	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	215	E	0.56	1.42	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	485	E	1.26	2.13	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	57.5		40 - 140	115%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	4.06		40 - 140	8%	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:	Q3192-02	Acq On:	25 Sep 2025 16:20
Client Sample ID:	RB105	Operator:	YP\AJ
Data file:	FG016649.D	Misc:	
Instrument:	FID_G	ALS Vial:	32
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.279	6.920	1966562	17.026	300	ug/ml
Aliphatic C12-C16	6.921	10.379	8100835	67.164	200	ug/ml
Aliphatic C16-C21	10.380	13.768	25716123	198.904	300	ug/ml
Aliphatic C21-C28	13.769	17.453	391376576	3040	400	ug/ml
Aliphatic C28-C40	17.454	22.488	694535334	6850	600	ug/ml
Aliphatic EPH	3.279	22.488	1121695430	10200		ug/ml
ortho-Terphenyl (SURR)	12.042	12.042	578921	4.06		ug/ml
1-chlorooctadecane (SURR)	13.514	13.514	6494613	57.54		ug/ml
Aliphatic C9-C28	3.279	17.453	427160096	3320	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016649.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 16:20
Operator : YP\AJ
Sample : Q3192-02
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Sep 25 18:17:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_G
ClientSampleId :
RB105

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/26/2025
Supervised By :mohammad ahmed 09/30/2025

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.514	5347619	47.378 ug/mlm
Spiked Amount 50.000		Recovery = 94.76%	
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016649.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 16:20
Operator : YP\AJ
Sample : Q3192-02
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RB105

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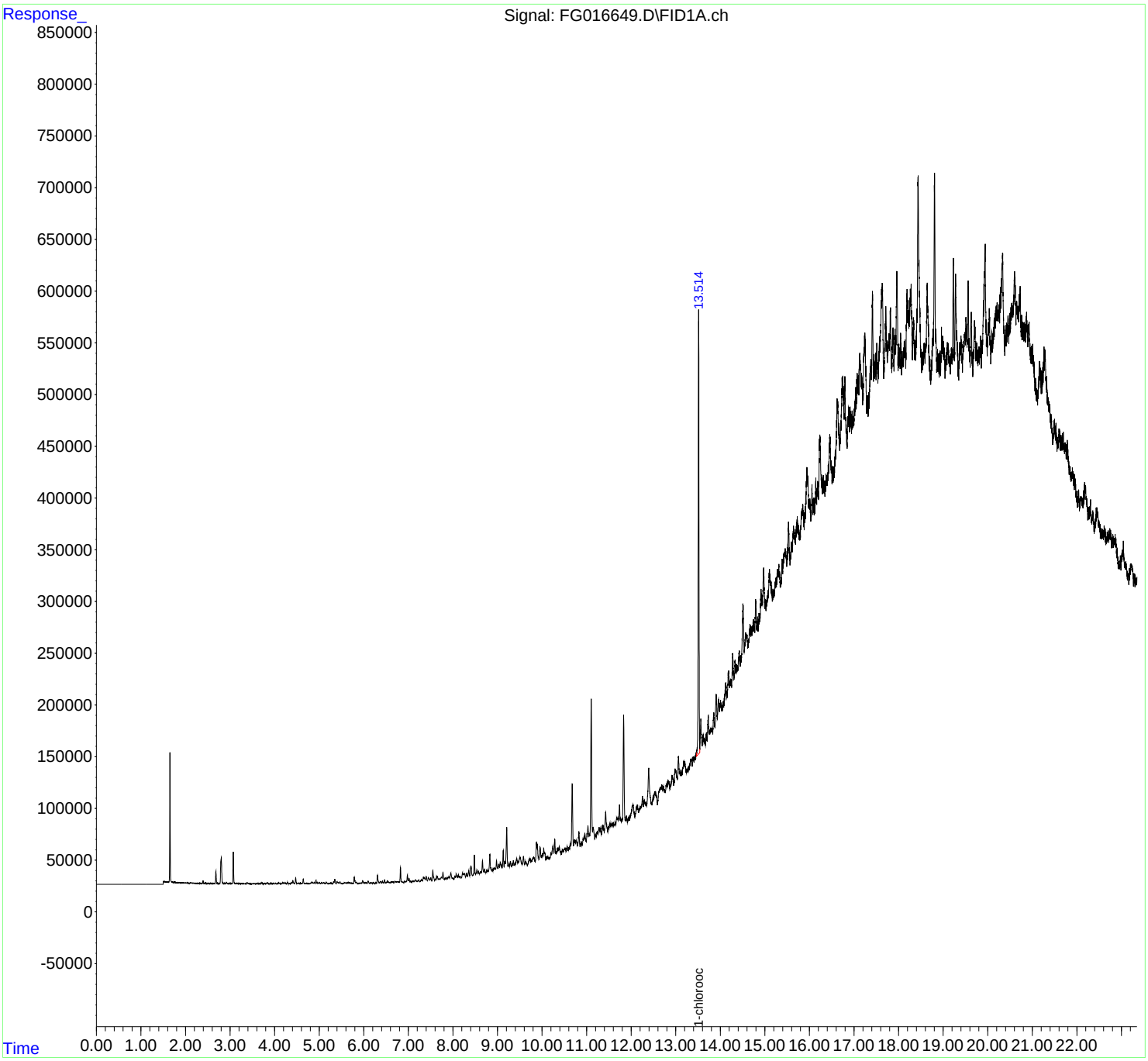
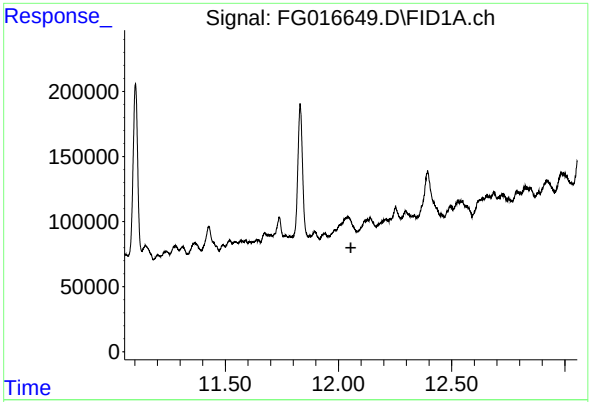
Integration File: autoint1.e
Quant Time: Sep 25 18:17:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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





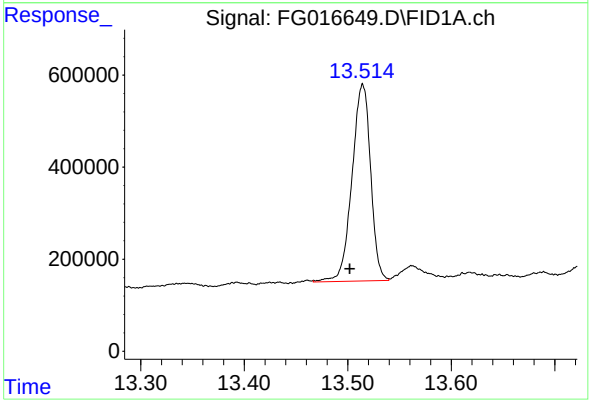
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.055 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
RB105

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/26/2025
Supervised By :mohammad ahmed 09/30/2025



#12 1-chlorooctadecane (SURR)

R.T.: 13.514 min
Delta R.T.: 0.012 min
Response: 5347619
Conc: 47.38 ug/ml m

Instrument :
FID_G
ClientSampleId :
RB105

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/26/2025
Supervised By :mohammad ahmed 09/30/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG
Data File : FG016649.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 16:20
Sample : Q3192-02
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.254	3.221	3.281	BV	54	1243	0.00%	0.000%
2	3.302	3.281	3.319	PV	177	2529	0.01%	0.000%
3	3.339	3.319	3.354	VV	157	2092	0.01%	0.000%
4	3.381	3.354	3.417	VV	1455	21213	0.08%	0.002%
5	3.430	3.417	3.474	VV	209	2905	0.01%	0.000%
6	3.498	3.474	3.513	VV	213	2527	0.01%	0.000%
7	3.528	3.513	3.540	VV	235	2861	0.01%	0.000%
8	3.555	3.540	3.577	VV	282	3431	0.01%	0.000%
9	3.625	3.577	3.652	VV	528	10317	0.04%	0.001%
10	3.668	3.652	3.680	VV	209	2114	0.01%	0.000%
11	3.698	3.680	3.746	VV	965	17457	0.06%	0.002%
12	3.775	3.746	3.807	VV	535	9839	0.04%	0.001%
13	3.832	3.807	3.881	VV	1484	26763	0.10%	0.002%
14	3.915	3.881	3.948	VV	843	16060	0.06%	0.001%
15	3.972	3.948	4.006	VV	668	13111	0.05%	0.001%
16	4.022	4.006	4.042	VV	551	6326	0.02%	0.001%
17	4.083	4.042	4.138	PV	982	25104	0.09%	0.002%
18	4.180	4.138	4.197	VV	1837	25940	0.10%	0.002%
19	4.213	4.197	4.234	VV	1669	19945	0.07%	0.002%
20	4.250	4.234	4.266	VV	705	9896	0.04%	0.001%
21	4.290	4.266	4.314	VV	1549	20127	0.07%	0.002%
22	4.329	4.314	4.340	VV	180	2411	0.01%	0.000%
23	4.385	4.340	4.394	VV	1554	24669	0.09%	0.002%
24	4.410	4.394	4.443	VV	3154	42964	0.16%	0.004%
25	4.473	4.443	4.511	VV	5827	76480	0.28%	0.007%
26	4.538	4.511	4.569	VV	869	21562	0.08%	0.002%
27	4.584	4.569	4.611	VV	723	11329	0.04%	0.001%
28	4.643	4.611	4.669	VV	4955	57646	0.21%	0.005%
29	4.679	4.669	4.696	VV	388	4724	0.02%	0.000%
30	4.716	4.696	4.742	VV	556	8675	0.03%	0.001%
31	4.770	4.742	4.787	VV	431	6489	0.02%	0.001%

Instrument :
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Manual IntegrationsAPPROVED

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rteres

32	4.830	4.787	4.847	VV	1583	32534	0.12%	0.003%
33	4.860	4.847	4.877	VV	1027	1547		
34	4.895	4.877	4.910	VV	1509	1958		
35	4.928	4.910	4.944	VV	3765	4004		
36	4.954	4.944	4.970	VV	1608	1715		
37	4.988	4.970	4.999	VV	1015	14291	0.05%	0.001%
38	5.008	4.999	5.026	VV	1012	11093	0.04%	0.001%
39	5.059	5.026	5.076	VV	1267	21637	0.08%	0.002%
40	5.106	5.076	5.128	VV	1272	26127	0.10%	0.002%
41	5.162	5.128	5.197	VV	1625	30447	0.11%	0.003%
42	5.225	5.197	5.238	VV	533	8012	0.03%	0.001%
43	5.261	5.238	5.299	VV	1118	17975	0.07%	0.002%
44	5.323	5.299	5.333	VV	2100	23074	0.08%	0.002%
45	5.351	5.333	5.379	VV	4546	62793	0.23%	0.006%
46	5.402	5.379	5.446	VV	2125	46508	0.17%	0.004%
47	5.467	5.446	5.504	VV	2020	32246	0.12%	0.003%
48	5.535	5.504	5.546	VV	537	7727	0.03%	0.001%
49	5.567	5.546	5.580	VV	1376	17769	0.07%	0.002%
50	5.591	5.580	5.614	VV	1070	17492	0.06%	0.002%
51	5.631	5.614	5.645	VV	1158	16197	0.06%	0.001%
52	5.662	5.645	5.679	VV	1371	18595	0.07%	0.002%
53	5.694	5.679	5.715	VV	986	16291	0.06%	0.001%
54	5.730	5.715	5.742	VV	835	11094	0.04%	0.001%
55	5.751	5.742	5.765	VV	622	7352	0.03%	0.001%
56	5.787	5.765	5.818	VV	6548	93661	0.34%	0.008%
57	5.832	5.818	5.852	VV	1718	23645	0.09%	0.002%
58	5.862	5.852	5.875	VV	735	8313	0.03%	0.001%
59	5.888	5.875	5.901	VV	676	8443	0.03%	0.001%
60	5.915	5.901	5.931	VV	720	10886	0.04%	0.001%
61	5.940	5.931	5.950	VV	721	7003	0.03%	0.001%
62	5.975	5.950	6.008	VV	3093	53489	0.20%	0.005%
63	6.036	6.008	6.071	VV	1137	30759	0.11%	0.003%
64	6.097	6.071	6.136	VV	2623	49795	0.18%	0.004%
65	6.157	6.136	6.190	VV	1334	23571	0.09%	0.002%
66	6.222	6.190	6.245	VV	1144	21528	0.08%	0.002%
67	6.270	6.245	6.288	PV	1250	15687	0.06%	0.001%
68	6.307	6.288	6.345	VV	8312	115230	0.42%	0.010%
69	6.377	6.345	6.400	VV	2150	46776	0.17%	0.004%
70	6.421	6.400	6.442	VV	2359	30945	0.11%	0.003%
71	6.467	6.442	6.495	VV	3365	42634	0.16%	0.004%
72	6.532	6.495	6.577	VV	2572	55118	0.20%	0.005%
73	6.619	6.577	6.634	VV	1310	25916	0.10%	0.002%
74	6.648	6.634	6.677	VV	1237	20942	0.08%	0.002%
75	6.699	6.677	6.725	VV	1791	30321	0.11%	0.003%
76	6.745	6.725	6.762	VV	1214	20548	0.08%	0.002%
77	6.775	6.762	6.800	VV	992	16909	0.06%	0.001%
78	6.824	6.800	6.894	VV	14614	168944	0.62%	0.015%
79	6.914	6.894	6.931	VV	1443	16486	0.06%	0.001%

Instrument :
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RB105

Manual IntegrationsAPPROVED

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rteres

80	6.978	6.931	7.001	VV	7118	101313	0.37%	0.009%
81	7.017	7.001	7.039	VV	3637	4424		
82	7.053	7.039	7.078	VV	1490	1407		
83	7.098	7.078	7.128	PV	1021	2045		
84	7.159	7.128	7.182	VV	2331	4049		
85	7.194	7.182	7.208	VV	1157	10627	0.04%	0.001%
86	7.232	7.208	7.255	VV	1337	22707	0.08%	0.002%
87	7.297	7.255	7.317	VV	1738	34112	0.13%	0.003%
88	7.338	7.317	7.350	VV	4620	57234	0.21%	0.005%
89	7.360	7.350	7.378	VV	4031	50201	0.18%	0.004%
90	7.401	7.378	7.427	VV	4847	77233	0.28%	0.007%
91	7.449	7.427	7.484	VV	3800	74793	0.27%	0.007%
92	7.505	7.484	7.526	VV	3477	46665	0.17%	0.004%
93	7.550	7.526	7.589	PV	10169	150924	0.55%	0.013%
94	7.605	7.589	7.617	VV	1994	21262	0.08%	0.002%
95	7.635	7.617	7.671	VV	4525	99265	0.36%	0.009%
96	7.693	7.671	7.711	VV	1785	35401	0.13%	0.003%
97	7.741	7.711	7.756	VV	3332	60542	0.22%	0.005%
98	7.777	7.756	7.804	VV	7640	106103	0.39%	0.009%
99	7.829	7.804	7.839	VV	1808	30166	0.11%	0.003%
100	7.845	7.839	7.855	VV	1628	13258	0.05%	0.001%
101	7.870	7.855	7.885	VV	2772	37065	0.14%	0.003%
102	7.911	7.885	7.926	VV	2952	58199	0.21%	0.005%
103	7.954	7.926	7.984	VV	6581	128277	0.47%	0.011%
104	7.996	7.984	8.023	VV	1542	24182	0.09%	0.002%
105	8.044	8.023	8.057	PV	3336	37228	0.14%	0.003%
106	8.074	8.057	8.103	VV	4736	80644	0.30%	0.007%
107	8.122	8.103	8.139	VV	3787	53443	0.20%	0.005%
108	8.157	8.139	8.191	VV	1984	40242	0.15%	0.004%
109	8.216	8.191	8.230	VV	4821	65669	0.24%	0.006%
110	8.242	8.230	8.254	VV	4023	48733	0.18%	0.004%
111	8.266	8.254	8.283	VV	3750	40894	0.15%	0.004%
112	8.309	8.283	8.329	VV	4036	54042	0.20%	0.005%
113	8.356	8.329	8.377	VV	5930	88049	0.32%	0.008%
114	8.404	8.377	8.439	VV	9952	170356	0.63%	0.015%
115	8.483	8.439	8.505	VV	19938	231591	0.85%	0.021%
116	8.539	8.505	8.559	VV	5150	94037	0.35%	0.008%
117	8.573	8.559	8.594	VV	3554	43975	0.16%	0.004%
118	8.664	8.594	8.693	VV	13157	240804	0.88%	0.021%
119	8.711	8.693	8.733	VV	4472	59499	0.22%	0.005%
120	8.760	8.733	8.776	VV	3376	51856	0.19%	0.005%
121	8.784	8.776	8.795	VV	2283	21973	0.08%	0.002%
122	8.830	8.795	8.874	VV	18096	308519	1.13%	0.027%
123	8.886	8.874	8.899	VV	2374	29038	0.11%	0.003%
124	8.919	8.899	8.929	VV	3691	48641	0.18%	0.004%
125	8.939	8.929	8.951	VV	3183	40992	0.15%	0.004%
126	8.980	8.951	9.011	VV	10521	181236	0.67%	0.016%

Instrument :
FID_G
ClientSampleId :
RB105

Manual IntegrationsAPPROVED

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Supervised By :mohammad ahmed 09/30/2025

rteres

127	9.027	9.011	9.040	VV	6798	86152	0.32%	0.008%
128	9.063	9.040	9.083	VV	7660	14745		
129	9.092	9.083	9.106	VV	4898	5729		
130	9.130	9.106	9.149	VV	19124	24205		
131	9.166	9.149	9.178	VV	8622	11424		
132	9.208	9.178	9.238	VV	41124	627231	2.30%	0.056%
133	9.259	9.238	9.274	VV	5077	82268	0.30%	0.007%
134	9.292	9.274	9.314	VV	7367	108305	0.40%	0.010%
135	9.357	9.314	9.378	VV	7393	162637	0.60%	0.014%
136	9.396	9.378	9.407	VV	4542	68048	0.25%	0.006%
137	9.434	9.407	9.461	VV	8480	198263	0.73%	0.018%
138	9.498	9.461	9.553	VV	9102	331494	1.22%	0.029%
139	9.583	9.553	9.610	VV	9488	170667	0.63%	0.015%
140	9.631	9.610	9.671	VV	4327	93875	0.34%	0.008%
141	9.712	9.671	9.725	PV	5382	101311	0.37%	0.009%
142	9.734	9.725	9.770	VV	5797	109755	0.40%	0.010%
143	9.811	9.770	9.843	VV	5831	190239	0.70%	0.017%
144	9.875	9.843	9.885	VV	19751	260742	0.96%	0.023%
145	9.894	9.885	9.930	VV	17966	260999	0.96%	0.023%
146	9.956	9.930	9.991	VV	13634	278269	1.02%	0.025%
147	10.010	9.991	10.022	VV	7011	103478	0.38%	0.009%
148	10.039	10.022	10.052	VV	10669	138928	0.51%	0.012%
149	10.060	10.052	10.087	VV	7533	89487	0.33%	0.008%
150	10.126	10.087	10.152	PV	2240	54636	0.20%	0.005%
151	10.201	10.152	10.213	VV	4879	62526	0.23%	0.006%
152	10.242	10.213	10.268	VV	10482	221301	0.81%	0.020%
153	10.285	10.268	10.322	VV	16667	244636	0.90%	0.022%
154	10.346	10.322	10.358	VV	6773	104283	0.38%	0.009%
155	10.388	10.358	10.433	VV	6922	181292	0.67%	0.016%
156	10.458	10.433	10.476	PV	3684	52425	0.19%	0.005%
157	10.498	10.476	10.508	VV	3911	54562	0.20%	0.005%
158	10.522	10.508	10.542	VV	4122	64259	0.24%	0.006%
159	10.562	10.542	10.581	VV	4984	65965	0.24%	0.006%
160	10.603	10.581	10.614	VV	3277	44147	0.16%	0.004%
161	10.637	10.614	10.647	VV	6636	94518	0.35%	0.008%
162	10.676	10.647	10.705	VV	64072	943403	3.46%	0.084%
163	10.728	10.705	10.745	VV	8288	156956	0.58%	0.014%
164	10.764	10.745	10.792	VV	7392	160807	0.59%	0.014%
165	10.826	10.792	10.853	VV	14808	236160	0.87%	0.021%
166	10.875	10.853	10.902	PV	2954	53119	0.20%	0.005%
167	10.925	10.902	10.935	VV	5662	76389	0.28%	0.007%
168	10.961	10.935	10.988	VV	10245	193485	0.71%	0.017%
169	11.030	10.988	11.070	VV	16312	399376	1.47%	0.035%
170	11.103	11.070	11.132	VV	137091	2019400	7.41%	0.179%
171	11.148	11.132	11.185	VV	12056	238792	0.88%	0.021%
172	11.201	11.185	11.215	VV	3846	43543	0.16%	0.004%
173	11.239	11.215	11.255	VV	5419	101501	0.37%	0.009%
174	11.279	11.255	11.298	VV	8871	170771	0.63%	0.015%

Instrument :
FID_G
ClientSampleId :
RB105

Manual IntegrationsAPPROVED

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Supervised By :mohammad ahmed 09/30/2025

rteres

175	11.311	11.298	11.333	VV	7522	108481	0.40%	0.010%
176	11.364	11.333	11.394	VV	9233	20688		
177	11.427	11.394	11.473	VV	20742	43137		
178	11.520	11.473	11.535	VV	7859	17713		
179	11.543	11.535	11.555	VV	5880	6835		
180	11.569	11.555	11.582	VV	6689	92145	0.34%	0.008%
181	11.590	11.582	11.614	VV	6405	94125	0.35%	0.008%
182	11.639	11.614	11.654	VV	5731	109988	0.40%	0.010%
183	11.675	11.654	11.708	VV	9819	241867	0.89%	0.021%
184	11.738	11.708	11.758	VV	20863	348837	1.28%	0.031%
185	11.767	11.758	11.791	VV	6030	103072	0.38%	0.009%
186	11.831	11.791	11.877	VV	104640	1609896	5.91%	0.143%
187	11.895	11.877	11.916	VV	6143	83266	0.31%	0.007%
188	11.939	11.916	11.958	PV	3423	51551	0.19%	0.005%
189	12.041	11.958	12.083	VV	13789	542920	1.99%	0.048%
190	12.140	12.083	12.165	VV	10488	315106	1.16%	0.028%
191	12.210	12.165	12.219	VV	7552	183376	0.67%	0.016%
192	12.252	12.219	12.276	VV	15966	333371	1.22%	0.030%
193	12.297	12.276	12.325	VV	11527	254418	0.93%	0.023%
194	12.335	12.325	12.344	VV	7431	77644	0.29%	0.007%
195	12.394	12.344	12.468	VV	39882	1137311	4.18%	0.101%
196	12.495	12.468	12.508	VV	10046	174034	0.64%	0.015%
197	12.528	12.508	12.591	VV	13697	464694	1.71%	0.041%
198	12.657	12.591	12.672	VV	14456	496971	1.82%	0.044%
199	12.687	12.672	12.701	VV	15966	238706	0.88%	0.021%
200	12.725	12.701	12.767	VV	13603	418606	1.54%	0.037%
201	12.789	12.767	12.807	VV	14549	277826	1.02%	0.025%
202	12.824	12.807	12.868	VV	17535	501521	1.84%	0.044%
203	12.922	12.868	12.955	VV	18924	693292	2.55%	0.061%
204	12.985	12.955	13.036	VV	23703	851930	3.13%	0.075%
205	13.061	13.036	13.102	VV	33726	853641	3.13%	0.076%
206	13.119	13.102	13.145	VV	18954	423196	1.55%	0.037%
207	13.179	13.145	13.198	VV	26468	701665	2.58%	0.062%
208	13.207	13.198	13.248	VV	24177	550581	2.02%	0.049%
209	13.285	13.248	13.296	VV	17985	465106	1.71%	0.041%
210	13.344	13.296	13.370	VV	24022	904512	3.32%	0.080%
211	13.393	13.370	13.411	VV	24547	524357	1.93%	0.046%
212	13.514	13.411	13.541	VV	452013	7236323	26.57%	0.641%
213	13.562	13.541	13.595	VV	56703	1352811	4.97%	0.120%
214	13.618	13.595	13.667	VV	41257	1509035	5.54%	0.134%
215	13.688	13.667	13.705	VV	39728	803388	2.95%	0.071%
216	13.729	13.705	13.765	VV	55733	1588254	5.83%	0.141%
217	13.805	13.765	13.830	VV	41360	1568562	5.76%	0.139%
218	13.853	13.830	13.875	VV	55770	1268910	4.66%	0.112%
219	13.908	13.875	13.933	VV	70541	1969913	7.23%	0.174%
220	13.958	13.933	13.981	VV	65240	1698739	6.24%	0.150%
221	14.005	13.981	14.038	VV	62298	1992650	7.32%	0.176%

Instrument :
FID_G
ClientSampleId :
RB105

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/26/2025
Supervised By :mohammad ahmed 09/30/2025

rteres

222	14.120	14.038	14.155	VV	77887	4491883	16.49%	0.398%
223	14.184	14.155	14.209	VV	86743	251968		
224	14.229	14.209	14.255	VV	76191	203960		
225	14.277	14.255	14.306	VV	101436	268866		
226	14.332	14.306	14.346	VV	93263	203207		
227	14.358	14.346	14.371	VV	87407	1272624	4.67%	0.113%
228	14.423	14.371	14.445	VV	99732	4033635	14.81%	0.357%
229	14.508	14.445	14.538	VV	141822	6044334	22.19%	0.535%
230	14.579	14.538	14.621	VV	111347	5340575	19.61%	0.473%
231	14.666	14.621	14.686	VV	119532	4301317	15.79%	0.381%
232	14.701	14.686	14.712	VV	114832	1769301	6.50%	0.157%
233	14.744	14.712	14.775	VV	121782	4338098	15.93%	0.384%
234	14.794	14.775	14.818	VV	138914	3294290	12.09%	0.292%
235	14.836	14.818	14.848	VV	120805	2021163	7.42%	0.179%
236	14.914	14.848	14.927	VV	145959	5981592	21.96%	0.530%
237	14.937	14.927	14.948	VV	140173	1719122	6.31%	0.152%
238	14.972	14.948	15.026	VV	164113	6699111	24.59%	0.593%
239	15.103	15.026	15.169	VV	161512	12175708	44.70%	1.078%
240	15.182	15.169	15.211	VV	138802	3419290	12.55%	0.303%
241	15.246	15.211	15.263	VV	148318	4525736	16.62%	0.401%
242	15.289	15.263	15.298	VV	154866	3150420	11.57%	0.279%
243	15.313	15.298	15.325	VV	160331	2519341	9.25%	0.223%
244	15.331	15.325	15.348	VV	152574	1995684	7.33%	0.177%
245	15.388	15.348	15.400	VV	162772	4663142	17.12%	0.413%
246	15.457	15.400	15.491	VV	171477	8987453	33.00%	0.796%
247	15.531	15.491	15.565	VV	194653	7629700	28.01%	0.676%
248	15.640	15.565	15.677	VV	187288	11728881	43.06%	1.039%
249	15.727	15.677	15.751	VV	192794	8196481	30.09%	0.726%
250	15.754	15.751	15.794	VV	184962	4635109	17.02%	0.410%
251	15.849	15.794	15.881	VV	202877	10072784	36.98%	0.892%
252	15.944	15.881	16.034	VV	235549	19122676	70.20%	1.693%
253	16.057	16.034	16.078	VV	215657	5245245	19.26%	0.464%
254	16.095	16.078	16.122	VV	201266	5175233	19.00%	0.458%
255	16.143	16.122	16.165	VV	219121	5341228	19.61%	0.473%
256	16.183	16.165	16.205	VV	216445	5030615	18.47%	0.445%
257	16.234	16.205	16.293	VV	259285	12232230	44.91%	1.083%
258	16.312	16.293	16.329	VV	219002	4552874	16.71%	0.403%
259	16.376	16.329	16.401	VV	216782	9209489	33.81%	0.815%
260	16.457	16.401	16.508	VV	255659	14766721	54.21%	1.307%
261	16.523	16.508	16.531	VV	222024	3025073	11.11%	0.268%
262	16.622	16.531	16.681	VV	283103	22186119	81.45%	1.964%
263	16.748	16.681	16.776	VV	303031	15759290	57.86%	1.395%
264	16.797	16.776	16.845	VV	304900	10939972	40.16%	0.969%
265	16.877	16.845	16.898	VV	270369	8293817	30.45%	0.734%
266	16.916	16.898	16.945	VV	268467	7285049	26.75%	0.645%
267	16.958	16.945	16.971	VV	264157	4067207	14.93%	0.360%
268	16.984	16.971	16.998	VV	258934	4100315	15.05%	0.363%
269	17.040	16.998	17.051	VV	286053	8638349	31.71%	0.765%

Instrument :
FID_G
ClientSampleId :
RB105

rteres

270	17.068	17.051	17.088	VV	297684	6429060	23.60%	0.569%
271	17.099	17.088	17.107	VV	293426	336568		
272	17.131	17.107	17.159	VV	315077	955350		
273	17.167	17.159	17.205	VV	291395	775393		
274	17.243	17.205	17.295	VV	330938	1612625		
275	17.300	17.295	17.315	VV	268704	3321354	12.19%	0.294%
276	17.375	17.315	17.390	VV	303274	12573105	46.16%	1.113%
277	17.414	17.390	17.438	VV	366192	9455394	34.71%	0.837%
278	17.449	17.438	17.467	VV	302107	5041205	18.51%	0.446%
279	17.486	17.467	17.495	VV	307047	5083202	18.66%	0.450%
280	17.513	17.495	17.536	VV	313519	7280939	26.73%	0.645%
281	17.636	17.536	17.671	VV	369207	26224514	96.28%	2.322%
282	17.715	17.671	17.748	VV	343243	14429219	52.97%	1.278%
283	17.785	17.748	17.796	VV	316491	8916747	32.74%	0.790%
284	17.816	17.796	17.847	VV	343235	9757943	35.82%	0.864%
285	17.876	17.847	17.897	VV	320427	9023033	33.13%	0.799%
286	17.917	17.897	17.935	VV	318332	6938676	25.47%	0.614%
287	17.963	17.935	17.995	VV	369590	11984347	44.00%	1.061%
288	18.010	17.995	18.031	VV	298966	6257419	22.97%	0.554%
289	18.046	18.031	18.078	VV	312702	8305015	30.49%	0.735%
290	18.082	18.078	18.105	VV	289679	4568323	16.77%	0.404%
291	18.144	18.105	18.161	VV	306606	10001109	36.72%	0.886%
292	18.190	18.161	18.205	VV	347836	8463187	31.07%	0.749%
293	18.216	18.205	18.231	VV	339616	5261366	19.32%	0.466%
294	18.280	18.231	18.311	VV	351519	15736476	57.77%	1.393%
295	18.334	18.311	18.379	VV	317094	12007079	44.08%	1.063%
296	18.437	18.379	18.515	VV	453223	27238668	100.00%	2.412%
297	18.528	18.515	18.539	VV	281860	3999120	14.68%	0.354%
298	18.575	18.539	18.592	VV	290086	9008061	33.07%	0.798%
299	18.643	18.592	18.713	VV	346572	21287275	78.15%	1.885%
300	18.807	18.713	18.856	VV	452525	26178261	96.11%	2.318%
301	18.873	18.856	18.883	VV	275019	4239677	15.56%	0.375%
302	18.892	18.883	18.911	VV	268749	4456230	16.36%	0.395%
303	18.919	18.911	18.942	VV	270200	4870257	17.88%	0.431%
304	18.964	18.942	18.980	VV	283692	6304052	23.14%	0.558%
305	18.990	18.980	19.011	VV	284682	5127929	18.83%	0.454%
306	19.017	19.011	19.051	VV	272668	6303006	23.14%	0.558%
307	19.111	19.051	19.159	VV	276511	17164208	63.01%	1.520%
308	19.229	19.159	19.256	VV	353262	16353512	60.04%	1.448%
309	19.279	19.256	19.348	VV	335963	15509711	56.94%	1.373%
310	19.409	19.348	19.434	VV	270867	13493665	49.54%	1.195%
311	19.479	19.434	19.498	VV	275352	10197394	37.44%	0.903%
312	19.512	19.498	19.545	VV	291197	7786357	28.59%	0.689%
313	19.561	19.545	19.604	VV	322606	9897285	36.34%	0.876%
314	19.630	19.604	19.664	VV	293618	9564213	35.11%	0.847%
315	19.705	19.664	19.792	VV	283439	19607911	71.99%	1.736%
316	19.805	19.792	19.832	VV	252013	5924813	21.75%	0.525%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/26/2025
Supervised By :mohammad ahmed 09/30/2025

Instrument :
FID_G
ClientSampleId :
RB105

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/26/2025
Supervised By :mohammad ahmed 09/30/2025

rteres

317	19.843	19.832	19.858	VV	263558	3886950	14.27%	0.344%
318	19.941	19.858	19.988	VV	343347	2214897		
319	20.035	19.988	20.081	VV	283512	1458596		
320	20.094	20.081	20.111	VV	262561	456213		
321	20.122	20.111	20.127	VV	258377	242657		
322	20.198	20.127	20.205	VV	280914	12641565	46.41%	1.119%
323	20.214	20.205	20.238	VV	285085	5527476	20.29%	0.489%
324	20.252	20.238	20.268	VV	282589	4968300	18.24%	0.440%
325	20.334	20.268	20.385	VV	331422	20173324	74.06%	1.786%
326	20.400	20.385	20.439	VV	259260	8157736	29.95%	0.722%
327	20.455	20.439	20.474	VV	265778	5440985	19.98%	0.482%
328	20.492	20.474	20.504	VV	266649	4566366	16.76%	0.404%
329	20.523	20.504	20.531	VV	273901	4409573	16.19%	0.390%
330	20.544	20.531	20.558	VV	277383	4355816	15.99%	0.386%
331	20.598	20.558	20.649	VV	300206	15303330	56.18%	1.355%
332	20.654	20.649	20.682	VV	274019	5381295	19.76%	0.476%
333	20.727	20.682	20.771	VV	289875	14221110	52.21%	1.259%
334	20.781	20.771	20.789	VV	253498	2638571	9.69%	0.234%
335	20.796	20.789	20.811	VV	254589	3246439	11.92%	0.287%
336	20.822	20.811	20.847	VV	248317	5259875	19.31%	0.466%
337	20.871	20.847	20.900	VV	259716	7814827	28.69%	0.692%
338	20.918	20.900	20.965	VV	248882	9103270	33.42%	0.806%
339	20.971	20.965	20.994	VV	223810	3825486	14.04%	0.339%
340	21.007	20.994	21.110	VV	224153	13665465	50.17%	1.210%
341	21.161	21.110	21.221	VV	205187	12484715	45.83%	1.105%
342	21.263	21.221	21.458	VV	219165	24352669	89.40%	2.156%
343	21.498	21.458	21.563	VV	140531	8116001	29.80%	0.719%
344	21.600	21.563	21.632	VV	125303	4901294	17.99%	0.434%
345	21.648	21.632	21.671	VV	120422	2758429	10.13%	0.244%
346	21.682	21.671	21.724	VV	122545	3603067	13.23%	0.319%
347	21.736	21.724	21.759	VV	112375	2263876	8.31%	0.200%
348	21.782	21.759	21.835	VV	110727	4459949	16.37%	0.395%
349	21.837	21.835	21.868	VV	87001	1647825	6.05%	0.146%
350	21.880	21.868	21.895	VV	81909	1228098	4.51%	0.109%
351	21.901	21.895	21.957	VV	82171	2797949	10.27%	0.248%
352	21.964	21.957	22.021	VV	73080	2196182	8.06%	0.194%
353	22.041	22.021	22.067	VV	58239	1360598	5.00%	0.120%
354	22.095	22.067	22.147	VV	51794	2297073	8.43%	0.203%
355	22.177	22.147	22.258	VV	61571	3162801	11.61%	0.280%
356	22.305	22.258	22.336	VV	41991	1478166	5.43%	0.131%
357	22.358	22.336	22.396	VV	29507	806191	2.96%	0.071%
358	22.434	22.396	22.538	VV	31457	1558846	5.72%	0.138%
359	22.544	22.538	22.560	VV	8944	55671	0.20%	0.005%
360	22.575	22.560	22.601	PBA	4486	412817	1.52%	0.037%

Sum of corrected areas: 1129401474

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

Report of Analysis

Client:	G Environmental		Date Collected:	09/24/25	
Project:	TGP		Date Received:	09/24/25	
Client Sample ID:	RB105DL		SDG No.:	Q3192	
Lab Sample ID:	Q3192-02DL		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	93.8	
Sample Wt/Vol:	30.06	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG016652.D	20	09/25/25	09/25/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	2.98	U	2.98	21.3	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	2.34	U	2.34	14.2	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	14.4	J	2.77	21.3	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	216		11.3	28.4	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	536		25.1	42.6	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	2.14		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:	Q3192-02DL	Acq On:	25 Sep 2025 17:52
Client Sample ID:	RB105DL	Operator:	YP\AJ
Data file:	FG016652.D	Misc:	
Instrument:	FID_G	ALS Vial:	35
Dilution Factor:	20	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.279	6.920	181873	1.575	300	ug/ml
Aliphatic C12-C16	6.921	10.379	475691	3.944	200	ug/ml
Aliphatic C16-C21	10.380	13.768	1313380	10.158	300	ug/ml
Aliphatic C21-C28	13.769	17.453	19656457	152.565	400	ug/ml
Aliphatic C28-C40	17.454	22.488	38382324	378.453	600	ug/ml
Aliphatic EPH	3.279	22.488	60009725	546.695		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.509	13.509	241549	2.14		ug/ml
Aliphatic C9-C28	3.279	17.453	21627401	168.242	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016652.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 17:52
Operator : YP\AJ
Sample : Q3192-02DL 20X
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RB105DL

Integration File: autoint1.e
Quant Time: Sep 25 18:14:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 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...	13.509	241549	2.140 ug/ml
Spiked Amount 50.000		Recovery =	4.28%
Target Compounds			

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

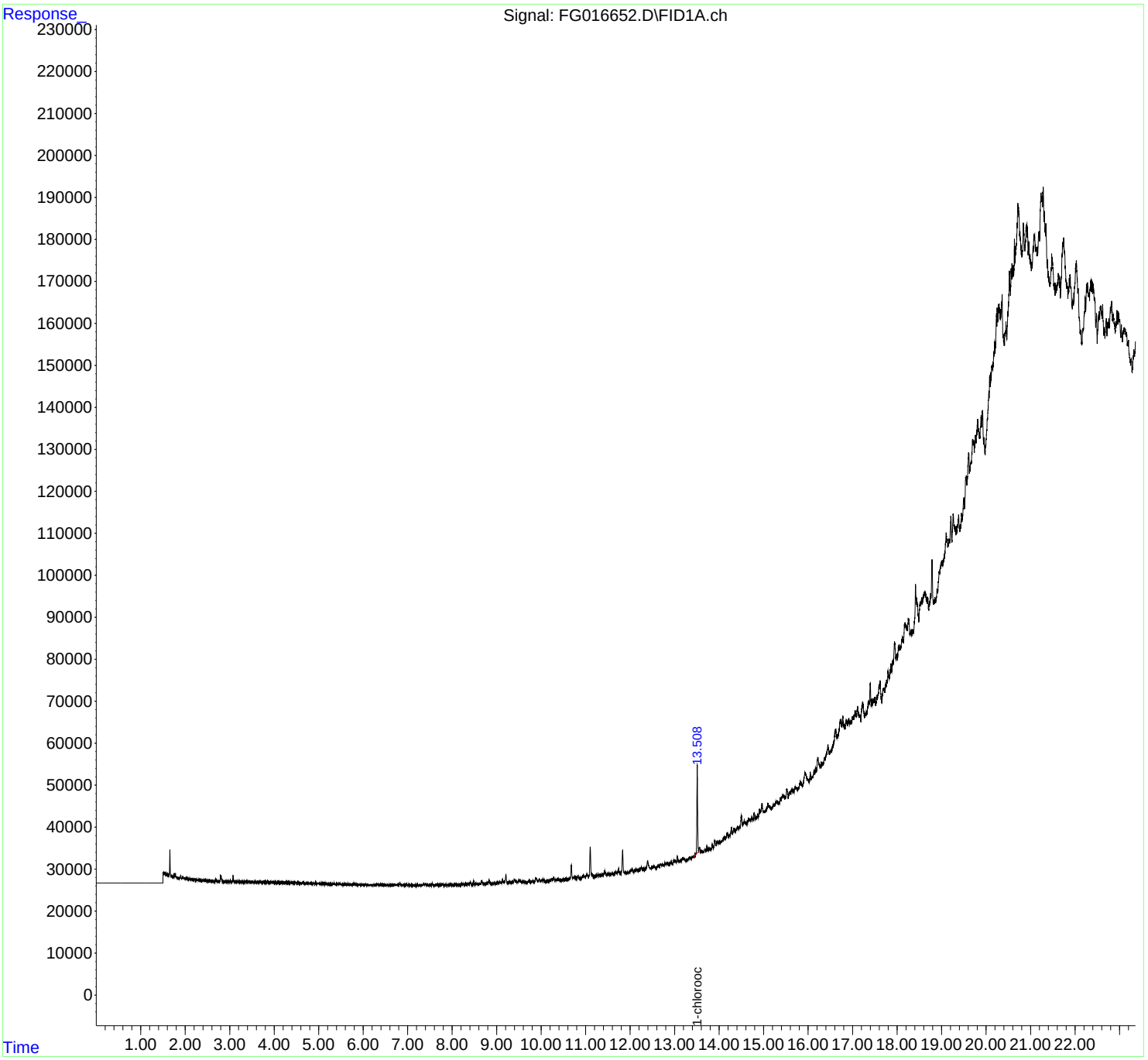
Quantitation Report (QT Reviewed)

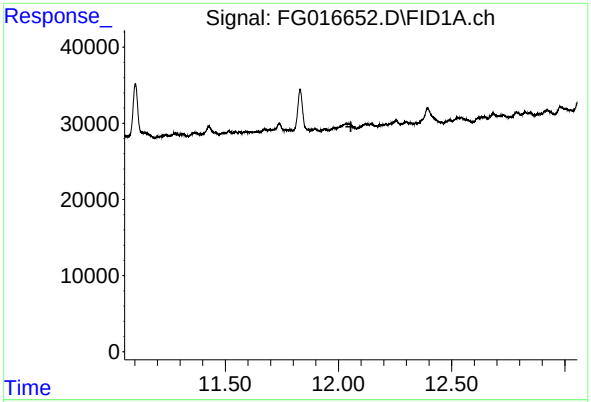
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016652.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 17:52
Operator : YP\AJ
Sample : Q3192-02DL 20X
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RB105DL

Integration File: autoint1.e
Quant Time: Sep 25 18:14:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

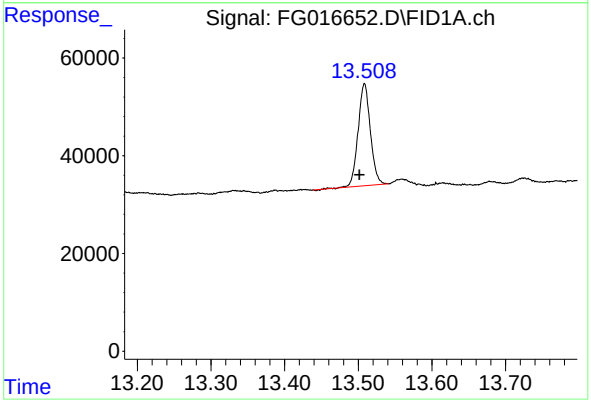




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.055 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
RB105DL



#12 1-chlorooctadecane (SURR)

R.T.: 13.509 min
Delta R.T.: 0.007 min
Response: 241549
Conc: 2.14 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016652.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 17:52
Sample : Q3192-02DL2 20X
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.289	3.278	3.355	PV	69	1542	0.04%	0.003%
2	3.503	3.482	3.545	VV	95	2137	0.06%	0.004%
3	3.558	3.545	3.617	VV	108	1861	0.05%	0.003%
4	3.628	3.617	3.655	PV	108	1754	0.05%	0.003%
5	3.663	3.655	3.678	VV	125	1049	0.03%	0.002%
6	3.697	3.678	3.729	VV	146	2505	0.07%	0.004%
7	3.745	3.729	3.772	VV	91	1892	0.05%	0.003%
8	3.780	3.772	3.791	VV	87	892	0.02%	0.001%
9	3.805	3.791	3.852	VV	92	3907	0.10%	0.006%
10	3.858	3.852	3.902	VV	199	3310	0.09%	0.005%
11	3.916	3.902	3.962	VV	122	3103	0.08%	0.005%
12	3.968	3.962	4.024	VV	125	2648	0.07%	0.004%
13	4.031	4.024	4.064	VV	80	1219	0.03%	0.002%
14	4.092	4.064	4.144	VV	156	3913	0.10%	0.006%
15	4.292	4.277	4.312	VV	147	2038	0.05%	0.003%
16	4.346	4.312	4.370	VV	153	3555	0.09%	0.006%
17	4.381	4.370	4.396	VV	182	2226	0.06%	0.004%
18	4.476	4.465	4.512	VV	299	4864	0.13%	0.008%
19	4.531	4.512	4.558	VV	142	3056	0.08%	0.005%
20	4.564	4.558	4.615	VV	161	4041	0.11%	0.007%
21	4.724	4.698	4.737	VV	132	2426	0.06%	0.004%
22	4.764	4.737	4.793	VV	136	3450	0.09%	0.006%
23	4.825	4.793	4.848	VV	184	3531	0.09%	0.006%
24	4.856	4.848	4.882	VV	174	2729	0.07%	0.005%
25	4.893	4.882	4.909	VV	157	1939	0.05%	0.003%
26	4.954	4.945	4.978	VV	174	2764	0.07%	0.005%
27	4.995	4.978	5.041	VV	217	5121	0.14%	0.009%
28	5.063	5.041	5.085	VV	157	3609	0.10%	0.006%
29	5.110	5.085	5.148	VV	212	4434	0.12%	0.007%
30	5.165	5.148	5.199	VV	167	3074	0.08%	0.005%
31	5.221	5.199	5.258	PV	103	2375	0.06%	0.004%

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32	5.264	5.258	5.308	VV	110	2181	0.06%	0.004%
33	5.326	5.308	5.337	VV	211	2399	0.06%	0.004%
34	5.407	5.385	5.454	VV	166	4815	0.13%	0.008%
35	5.467	5.454	5.508	VV	200	3284	0.09%	0.005%
36	5.517	5.508	5.528	VV	33	485	0.01%	0.001%
37	5.541	5.528	5.624	PV	105	4137	0.11%	0.007%
38	5.635	5.624	5.651	PV	101	948	0.03%	0.002%
39	5.665	5.651	5.771	VV	128	5464	0.15%	0.009%
40	5.834	5.828	5.878	VV	142	2572	0.07%	0.004%
41	5.894	5.878	5.936	VV	124	2099	0.06%	0.003%
42	5.945	5.936	5.958	VV	90	761	0.02%	0.001%
43	5.976	5.958	6.024	VV	189	3862	0.10%	0.006%
44	6.039	6.024	6.052	VV	73	1010	0.03%	0.002%
45	6.058	6.052	6.067	VV	65	558	0.01%	0.001%
46	6.101	6.067	6.137	VV	176	3833	0.10%	0.006%
47	6.167	6.137	6.249	VV	105	3970	0.11%	0.007%
48	6.272	6.249	6.291	PV	117	1539	0.04%	0.003%
49	6.311	6.291	6.351	VV	340	7085	0.19%	0.012%
50	6.371	6.351	6.401	VV	175	3762	0.10%	0.006%
51	6.422	6.401	6.441	VV	197	2634	0.07%	0.004%
52	6.469	6.441	6.492	VV	264	3955	0.11%	0.007%
53	6.533	6.492	6.572	VV	190	4755	0.13%	0.008%
54	6.584	6.572	6.598	VV	77	959	0.03%	0.002%
55	6.621	6.598	6.641	VV	127	2211	0.06%	0.004%
56	6.653	6.641	6.666	VV	108	1131	0.03%	0.002%
57	6.703	6.666	6.745	VV	186	5345	0.14%	0.009%
58	6.755	6.745	6.765	VV	142	1292	0.03%	0.002%
59	6.776	6.765	6.801	VV	195	2731	0.07%	0.005%
60	6.826	6.801	6.854	VV	810	10169	0.27%	0.017%
61	6.865	6.854	6.896	VV	89	1962	0.05%	0.003%
62	6.912	6.896	6.957	VV	182	3001	0.08%	0.005%
63	6.980	6.957	7.004	VV	427	5204	0.14%	0.009%
64	7.019	7.004	7.037	VV	205	2299	0.06%	0.004%
65	7.054	7.037	7.145	VV	91	2070	0.06%	0.003%
66	7.164	7.145	7.188	VV	141	1690	0.05%	0.003%
67	7.199	7.188	7.209	PV	88	600	0.02%	0.001%
68	7.234	7.209	7.274	VV	102	1864	0.05%	0.003%
69	7.303	7.274	7.322	PV	112	2131	0.06%	0.004%
70	7.341	7.322	7.351	VV	324	3736	0.10%	0.006%
71	7.362	7.351	7.376	VV	296	3787	0.10%	0.006%
72	7.402	7.376	7.430	VV	384	7345	0.20%	0.012%
73	7.452	7.430	7.487	VV	222	4986	0.13%	0.008%
74	7.505	7.487	7.535	VV	238	2754	0.07%	0.005%
75	7.551	7.535	7.595	PV	519	7180	0.19%	0.012%
76	7.654	7.595	7.688	PV	225	6365	0.17%	0.011%
77	7.739	7.688	7.759	VV	232	6169	0.16%	0.010%
78	7.779	7.759	7.815	VV	395	6159	0.16%	0.010%
79	7.841	7.815	7.855	VV	108	1670	0.04%	0.003%

80	7.875	7.855	7.886	VV	146	1866	0.05%	0.003%
81	7.892	7.886	7.905	VV	86	1080	0.03%	0.002%
82	7.912	7.905	7.928	VV	123	1373	0.04%	0.002%
83	7.955	7.928	7.985	VV	285	5236	0.14%	0.009%
84	8.003	7.985	8.025	VV	93	1255	0.03%	0.002%
85	8.046	8.025	8.058	PV	226	2346	0.06%	0.004%
86	8.074	8.058	8.112	VV	354	6547	0.17%	0.011%
87	8.121	8.112	8.145	VV	213	2640	0.07%	0.004%
88	8.154	8.145	8.195	VV	90	1661	0.04%	0.003%
89	8.218	8.195	8.256	VV	326	7156	0.19%	0.012%
90	8.267	8.256	8.285	VV	220	2544	0.07%	0.004%
91	8.310	8.285	8.333	VV	271	3482	0.09%	0.006%
92	8.358	8.333	8.378	VV	332	4440	0.12%	0.007%
93	8.406	8.378	8.459	VV	582	11705	0.31%	0.019%
94	8.484	8.459	8.512	PV	1056	11913	0.32%	0.020%
95	8.541	8.512	8.563	VV	295	5568	0.15%	0.009%
96	8.577	8.563	8.601	VV	207	2966	0.08%	0.005%
97	8.613	8.601	8.617	VV	163	1186	0.03%	0.002%
98	8.665	8.617	8.702	VV	867	21439	0.57%	0.036%
99	8.713	8.702	8.741	VV	335	4336	0.12%	0.007%
100	8.760	8.741	8.772	VV	214	3329	0.09%	0.006%
101	8.831	8.772	8.878	VV	969	21991	0.59%	0.037%
102	8.887	8.878	8.905	VV	130	1661	0.04%	0.003%
103	8.921	8.905	8.931	VV	226	2167	0.06%	0.004%
104	8.942	8.931	8.975	VV	226	3291	0.09%	0.005%
105	9.029	8.975	9.047	PV	412	9187	0.25%	0.015%
106	9.066	9.047	9.086	VV	407	7567	0.20%	0.013%
107	9.098	9.086	9.112	VV	283	3240	0.09%	0.005%
108	9.131	9.112	9.151	VV	1052	14218	0.38%	0.024%
109	9.171	9.151	9.185	VV	520	8297	0.22%	0.014%
110	9.209	9.185	9.245	VV	2124	33550	0.90%	0.056%
111	9.261	9.245	9.274	VV	294	3610	0.10%	0.006%
112	9.291	9.274	9.315	VV	374	6053	0.16%	0.010%
113	9.357	9.315	9.374	VV	360	7708	0.21%	0.013%
114	9.396	9.374	9.420	VV	932	16234	0.43%	0.027%
115	9.433	9.420	9.458	VV	501	9495	0.25%	0.016%
116	9.513	9.458	9.559	VV	583	23059	0.62%	0.038%
117	9.585	9.559	9.614	VV	490	8345	0.22%	0.014%
118	9.633	9.614	9.675	VV	189	3692	0.10%	0.006%
119	9.737	9.675	9.764	PV	300	10216	0.27%	0.017%
120	9.815	9.764	9.844	VV	337	10878	0.29%	0.018%
121	9.876	9.844	9.930	VV	1021	28344	0.76%	0.047%
122	9.959	9.930	9.988	VV	750	15104	0.40%	0.025%
123	10.010	9.988	10.022	VV	394	6325	0.17%	0.011%
124	10.040	10.022	10.098	VV	634	13480	0.36%	0.022%
125	10.140	10.098	10.183	VV	192	5050	0.13%	0.008%
126	10.201	10.183	10.217	PV	302	4006	0.11%	0.007%

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127	10.242	10.217	10.268	VV	566	12433	0.33%	0.021%
128	10.286	10.268	10.325	VV	961	16413	0.44%	0.027%
129	10.388	10.325	10.428	VV	389	16275	0.43%	0.027%
130	10.459	10.428	10.478	PV	191	2519	0.07%	0.004%
131	10.499	10.478	10.511	VV	238	3344	0.09%	0.006%
132	10.525	10.511	10.542	VV	249	2789	0.07%	0.005%
133	10.564	10.542	10.587	VV	245	3369	0.09%	0.006%
134	10.636	10.587	10.650	PV	342	5900	0.16%	0.010%
135	10.678	10.650	10.706	VV	3501	48881	1.30%	0.081%
136	10.728	10.706	10.755	VV	557	11840	0.32%	0.020%
137	10.763	10.755	10.793	VV	424	7368	0.20%	0.012%
138	10.828	10.793	10.852	VV	784	12279	0.33%	0.020%
139	10.875	10.852	10.891	PV	145	1711	0.05%	0.003%
140	10.934	10.891	10.944	VV	424	6351	0.17%	0.011%
141	10.961	10.944	10.988	VV	556	9689	0.26%	0.016%
142	11.030	10.988	11.069	VV	1040	23904	0.64%	0.040%
143	11.103	11.069	11.187	VV	7194	126595	3.38%	0.210%
144	11.238	11.187	11.253	PV	354	8220	0.22%	0.014%
145	11.278	11.253	11.296	VV	510	9448	0.25%	0.016%
146	11.310	11.296	11.336	VV	443	6426	0.17%	0.011%
147	11.368	11.336	11.395	VV	458	10995	0.29%	0.018%
148	11.427	11.395	11.473	VV	1267	27236	0.73%	0.045%
149	11.490	11.473	11.498	VV	336	3555	0.09%	0.006%
150	11.515	11.498	11.532	VV	535	7759	0.21%	0.013%
151	11.543	11.532	11.578	VV	380	8435	0.23%	0.014%
152	11.592	11.578	11.618	VV	376	6638	0.18%	0.011%
153	11.673	11.618	11.688	VV	557	14819	0.40%	0.025%
154	11.738	11.688	11.772	VV	1291	30769	0.82%	0.051%
155	11.786	11.772	11.797	VV	341	4664	0.12%	0.008%
156	11.831	11.797	11.875	VV	5645	87156	2.33%	0.145%
157	11.896	11.875	11.921	VV	401	5814	0.16%	0.010%
158	11.939	11.921	11.958	PV	242	3262	0.09%	0.005%
159	12.035	11.958	12.085	VV	802	32561	0.87%	0.054%
160	12.119	12.085	12.138	VV	605	13527	0.36%	0.022%
161	12.146	12.138	12.170	VV	599	8187	0.22%	0.014%
162	12.254	12.170	12.277	VV	866	29296	0.78%	0.049%
163	12.299	12.277	12.328	VV	566	13175	0.35%	0.022%
164	12.394	12.328	12.465	VV	2254	65622	1.75%	0.109%
165	12.490	12.465	12.505	VV	483	8207	0.22%	0.014%
166	12.525	12.505	12.535	VV	782	10786	0.29%	0.018%
167	12.543	12.535	12.595	VV	736	13862	0.37%	0.023%
168	12.644	12.595	12.661	PV	595	17593	0.47%	0.029%
169	12.683	12.661	12.702	VV	919	15770	0.42%	0.026%
170	12.727	12.702	12.748	VV	621	13751	0.37%	0.023%
171	12.787	12.748	12.805	VV	842	16707	0.45%	0.028%
172	12.824	12.805	12.835	VV	723	10256	0.27%	0.017%
173	12.847	12.835	12.865	VV	598	8119	0.22%	0.013%
174	12.922	12.865	12.954	VV	752	20298	0.54%	0.034%

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175	12.979	12.954	13.035	VV	966	26666	0.71%	0.044%
176	13.060	13.035	13.100	VV	1709	30177	0.81%	0.050%
177	13.116	13.100	13.132	VV	539	7464	0.20%	0.012%
178	13.180	13.132	13.196	VV	989	21719	0.58%	0.036%
179	13.206	13.196	13.246	VV	608	11593	0.31%	0.019%
180	13.284	13.246	13.299	PV	280	5129	0.14%	0.009%
181	13.333	13.299	13.368	VV	649	14777	0.39%	0.025%
182	13.427	13.368	13.442	PV	425	13868	0.37%	0.023%
183	13.508	13.442	13.540	VV	21634	279881	7.47%	0.465%
184	13.559	13.540	13.593	VV	1845	37403	1.00%	0.062%
185	13.615	13.593	13.636	VV	800	14207	0.38%	0.024%
186	13.644	13.636	13.658	VV	344	3352	0.09%	0.006%
187	13.680	13.658	13.699	VV	670	10925	0.29%	0.018%
188	13.725	13.699	13.751	VV	1192	20492	0.55%	0.034%
189	13.770	13.751	13.805	VV	352	8590	0.23%	0.014%
190	13.848	13.805	13.868	PV	1001	11287	0.30%	0.019%
191	13.904	13.868	13.928	PV	1396	22165	0.59%	0.037%
192	13.957	13.928	13.982	PV	786	12413	0.33%	0.021%
193	14.024	13.992	14.041	BH	31	-3394	-0.09%	-0.006%
194	14.122	14.041	14.142	PH	1046	29076	0.78%	0.048%
195	14.179	14.142	14.205	HH	2083	50691	1.35%	0.084%
196	14.224	14.205	14.235	HH	1557	24697	0.66%	0.041%
197	14.275	14.235	14.302	HH	3278	87710	2.34%	0.146%
198	14.328	14.302	14.345	HH	3066	63619	1.70%	0.106%
199	14.359	14.345	14.370	HH	2633	38795	1.03%	0.064%
200	14.421	14.370	14.438	HH	3424	123684	3.30%	0.205%
201	14.501	14.438	14.532	HH	6110	242957	6.48%	0.404%
202	14.568	14.532	14.618	HH	4791	223888	5.97%	0.372%
203	14.660	14.618	14.677	HH	5343	171409	4.57%	0.285%
204	14.690	14.677	14.704	HH	5305	82420	2.20%	0.137%
205	14.739	14.704	14.764	HH	5591	190376	5.08%	0.316%
206	14.790	14.764	14.809	HH	6861	160174	4.27%	0.266%
207	14.831	14.809	14.842	HH	5945	110085	2.94%	0.183%
208	14.866	14.842	14.881	HH	6085	138280	3.69%	0.230%
209	14.904	14.881	14.923	HH	7609	173309	4.62%	0.288%
210	14.962	14.923	15.015	HH	8953	415141	11.08%	0.690%
211	15.095	15.015	15.119	HH	9067	490390	13.08%	0.815%
212	15.129	15.119	15.182	HH	8395	297782	7.94%	0.495%
213	15.239	15.182	15.247	HH	8664	326685	8.72%	0.543%
214	15.273	15.247	15.285	HH	9272	208014	5.55%	0.346%
215	15.300	15.285	15.322	HH	9766	205625	5.49%	0.342%
216	15.344	15.322	15.354	HH	9001	176151	4.70%	0.293%
217	15.379	15.354	15.388	HH	10311	201540	5.38%	0.335%
218	15.434	15.388	15.448	HH	11065	379487	10.12%	0.630%
219	15.527	15.478	15.558	HH	12484	537249	14.33%	0.892%
220	15.632	15.602	15.680	HH	12231	560276	14.95%	0.931%
221	15.712	15.680	15.721	HH	12949	309139	8.25%	0.513%

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222	15.731	15.721	15.758	HH	12894	277713	7.41%	0.461%
223	15.822	15.758	15.839	HH	14193	639223	17.05%	1.062%
224	15.849	15.839	15.885	HH	13882	372551	9.94%	0.619%
225	16.049	16.025	16.073	HH	16271	442741	11.81%	0.735%
226	16.169	16.148	16.187	HH	17405	400810	10.69%	0.666%
227	16.296	16.282	16.308	HH	18828	286350	7.64%	0.476%
228	16.446	16.389	16.481	HH	22599	1171527	31.25%	1.946%
229	16.509	16.481	16.528	HH	21753	611414	16.31%	1.016%
230	16.620	16.528	16.641	HH	26528	1630962	43.51%	2.709%
231	16.652	16.641	16.667	HH	25319	395103	10.54%	0.656%
232	17.022	16.976	17.031	HV	28684	940790	25.10%	1.563%
233	17.053	17.031	17.084	VV	29276	895993	23.90%	1.488%
234	17.113	17.084	17.182	VV	28951	1597822	42.63%	2.654%
235	17.228	17.182	17.267	VV	27357	1315367	35.09%	2.185%
236	17.309	17.267	17.320	VV	23694	753191	20.09%	1.251%
237	17.395	17.320	17.418	VV	28479	1459439	38.93%	2.424%
238	17.432	17.418	17.446	VV	24031	395751	10.56%	0.657%
239	17.502	17.446	17.522	VV	22858	1013405	27.04%	1.683%
240	17.618	17.522	17.658	VV	24366	1801506	48.06%	2.992%
241	17.698	17.658	17.724	VV	20932	794334	21.19%	1.319%
242	17.797	17.724	17.821	VV	22462	1237091	33.00%	2.055%
243	17.863	17.821	17.877	VV	22891	721200	19.24%	1.198%
244	17.942	17.877	17.978	VV	26694	1430450	38.16%	2.376%
245	17.997	17.978	18.009	VV	22697	410421	10.95%	0.682%
246	18.031	18.009	18.051	VV	24128	578778	15.44%	0.961%
247	18.063	18.051	18.082	VV	23308	414787	11.07%	0.689%
248	18.120	18.082	18.143	VV	24157	854476	22.80%	1.419%
249	18.182	18.143	18.232	VV	26028	1309054	34.92%	2.174%
250	18.261	18.232	18.292	VV	25168	855968	22.84%	1.422%
251	18.316	18.292	18.335	VV	21435	543493	14.50%	0.903%
252	18.341	18.335	18.375	VV	21050	486409	12.98%	0.808%
253	18.415	18.375	18.488	VV	30015	1642746	43.82%	2.729%
254	18.557	18.488	18.572	VV	23952	1145333	30.56%	1.902%
255	18.624	18.572	18.636	VV	24015	902732	24.08%	1.499%
256	18.642	18.636	18.678	VV	23161	554194	14.78%	0.921%
257	18.687	18.678	18.710	VV	20783	384417	10.26%	0.639%
258	18.851	18.835	18.868	VV	17658	336386	8.97%	0.559%
259	19.104	19.015	19.120	VV	27532	1503660	40.11%	2.498%
260	19.127	19.120	19.138	VV	25783	279420	7.45%	0.464%
261	19.315	19.309	19.322	VV	24397	195089	5.20%	0.324%
262	19.609	19.572	19.640	VV	35895	1329056	35.46%	2.208%
263	19.889	19.865	19.902	VV	38520	812783	21.68%	1.350%
264	19.955	19.948	19.973	VV	31938	452801	12.08%	0.752%
265	20.361	20.319	20.414	VV	57404	2886465	77.00%	4.794%
266	20.636	20.545	20.667	M	57773	3748428	100.00%	6.226%
267	21.091	21.037	21.140	VV	56034	3288908	87.74%	5.463%
268	21.150	21.140	21.160	VV	51632	631615	16.85%	1.049%
269	21.345	21.335	21.437	VV	52987	2606593	69.54%	4.330%

					rteres			
270	21.624	21.572	21.651	VV	34668	1581790	42.20%	2.627%
271	21.660	21.651	21.672	VV	32532	388528	10.37%	0.645%
272	21.849	21.838	21.858	VV	26866	317680	8.48%	0.528%
273	21.869	21.858	21.875	VV	28898	274099	7.31%	0.455%
274	21.948	21.938	21.957	VV	21635	235930	6.29%	0.392%
275	22.123	22.113	22.151	VV	10833	216830	5.78%	0.360%
276	22.170	22.151	22.178	VV	10348	149031	3.98%	0.248%
277	22.482	22.473	22.497	VV	7383	66438	1.77%	0.110%
278	22.581	22.553	22.602	VBA	3012	194470	5.19%	0.323%
			Sum of corrected areas:			60204201		

Aliphatic EPH 092425.M Thu Sep 25 18:53:44 2025

CALIBRATION SUMMARY

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

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

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

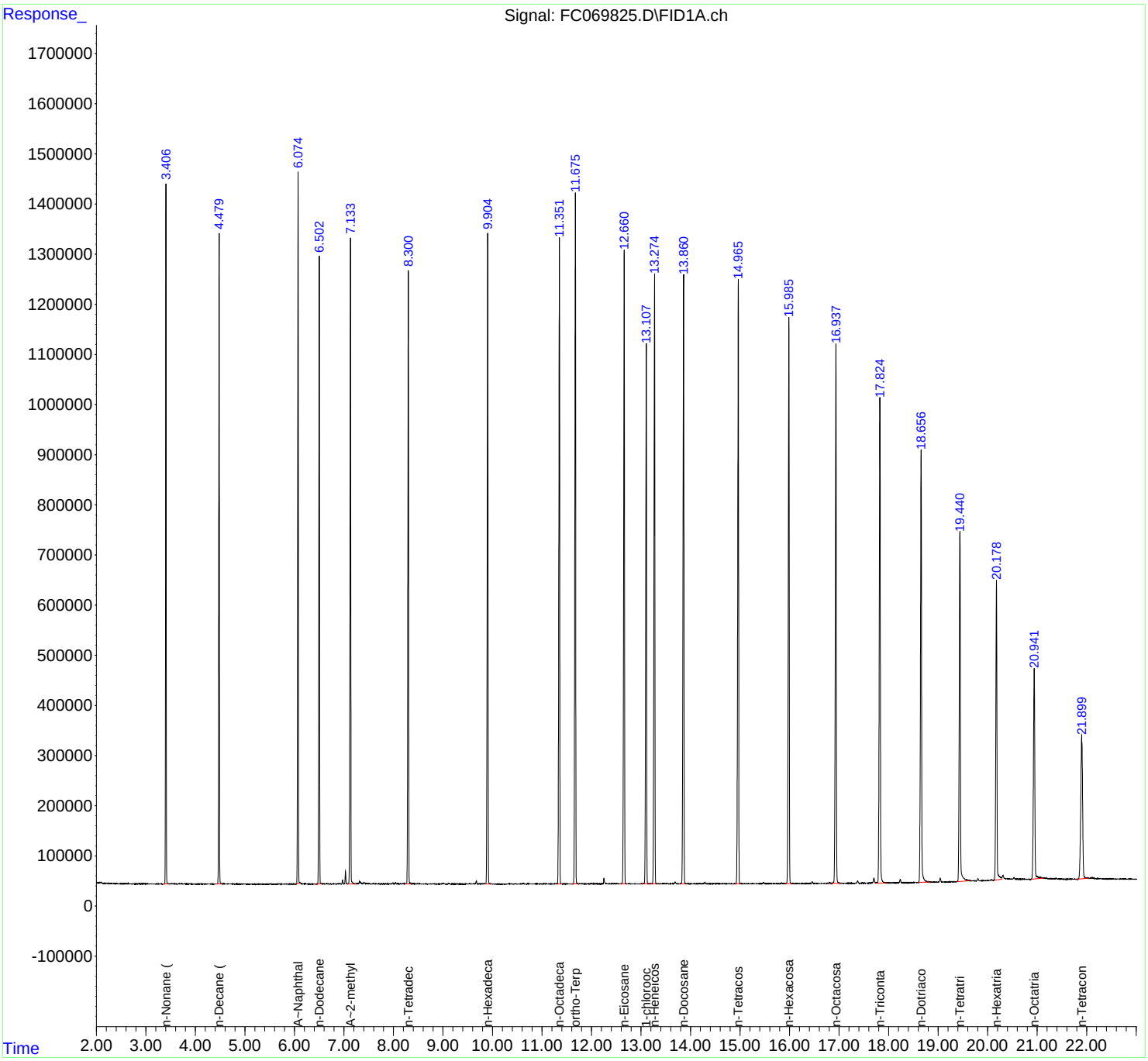
(f)=RT Delta > 1/2 Window (m)=manual int.

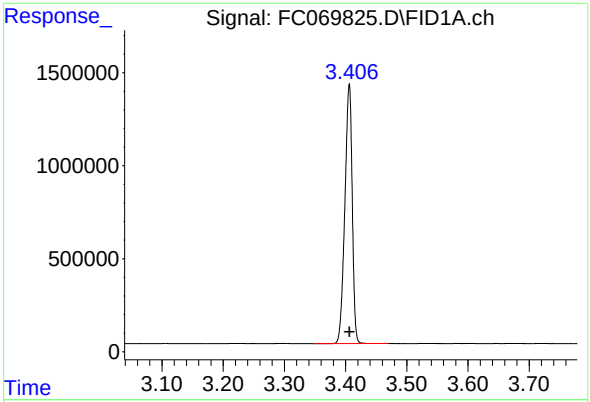
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069825.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 10:31
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

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

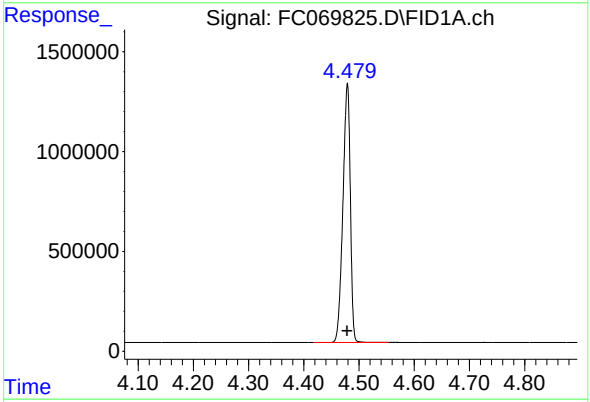




#1 n-Nonane (C9)

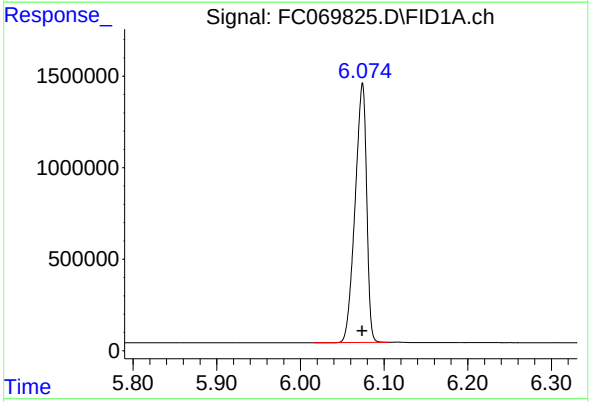
R.T.: 3.406 min
Delta R.T.: 0.000 min
Response: 11645434
Conc: 92.78 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



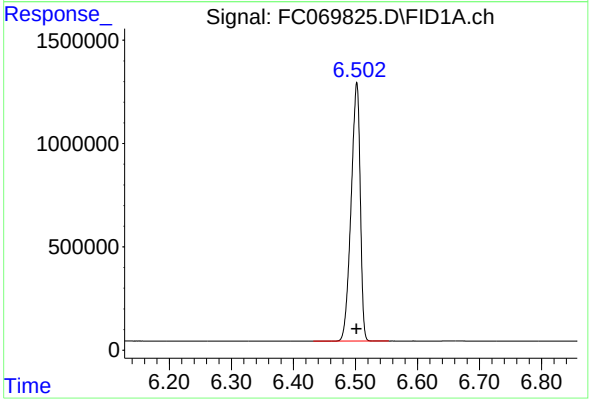
#2 n-Decane (C10)

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



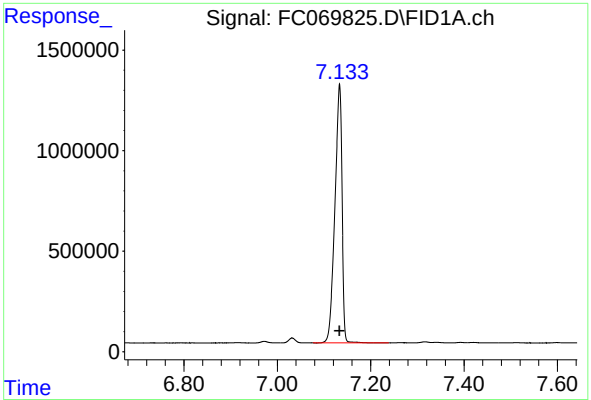
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

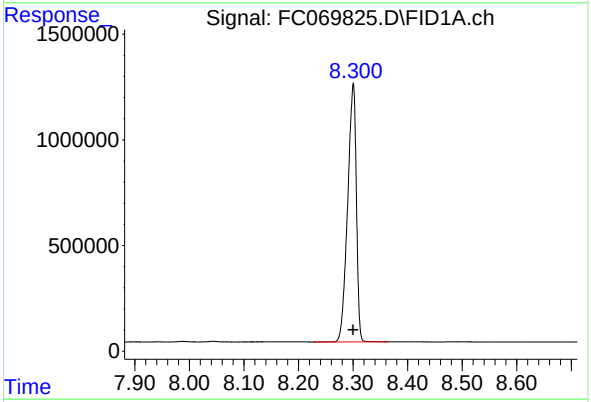
R.T.: 6.502 min
Delta R.T.: 0.000 min
Response: 12761168
Conc: 92.36 ug/ml



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

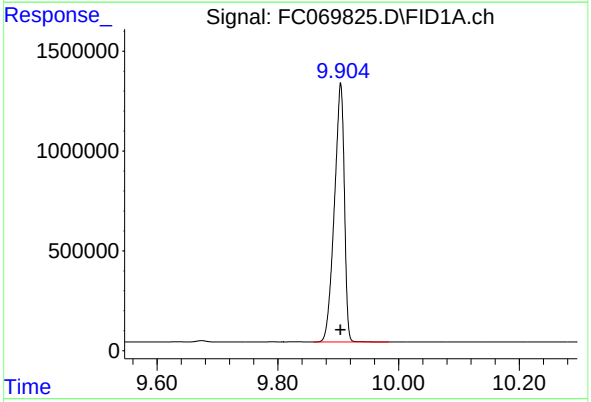
R.T.: 7.133 min
Delta R.T.: 0.000 min
Response: 13632065
Conc: 93.33 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



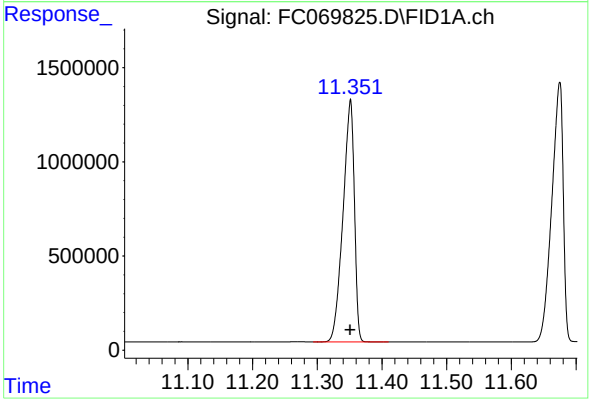
#6 n-Tetradecane (C14)

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



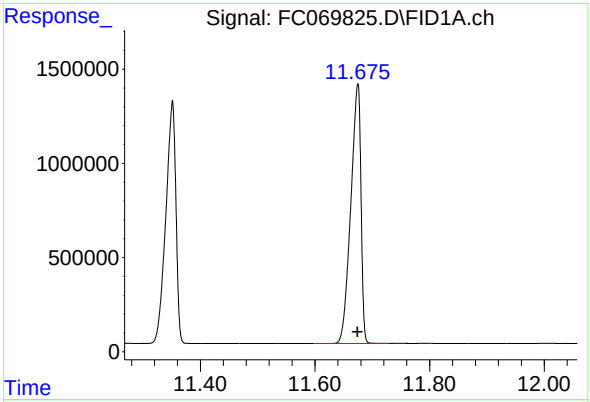
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

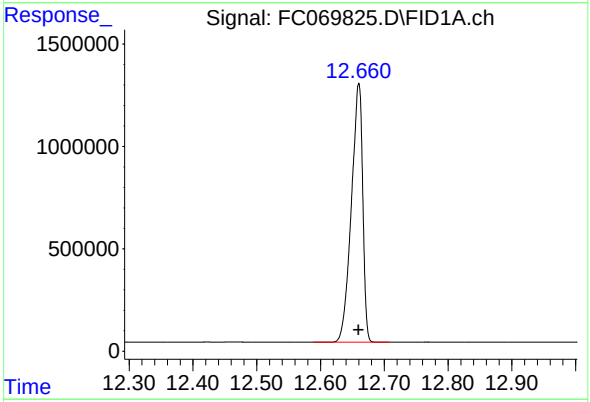
R.T.: 11.351 min
Delta R.T.: 0.000 min
Response: 15683416
Conc: 89.70 ug/ml



#9 ortho-Terphenyl (SURR)

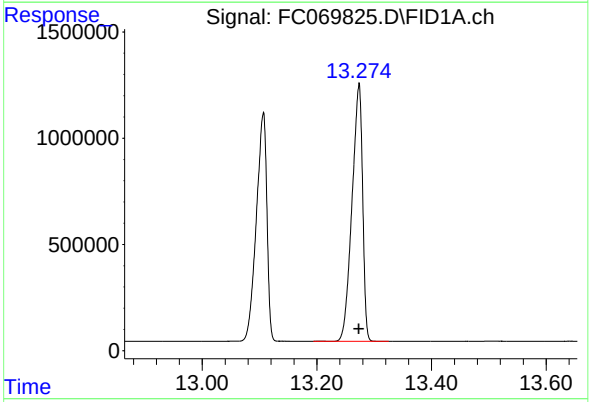
R.T.: 11.674 min
Delta R.T.: 0.000 min
Response: 16923747
Conc: 91.70 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



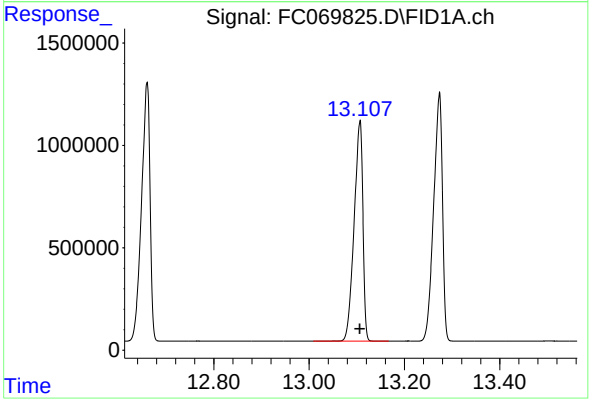
#10 n-Eicosane (C20)

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



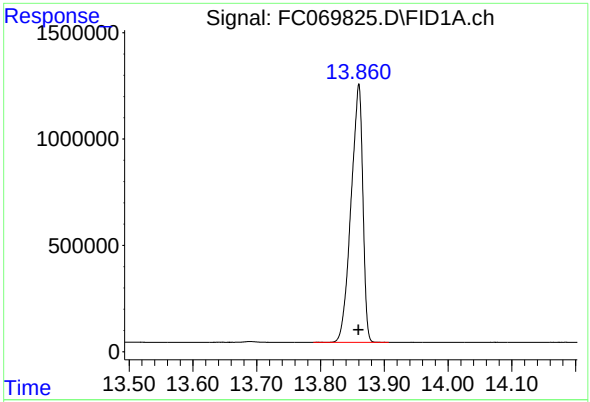
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

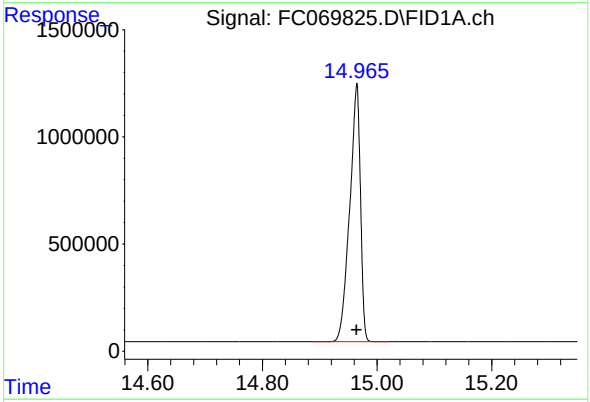
R.T.: 13.106 min
Delta R.T.: 0.000 min
Response: 13748454
Conc: 88.75 ug/ml



#13 n-Docosane (C22)

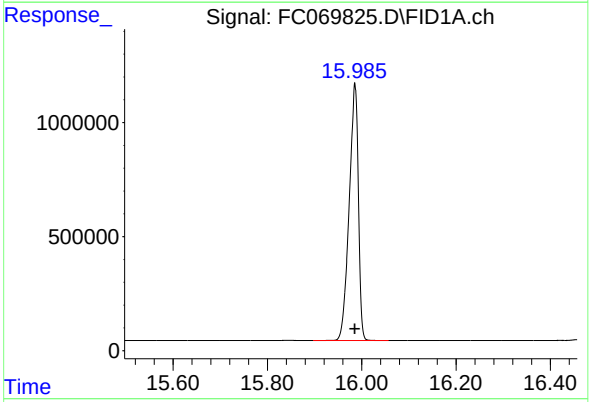
R.T.: 13.860 min
Delta R.T.: 0.000 min
Response: 15568351
Conc: 87.64 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



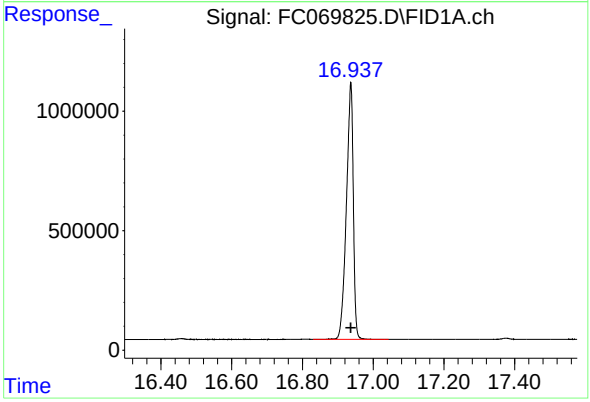
#14 n-Tetracosane (C24)

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



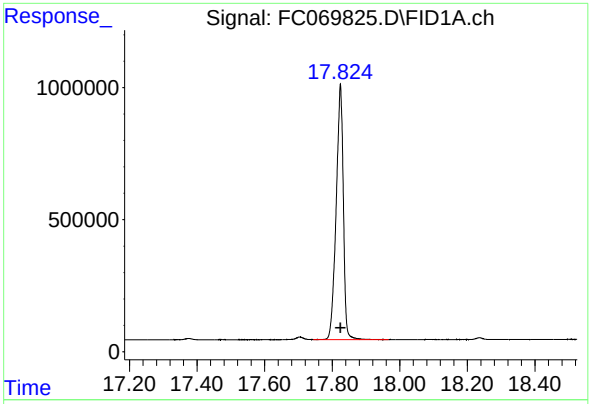
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

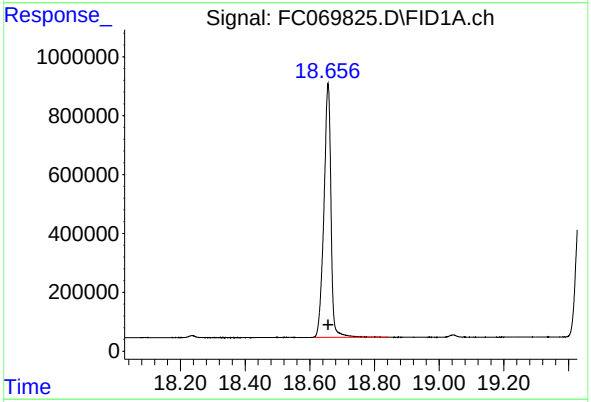
R.T.: 16.936 min
Delta R.T.: 0.000 min
Response: 14583672
Conc: 84.89 ug/ml



#17 n-Tricontane (C30)

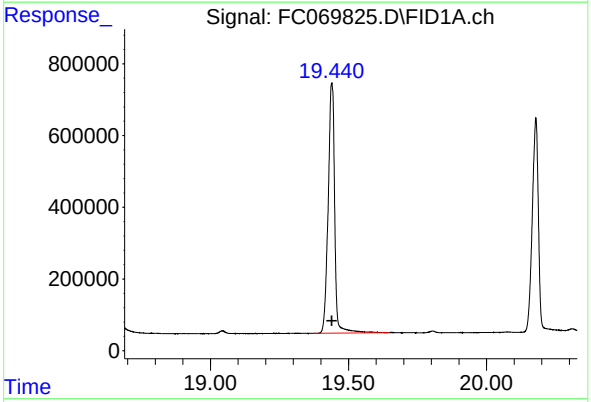
R.T.: 17.824 min
Delta R.T.: 0.000 min
Response: 14231420
Conc: 84.23 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



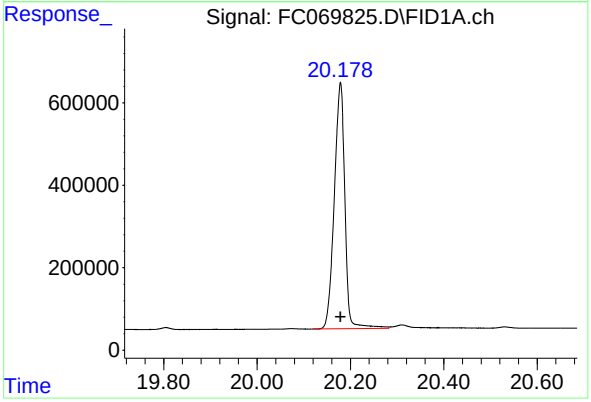
#18 n-Dotriacontane (C32)

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



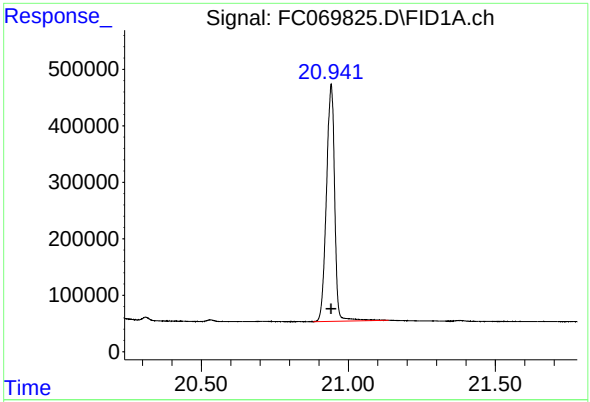
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

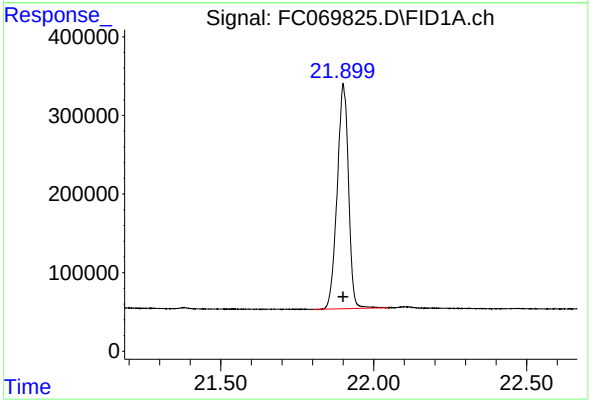
R.T.: 20.178 min
Delta R.T.: 0.000 min
Response: 9384313
Conc: 85.99 ug/ml



#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

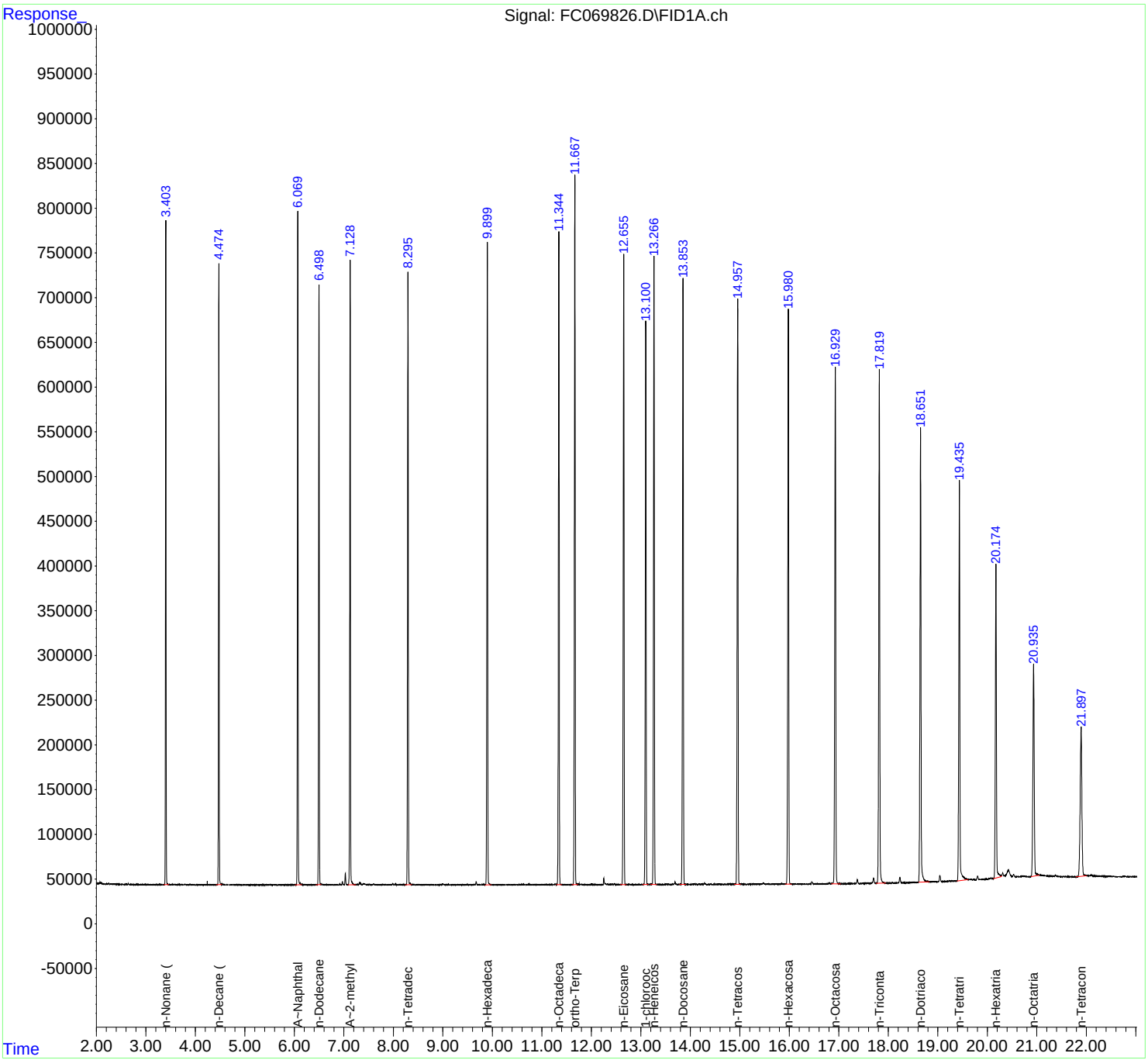
(f)=RT Delta > 1/2 Window (m)=manual int.

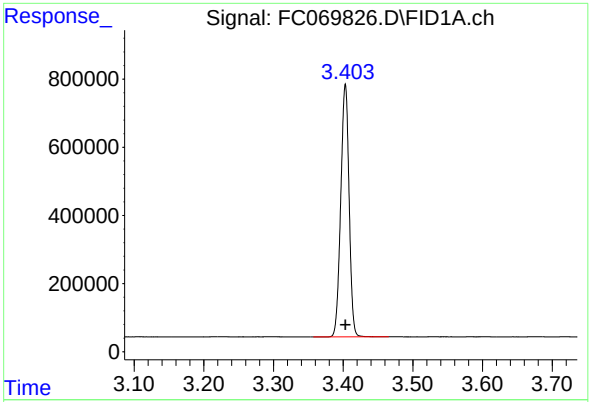
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069826.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 11:16
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

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

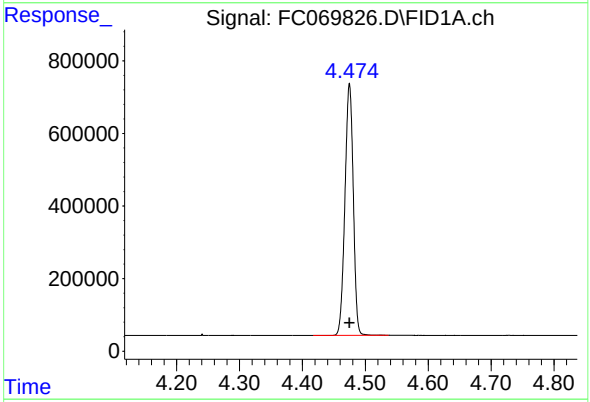




#1 n-Nonane (C9)

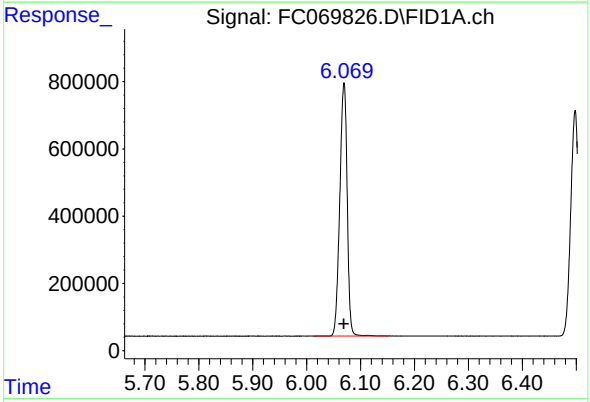
R.T.: 3.403 min
Delta R.T.: 0.000 min
Response: 6152543
Conc: 49.34 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



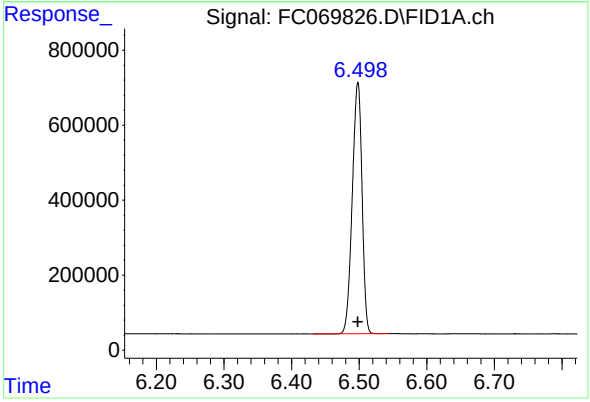
#2 n-Decane (C10)

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



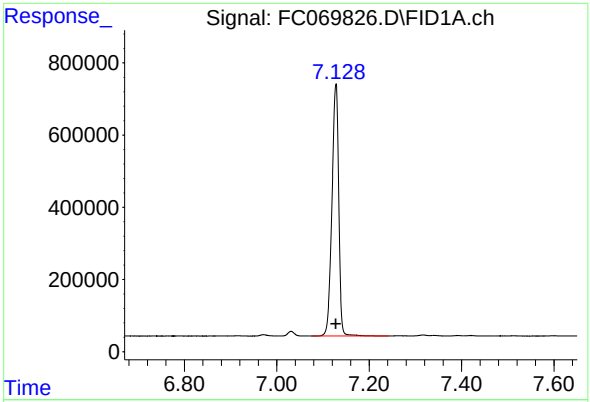
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

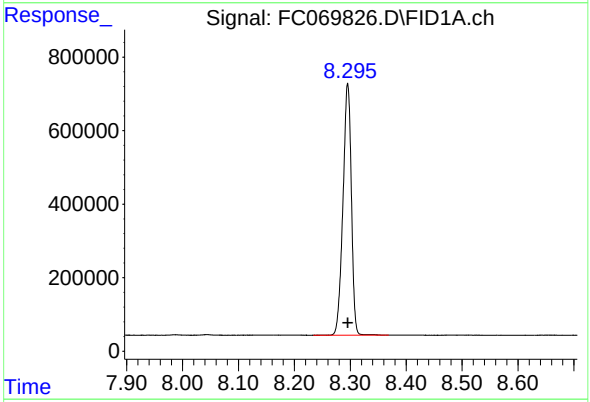
R.T.: 6.498 min
Delta R.T.: 0.000 min
Response: 6712655
Conc: 49.04 ug/ml



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

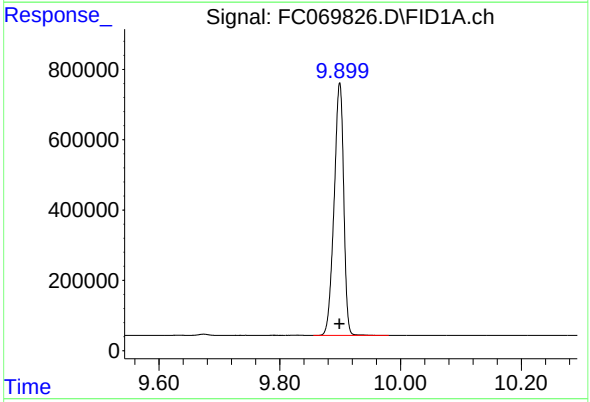
R.T.: 7.128 min
Delta R.T.: 0.000 min
Response: 7133568
Conc: 49.22 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



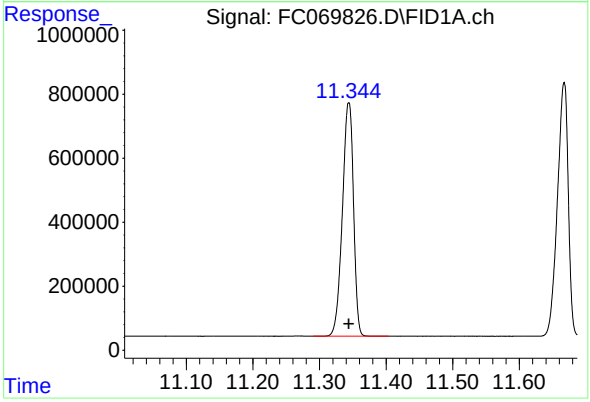
#6 n-Tetradecane (C14)

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



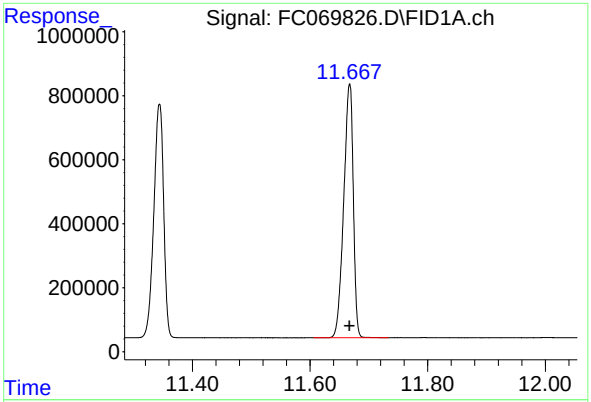
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

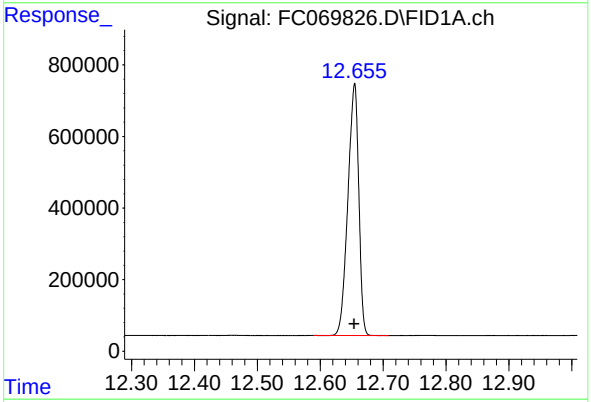
R.T.: 11.344 min
Delta R.T.: 0.000 min
Response: 8462910
Conc: 48.93 ug/ml



#9 ortho-Terphenyl (SURR)

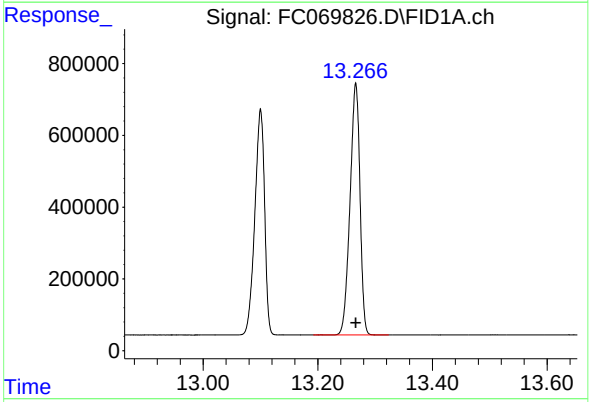
R.T.: 11.667 min
Delta R.T.: 0.000 min
Response: 8965638
Conc: 49.05 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



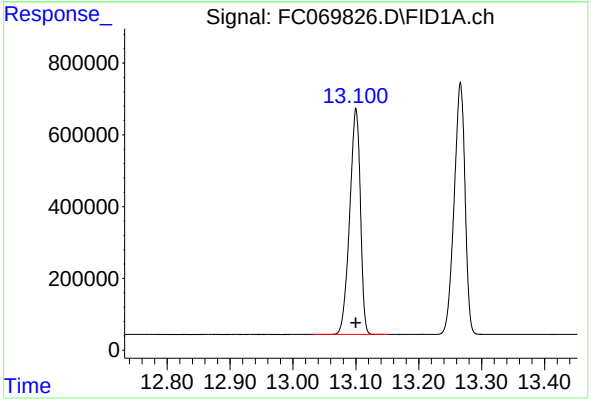
#10 n-Eicosane (C20)

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



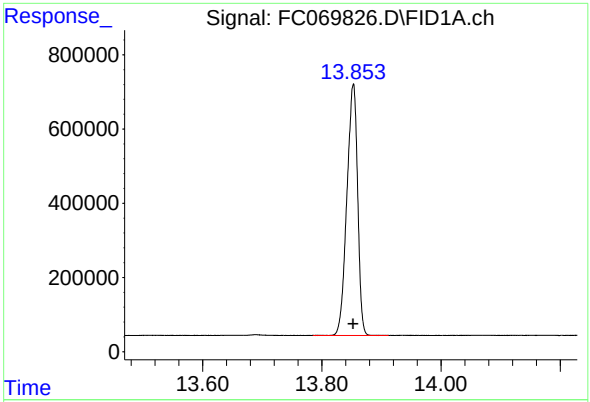
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

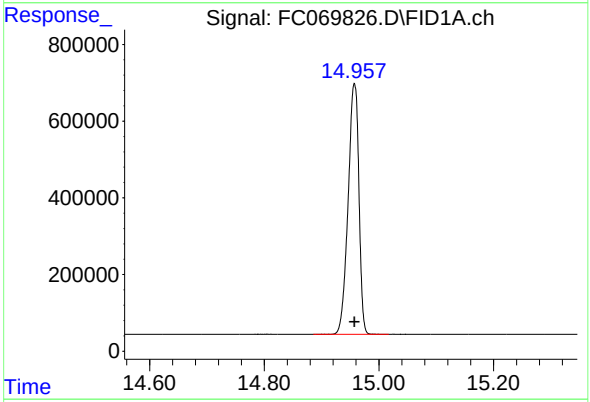
R.T.: 13.100 min
Delta R.T.: 0.000 min
Response: 7425577
Conc: 48.60 ug/ml



#13 n-Docosane (C22)

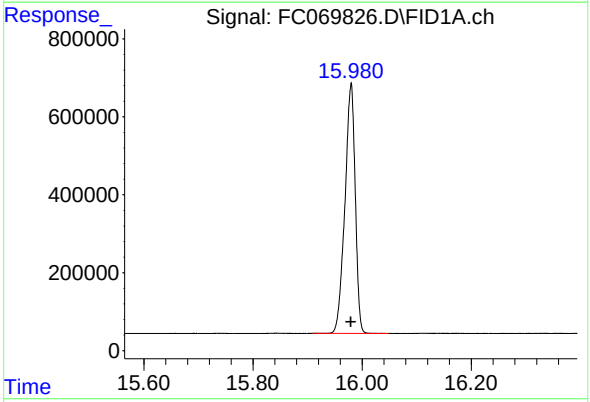
R.T.: 13.853 min
Delta R.T.: 0.000 min
Response: 8470750
Conc: 48.43 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



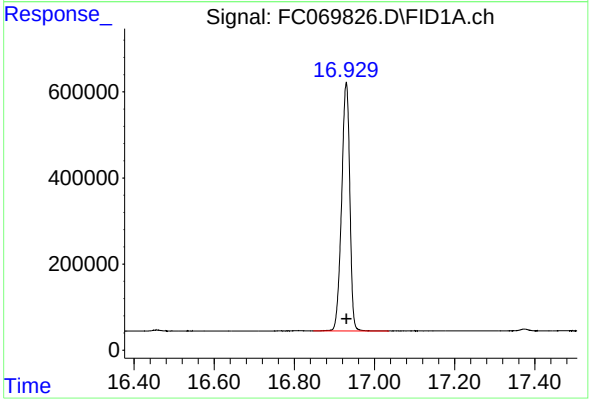
#14 n-Tetracosane (C24)

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



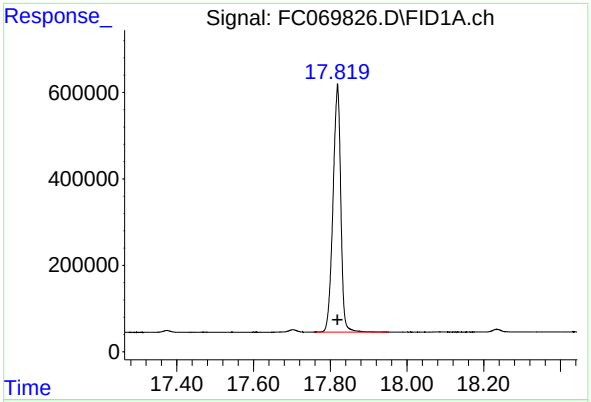
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

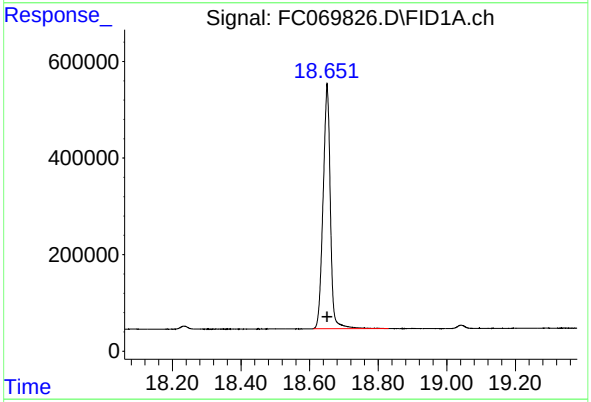
R.T.: 16.929 min
Delta R.T.: 0.000 min
Response: 8178481
Conc: 48.38 ug/ml



#17 n-Tricontane (C30)

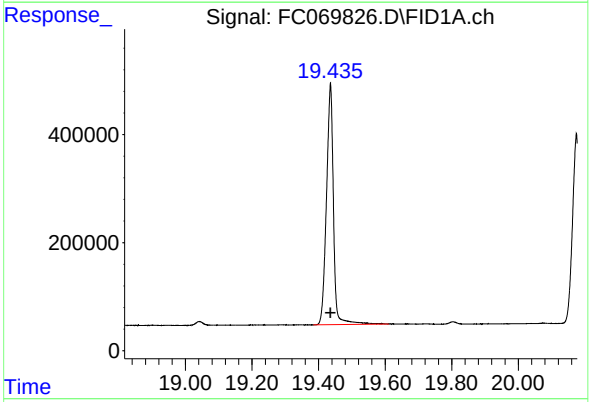
R.T.: 17.819 min
Delta R.T.: 0.000 min
Response: 8058251
Conc: 48.44 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



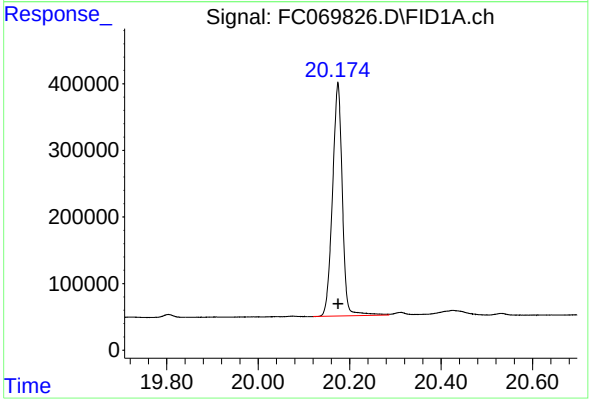
#18 n-Dotriacontane (C32)

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



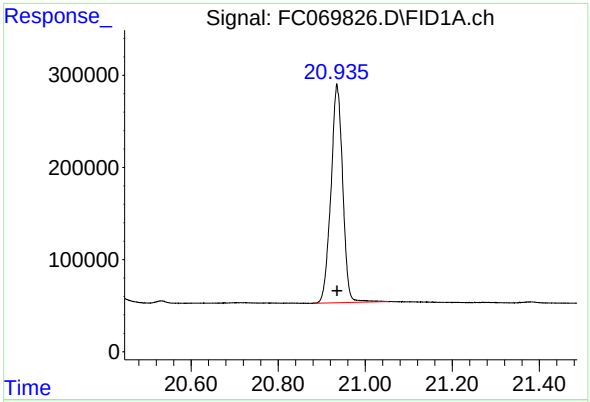
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

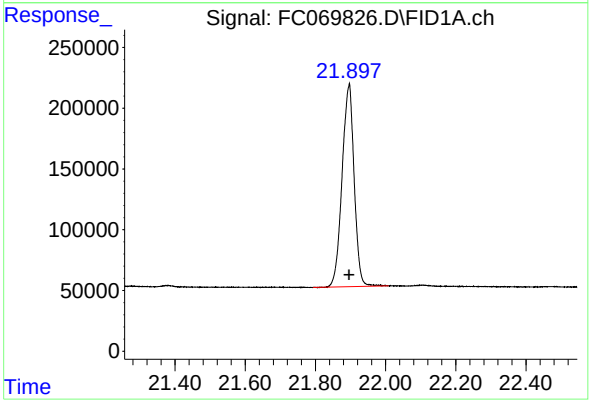
R.T.: 20.174 min
Delta R.T.: 0.000 min
Response: 5232913
Conc: 48.62 ug/ml



#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

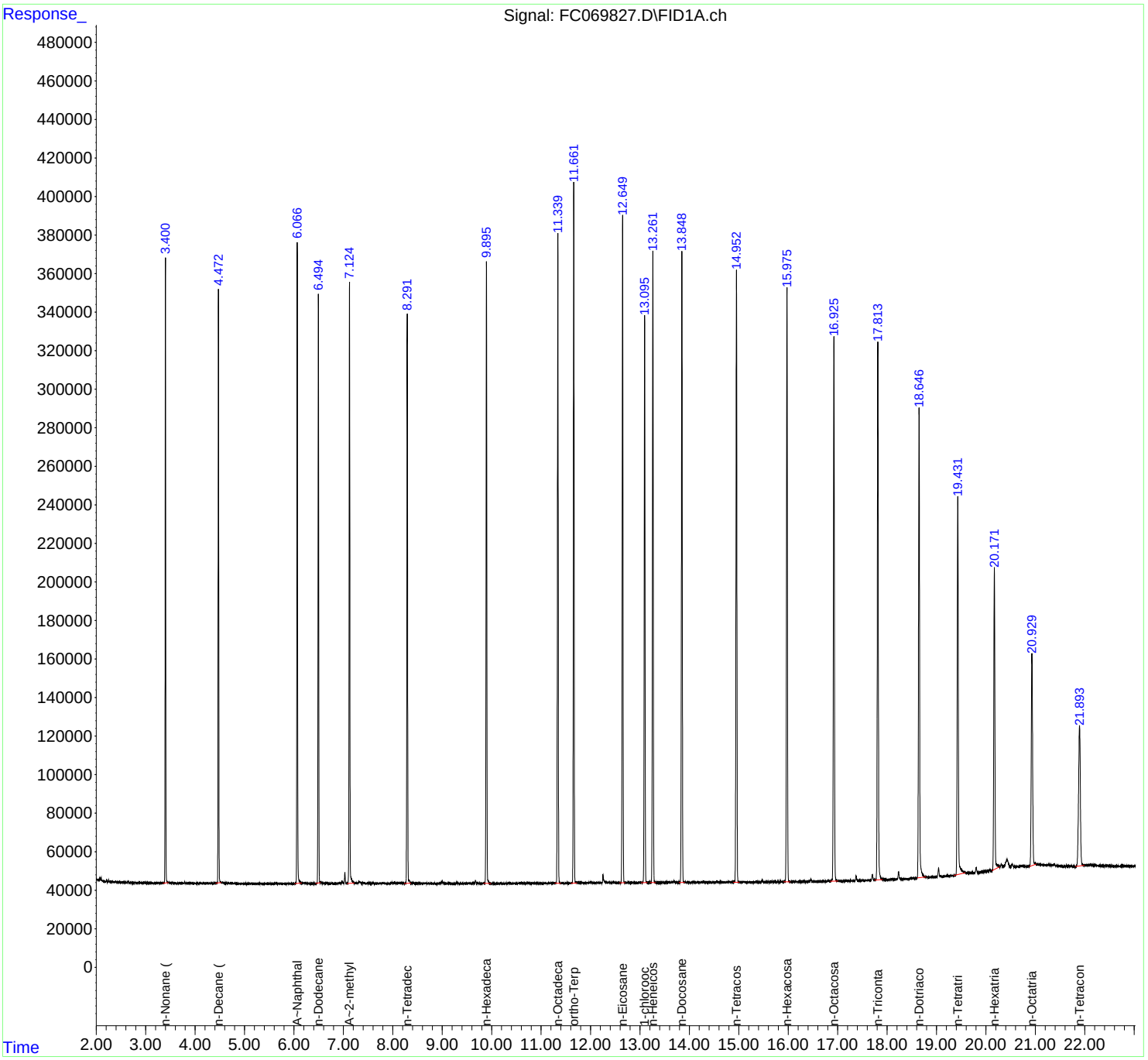
(f)=RT Delta > 1/2 Window (m)=manual int.

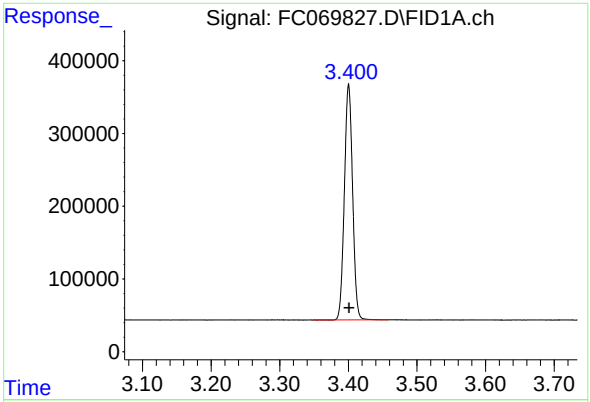
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069827.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 12:02
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

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

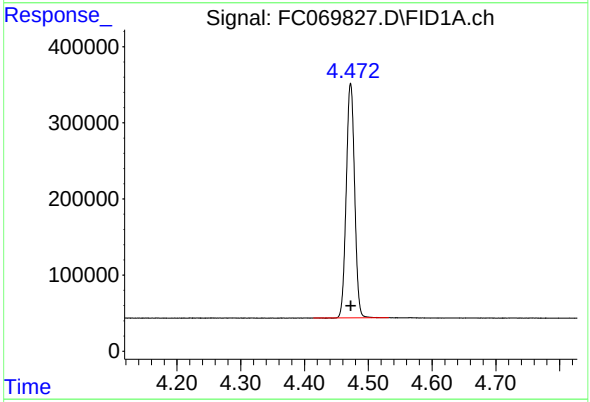




#1 n-Nonane (C9)

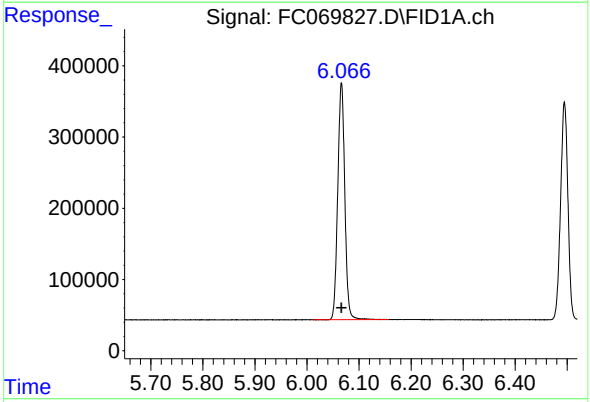
R.T.: 3.401 min
Delta R.T.: 0.000 min
Response: 2691320
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



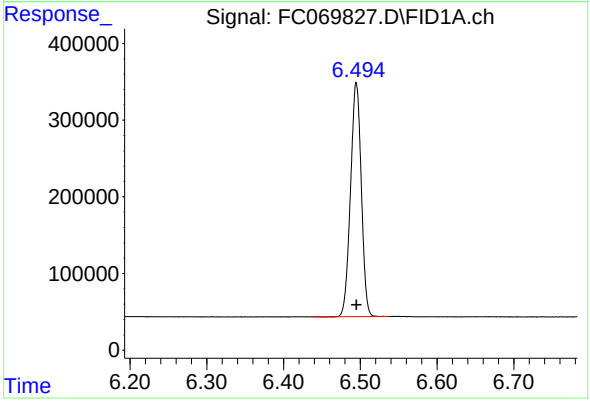
#2 n-Decane (C10)

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



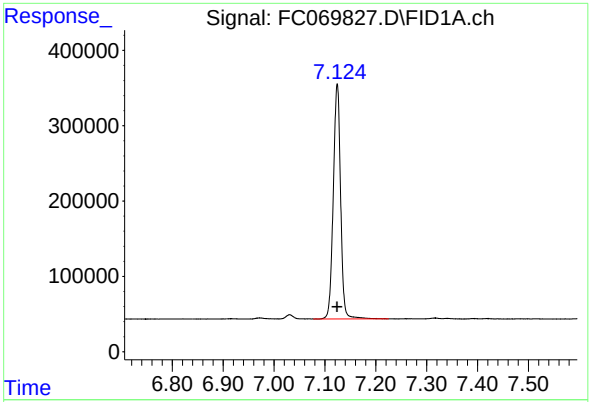
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

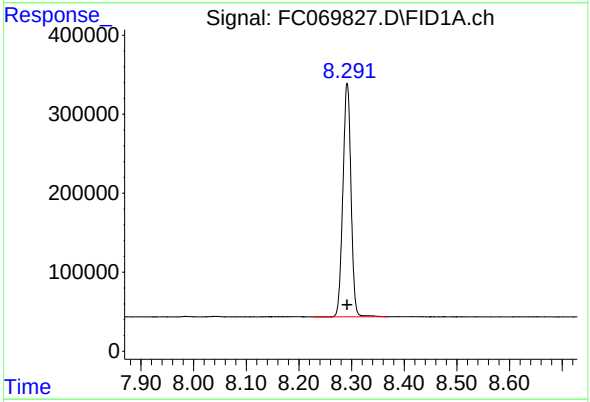
R.T.: 6.495 min
Delta R.T.: 0.000 min
Response: 2974748
Conc: 20.00 ug/ml



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

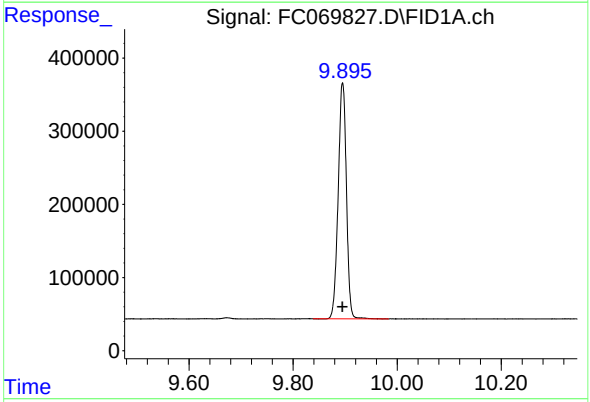
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 3116315
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



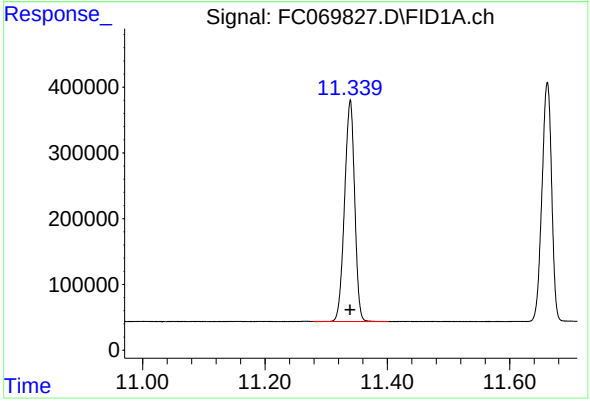
#6 n-Tetradecane (C14)

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



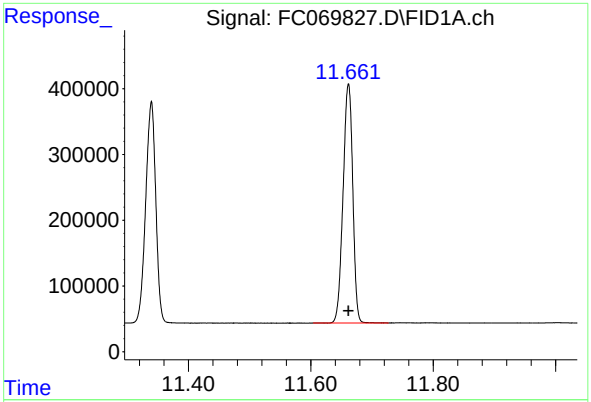
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

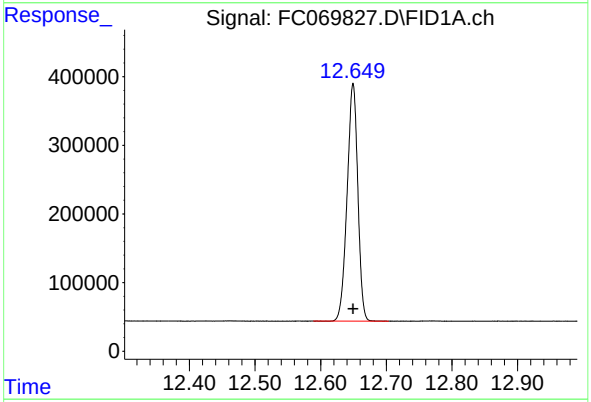
R.T.: 11.339 min
Delta R.T.: 0.000 min
Response: 3856654
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

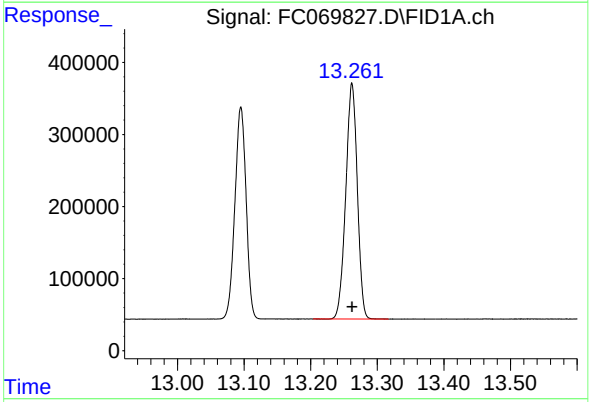
R.T.: 11.661 min
Delta R.T.: 0.000 min
Response: 3997190
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



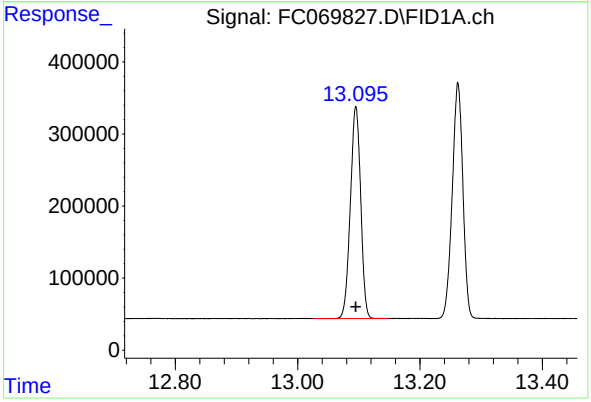
#10 n-Eicosane (C20)

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



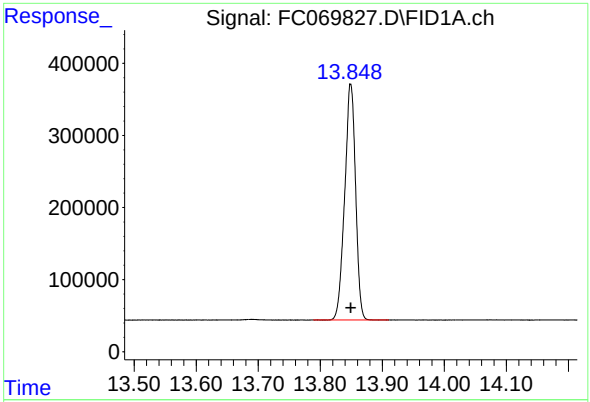
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

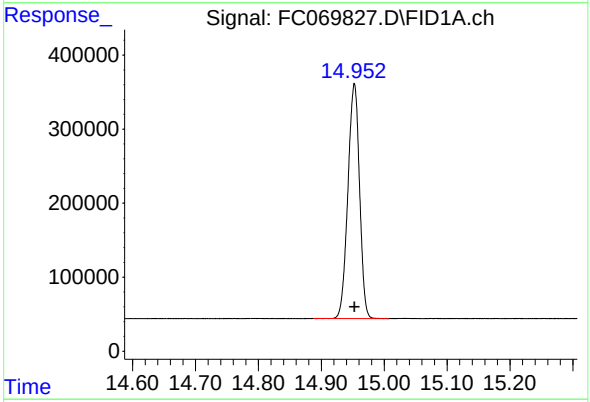
R.T.: 13.095 min
Delta R.T.: 0.000 min
Response: 3447033
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

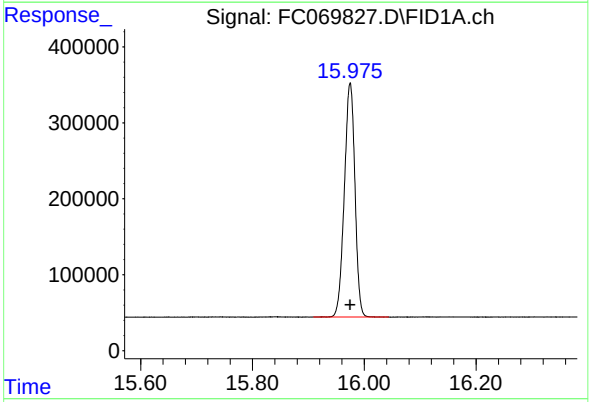
R.T.: 13.849 min
Delta R.T.: 0.000 min
Response: 3991937
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



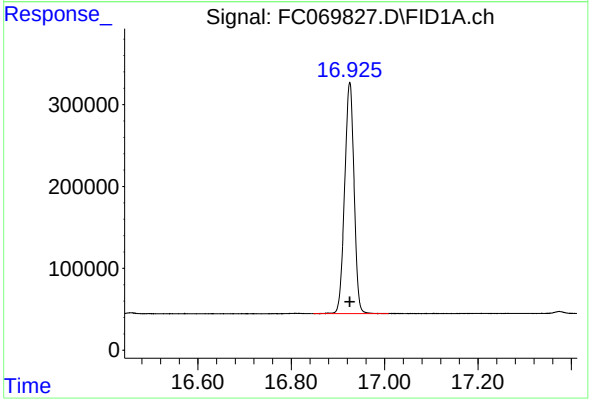
#14 n-Tetracosane (C24)

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



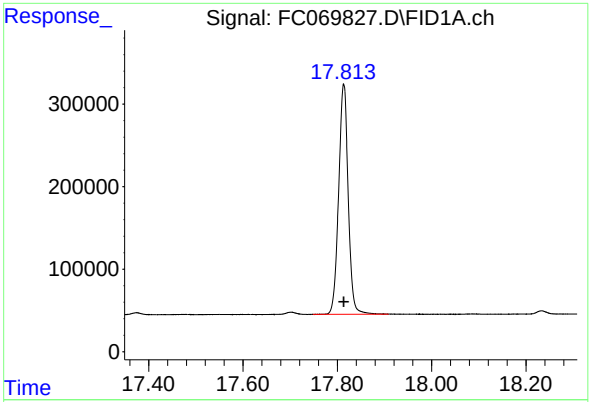
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

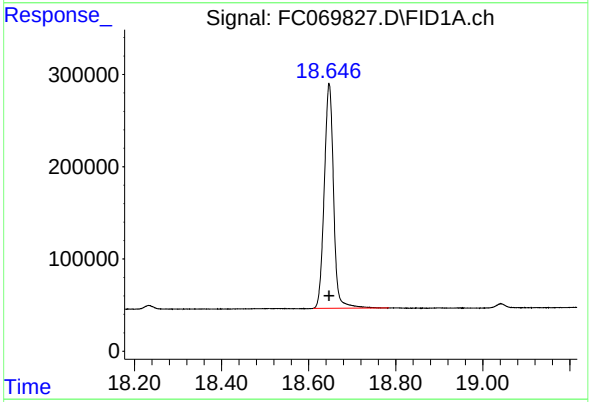
R.T.: 16.925 min
Delta R.T.: 0.000 min
Response: 3954788
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

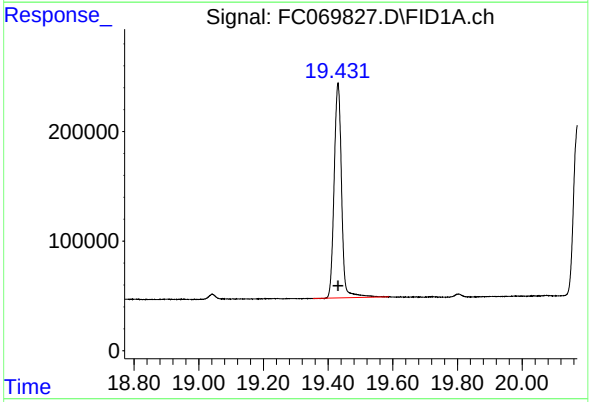
R.T.: 17.814 min
Delta R.T.: 0.000 min
Response: 3912238
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



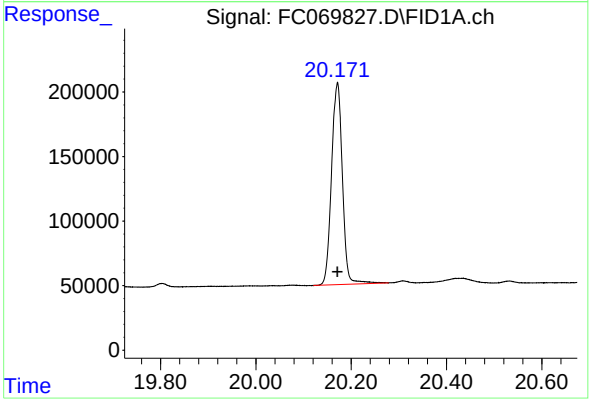
#18 n-Dotriacontane (C32)

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



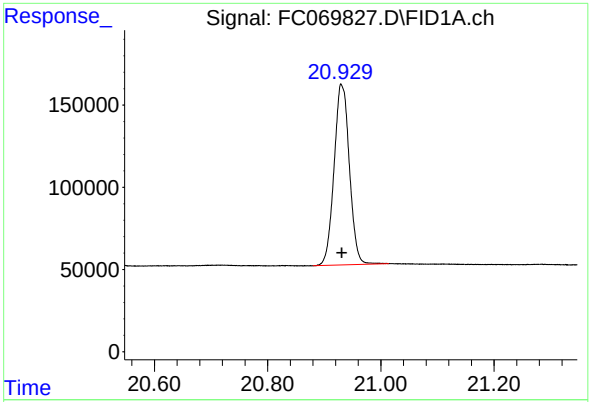
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

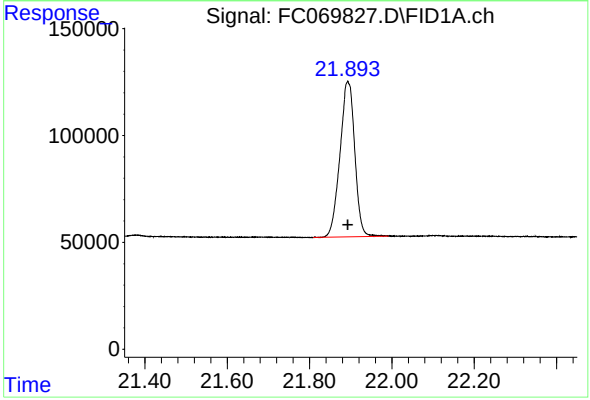
R.T.: 20.171 min
Delta R.T.: 0.000 min
Response: 2488192
Conc: 20.00 ug/ml



#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.

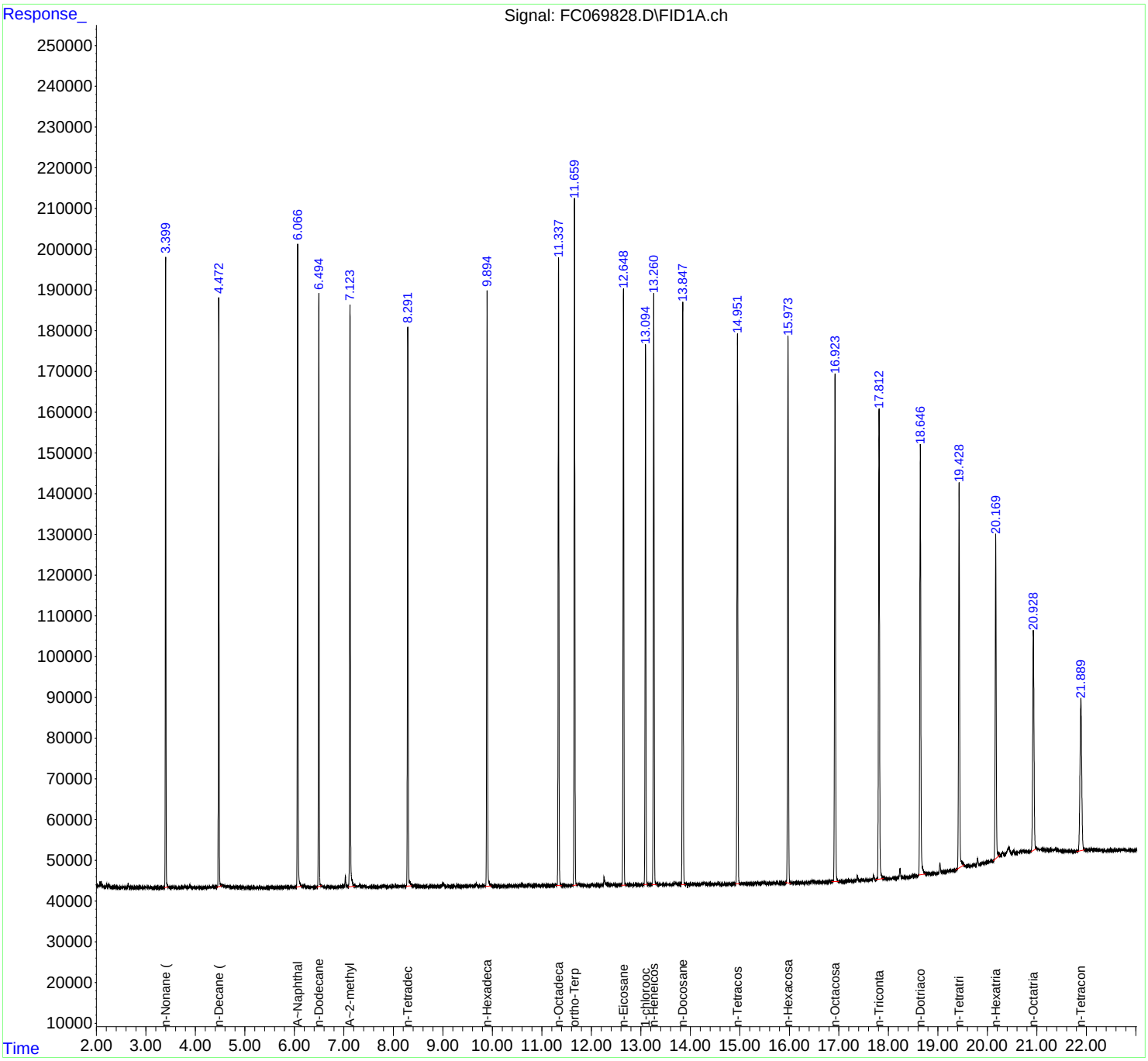
Quantitation Report (QT Reviewed)

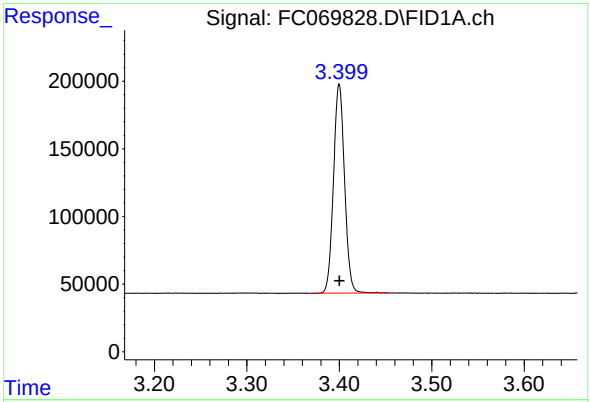
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069828.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 12:47
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

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

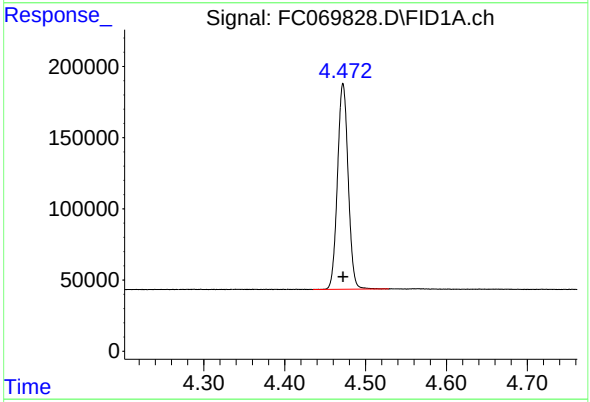




#1 n-Nonane (C9)

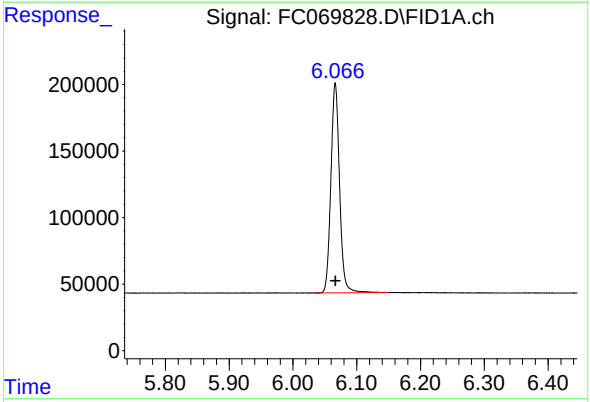
R.T.: 3.400 min
Delta R.T.: 0.000 min
Response: 1287588
Conc: 10.24 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



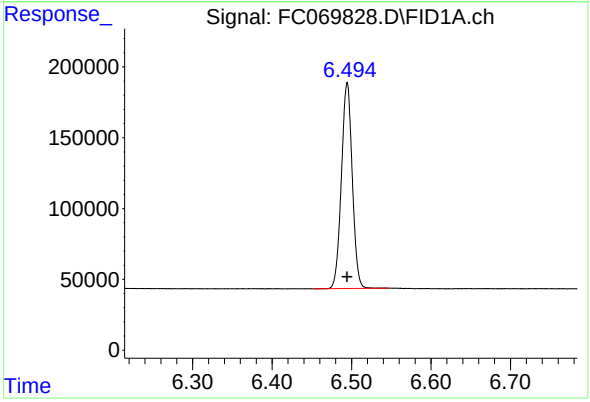
#2 n-Decane (C10)

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



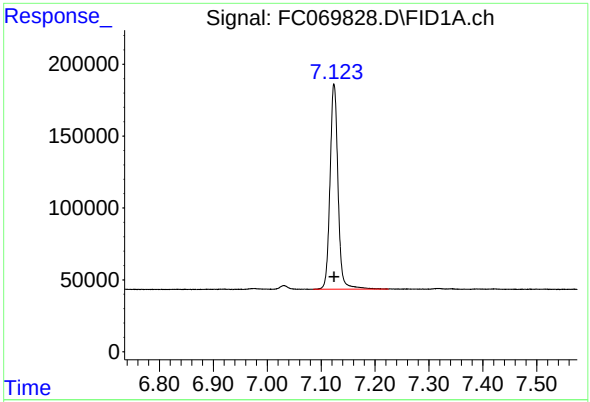
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

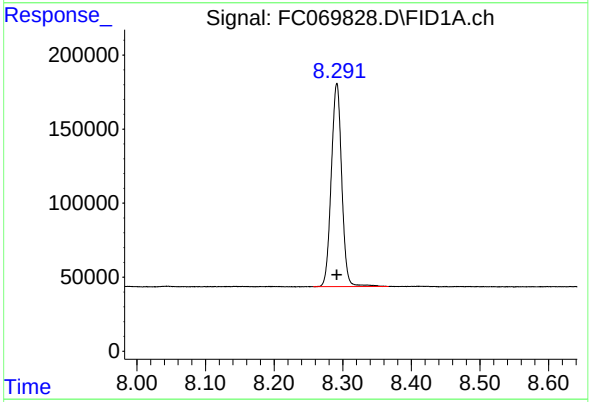
R.T.: 6.495 min
Delta R.T.: 0.000 min
Response: 1378664
Conc: 10.05 ug/ml



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

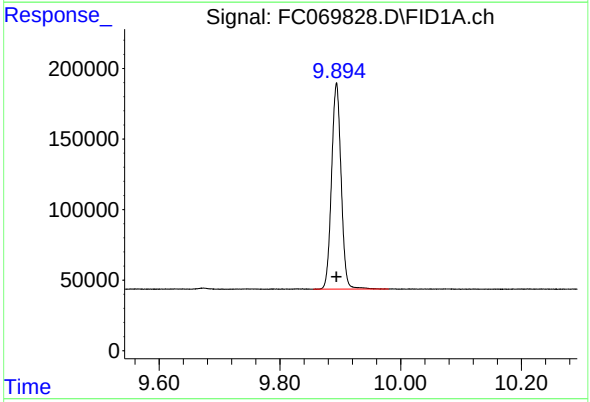
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 1473925
Conc: 10.13 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



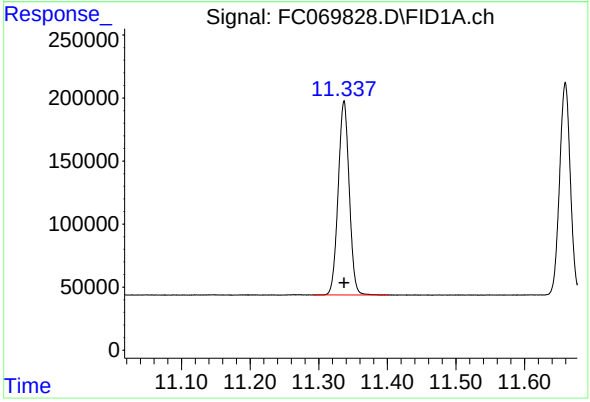
#6 n-Tetradecane (C14)

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



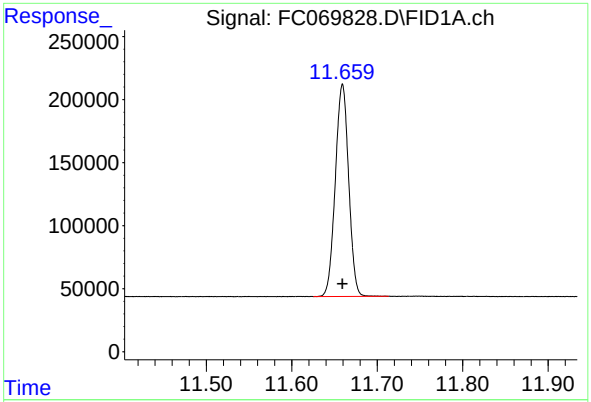
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

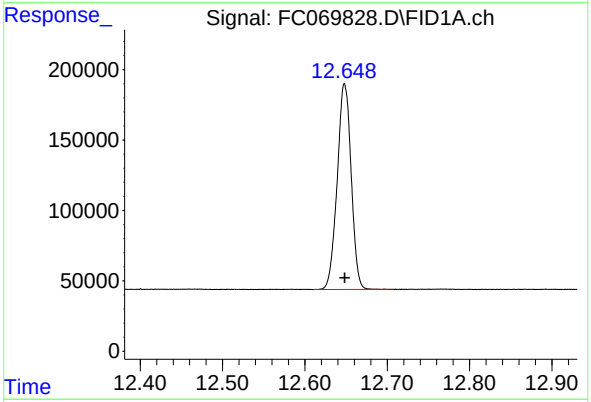
R.T.: 11.337 min
Delta R.T.: 0.000 min
Response: 1715153
Conc: 9.94 ug/ml



#9 ortho-Terphenyl (SURR)

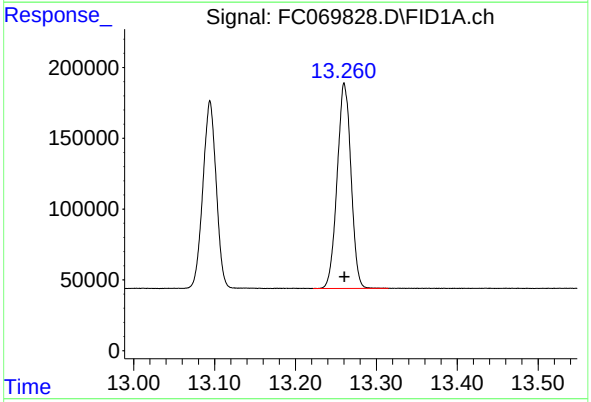
R.T.: 11.659 min
Delta R.T.: 0.000 min
Response: 1827092
Conc: 10.00 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



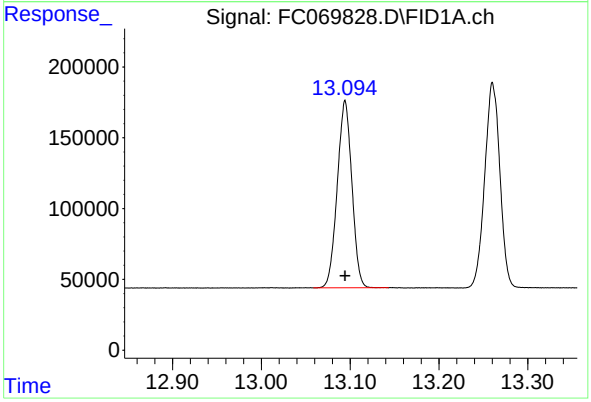
#10 n-Eicosane (C20)

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



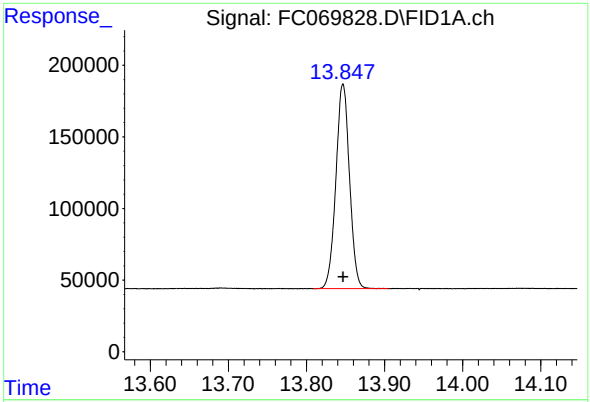
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

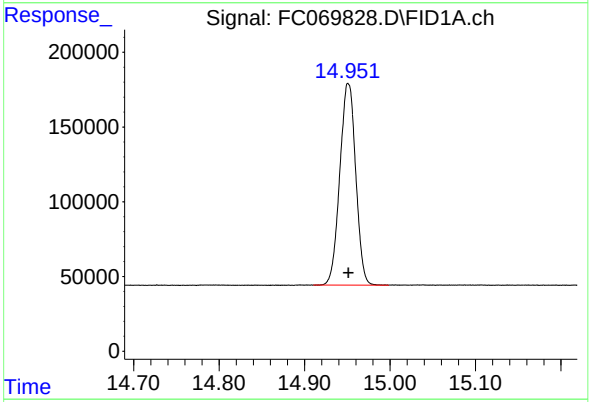
R.T.: 13.094 min
Delta R.T.: 0.000 min
Response: 1510608
Conc: 9.92 ug/ml



#13 n-Docosane (C22)

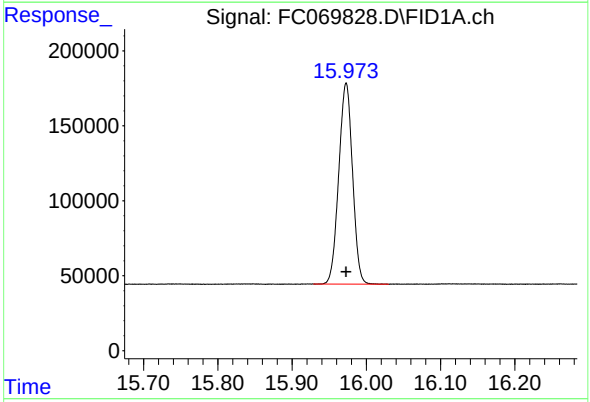
R.T.: 13.847 min
Delta R.T.: 0.000 min
Response: 1730466
Conc: 9.92 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



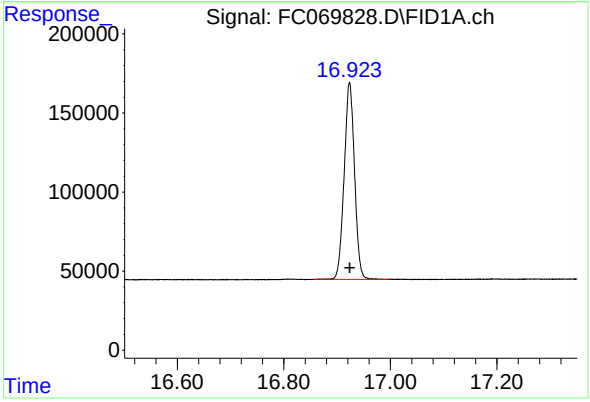
#14 n-Tetracosane (C24)

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



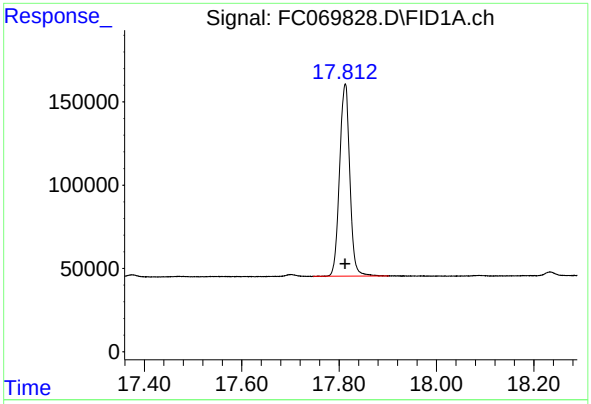
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

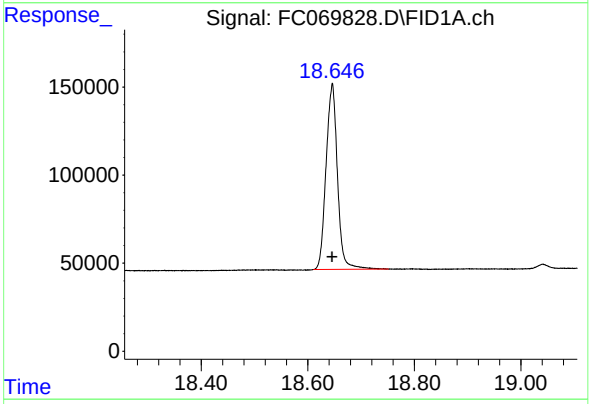
R.T.: 16.923 min
Delta R.T.: 0.000 min
Response: 1682895
Conc: 9.97 ug/ml



#17 n-Tricontane (C30)

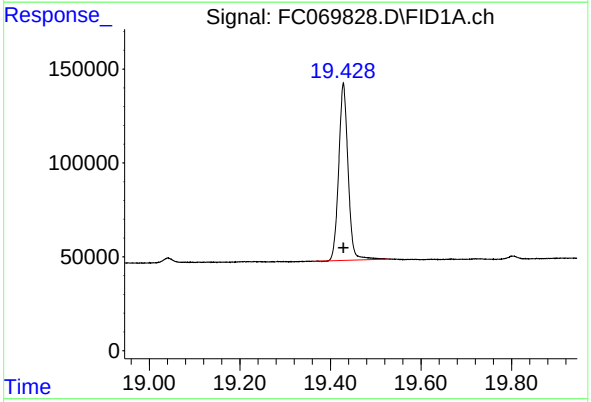
R.T.: 17.812 min
Delta R.T.: 0.000 min
Response: 1680498
Conc: 10.08 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



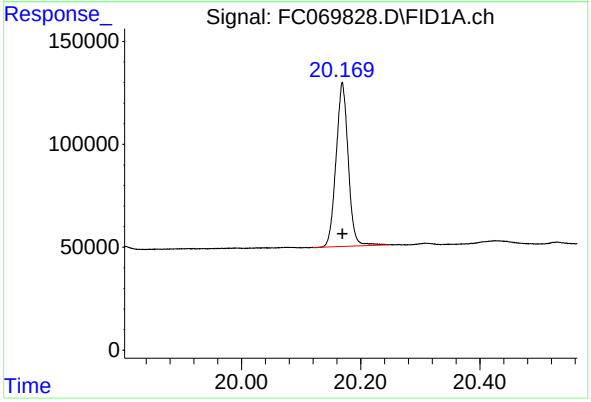
#18 n-Dotriacontane (C32)

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



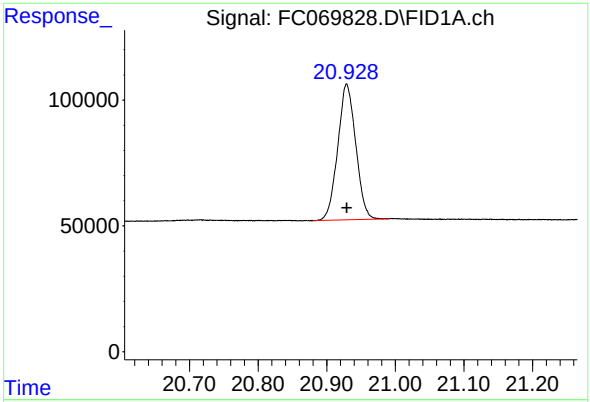
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

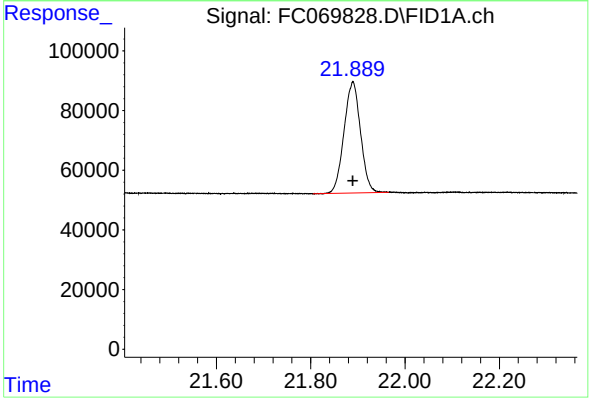
R.T.: 20.169 min
Delta R.T.: 0.000 min
Response: 1124746
Conc: 10.33 ug/ml



#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

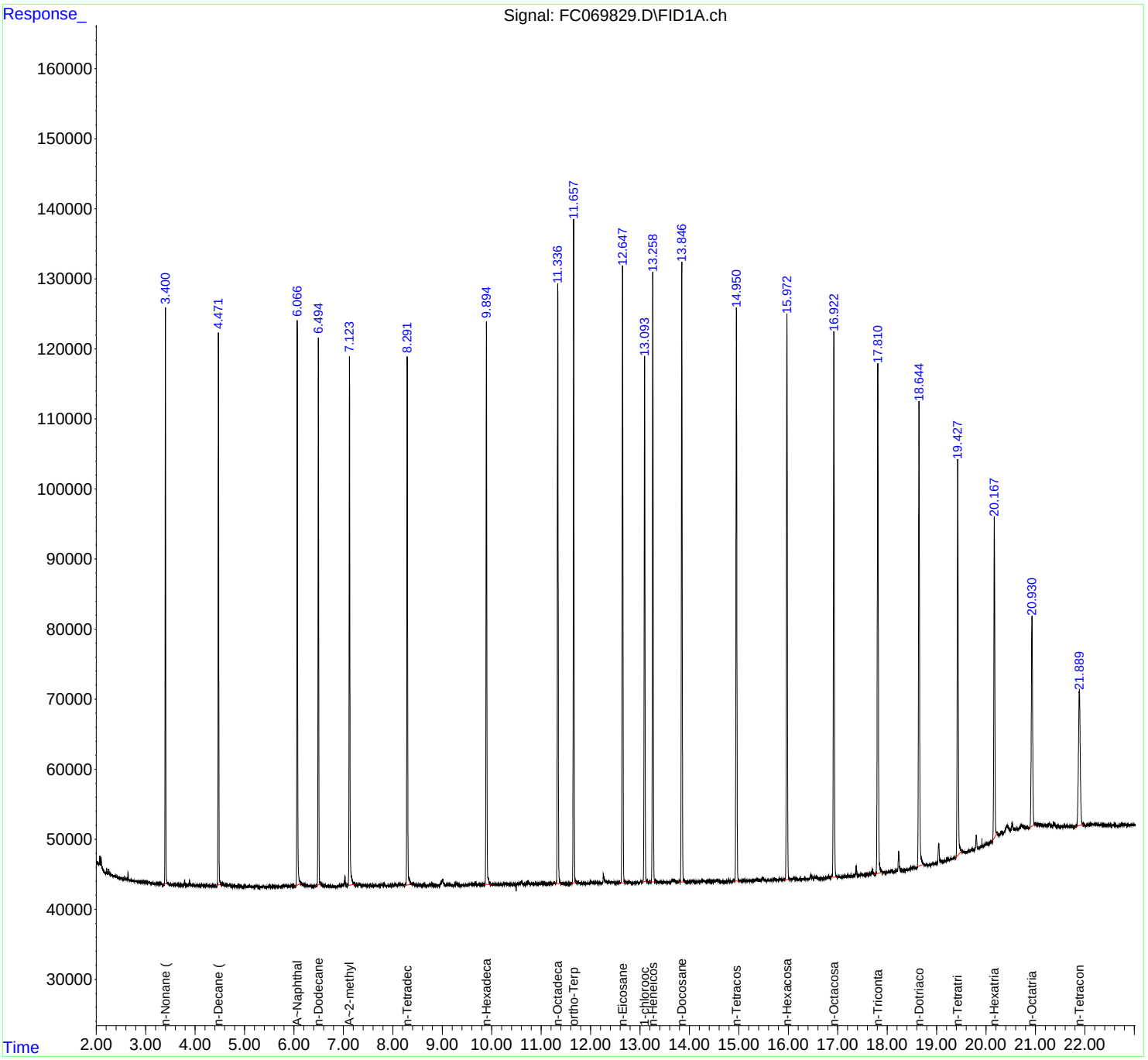
(f)=RT Delta > 1/2 Window (m)=manual int.

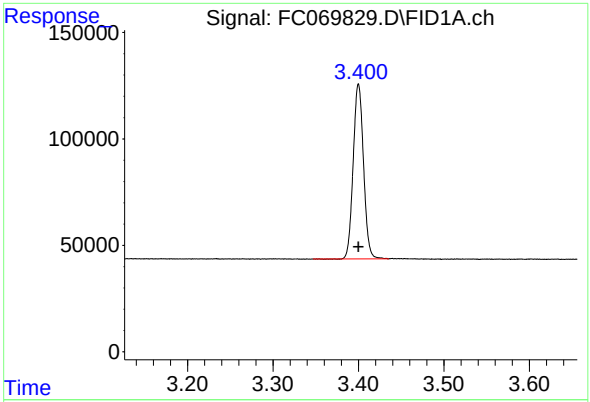
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069829.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 13:33
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

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

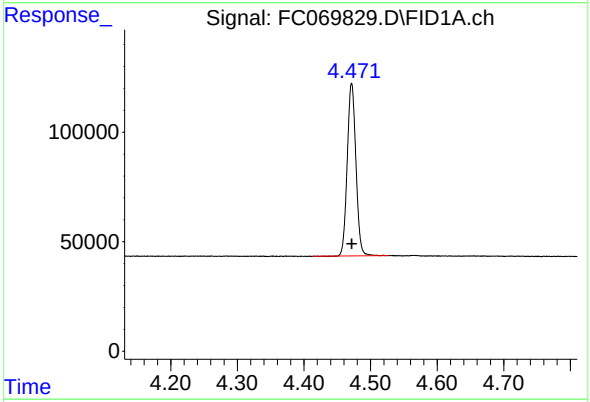




#1 n-Nonane (C9)

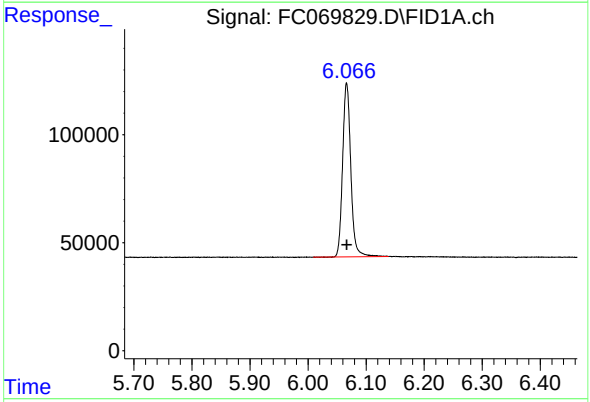
R.T.: 3.400 min
Delta R.T.: 0.000 min
Response: 690670
Conc: 5.39 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



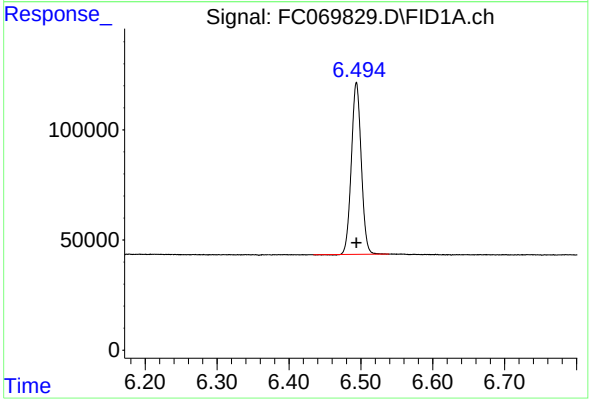
#2 n-Decane (C10)

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



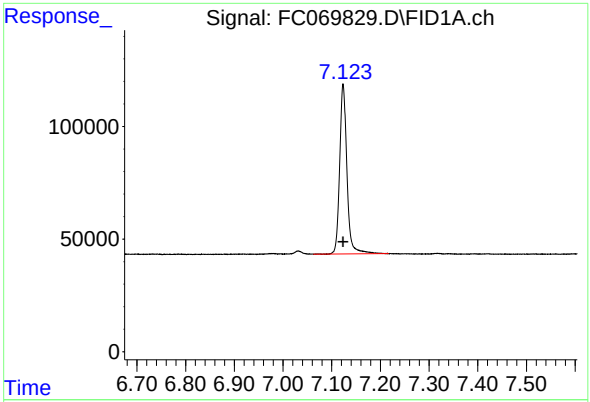
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

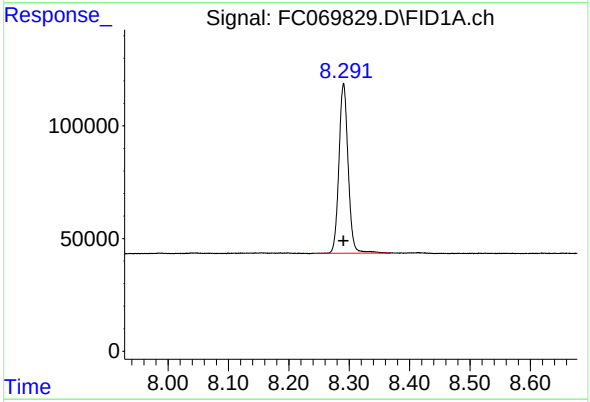
R.T.: 6.494 min
Delta R.T.: 0.000 min
Response: 745101
Conc: 5.34 ug/ml



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

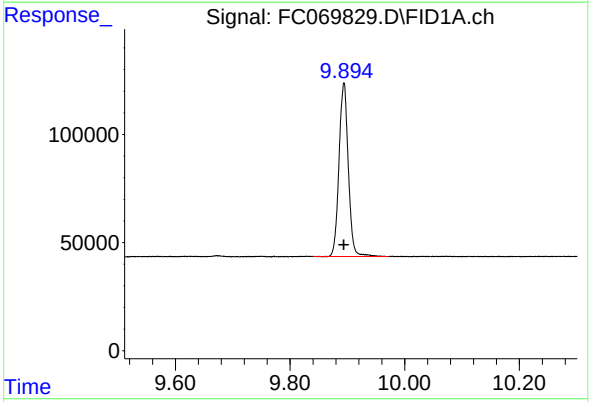
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 780078
Conc: 5.28 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



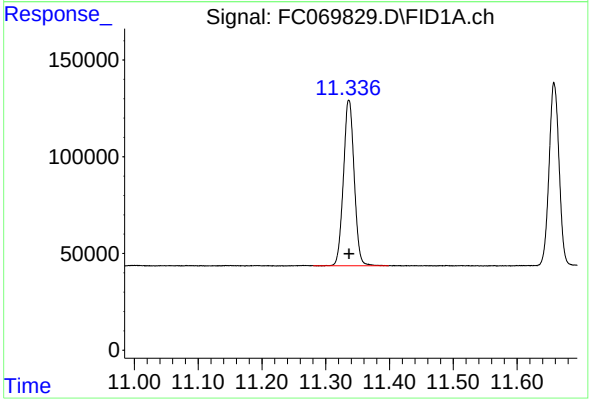
#6 n-Tetradecane (C14)

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



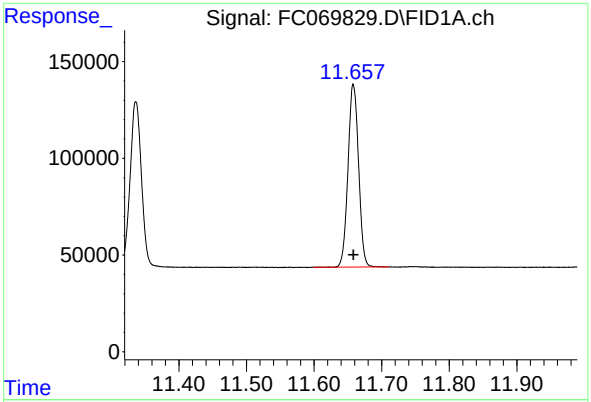
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

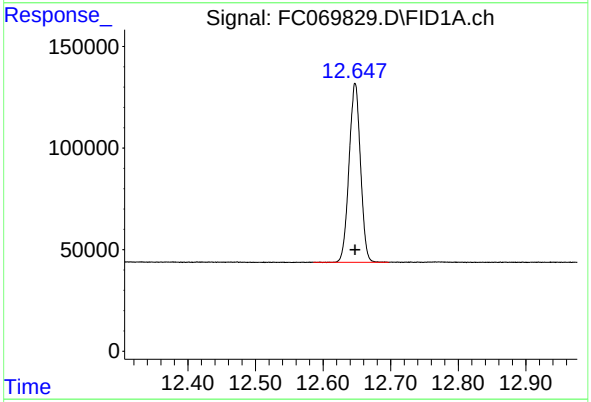
R.T.: 11.336 min
Delta R.T.: 0.000 min
Response: 1003305
Conc: 5.63 ug/ml



#9 ortho-Terphenyl (SURR)

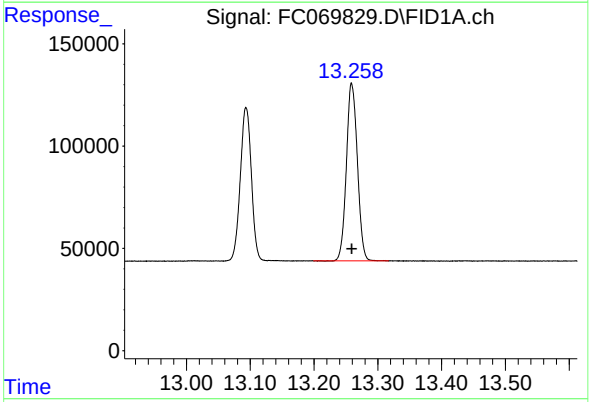
R.T.: 11.658 min
Delta R.T.: 0.000 min
Response: 1026900
Conc: 5.48 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



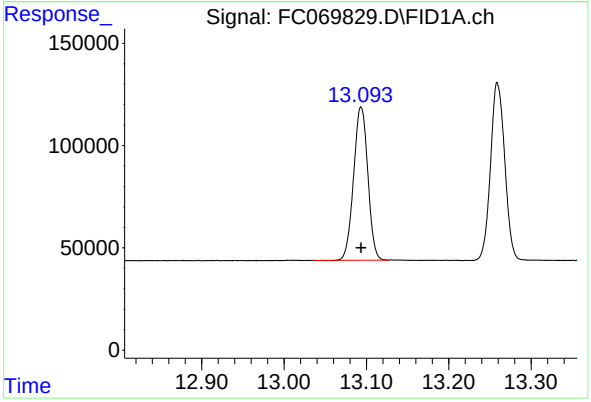
#10 n-Eicosane (C20)

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



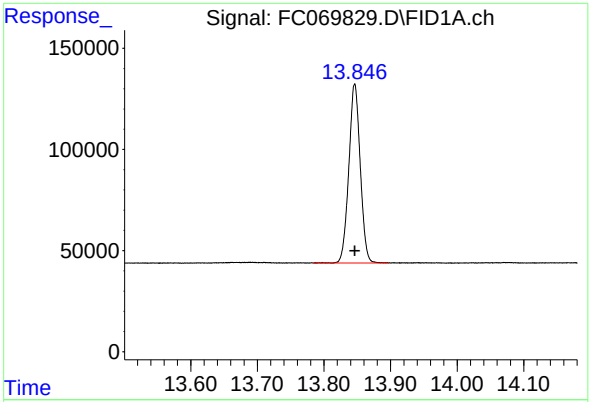
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

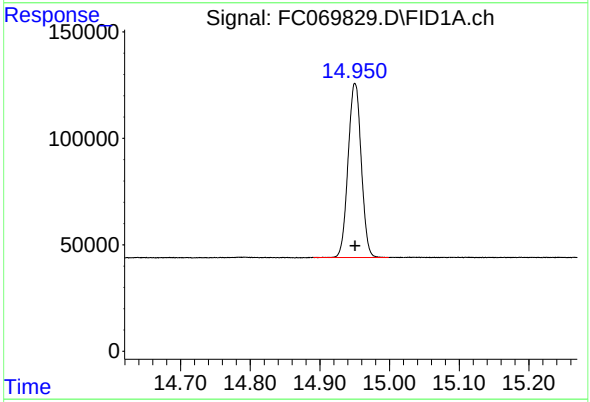
R.T.: 13.094 min
Delta R.T.: 0.000 min
Response: 900913
Conc: 5.70 ug/ml



#13 n-Docosane (C22)

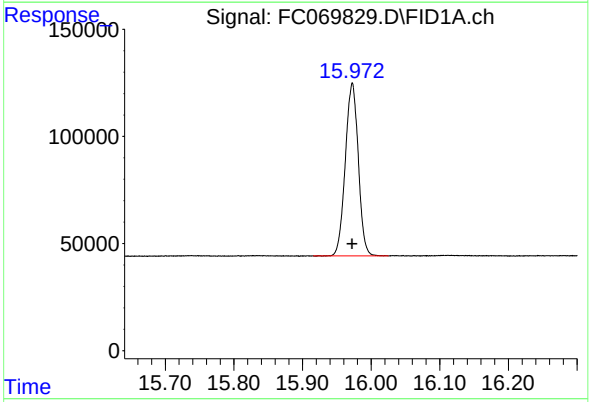
R.T.: 13.846 min
Delta R.T.: 0.000 min
Response: 1053142
Conc: 5.80 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



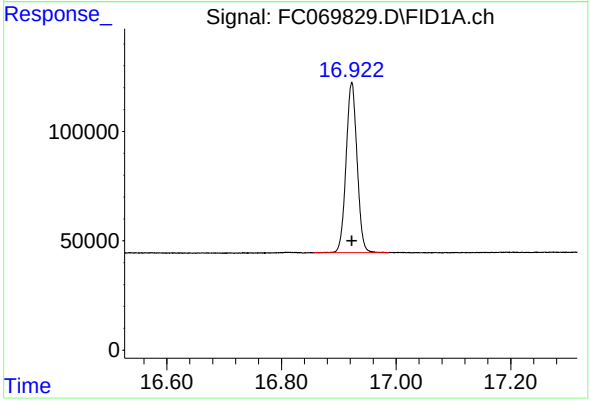
#14 n-Tetracosane (C24)

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



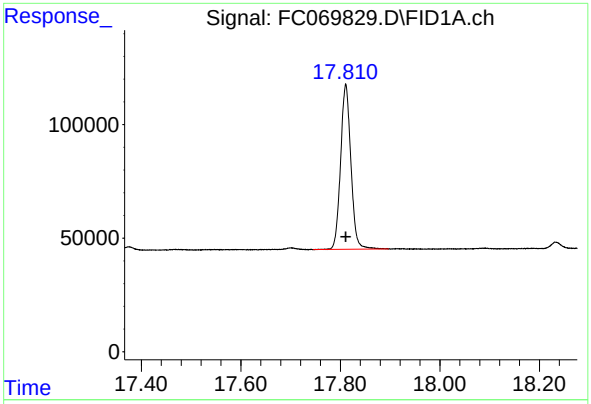
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

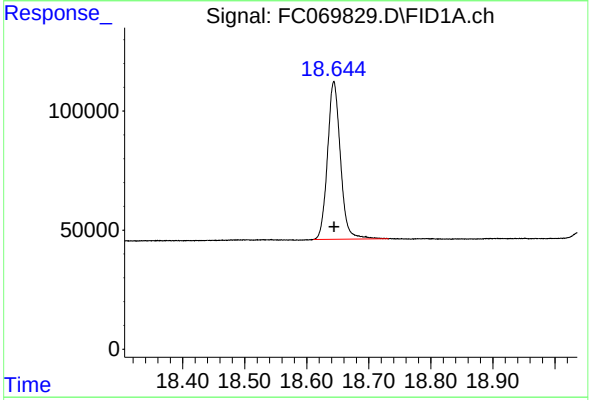
R.T.: 16.923 min
Delta R.T.: 0.000 min
Response: 1036040
Conc: 5.87 ug/ml



#17 n-Tricontane (C30)

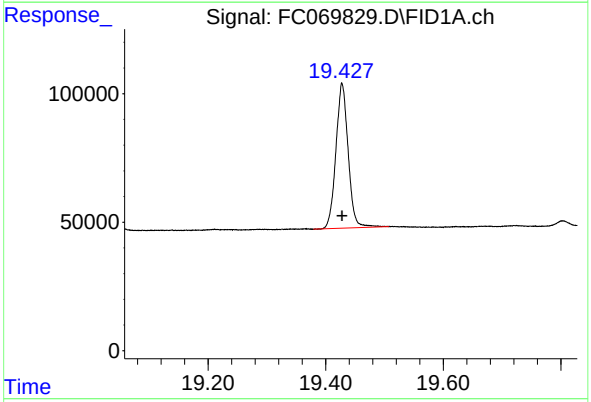
R.T.: 17.811 min
Delta R.T.: 0.000 min
Response: 1040062
Conc: 5.94 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



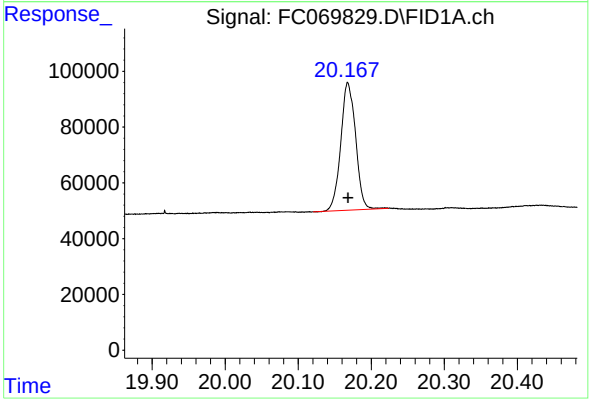
#18 n-Dotriacontane (C32)

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



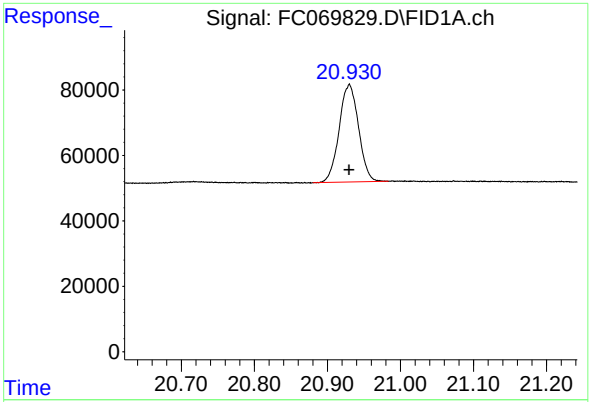
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

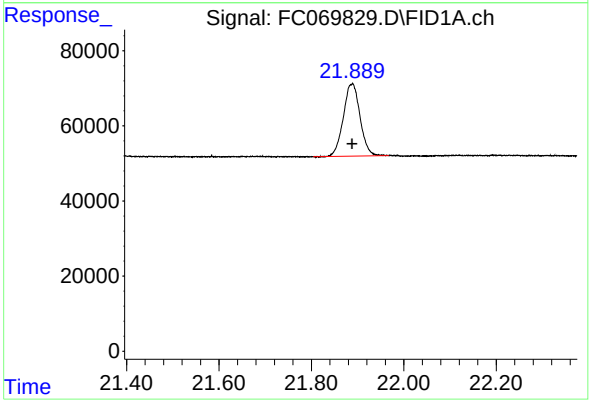
R.T.: 20.168 min
Delta R.T.: 0.000 min
Response: 645568
Conc: 5.72 ug/ml



#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

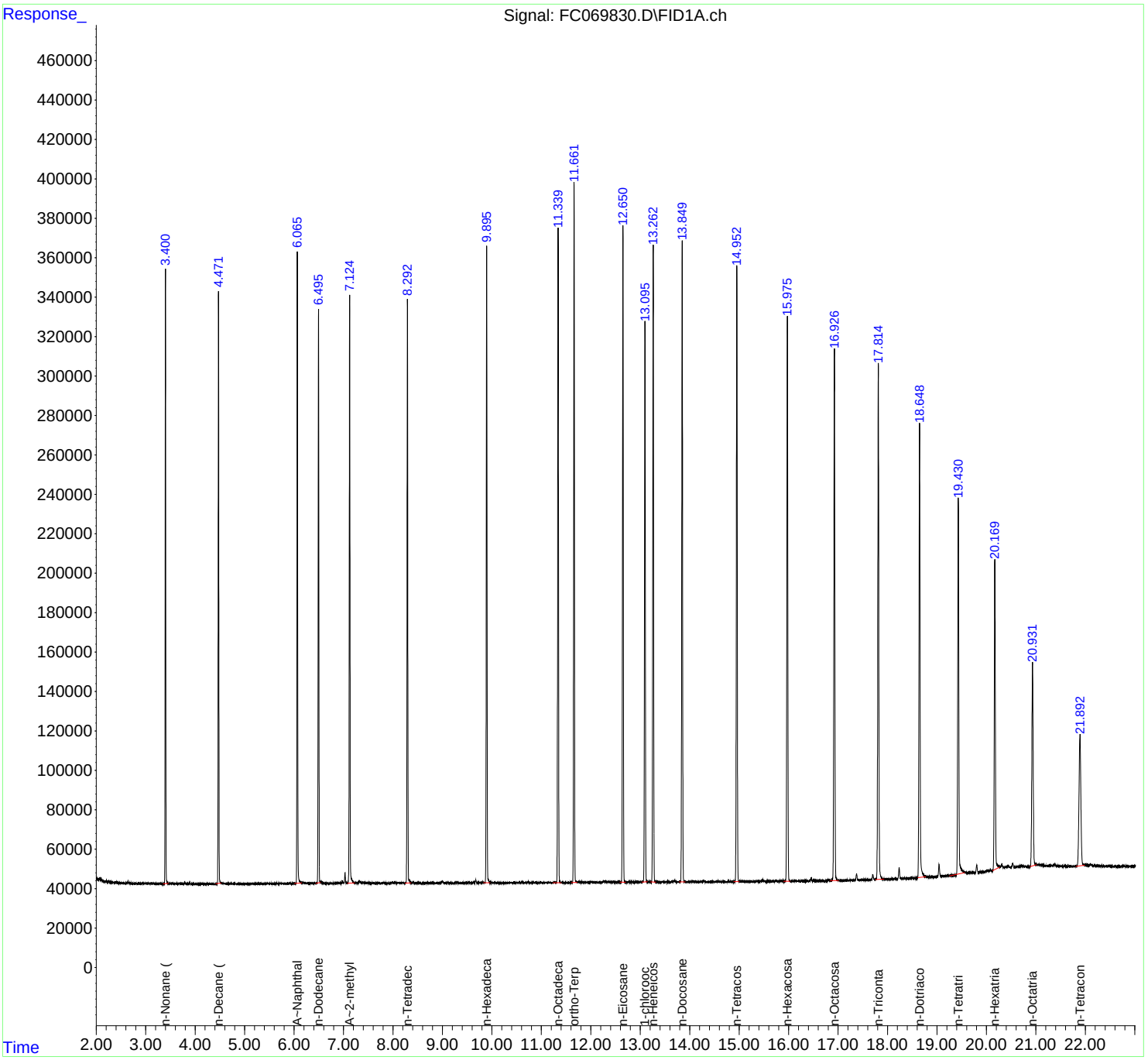
(f)=RT Delta > 1/2 Window (m)=manual int.

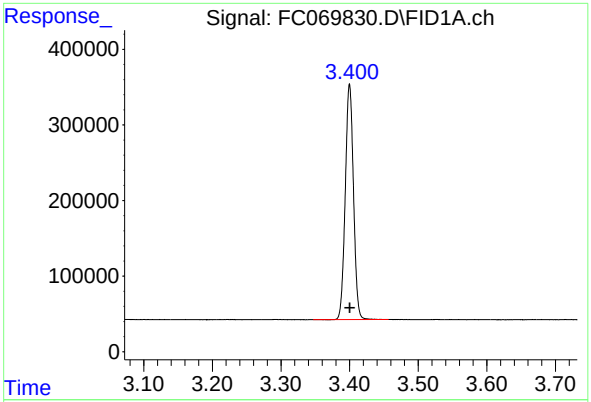
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069830.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 14:19
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

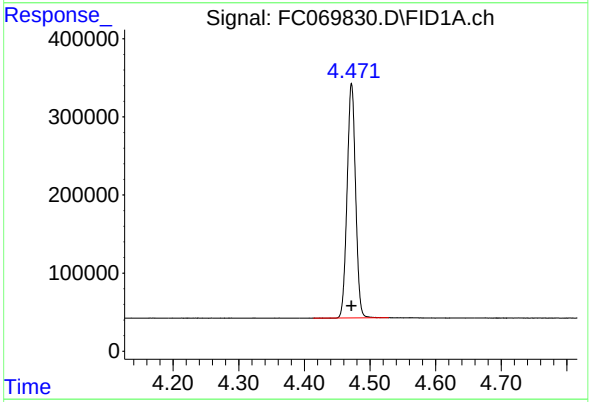




#1 n-Nonane (C9)

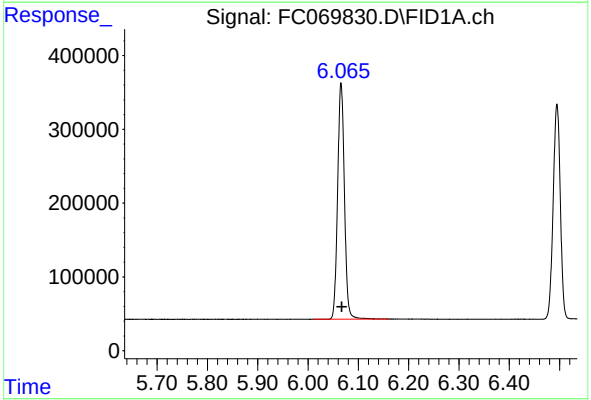
R.T.: 3.400 min
Delta R.T.: 0.000 min
Response: 2587945
Conc: 20.19 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



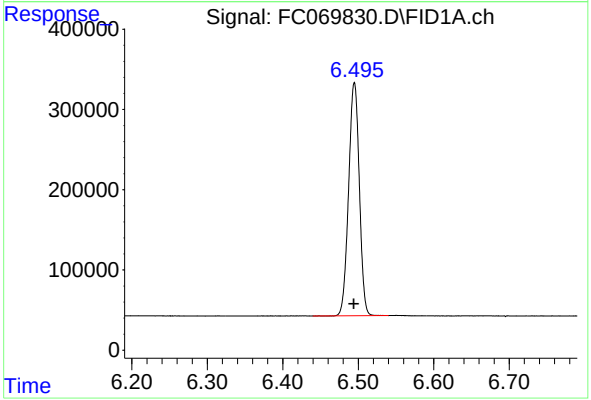
#2 n-Decane (C10)

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



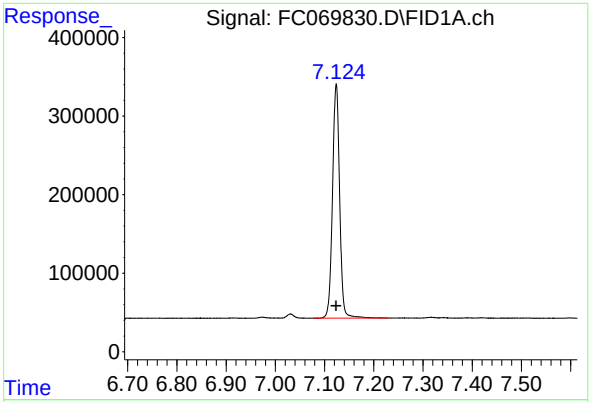
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

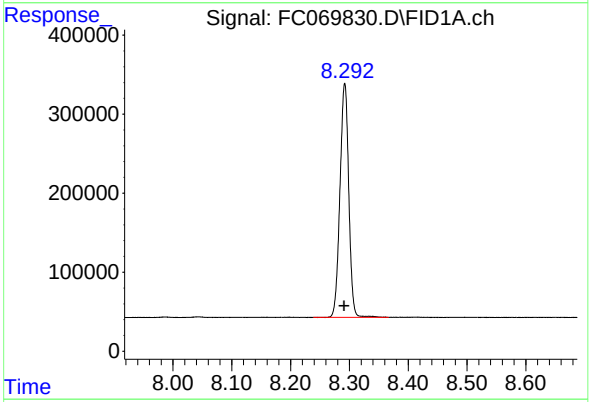
R.T.: 6.495 min
Delta R.T.: 0.000 min
Response: 2862396
Conc: 20.52 ug/ml



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

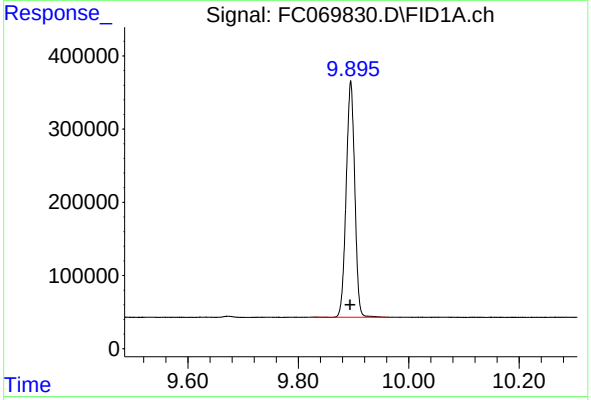
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 3005230
Conc: 20.35 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



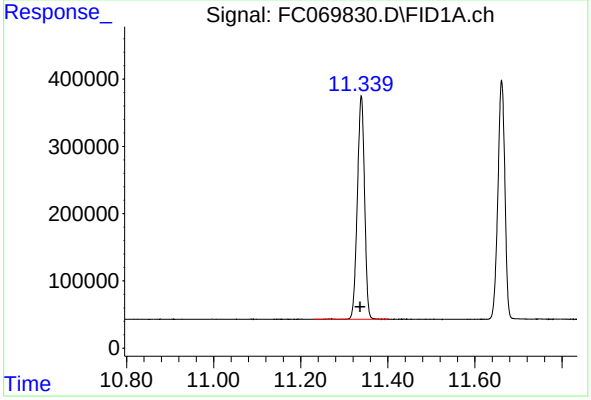
#6 n-Tetradecane (C14)

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



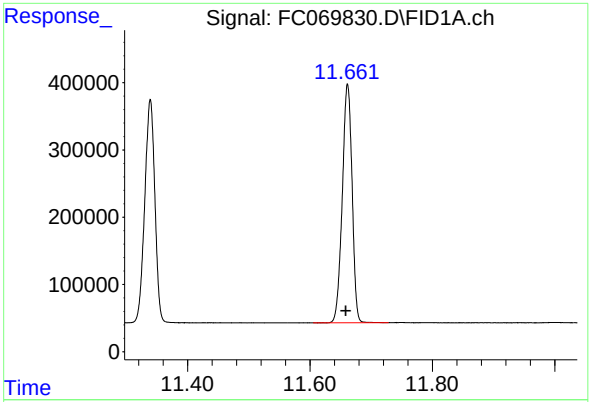
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

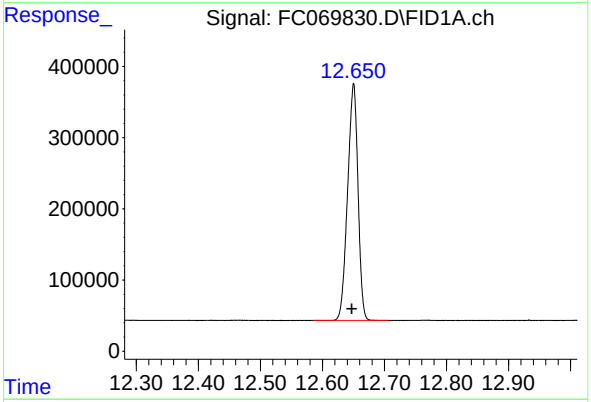
R.T.: 11.339 min
Delta R.T.: 0.003 min
Response: 3824558
Conc: 21.46 ug/ml



#9 ortho-Terphenyl (SURR)

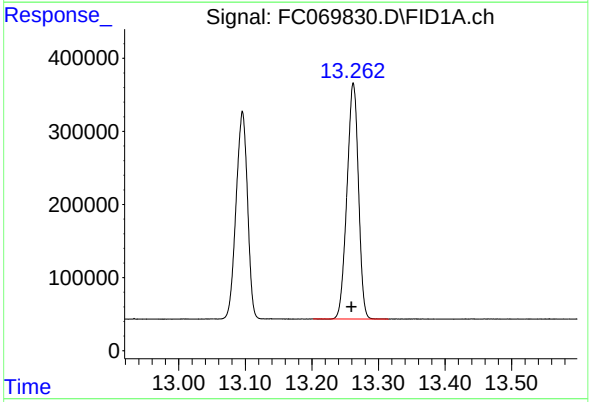
R.T.: 11.662 min
Delta R.T.: 0.003 min
Response: 3944296
Conc: 21.06 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



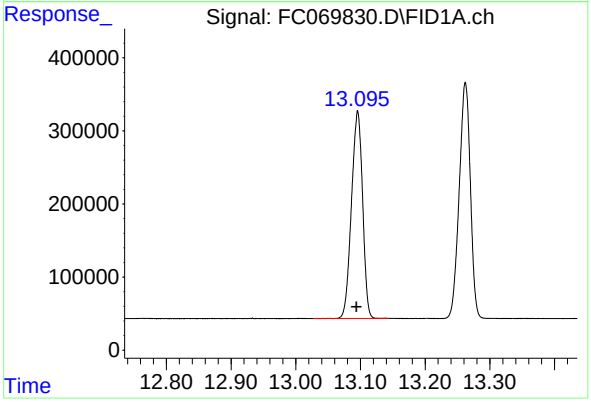
#10 n-Eicosane (C20)

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



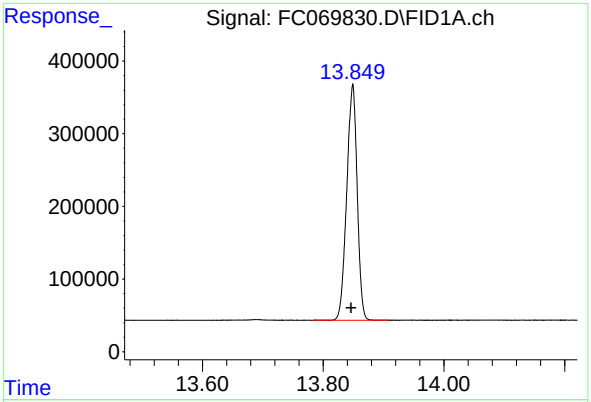
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

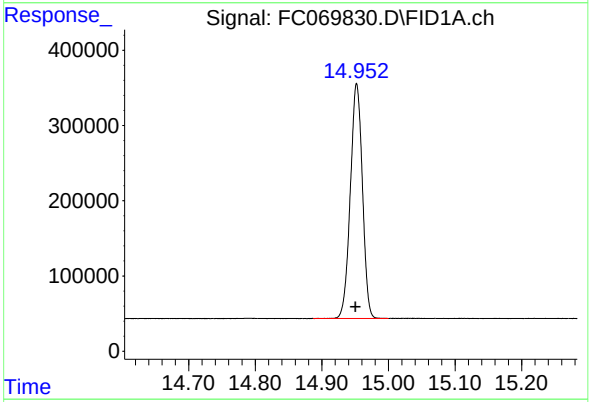
R.T.: 13.096 min
Delta R.T.: 0.002 min
Response: 3385642
Conc: 21.44 ug/ml



#13 n-Docosane (C22)

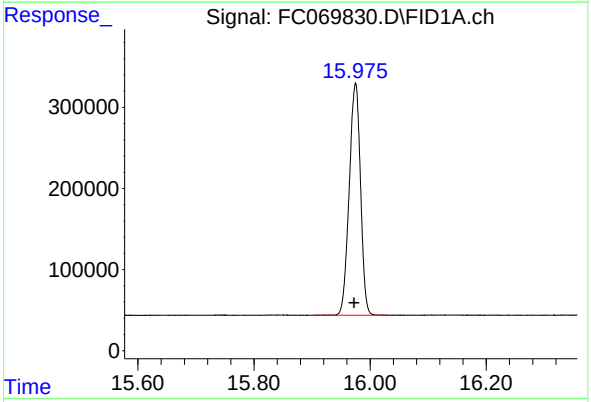
R.T.: 13.849 min
Delta R.T.: 0.002 min
Response: 3899823
Conc: 21.47 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



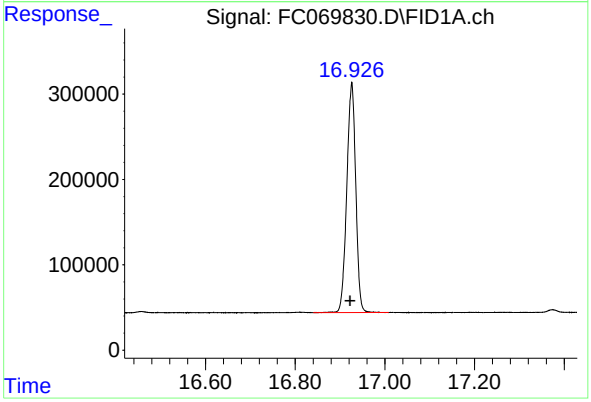
#14 n-Tetracosane (C24)

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



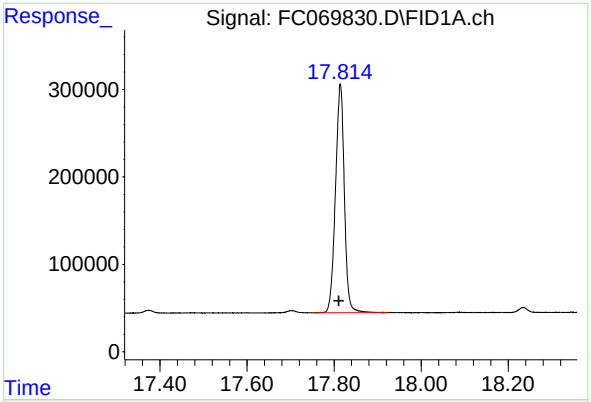
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

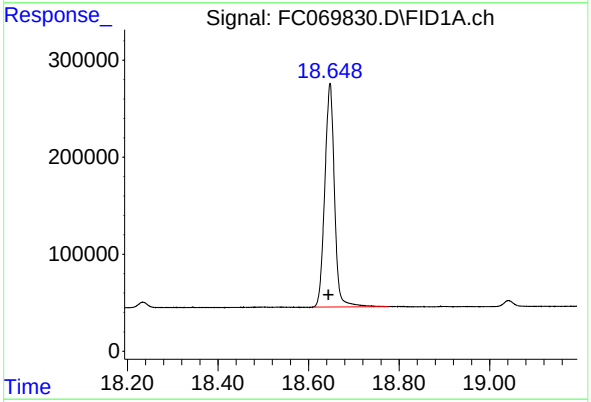
R.T.: 16.926 min
Delta R.T.: 0.003 min
Response: 3741360
Conc: 21.19 ug/ml



#17 n-Tricontane (C30)

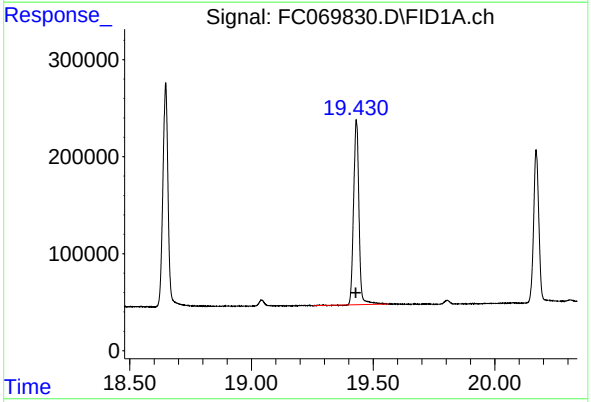
R.T.: 17.814 min
Delta R.T.: 0.003 min
Response: 3698274
Conc: 21.13 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



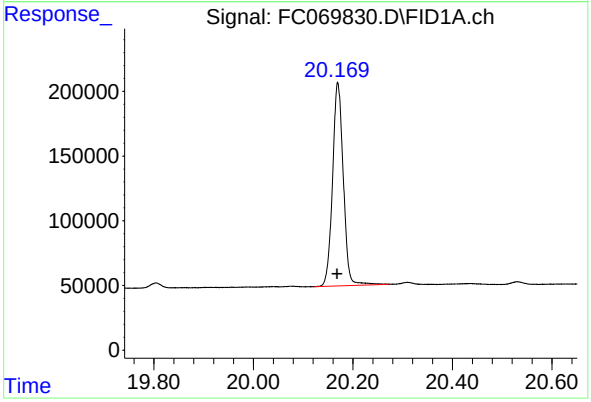
#18 n-Dotriacontane (C32)

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



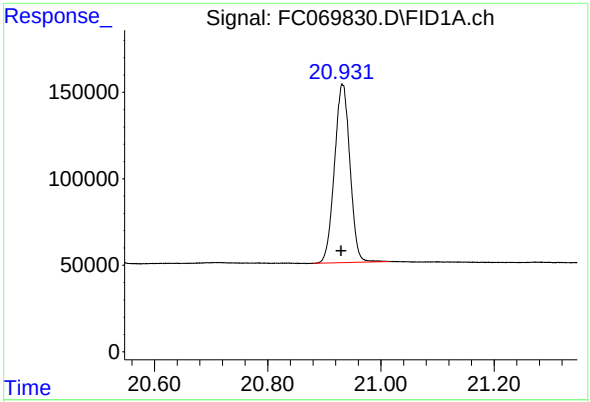
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

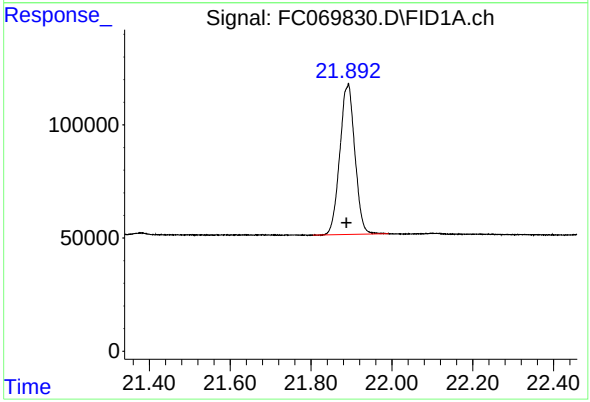
R.T.: 20.170 min
Delta R.T.: 0.001 min
Response: 2353381
Conc: 20.84 ug/ml



#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

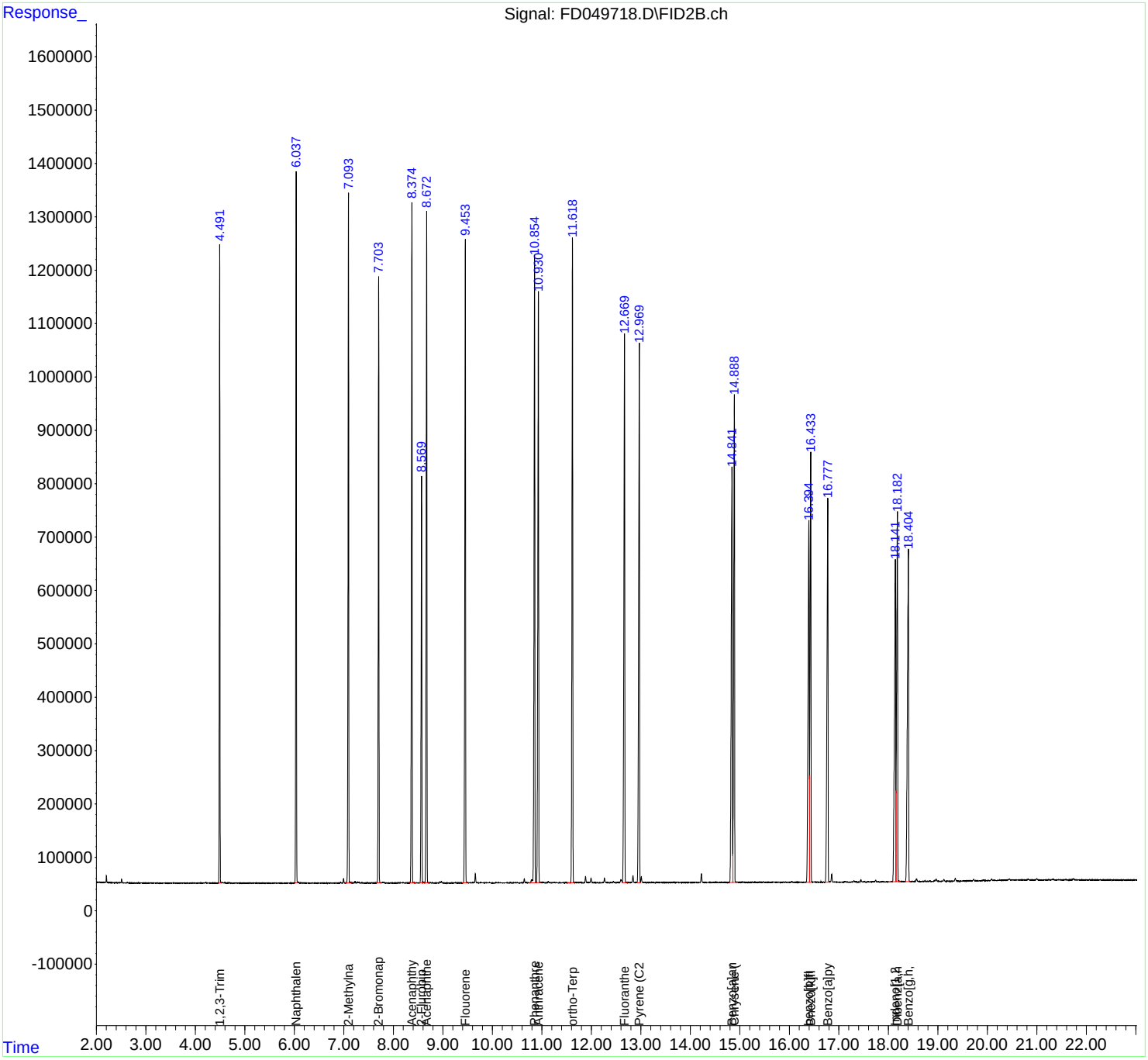
Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

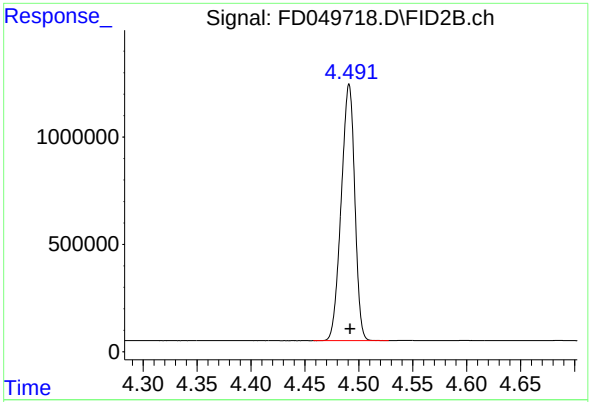
Manual Integrations APPROVED

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





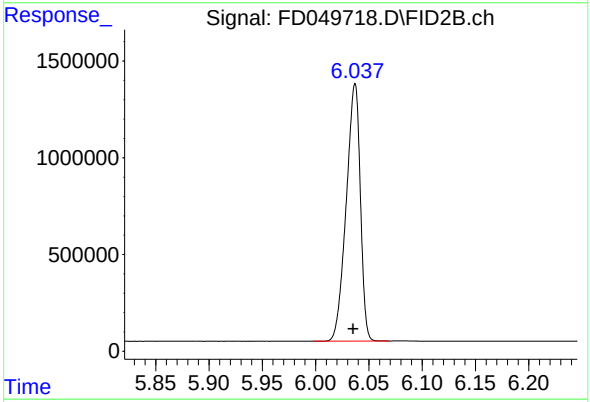
#1 1,2,3-Trimethylbenzene (C10.1)

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

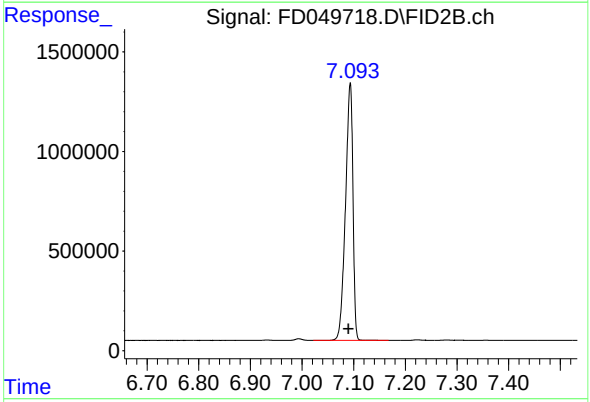
Manual Integrations APPROVED

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



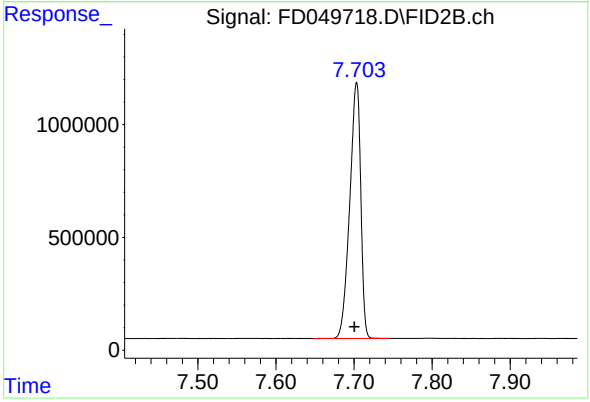
#2 Naphthalene (C11.7)

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



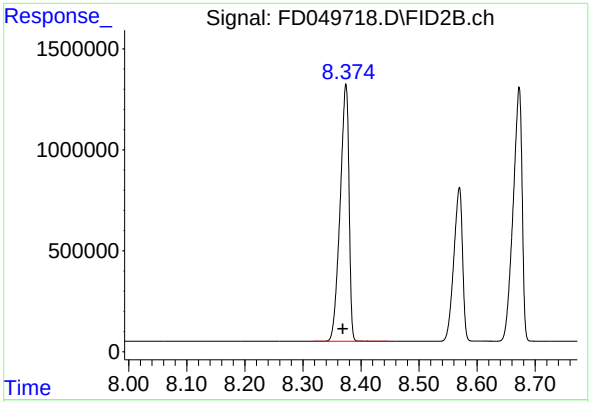
#3 2-Methylnaphthalene (C12.89)

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



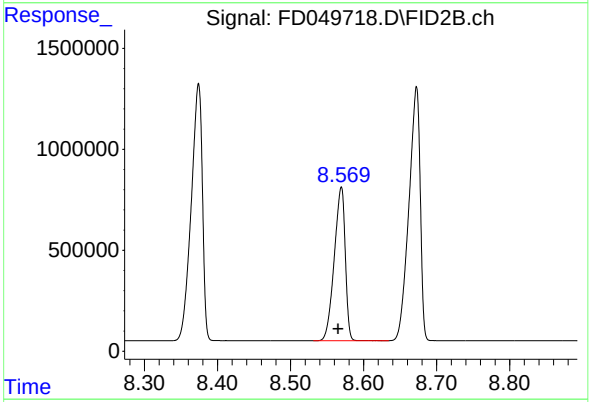
#5 Acenaphthylene (C15.06)

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

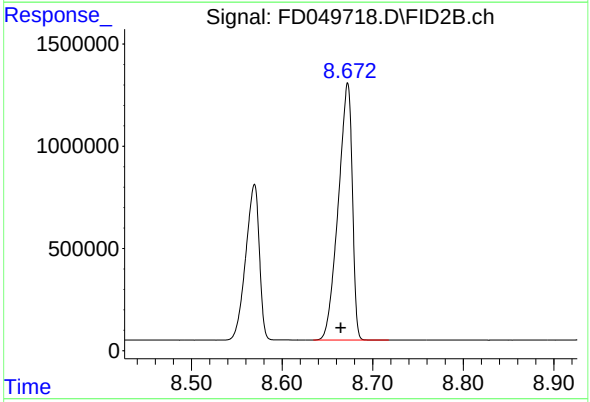
Manual Integrations
APPROVED

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



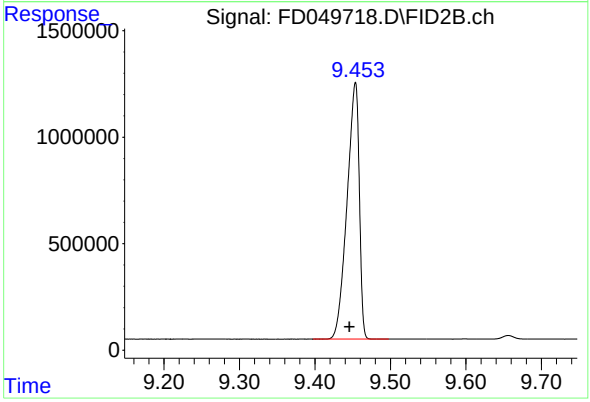
#6 2-Flurobiphenyl (SURR)

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



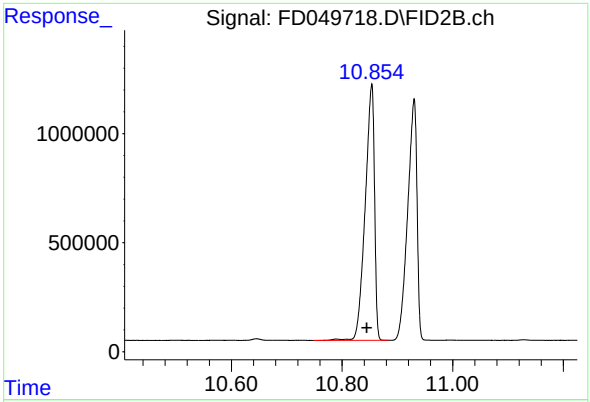
#7 Acenaphthene (C15.5)

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



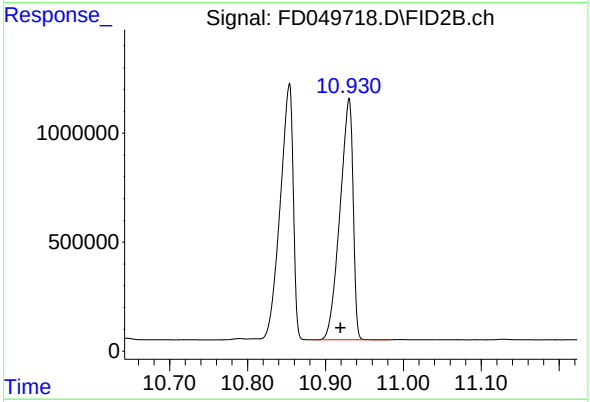
#9 Phenanthrene (C19.36)

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

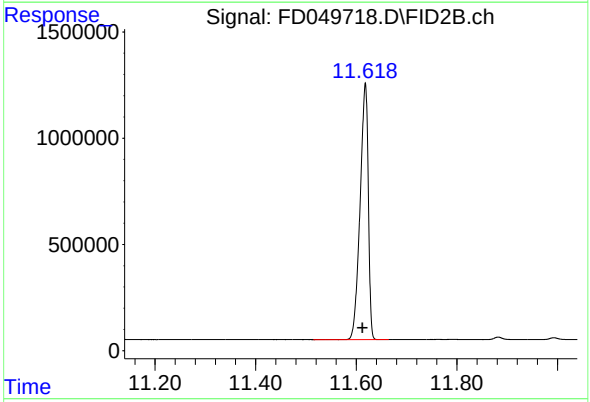
Manual Integrations APPROVED

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



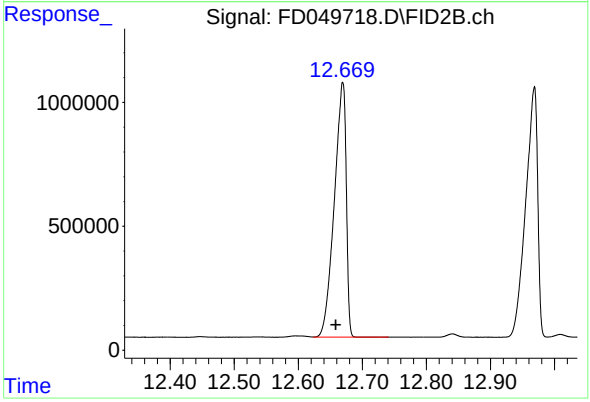
#10 Anthracene (C19.43)

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



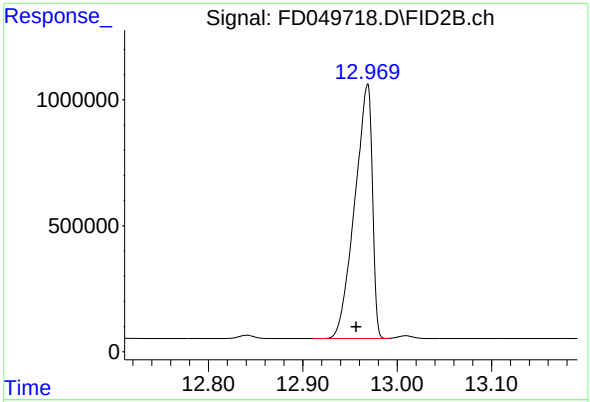
#11 ortho-Terphenyl (SURR)

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



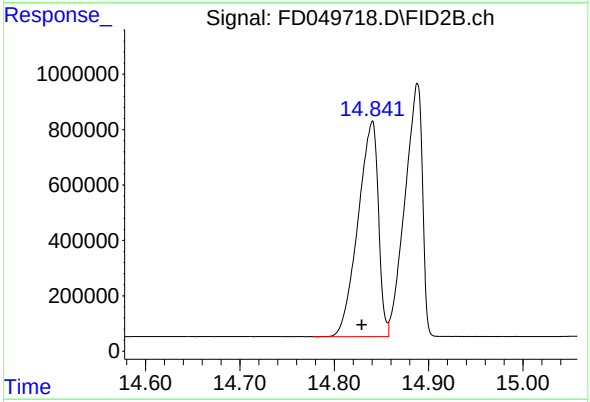
#13 Pyrene (C20.8)

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

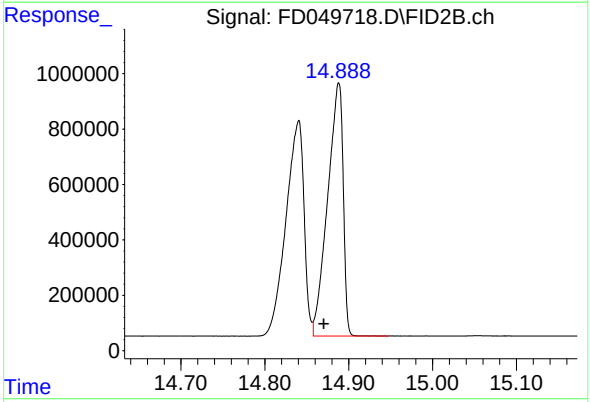
Manual Integrations
APPROVED

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



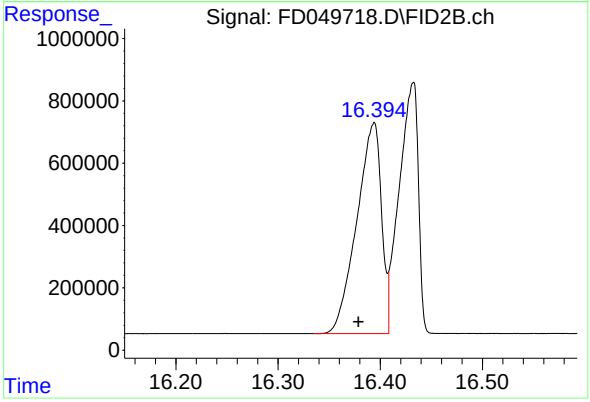
#14 Benzo[a]anthracene (C26.37)

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



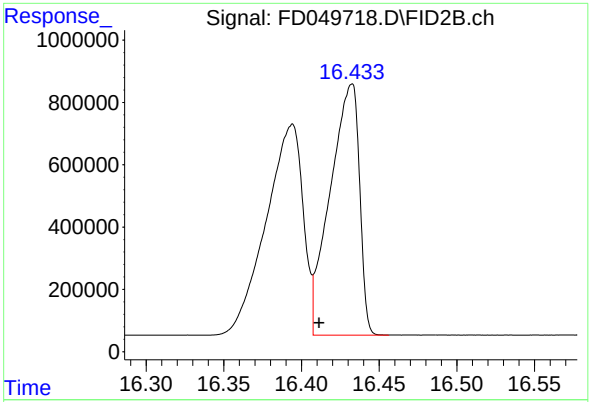
#15 Chrysene (C27.41)

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



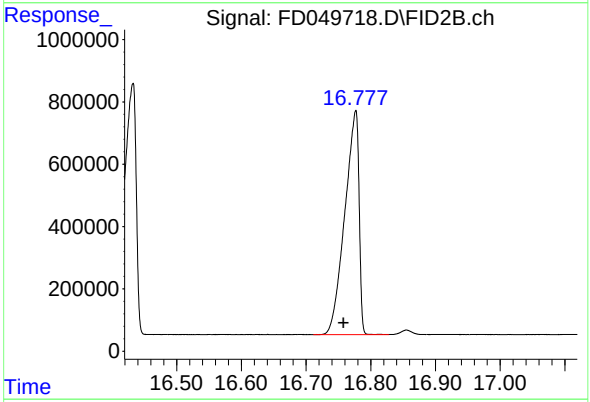
#17 Bnezo[k]fluoranthene (C30.14)

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

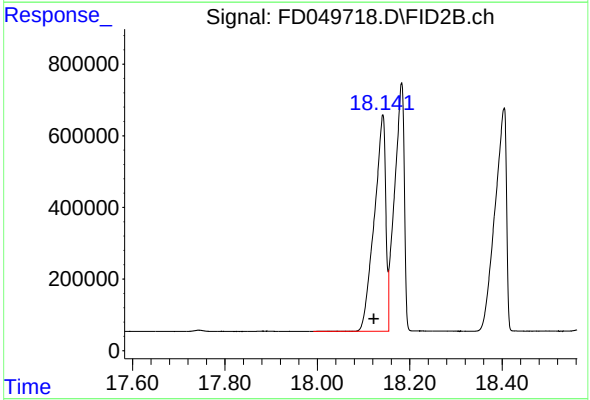
Manual Integrations
APPROVED

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



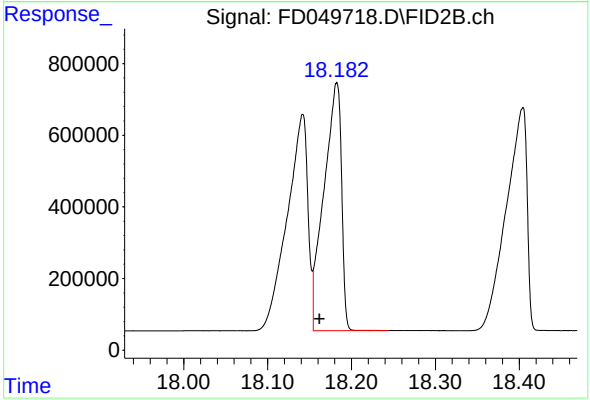
#18 Benzo[a]pyrene (C31.34)

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



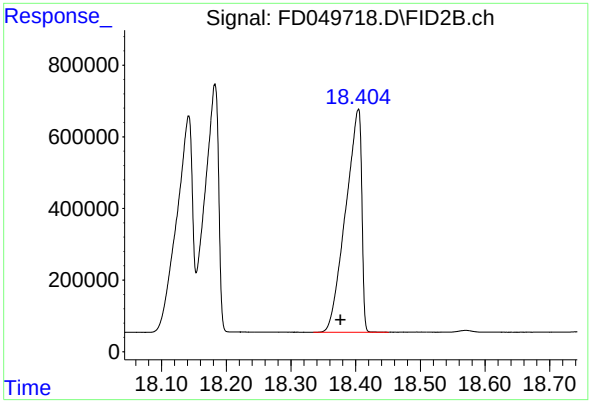
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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.

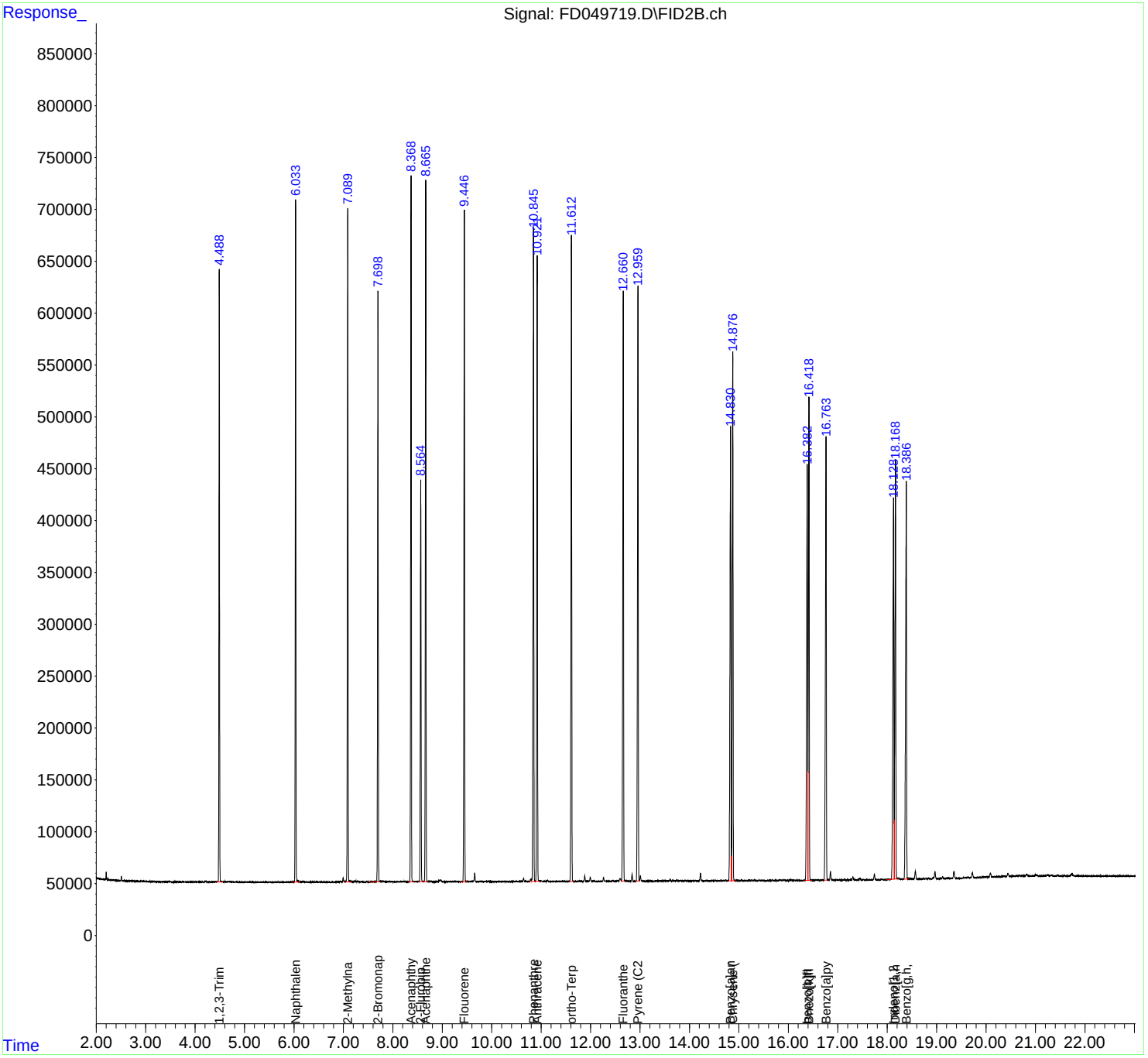
Quantitation Report (QT Reviewed)

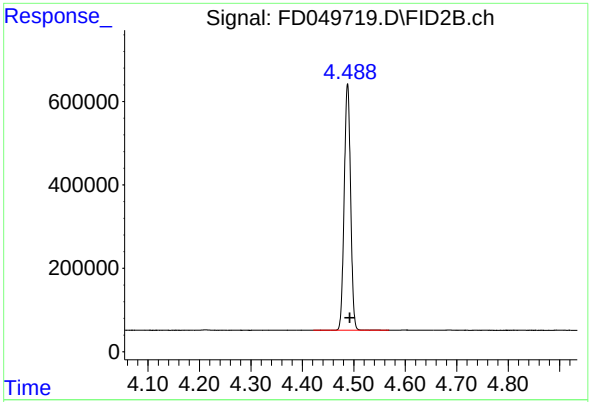
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049719.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 10:16
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

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

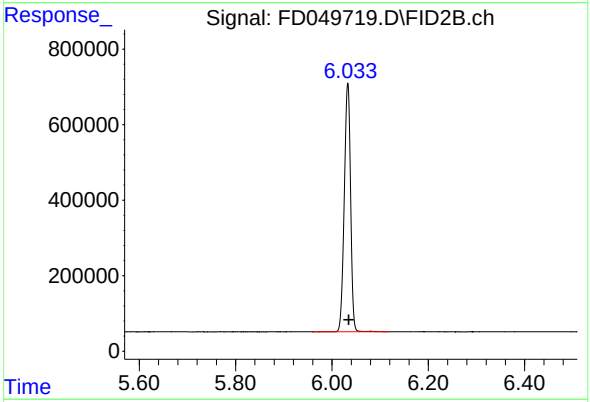




#1 1,2,3-Trimethylbenzene (C10.1)

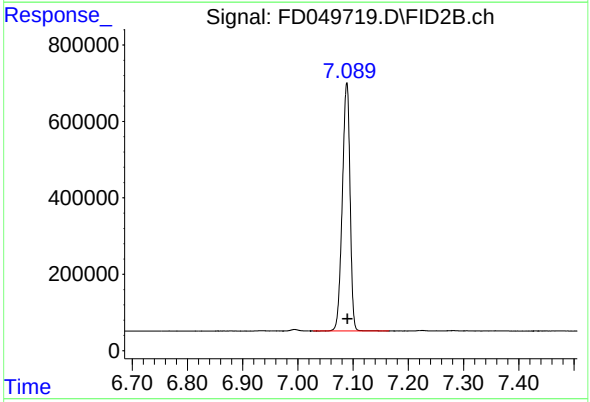
R.T.: 4.488 min
Delta R.T.: -0.004 min
Response: 5097348
Conc: 47.36 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



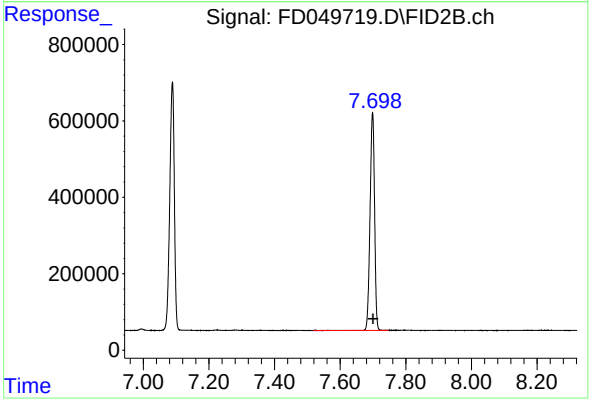
#2 Naphthalene (C11.7)

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



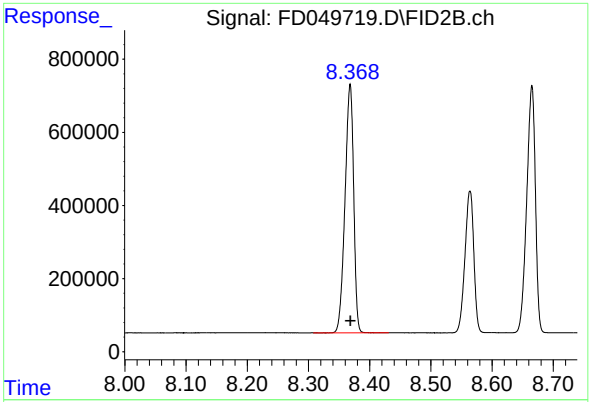
#3 2-Methylnaphthalene (C12.89)

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



#4 2-Bromonaphthalene (SURR)

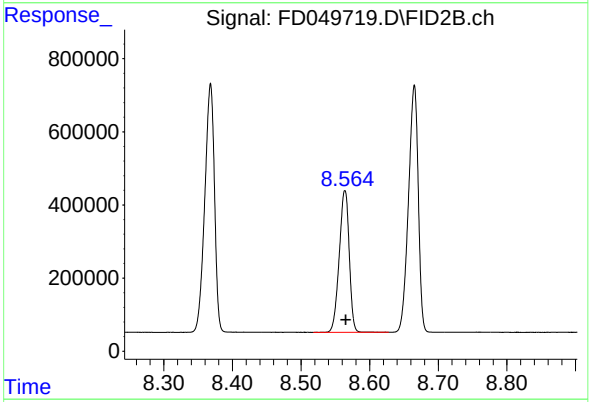
R.T.: 7.699 min
Delta R.T.: -0.002 min
Response: 5439535
Conc: 48.25 ug/ml



#5 Acenaphthylene (C15.06)

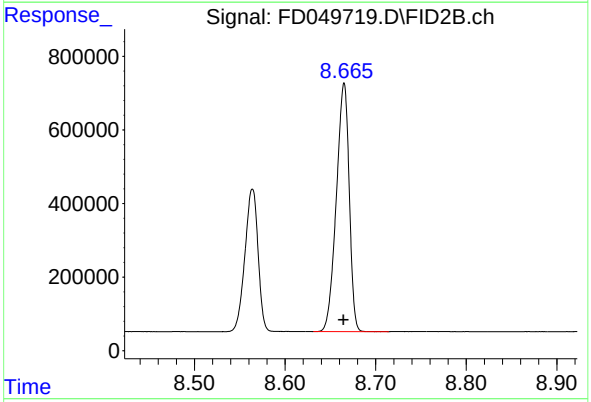
R.T.: 8.368 min
Delta R.T.: 0.000 min
Response: 6676398
Conc: 47.87 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



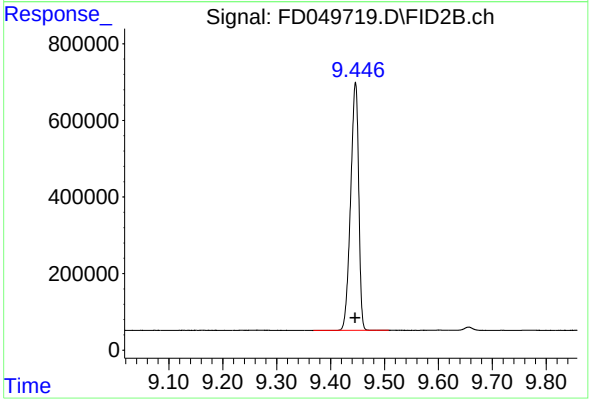
#6 2-Flurobiphenyl (SURR)

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



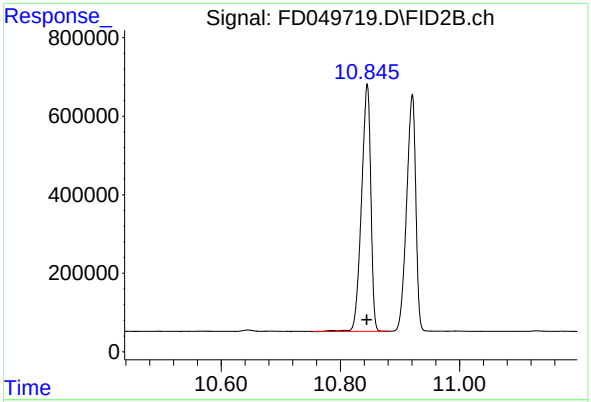
#7 Acenaphthene (C15.5)

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



#8 Flouorene (C16.55)

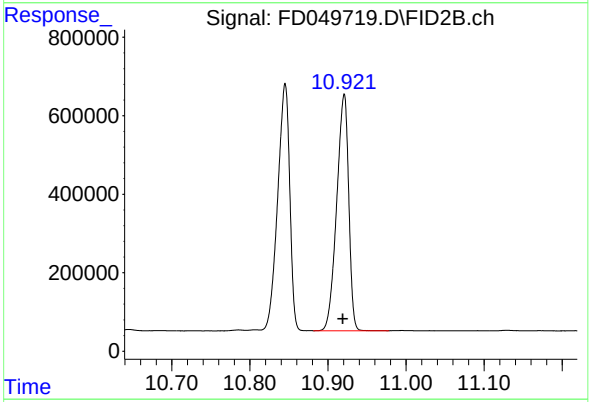
R.T.: 9.446 min
Delta R.T.: 0.000 min
Response: 6718389
Conc: 47.91 ug/ml



#9 Phenanthrene (C19.36)

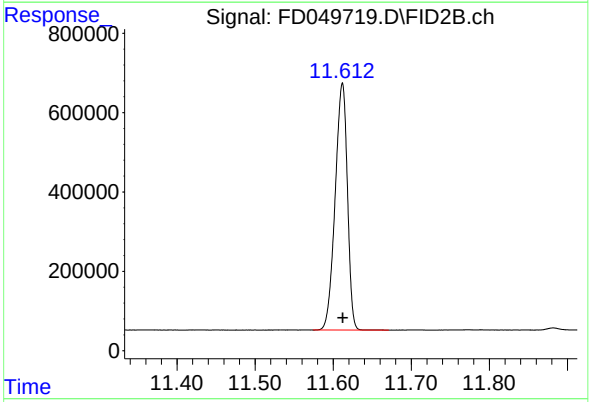
R.T.: 10.845 min
Delta R.T.: 0.000 min
Response: 6815270
Conc: 48.01 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



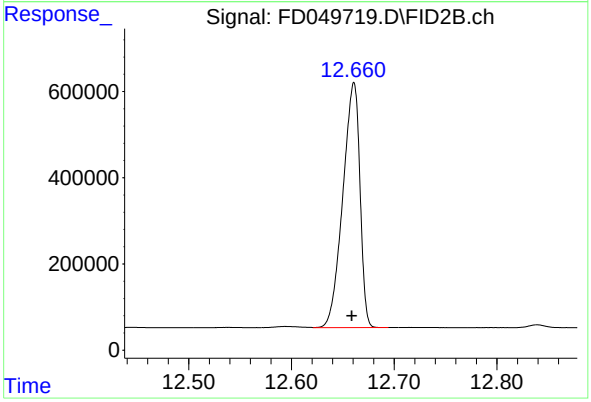
#10 Anthracene (C19.43)

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



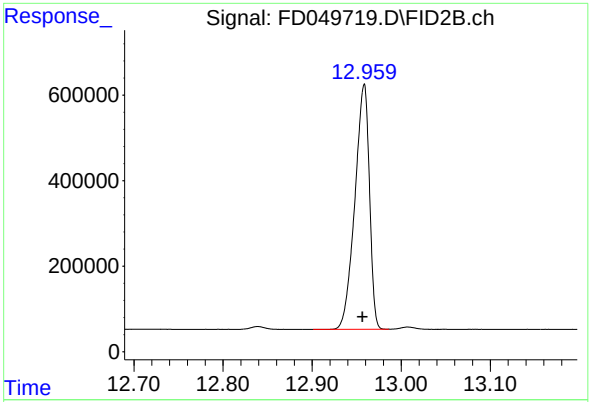
#11 ortho-Terphenyl (SURR)

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



#12 Fluoranthene (C21.85)

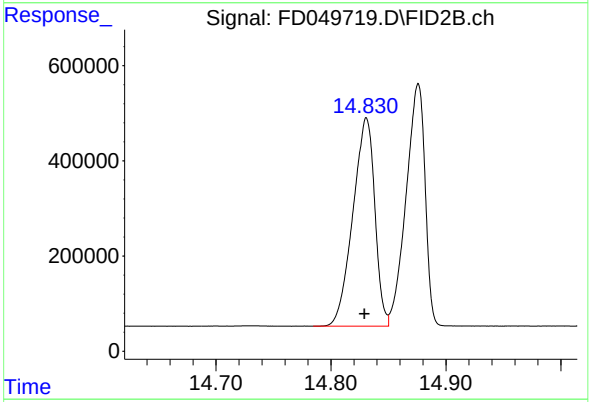
R.T.: 12.660 min
Delta R.T.: 0.002 min
Response: 6577964
Conc: 48.17 ug/ml



#13 Pyrene (C20.8)

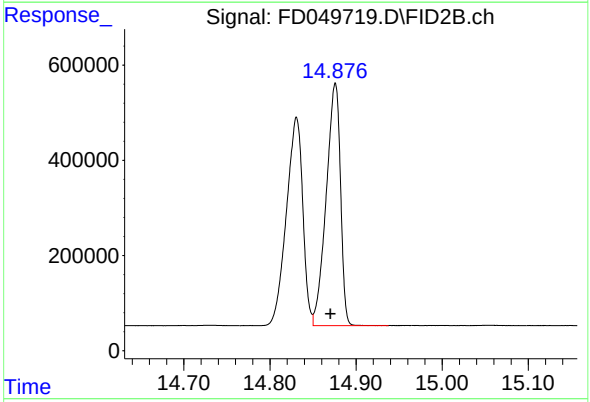
R.T.: 12.958 min
Delta R.T.: 0.001 min
Response: 6507375
Conc: 48.23 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



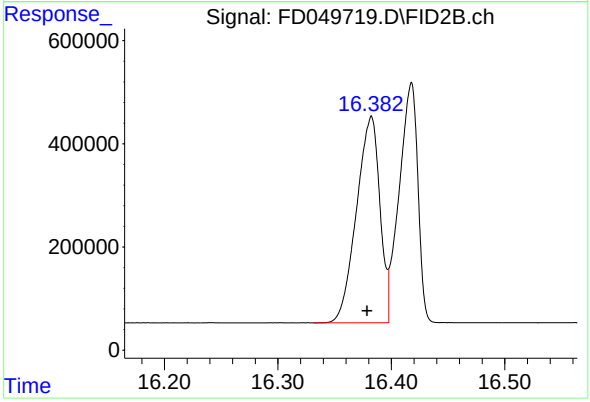
#14 Benzo[a]anthracene (C26.37)

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



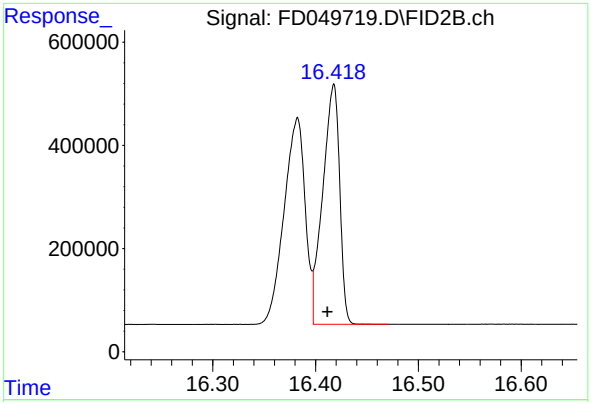
#15 Chrysene (C27.41)

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



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

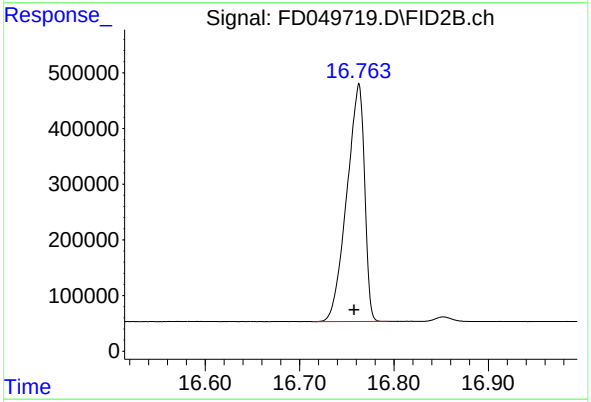
R.T.: 16.382 min
Delta R.T.: 0.003 min
Response: 5727605
Conc: 47.41 ug/ml



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

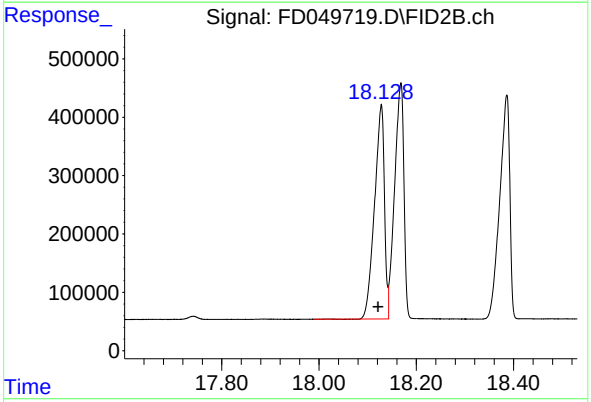
R.T.: 16.417 min
Delta R.T.: 0.006 min
Response: 5322884
Conc: 46.55 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



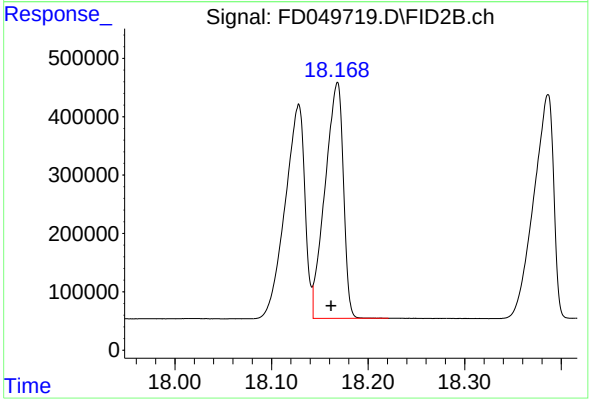
#18 Benzo[a]pyrene (C31.34)

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



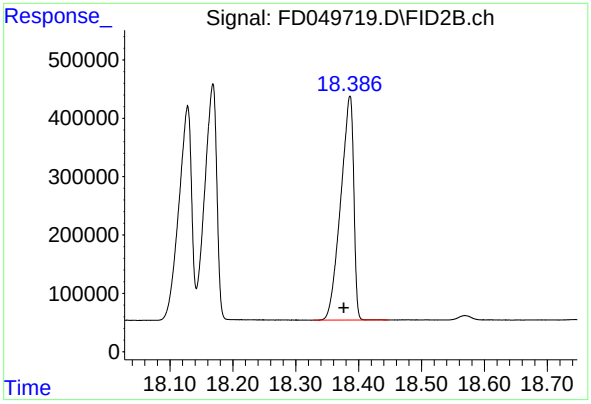
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

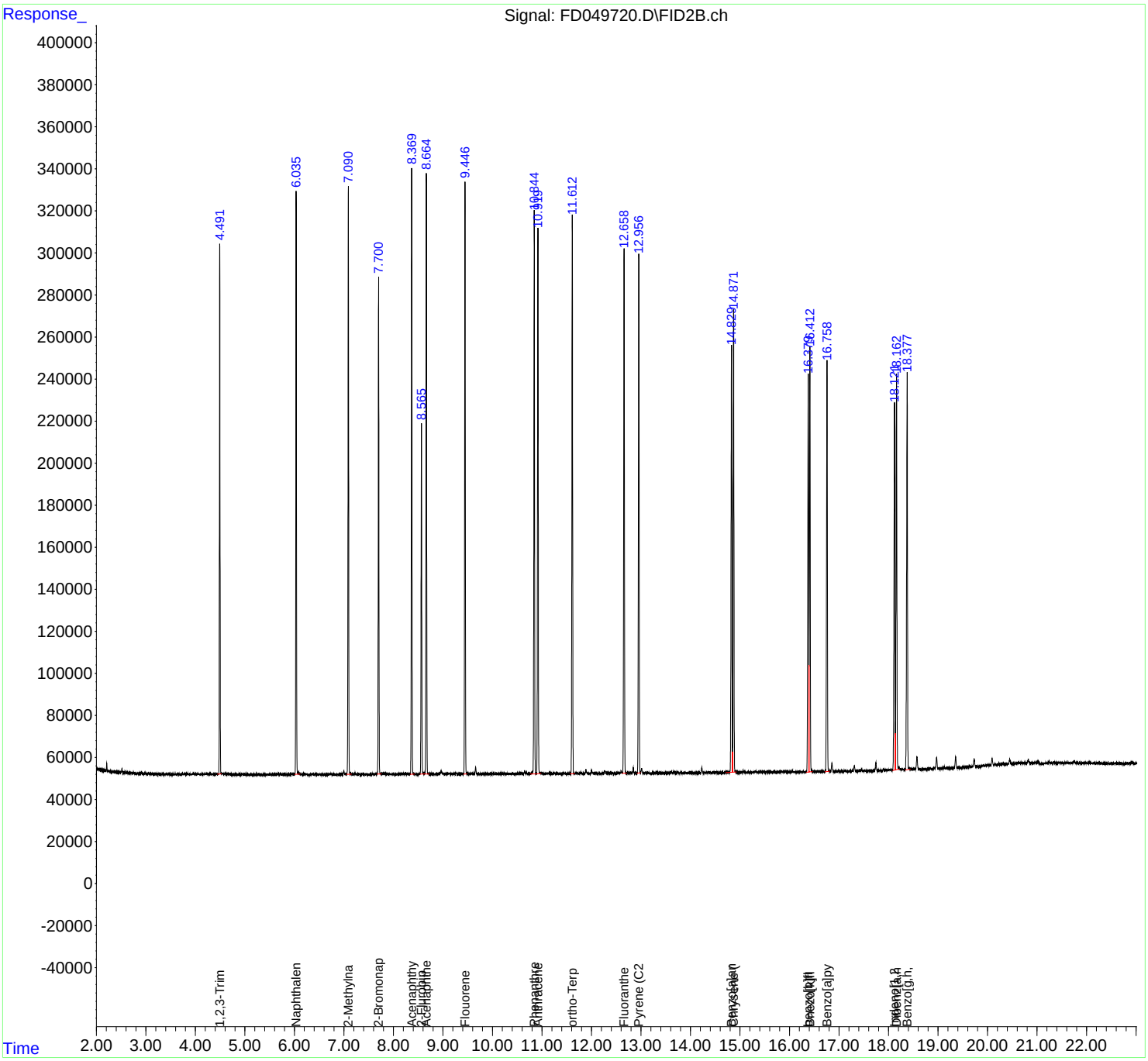
(f)=RT Delta > 1/2 Window (m)=manual int.

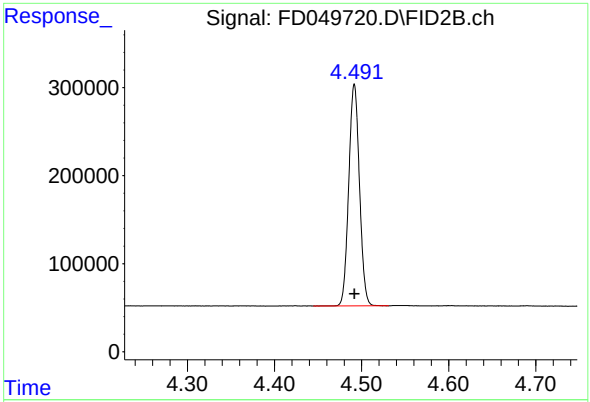
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049720.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 10:56
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

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

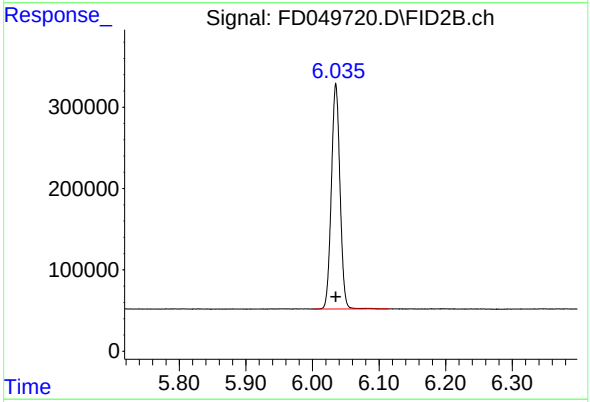




#1 1,2,3-Trimethylbenzene (C10.1)

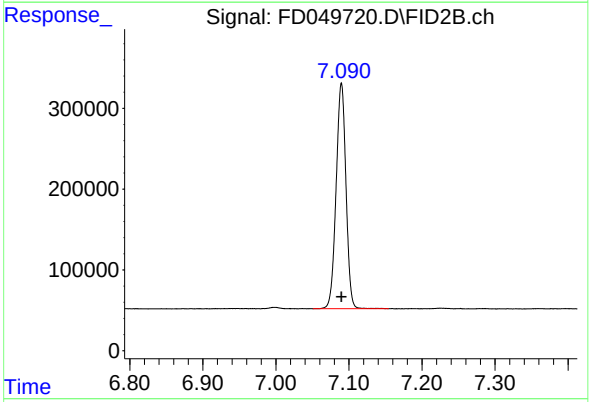
R.T.: 4.492 min
Delta R.T.: 0.000 min
Response: 2152601
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



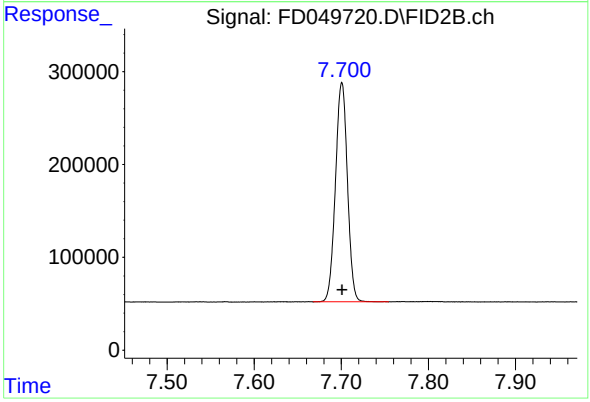
#2 Naphthalene (C11.7)

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



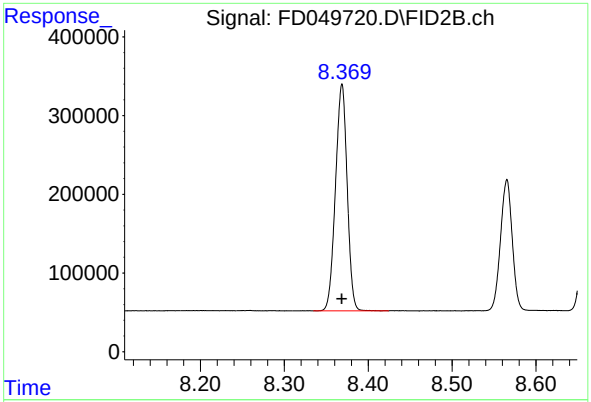
#3 2-Methylnaphthalene (C12.89)

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



#4 2-Bromonaphthalene (SURR)

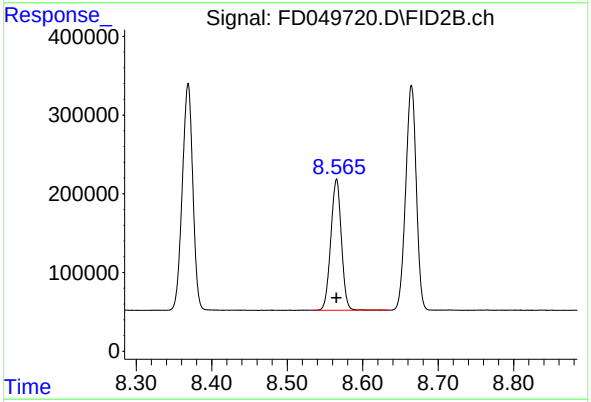
R.T.: 7.701 min
Delta R.T.: 0.000 min
Response: 2254913
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

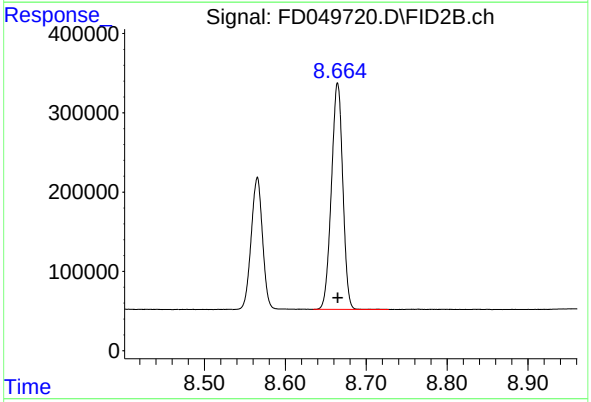
R.T.: 8.369 min
Delta R.T.: 0.000 min
Response: 2789202
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



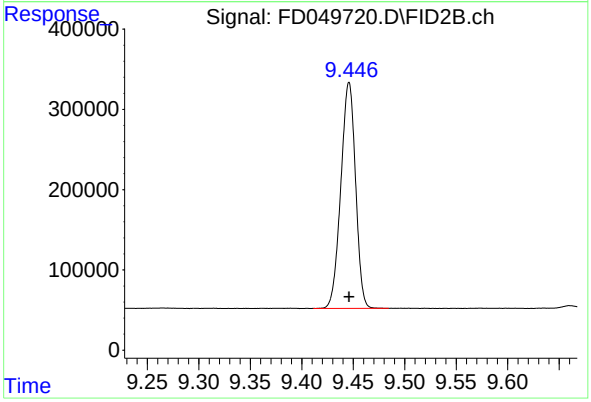
#6 2-Flurobiphenyl (SURR)

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



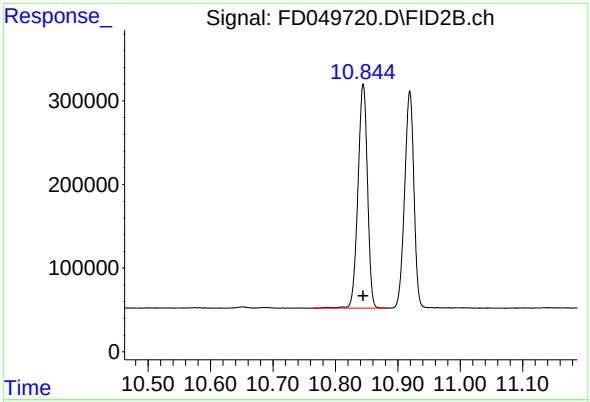
#7 Acenaphthene (C15.5)

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



#8 Flouorene (C16.55)

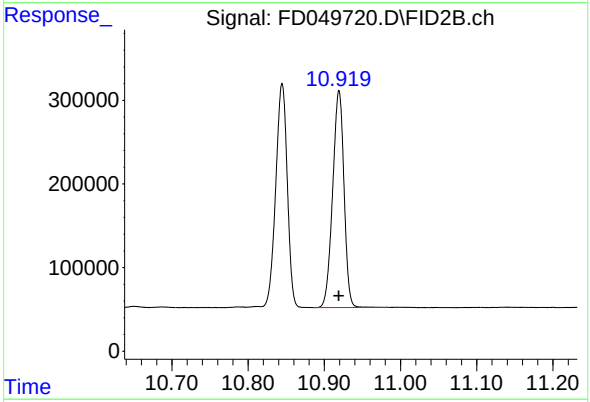
R.T.: 9.446 min
Delta R.T.: 0.000 min
Response: 2804645
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

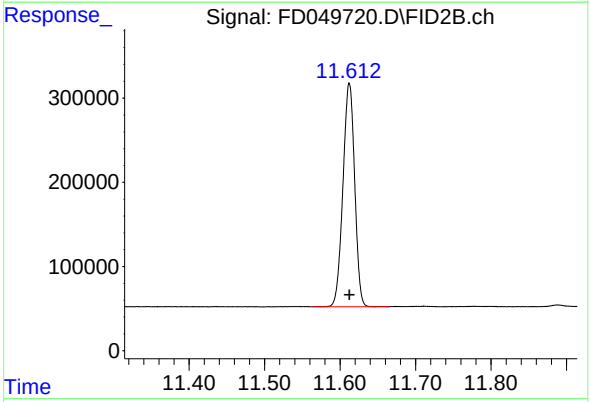
R.T.: 10.845 min
Delta R.T.: 0.000 min
Response: 2839318
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



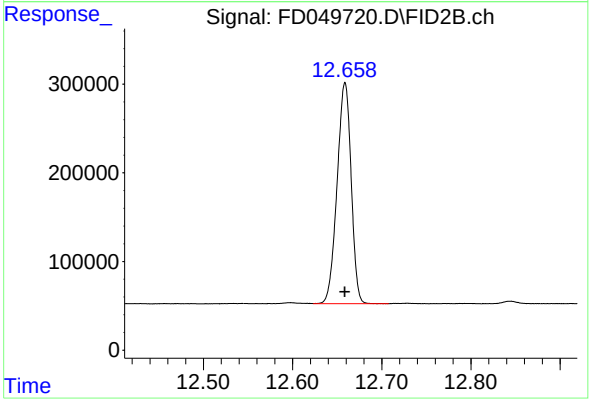
#10 Anthracene (C19.43)

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



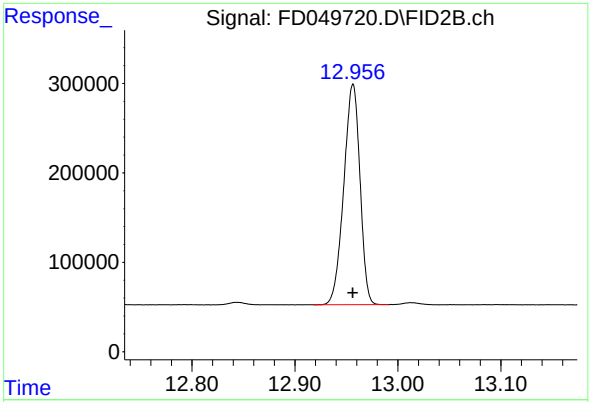
#11 ortho-Terphenyl (SURR)

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



#12 Fluoranthene (C21.85)

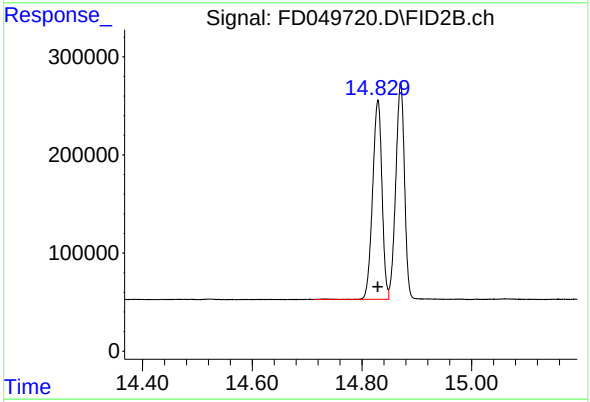
R.T.: 12.659 min
Delta R.T.: 0.000 min
Response: 2731115
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

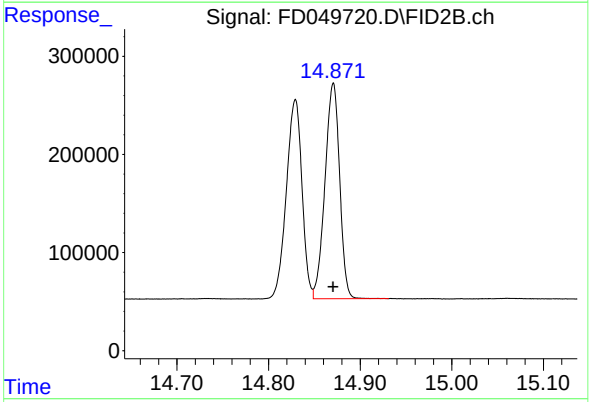
R.T.: 12.956 min
Delta R.T.: 0.000 min
Response: 2698257
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



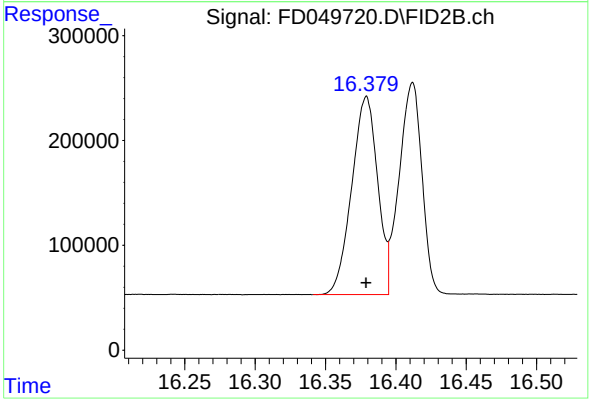
#14 Benzo[a]anthracene (C26.37)

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



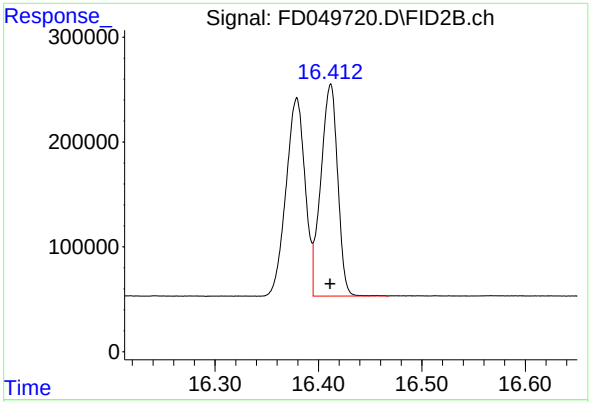
#15 Chrysene (C27.41)

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



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

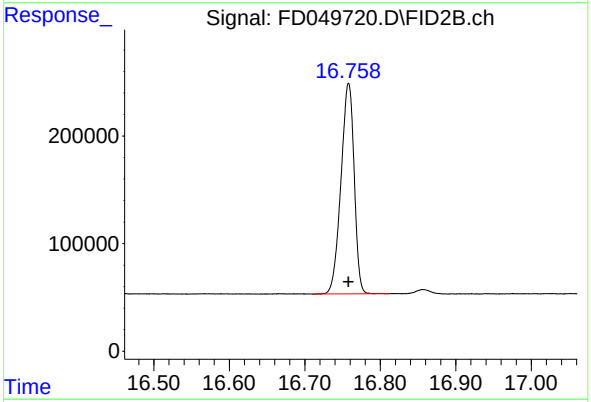
R.T.: 16.379 min
Delta R.T.: 0.000 min
Response: 2415976
Conc: 20.00 ug/ml



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

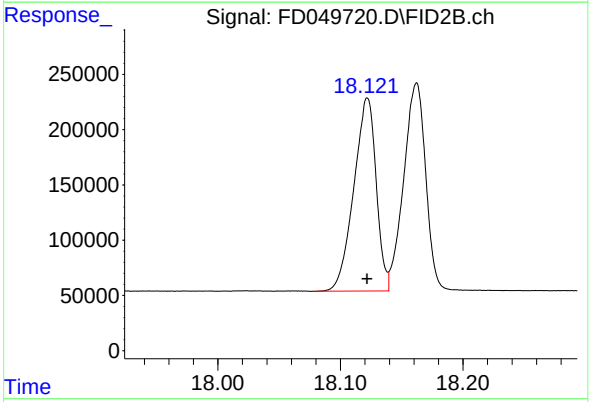
R.T.: 16.411 min
Delta R.T.: 0.000 min
Response: 2286971
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



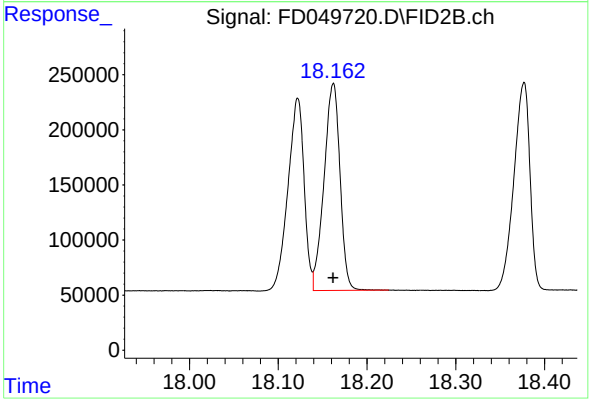
#18 Benzo[a]pyrene (C31.34)

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



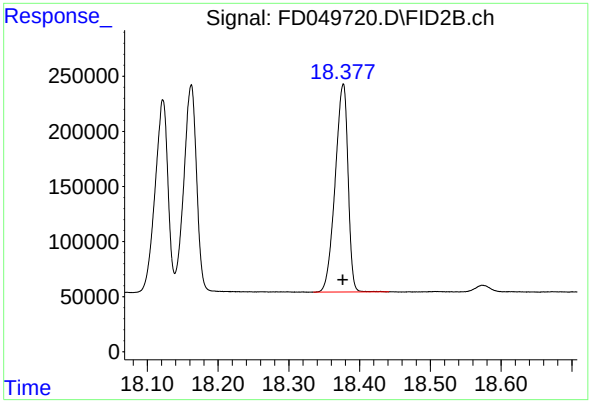
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

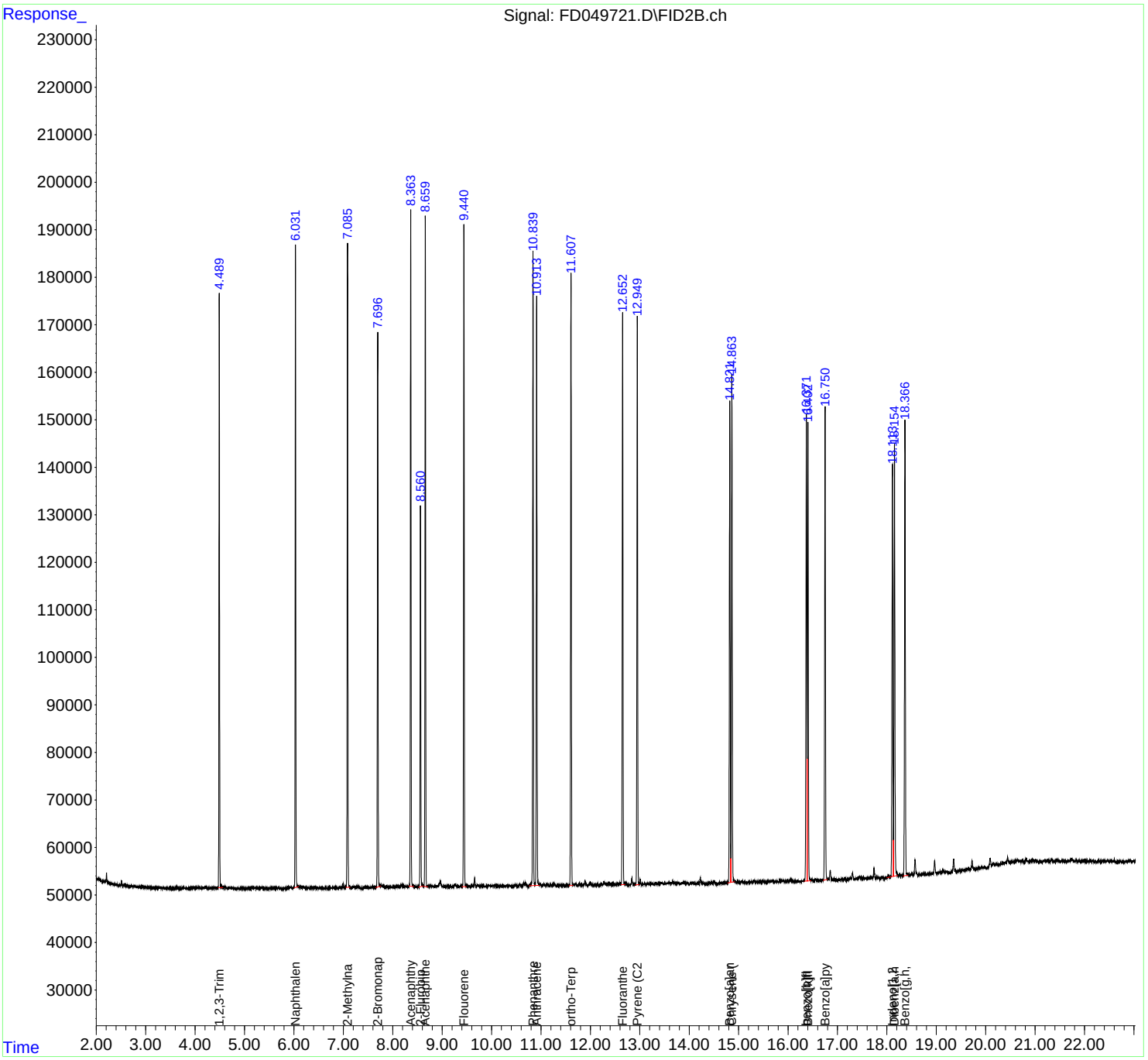
(f)=RT Delta > 1/2 Window (m)=manual int.

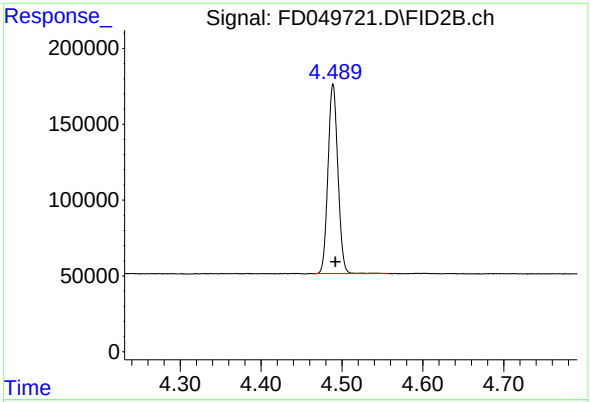
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049721.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 11:38
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

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

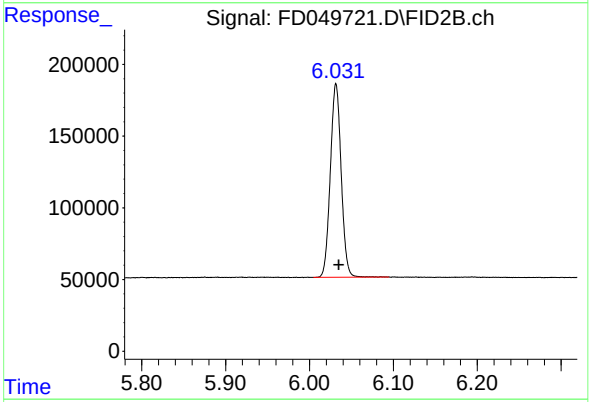




#1 1,2,3-Trimethylbenzene (C10.1)

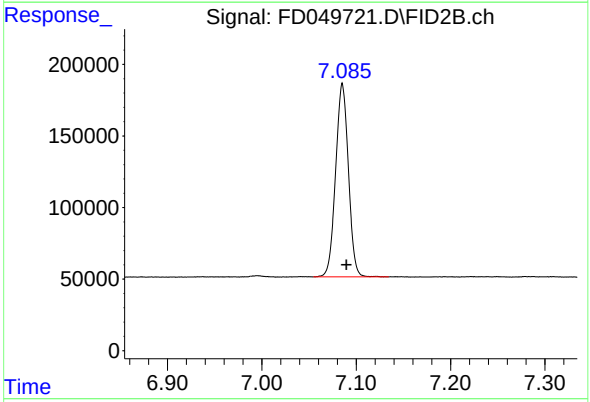
R.T.: 4.489 min
Delta R.T.: -0.003 min
Response: 1063806
Conc: 9.88 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



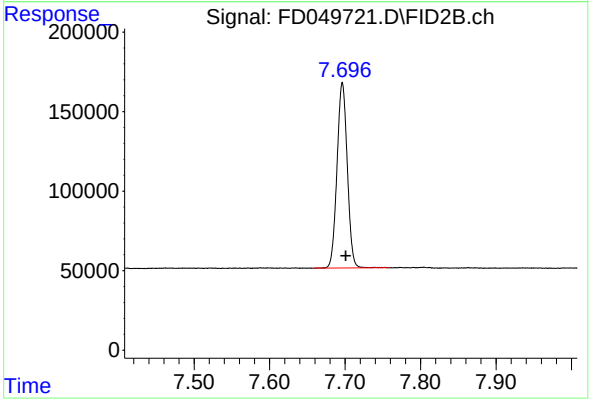
#2 Naphthalene (C11.7)

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



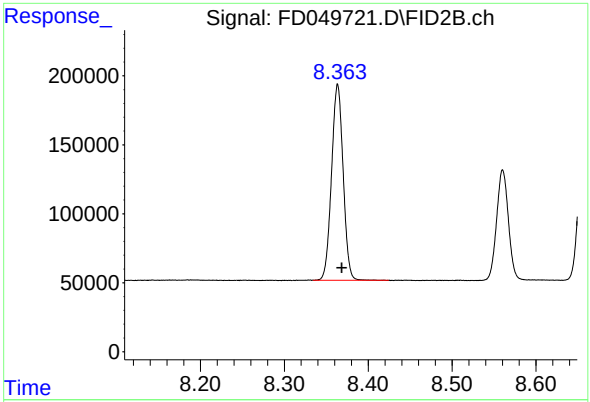
#3 2-Methylnaphthalene (C12.89)

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



#4 2-Bromonaphthalene (SURR)

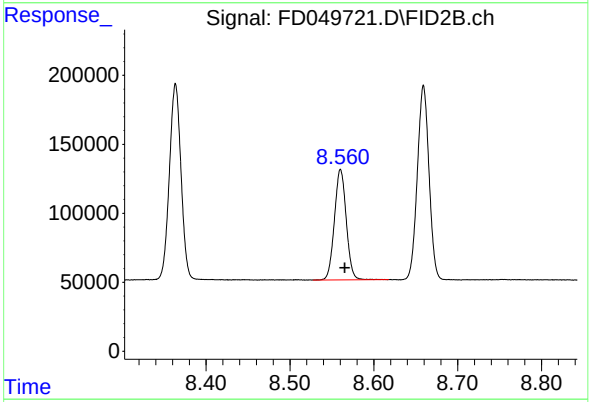
R.T.: 7.696 min
Delta R.T.: -0.004 min
Response: 1103950
Conc: 9.79 ug/ml



#5 Acenaphthylene (C15.06)

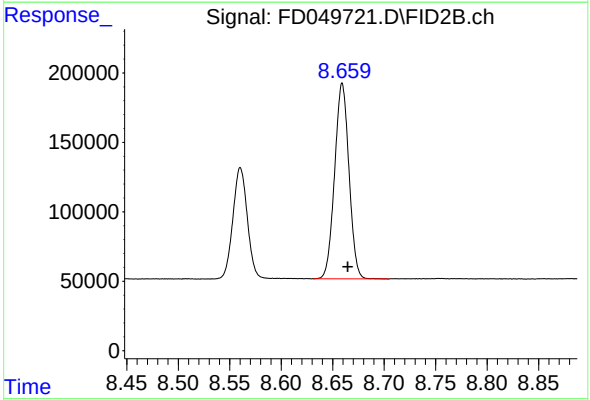
R.T.: 8.364 min
Delta R.T.: -0.005 min
Response: 1364366
Conc: 9.78 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



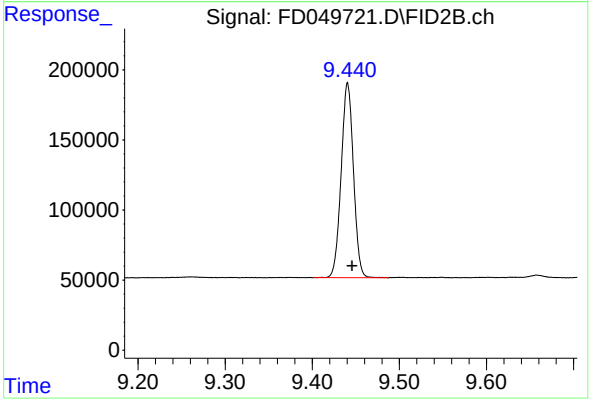
#6 2-Flurobiphenyl (SURR)

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



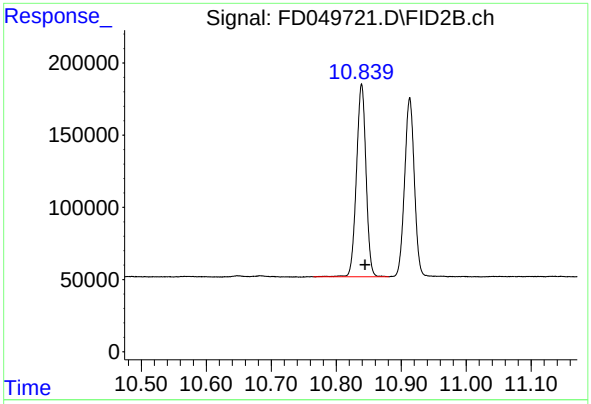
#7 Acenaphthene (C15.5)

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



#8 Flouorene (C16.55)

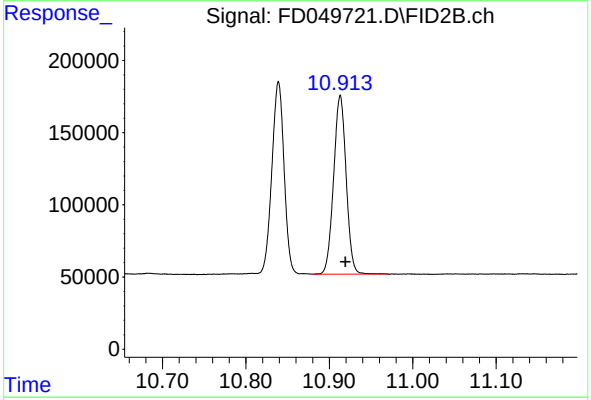
R.T.: 9.441 min
Delta R.T.: -0.005 min
Response: 1362341
Conc: 9.71 ug/ml



#9 Phenanthrene (C19.36)

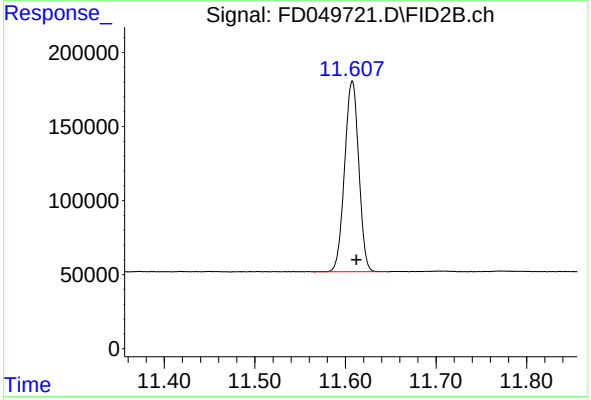
R.T.: 10.839 min
Delta R.T.: -0.006 min
Response: 1363521
Conc: 9.60 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



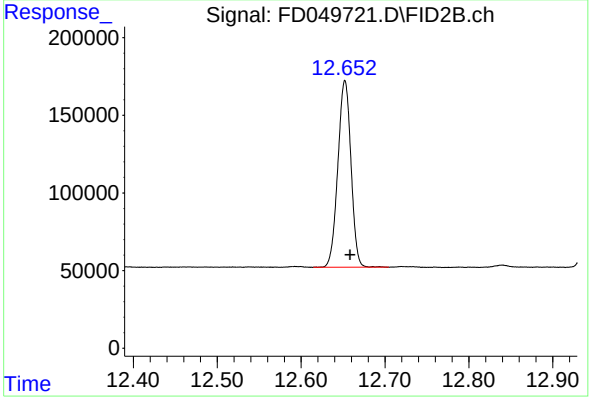
#10 Anthracene (C19.43)

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



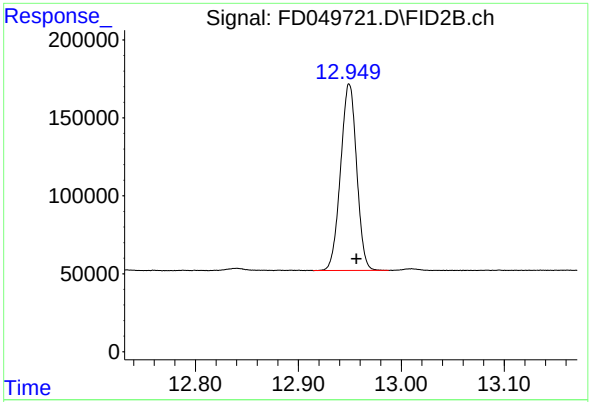
#11 ortho-Terphenyl (SURR)

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



#12 Fluoranthene (C21.85)

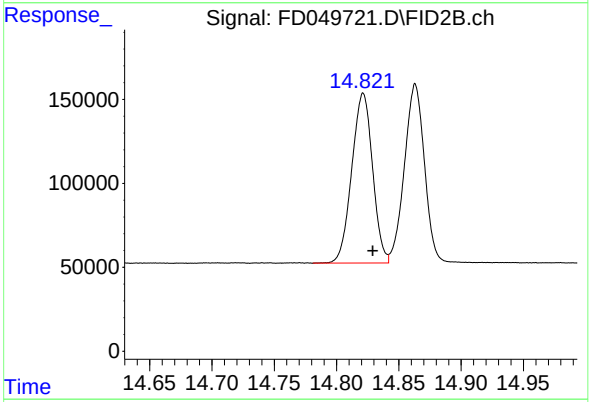
R.T.: 12.652 min
Delta R.T.: -0.006 min
Response: 1306755
Conc: 9.57 ug/ml



#13 Pyrene (C20.8)

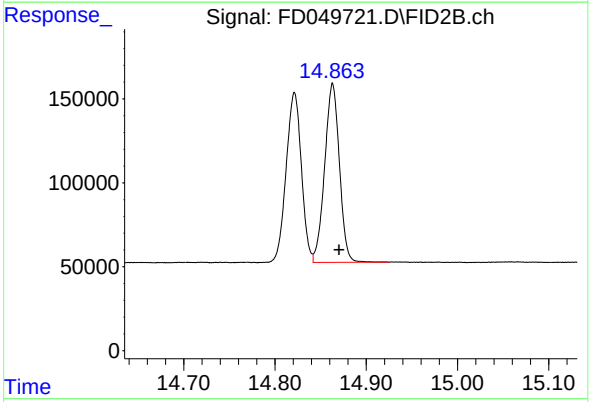
R.T.: 12.949 min
Delta R.T.: -0.007 min
Response: 1298472
Conc: 9.62 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



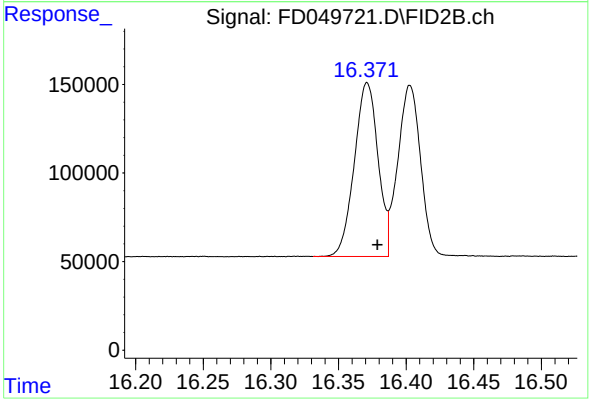
#14 Benzo[a]anthracene (C26.37)

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



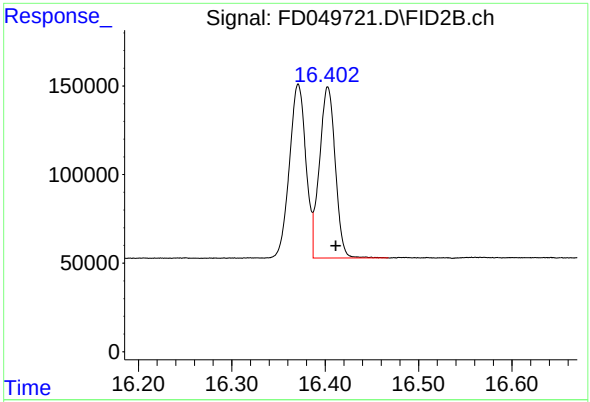
#15 Chrysene (C27.41)

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



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

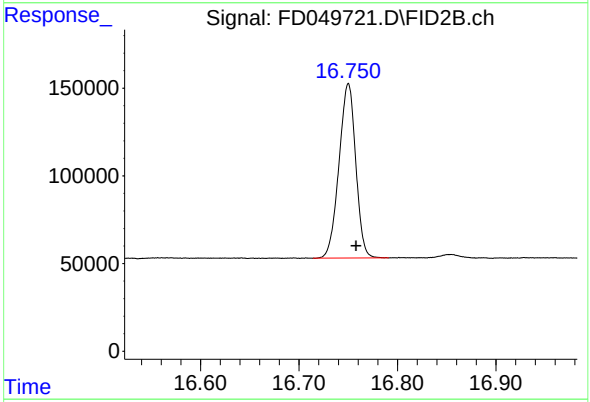
R.T.: 16.371 min
Delta R.T.: -0.008 min
Response: 1196416
Conc: 9.90 ug/ml



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

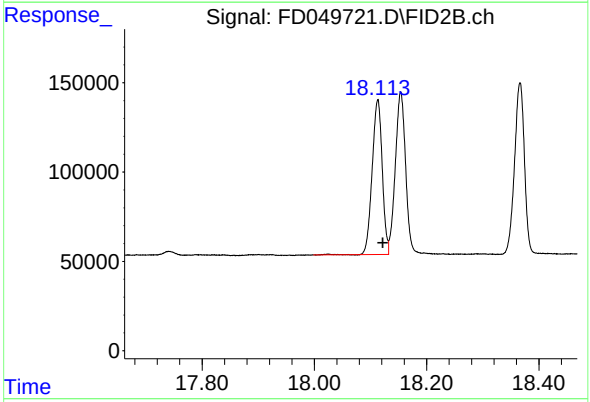
R.T.: 16.403 min
Delta R.T.: -0.009 min
Response: 1135613
Conc: 9.93 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



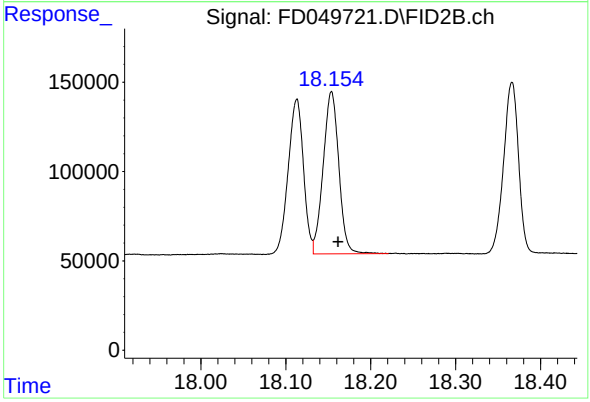
#18 Benzo[a]pyrene (C31.34)

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



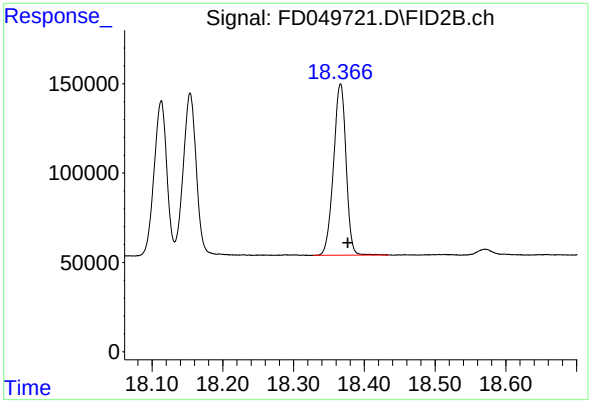
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

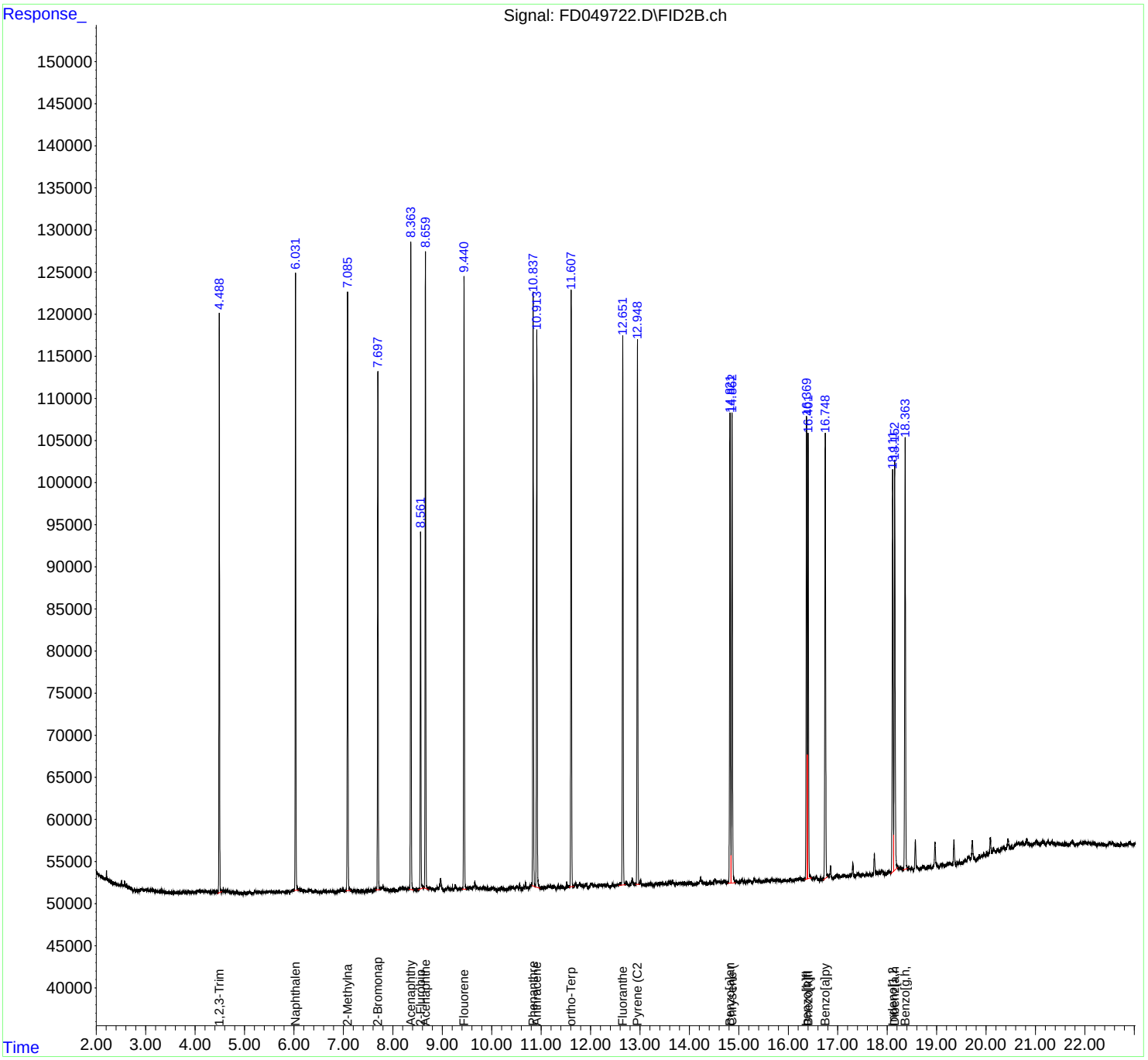
(f)=RT Delta > 1/2 Window (m)=manual int.

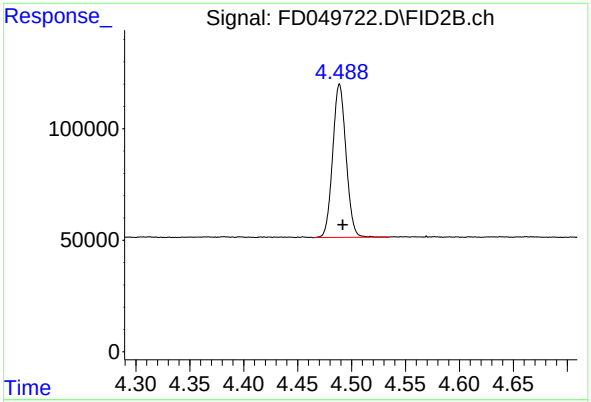
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049722.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 12:19
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

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

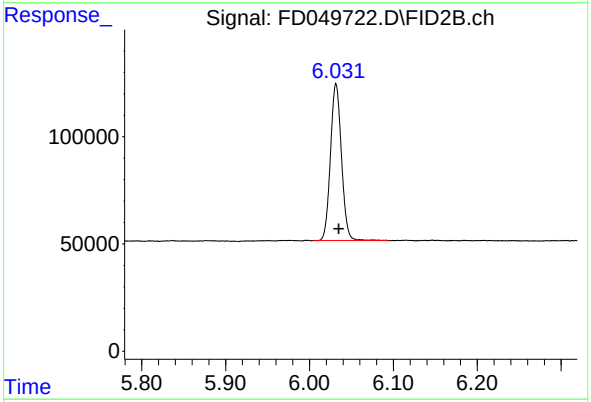




#1 1,2,3-Trimethylbenzene (C10.1)

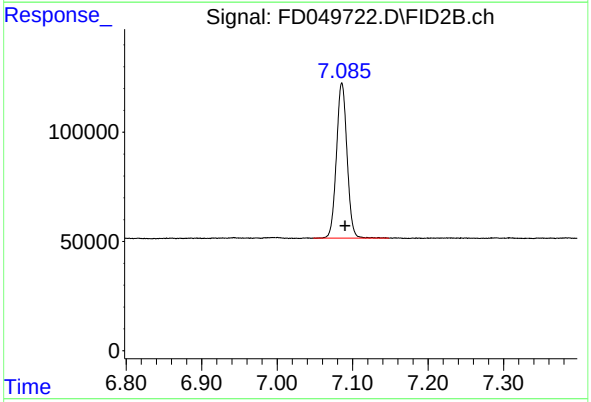
R.T.: 4.489 min
Delta R.T.: -0.003 min
Response: 591988
Conc: 5.50 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



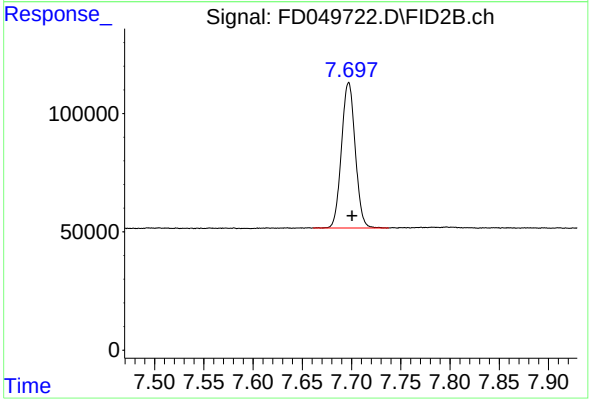
#2 Naphthalene (C11.7)

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



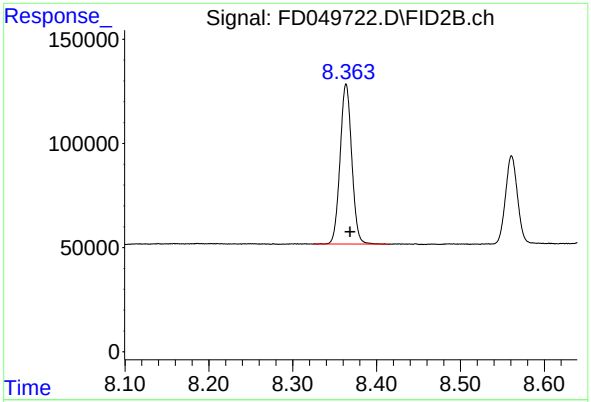
#3 2-Methylnaphthalene (C12.89)

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



#4 2-Bromonaphthalene (SURR)

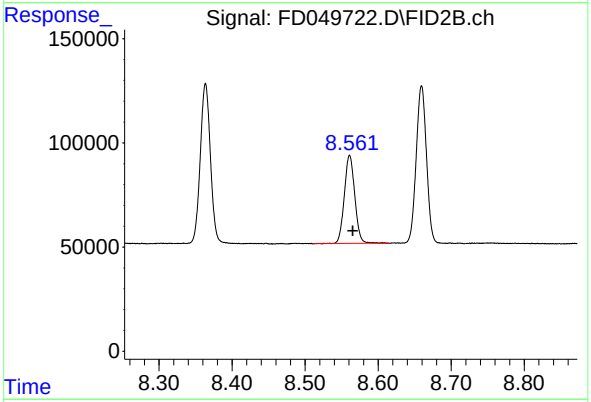
R.T.: 7.697 min
Delta R.T.: -0.004 min
Response: 596288
Conc: 5.29 ug/ml



#5 Acenaphthylene (C15.06)

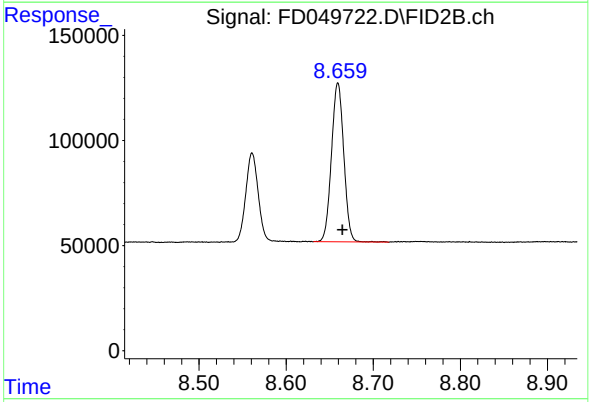
R.T.: 8.364 min
Delta R.T.: -0.005 min
Response: 742304
Conc: 5.32 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



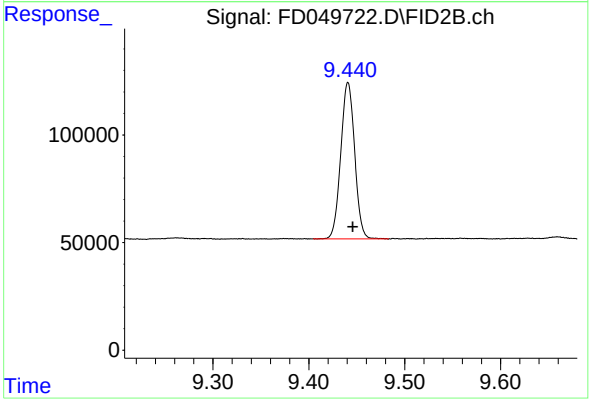
#6 2-Flurobiphenyl (SURR)

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



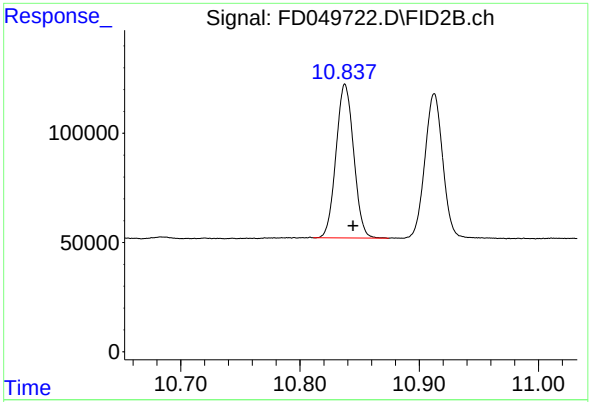
#7 Acenaphthene (C15.5)

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



#8 Flouorene (C16.55)

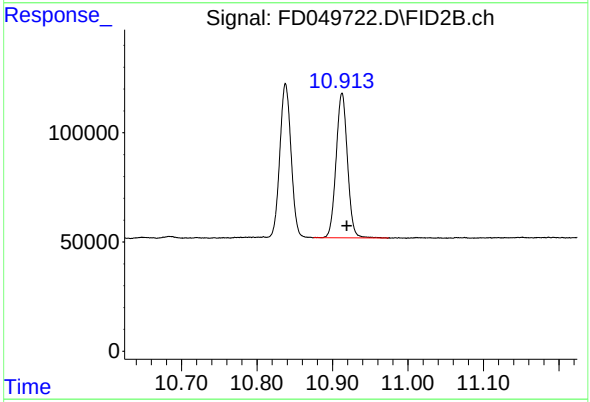
R.T.: 9.441 min
Delta R.T.: -0.005 min
Response: 735487
Conc: 5.24 ug/ml



#9 Phenanthrene (C19.36)

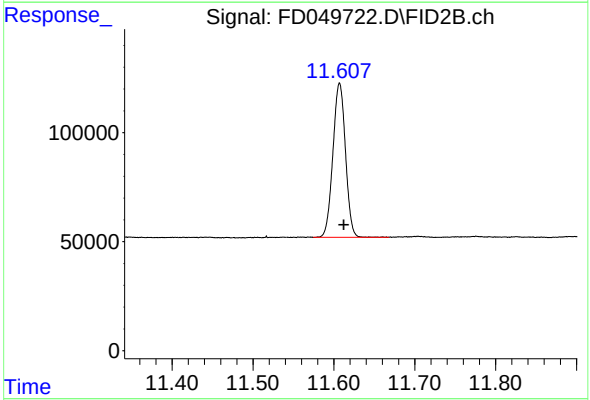
R.T.: 10.838 min
Delta R.T.: -0.007 min
Response: 722864
Conc: 5.09 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



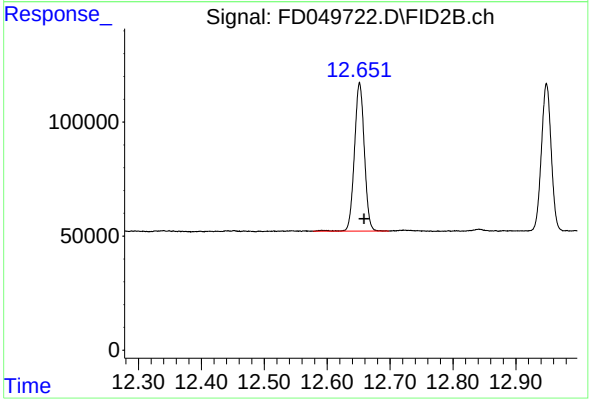
#10 Anthracene (C19.43)

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



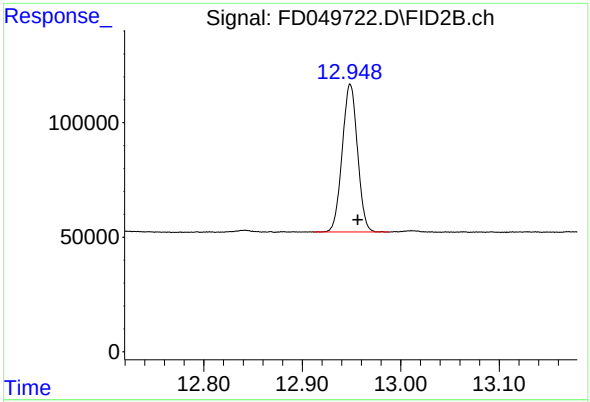
#11 ortho-Terphenyl (SURR)

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



#12 Fluoranthene (C21.85)

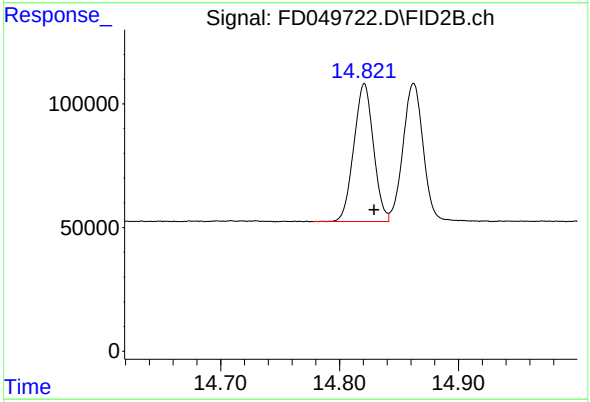
R.T.: 12.652 min
Delta R.T.: -0.007 min
Response: 709917
Conc: 5.20 ug/ml



#13 Pyrene (C20.8)

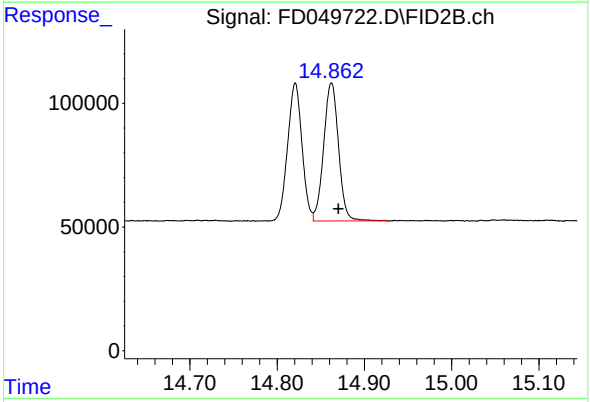
R.T.: 12.949 min
Delta R.T.: -0.008 min
Response: 695929
Conc: 5.16 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



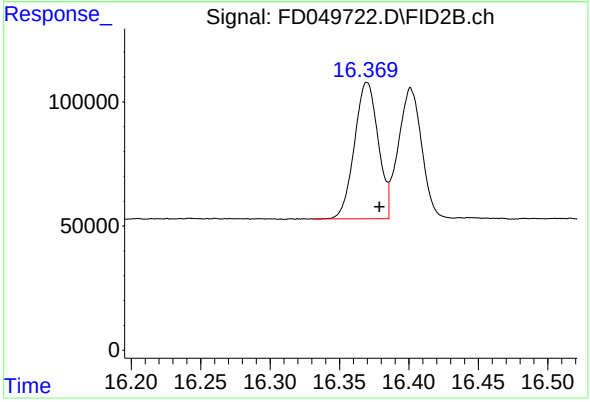
#14 Benzo[a]anthracene (C26.37)

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



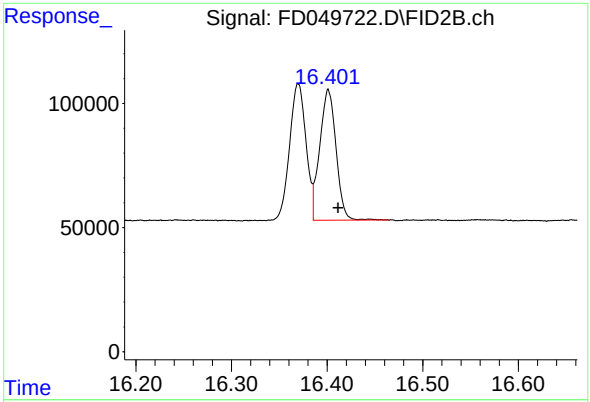
#15 Chrysene (C27.41)

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



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

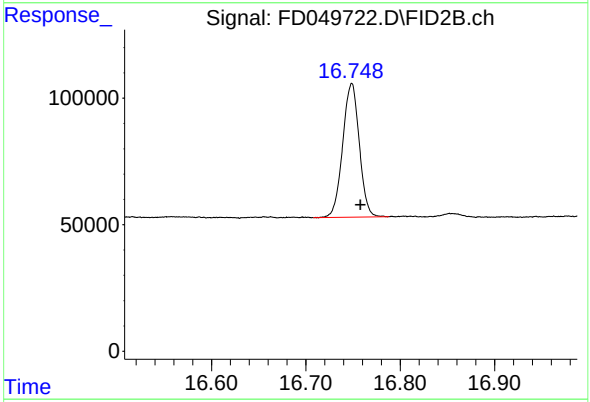
R.T.: 16.370 min
Delta R.T.: -0.009 min
Response: 653575
Conc: 5.41 ug/ml



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

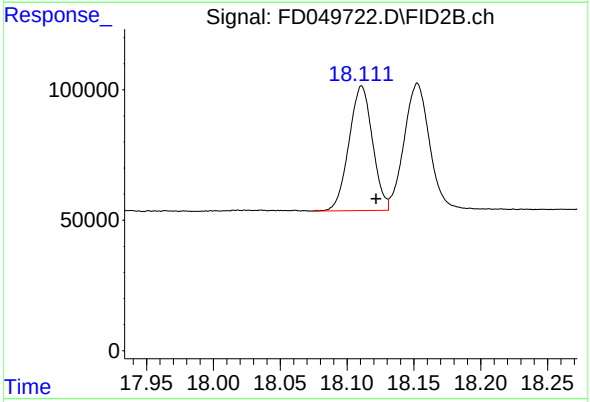
R.T.: 16.401 min
Delta R.T.: -0.010 min
Response: 620851
Conc: 5.43 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



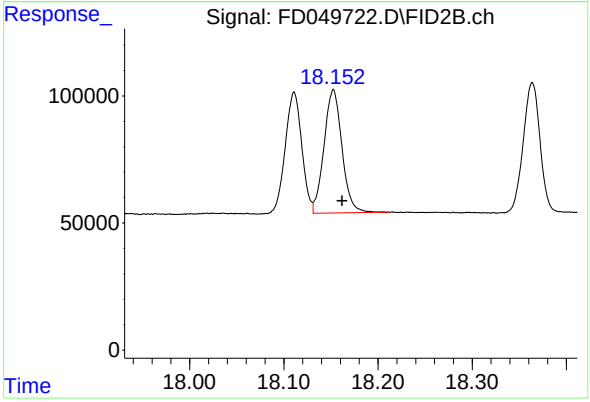
#18 Benzo[a]pyrene (C31.34)

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



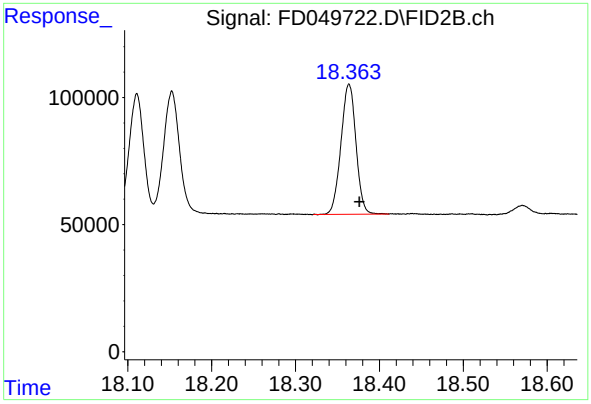
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

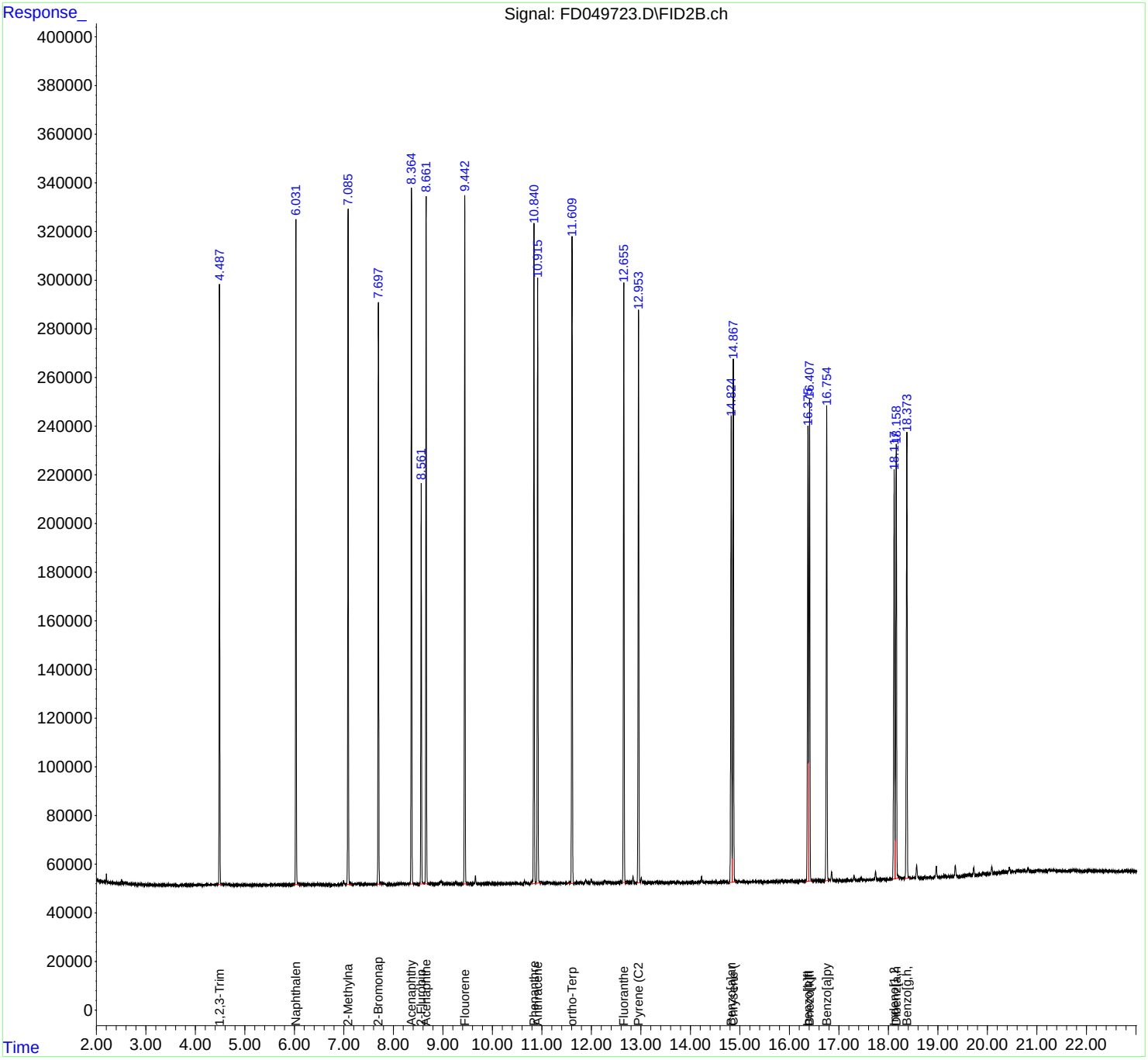
(f)=RT Delta > 1/2 Window (m)=manual int.

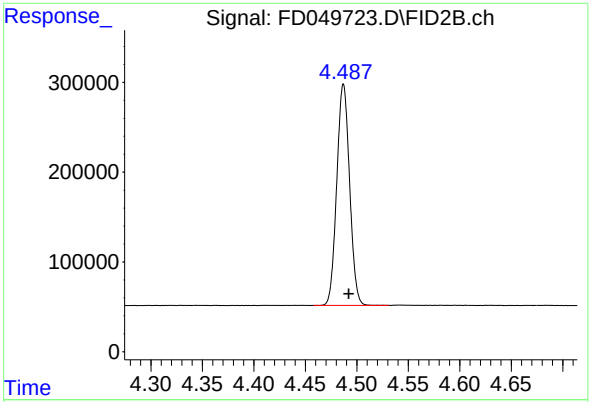
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049723.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 13:00
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

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

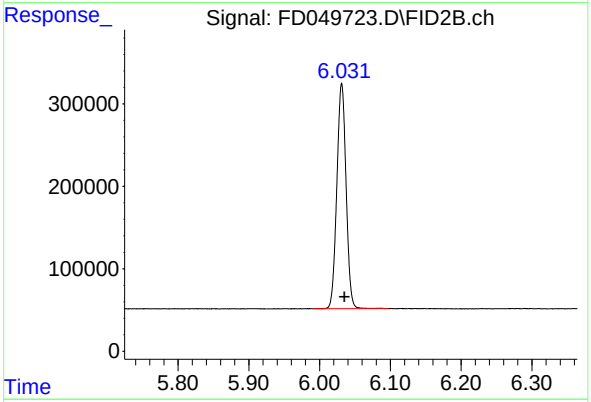




#1 1,2,3-Trimethylbenzene (C10.1)

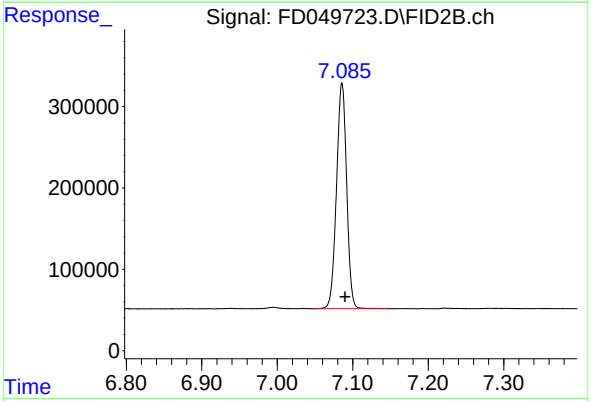
R.T.: 4.487 min
Delta R.T.: -0.005 min
Response: 2140546
Conc: 19.87 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



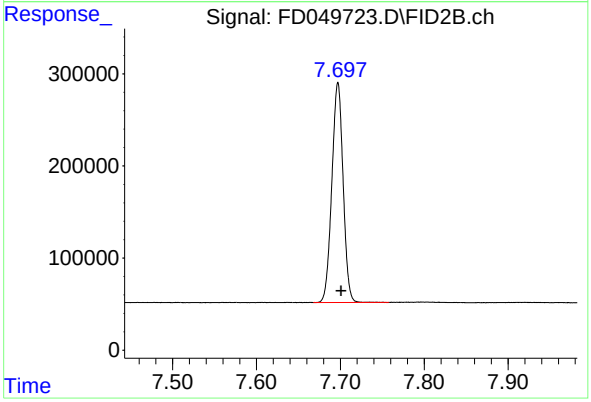
#2 Naphthalene (C11.7)

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



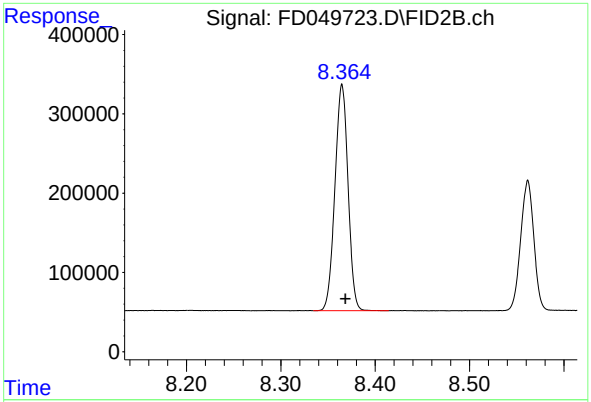
#3 2-Methylnaphthalene (C12.89)

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



#4 2-Bromonaphthalene (SURR)

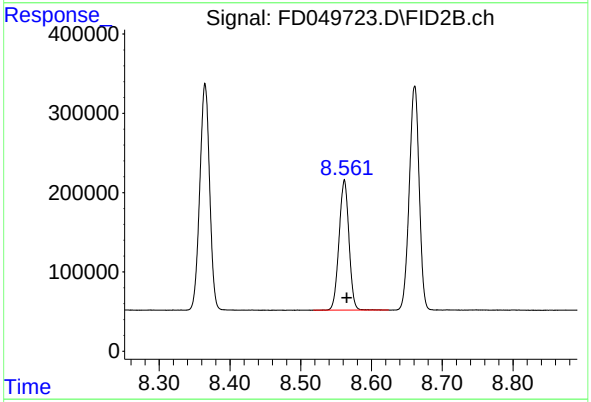
R.T.: 7.697 min
Delta R.T.: -0.004 min
Response: 2231641
Conc: 19.84 ug/ml



#5 Acenaphthylene (C15.06)

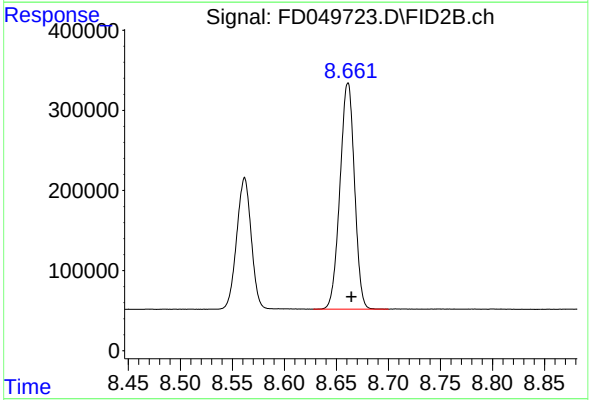
R.T.: 8.365 min
Delta R.T.: -0.004 min
Response: 2749499
Conc: 19.83 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



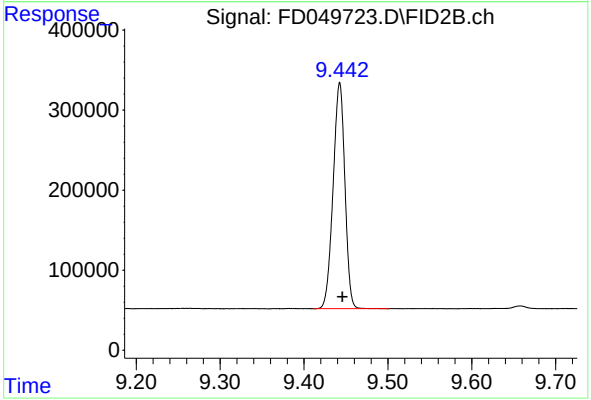
#6 2-Flurobiphenyl (SURR)

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



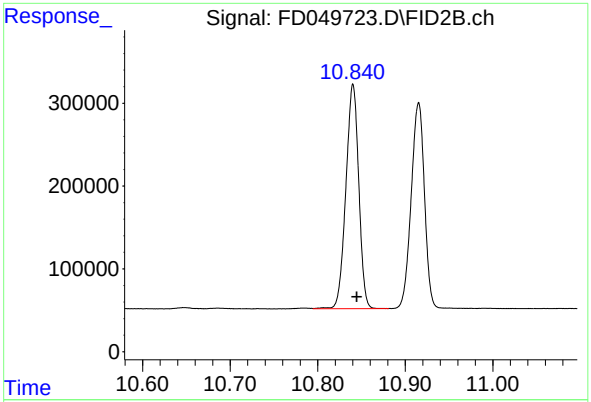
#7 Acenaphthene (C15.5)

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



#8 Flouorene (C16.55)

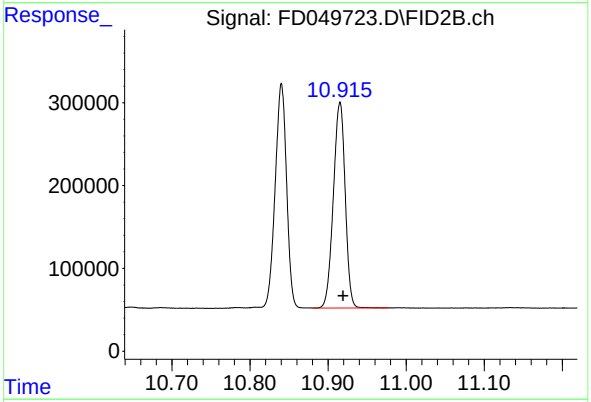
R.T.: 9.442 min
Delta R.T.: -0.003 min
Response: 2761041
Conc: 19.90 ug/ml



#9 Phenanthrene (C19.36)

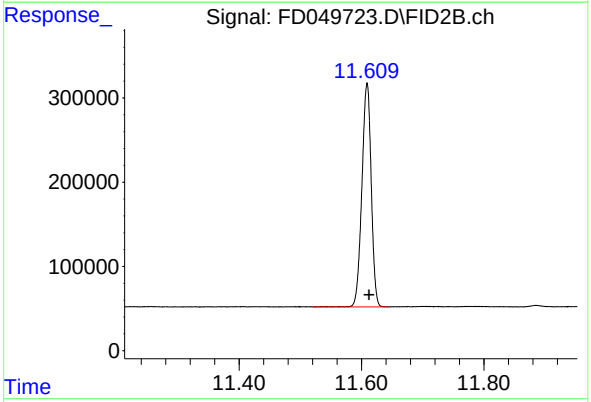
R.T.: 10.840 min
Delta R.T.: -0.004 min
Response: 2765682
Conc: 19.85 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



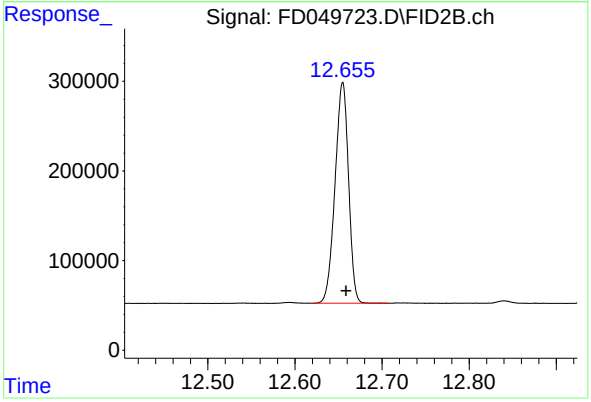
#10 Anthracene (C19.43)

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



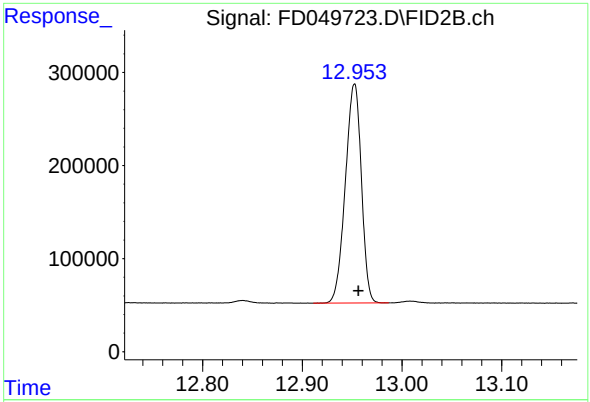
#11 ortho-Terphenyl (SURR)

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



#12 Fluoranthene (C21.85)

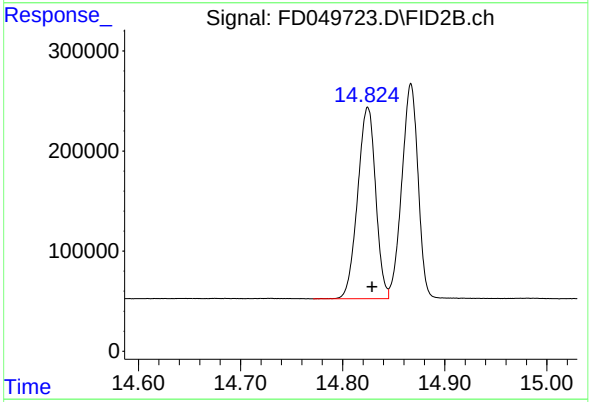
R.T.: 12.655 min
Delta R.T.: -0.004 min
Response: 2654106
Conc: 19.71 ug/ml



#13 Pyrene (C20.8)

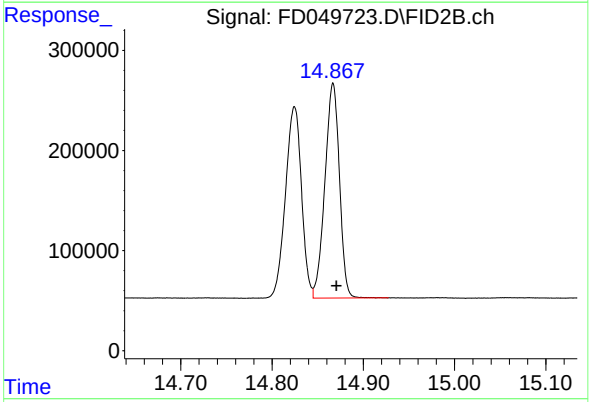
R.T.: 12.952 min
Delta R.T.: -0.004 min
Response: 2629491
Conc: 19.77 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



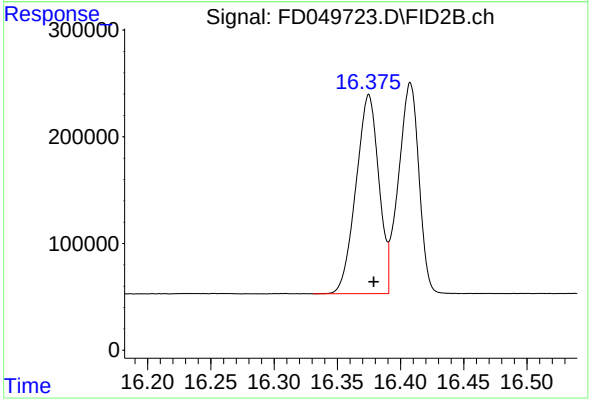
#14 Benzo[a]anthracene (C26.37)

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



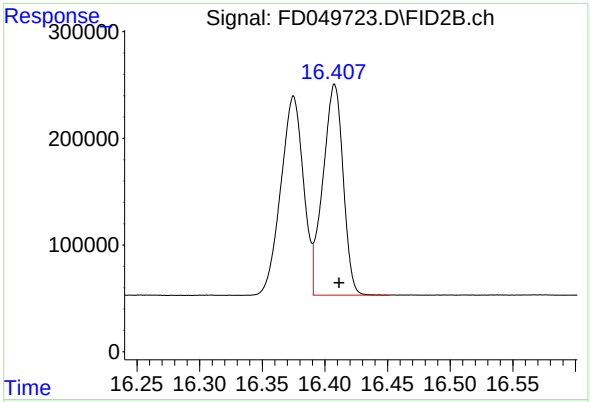
#15 Chrysene (C27.41)

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



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

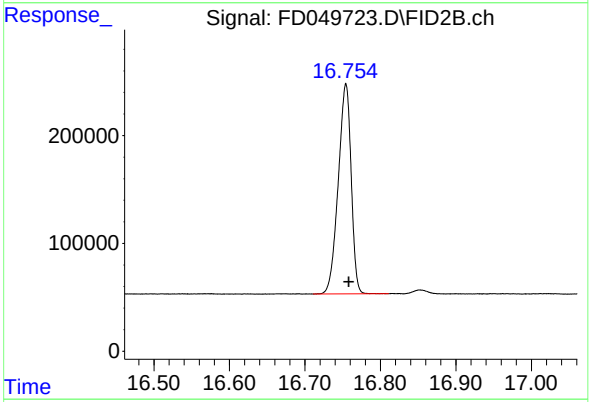
R.T.: 16.375 min
Delta R.T.: -0.004 min
Response: 2350033
Conc: 19.61 ug/ml



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

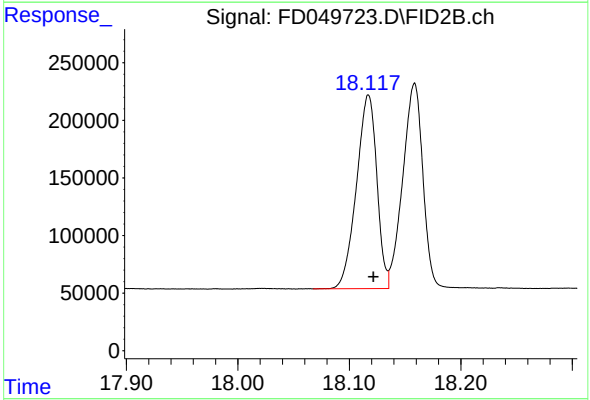
R.T.: 16.407 min
Delta R.T.: -0.004 min
Response: 2218226
Conc: 19.69 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



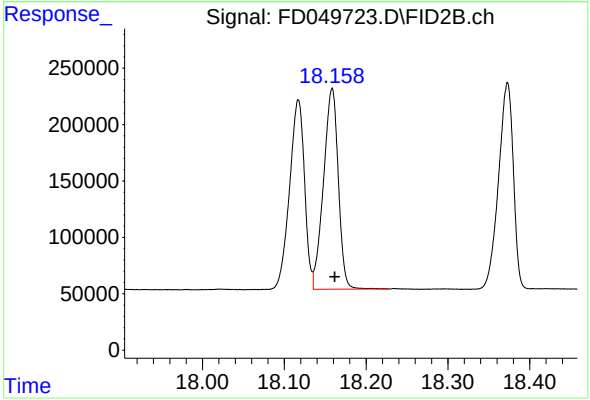
#18 Benzo[a]pyrene (C31.34)

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



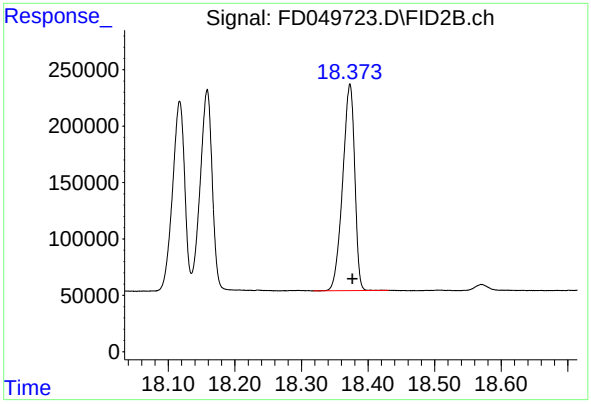
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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 : 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

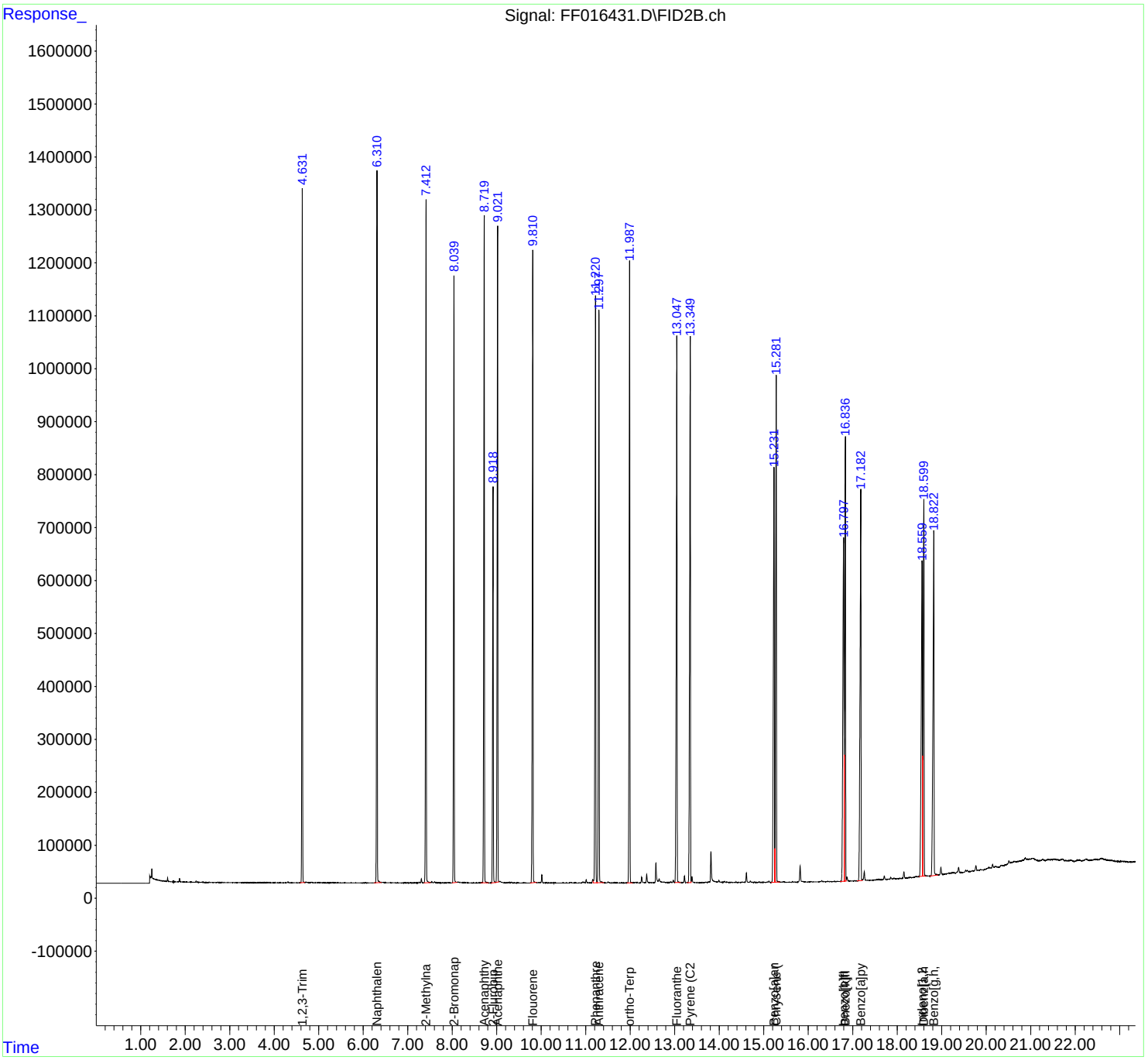
(f)=RT Delta > 1/2 Window (m)=manual int.

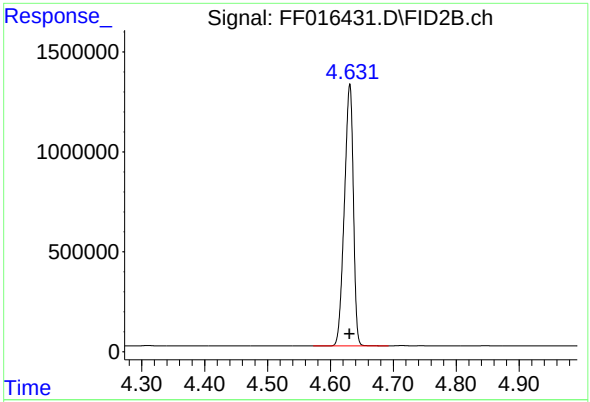
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016431.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 13:59
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 71 Sample Multiplier: 1

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

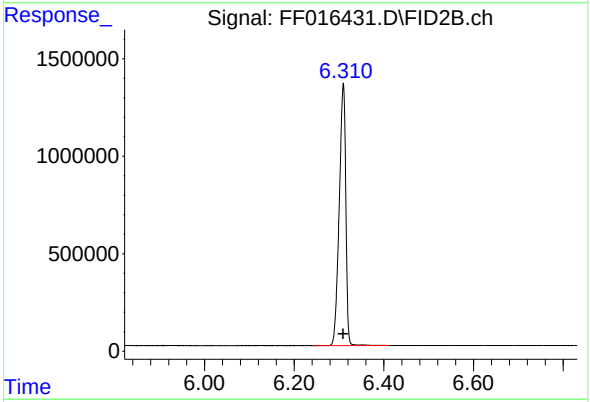




#1 1,2,3-Trimethylbenzene (C10.1)

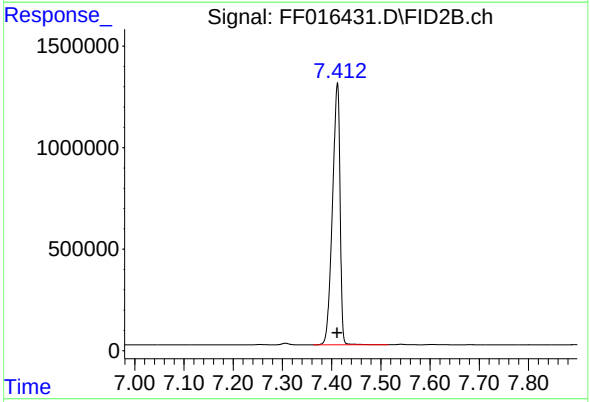
R.T.: 4.630 min
Delta R.T.: 0.000 min
Response: 12963406
Conc: 95.29 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



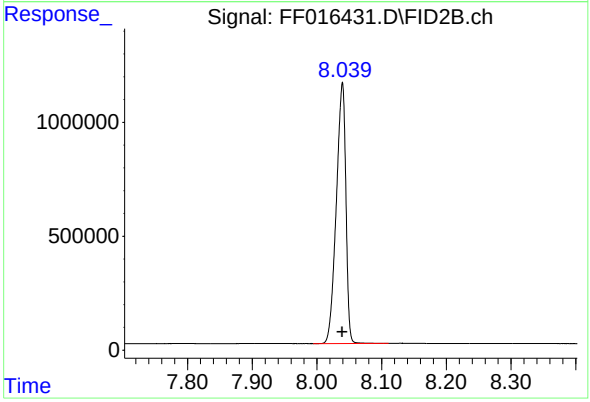
#2 Naphthalene (C11.7)

R.T.: 6.309 min
Delta R.T.: 0.000 min
Response: 13608516
Conc: 95.75 ug/ml



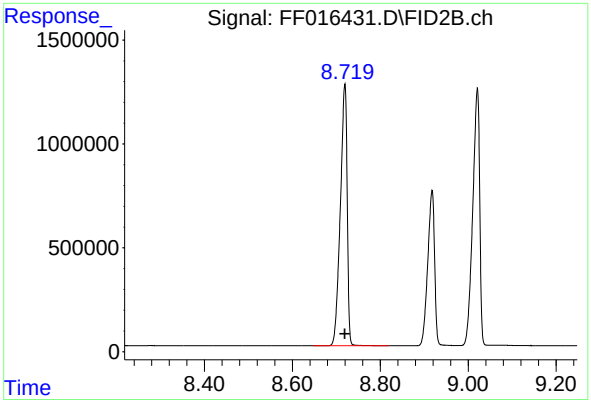
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.411 min
Delta R.T.: 0.000 min
Response: 13820236
Conc: 95.72 ug/ml



#4 2-Bromonaphthalene (SURR)

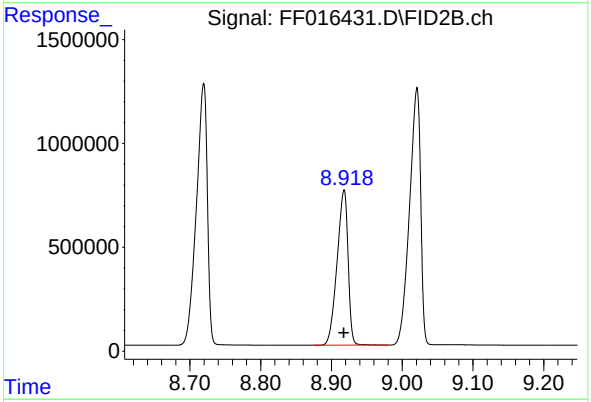
R.T.: 8.039 min
Delta R.T.: 0.000 min
Response: 11754305
Conc: 95.77 ug/ml



#5 Acenaphthylene (C15.06)

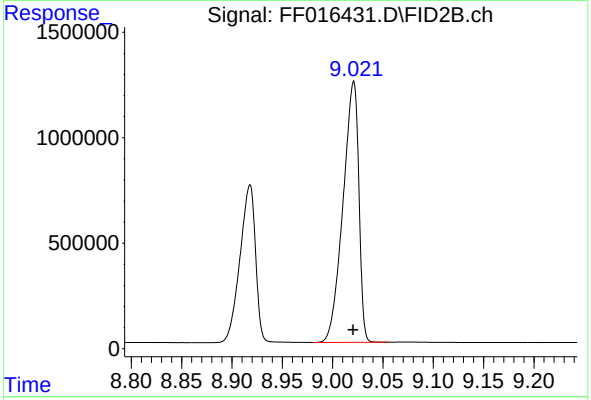
R.T.: 8.719 min
Delta R.T.: 0.000 min
Response: 13570625
Conc: 95.61 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



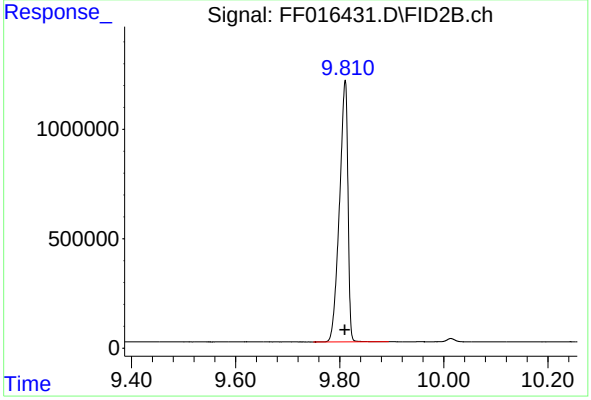
#6 2-Flurobiphenyl (SURR)

R.T.: 8.917 min
Delta R.T.: 0.000 min
Response: 8058977
Conc: 96.14 ug/ml



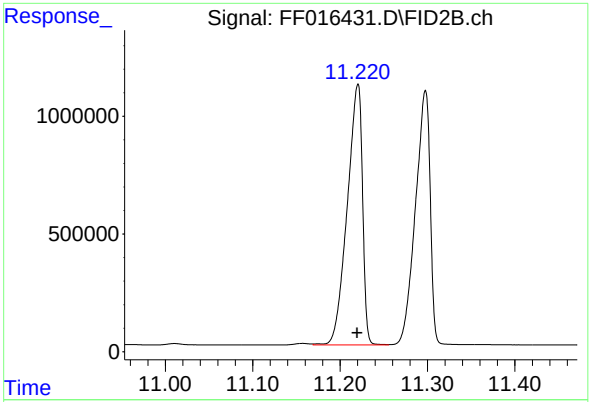
#7 Acenaphthene (C15.5)

R.T.: 9.020 min
Delta R.T.: 0.000 min
Response: 13512842
Conc: 96.14 ug/ml



#8 Flouorene (C16.55)

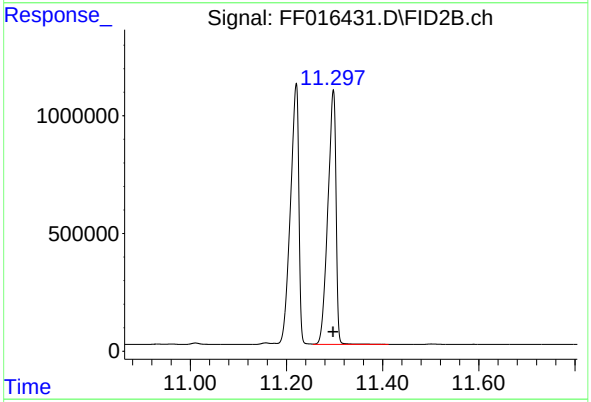
R.T.: 9.810 min
Delta R.T.: 0.000 min
Response: 13450975
Conc: 94.94 ug/ml



#9 Phenanthrene (C19.36)

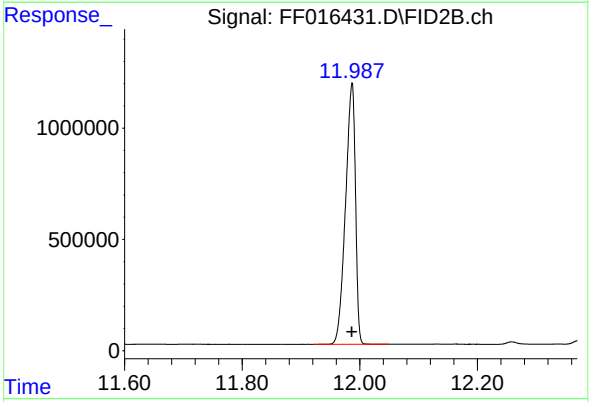
R.T.: 11.220 min
Delta R.T.: 0.000 min
Response: 13438313
Conc: 94.91 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



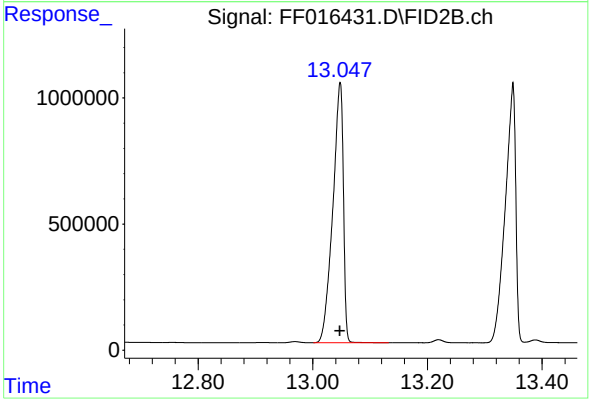
#10 Anthracene (C19.43)

R.T.: 11.297 min
Delta R.T.: 0.000 min
Response: 12723925
Conc: 93.58 ug/ml



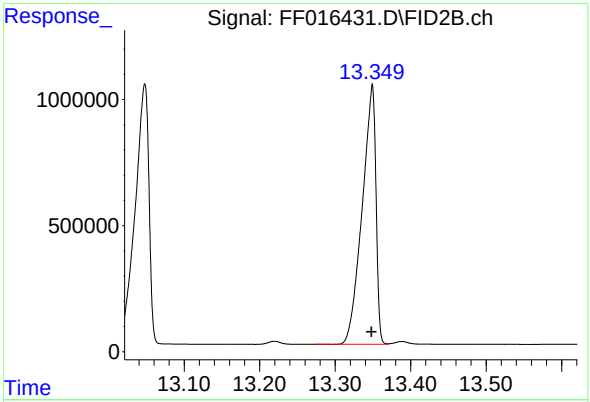
#11 ortho-Terphenyl (SURR)

R.T.: 11.986 min
Delta R.T.: 0.000 min
Response: 13753707
Conc: 94.36 ug/ml



#12 Fluoranthene (C21.85)

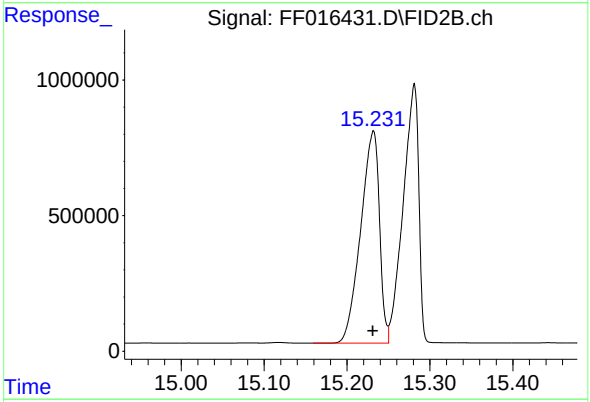
R.T.: 13.047 min
Delta R.T.: 0.000 min
Response: 13192658
Conc: 94.13 ug/ml



#13 Pyrene (C20.8)

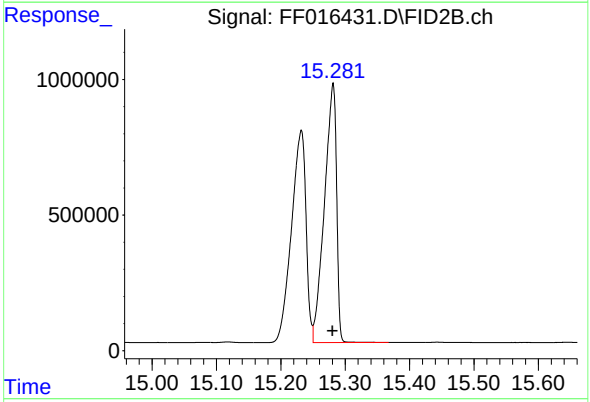
R.T.: 13.348 min
Delta R.T.: 0.000 min
Response: 13029172
Conc: 94.51 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



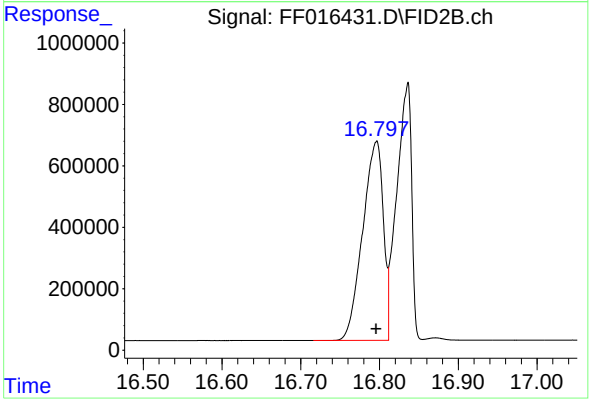
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.231 min
Delta R.T.: 0.000 min
Response: 12303315
Conc: 93.97 ug/ml



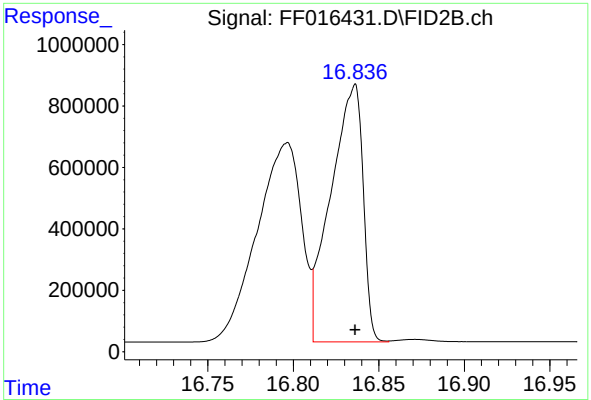
#15 Chrysene (C27.41)

R.T.: 15.280 min
Delta R.T.: 0.000 min
Response: 12463435
Conc: 93.09 ug/ml



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

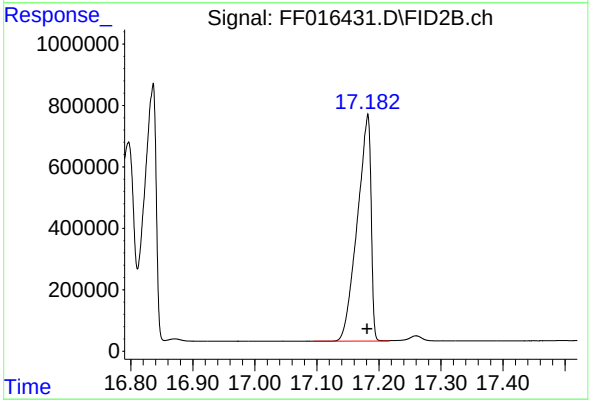
R.T.: 16.796 min
Delta R.T.: 0.000 min
Response: 11802907
Conc: 93.35 ug/ml



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

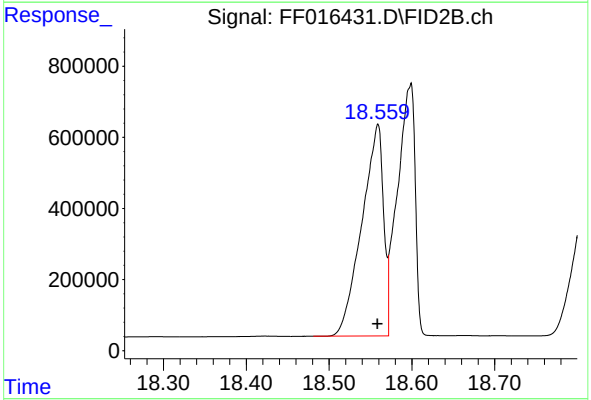
R.T.: 16.835 min
Delta R.T.: -0.002 min
Response: 10991506
Conc: 92.58 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



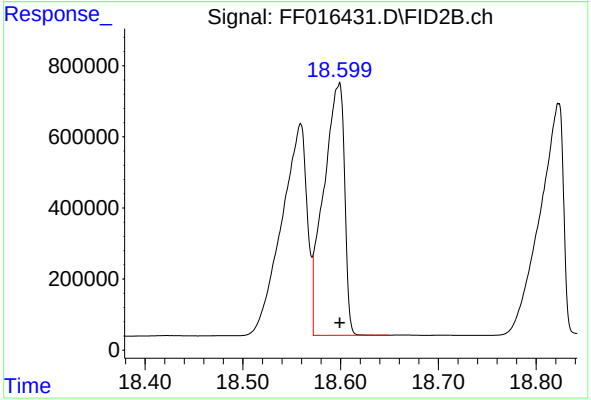
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.181 min
Delta R.T.: 0.000 min
Response: 11301951
Conc: 93.02 ug/ml



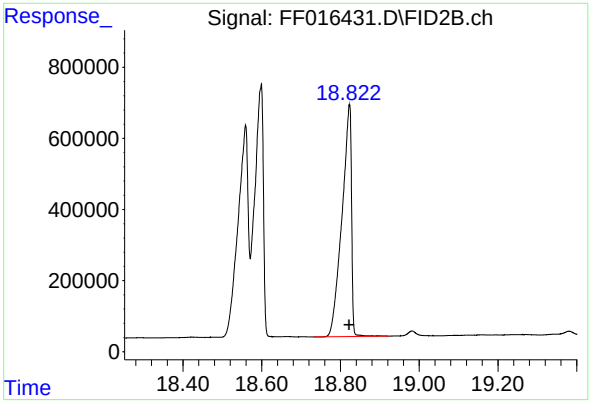
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

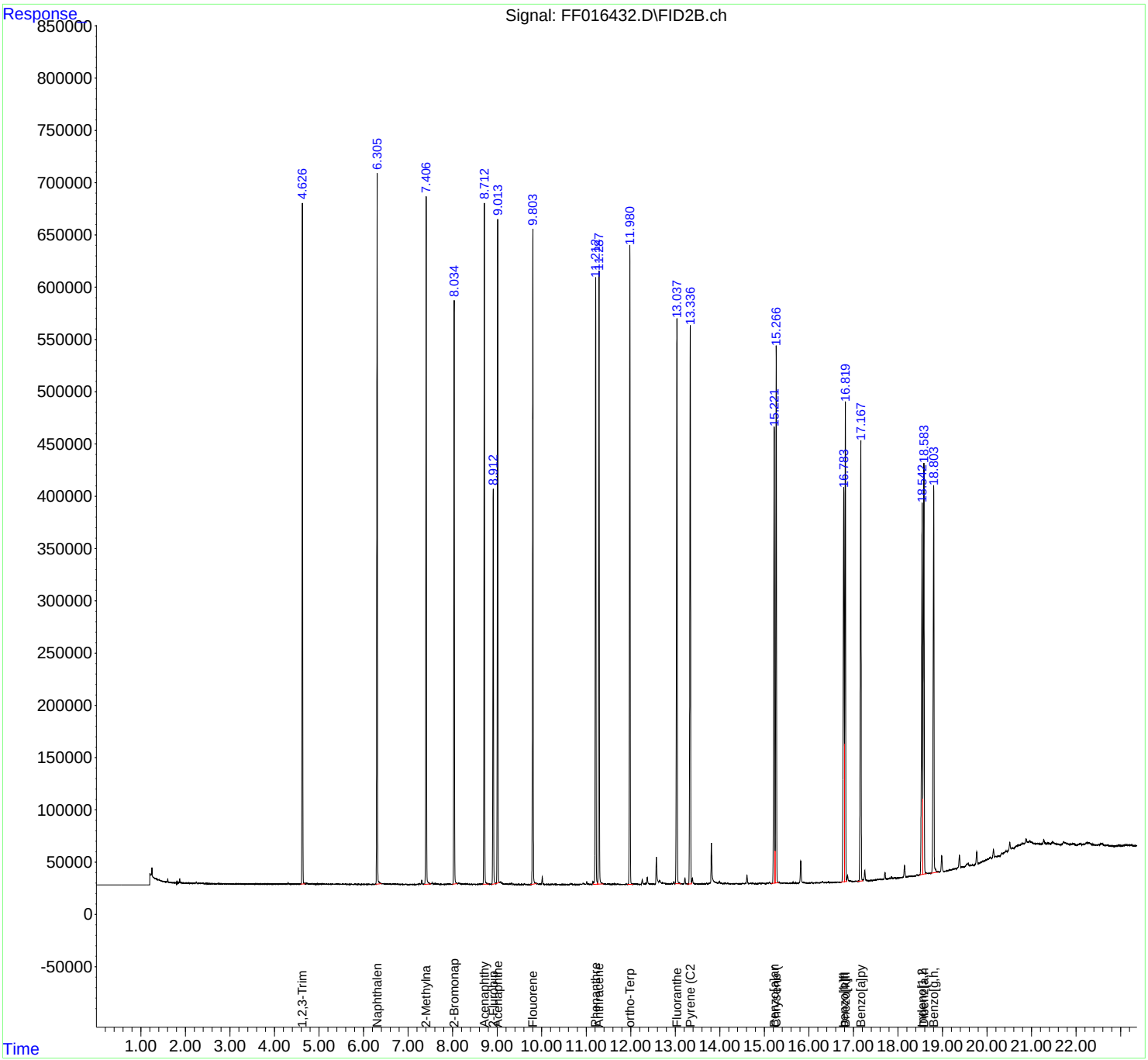
(f)=RT Delta > 1/2 Window (m)=manual int.

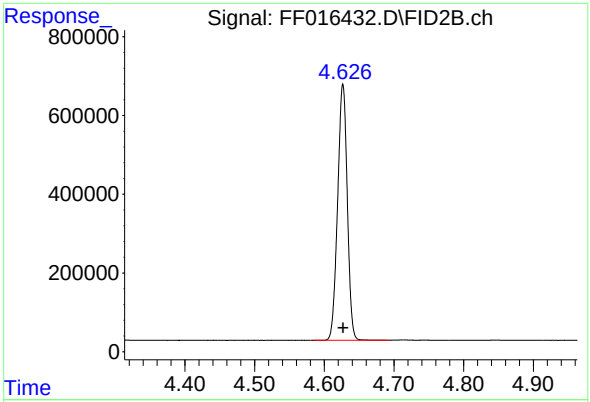
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016432.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 14:29
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 72 Sample Multiplier: 1

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

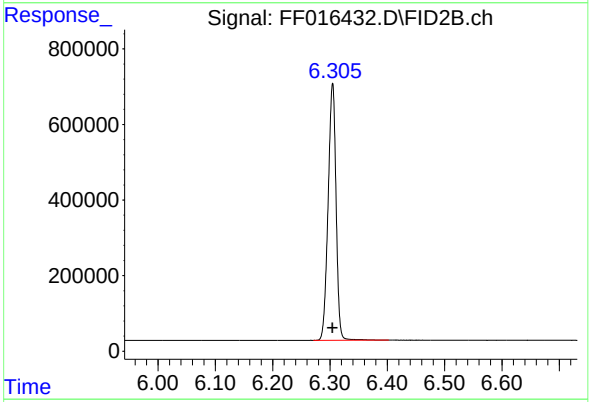




#1 1,2,3-Trimethylbenzene (C10.1)

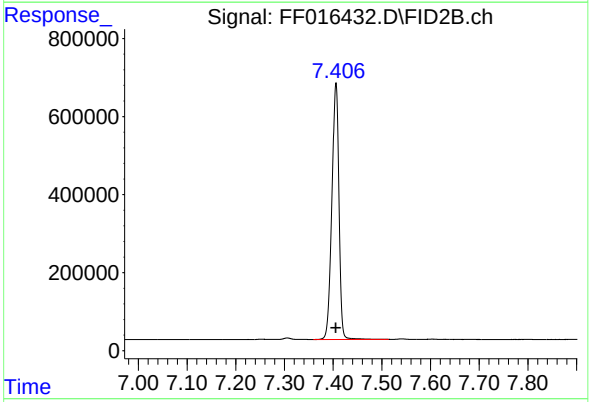
R.T.: 4.627 min
Delta R.T.: 0.000 min
Response: 6249533
Conc: 47.22 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



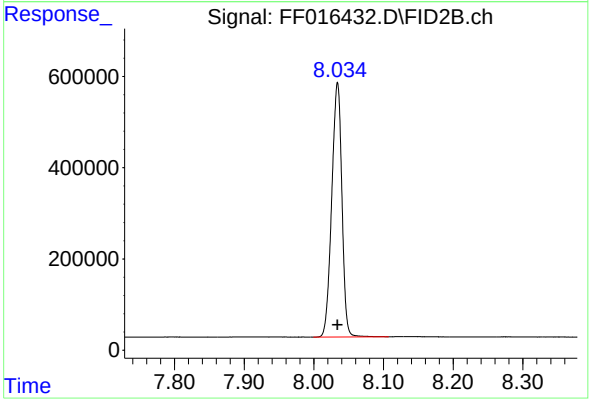
#2 Naphthalene (C11.7)

R.T.: 6.304 min
Delta R.T.: 0.000 min
Response: 6533060
Conc: 47.24 ug/ml



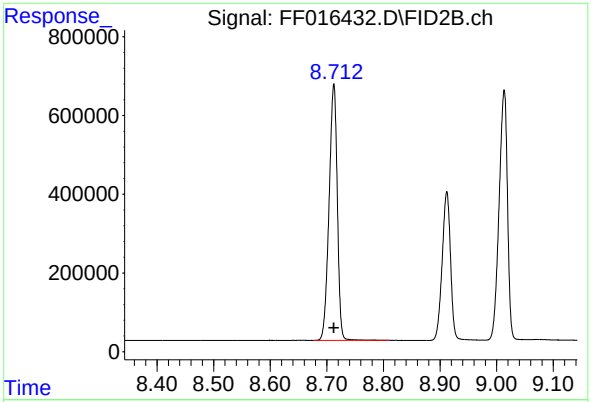
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.406 min
Delta R.T.: 0.000 min
Response: 6650030
Conc: 47.30 ug/ml



#4 2-Bromonaphthalene (SURR)

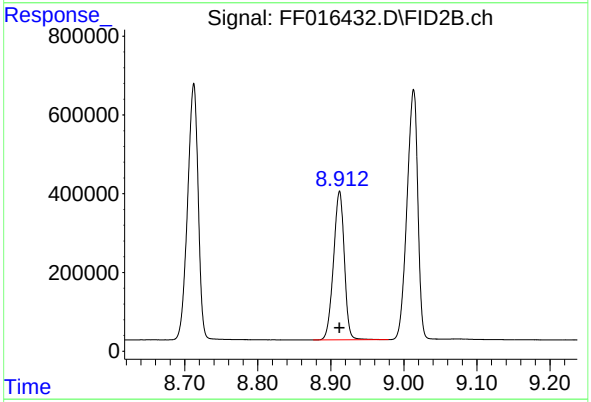
R.T.: 8.034 min
Delta R.T.: 0.000 min
Response: 5654549
Conc: 47.31 ug/ml



#5 Acenaphthylene (C15.06)

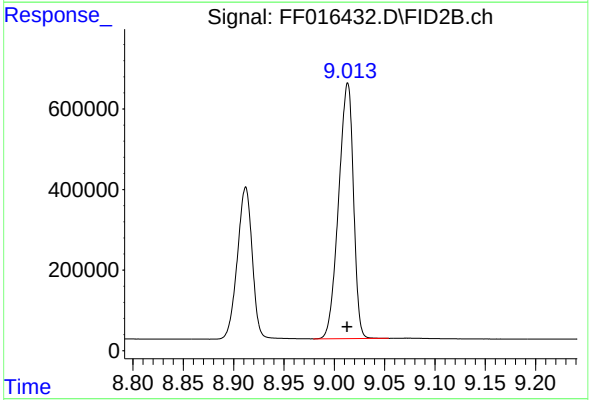
R.T.: 8.712 min
Delta R.T.: 0.000 min
Response: 6564172
Conc: 47.43 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



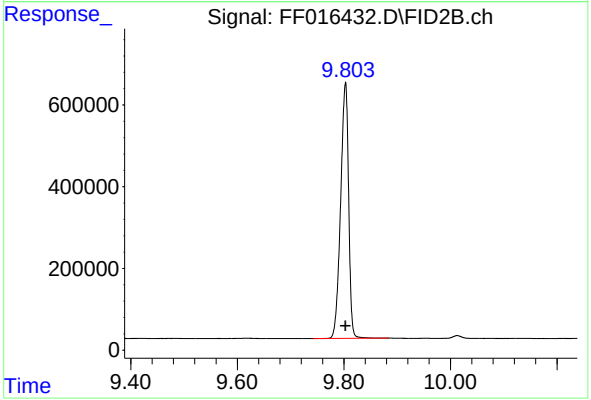
#6 2-Flurobiphenyl (SURR)

R.T.: 8.912 min
Delta R.T.: 0.000 min
Response: 3878601
Conc: 47.45 ug/ml



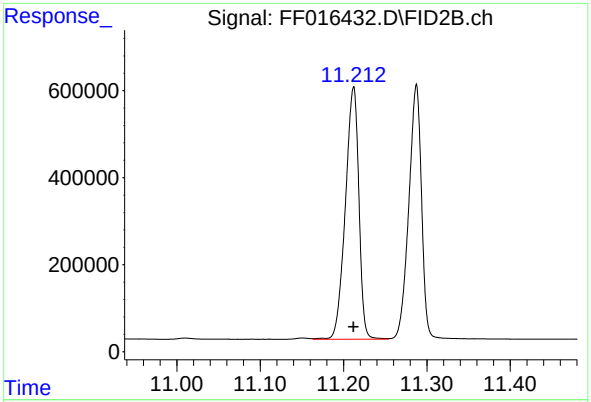
#7 Acenaphthene (C15.5)

R.T.: 9.013 min
Delta R.T.: 0.000 min
Response: 6513589
Conc: 47.50 ug/ml



#8 Flouorene (C16.55)

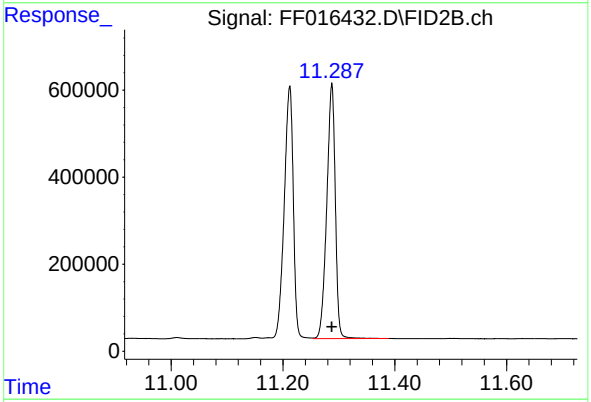
R.T.: 9.803 min
Delta R.T.: 0.000 min
Response: 6507793
Conc: 47.21 ug/ml



#9 Phenanthrene (C19.36)

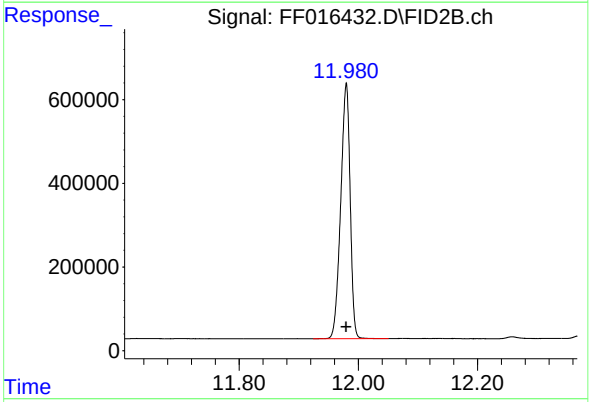
R.T.: 11.212 min
Delta R.T.: 0.000 min
Response: 6532119
Conc: 47.36 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



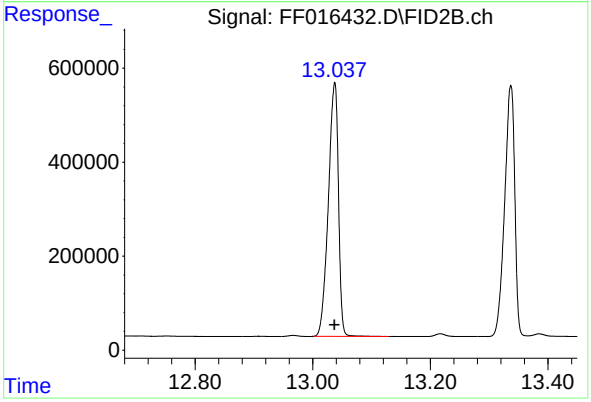
#10 Anthracene (C19.43)

R.T.: 11.287 min
Delta R.T.: 0.000 min
Response: 6223741
Conc: 47.10 ug/ml



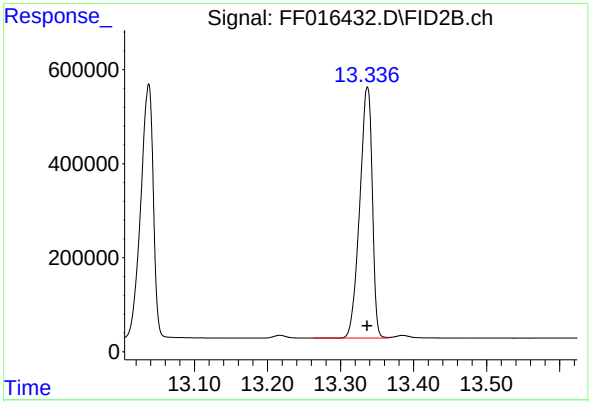
#11 ortho-Terphenyl (SURR)

R.T.: 11.980 min
Delta R.T.: 0.000 min
Response: 6709235
Conc: 47.28 ug/ml



#12 Fluoranthene (C21.85)

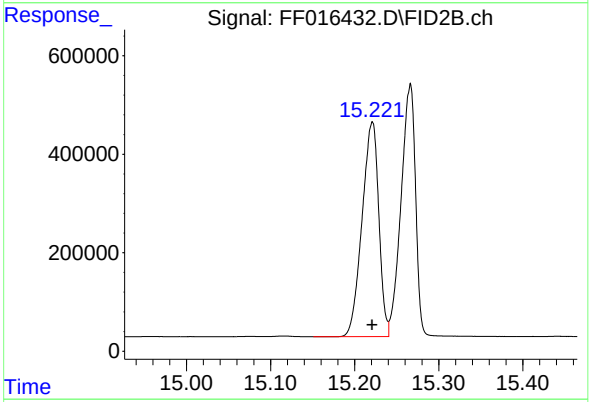
R.T.: 13.037 min
Delta R.T.: 0.000 min
Response: 6442747
Conc: 47.24 ug/ml



#13 Pyrene (C20.8)

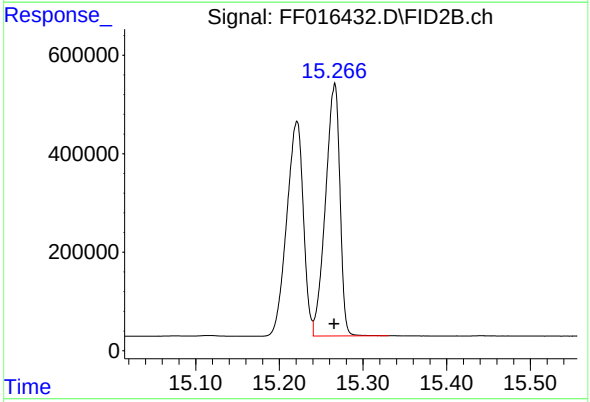
R.T.: 13.337 min
Delta R.T.: 0.000 min
Response: 6369315
Conc: 47.40 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



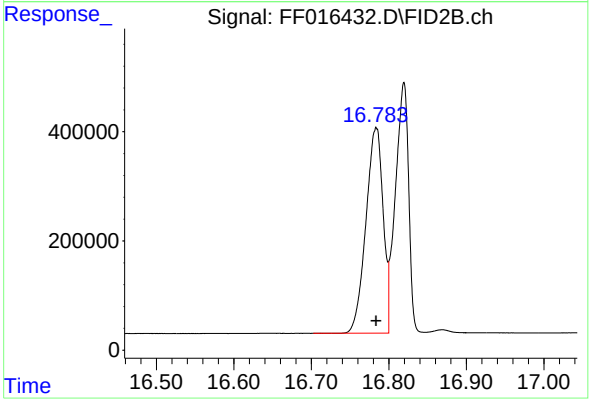
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.221 min
Delta R.T.: 0.000 min
Response: 6018657
Conc: 47.24 ug/ml



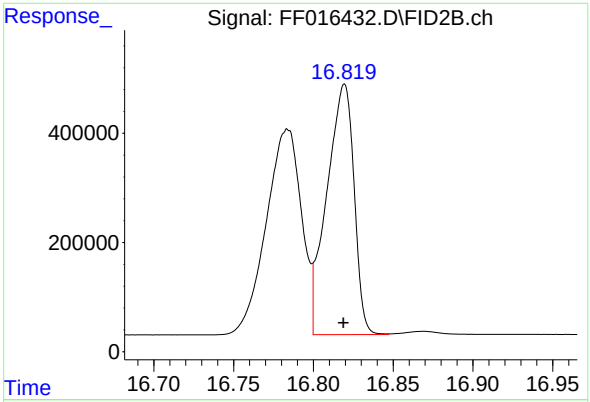
#15 Chrysene (C27.41)

R.T.: 15.266 min
Delta R.T.: 0.000 min
Response: 6125610
Conc: 47.09 ug/ml



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

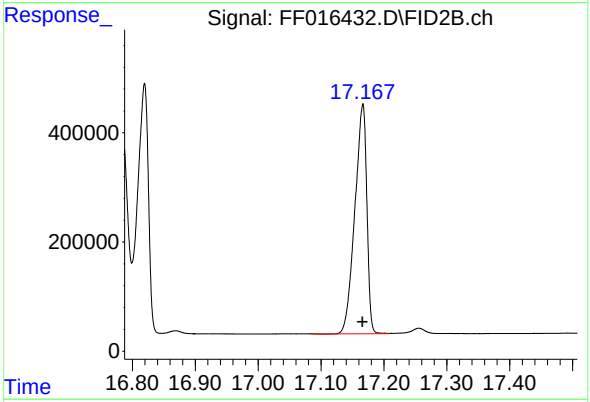
R.T.: 16.783 min
Delta R.T.: 0.000 min
Response: 5795694
Conc: 47.15 ug/ml



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

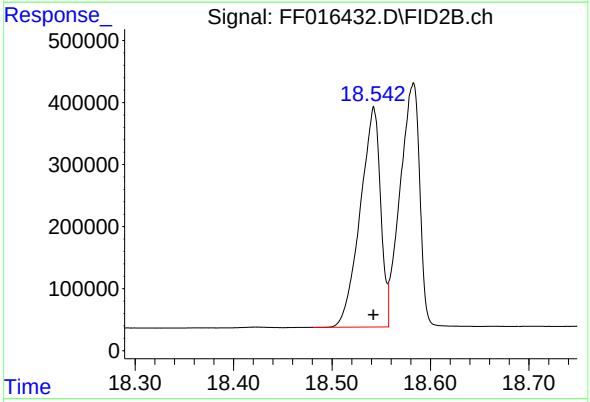
R.T.: 16.819 min
Delta R.T.: 0.000 min
Response: 5445729
Conc: 47.10 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



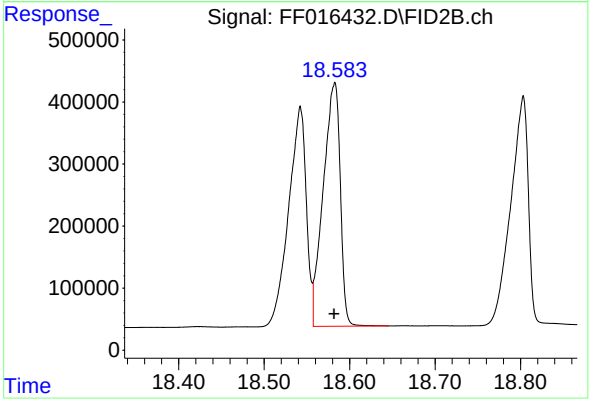
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.166 min
Delta R.T.: 0.000 min
Response: 5558378
Conc: 47.08 ug/ml



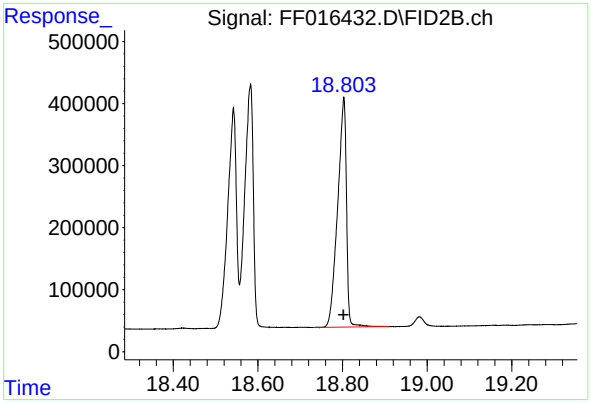
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

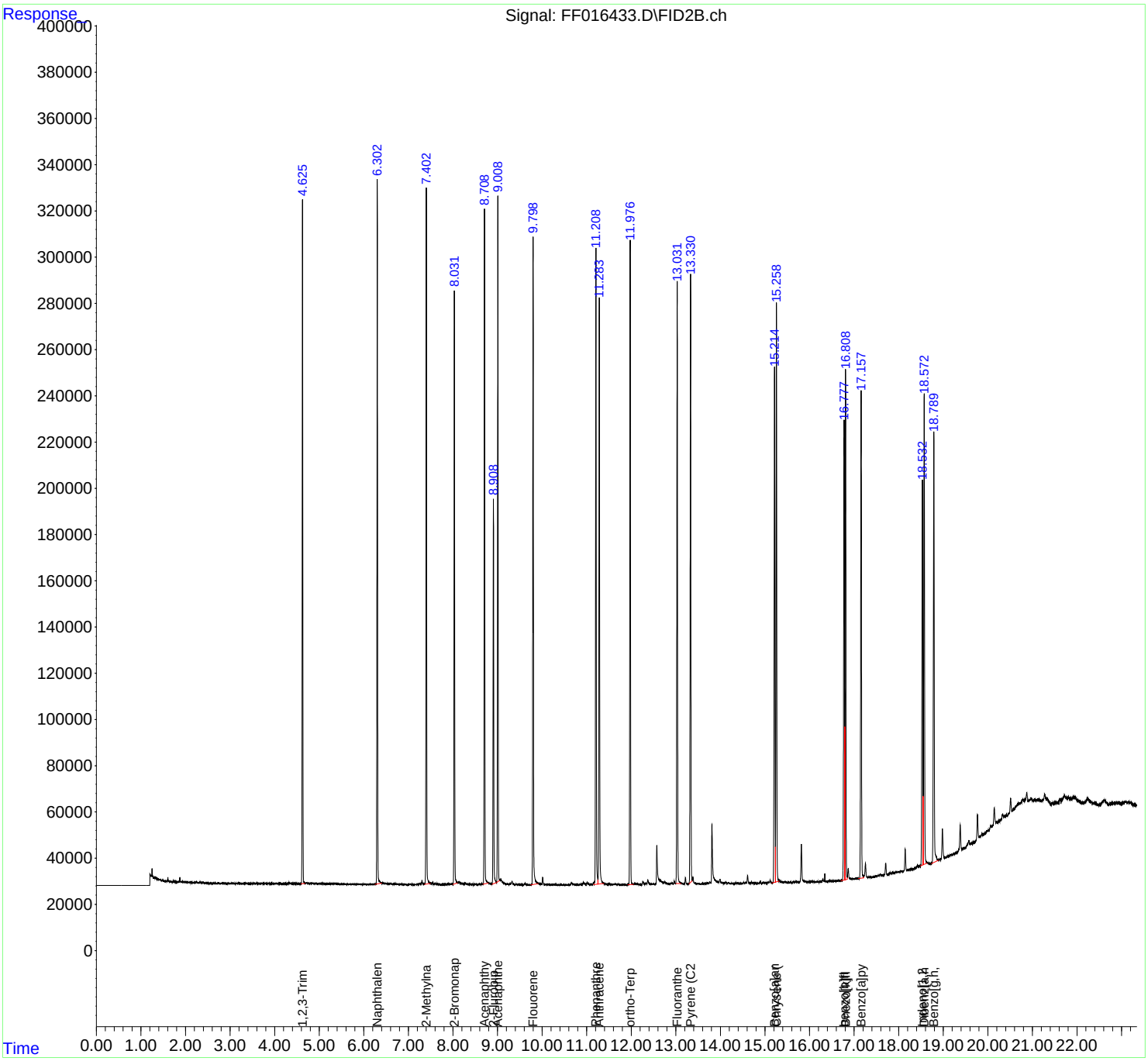
(f)=RT Delta > 1/2 Window (m)=manual int.

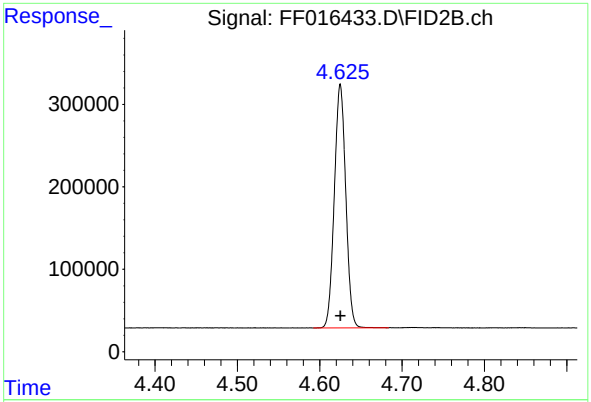
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016433.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 14:59
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 73 Sample Multiplier: 1

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

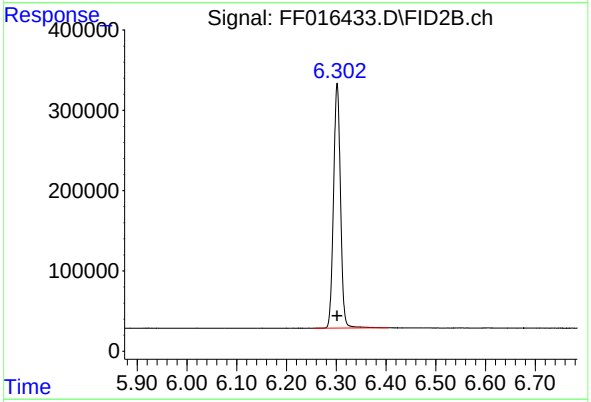




#1 1,2,3-Trimethylbenzene (C10.1)

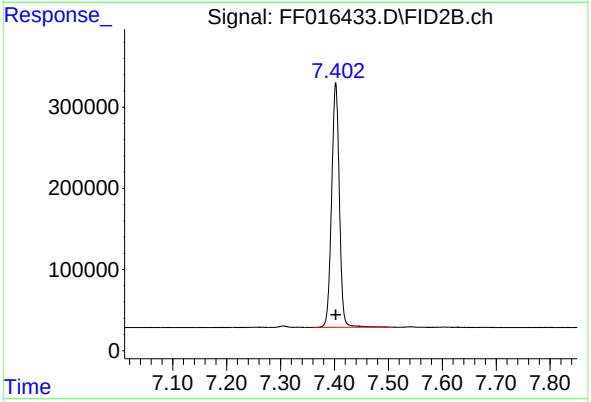
R.T.: 4.625 min
Delta R.T.: 0.000 min
Response: 2848825
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



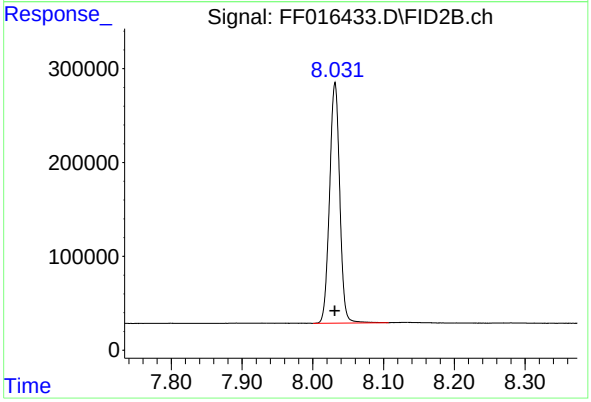
#2 Naphthalene (C11.7)

R.T.: 6.302 min
Delta R.T.: 0.000 min
Response: 2963269
Conc: 20.00 ug/ml



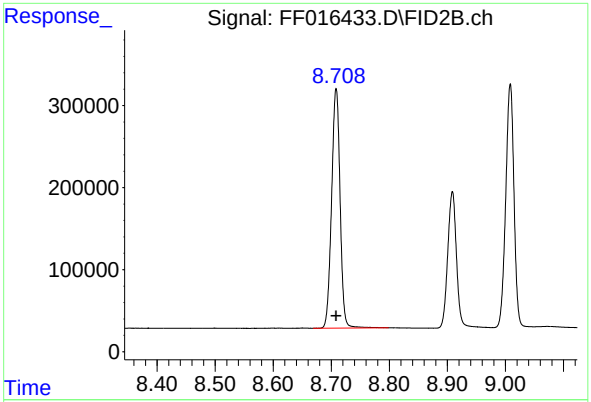
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.402 min
Delta R.T.: 0.000 min
Response: 3011112
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

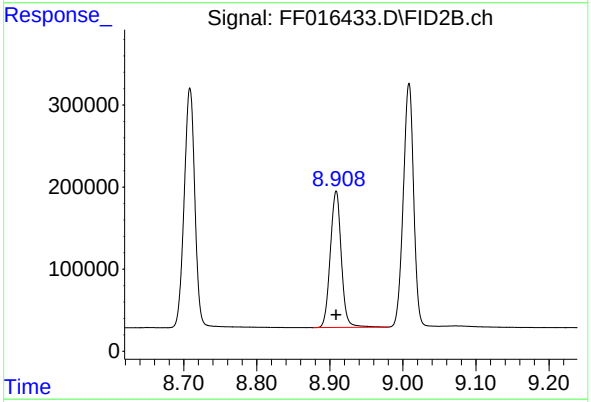
R.T.: 8.031 min
Delta R.T.: 0.000 min
Response: 2558337
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

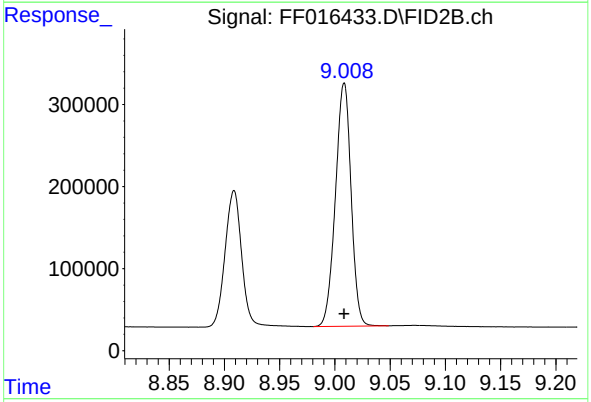
R.T.: 8.708 min
Delta R.T.: 0.000 min
Response: 2963322
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



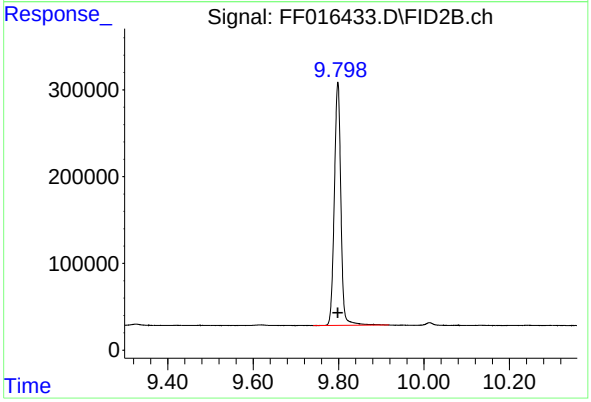
#6 2-Flurobiphenyl (SURR)

R.T.: 8.909 min
Delta R.T.: 0.000 min
Response: 1741301
Conc: 20.00 ug/ml



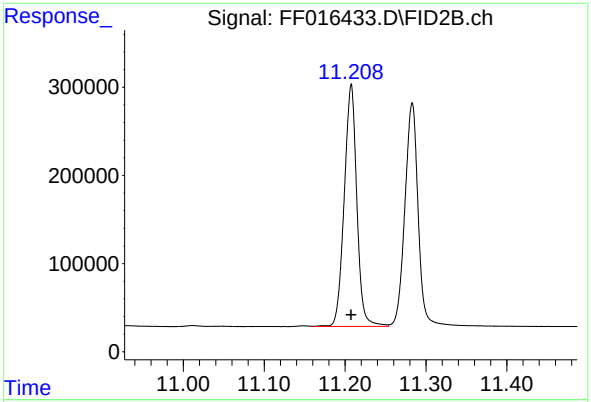
#7 Acenaphthene (C15.5)

R.T.: 9.008 min
Delta R.T.: 0.000 min
Response: 2919556
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

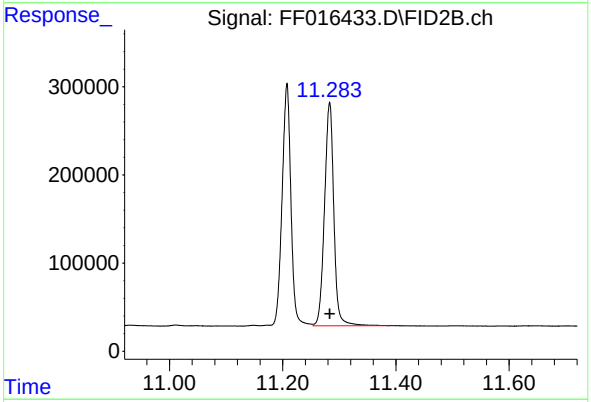
R.T.: 9.798 min
Delta R.T.: 0.000 min
Response: 2976884
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

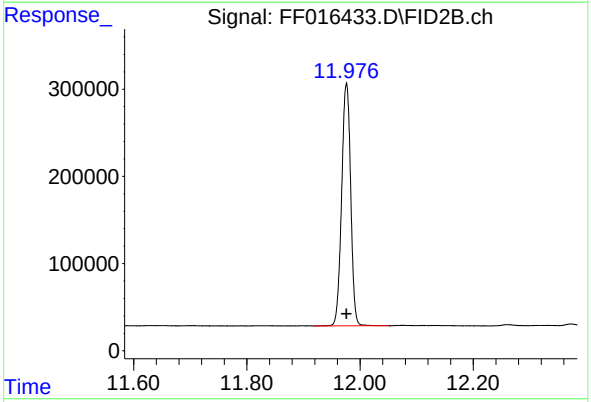
R.T.: 11.207 min
Delta R.T.: 0.000 min
Response: 2975729
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



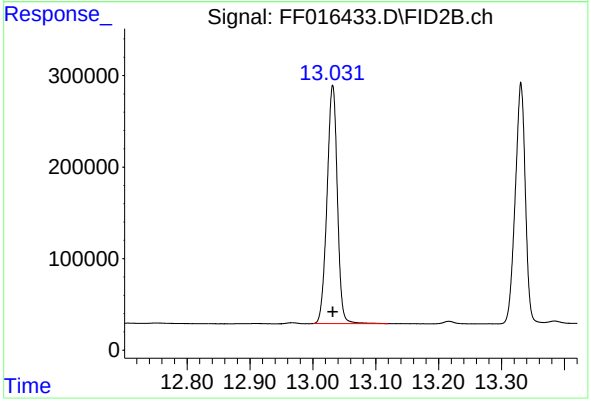
#10 Anthracene (C19.43)

R.T.: 11.283 min
Delta R.T.: 0.000 min
Response: 2893687
Conc: 20.00 ug/ml



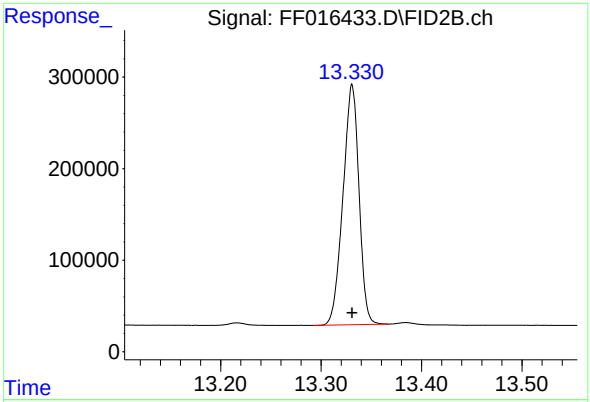
#11 ortho-Terphenyl (SURR)

R.T.: 11.976 min
Delta R.T.: 0.000 min
Response: 3079552
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

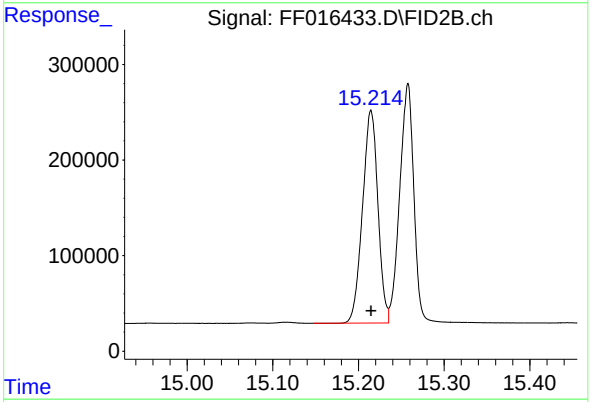
R.T.: 13.032 min
Delta R.T.: 0.000 min
Response: 2967546
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

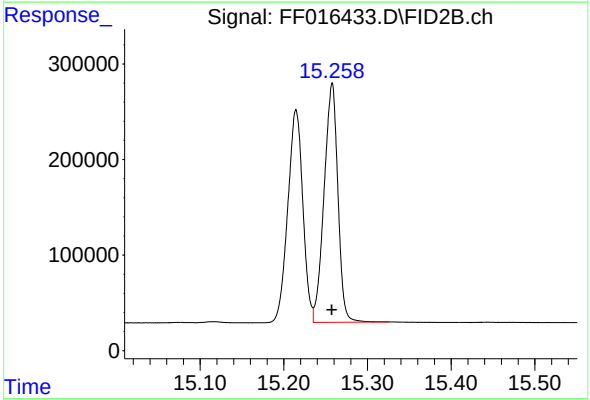
R.T.: 13.331 min
Delta R.T.: 0.000 min
Response: 2908519
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



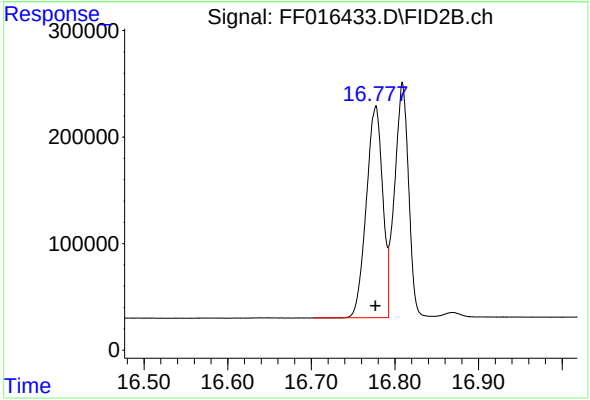
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.215 min
Delta R.T.: 0.000 min
Response: 2776618
Conc: 20.00 ug/ml



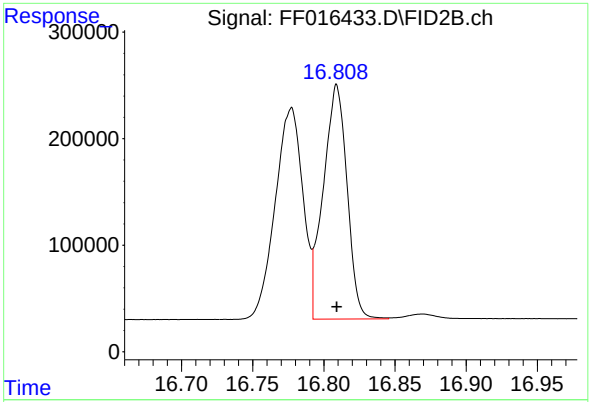
#15 Chrysene (C27.41)

R.T.: 15.257 min
Delta R.T.: 0.000 min
Response: 2862862
Conc: 20.00 ug/ml



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

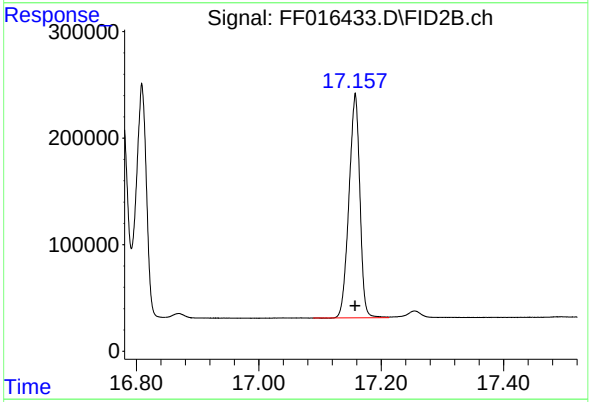
R.T.: 16.777 min
Delta R.T.: 0.000 min
Response: 2696749
Conc: 20.00 ug/ml



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

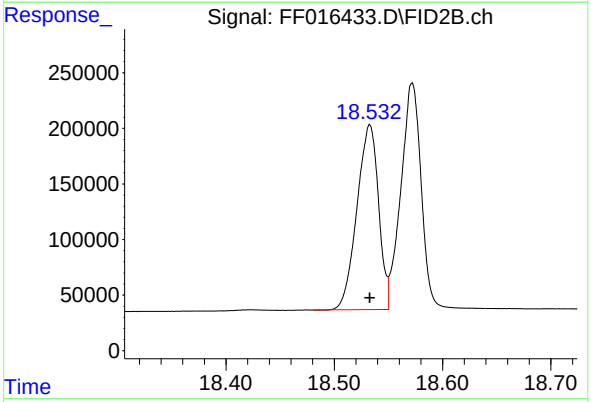
R.T.: 16.809 min
Delta R.T.: 0.000 min
Response: 2560301
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



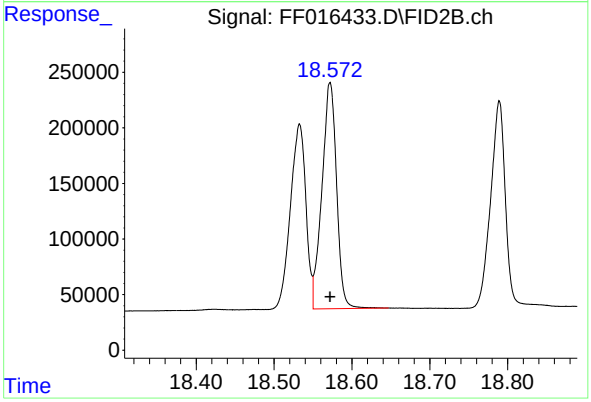
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.157 min
Delta R.T.: 0.000 min
Response: 2599389
Conc: 20.00 ug/ml



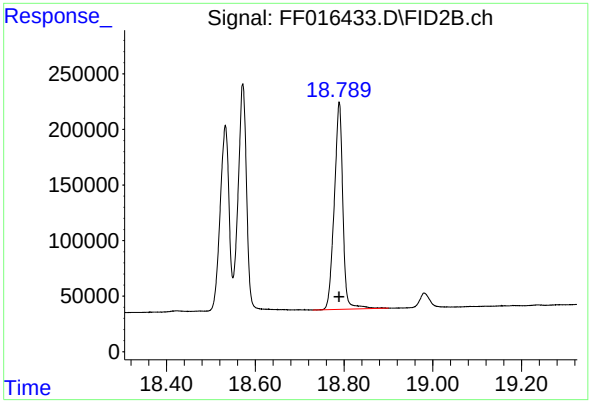
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

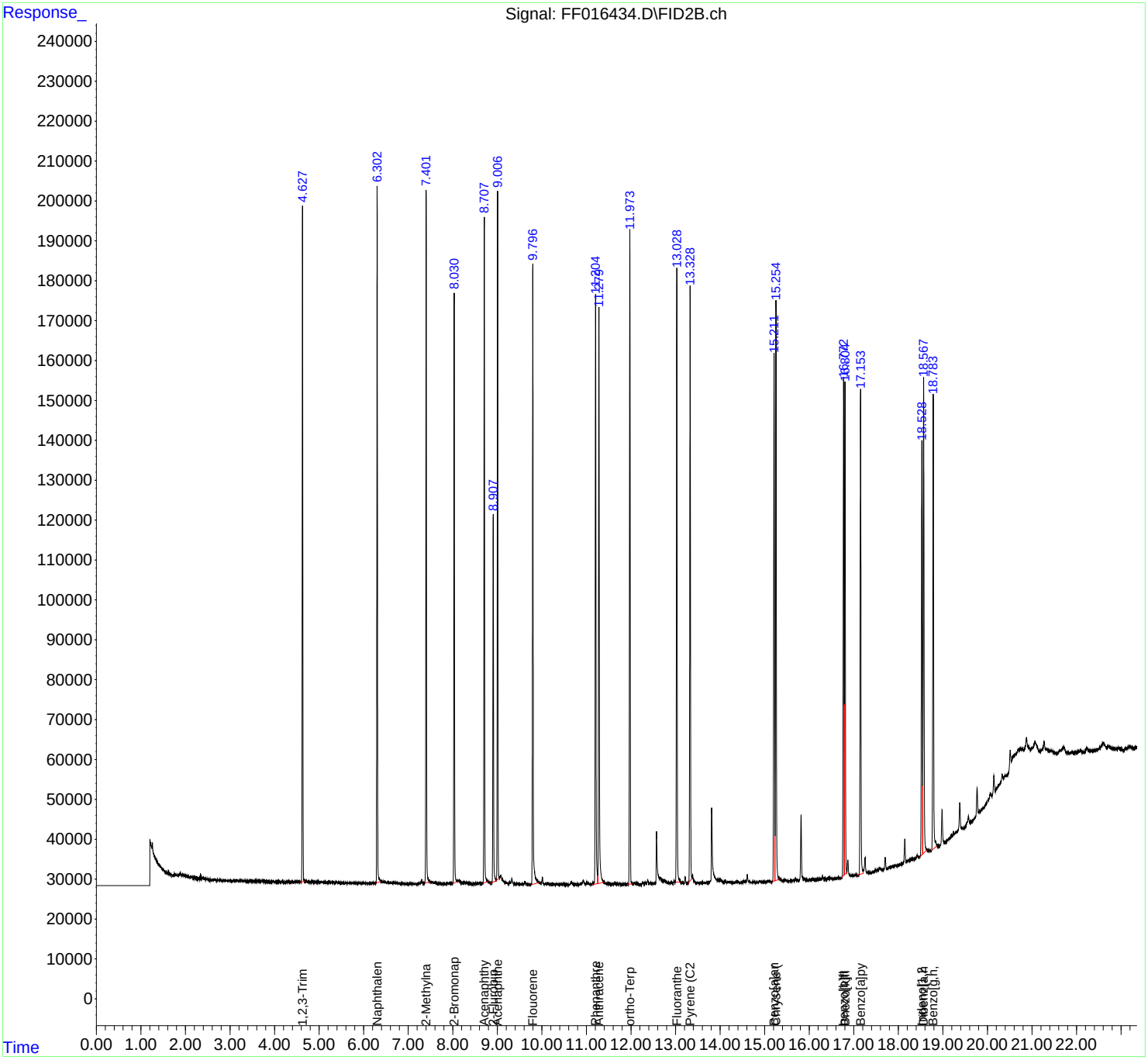
(f)=RT Delta > 1/2 Window (m)=manual int.

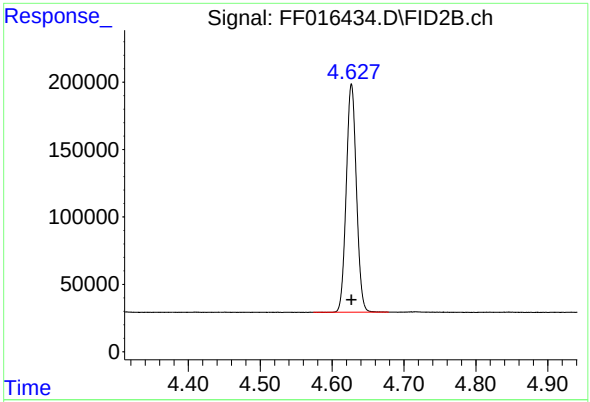
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016434.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 15:28
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 74 Sample Multiplier: 1

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

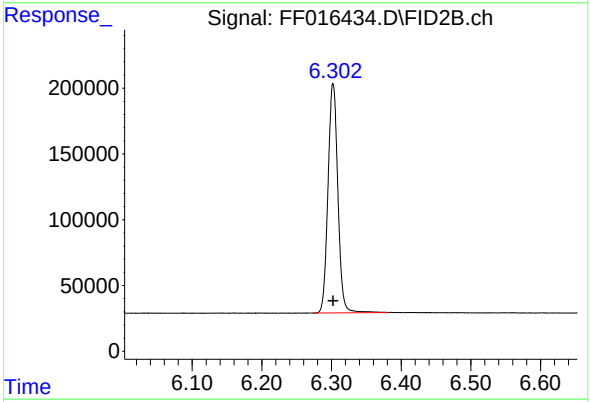




#1 1,2,3-Trimethylbenzene (C10.1)

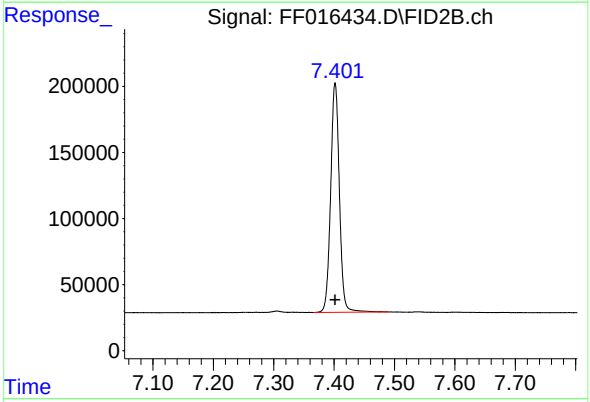
R.T.: 4.627 min
Delta R.T.: 0.000 min
Response: 1662196
Conc: 11.80 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



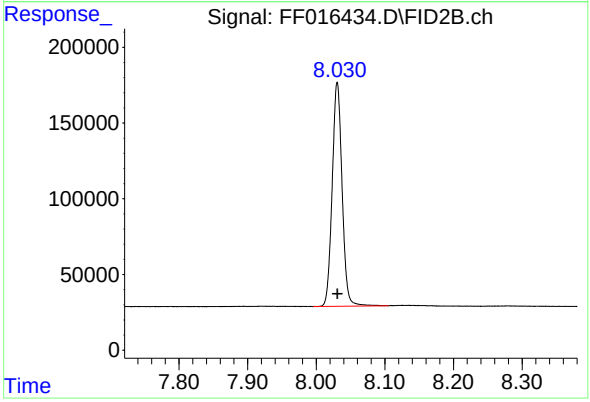
#2 Naphthalene (C11.7)

R.T.: 6.302 min
Delta R.T.: 0.000 min
Response: 1716476
Conc: 11.71 ug/ml



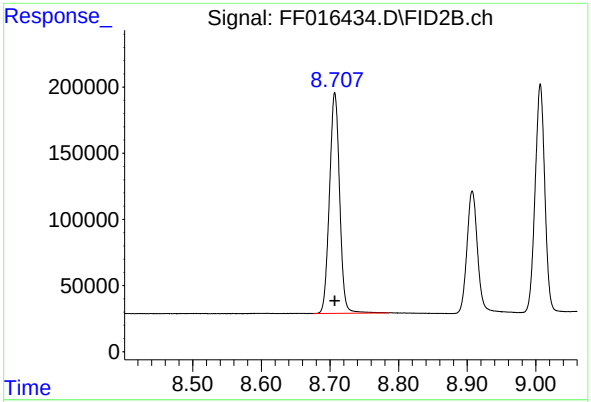
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.402 min
Delta R.T.: 0.000 min
Response: 1742677
Conc: 11.70 ug/ml



#4 2-Bromonaphthalene (SURR)

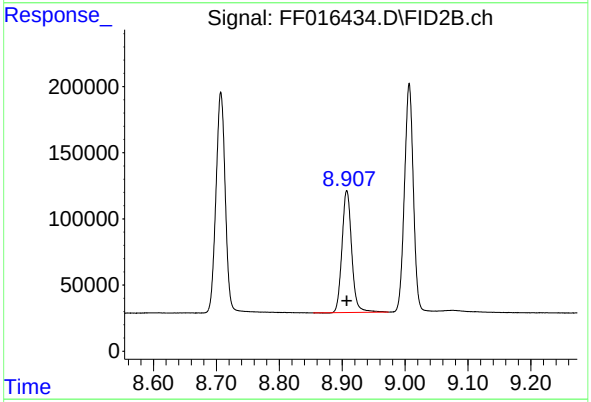
R.T.: 8.031 min
Delta R.T.: 0.000 min
Response: 1481517
Conc: 11.70 ug/ml



#5 Acenaphthylene (C15.06)

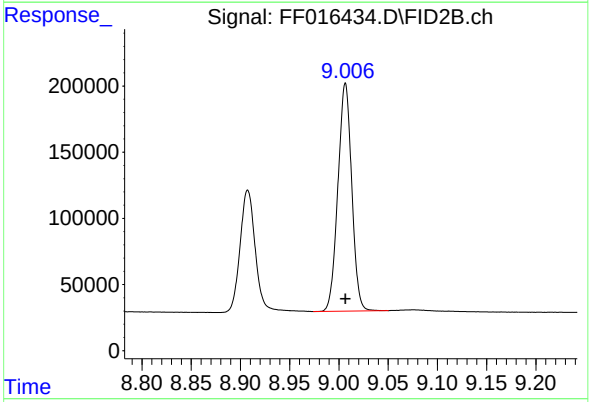
R.T.: 8.707 min
Delta R.T.: 0.000 min
Response: 1714200
Conc: 11.69 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



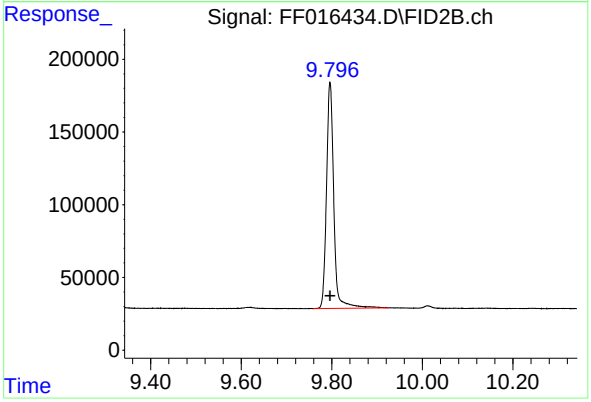
#6 2-Flurobiphenyl (SURR)

R.T.: 8.907 min
Delta R.T.: 0.000 min
Response: 988395
Conc: 11.49 ug/ml



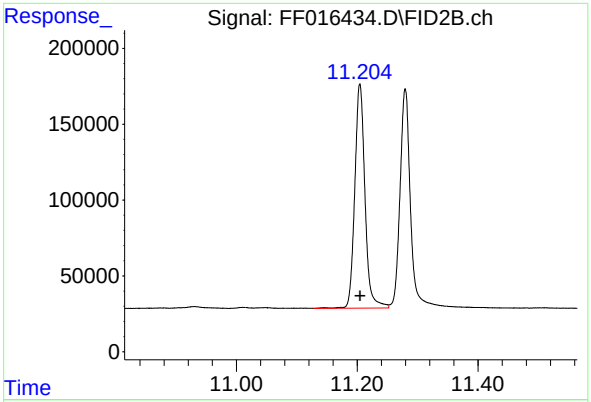
#7 Acenaphthene (C15.5)

R.T.: 9.007 min
Delta R.T.: 0.000 min
Response: 1683417
Conc: 11.62 ug/ml



#8 Flouorene (C16.55)

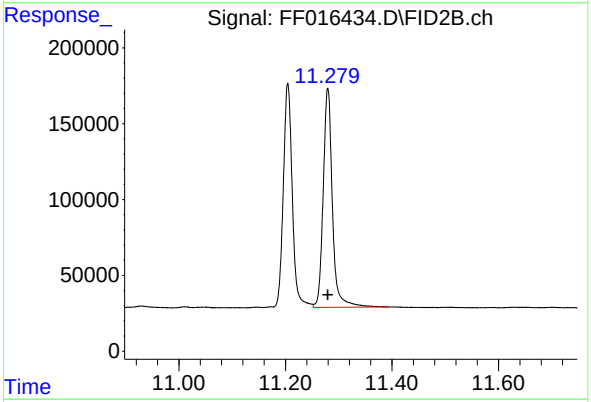
R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 1736875
Conc: 11.83 ug/ml



#9 Phenanthrene (C19.36)

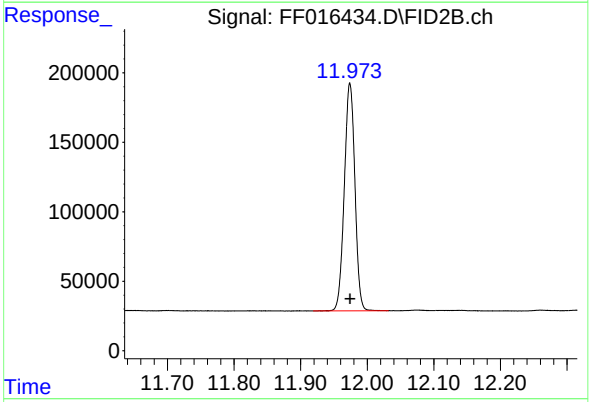
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 1732603
Conc: 11.81 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



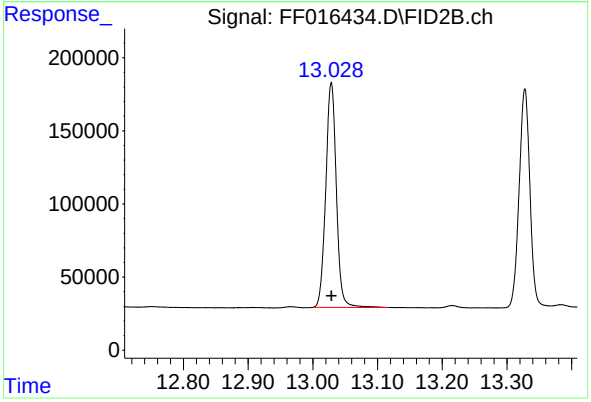
#10 Anthracene (C19.43)

R.T.: 11.280 min
Delta R.T.: 0.000 min
Response: 1733091
Conc: 12.17 ug/ml



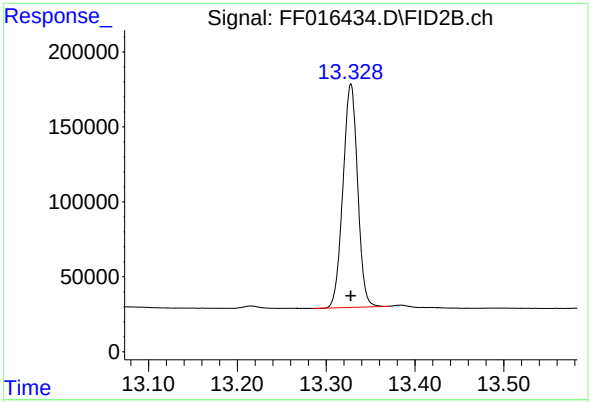
#11 ortho-Terphenyl (SURR)

R.T.: 11.974 min
Delta R.T.: 0.000 min
Response: 1809727
Conc: 11.93 ug/ml



#12 Fluoranthene (C21.85)

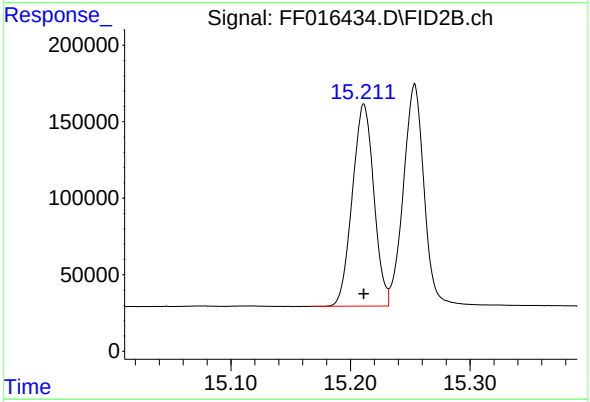
R.T.: 13.029 min
Delta R.T.: 0.000 min
Response: 1749056
Conc: 11.98 ug/ml



#13 Pyrene (C20.8)

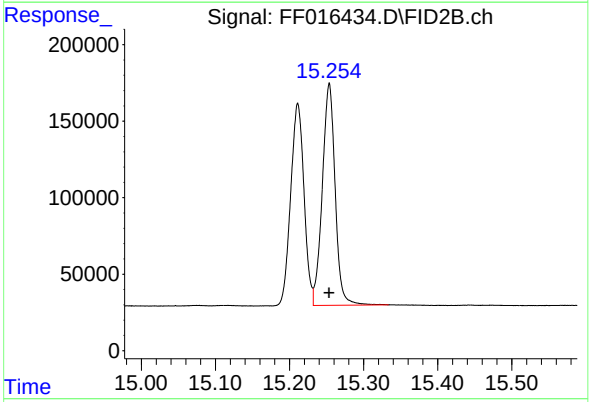
R.T.: 13.328 min
Delta R.T.: 0.000 min
Response: 1709506
Conc: 11.91 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



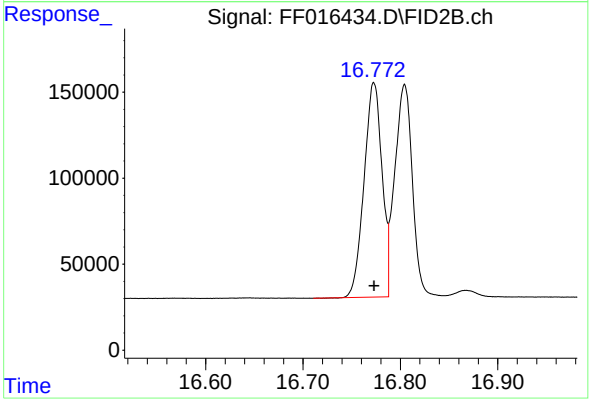
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.211 min
Delta R.T.: 0.000 min
Response: 1649438
Conc: 12.06 ug/ml



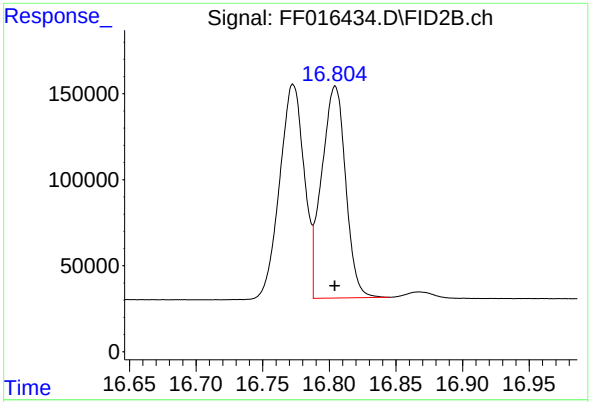
#15 Chrysene (C27.41)

R.T.: 15.254 min
Delta R.T.: 0.000 min
Response: 1745210
Conc: 12.36 ug/ml



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

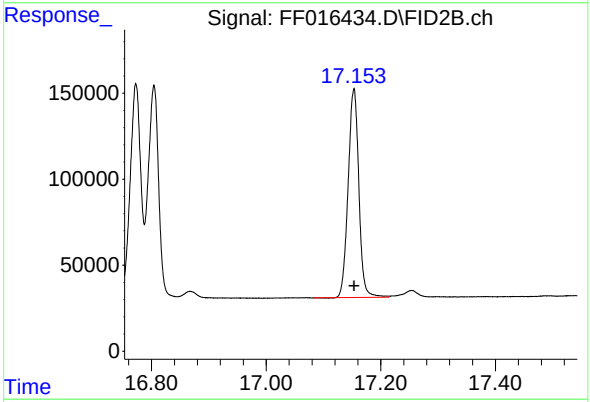
R.T.: 16.773 min
Delta R.T.: 0.000 min
Response: 1594531
Conc: 12.07 ug/ml



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

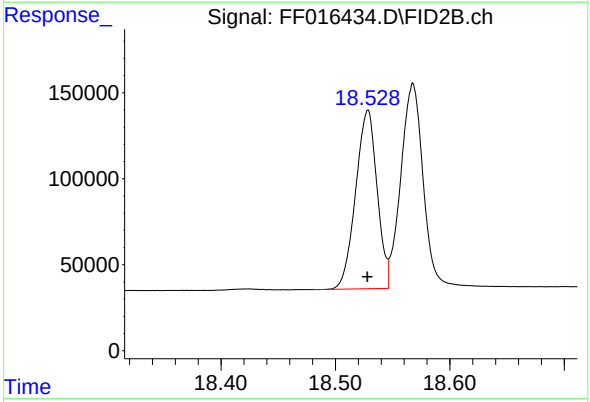
R.T.: 16.804 min
Delta R.T.: 0.000 min
Response: 1540396
Conc: 12.30 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



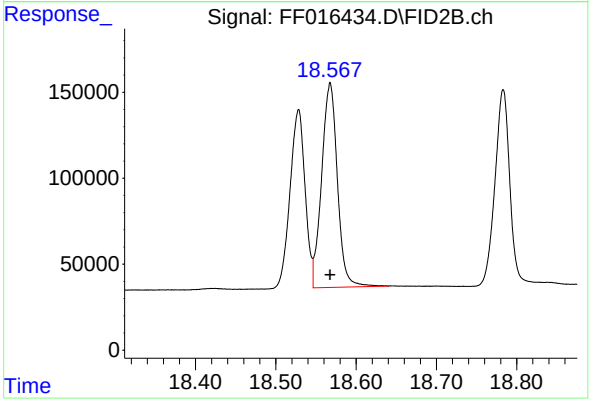
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.153 min
Delta R.T.: 0.000 min
Response: 1570961
Conc: 12.29 ug/ml



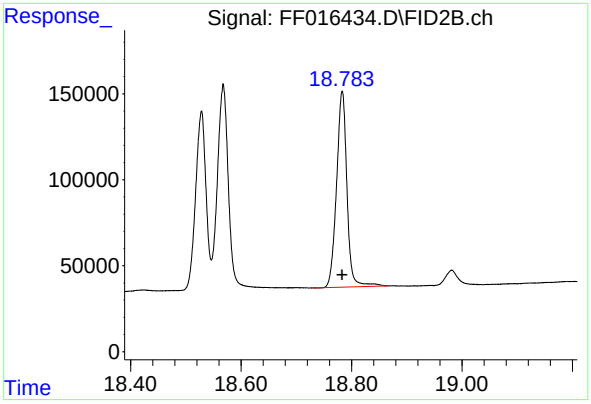
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

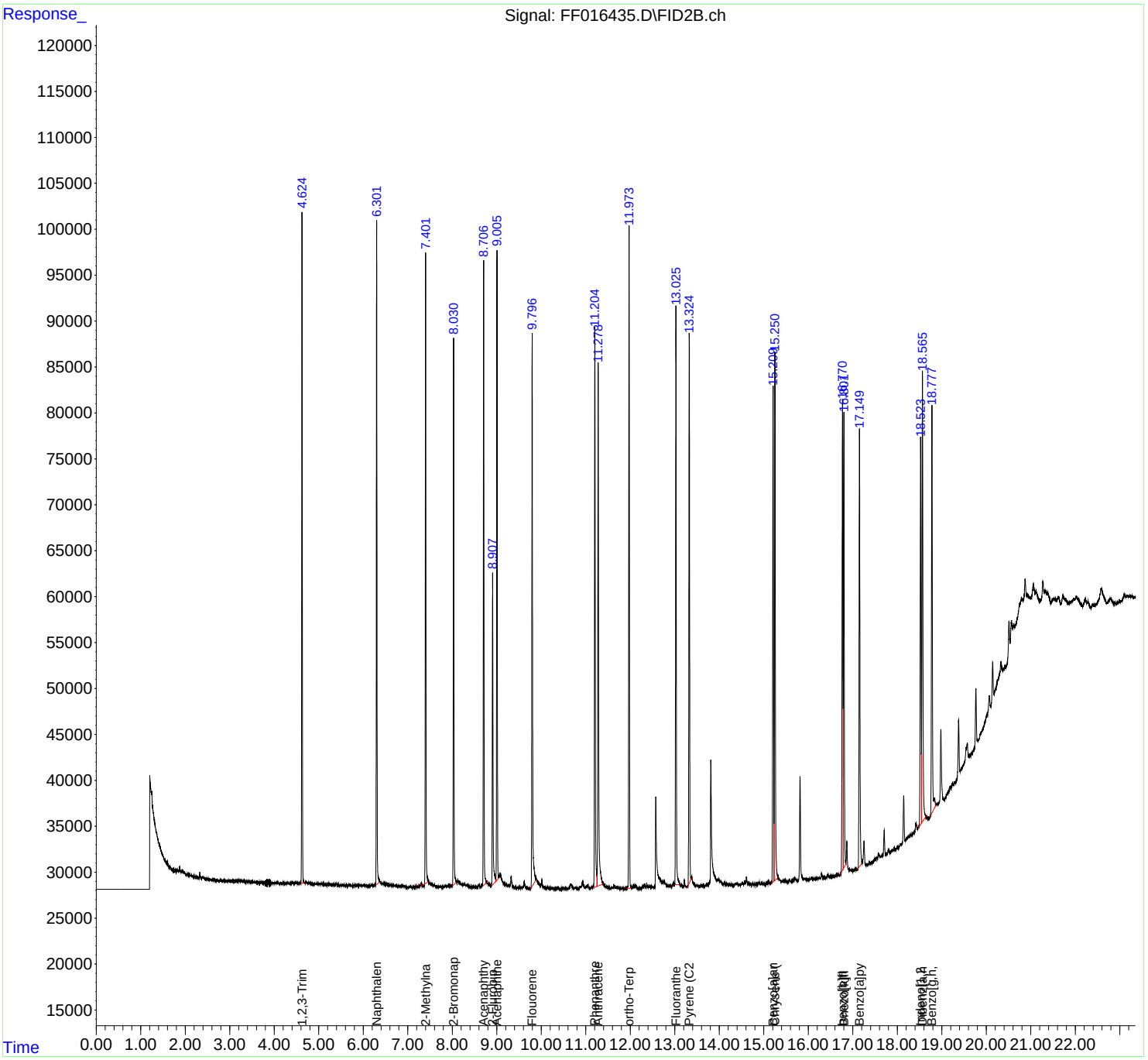
(f)=RT Delta > 1/2 Window (m)=manual int.

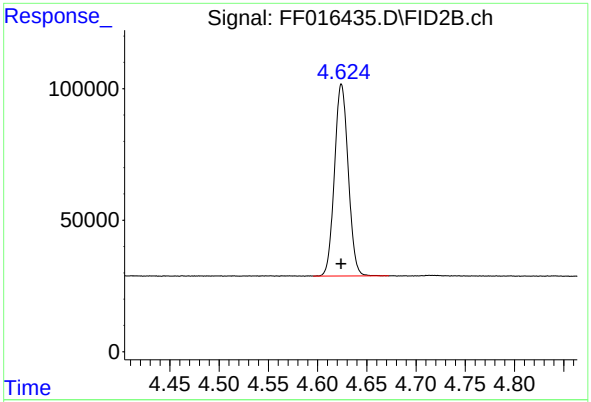
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016435.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 15:58
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 75 Sample Multiplier: 1

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

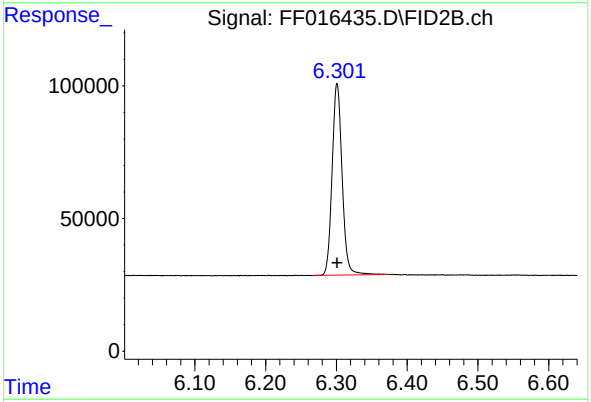




#1 1,2,3-Trimethylbenzene (C10.1)

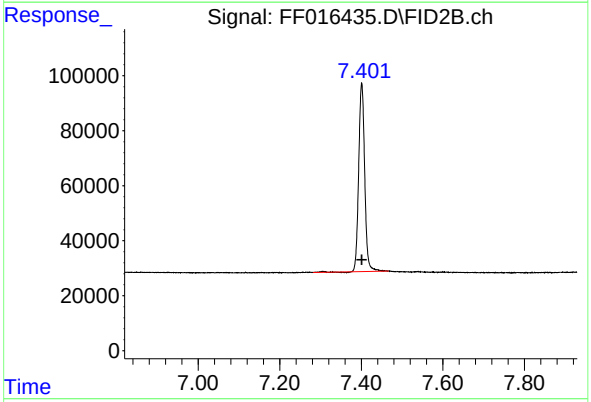
R.T.: 4.624 min
Delta R.T.: 0.000 min
Response: 707668
Conc: 5.02 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



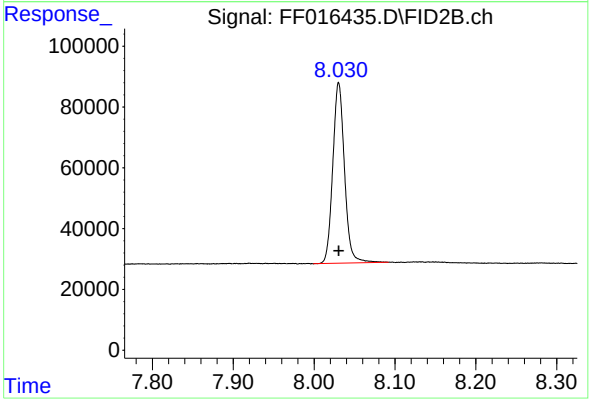
#2 Naphthalene (C11.7)

R.T.: 6.301 min
Delta R.T.: 0.000 min
Response: 709232
Conc: 4.87 ug/ml



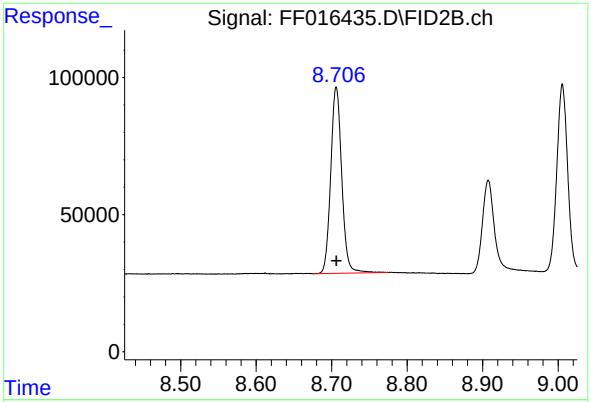
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.401 min
Delta R.T.: 0.000 min
Response: 700376
Conc: 4.76 ug/ml



#4 2-Bromonaphthalene (SURR)

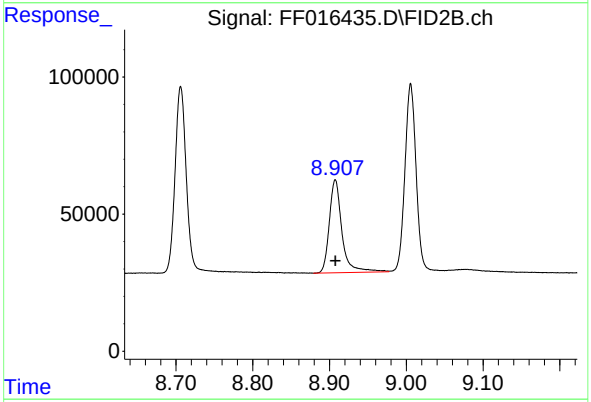
R.T.: 8.031 min
Delta R.T.: 0.000 min
Response: 598161
Conc: 4.78 ug/ml



#5 Acenaphthylene (C15.06)

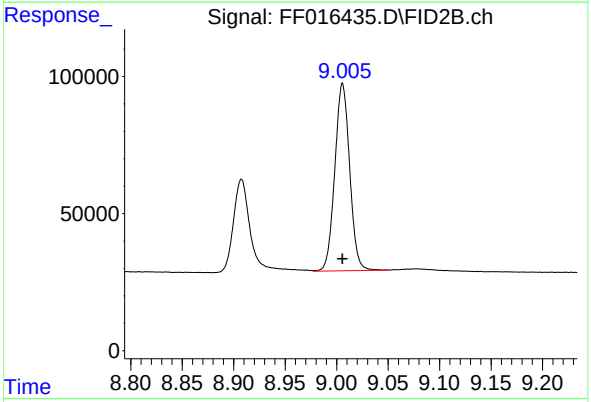
R.T.: 8.706 min
Delta R.T.: 0.000 min
Response: 690062
Conc: 4.76 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



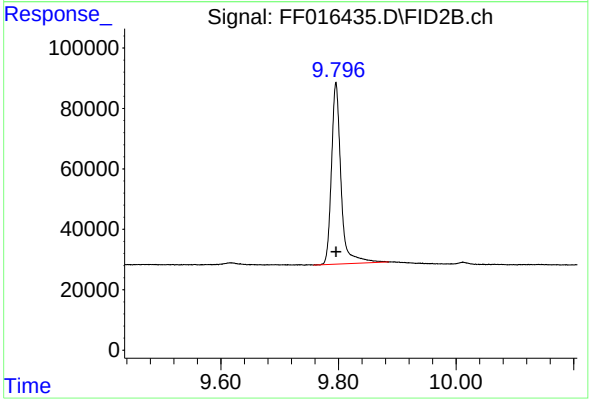
#6 2-Flurobiphenyl (SURR)

R.T.: 8.908 min
Delta R.T.: 0.000 min
Response: 388157
Conc: 4.60 ug/ml



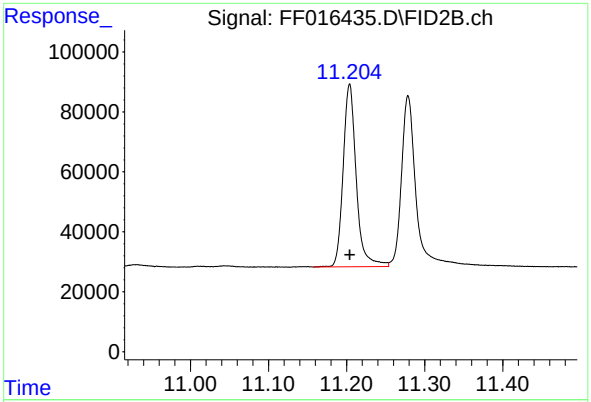
#7 Acenaphthene (C15.5)

R.T.: 9.006 min
Delta R.T.: 0.000 min
Response: 686883
Conc: 4.79 ug/ml



#8 Flouorene (C16.55)

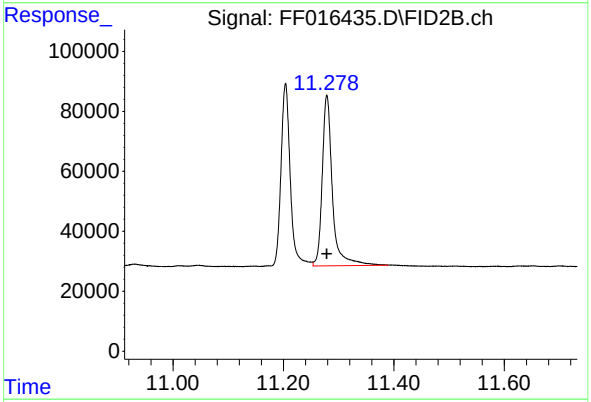
R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 675559
Conc: 4.68 ug/ml



#9 Phenanthrene (C19.36)

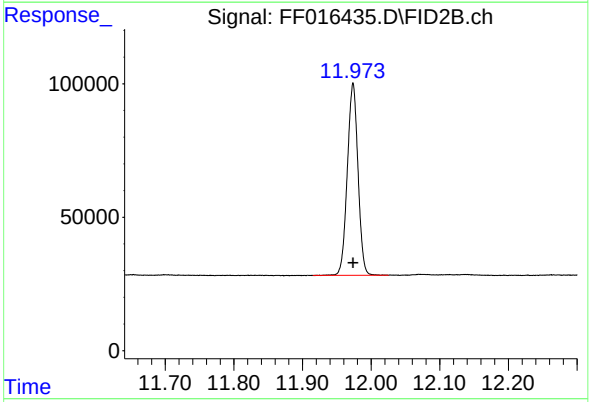
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 711069
Conc: 4.88 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



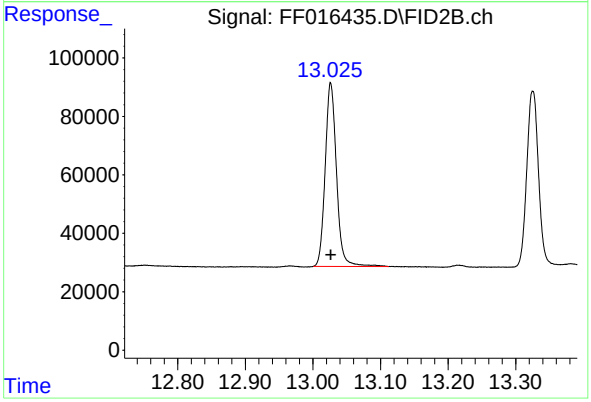
#10 Anthracene (C19.43)

R.T.: 11.279 min
Delta R.T.: 0.000 min
Response: 728208
Conc: 5.09 ug/ml



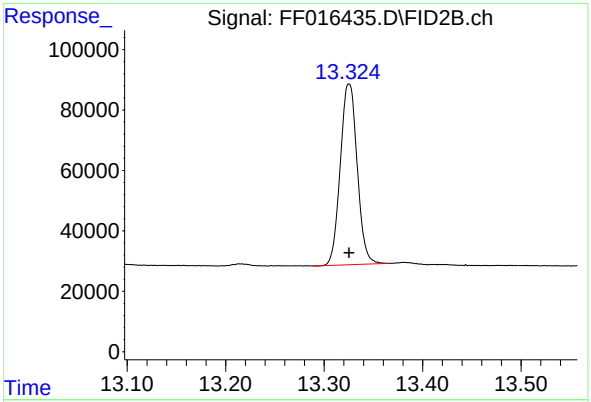
#11 ortho-Terphenyl (SURR)

R.T.: 11.974 min
Delta R.T.: 0.000 min
Response: 777849
Conc: 5.10 ug/ml



#12 Fluoranthene (C21.85)

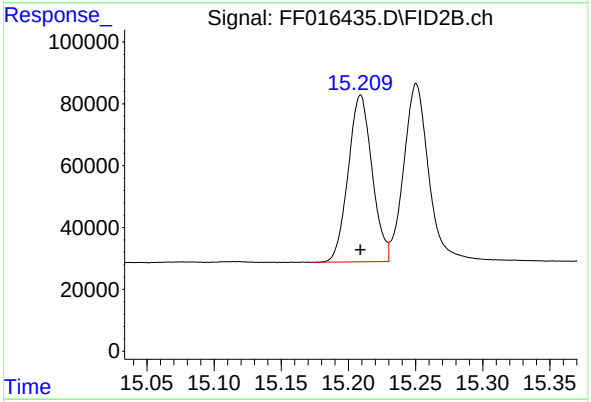
R.T.: 13.026 min
Delta R.T.: 0.000 min
Response: 730906
Conc: 5.00 ug/ml



#13 Pyrene (C20.8)

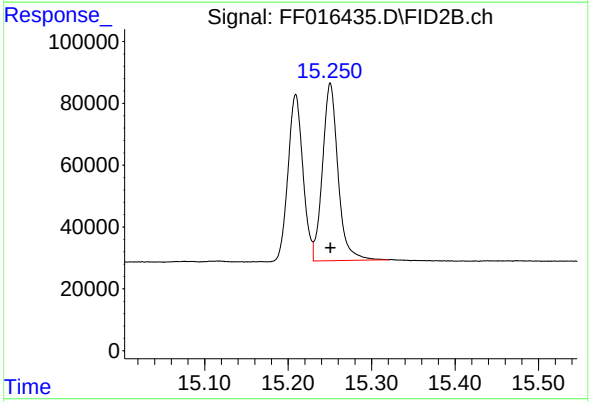
R.T.: 13.325 min
Delta R.T.: 0.000 min
Response: 712306
Conc: 4.97 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



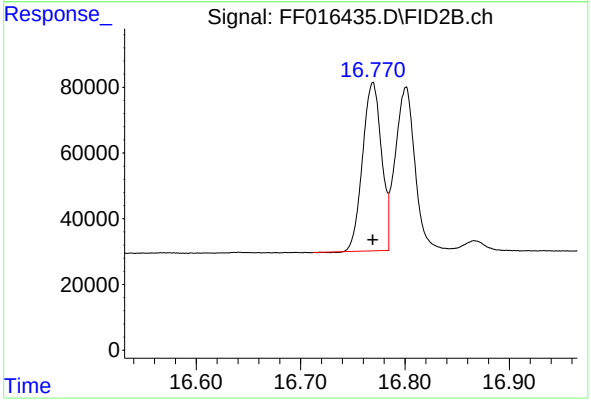
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.209 min
Delta R.T.: 0.000 min
Response: 667130
Conc: 4.90 ug/ml



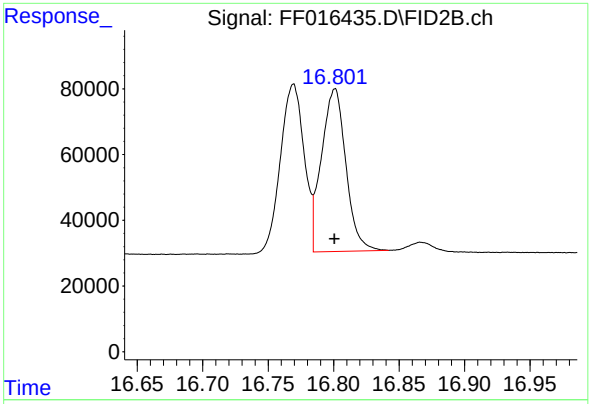
#15 Chrysene (C27.41)

R.T.: 15.251 min
Delta R.T.: 0.000 min
Response: 742138
Conc: 5.20 ug/ml



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

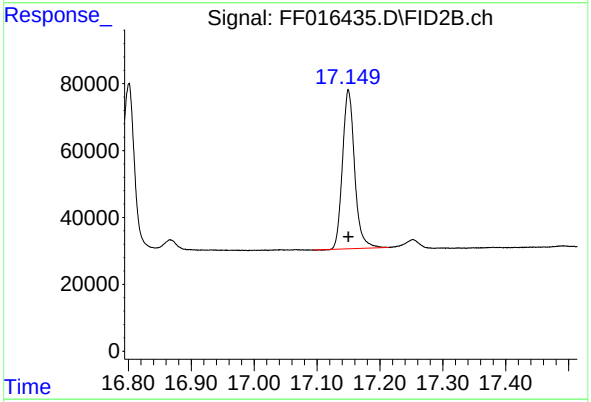
R.T.: 16.769 min
Delta R.T.: 0.000 min
Response: 643824
Conc: 4.90 ug/ml



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

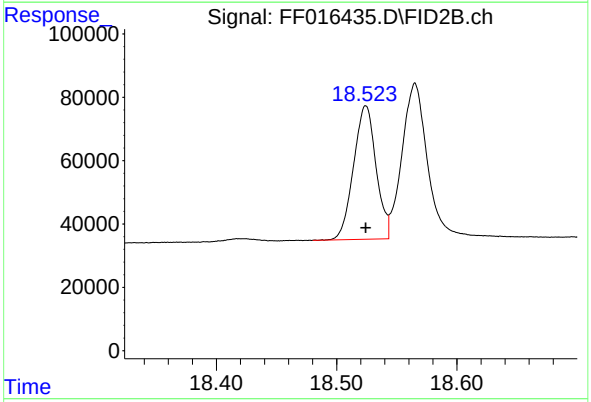
R.T.: 16.801 min
Delta R.T.: 0.000 min
Response: 642318
Conc: 5.10 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



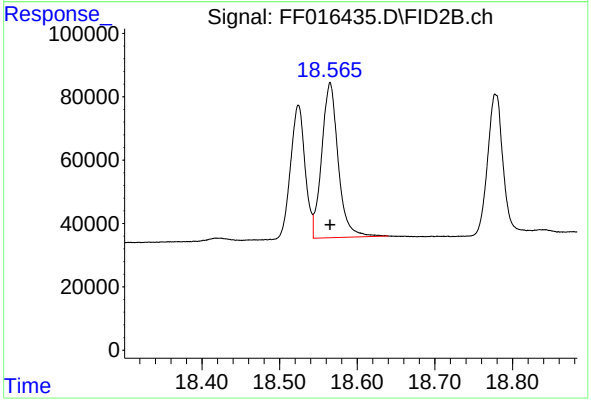
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.150 min
Delta R.T.: 0.000 min
Response: 635965
Conc: 4.98 ug/ml



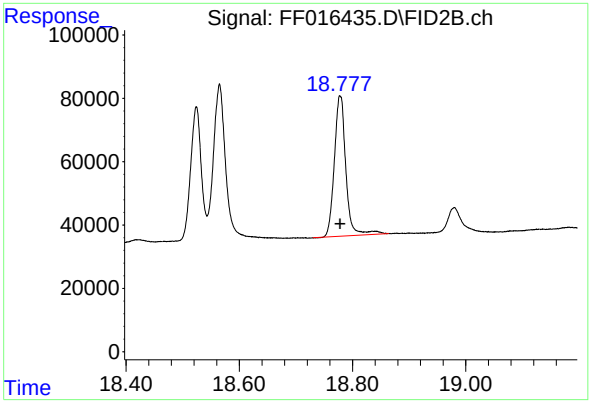
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

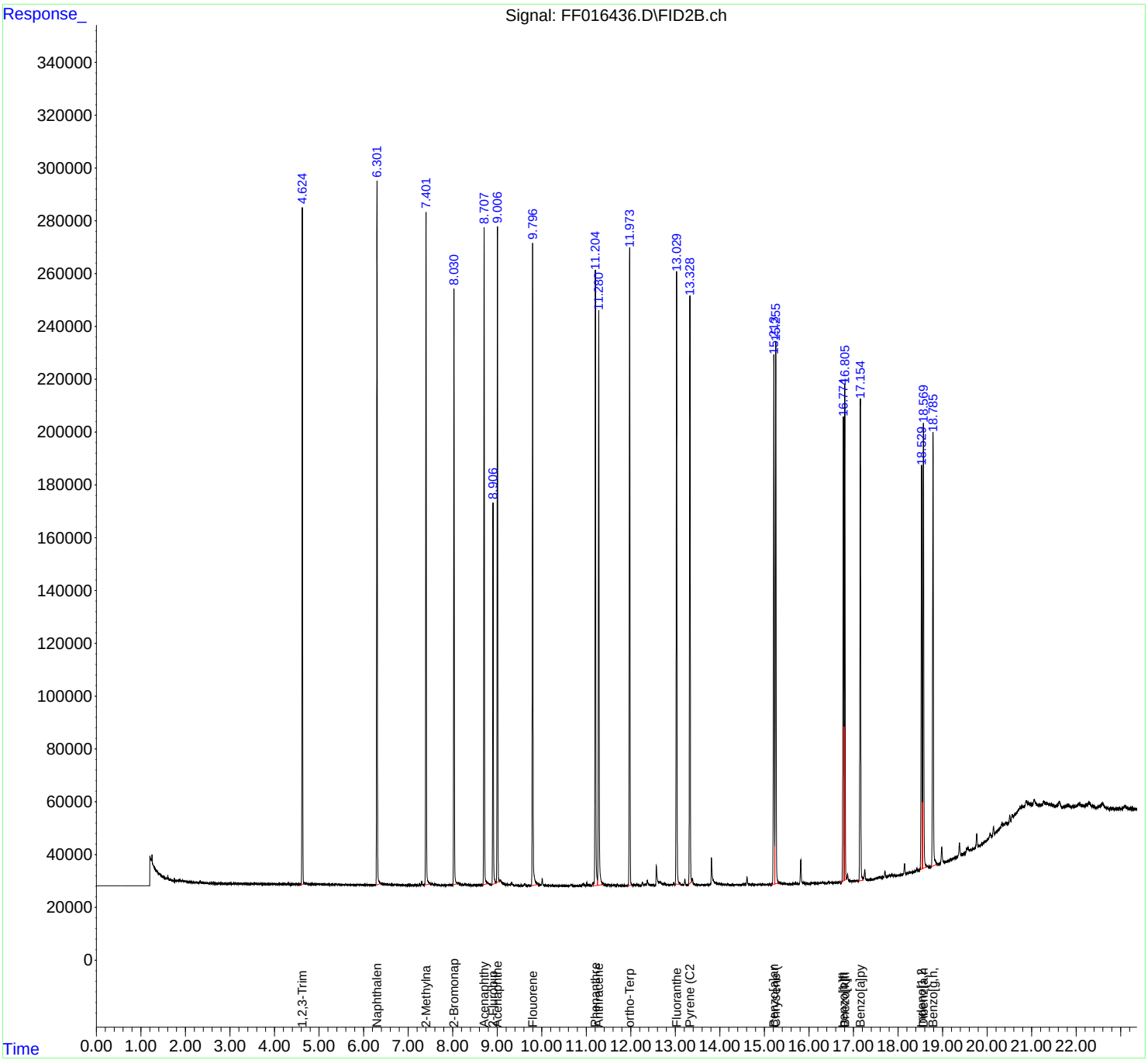
(f)=RT Delta > 1/2 Window (m)=manual int.

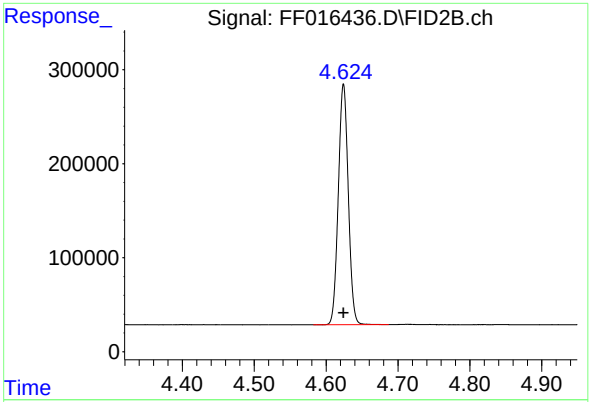
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016436.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 16:28
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 76 Sample Multiplier: 1

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

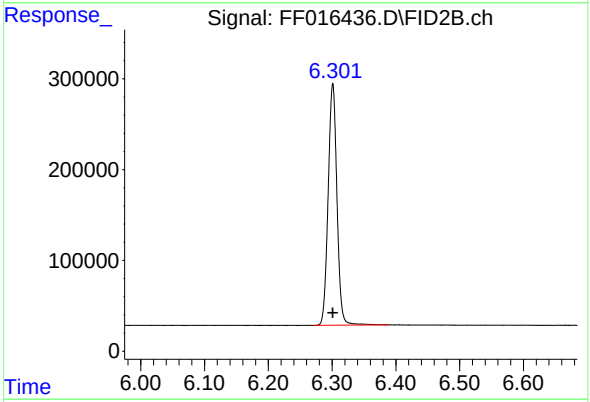




#1 1,2,3-Trimethylbenzene (C10.1)

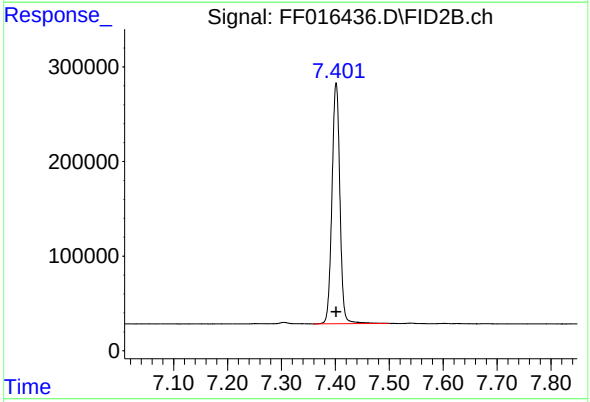
R.T.: 4.624 min
Delta R.T.: 0.000 min
Response: 2465539
Conc: 17.49 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



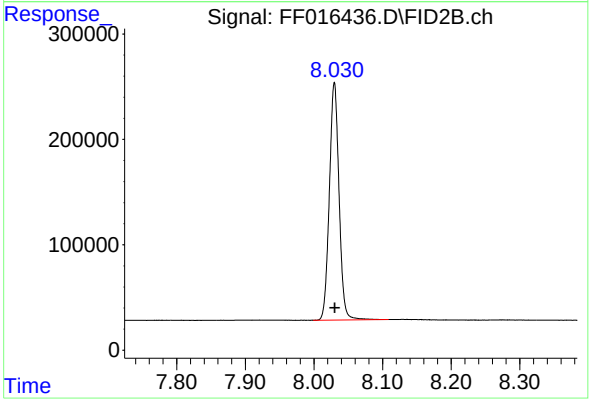
#2 Naphthalene (C11.7)

R.T.: 6.301 min
Delta R.T.: 0.000 min
Response: 2552694
Conc: 17.52 ug/ml



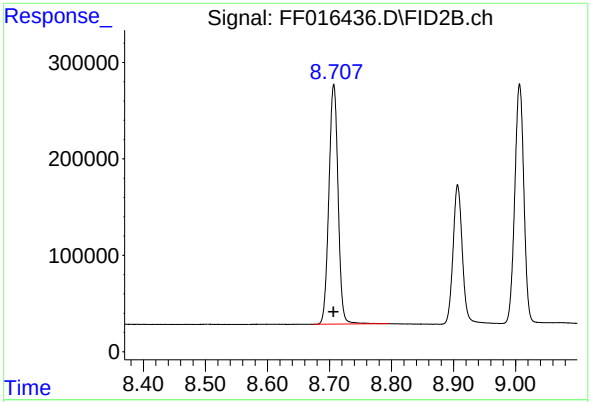
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.402 min
Delta R.T.: 0.000 min
Response: 2602818
Conc: 17.68 ug/ml



#4 2-Bromonaphthalene (SURR)

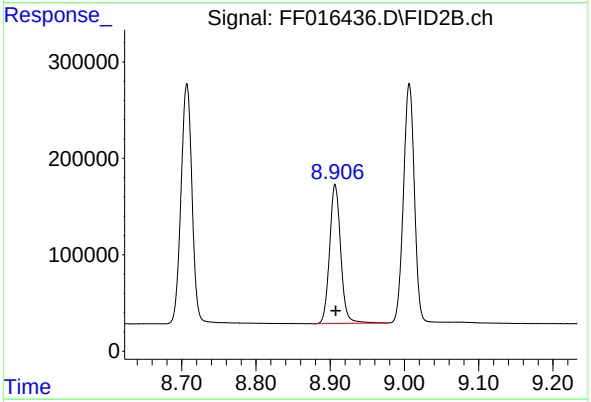
R.T.: 8.030 min
Delta R.T.: 0.000 min
Response: 2211521
Conc: 17.65 ug/ml



#5 Acenaphthylene (C15.06)

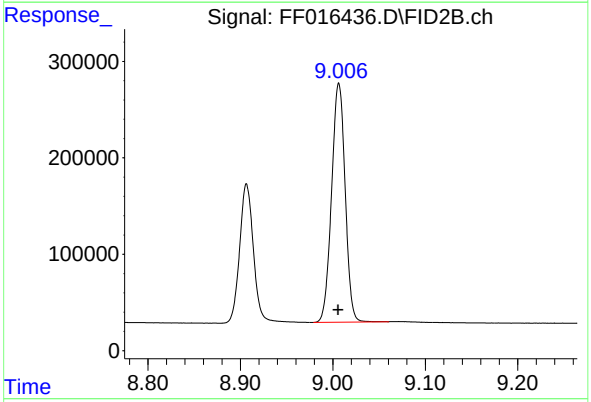
R.T.: 8.707 min
Delta R.T.: 0.000 min
Response: 2564508
Conc: 17.70 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



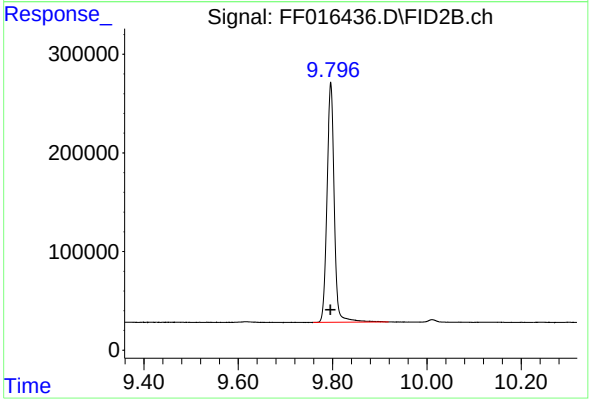
#6 2-Flurobiphenyl (SURR)

R.T.: 8.907 min
Delta R.T.: 0.000 min
Response: 1500863
Conc: 17.80 ug/ml



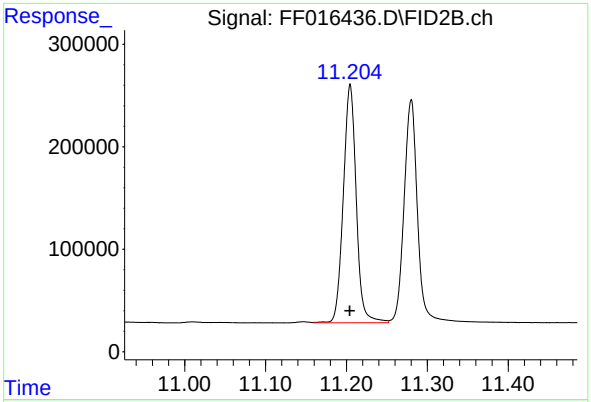
#7 Acenaphthene (C15.5)

R.T.: 9.007 min
Delta R.T.: 0.000 min
Response: 2527766
Conc: 17.63 ug/ml



#8 Flouorene (C16.55)

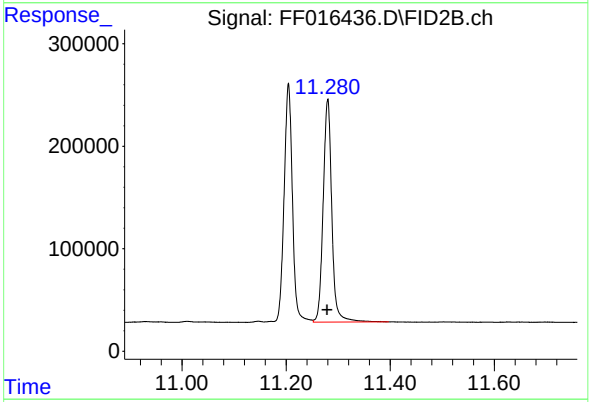
R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 2582519
Conc: 17.88 ug/ml



#9 Phenanthrene (C19.36)

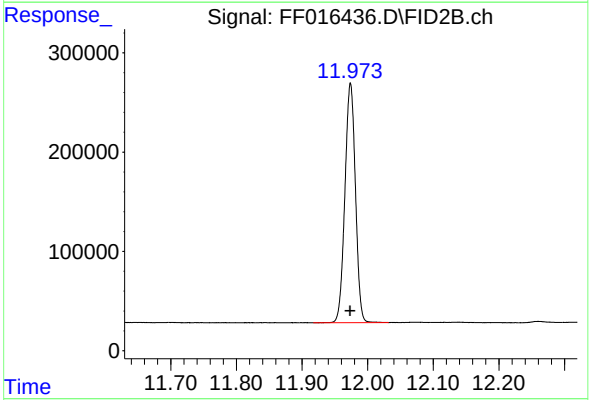
R.T.: 11.205 min
Delta R.T.: 0.000 min
Response: 2584516
Conc: 17.72 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



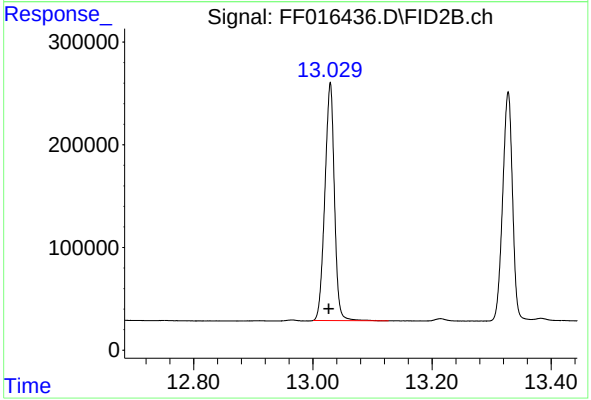
#10 Anthracene (C19.43)

R.T.: 11.280 min
Delta R.T.: 0.001 min
Response: 2510342
Conc: 17.55 ug/ml



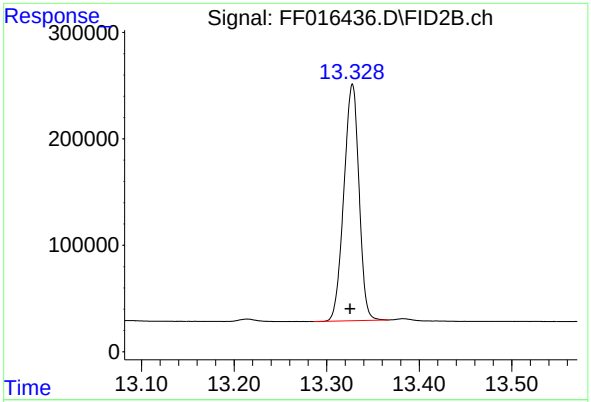
#11 ortho-Terphenyl (SURR)

R.T.: 11.974 min
Delta R.T.: 0.000 min
Response: 2682324
Conc: 17.59 ug/ml



#12 Fluoranthene (C21.85)

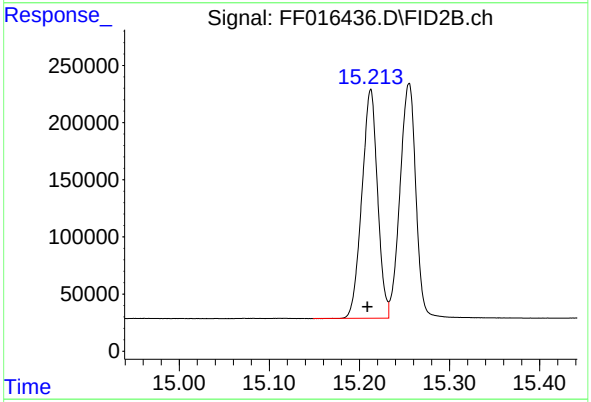
R.T.: 13.029 min
Delta R.T.: 0.003 min
Response: 2578506
Conc: 17.66 ug/ml



#13 Pyrene (C20.8)

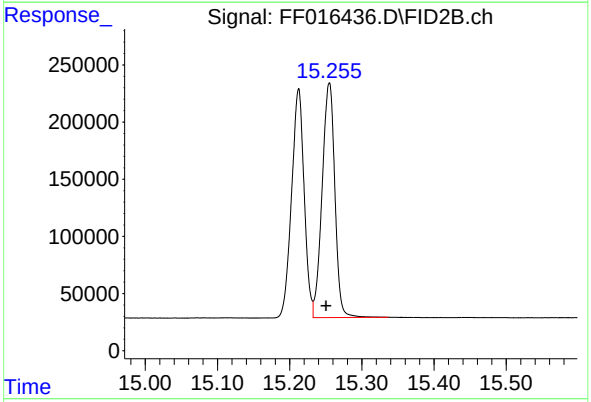
R.T.: 13.328 min
Delta R.T.: 0.002 min
Response: 2529762
Conc: 17.65 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



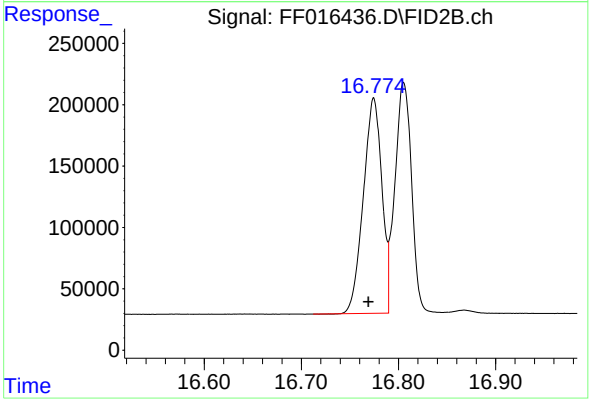
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.212 min
Delta R.T.: 0.003 min
Response: 2418959
Conc: 17.77 ug/ml



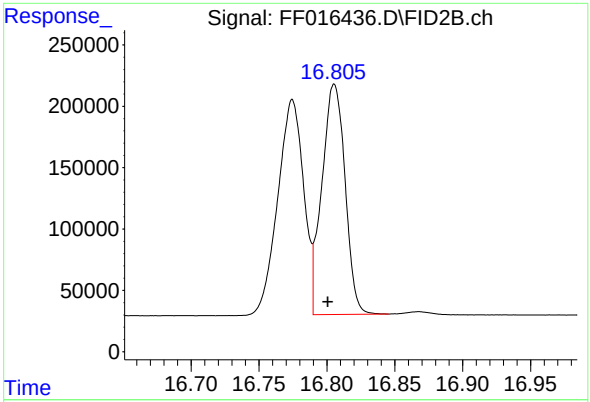
#15 Chrysene (C27.41)

R.T.: 15.255 min
Delta R.T.: 0.004 min
Response: 2515757
Conc: 17.64 ug/ml



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

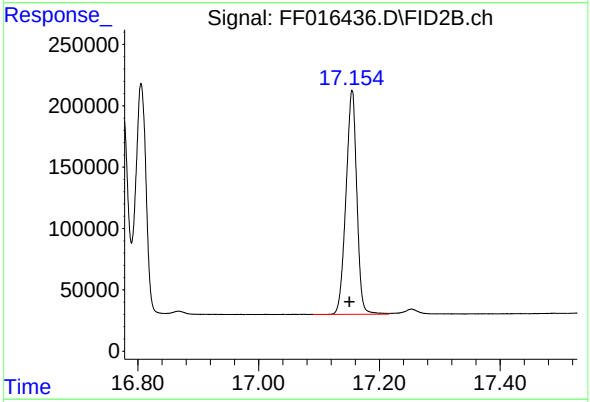
R.T.: 16.775 min
Delta R.T.: 0.005 min
Response: 2326602
Conc: 17.71 ug/ml



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

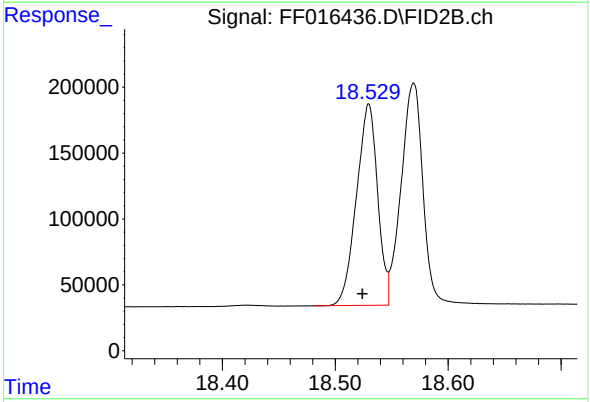
R.T.: 16.806 min
Delta R.T.: 0.005 min
Response: 2231035
Conc: 17.72 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



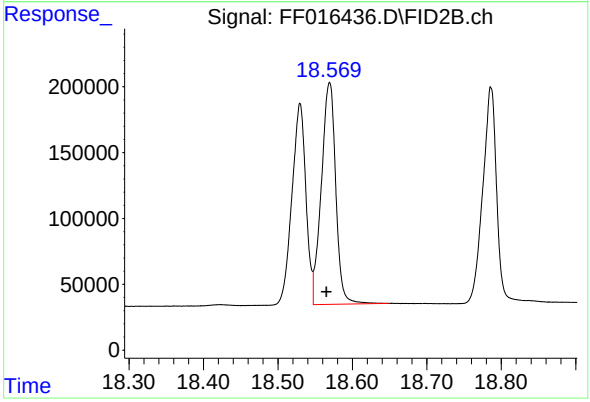
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.155 min
Delta R.T.: 0.005 min
Response: 2275638
Conc: 17.82 ug/ml



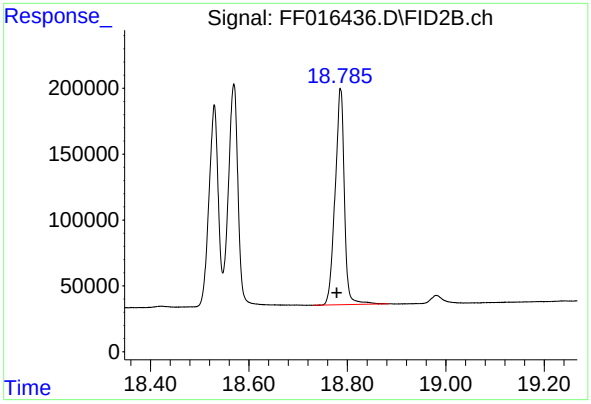
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

Inital Calibration Report for SequenceID : FG092425AL

AreaCount

Parameter Range	FG016627.D	FG016628.D	FG016629.D	FG016630.D	FG016631.D	
Aliphatic C9-C12	33215096.000	16952167.000	6786632.000	3543213.000	1838544.000	
Aliphatic C12-C16	23348269.000	11898419.000	4799598.000	2467499.000	1239735.000	
Aliphatic C16-C21	36506026.000	18690177.000	7657783.000	3978902.000	2098486.000	
Aliphatic C21-C28	48050203.000	24832755.000	10228580.000	5285310.000	2798387.000	
Aliphatic C28-C40	55164011.000	28860010.000	12195956.000	6306582.000	3366383.000	
Aliphatic EPH	196283605.000	101233528.000	41668549.000	21581506.000	11341535.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	115503.733333	4.142				
Aliphatic C12-C16	120612.787	2.52				
Aliphatic C16-C21	129289.3566662	5.554				
Aliphatic C21-C28	128839.7265	5.916				
Aliphatic C28-C40	101419.0969996	7.752				
Aliphatic EPH	116637.6851106	5.659				

Concentration

Parameter Range	FG016627.D	FG016628.D	FG016629.D	FG016630.D	FG016631.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	FG016627.D	FG016628.D	FG016629.D	FG016630.D	FG016631.D	
Aliphatic C9-C12	110716.986666	113014.446666	113110.533333	118107.100000	122569.600000	
Aliphatic C12-C16	116741.345000	118984.190000	119989.950000	123374.950000	123973.500000	
Aliphatic C16-C21	121686.753333	124601.180000	127629.716666	132630.066666	139899.066666	

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

Inital Calibration Report for SequenceID : FG092425AL

Aliphatic C21-C28	120125.507500	124163.775000	127857.250000	132132.750000	139919.350000	
Aliphatic C28-C40	91940.018333	96200.033333	101632.966666	105109.700000	112212.766666	
Aliphatic EPH	109046.447222	112481.697777	115745.969444	119897.255555	126017.055555	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016627.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 13:59
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Sep 24 15:30:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:28:33 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)	12.067	13543350	98.222 ug/ml
Spiked Amount	50.000		Recovery =	196.44%
12) S	1-chlorooctadecane (S...	13.510	10679746	97.914 ug/ml
Spiked Amount	50.000		Recovery =	195.83%
	Target Compounds			
1) T	n-Nonane (C9)	3.384	10831691	98.804 ug/ml
2) T	n-Decane (C10)	4.645	11074745	98.852 ug/ml
3) T	A~Naphthalene (C11.7)	6.364	12217150	100.002 ug/ml
4) T	n-Dodecane (C12)	6.827	11308660	99.129 ug/ml
5) T	A~2-methylnaphthalene...	7.468	11928750	101.040 ug/ml
6) T	n-Tetradecane (C14)	8.667	11393903	98.805 ug/ml
7) T	n-Hexadecane (C16)	10.287	11954366	98.459 ug/ml
8) T	n-Octadecane (C18)	11.742	12330072	97.799 ug/ml
10) T	n-Eicosane (C20)	13.060	12125534	97.502 ug/ml
11) T	n-Heneicosane (C21)	13.678	12050420	97.545 ug/ml
13) T	n-Docosane (C22)	14.267	12089669	97.342 ug/ml
14) T	n-Tetracosane (C24)	15.379	12192647	96.995 ug/ml
15) T	n-Hexacosane (C26)	16.407	12034734	96.916 ug/ml
16) T	n-Octacosane (C28)	17.363	11733153	96.263 ug/ml
17) T	n-Tricontane (C30)	18.257	11608655	94.399 ug/ml
18) T	n-Dotriacontane (C32)	19.093	10857998	92.722 ug/ml
19) T	n-Tetratriacontane (C34)	19.881	9726422	93.535 ug/ml
20) T	n-Hexatriacontane (C36)	20.625	8339055	95.487 ug/ml
21) T	n-Octatriacontane (C38)	21.406	7536794	97.606 ug/ml
22) T	n-Tetracontane (C40)	22.399	7095087	98.397 ug/ml

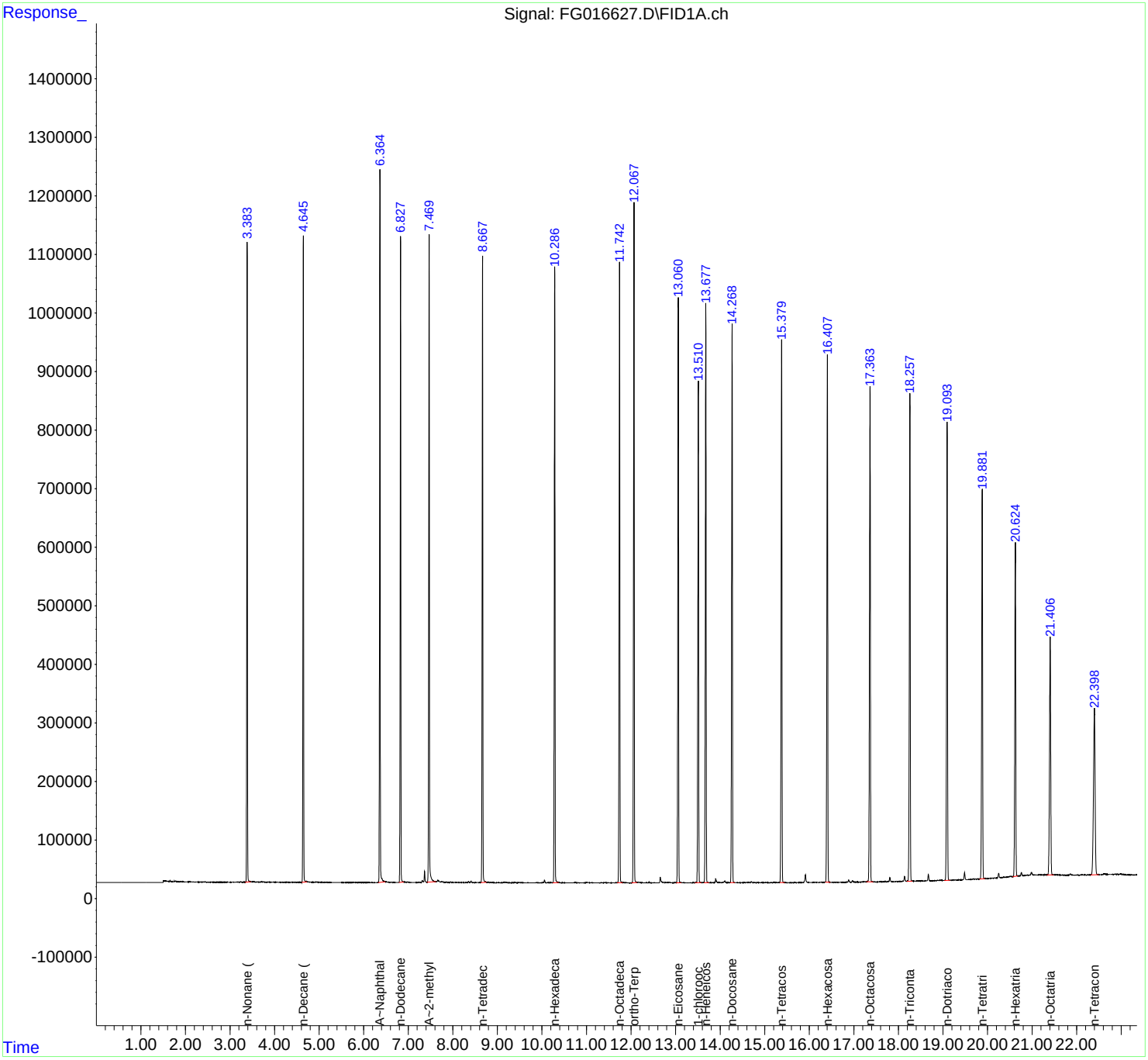
(f)=RT Delta > 1/2 Window (m)=manual int.

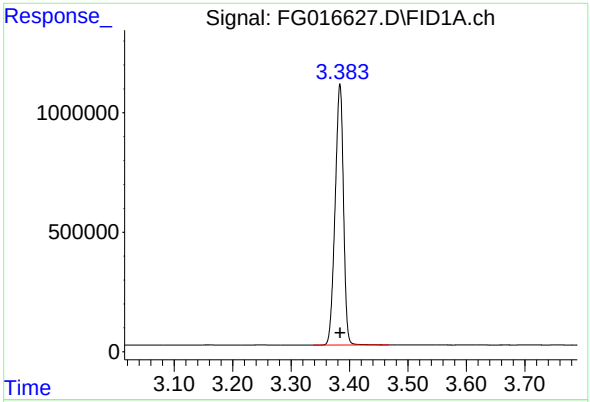
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016627.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 13:59
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Sep 24 15:30:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:28:33 2025
Response via : Initial Calibration
Integrator: ChemStation

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

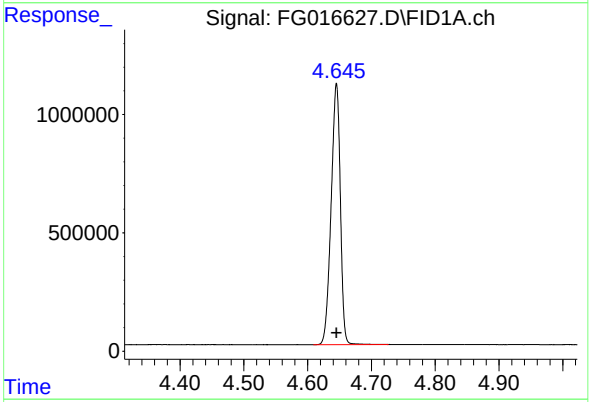




#1 n-Nonane (C9)

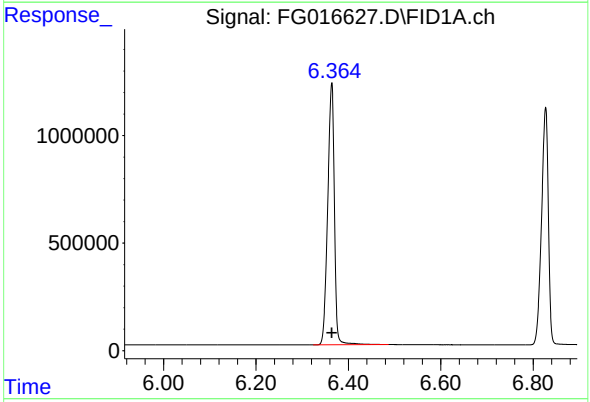
R.T.: 3.384 min
Delta R.T.: 0.000 min
Response: 10831691
Conc: 98.80 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



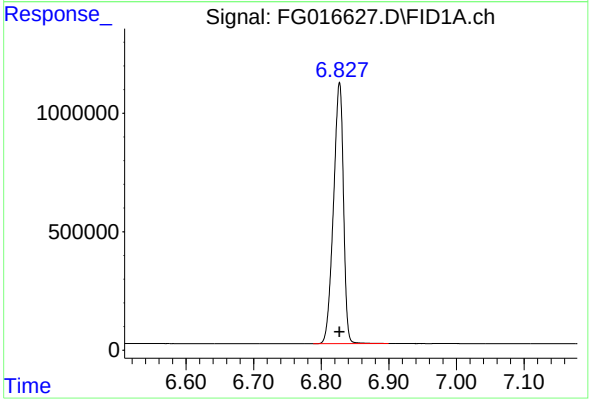
#2 n-Decane (C10)

R.T.: 4.645 min
Delta R.T.: 0.000 min
Response: 11074745
Conc: 98.85 ug/ml



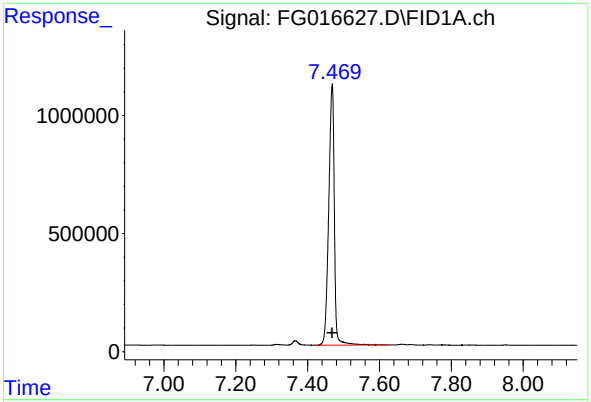
#3 A~Naphthalene (C11.7)

R.T.: 6.364 min
Delta R.T.: 0.000 min
Response: 12217150
Conc: 100.00 ug/ml



#4 n-Dodecane (C12)

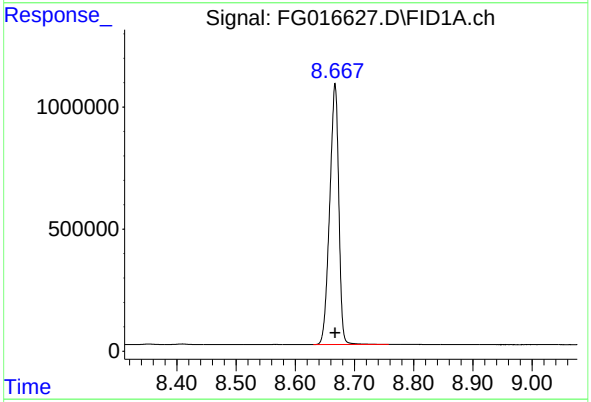
R.T.: 6.827 min
Delta R.T.: 0.000 min
Response: 11308660
Conc: 99.13 ug/ml



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

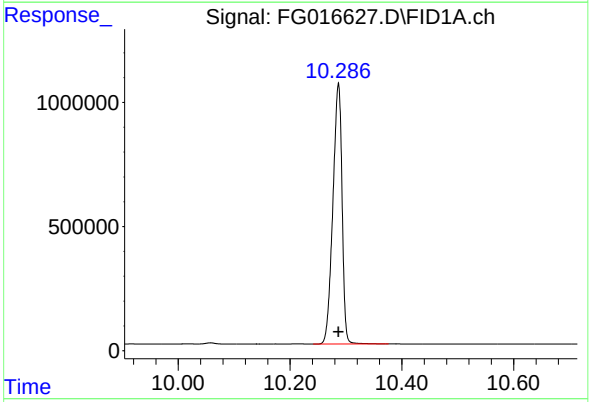
R.T.: 7.468 min
Delta R.T.: 0.000 min
Response: 11928750
Conc: 101.04 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



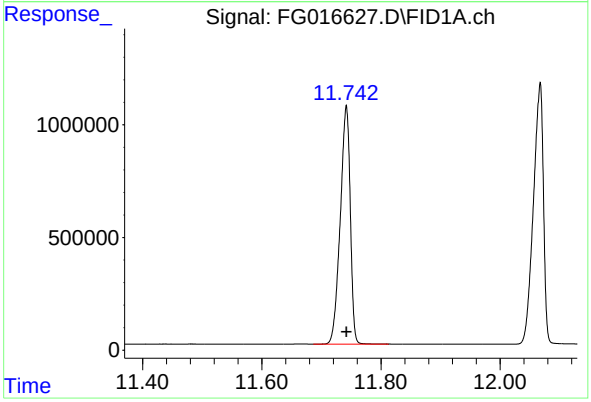
#6 n-Tetradecane (C14)

R.T.: 8.667 min
Delta R.T.: 0.000 min
Response: 11393903
Conc: 98.81 ug/ml



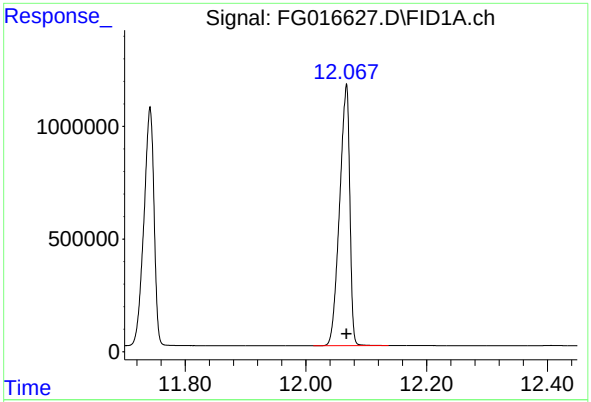
#7 n-Hexadecane (C16)

R.T.: 10.287 min
Delta R.T.: 0.000 min
Response: 11954366
Conc: 98.46 ug/ml



#8 n-Octadecane (C18)

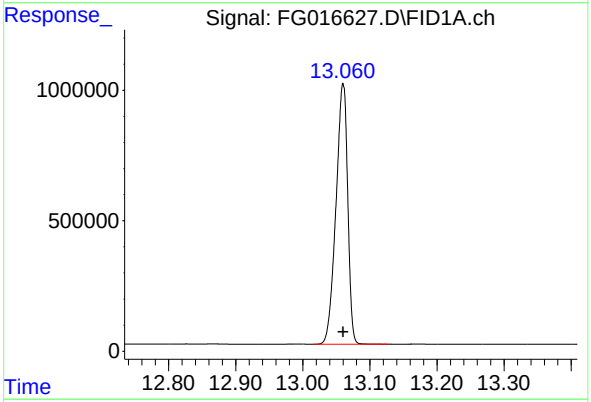
R.T.: 11.742 min
Delta R.T.: 0.000 min
Response: 12330072
Conc: 97.80 ug/ml



#9 ortho-Terphenyl (SURR)

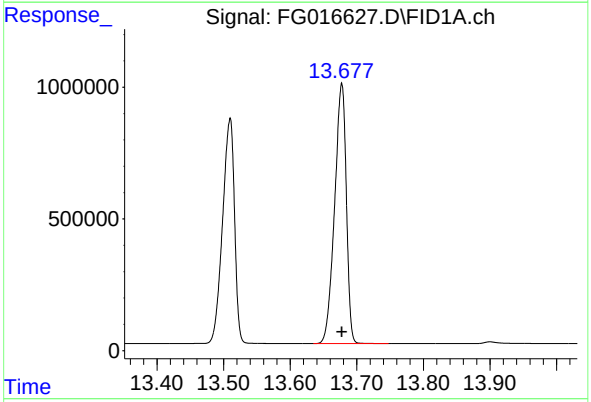
R.T.: 12.067 min
Delta R.T.: 0.000 min
Response: 13543350
Conc: 98.22 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



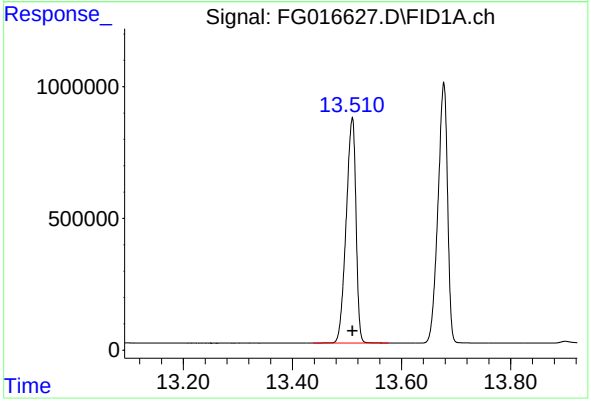
#10 n-Eicosane (C20)

R.T.: 13.060 min
Delta R.T.: 0.000 min
Response: 12125534
Conc: 97.50 ug/ml



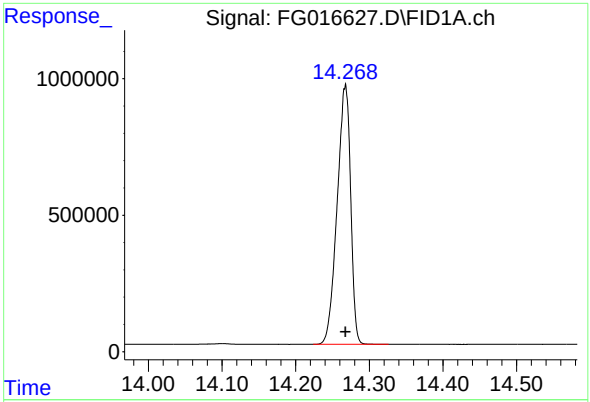
#11 n-Heneicosane (C21)

R.T.: 13.678 min
Delta R.T.: 0.000 min
Response: 12050420
Conc: 97.54 ug/ml



#12 1-chlorooctadecane (SURR)

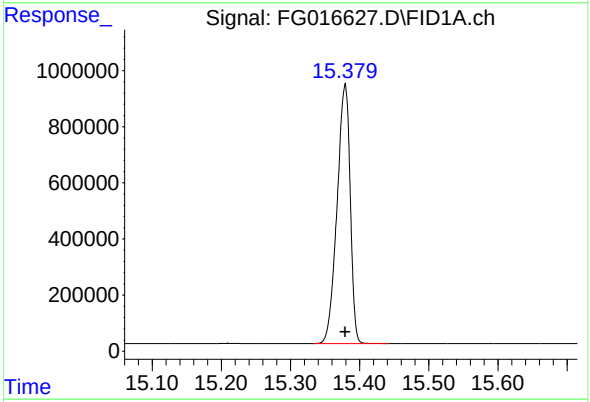
R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 10679746
Conc: 97.91 ug/ml



#13 n-Docosane (C22)

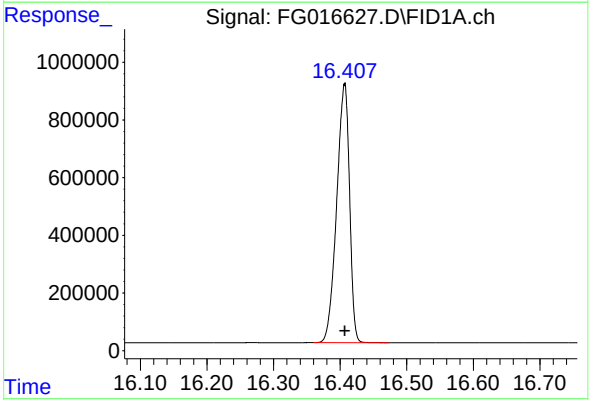
R.T.: 14.267 min
Delta R.T.: 0.000 min
Response: 12089669
Conc: 97.34 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



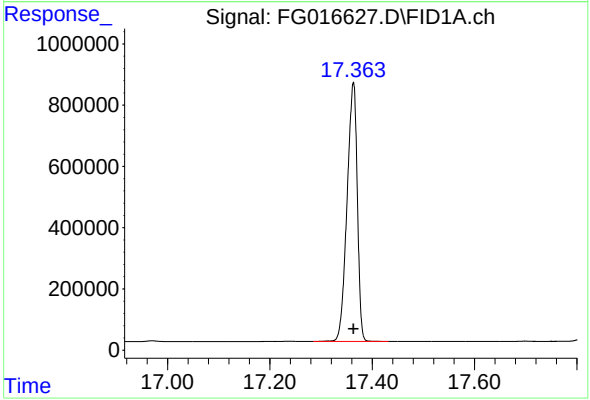
#14 n-Tetracosane (C24)

R.T.: 15.379 min
Delta R.T.: 0.000 min
Response: 12192647
Conc: 96.99 ug/ml



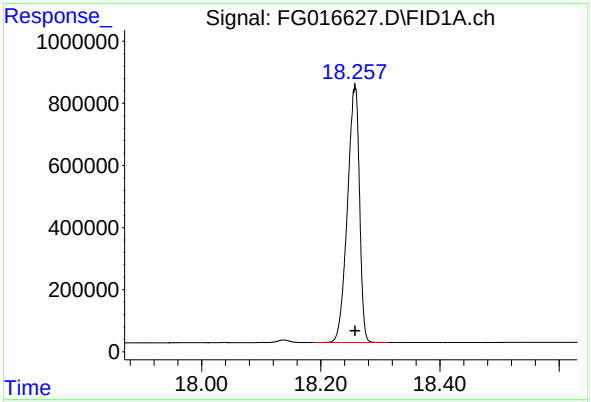
#15 n-Hexacosane (C26)

R.T.: 16.407 min
Delta R.T.: 0.000 min
Response: 12034734
Conc: 96.92 ug/ml



#16 n-Octacosane (C28)

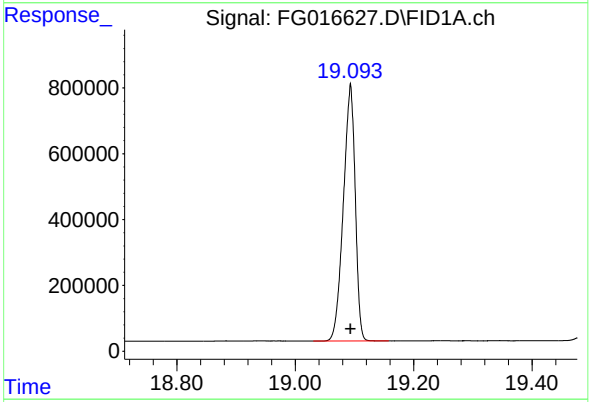
R.T.: 17.363 min
Delta R.T.: 0.000 min
Response: 11733153
Conc: 96.26 ug/ml



#17 n-Tricontane (C30)

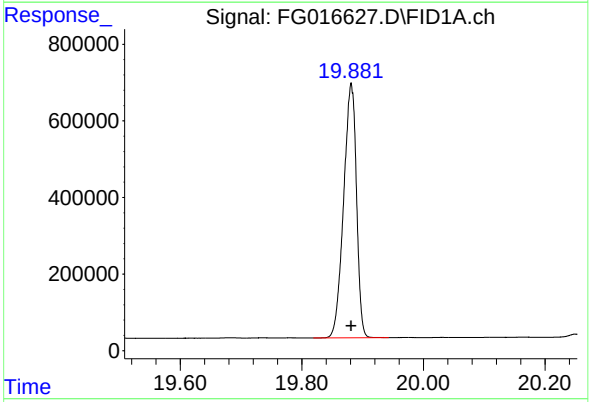
R.T.: 18.257 min
Delta R.T.: 0.000 min
Response: 11608655
Conc: 94.40 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



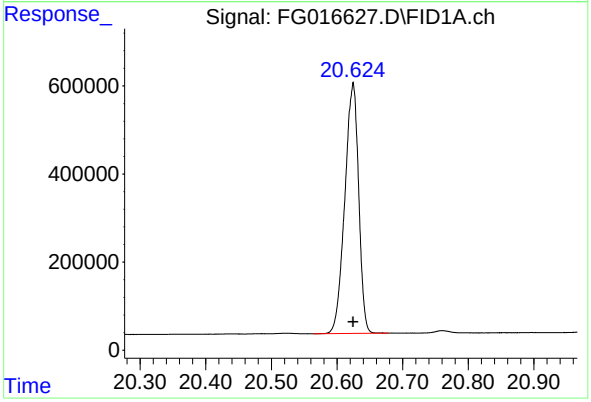
#18 n-Dotriacontane (C32)

R.T.: 19.093 min
Delta R.T.: 0.000 min
Response: 10857998
Conc: 92.72 ug/ml



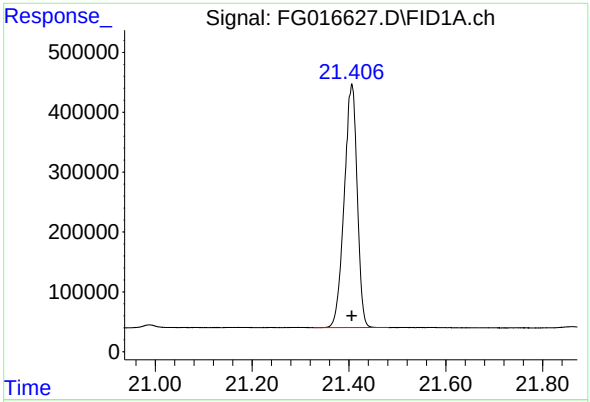
#19 n-Tetratriacontane (C34)

R.T.: 19.881 min
Delta R.T.: 0.000 min
Response: 9726422
Conc: 93.53 ug/ml



#20 n-Hexatriacontane (C36)

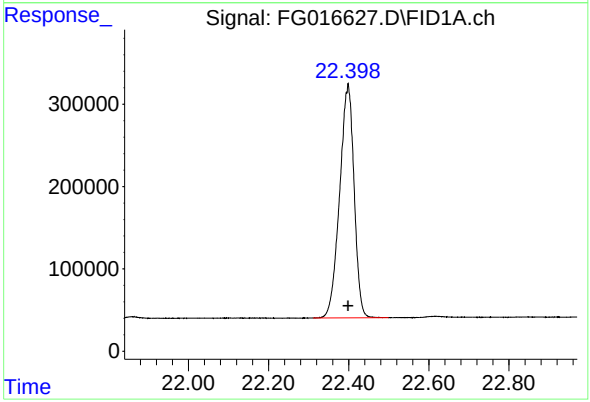
R.T.: 20.625 min
Delta R.T.: 0.000 min
Response: 8339055
Conc: 95.49 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.406 min
Delta R.T.: 0.000 min
Response: 7536794
Conc: 97.61 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.399 min
Delta R.T.: 0.000 min
Response: 7095087
Conc: 98.40 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016627.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 13:59
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.338	3.467	BB	1092296	10831691	79.98%	4.427%
2	4.645	4.609	4.727	BB	1103794	11074745	81.77%	4.527%
3	6.364	6.324	6.487	BB	1219947	12217150	90.21%	4.994%
4	6.827	6.788	6.900	BB	1102890	11308660	83.50%	4.622%
5	7.468	7.415	7.625	BB	1105920	11928750	88.08%	4.876%
6	8.667	8.630	8.758	BB	1069095	11393903	84.13%	4.657%
7	10.287	10.241	10.376	BB	1052874	11954366	88.27%	4.886%
8	11.742	11.686	11.813	BB	1060102	12330072	91.04%	5.040%
9	12.067	12.012	12.137	BB	1159808	13543350	100.00%	5.536%
10	13.060	13.015	13.128	BB	997854	12125534	89.53%	4.956%
11	13.510	13.438	13.576	BB	855434	10679746	78.86%	4.365%
12	13.678	13.635	13.748	BB	986895	12050420	88.98%	4.926%
13	14.267	14.224	14.326	BB	953067	12089669	89.27%	4.942%
14	15.379	15.333	15.442	BB	928052	12192647	90.03%	4.984%
15	16.407	16.360	16.473	BB	895436	12034734	88.86%	4.919%
16	17.363	17.285	17.432	BB	846277	11733153	86.63%	4.796%
17	18.257	18.187	18.314	BB	828742	11608655	85.71%	4.745%
18	19.093	19.030	19.158	BB	781825	10857998	80.17%	4.438%
19	19.881	19.819	19.943	BB	665314	9726422	71.82%	3.976%
20	20.625	20.564	20.679	BB	569130	8339055	61.57%	3.409%
21	21.406	21.326	21.482	BB	406782	7536794	55.65%	3.081%
22	22.399	22.311	22.500	BB	284747	7095087	52.39%	2.900%

Sum of corrected areas: 244652602

Aliphatic EPH 092425.M Thu Sep 25 04:08:29 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016628.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 14:29
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 24 15:32:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:28:33 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)	12.061	6928695	50.166 ug/ml
Spiked Amount	50.000		Recovery =	100.33%
12)	S 1-chlorooctadecane (S...	13.505	5469032	50.094 ug/ml
Spiked Amount	50.000		Recovery =	100.19%
	Target Compounds			
1)	T n-Nonane (C9)	3.381	5528279	50.284 ug/ml
2)	T n-Decane (C10)	4.642	5652826	50.304 ug/ml
3)	T A~Naphthalene (C11.7)	6.360	6200558	50.500 ug/ml
4)	T n-Dodecane (C12)	6.824	5771062	50.390 ug/ml
5)	T A~2-methylnaphthalene...	7.463	6042738	50.783 ug/ml
6)	T n-Tetradecane (C14)	8.664	5809256	50.250 ug/ml
7)	T n-Hexadecane (C16)	10.283	6089163	50.101 ug/ml
8)	T n-Octadecane (C18)	11.737	6296624	49.962 ug/ml
10)	T n-Eicosane (C20)	13.056	6215117	49.984 ug/ml
11)	T n-Heneicosane (C21)	13.673	6178436	50.008 ug/ml
13)	T n-Docosane (C22)	14.263	6212951	50.016 ug/ml
14)	T n-Tetracosane (C24)	15.375	6284923	49.999 ug/ml
15)	T n-Hexacosane (C26)	16.403	6229377	50.110 ug/ml
16)	T n-Octacosane (C28)	17.358	6105504	50.061 ug/ml
17)	T n-Tricontane (C30)	18.252	6079765	49.625 ug/ml
18)	T n-Dotriacontane (C32)	19.089	5728342	49.273 ug/ml
19)	T n-Tetratriacontane (C34)	19.877	5120162	49.490 ug/ml
20)	T n-Hexatriacontane (C36)	20.620	4360749	49.955 ug/ml
21)	T n-Octatriacontane (C38)	21.401	3909499	50.418 ug/ml
22)	T n-Tetracontane (C40)	22.391	3661493	50.516 ug/ml

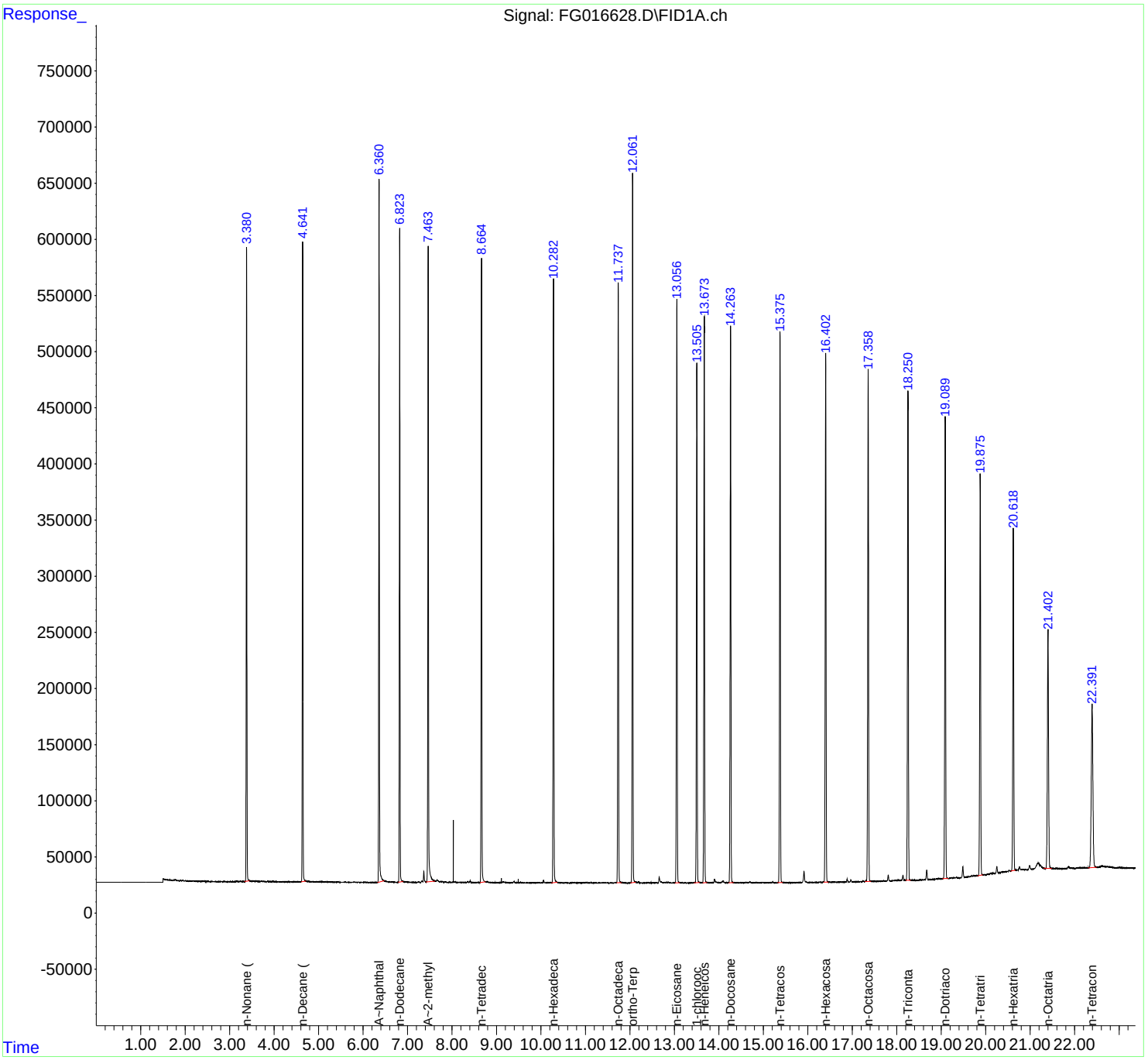
(f)=RT Delta > 1/2 Window (m)=manual int.

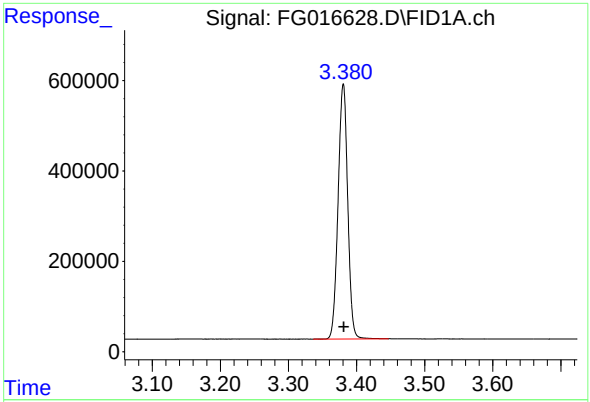
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016628.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 14:29
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 24 15:32:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:28:33 2025
Response via : Initial Calibration
Integrator: ChemStation

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

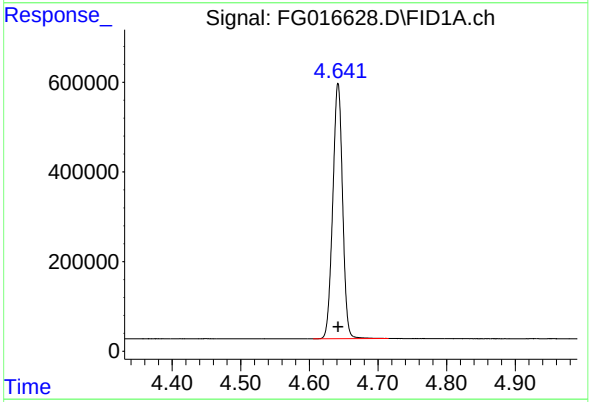




#1 n-Nonane (C9)

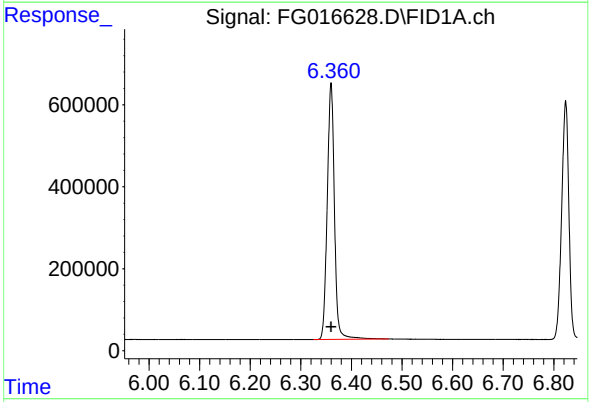
R.T.: 3.381 min
Delta R.T.: 0.000 min
Response: 5528279
Conc: 50.28 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



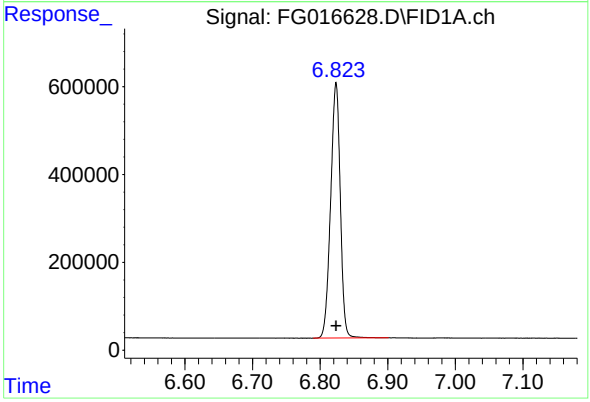
#2 n-Decane (C10)

R.T.: 4.642 min
Delta R.T.: 0.000 min
Response: 5652826
Conc: 50.30 ug/ml



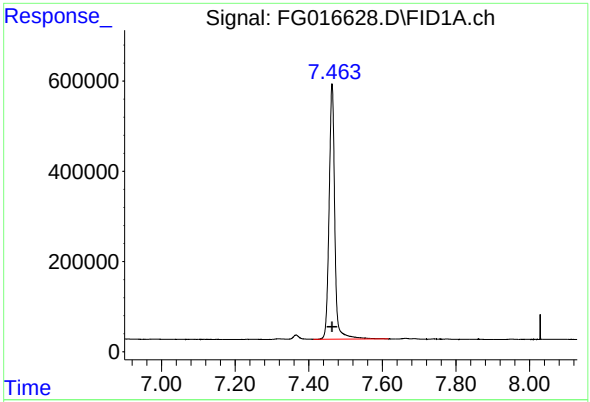
#3 A~Naphthalene (C11.7)

R.T.: 6.360 min
Delta R.T.: 0.000 min
Response: 6200558
Conc: 50.50 ug/ml



#4 n-Dodecane (C12)

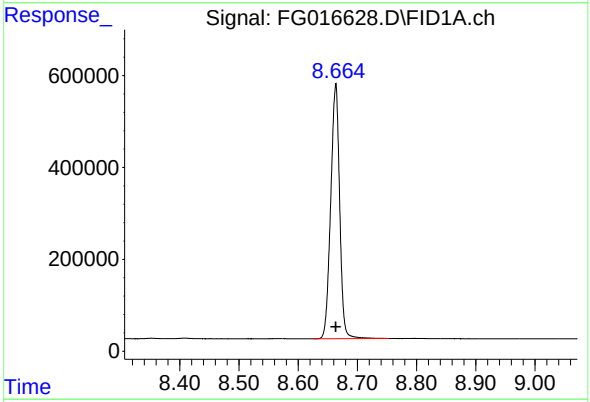
R.T.: 6.824 min
Delta R.T.: 0.000 min
Response: 5771062
Conc: 50.39 ug/ml



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

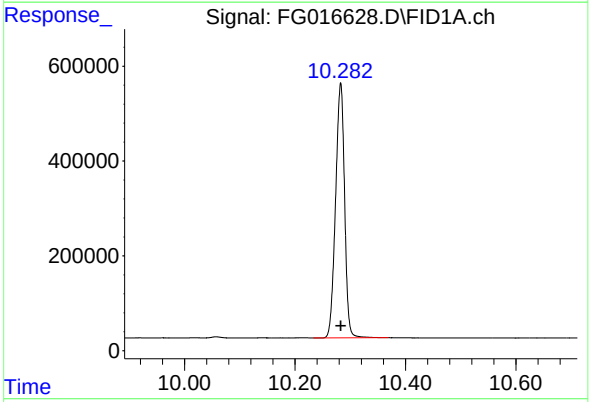
R.T.: 7.463 min
Delta R.T.: 0.000 min
Response: 6042738
Conc: 50.78 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



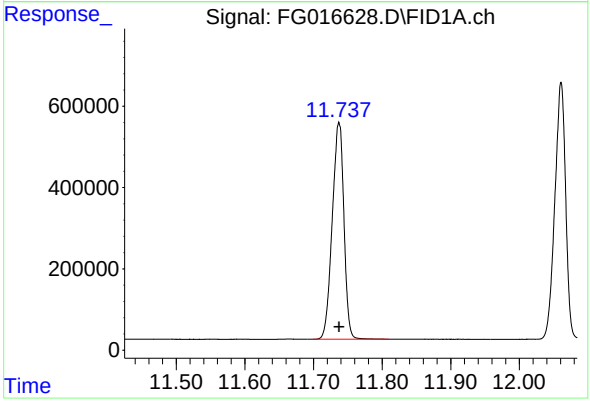
#6 n-Tetradecane (C14)

R.T.: 8.664 min
Delta R.T.: 0.000 min
Response: 5809256
Conc: 50.25 ug/ml



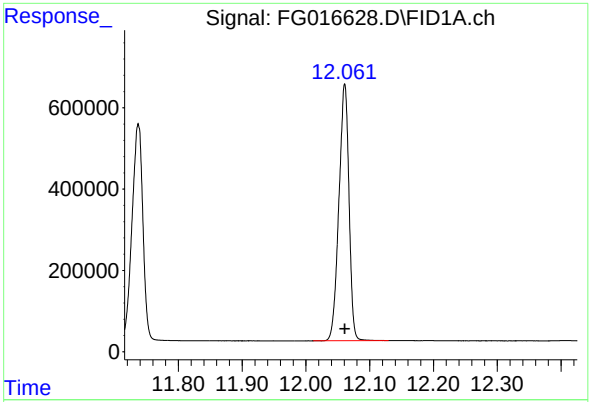
#7 n-Hexadecane (C16)

R.T.: 10.283 min
Delta R.T.: 0.000 min
Response: 6089163
Conc: 50.10 ug/ml



#8 n-Octadecane (C18)

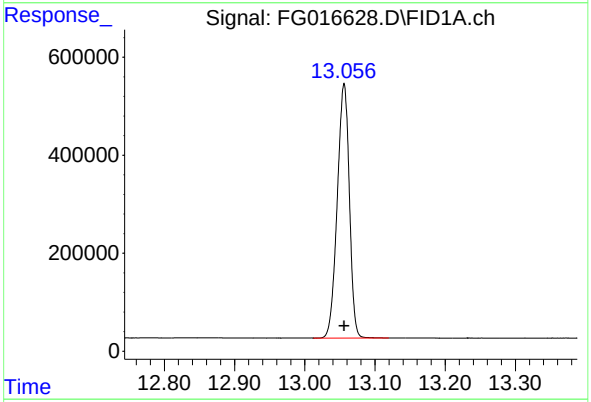
R.T.: 11.737 min
Delta R.T.: 0.000 min
Response: 6296624
Conc: 49.96 ug/ml



#9 ortho-Terphenyl (SURR)

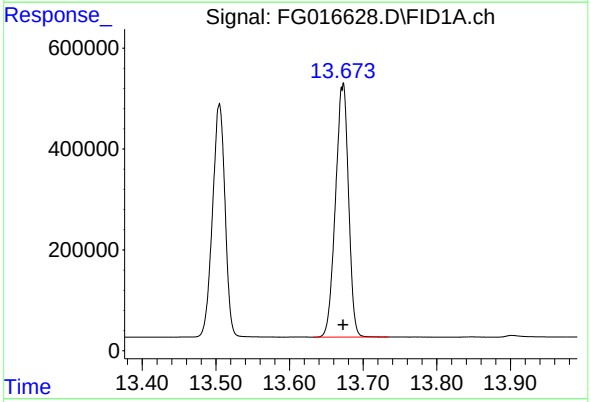
R.T.: 12.061 min
Delta R.T.: 0.000 min
Response: 6928695
Conc: 50.17 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



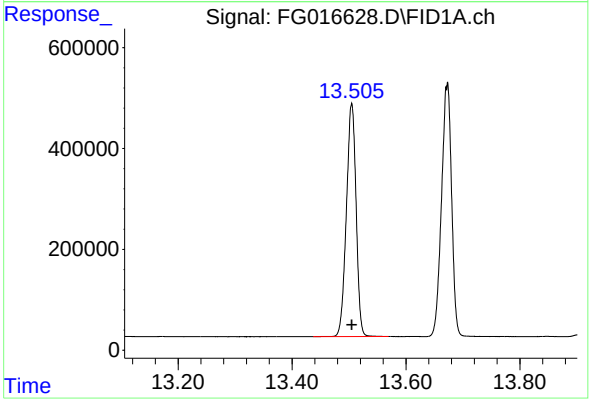
#10 n-Eicosane (C20)

R.T.: 13.056 min
Delta R.T.: 0.000 min
Response: 6215117
Conc: 49.98 ug/ml



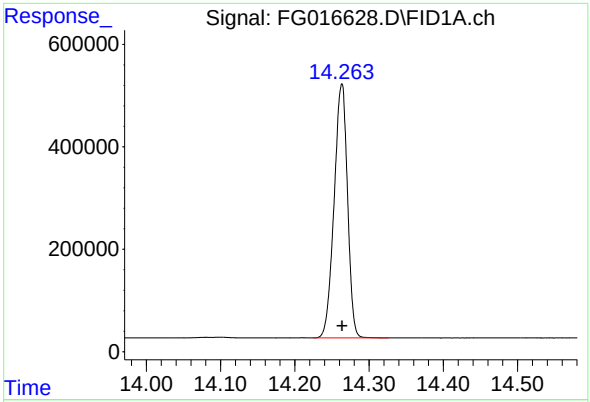
#11 n-Heneicosane (C21)

R.T.: 13.673 min
Delta R.T.: 0.000 min
Response: 6178436
Conc: 50.01 ug/ml



#12 1-chlorooctadecane (SURR)

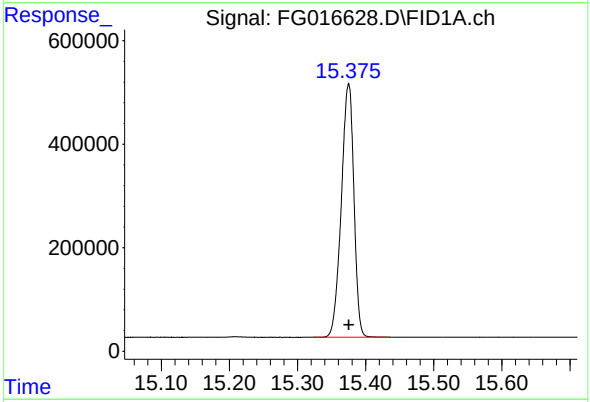
R.T.: 13.505 min
Delta R.T.: 0.000 min
Response: 5469032
Conc: 50.09 ug/ml



#13 n-Docosane (C22)

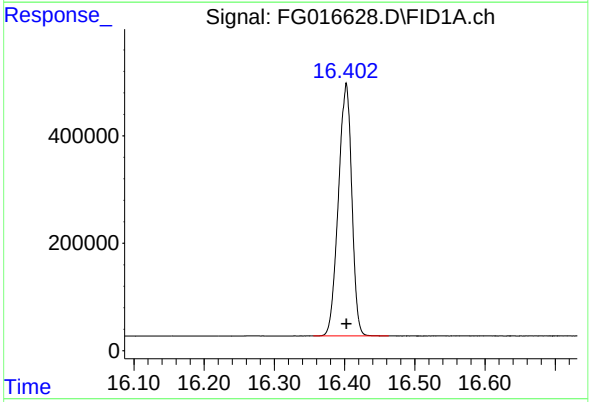
R.T.: 14.263 min
Delta R.T.: 0.000 min
Response: 6212951
Conc: 50.02 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



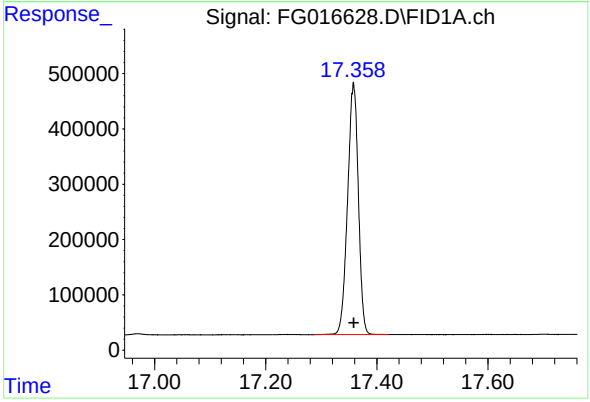
#14 n-Tetracosane (C24)

R.T.: 15.375 min
Delta R.T.: 0.000 min
Response: 6284923
Conc: 50.00 ug/ml



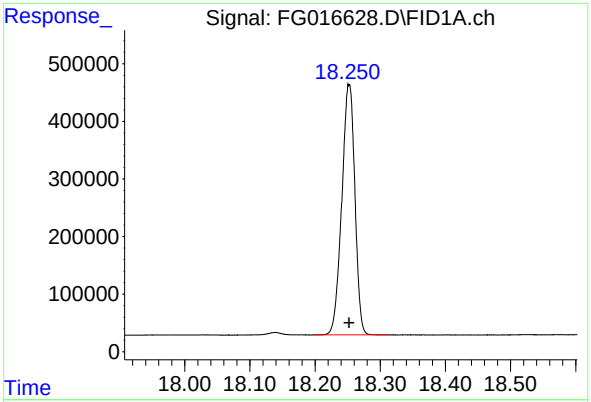
#15 n-Hexacosane (C26)

R.T.: 16.403 min
Delta R.T.: 0.000 min
Response: 6229377
Conc: 50.11 ug/ml



#16 n-Octacosane (C28)

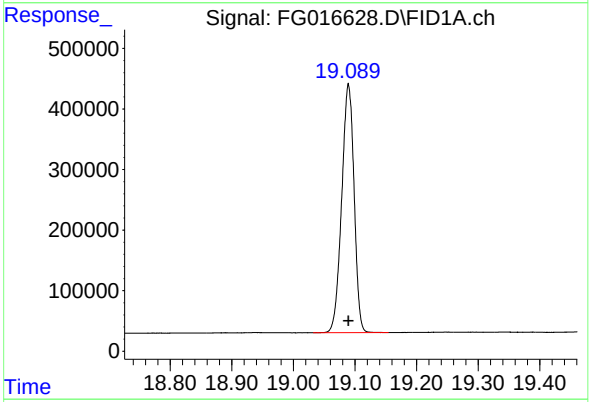
R.T.: 17.358 min
Delta R.T.: 0.000 min
Response: 6105504
Conc: 50.06 ug/ml



#17 n-Tricontane (C30)

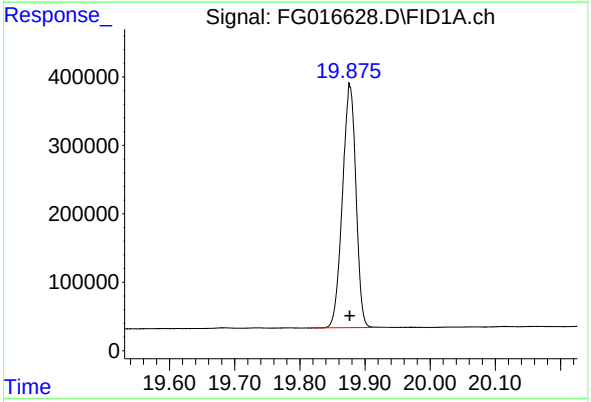
R.T.: 18.252 min
Delta R.T.: 0.000 min
Response: 6079765
Conc: 49.62 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



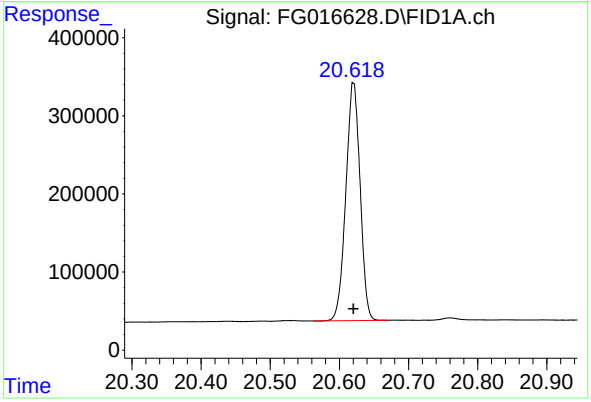
#18 n-Dotriacontane (C32)

R.T.: 19.089 min
Delta R.T.: 0.000 min
Response: 5728342
Conc: 49.27 ug/ml



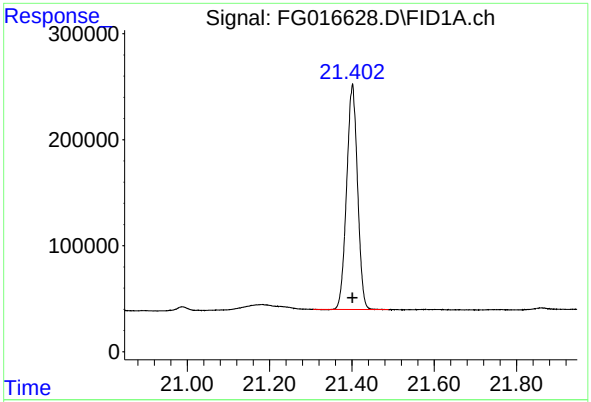
#19 n-Tetratriacontane (C34)

R.T.: 19.877 min
Delta R.T.: 0.000 min
Response: 5120162
Conc: 49.49 ug/ml



#20 n-Hexatriacontane (C36)

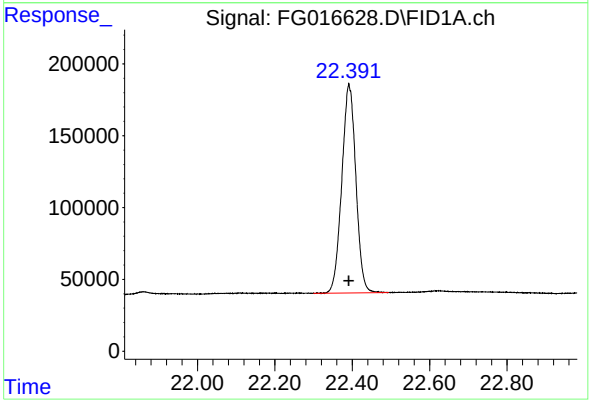
R.T.: 20.620 min
Delta R.T.: 0.000 min
Response: 4360749
Conc: 49.96 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.401 min
Delta R.T.: 0.000 min
Response: 3909499
Conc: 50.42 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.391 min
Delta R.T.: 0.000 min
Response: 3661493
Conc: 50.52 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016628.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 14:29
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.381	3.336	3.447	BB	564332	5528279	79.79%	4.392%
2	4.642	4.605	4.715	BB	569753	5652826	81.59%	4.491%
3	6.360	6.325	6.474	BB	625359	6200558	89.49%	4.926%
4	6.824	6.790	6.901	BB	582147	5771062	83.29%	4.585%
5	7.463	7.412	7.617	BB	565212	6042738	87.21%	4.801%
6	8.664	8.625	8.753	BB	555753	5809256	83.84%	4.615%
7	10.283	10.233	10.370	BB	537813	6089163	87.88%	4.837%
8	11.737	11.700	11.810	BB	533548	6296624	90.88%	5.002%
9	12.061	12.011	12.130	BB	631906	6928695	100.00%	5.504%
10	13.056	13.012	13.120	BB	519484	6215117	89.70%	4.938%
11	13.505	13.437	13.570	BB	461636	5469032	78.93%	4.345%
12	13.673	13.632	13.735	BB	502533	6178436	89.17%	4.908%
13	14.263	14.225	14.326	BB	496298	6212951	89.67%	4.936%
14	15.375	15.323	15.434	BB	490707	6284923	90.71%	4.993%
15	16.403	16.355	16.463	BB	470319	6229377	89.91%	4.949%
16	17.358	17.285	17.421	BB	455816	6105504	88.12%	4.850%
17	18.252	18.197	18.313	BB	433235	6079765	87.75%	4.830%
18	19.089	19.032	19.155	BB	410699	5728342	82.68%	4.551%
19	19.877	19.820	19.936	BB	351757	5120162	73.90%	4.068%
20	20.620	20.562	20.671	BB	303641	4360749	62.94%	3.464%
21	21.401	21.306	21.489	BB	212234	3909499	56.42%	3.106%
22	22.391	22.299	22.494	BB	145259	3661493	52.85%	2.909%
			Sum of corrected areas:			125874551		

Aliphatic EPH 092425.M Thu Sep 25 04:10:55 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016629.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 14:59
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 24 15:28:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:28:33 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)	12.056	2806722	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
12) S	1-chlorooctadecane (S...	13.501	2226973	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1) T	n-Nonane (C9)	3.379	2218763	20.000 ug/ml
2) T	n-Decane (C10)	4.640	2266374	20.000 ug/ml
3) T	A~Naphthalene (C11.7)	6.358	2443325	20.000 ug/ml
4) T	n-Dodecane (C12)	6.821	2301495	20.000 ug/ml
5) T	A~2-methylnaphthalene...	7.461	2336645	20.000 ug/ml
6) T	n-Tetradecane (C14)	8.661	2333891	20.000 ug/ml
7) T	n-Hexadecane (C16)	10.280	2465707	20.000 ug/ml
8) T	n-Octadecane (C18)	11.734	2576996	20.000 ug/ml
10) T	n-Eicosane (C20)	13.053	2549373	20.000 ug/ml
11) T	n-Heneicosane (C21)	13.669	2531414	20.000 ug/ml
13) T	n-Docosane (C22)	14.260	2549976	20.000 ug/ml
14) T	n-Tetracosane (C24)	15.370	2589634	20.000 ug/ml
15) T	n-Hexacosane (C26)	16.399	2560143	20.000 ug/ml
16) T	n-Octacosane (C28)	17.355	2528827	20.000 ug/ml
17) T	n-Tricontane (C30)	18.248	2597221	20.000 ug/ml
18) T	n-Dotriacontane (C32)	19.086	2512493	20.000 ug/ml
19) T	n-Tetratriacontane (C34)	19.875	2214195	20.000 ug/ml
20) T	n-Hexatriacontane (C36)	20.619	1825466	20.000 ug/ml
21) T	n-Octatriacontane (C38)	21.398	1581316	20.000 ug/ml
22) T	n-Tetracontane (C40)	22.390	1465265	20.000 ug/ml

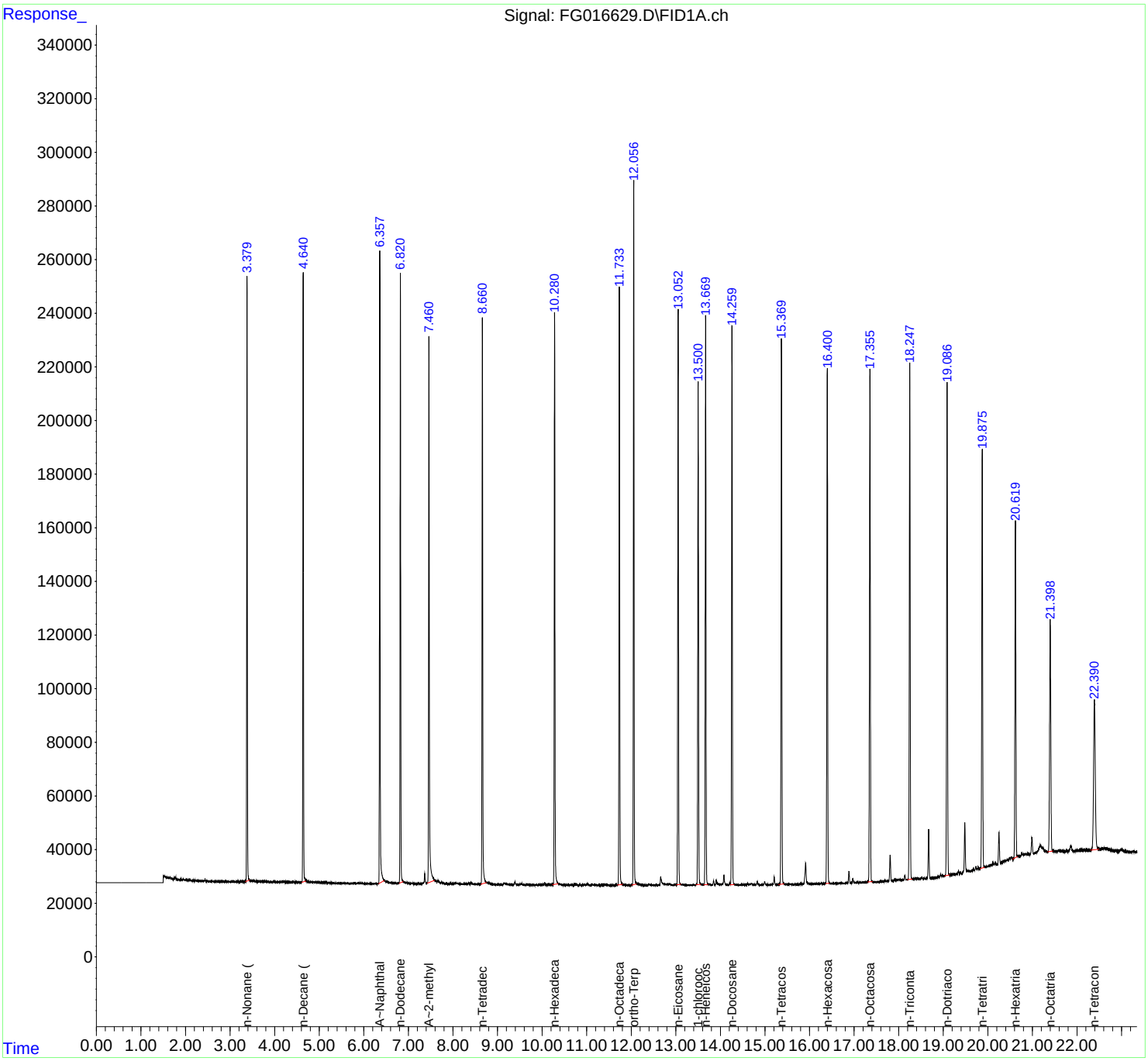
(f)=RT Delta > 1/2 Window (m)=manual int.

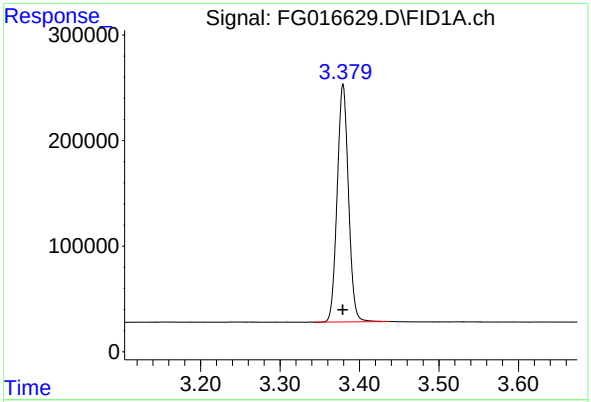
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016629.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 14:59
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 24 15:28:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:28:33 2025
Response via : Initial Calibration
Integrator: ChemStation

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

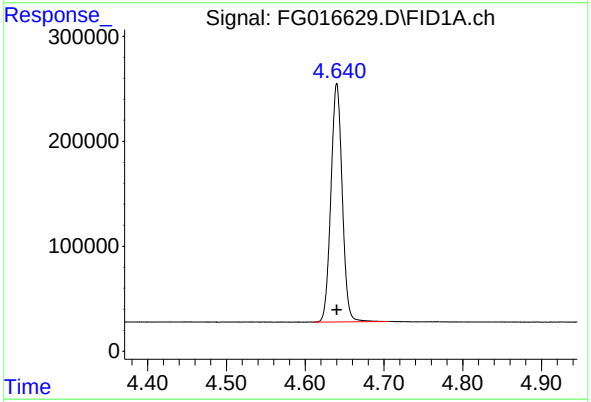




#1 n-Nonane (C9)

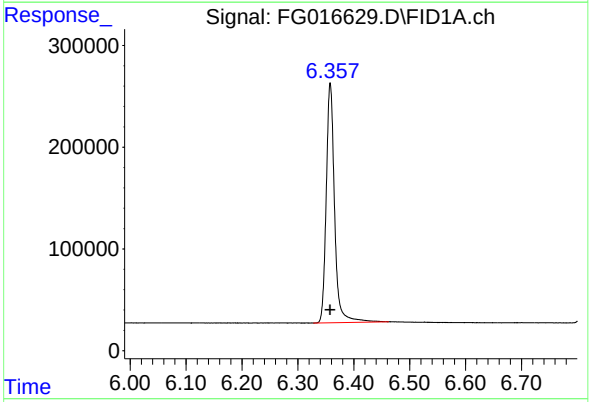
R.T.: 3.379 min
Delta R.T.: 0.000 min
Response: 2218763
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



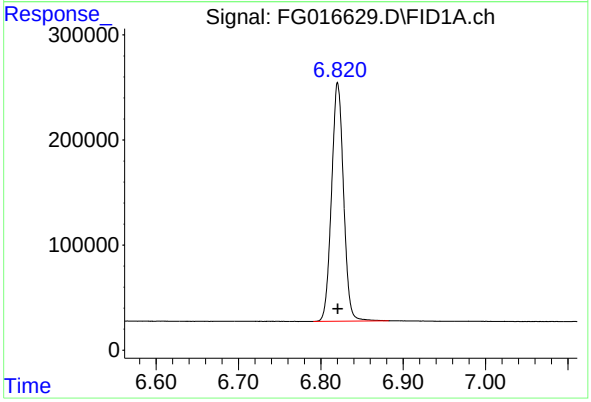
#2 n-Decane (C10)

R.T.: 4.640 min
Delta R.T.: 0.000 min
Response: 2266374
Conc: 20.00 ug/ml



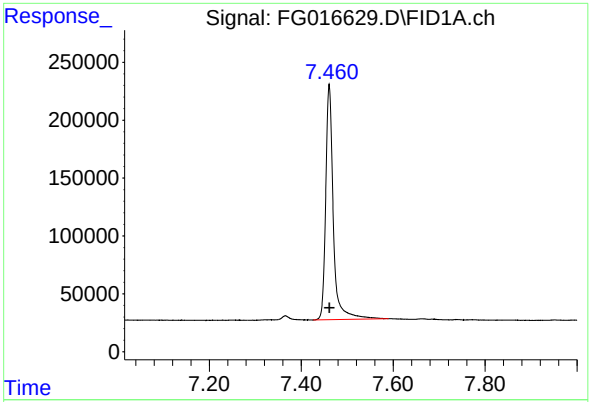
#3 A~Naphthalene (C11.7)

R.T.: 6.358 min
Delta R.T.: 0.000 min
Response: 2443325
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

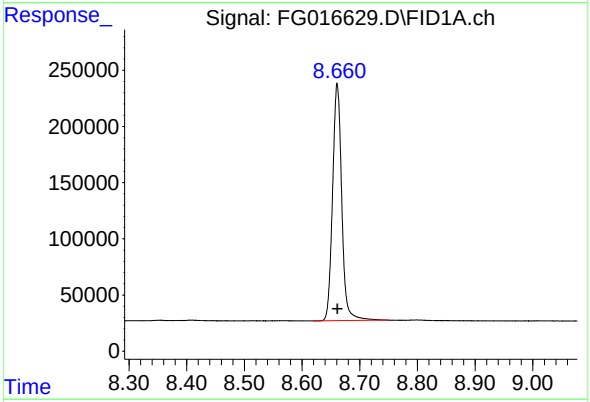
R.T.: 6.821 min
Delta R.T.: 0.000 min
Response: 2301495
Conc: 20.00 ug/ml



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

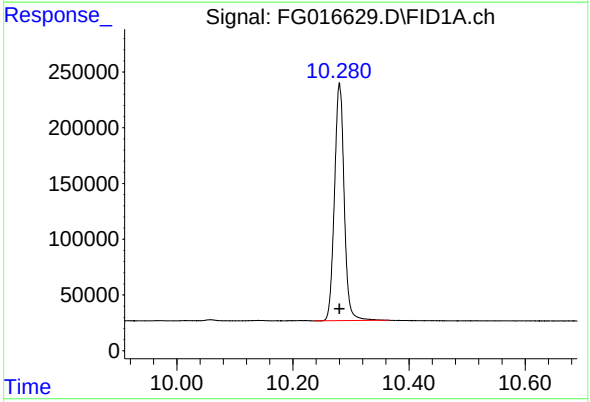
R.T.: 7.461 min
Delta R.T.: 0.000 min
Response: 2336645
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



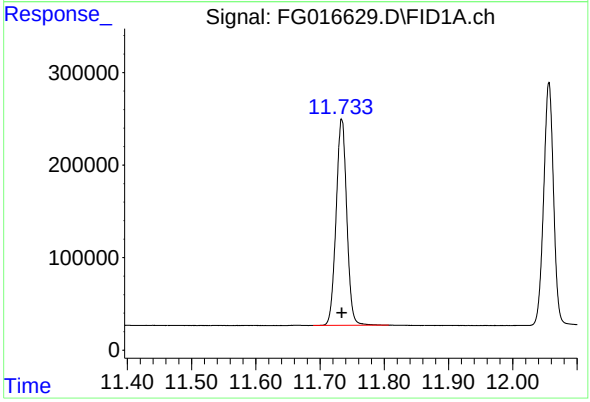
#6 n-Tetradecane (C14)

R.T.: 8.661 min
Delta R.T.: 0.000 min
Response: 2333891
Conc: 20.00 ug/ml



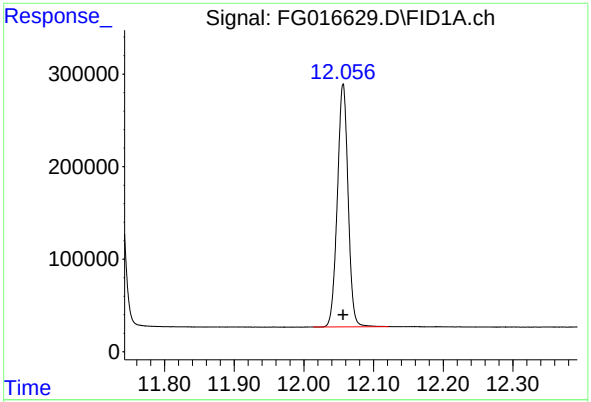
#7 n-Hexadecane (C16)

R.T.: 10.280 min
Delta R.T.: 0.000 min
Response: 2465707
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

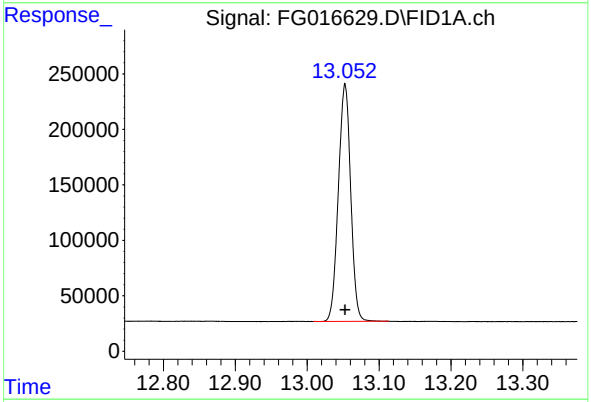
R.T.: 11.734 min
Delta R.T.: 0.000 min
Response: 2576996
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

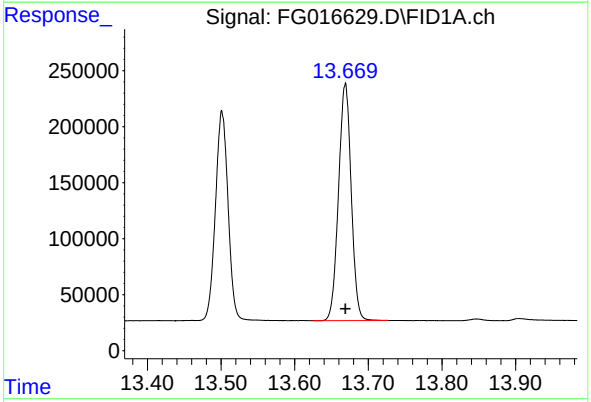
R.T.: 12.056 min
Delta R.T.: 0.000 min
Response: 2806722
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



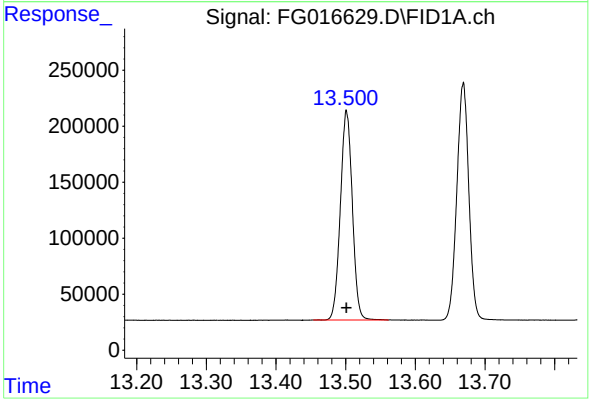
#10 n-Eicosane (C20)

R.T.: 13.053 min
Delta R.T.: 0.000 min
Response: 2549373
Conc: 20.00 ug/ml



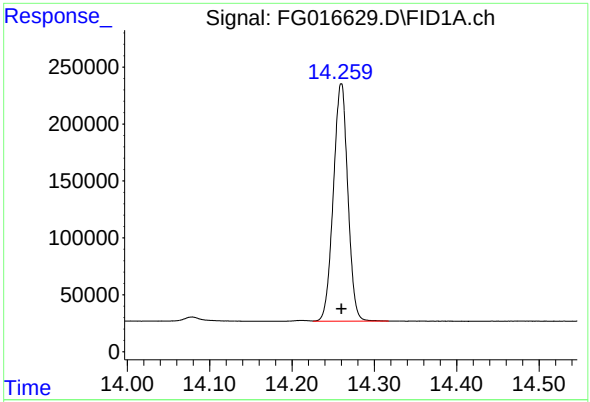
#11 n-Heneicosane (C21)

R.T.: 13.669 min
Delta R.T.: 0.000 min
Response: 2531414
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

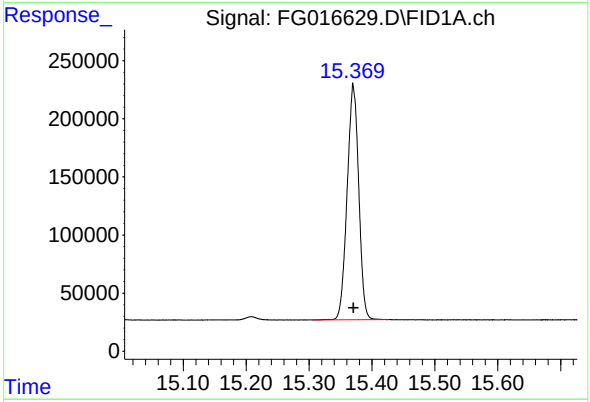
R.T.: 13.501 min
Delta R.T.: 0.000 min
Response: 2226973
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

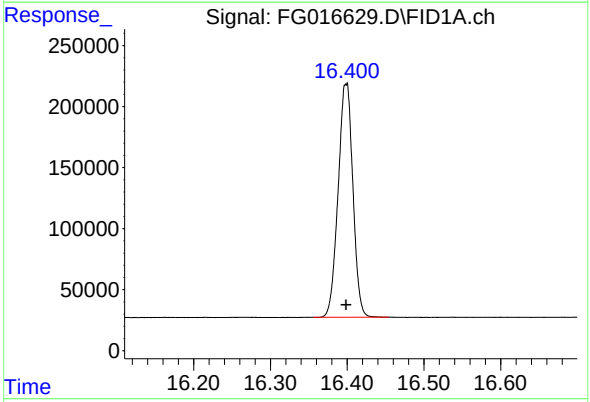
R.T.: 14.260 min
Delta R.T.: 0.000 min
Response: 2549976
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



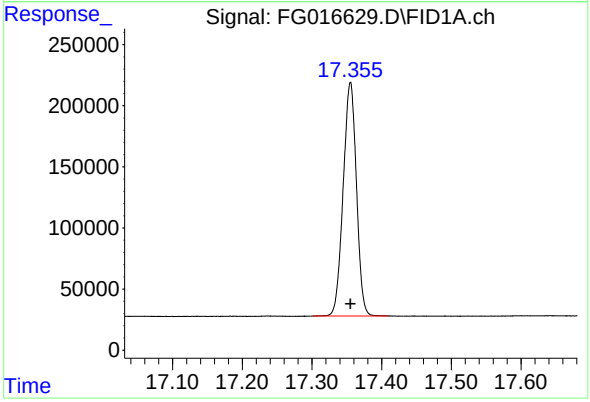
#14 n-Tetracosane (C24)

R.T.: 15.370 min
Delta R.T.: 0.000 min
Response: 2589634
Conc: 20.00 ug/ml



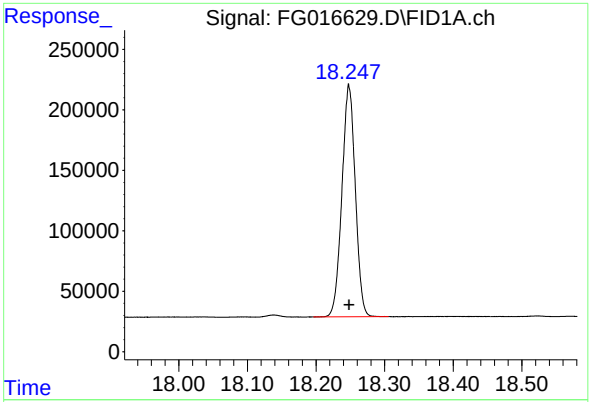
#15 n-Hexacosane (C26)

R.T.: 16.399 min
Delta R.T.: 0.000 min
Response: 2560143
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

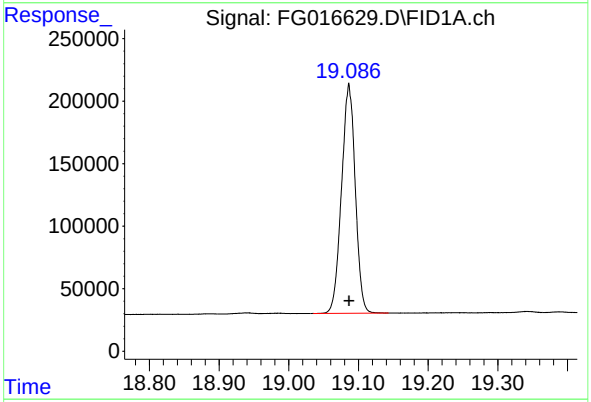
R.T.: 17.355 min
Delta R.T.: 0.000 min
Response: 2528827
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

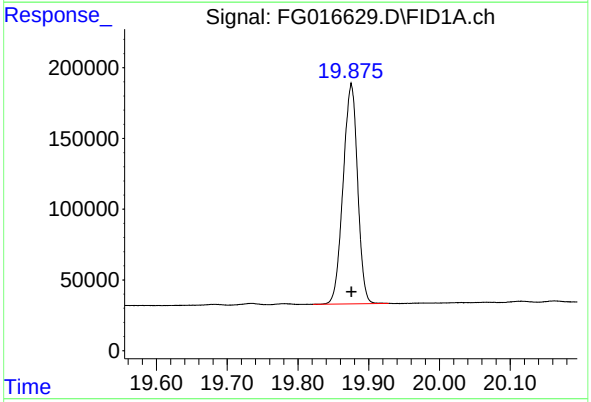
R.T.: 18.248 min
Delta R.T.: 0.000 min
Response: 2597221
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



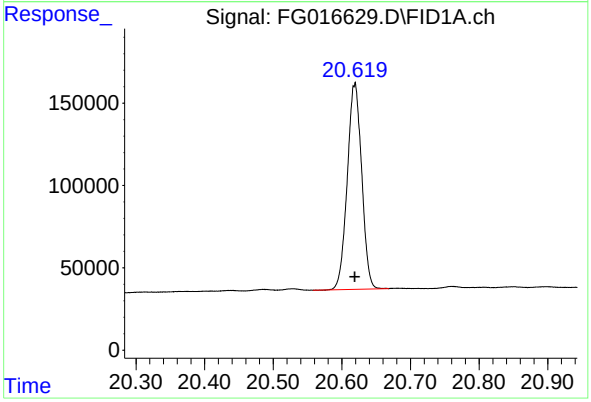
#18 n-Dotriacontane (C32)

R.T.: 19.086 min
Delta R.T.: 0.000 min
Response: 2512493
Conc: 20.00 ug/ml



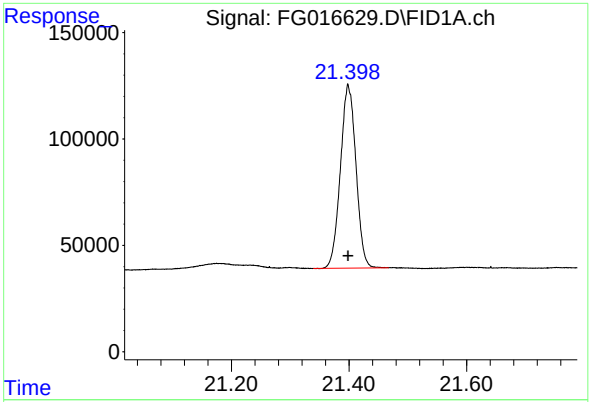
#19 n-Tetratriacontane (C34)

R.T.: 19.875 min
Delta R.T.: 0.000 min
Response: 2214195
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

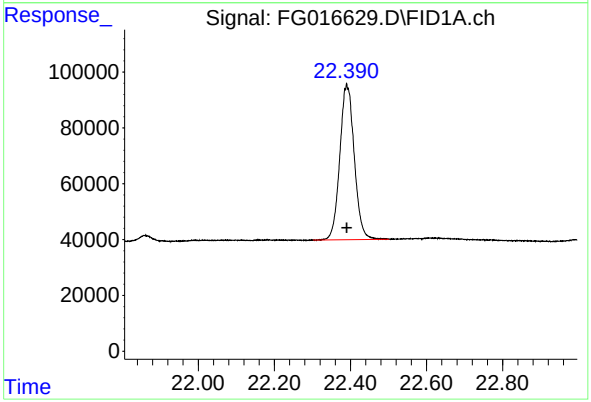
R.T.: 20.619 min
Delta R.T.: 0.000 min
Response: 1825466
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.398 min
Delta R.T.: 0.000 min
Response: 1581316
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.390 min
Delta R.T.: 0.000 min
Response: 1465265
Conc: 20.00 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016629.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 14:59
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.379	3.342	3.437	BB	225271	2218763	79.05%	4.310%
2	4.640	4.610	4.706	BB	227174	2266374	80.75%	4.402%
3	6.358	6.328	6.463	BB	235136	2443325	87.05%	4.746%
4	6.821	6.791	6.883	BB	226504	2301495	82.00%	4.470%
5	7.461	7.426	7.590	BB	203398	2336645	83.25%	4.539%
6	8.661	8.619	8.750	BB	210694	2333891	83.15%	4.533%
7	10.280	10.235	10.365	BB	212983	2465707	87.85%	4.789%
8	11.734	11.689	11.807	BB	222071	2576996	91.82%	5.006%
9	12.056	12.013	12.122	BB	262836	2806722	100.00%	5.452%
10	13.053	13.008	13.113	BB	214356	2549373	90.83%	4.952%
11	13.501	13.453	13.562	BB	185961	2226973	79.34%	4.326%
12	13.669	13.625	13.728	BB	212286	2531414	90.19%	4.917%
13	14.260	14.226	14.318	VB	208440	2549976	90.85%	4.953%
14	15.370	15.307	15.427	BB	202205	2589634	92.27%	5.030%
15	16.399	16.356	16.454	BB	190973	2560143	91.21%	4.973%
16	17.355	17.302	17.410	BB	191185	2528827	90.10%	4.912%
17	18.248	18.196	18.306	BB	190251	2597221	92.54%	5.045%
18	19.086	19.035	19.143	BB	183865	2512493	89.52%	4.880%
19	19.875	19.822	19.928	BB	155357	2214195	78.89%	4.301%
20	20.619	20.558	20.668	BB	125076	1825466	65.04%	3.546%
21	21.398	21.339	21.468	BB	86408	1581316	56.34%	3.072%
22	22.390	22.302	22.500	BB	55900	1465265	52.21%	2.846%
			Sum of corrected areas:			51482215		

Aliphatic EPH 092425.M Thu Sep 25 04:15:33 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016630.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 15:28
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 24 15:40:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:40:29 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)	12.055	1463116	10.439 ug/ml
Spiked Amount	50.000		Recovery =	20.88%
12) S	1-chlorooctadecane (S...	13.502	1157762	10.447 ug/ml
Spiked Amount	50.000		Recovery =	20.89%
	Target Compounds			
1) T	n-Nonane (C9)	3.380	1162484	10.424 ug/ml
2) T	n-Decane (C10)	4.640	1184621	10.401 ug/ml
3) T	A~Naphthalene (C11.7)	6.358	1244243	10.100 ug/ml
4) T	n-Dodecane (C12)	6.821	1196108	10.329 ug/ml
5) T	A~2-methylnaphthalene...	7.461	1142771	9.700 ug/ml
6) T	n-Tetradecane (C14)	8.661	1199975	10.282 ug/ml
7) T	n-Hexadecane (C16)	10.280	1267524	10.318 ug/ml
8) T	n-Octadecane (C18)	11.733	1333319	10.428 ug/ml
10) T	n-Eicosane (C20)	13.052	1328269	10.503 ug/ml
11) T	n-Heneicosane (C21)	13.668	1317314	10.489 ug/ml
13) T	n-Docosane (C22)	14.259	1321673	10.472 ug/ml
14) T	n-Tetracosane (C24)	15.370	1336986	10.470 ug/ml
15) T	n-Hexacosane (C26)	16.399	1325441	10.488 ug/ml
16) T	n-Octacosane (C28)	17.354	1301210	10.494 ug/ml
17) T	n-Tricontane (C30)	18.247	1309761	10.509 ug/ml
18) T	n-Dotriacontane (C32)	19.085	1246476	10.532 ug/ml
19) T	n-Tetratriacontane (C34)	19.873	1114409	10.568 ug/ml
20) T	n-Hexatriacontane (C36)	20.618	950327	10.651 ug/ml
21) T	n-Octatriacontane (C38)	21.400	864915	10.841 ug/ml
22) T	n-Tetracontane (C40)	22.393	820694	10.960 ug/ml

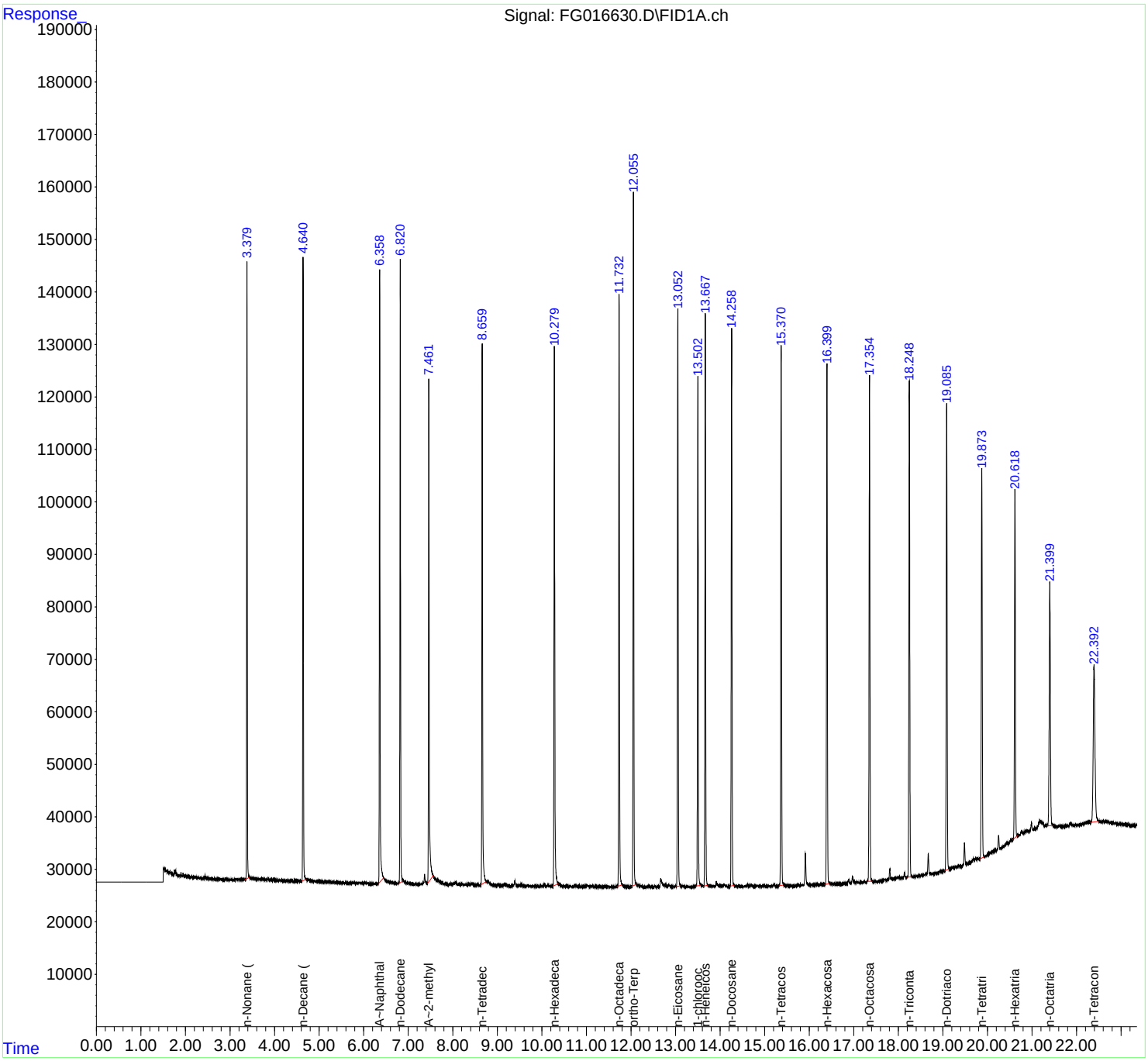
(f)=RT Delta > 1/2 Window (m)=manual int.

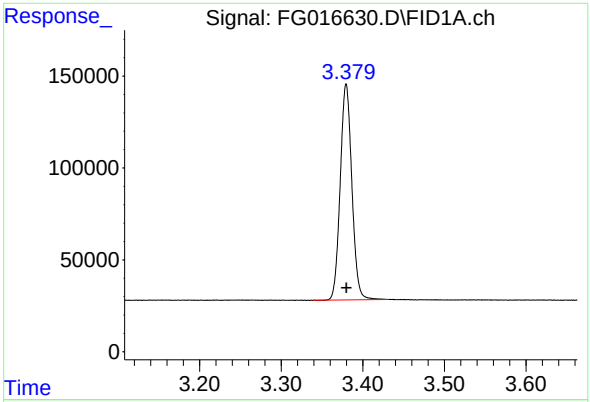
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016630.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 15:28
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 24 15:40:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:40:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

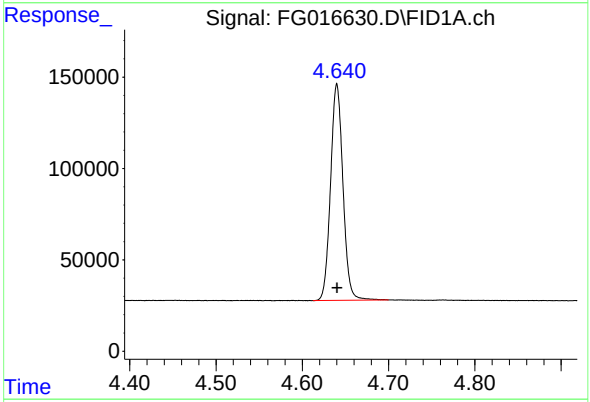




#1 n-Nonane (C9)

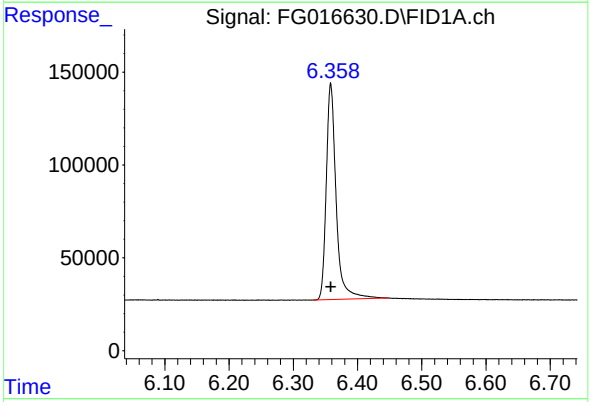
R.T.: 3.380 min
Delta R.T.: 0.000 min
Response: 1162484
Conc: 10.42 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



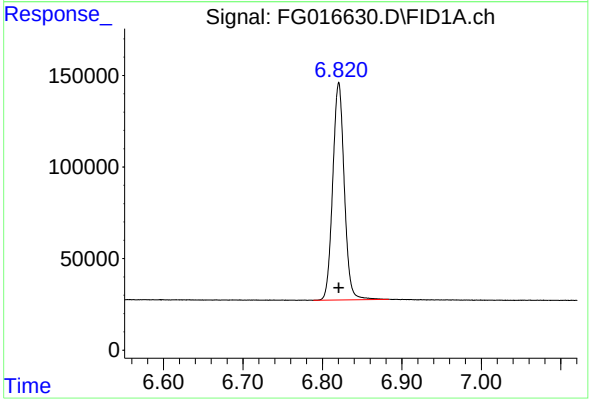
#2 n-Decane (C10)

R.T.: 4.640 min
Delta R.T.: 0.000 min
Response: 1184621
Conc: 10.40 ug/ml



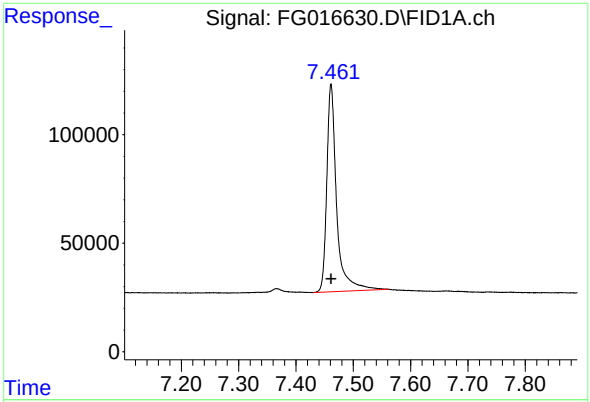
#3 A~Naphthalene (C11.7)

R.T.: 6.358 min
Delta R.T.: 0.000 min
Response: 1244243
Conc: 10.10 ug/ml



#4 n-Dodecane (C12)

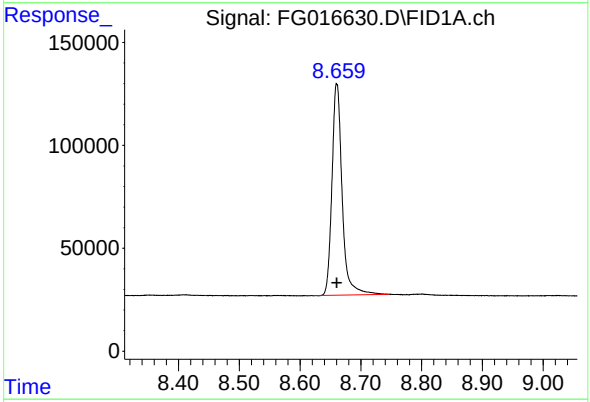
R.T.: 6.821 min
Delta R.T.: 0.000 min
Response: 1196108
Conc: 10.33 ug/ml



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

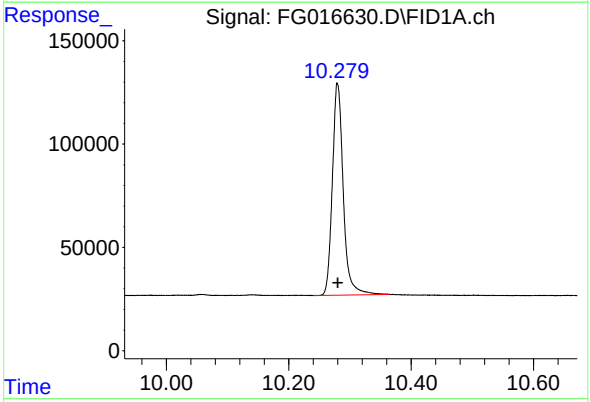
R.T.: 7.461 min
Delta R.T.: 0.000 min
Response: 1142771
Conc: 9.70 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



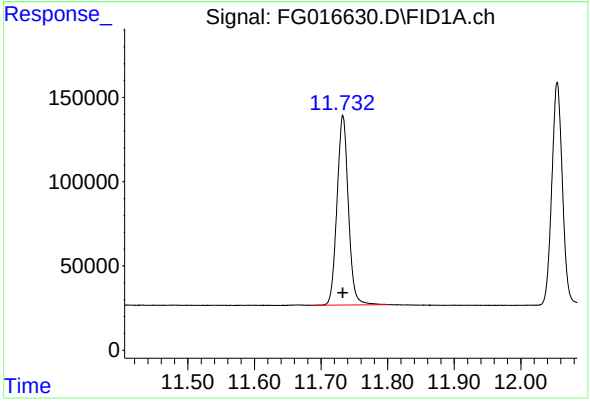
#6 n-Tetradecane (C14)

R.T.: 8.661 min
Delta R.T.: 0.000 min
Response: 1199975
Conc: 10.28 ug/ml



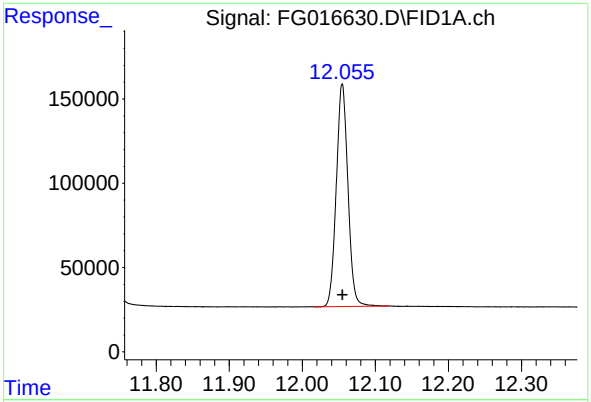
#7 n-Hexadecane (C16)

R.T.: 10.280 min
Delta R.T.: 0.000 min
Response: 1267524
Conc: 10.32 ug/ml



#8 n-Octadecane (C18)

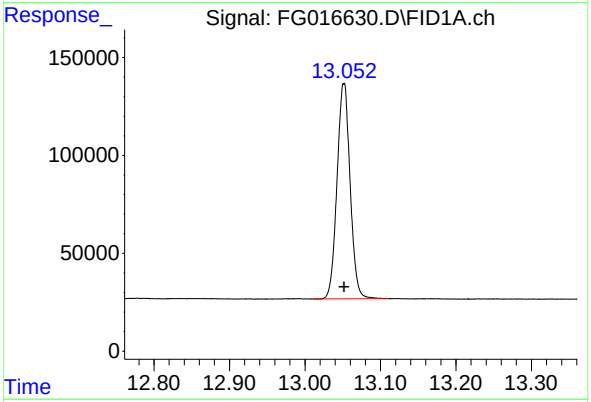
R.T.: 11.733 min
Delta R.T.: 0.000 min
Response: 1333319
Conc: 10.43 ug/ml



#9 ortho-Terphenyl (SURR)

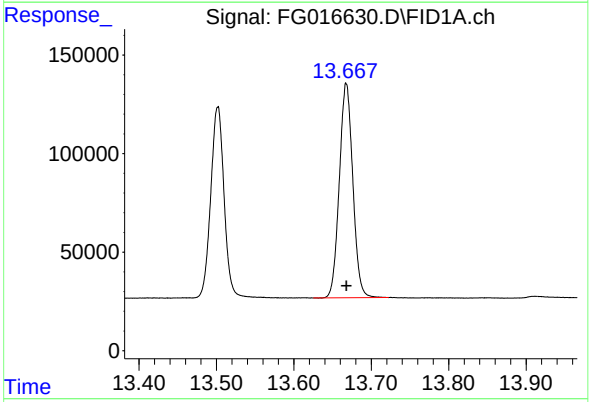
R.T.: 12.055 min
Delta R.T.: 0.000 min
Response: 1463116
Conc: 10.44 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



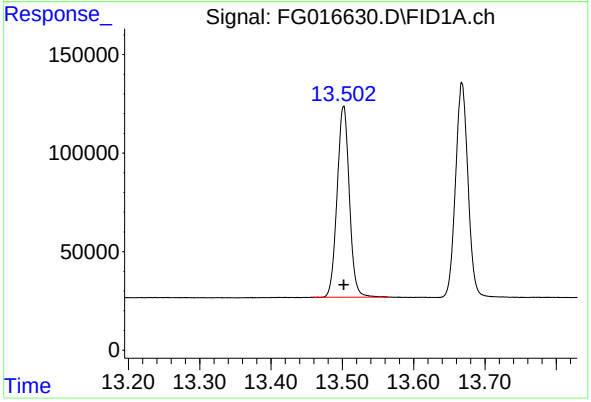
#10 n-Eicosane (C20)

R.T.: 13.052 min
Delta R.T.: 0.000 min
Response: 1328269
Conc: 10.50 ug/ml



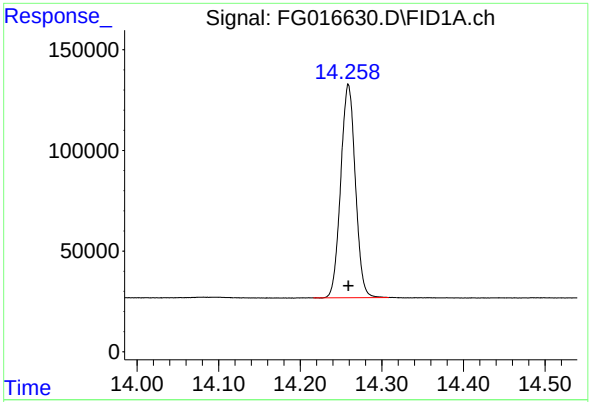
#11 n-Heneicosane (C21)

R.T.: 13.668 min
Delta R.T.: 0.000 min
Response: 1317314
Conc: 10.49 ug/ml



#12 1-chlorooctadecane (SURR)

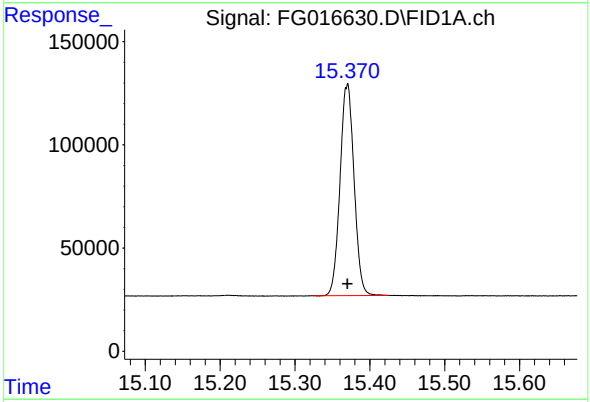
R.T.: 13.502 min
Delta R.T.: 0.000 min
Response: 1157762
Conc: 10.45 ug/ml



#13 n-Docosane (C22)

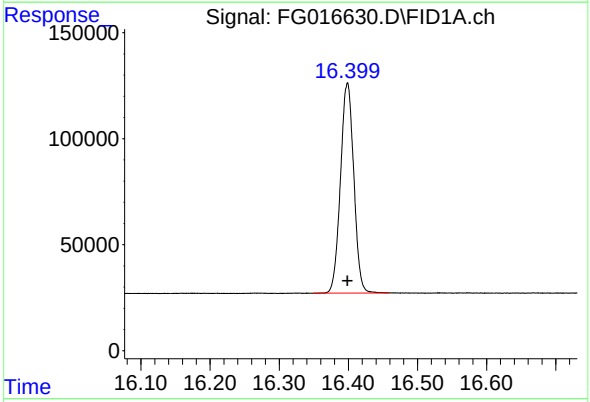
R.T.: 14.259 min
Delta R.T.: 0.000 min
Response: 1321673
Conc: 10.47 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



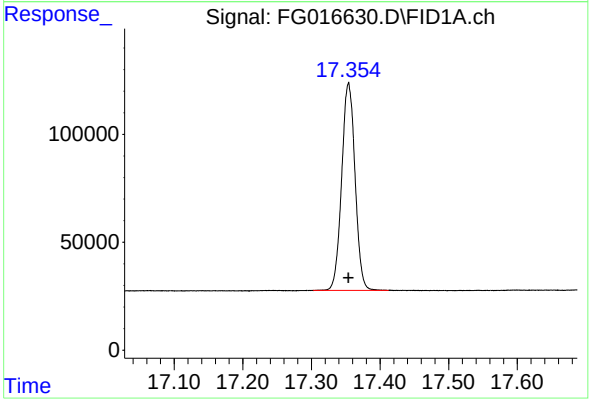
#14 n-Tetracosane (C24)

R.T.: 15.370 min
Delta R.T.: 0.000 min
Response: 1336986
Conc: 10.47 ug/ml



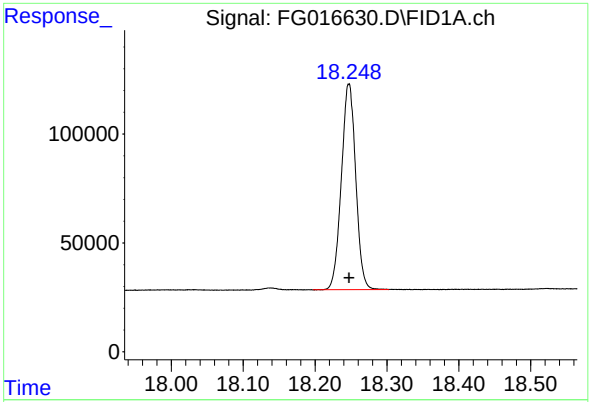
#15 n-Hexacosane (C26)

R.T.: 16.399 min
Delta R.T.: 0.000 min
Response: 1325441
Conc: 10.49 ug/ml



#16 n-Octacosane (C28)

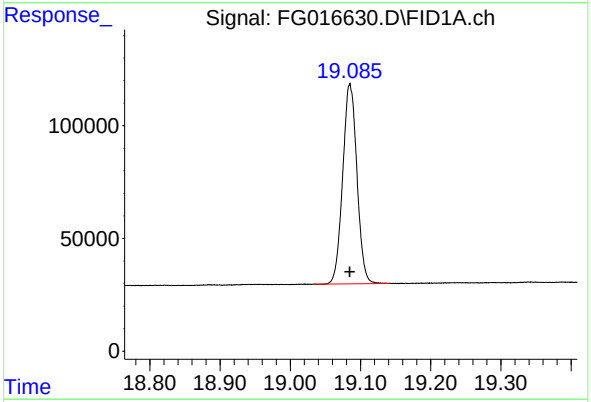
R.T.: 17.354 min
Delta R.T.: 0.000 min
Response: 1301210
Conc: 10.49 ug/ml



#17 n-Tricontane (C30)

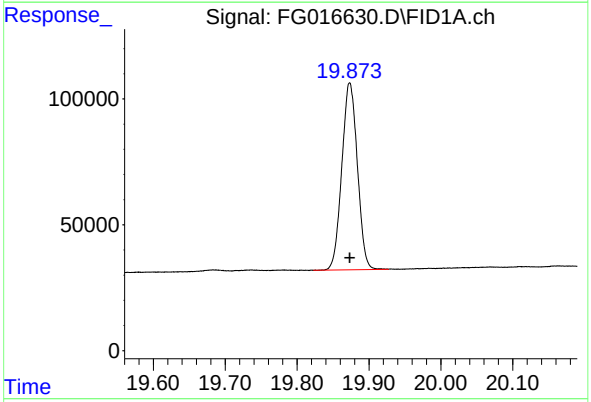
R.T.: 18.247 min
Delta R.T.: 0.000 min
Response: 1309761
Conc: 10.51 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



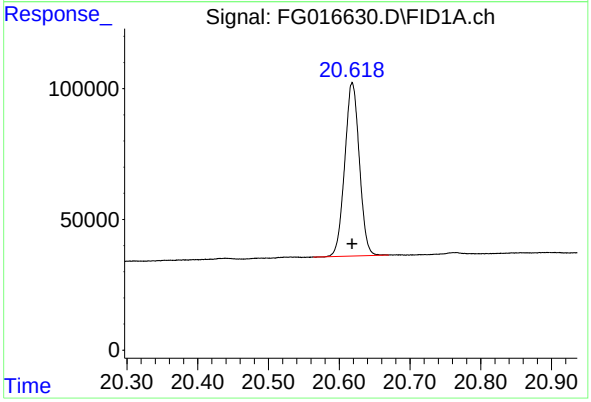
#18 n-Dotriacontane (C32)

R.T.: 19.085 min
Delta R.T.: 0.000 min
Response: 1246476
Conc: 10.53 ug/ml



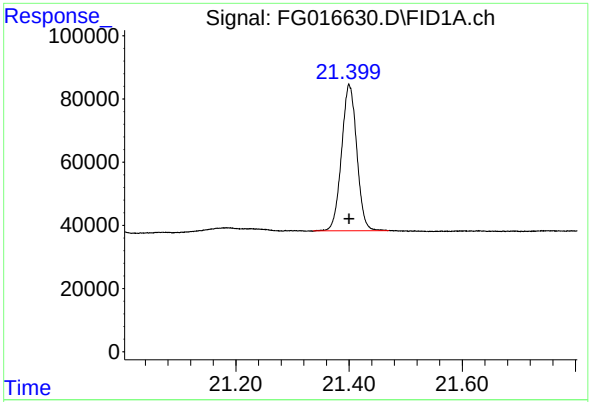
#19 n-Tetratriacontane (C34)

R.T.: 19.873 min
Delta R.T.: 0.000 min
Response: 1114409
Conc: 10.57 ug/ml



#20 n-Hexatriacontane (C36)

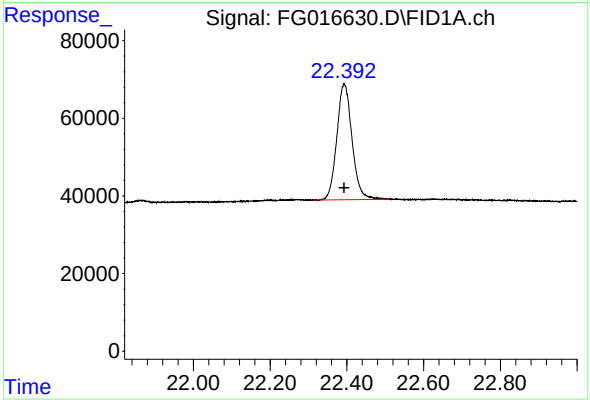
R.T.: 20.618 min
Delta R.T.: 0.000 min
Response: 950327
Conc: 10.65 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.400 min
Delta R.T.: 0.000 min
Response: 864915
Conc: 10.84 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.393 min
Delta R.T.: 0.000 min
Response: 820694
Conc: 10.96 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016630.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 15:28
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.380	3.339	3.432	BB	117640	1162484	79.45%	4.372%
2	4.640	4.612	4.700	BB	118693	1184621	80.97%	4.455%
3	6.358	6.331	6.448	BB	116559	1244243	85.04%	4.679%
4	6.821	6.788	6.883	BB	118846	1196108	81.75%	4.498%
5	7.461	7.430	7.562	BB	95886	1142771	78.11%	4.298%
6	8.661	8.622	8.746	BB	102358	1199975	82.02%	4.513%
7	10.280	10.240	10.363	BB	102103	1267524	86.63%	4.767%
8	11.733	11.688	11.802	BB	112656	1333319	91.13%	5.014%
9	12.055	12.015	12.118	BB	132258	1463116	100.00%	5.503%
10	13.052	13.011	13.111	BB	109729	1328269	90.78%	4.995%
11	13.502	13.459	13.565	BB	96712	1157762	79.13%	4.354%
12	13.668	13.625	13.723	BB	108749	1317314	90.03%	4.954%
13	14.259	14.216	14.308	BB	105833	1321673	90.33%	4.971%
14	15.370	15.324	15.425	BB	102437	1336986	91.38%	5.028%
15	16.399	16.349	16.458	BB	99306	1325441	90.59%	4.985%
16	17.354	17.303	17.413	BB	96249	1301210	88.93%	4.894%
17	18.247	18.198	18.303	BB	94280	1309761	89.52%	4.926%
18	19.085	19.033	19.140	BB	88746	1246476	85.19%	4.688%
19	19.873	19.823	19.928	BB	74281	1114409	76.17%	4.191%
20	20.618	20.563	20.670	BB	66387	950327	64.95%	3.574%
21	21.400	21.337	21.470	BB	46353	864915	59.11%	3.253%
22	22.393	22.312	22.509	BB	29796	820694	56.09%	3.087%
			Sum of corrected areas:			26589398		

Aliphatic EPH 092425.M Thu Sep 25 04:15:50 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016631.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 15:58
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 24 16:20:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:19:39 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)	12.055	762580	5.346 ug/ml
Spiked Amount	50.000		Recovery =	10.69%
12) S	1-chlorooctadecane (S...	13.502	605295	5.363 ug/ml
Spiked Amount	50.000		Recovery =	10.73%
	Target Compounds			
1) T	n-Nonane (C9)	3.379	606671	5.346 ug/ml
2) T	n-Decane (C10)	4.640	613414	5.304 ug/ml
3) T	A~Naphthalene (C11.7)	6.359	618463	5.016 ug/ml
4) T	n-Dodecane (C12)	6.821	618459	5.269 ug/ml
5) T	A~2-methylnaphthalene...	7.462	535605	4.630 ug/ml
6) T	n-Tetradecane (C14)	8.661	598970	5.105 ug/ml
7) T	n-Hexadecane (C16)	10.280	640765	5.171 ug/ml
8) T	n-Octadecane (C18)	11.733	697381	5.357 ug/ml
10) T	n-Eicosane (C20)	13.051	702619	5.435 ug/ml
11) T	n-Heneicosane (C21)	13.668	698486	5.439 ug/ml
13) T	n-Docosane (C22)	14.259	699503	5.425 ug/ml
14) T	n-Tetracosane (C24)	15.370	706536	5.417 ug/ml
15) T	n-Hexacosane (C26)	16.398	699770	5.421 ug/ml
16) T	n-Octacosane (C28)	17.355	692578	5.457 ug/ml
17) T	n-Tricontane (C30)	18.248	706248	5.520 ug/ml
18) T	n-Dotriacontane (C32)	19.086	694705	5.672 ug/ml
19) T	n-Tetratriacontane (C34)	19.874	606787	5.586 ug/ml
20) T	n-Hexatriacontane (C36)	20.619	487239	5.362 ug/ml
21) T	n-Octatriacontane (C38)	21.401	440470	5.408 ug/ml
22) T	n-Tetracontane (C40)	22.394	430934	5.586 ug/ml

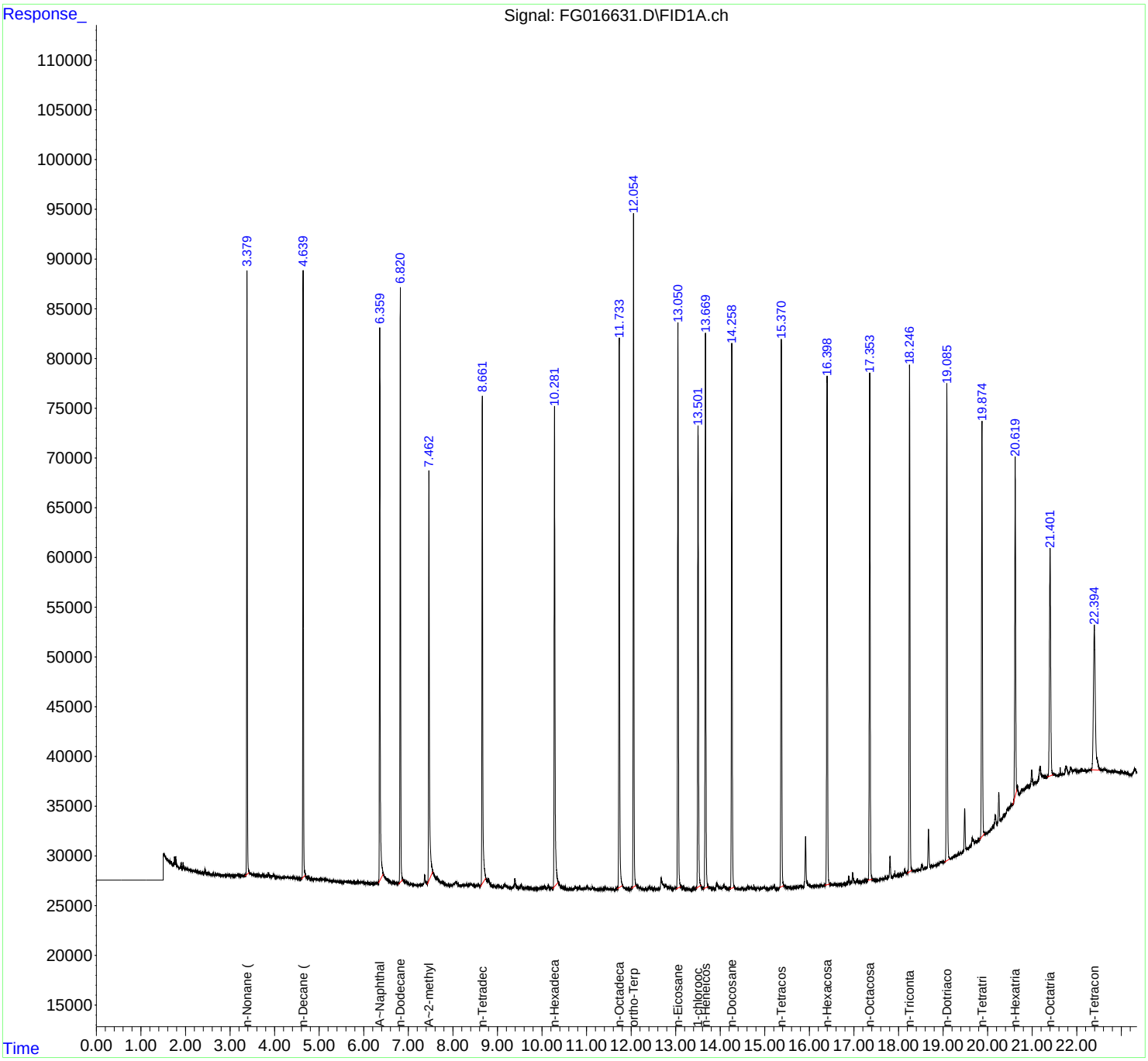
(f)=RT Delta > 1/2 Window (m)=manual int.

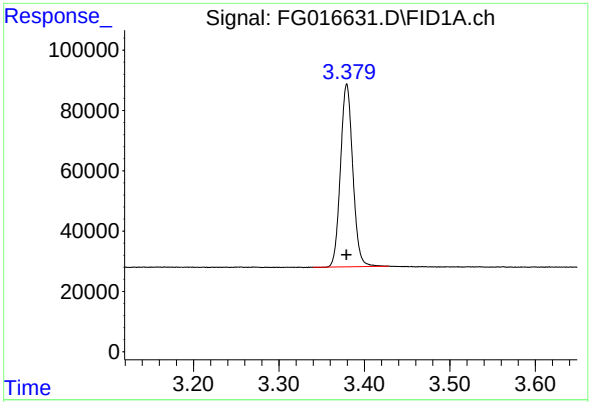
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016631.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 15:58
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 24 16:20:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:19:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

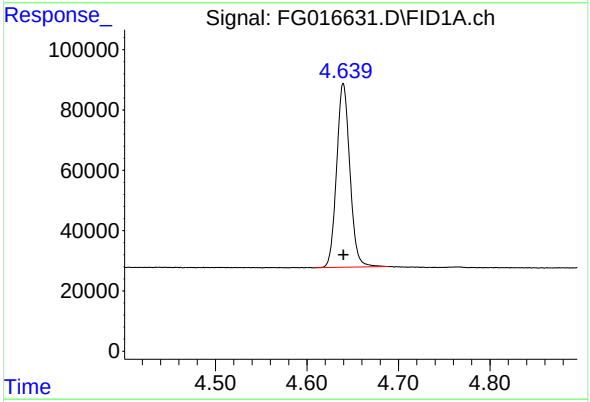




#1 n-Nonane (C9)

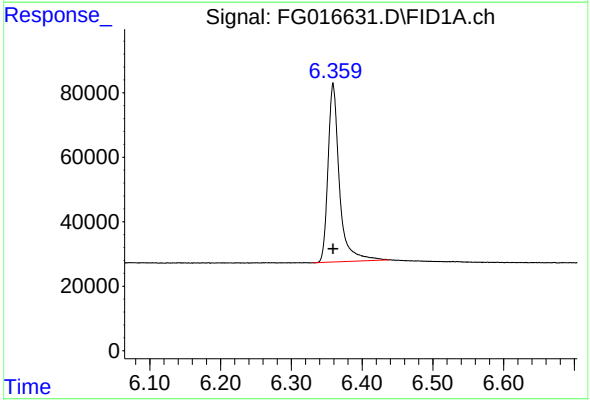
R.T.: 3.379 min
Delta R.T.: 0.000 min
Response: 606671
Conc: 5.35 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



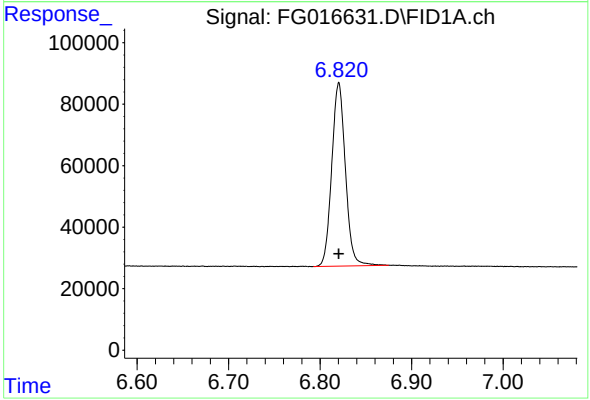
#2 n-Decane (C10)

R.T.: 4.640 min
Delta R.T.: 0.000 min
Response: 613414
Conc: 5.30 ug/ml



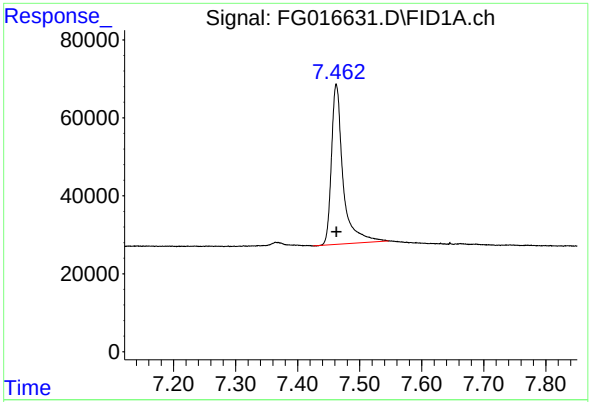
#3 A~Naphthalene (C11.7)

R.T.: 6.359 min
Delta R.T.: 0.000 min
Response: 618463
Conc: 5.02 ug/ml



#4 n-Dodecane (C12)

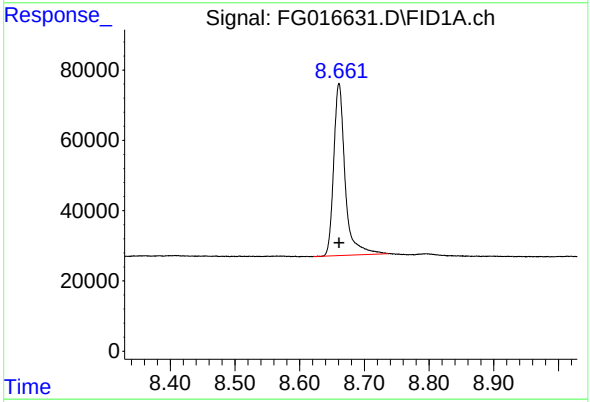
R.T.: 6.821 min
Delta R.T.: 0.000 min
Response: 618459
Conc: 5.27 ug/ml



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

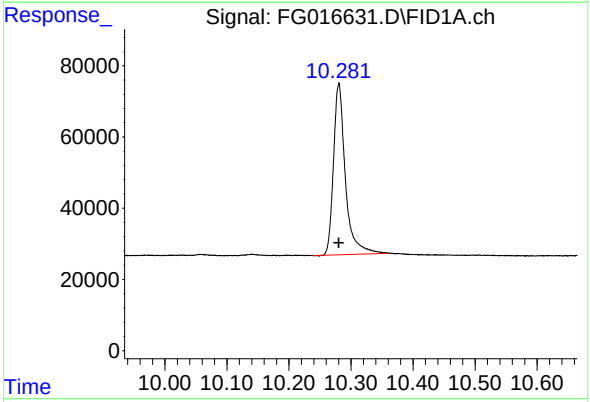
R.T.: 7.462 min
Delta R.T.: 0.000 min
Response: 535605
Conc: 4.63 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



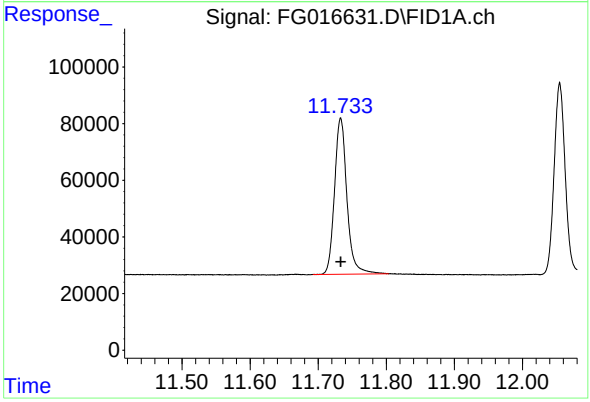
#6 n-Tetradecane (C14)

R.T.: 8.661 min
Delta R.T.: 0.000 min
Response: 598970
Conc: 5.11 ug/ml



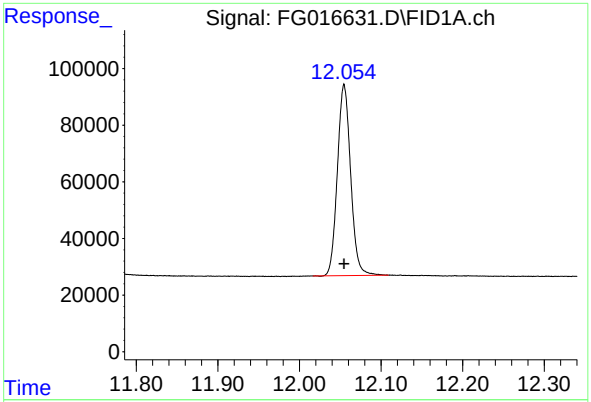
#7 n-Hexadecane (C16)

R.T.: 10.280 min
Delta R.T.: 0.000 min
Response: 640765
Conc: 5.17 ug/ml



#8 n-Octadecane (C18)

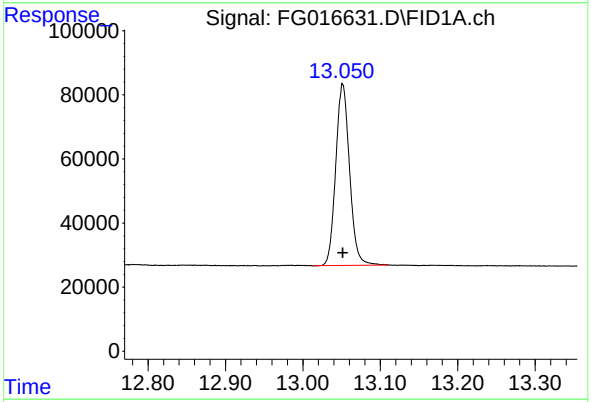
R.T.: 11.733 min
Delta R.T.: 0.000 min
Response: 697381
Conc: 5.36 ug/ml



#9 ortho-Terphenyl (SURR)

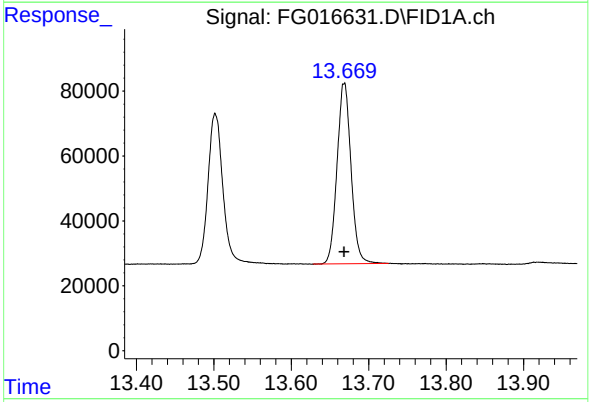
R.T.: 12.055 min
Delta R.T.: 0.000 min
Response: 762580
Conc: 5.35 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



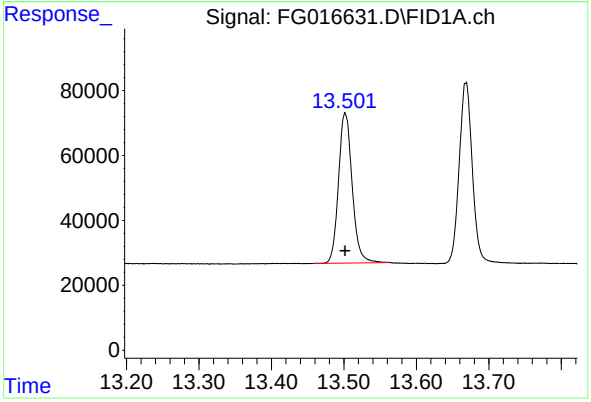
#10 n-Eicosane (C20)

R.T.: 13.051 min
Delta R.T.: 0.000 min
Response: 702619
Conc: 5.44 ug/ml



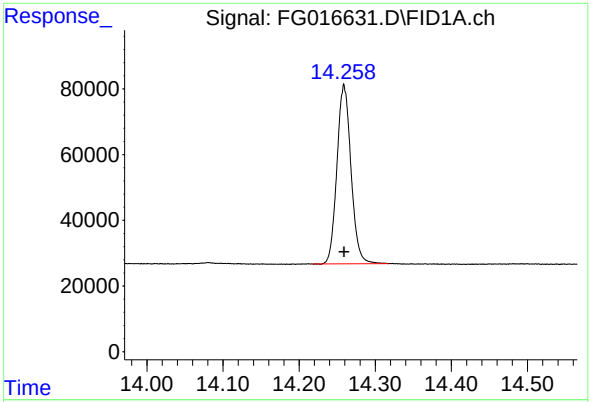
#11 n-Heneicosane (C21)

R.T.: 13.668 min
Delta R.T.: 0.000 min
Response: 698486
Conc: 5.44 ug/ml



#12 1-chlorooctadecane (SURR)

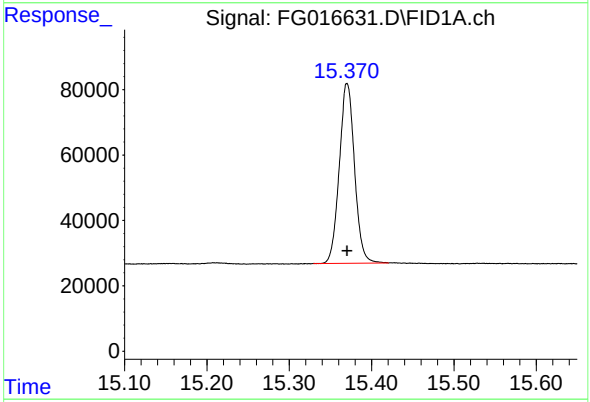
R.T.: 13.502 min
Delta R.T.: 0.000 min
Response: 605295
Conc: 5.36 ug/ml



#13 n-Docosane (C22)

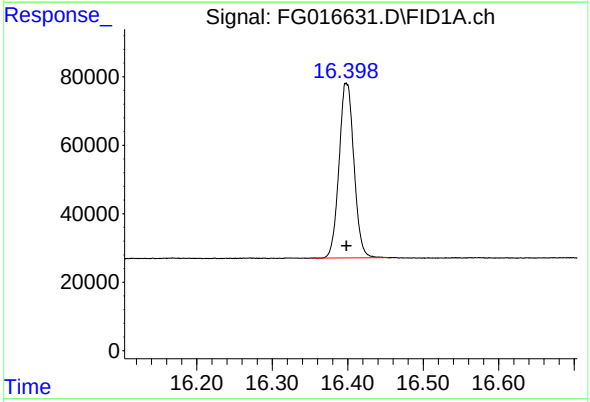
R.T.: 14.259 min
Delta R.T.: 0.000 min
Response: 699503
Conc: 5.42 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



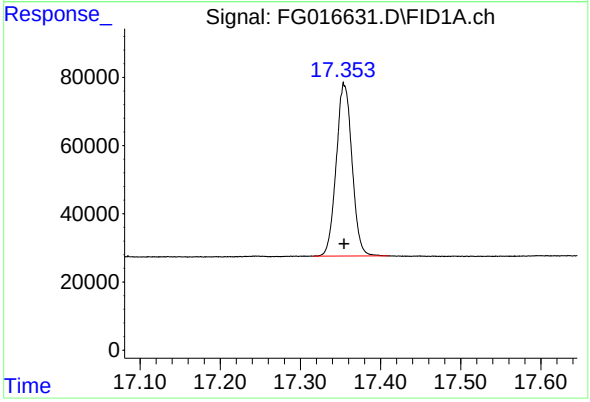
#14 n-Tetracosane (C24)

R.T.: 15.370 min
Delta R.T.: 0.000 min
Response: 706536
Conc: 5.42 ug/ml



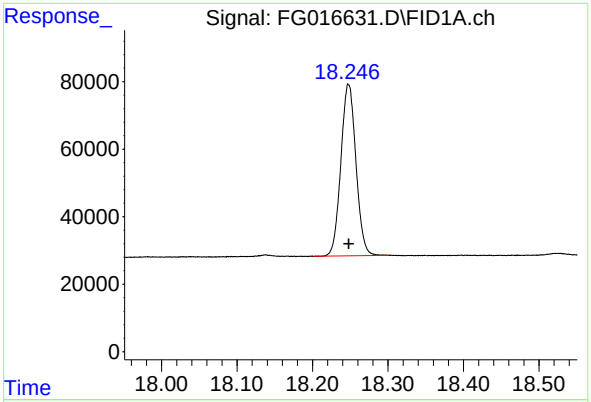
#15 n-Hexacosane (C26)

R.T.: 16.398 min
Delta R.T.: 0.000 min
Response: 699770
Conc: 5.42 ug/ml



#16 n-Octacosane (C28)

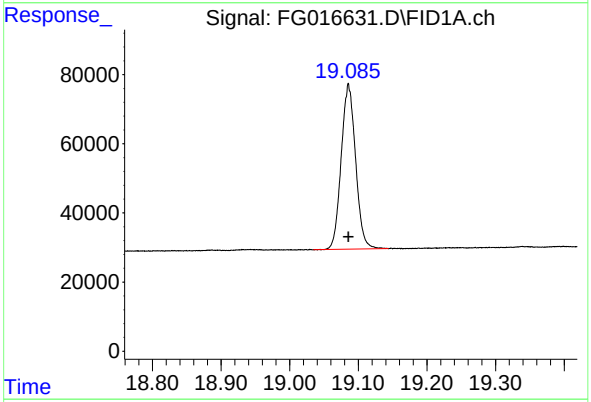
R.T.: 17.355 min
Delta R.T.: 0.000 min
Response: 692578
Conc: 5.46 ug/ml



#17 n-Tricontane (C30)

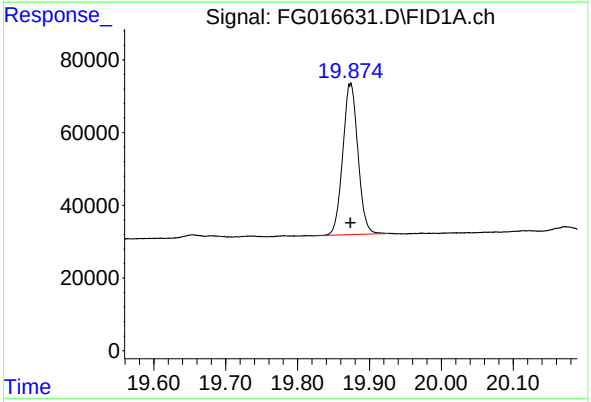
R.T.: 18.248 min
Delta R.T.: 0.000 min
Response: 706248
Conc: 5.52 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



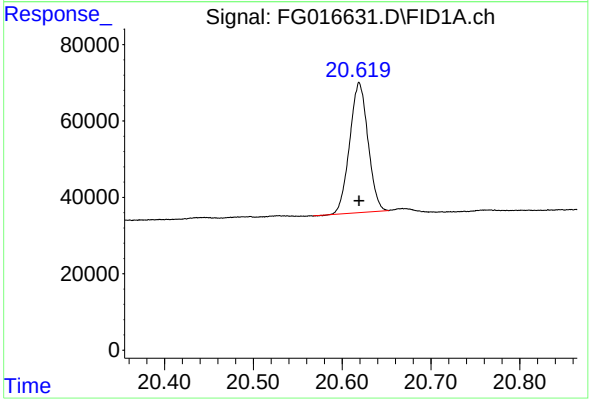
#18 n-Dotriacontane (C32)

R.T.: 19.086 min
Delta R.T.: 0.000 min
Response: 694705
Conc: 5.67 ug/ml



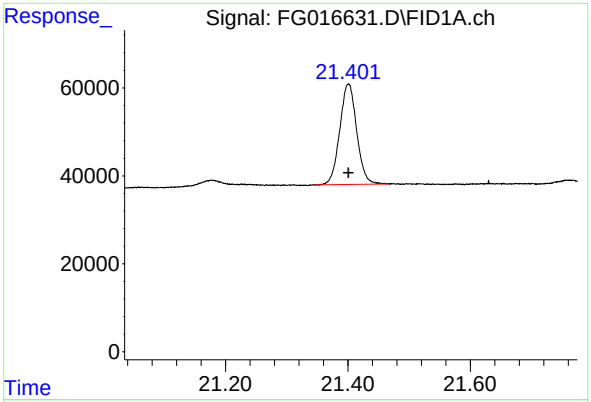
#19 n-Tetratriacontane (C34)

R.T.: 19.874 min
Delta R.T.: 0.000 min
Response: 606787
Conc: 5.59 ug/ml



#20 n-Hexatriacontane (C36)

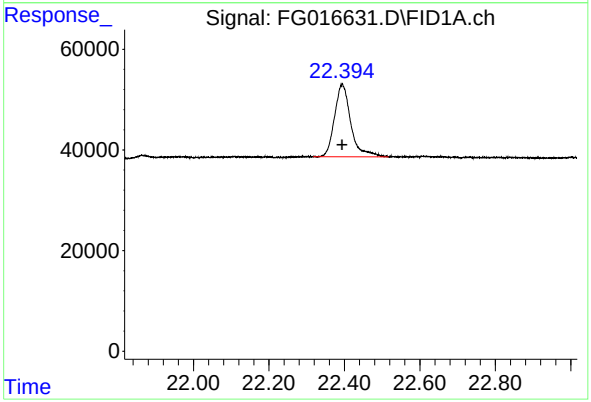
R.T.: 20.619 min
Delta R.T.: 0.000 min
Response: 487239
Conc: 5.36 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.401 min
Delta R.T.: 0.000 min
Response: 440470
Conc: 5.41 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.394 min
Delta R.T.: 0.000 min
Response: 430934
Conc: 5.59 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016631.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 15:58
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.379	3.340	3.428	BB	60642	606671	79.56%	4.376%
2	4.640	4.607	4.689	BB	60984	613414	80.44%	4.425%
3	6.359	6.331	6.438	BB	55370	618463	81.10%	4.461%
4	6.821	6.793	6.875	BB	59862	618459	81.10%	4.461%
5	7.462	7.425	7.547	BB	41057	535605	70.24%	3.863%
6	8.661	8.621	8.738	BB	48990	598970	78.55%	4.320%
7	10.280	10.239	10.361	BB	48339	640765	84.03%	4.622%
8	11.733	11.693	11.803	BB	55216	697381	91.45%	5.030%
9	12.055	12.017	12.109	BB	67606	762580	100.00%	5.501%
10	13.051	13.013	13.111	BB	56382	702619	92.14%	5.068%
11	13.502	13.458	13.562	BB	46321	605295	79.37%	4.366%
12	13.668	13.628	13.726	BB	55450	698486	91.60%	5.038%
13	14.259	14.218	14.318	BB	54602	699503	91.73%	5.046%
14	15.370	15.329	15.421	BB	54964	706536	92.65%	5.096%
15	16.398	16.354	16.454	BB	51097	699770	91.76%	5.048%
16	17.355	17.316	17.410	BB	49786	692578	90.82%	4.996%
17	18.248	18.201	18.301	BB	50736	706248	92.61%	5.094%
18	19.086	19.034	19.144	BB	47826	694705	91.10%	5.011%
19	19.874	19.822	19.927	BB	41204	606787	79.57%	4.377%
20	20.619	20.568	20.653	BV	34087	487239	63.89%	3.515%
21	21.401	21.343	21.467	BB	22869	440470	57.76%	3.177%
22	22.394	22.317	22.517	BB	14572	430934	56.51%	3.108%
			Sum of corrected areas:			13863477		

Aliphatic EPH 092425.M Thu Sep 25 04:16:46 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016632.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 16:28
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 24 16:37:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 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)	12.057	2817681	19.755 ug/ml
Spiked Amount	50.000		Recovery =	39.51%
12)	S 1-chlorooctadecane (S...	13.502	2240344	19.848 ug/ml
Spiked Amount	50.000		Recovery =	39.70%
	Target Compounds			
1)	T n-Nonane (C9)	3.380	2232664	19.674 ug/ml
2)	T n-Decane (C10)	4.640	2275953	19.679 ug/ml
3)	T A~Naphthalene (C11.7)	6.358	2447786	19.853 ug/ml
4)	T n-Dodecane (C12)	6.821	2310492	19.684 ug/ml
5)	T A~2-methylnaphthalene...	7.461	2342091	20.247 ug/ml
6)	T n-Tetradecane (C14)	8.661	2341137	19.955 ug/ml
7)	T n-Hexadecane (C16)	10.280	2476808	19.990 ug/ml
8)	T n-Octadecane (C18)	11.734	2588745	19.886 ug/ml
10)	T n-Eicosane (C20)	13.052	2566701	19.855 ug/ml
11)	T n-Heneicosane (C21)	13.669	2545416	19.822 ug/ml
13)	T n-Docosane (C22)	14.259	2554929	19.814 ug/ml
14)	T n-Tetracosane (C24)	15.371	2589279	19.853 ug/ml
15)	T n-Hexacosane (C26)	16.398	2565593	19.875 ug/ml
16)	T n-Octacosane (C28)	17.356	2535026	19.976 ug/ml
17)	T n-Tricontane (C30)	18.248	2616805	20.451 ug/ml
18)	T n-Dotriacontane (C32)	19.086	2540356	20.742 ug/ml
19)	T n-Tetratriacontane (C34)	19.875	2237978	20.601 ug/ml
20)	T n-Hexatriacontane (C36)	20.619	1831577	20.156 ug/ml
21)	T n-Octatriacontane (C38)	21.398	1591995	19.548 ug/ml
22)	T n-Tetracontane (C40)	22.393	1450457	18.803 ug/ml

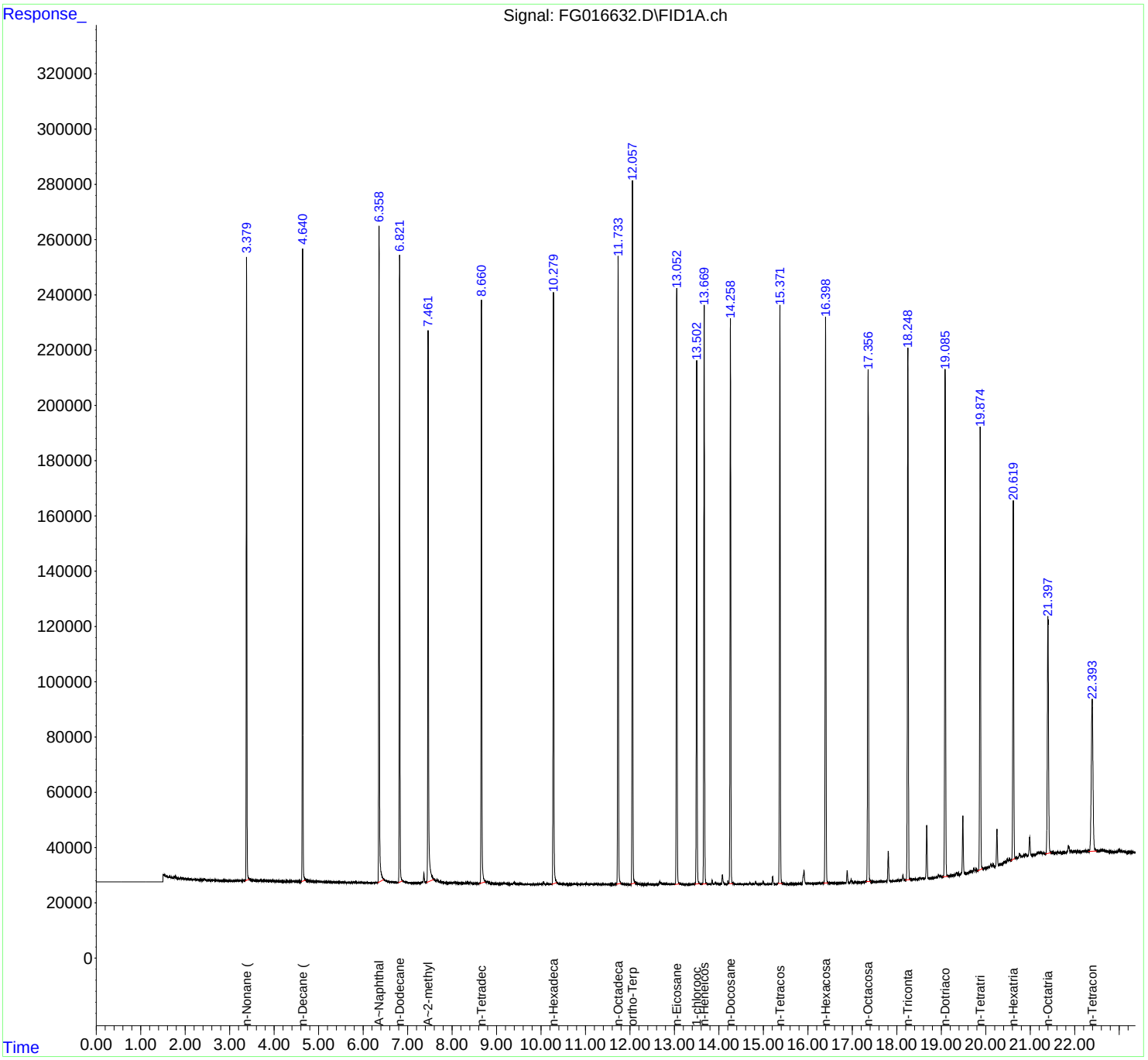
(f)=RT Delta > 1/2 Window (m)=manual int.

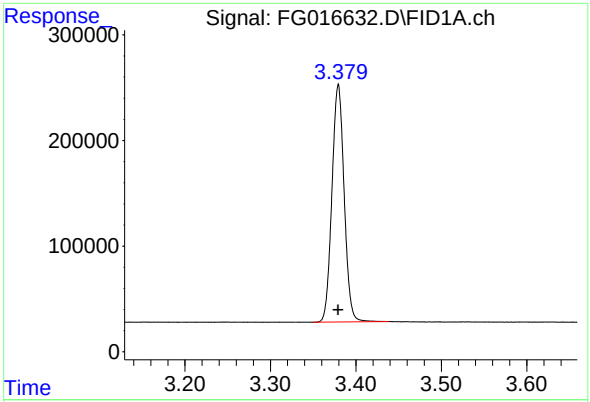
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016632.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 16:28
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 24 16:37:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

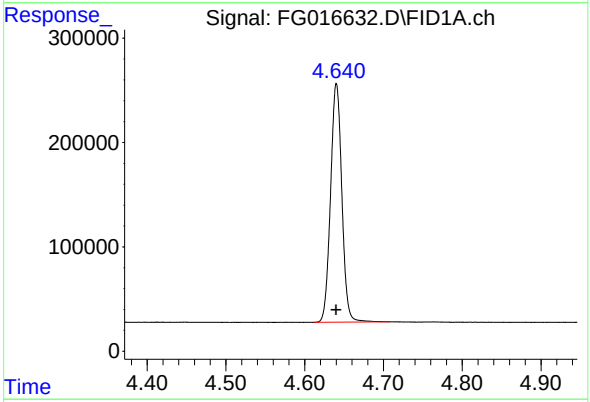




#1 n-Nonane (C9)

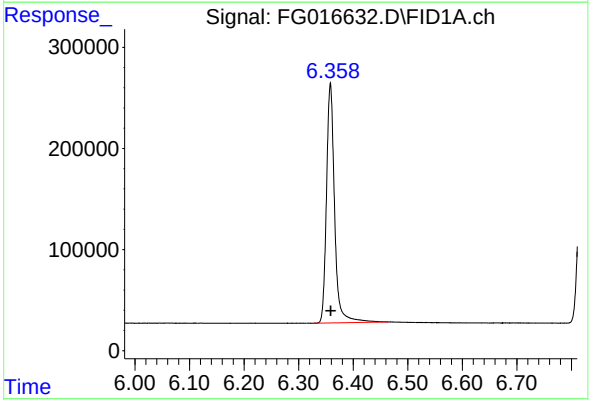
R.T.: 3.380 min
Delta R.T.: 0.000 min
Response: 2232664
Conc: 19.67 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



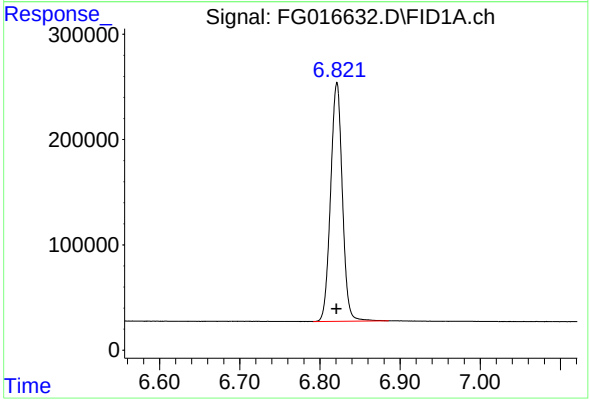
#2 n-Decane (C10)

R.T.: 4.640 min
Delta R.T.: 0.000 min
Response: 2275953
Conc: 19.68 ug/ml



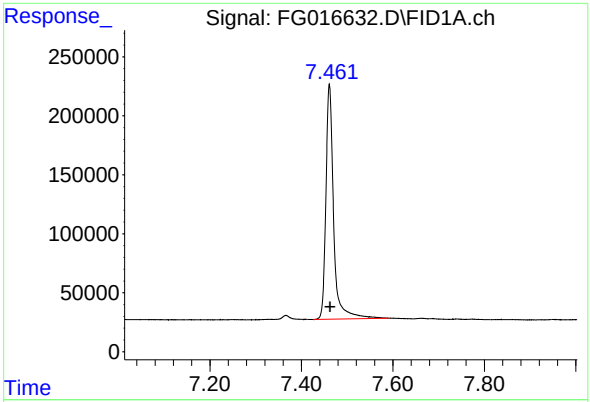
#3 A~Naphthalene (C11.7)

R.T.: 6.358 min
Delta R.T.: 0.000 min
Response: 2447786
Conc: 19.85 ug/ml



#4 n-Dodecane (C12)

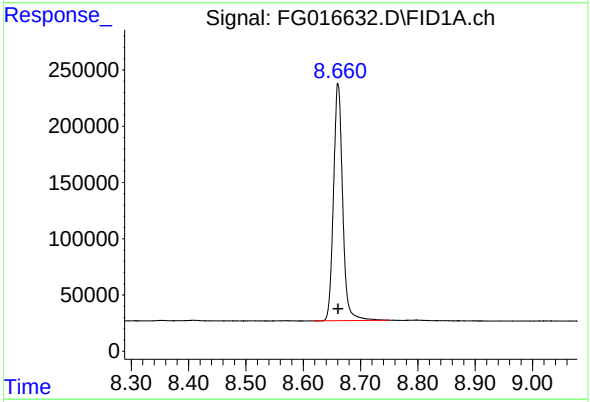
R.T.: 6.821 min
Delta R.T.: 0.000 min
Response: 2310492
Conc: 19.68 ug/ml



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

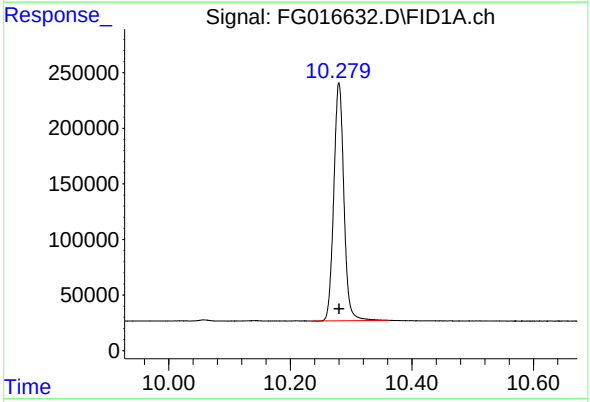
R.T.: 7.461 min
Delta R.T.: -0.001 min
Response: 2342091
Conc: 20.25 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



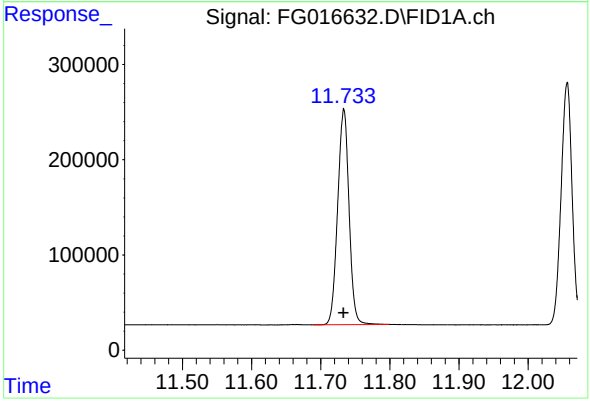
#6 n-Tetradecane (C14)

R.T.: 8.661 min
Delta R.T.: 0.000 min
Response: 2341137
Conc: 19.95 ug/ml



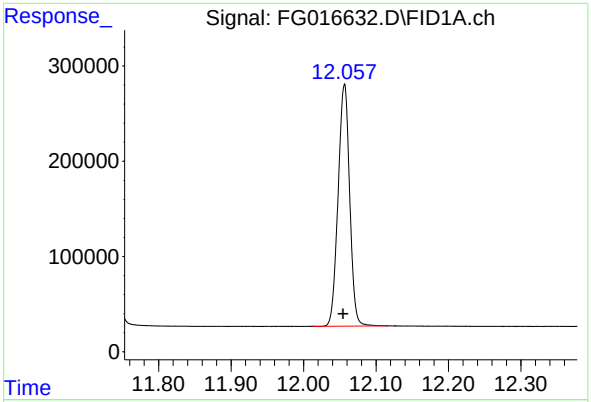
#7 n-Hexadecane (C16)

R.T.: 10.280 min
Delta R.T.: 0.000 min
Response: 2476808
Conc: 19.99 ug/ml



#8 n-Octadecane (C18)

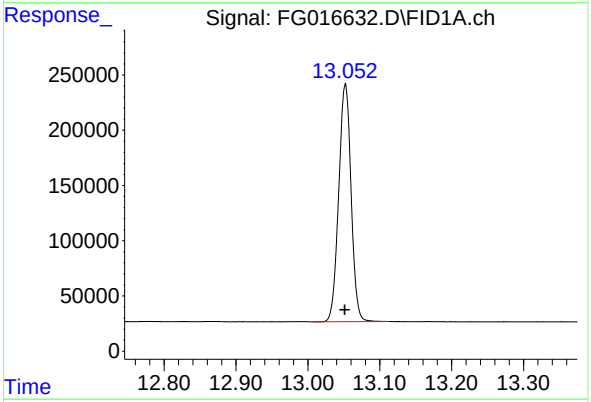
R.T.: 11.734 min
Delta R.T.: 0.000 min
Response: 2588745
Conc: 19.89 ug/ml



#9 ortho-Terphenyl (SURR)

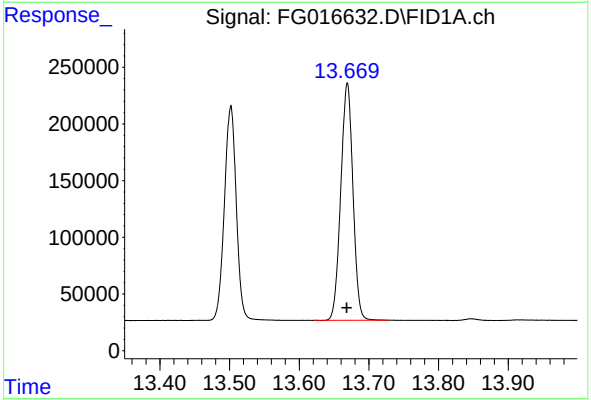
R.T.: 12.057 min
Delta R.T.: 0.002 min
Response: 2817681
Conc: 19.75 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



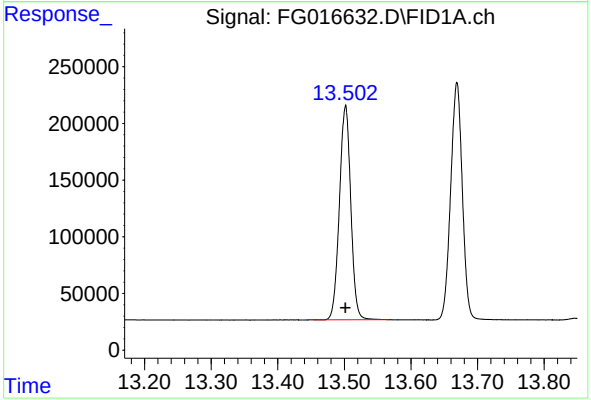
#10 n-Eicosane (C20)

R.T.: 13.052 min
Delta R.T.: 0.000 min
Response: 2566701
Conc: 19.85 ug/ml



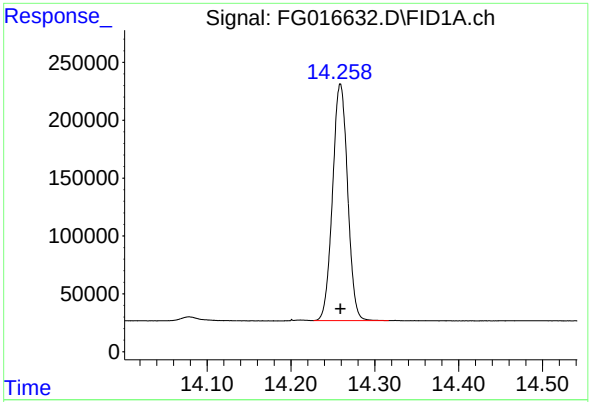
#11 n-Heneicosane (C21)

R.T.: 13.669 min
Delta R.T.: 0.000 min
Response: 2545416
Conc: 19.82 ug/ml



#12 1-chlorooctadecane (SURR)

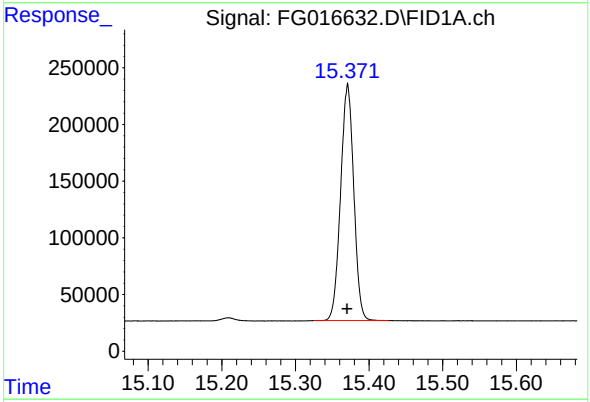
R.T.: 13.502 min
Delta R.T.: 0.000 min
Response: 2240344
Conc: 19.85 ug/ml



#13 n-Docosane (C22)

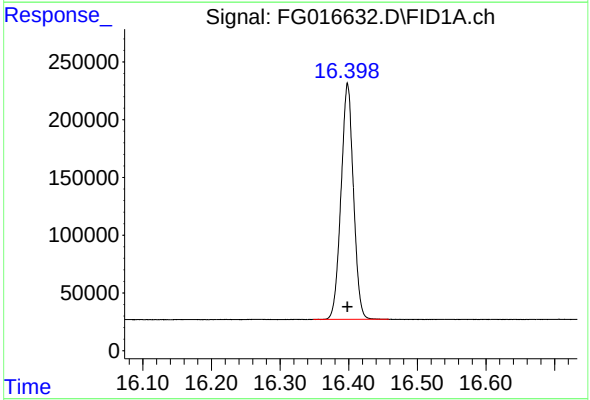
R.T.: 14.259 min
Delta R.T.: 0.000 min
Response: 2554929
Conc: 19.81 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



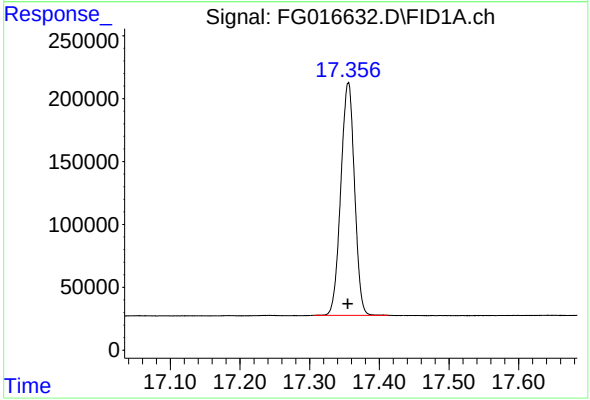
#14 n-Tetracosane (C24)

R.T.: 15.371 min
Delta R.T.: 0.000 min
Response: 2589279
Conc: 19.85 ug/ml



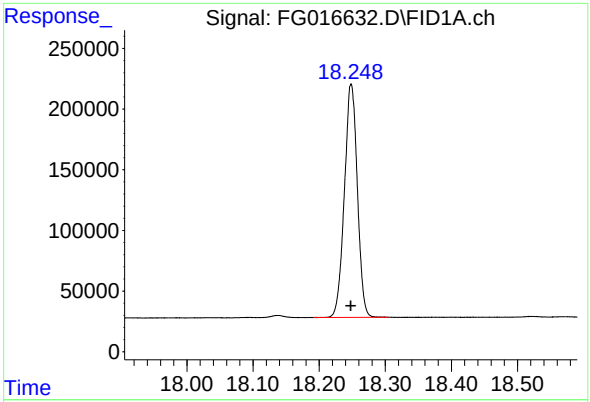
#15 n-Hexacosane (C26)

R.T.: 16.398 min
Delta R.T.: 0.000 min
Response: 2565593
Conc: 19.87 ug/ml



#16 n-Octacosane (C28)

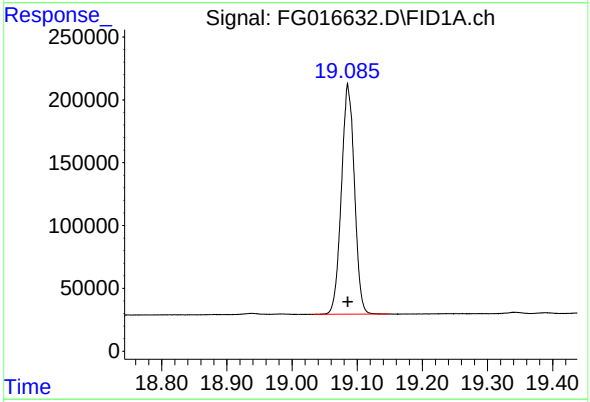
R.T.: 17.356 min
Delta R.T.: 0.000 min
Response: 2535026
Conc: 19.98 ug/ml



#17 n-Tricontane (C30)

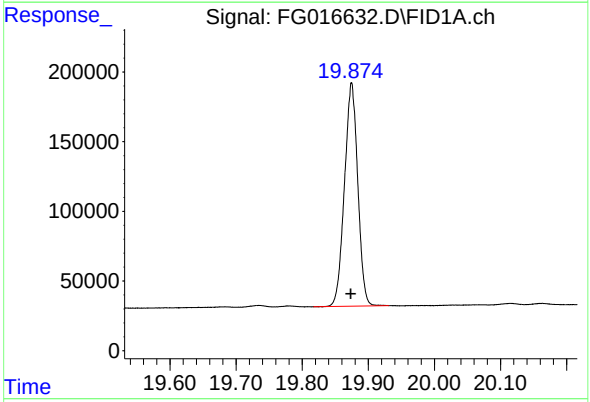
R.T.: 18.248 min
Delta R.T.: 0.000 min
Response: 2616805
Conc: 20.45 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



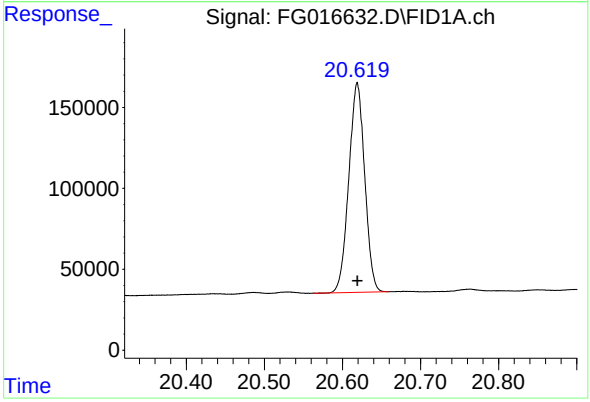
#18 n-Dotriacontane (C32)

R.T.: 19.086 min
Delta R.T.: 0.000 min
Response: 2540356
Conc: 20.74 ug/ml



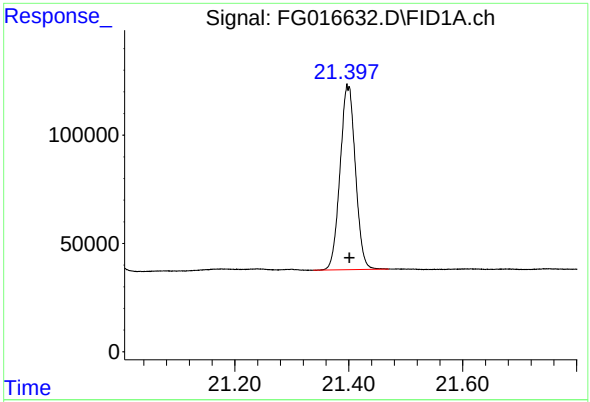
#19 n-Tetratriacontane (C34)

R.T.: 19.875 min
Delta R.T.: 0.001 min
Response: 2237978
Conc: 20.60 ug/ml



#20 n-Hexatriacontane (C36)

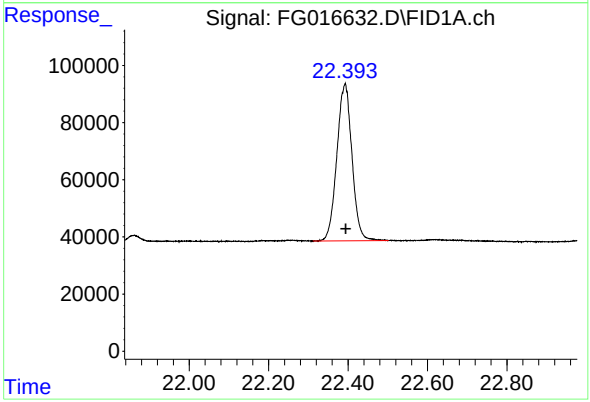
R.T.: 20.619 min
Delta R.T.: 0.000 min
Response: 1831577
Conc: 20.16 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.398 min
Delta R.T.: -0.003 min
Response: 1591995
Conc: 19.55 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.393 min
Delta R.T.: -0.002 min
Response: 1450457
Conc: 18.80 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016632.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 16:28
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.380	3.350	3.438	BB	224891	2232664	79.24%	4.319%
2	4.640	4.611	4.707	BB	228909	2275953	80.77%	4.402%
3	6.358	6.327	6.465	BB	237186	2447786	86.87%	4.735%
4	6.821	6.792	6.886	BB	227212	2310492	82.00%	4.469%
5	7.461	7.426	7.591	BB	199214	2342091	83.12%	4.530%
6	8.661	8.617	8.749	BB	210220	2341137	83.09%	4.528%
7	10.280	10.238	10.362	BB	213906	2476808	87.90%	4.791%
8	11.734	11.689	11.798	BB	226951	2588745	91.88%	5.007%
9	12.057	12.013	12.118	BB	254467	2817681	100.00%	5.450%
10	13.052	13.008	13.113	BB	215867	2566701	91.09%	4.965%
11	13.502	13.453	13.567	BB	188794	2240344	79.51%	4.333%
12	13.669	13.620	13.728	BB	209523	2545416	90.34%	4.923%
13	14.259	14.227	14.317	BB	204530	2554929	90.67%	4.942%
14	15.371	15.324	15.427	BB	208854	2589279	91.89%	5.008%
15	16.398	16.348	16.458	BB	204266	2565593	91.05%	4.962%
16	17.356	17.305	17.413	BB	185179	2535026	89.97%	4.903%
17	18.248	18.191	18.305	BB	192389	2616805	92.87%	5.062%
18	19.086	19.033	19.148	BB	182253	2540356	90.16%	4.914%
19	19.875	19.817	19.931	BB	160319	2237978	79.43%	4.329%
20	20.619	20.563	20.659	BB	129752	1831577	65.00%	3.543%
21	21.398	21.338	21.470	BB	84725	1591995	56.50%	3.079%
22	22.393	22.312	22.502	BB	54879	1450457	51.48%	2.806%

Sum of corrected areas: 51699811

Aliphatic EPH 092425.M Thu Sep 25 04:21:30 2025

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

Continuing Calibration Report for SequenceID : FC092625AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC069853.D**						
Aliphatic C9-C12	8368697.000	60.000	3.300	6.593	139478.283	133523.254	-4.460
Aliphatic C12-C16	6681561.000	40.000	6.594	9.993	167039.025	156673.343	-6.616
Aliphatic C16-C21	11414829.000	60.000	9.994	13.360	190247.150	179548.834	-5.958
Aliphatic C21-C28	15556389.000	80.000	13.361	17.023	194454.863	180941.740	-7.468
Aliphatic C28-C40	17104989.000	120.000	17.024	21.984	142541.575	128677.038	-10.775
Aliphatic EPH	59126465.000	360.000	3.300	21.984	164240.181	152688.452	-7.566

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:	26 Sep 2025 09:09
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069853.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.300	6.593	8368697.000	60.000	ug/ml
Aliphatic C12-C16	6.594	9.993	6681561.000	40.000	ug/ml
Aliphatic C16-C21	9.994	13.360	11414829.000	60.000	ug/ml
Aliphatic C21-C28	13.361	17.023	15556389.000	80.000	ug/ml
Aliphatic C28-C40	17.024	21.984	17104989.000	120.000	ug/ml
Aliphatic EPH	3.300	21.984	59126465.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069853.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 09:09
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 27 06:07:18 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)	11.659	3931750	20.992 ug/ml
Spiked Amount	50.000		Recovery =	41.98%
12)	S 1-chlorooctadecane (S...	13.093	3307664	20.945 ug/ml
Spiked Amount	50.000		Recovery =	41.89%
	Target Compounds			
1)	T n-Nonane (C9)	3.400	2641201	20.603 ug/ml
2)	T n-Decane (C10)	4.471	2782142	20.937 ug/ml
3)	T A~Naphthalene (C11.7)	6.065	3088201	20.803 ug/ml
4)	T n-Dodecane (C12)	6.493	2945354	21.114 ug/ml
5)	T A~2-methylnaphthalene...	7.122	3072542	20.811 ug/ml
6)	T n-Tetradecane (C14)	8.290	3158371	21.294 ug/ml
7)	T n-Hexadecane (C16)	9.893	3523190	21.349 ug/ml
8)	T n-Octadecane (C18)	11.337	3798147	21.312 ug/ml
10)	T n-Eicosane (C20)	12.647	3813334	21.172 ug/ml
11)	T n-Heneicosane (C21)	13.260	3803348	21.093 ug/ml
13)	T n-Docosane (C22)	13.847	3847790	21.180 ug/ml
14)	T n-Tetracosane (C24)	14.950	3922415	21.317 ug/ml
15)	T n-Hexacosane (C26)	15.972	3908811	21.529 ug/ml
16)	T n-Octacosane (C28)	16.923	3877373	21.965 ug/ml
17)	T n-Tricontane (C30)	17.812	3968525	22.673 ug/ml
18)	T n-Dotriacontane (C32)	18.645	3725946	23.030 ug/ml
19)	T n-Tetratriacontane (C34)	19.427	3222922	23.062 ug/ml
20)	T n-Hexatriacontane (C36)	20.168	2481385	21.979 ug/ml
21)	T n-Octatriacontane (C38)	20.927	1991933	20.649 ug/ml
22)	T n-Tetracontane (C40)	21.884	1714278	19.904 ug/ml

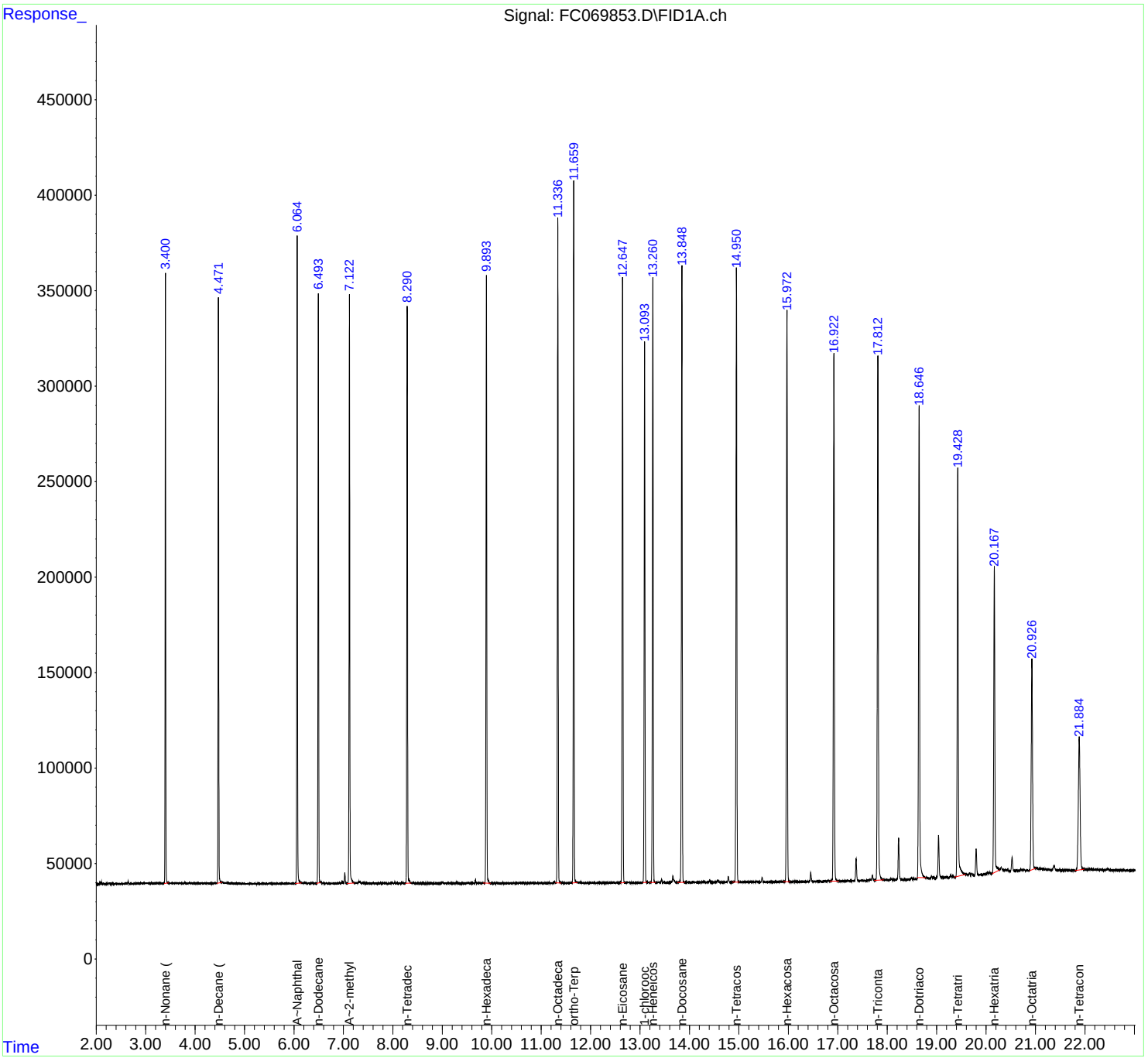
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069853.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 09:09
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 27 06:07:18 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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069853.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 09:09
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	3.400	3.372	3.459	BB	319197	2641201	66.55%	3.642%
2	4.471	4.440	4.540	BB	306385	2782142	70.11%	3.836%
3	6.065	6.025	6.154	BB	340433	3088201	77.82%	4.258%
4	6.493	6.455	6.534	BB	309525	2945354	74.22%	4.061%
5	7.122	7.077	7.222	BB	308657	3072542	77.42%	4.236%
6	8.290	8.255	8.364	BB	301921	3158371	79.59%	4.355%
7	9.893	9.825	9.974	BB	319552	3523190	88.78%	4.858%
8	11.337	11.290	11.400	BB	347158	3798147	95.71%	5.237%
9	11.659	11.624	11.730	BB	366979	3931750	99.07%	5.421%
10	12.647	12.604	12.695	BB	317478	3813334	96.09%	5.258%
11	13.093	13.054	13.145	BB	281963	3307664	83.35%	4.561%
12	13.260	13.199	13.314	BB	317412	3803348	95.84%	5.244%
13	13.847	13.757	13.905	BB	321554	3847790	96.96%	5.305%
14	14.950	14.867	15.012	BB	321968	3922415	98.84%	5.408%
15	15.972	15.900	16.034	BB	297142	3908811	98.50%	5.389%
16	16.923	16.842	17.015	BB	275807	3877373	97.70%	5.346%
17	17.812	17.742	17.925	BB	274674	3968525	100.00%	5.472%
18	18.645	18.610	18.785	BB	247239	3725946	93.89%	5.137%
19	19.427	19.359	19.587	BB	212592	3222922	81.21%	4.444%
20	20.168	20.120	20.275	BV	160570	2481385	62.53%	3.421%
21	20.927	20.880	21.005	BB	110404	1991933	50.19%	2.746%
22	21.884	21.795	21.984	BB	69822	1714278	43.20%	2.364%
					Sum of corrected areas:	72526621		

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Continuing Calibration Report for SequenceID : FC092625AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC069858.D**						
Aliphatic C9-C12	7318913.000	60.000	3.300	6.593	121981.883	133523.254	8.644
Aliphatic C12-C16	5773350.000	40.000	6.594	9.993	144333.750	156673.343	7.876
Aliphatic C16-C21	9454936.000	60.000	9.994	13.360	157582.267	179548.834	12.234
Aliphatic C21-C28	12400776.000	80.000	13.361	17.023	155009.700	180941.740	14.332
Aliphatic C28-C40	13628539.000	120.000	17.024	21.984	113571.158	128677.038	11.739
Aliphatic EPH	48576514.000	360.000	3.300	21.984	134934.761	152688.452	11.627

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Fax : 908 789 8922

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	26 Sep 2025 16:04
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069858.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.300	6.593	7318913.000	60.000	ug/ml
Aliphatic C12-C16	6.594	9.993	5773350.000	40.000	ug/ml
Aliphatic C16-C21	9.994	13.360	9454936.000	60.000	ug/ml
Aliphatic C21-C28	13.361	17.023	12400776.000	80.000	ug/ml
Aliphatic C28-C40	17.024	21.984	13628539.000	120.000	ug/ml
Aliphatic EPH	3.300	21.984	48576514.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069858.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 16:04
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 29 07:56:43 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)	11.658	3351415	17.893 ug/ml
Spiked Amount	50.000		Recovery =	35.79%
12) S	1-chlorooctadecane (S...	13.093	2711205	17.168 ug/ml
Spiked Amount	50.000		Recovery =	34.34%
	Target Compounds			
1) T	n-Nonane (C9)	3.397	2309840	18.018 ug/ml
2) T	n-Decane (C10)	4.470	2431473	18.298 ug/ml
3) T	A~Naphthalene (C11.7)	6.064	2720396	18.326 ug/ml
4) T	n-Dodecane (C12)	6.493	2577600	18.478 ug/ml
5) T	A~2-methylnaphthalene...	7.121	2704654	18.319 ug/ml
6) T	n-Tetradecane (C14)	8.290	2753403	18.564 ug/ml
7) T	n-Hexadecane (C16)	9.893	3019947	18.300 ug/ml
8) T	n-Octadecane (C18)	11.336	3190611	17.903 ug/ml
10) T	n-Eicosane (C20)	12.647	3147341	17.474 ug/ml
11) T	n-Heneicosane (C21)	13.260	3116984	17.286 ug/ml
13) T	n-Docosane (C22)	13.846	3123975	17.195 ug/ml
14) T	n-Tetracosane (C24)	14.951	3143707	17.085 ug/ml
15) T	n-Hexacosane (C26)	15.972	3087344	17.004 ug/ml
16) T	n-Octacosane (C28)	16.922	3045750	17.254 ug/ml
17) T	n-Tricontane (C30)	17.810	3136925	17.922 ug/ml
18) T	n-Dotriacontane (C32)	18.644	2971169	18.365 ug/ml
19) T	n-Tetratriacontane (C34)	19.427	2580273	18.463 ug/ml
20) T	n-Hexatriacontane (C36)	20.167	1981749	17.553 ug/ml
21) T	n-Octatriacontane (C38)	20.929	1587412	16.456 ug/ml
22) T	n-Tetracontane (C40)	21.887	1371011	15.918 ug/ml

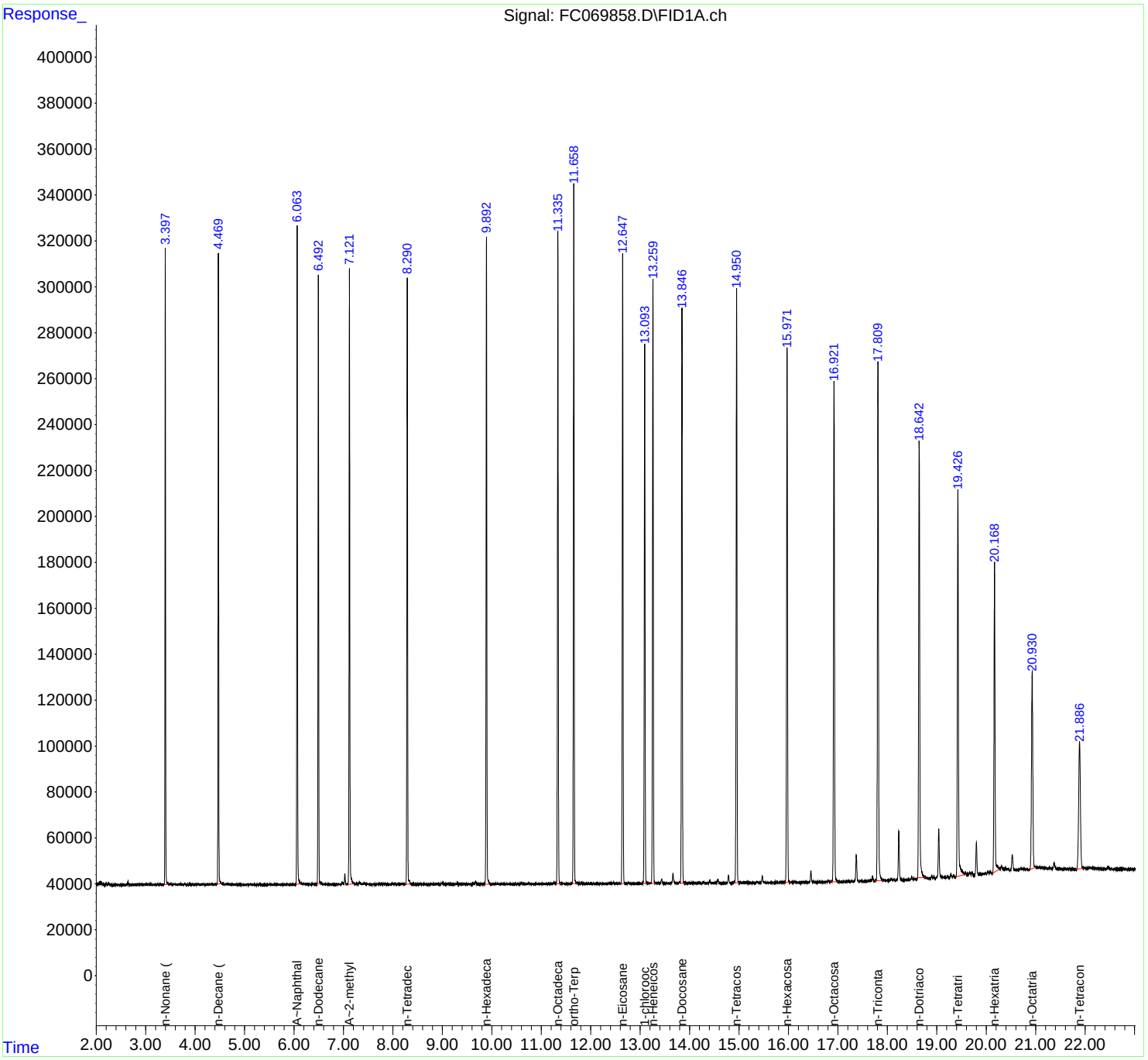
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069858.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 16:04
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 29 07:56:43 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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069858.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 16:04
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	3.397	3.370	3.457	BB	276696	2309840	68.92%	3.846%
2	4.470	4.439	4.534	BB	273619	2431473	72.55%	4.048%
3	6.064	6.034	6.150	BB	286330	2720396	81.17%	4.529%
4	6.493	6.455	6.535	BB	265792	2577600	76.91%	4.291%
5	7.121	7.077	7.214	BB	267818	2704654	80.70%	4.503%
6	8.290	8.245	8.364	BB	264460	2753403	82.16%	4.584%
7	9.893	9.854	9.964	BB	282231	3019947	90.11%	5.028%
8	11.336	11.295	11.405	BB	281666	3190611	95.20%	5.312%
9	11.658	11.620	11.725	BB	305314	3351415	100.00%	5.580%
10	12.647	12.605	12.695	BB	273729	3147341	93.91%	5.240%
11	13.093	13.049	13.129	BB	235461	2711205	80.90%	4.514%
12	13.260	13.220	13.312	BB	263782	3116984	93.01%	5.189%
13	13.846	13.810	13.902	VB	251987	3123975	93.21%	5.201%
14	14.951	14.884	15.007	BB	258845	3143707	93.80%	5.234%
15	15.972	15.932	16.035	BB	232434	3087344	92.12%	5.140%
16	16.922	16.842	16.995	BB	217753	3045750	90.88%	5.071%
17	17.810	17.739	17.915	BB	224357	3136925	93.60%	5.223%
18	18.644	18.610	18.772	BB	187215	2971169	88.65%	4.947%
19	19.427	19.362	19.589	BB	168044	2580273	76.99%	4.296%
20	20.167	20.120	20.275	BB	134355	1981749	59.13%	3.299%
21	20.929	20.880	21.002	BB	85547	1587412	47.37%	2.643%
22	21.887	21.802	21.977	BB	55333	1371011	40.91%	2.283%

Sum of corrected areas: 60064185

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Continuing Calibration Report for SequenceID : FD092625AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049765.D**						
Aromatic C10-C12	4686196.000	40.000	4.389	6.132	117154.900	116056.185	-0.947
Aromatic C12-C16	8384234.000	60.000	6.133	8.761	139737.233	135865.661	-2.850
Aromatic C16-C21	11343302.000	80.000	8.762	13.054	141791.275	135770.533	-4.434
Aromatic C21-C36	22066183.000	180.000	13.055	18.477	122589.906	118321.901	-3.607
Aromatic EPH	46479915.000	360.000	4.389	18.477	129110.875	124871.589	-3.395

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	26 Sep 2025 09:09
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049765.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.389	6.132	4686196.000	40.000	ug/ml
Aromatic C12-C16	6.133	8.761	8384234.000	60.000	ug/ml
Aromatic C16-C21	8.762	13.054	11343302.000	80.000	ug/ml
Aromatic C21-C36	13.055	18.477	22066183.000	180.000	ug/ml
Aromatic EPH	4.389	18.477	46479915.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049765.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 09:09
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: Sep 29 00:20:30 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	2318618	20.617 ug/ml
Spiked Amount	50.000		Recovery =	41.23%
6) S	2-Flurobiphenyl (SURR)	8.562	1672243	20.832 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	41.66%
11) S	ortho-Terphenyl (SURR)	11.610	2989375	21.129 ug/ml
Spiked Amount	50.000		Recovery =	42.26%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.489	2148971	19.943 ug/ml
2) T	Naphthalene (C11.7)	6.032	2537225	20.402 ug/ml
3) T	2-Methylnaphthalene (...	7.087	2688970	20.632 ug/ml
5) T	Acenaphthylene (C15.06)	8.365	2842750	20.504 ug/ml
7) T	Acenaphthene (C15.5)	8.661	2852514	20.577 ug/ml
8) T	Flouorene (C16.55)	9.443	2888328	20.822 ug/ml
9) T	Phenanthrene (C19.36)	10.841	2922353	20.978 ug/ml
10) T	Anthracene (C19.43)	10.916	2689115	20.366 ug/ml
12) T	Fluoranthene (C21.85)	12.656	2872920	21.333 ug/ml
13) T	Pyrene (C20.8)	12.954	2843506	21.376 ug/ml
14) T	Benzo[a]anthracene (C...	14.827	2521711	21.087 ug/ml
15) T	Chrysene (C27.41)	14.869	2569554	21.122 ug/ml
16) T	benzo[b]fluoranthene ...	16.378	2490579	20.778 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.410	2333879	20.713 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.756	2397086	20.427 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.121	2177463	20.015 ug/ml
20) T	Dibenz[a,h]anthracene...	18.162	2365296	20.757 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.377	2337695	20.091 ug/ml

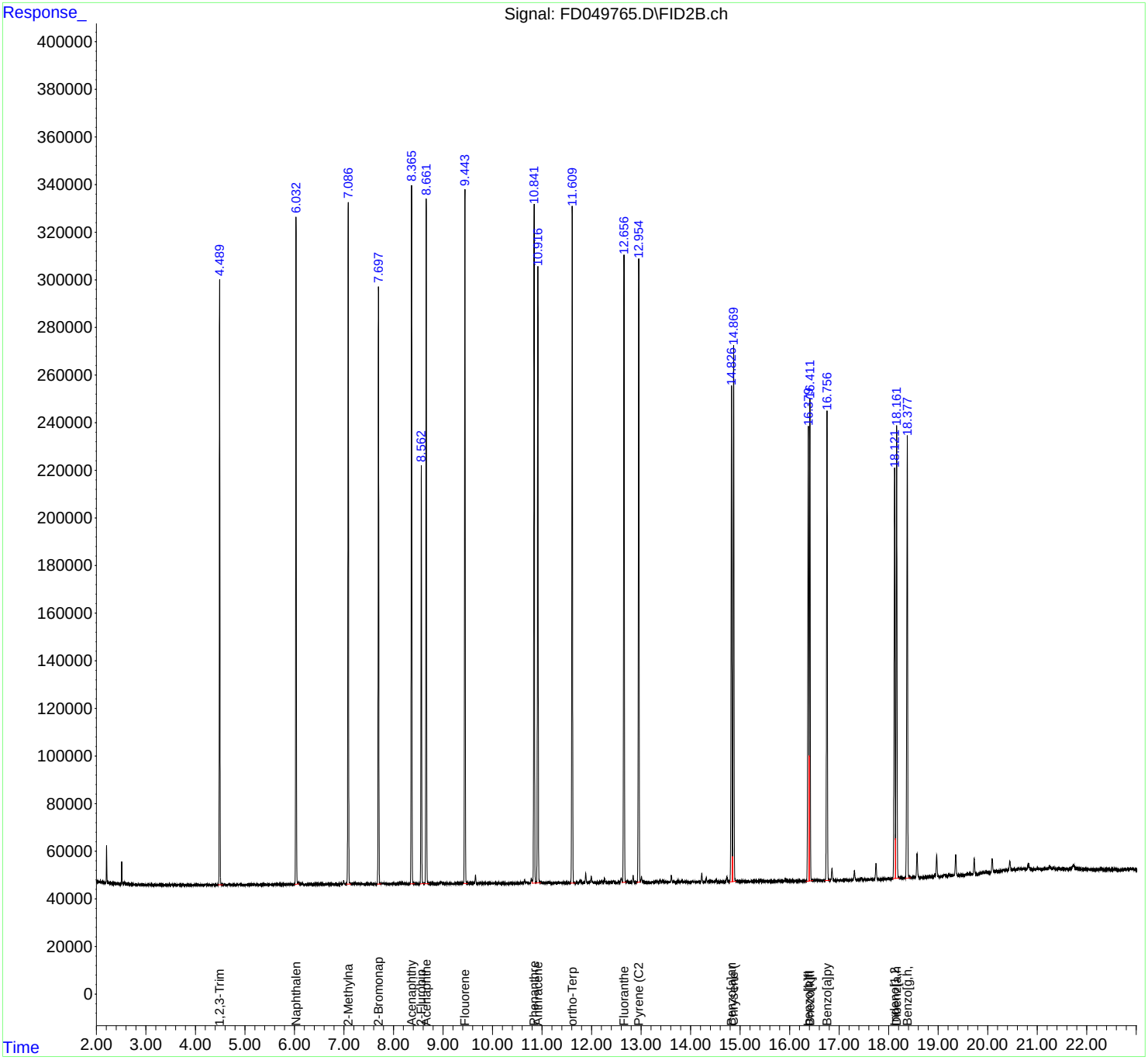
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049765.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 09:09
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: Sep 29 00:20:30 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049765.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 09:09
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	4.489	4.458	4.555	BB	252740	2148971	71.89%	4.020%
2	6.032	6.005	6.095	BB	278866	2537225	84.87%	4.746%
3	7.087	7.045	7.148	BB	287288	2688970	89.95%	5.030%
4	7.697	7.668	7.751	BB	250365	2318618	77.56%	4.337%
5	8.365	8.335	8.428	BB	292896	2842750	95.10%	5.318%
6	8.562	8.531	8.625	BB	175308	1672243	55.94%	3.128%
7	8.661	8.628	8.718	BB	287758	2852514	95.42%	5.336%
8	9.443	9.411	9.501	BB	293411	2888328	96.62%	5.403%
9	10.841	10.799	10.881	VV	285444	2922353	97.76%	5.466%
10	10.916	10.881	10.981	VB	257126	2689115	89.96%	5.030%
11	11.610	11.568	11.671	BB	280113	2989375	100.00%	5.592%
12	12.656	12.622	12.701	VV	266127	2872920	96.10%	5.374%
13	12.954	12.915	12.986	BV	262229	2843506	95.12%	5.319%
14	14.827	14.785	14.847	BV	208415	2521711	84.36%	4.717%
15	14.869	14.847	14.925	VB	224080	2569554	85.96%	4.806%
16	16.378	16.328	16.394	BV	190952	2490579	83.31%	4.659%
17	16.411	16.394	16.475	VB	203878	2333879	78.07%	4.366%
18	16.756	16.711	16.821	BB	198013	2397086	80.19%	4.484%
19	18.121	18.081	18.139	BV	172912	2177463	72.84%	4.073%
20	18.162	18.139	18.228	VB	189503	2365296	79.12%	4.424%
21	18.377	18.335	18.448	BB	188172	2337695	78.20%	4.373%

Sum of corrected areas: 53460148

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

Continuing Calibration Report for SequenceID : FD092625AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049771.D**						
Aromatic C10-C12	4880274.000	40.000	4.389	6.132	122006.850	116056.185	-5.127
Aromatic C12-C16	8569712.000	60.000	6.133	8.761	142828.533	135865.661	-5.125
Aromatic C16-C21	11430190.000	80.000	8.762	13.054	142877.375	135770.533	-5.234
Aromatic C21-C36	22186612.000	180.000	13.055	18.477	123258.956	118321.901	-4.173
Aromatic EPH	47066788.000	360.000	4.389	18.477	130741.078	124871.589	-4.700

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:	26 Sep 2025 13:39
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049771.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.389	6.132	4880274.000	40.000	ug/ml
Aromatic C12-C16	6.133	8.761	8569712.000	60.000	ug/ml
Aromatic C16-C21	8.762	13.054	11430190.000	80.000	ug/ml
Aromatic C21-C36	13.055	18.477	22186612.000	180.000	ug/ml
Aromatic EPH	4.389	18.477	47066788.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049771.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 13:39
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: Sep 29 00:22:53 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	2386131	21.217 ug/ml
Spiked Amount	50.000		Recovery =	42.43%
6) S	2-Flurobiphenyl (SURR)	8.562	1704033	21.228 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	42.46%
11) S	ortho-Terphenyl (SURR)	11.610	3004858	21.239 ug/ml
Spiked Amount	50.000		Recovery =	42.48%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.488	2246601	20.850 ug/ml
2) T	Naphthalene (C11.7)	6.032	2633673	21.178 ug/ml
3) T	2-Methylnaphthalene (...	7.086	2766872	21.229 ug/ml
5) T	Acenaphthylene (C15.06)	8.366	2897002	20.896 ug/ml
7) T	Acenaphthene (C15.5)	8.661	2905838	20.962 ug/ml
8) T	Flouorene (C16.55)	9.443	2923206	21.074 ug/ml
9) T	Phenanthrene (C19.36)	10.842	2948962	21.169 ug/ml
10) T	Anthracene (C19.43)	10.917	2703827	20.477 ug/ml
12) T	Fluoranthene (C21.85)	12.656	2885145	21.424 ug/ml
13) T	Pyrene (C20.8)	12.955	2854195	21.456 ug/ml
14) T	Benzo[a]anthracene (C...	14.827	2531624	21.170 ug/ml
15) T	Chrysene (C27.41)	14.870	2583200	21.234 ug/ml
16) T	benzo[b]fluoranthene ...	16.379	2482979	20.714 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.411	2339033	20.759 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.758	2396047	20.419 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.122	2204824	20.267 ug/ml
20) T	Dibenz[a,h]anthracene...	18.163	2426549	21.295 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.378	2337211	20.087 ug/ml

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

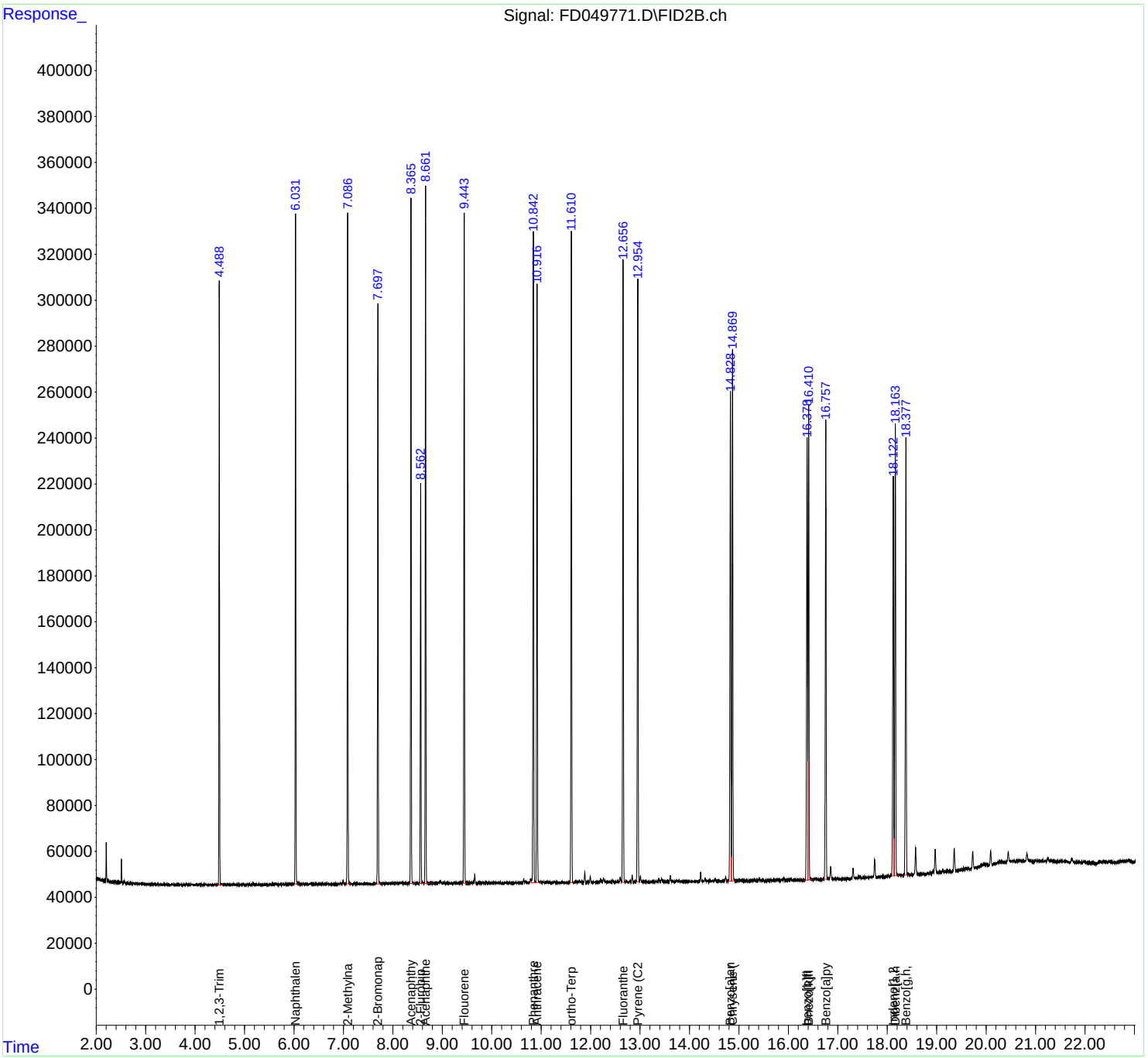
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049771.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 13:39
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: Sep 29 00:22:53 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049771.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 13:39
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	4.488	4.444	4.561	BB	262397	2246601	74.77%	4.148%
2	6.032	6.001	6.094	BB	290921	2633673	87.65%	4.863%
3	7.086	7.044	7.151	BB	292598	2766872	92.08%	5.109%
4	7.697	7.644	7.768	BB	253715	2386131	79.41%	4.406%
5	8.366	8.334	8.428	BB	296376	2897002	96.41%	5.349%
6	8.562	8.531	8.624	BB	174258	1704033	56.71%	3.146%
7	8.661	8.628	8.724	BB	302970	2905838	96.70%	5.365%
8	9.443	9.398	9.498	BB	293216	2923206	97.28%	5.397%
9	10.842	10.798	10.884	VV	281714	2948962	98.14%	5.445%
10	10.917	10.884	10.978	VB	259742	2703827	89.98%	4.992%
11	11.610	11.574	11.661	BB	283637	3004858	100.00%	5.548%
12	12.656	12.624	12.691	VV	271062	2885145	96.02%	5.327%
13	12.955	12.918	12.987	BV	261667	2854195	94.99%	5.270%
14	14.827	14.781	14.847	BV	213358	2531624	84.25%	4.674%
15	14.870	14.847	14.938	VB	232715	2583200	85.97%	4.769%
16	16.379	16.314	16.395	BV	191561	2482979	82.63%	4.584%
17	16.411	16.395	16.471	VB	208302	2339033	77.84%	4.319%
18	16.758	16.708	16.793	BB	200642	2396047	79.74%	4.424%
19	18.122	18.081	18.140	BV	173261	2204824	73.38%	4.071%
20	18.163	18.140	18.228	VB	197913	2426549	80.75%	4.480%
21	18.378	18.331	18.411	BV	190931	2337211	77.78%	4.315%
					Sum of corrected areas:	54161810		

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Continuing Calibration Report for SequenceID : FD100125AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049783.D**						
Aromatic C12-C16	8582976.000	60.000	6.132	8.760	143049.600	135865.661	-5.288
Aromatic C10-C12	4896792.000	40.000	4.388	6.131	122419.800	116056.185	-5.483
Aromatic C16-C21	11236332.000	80.000	8.761	13.050	140454.150	135770.533	-3.450
Aromatic C21-C36	21941719.000	180.000	13.051	18.471	121898.439	118321.901	-3.023
Aromatic EPH	46657819.000	360.000	4.388	18.471	129605.053	124871.589	-3.791

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	01 Oct 2025 09:40
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049783.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.388	6.131	4896792.000	40.000	ug/ml
Aromatic C12-C16	6.132	8.760	8582976.000	60.000	ug/ml
Aromatic C16-C21	8.761	13.050	11236332.000	80.000	ug/ml
Aromatic C21-C36	13.051	18.471	21941719.000	180.000	ug/ml
Aromatic EPH	4.388	18.471	46657819.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049783.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 09:40
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 02 10:15:24 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	2375494	21.122 ug/ml
Spiked Amount	50.000		Recovery =	42.24%
6) S	2-Flurobiphenyl (SURR)	8.560	1698219	21.156 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	42.31%
11) S	ortho-Terphenyl (SURR)	11.607	3000449	21.207 ug/ml
Spiked Amount	50.000		Recovery =	42.41%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.488	2254581	20.924 ug/ml
2) T	Naphthalene (C11.7)	6.031	2642211	21.247 ug/ml
3) T	2-Methylnaphthalene (...	7.085	2752121	21.116 ug/ml
5) T	Acenaphthylene (C15.06)	8.364	2916875	21.039 ug/ml
7) T	Acenaphthene (C15.5)	8.660	2913980	21.021 ug/ml
8) T	Flouorene (C16.55)	9.441	2921379	21.060 ug/ml
9) T	Phenanthrene (C19.36)	10.838	2898872	20.810 ug/ml
10) T	Anthracene (C19.43)	10.913	2586861	19.591 ug/ml
12) T	Fluoranthene (C21.85)	12.653	2860953	21.244 ug/ml
13) T	Pyrene (C20.8)	12.950	2829220	21.268 ug/ml
14) T	Benzo[a]anthracene (C...	14.822	2470231	20.657 ug/ml
15) T	Chrysene (C27.41)	14.865	2545429	20.924 ug/ml
16) T	benzo[b]fluoranthene ...	16.374	2467708	20.587 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.406	2330342	20.682 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.751	2376610	20.253 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.116	2155227	19.811 ug/ml
20) T	Dibenz[a,h]anthracene...	18.157	2408887	21.140 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.371	2326332	19.993 ug/ml

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

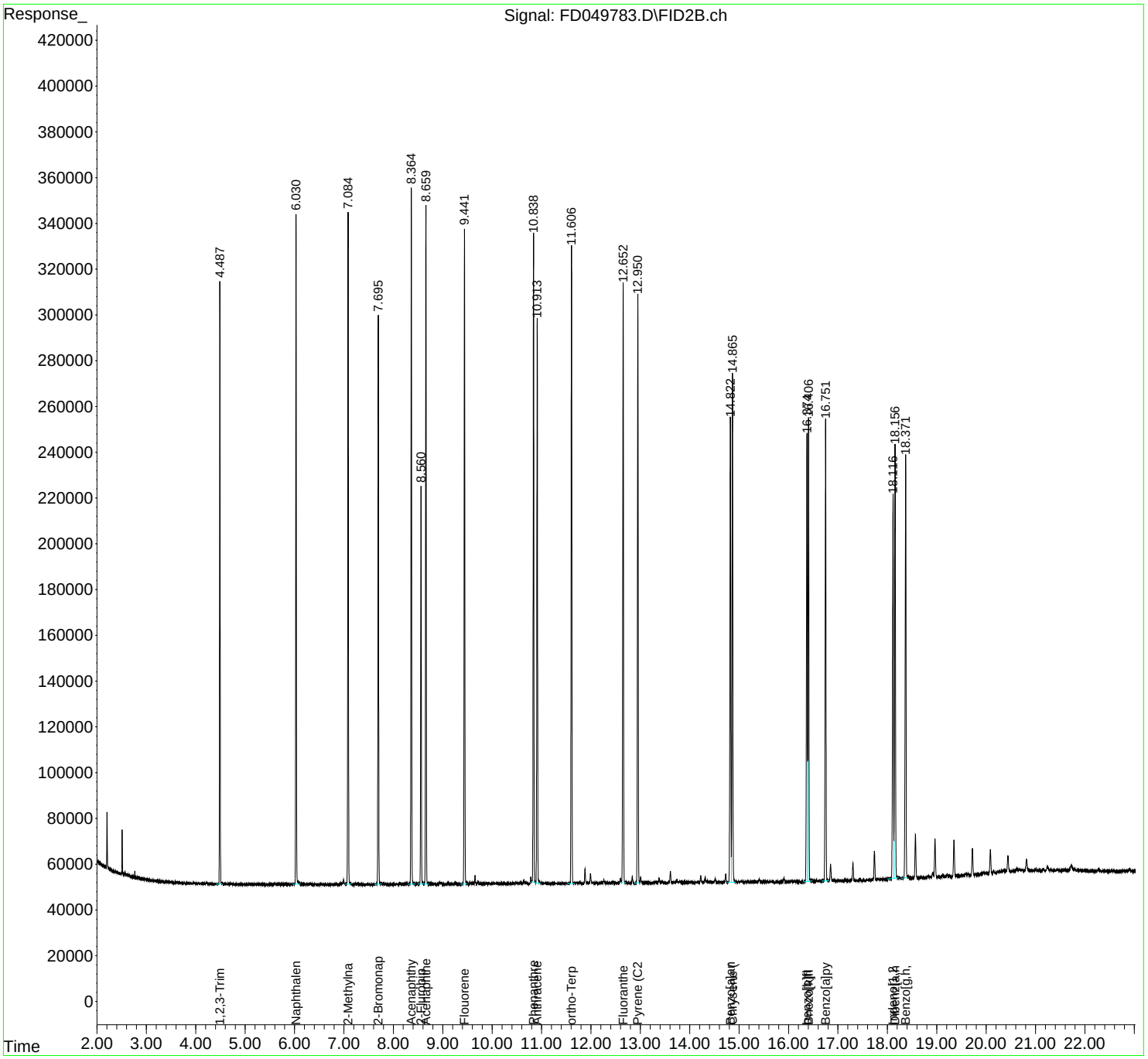
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049783.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 09:40
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 02 10:15:24 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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049783.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 09:40
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 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	4.530	BV	262454	2254581	75.14%	4.196%
2	6.031	5.965	6.115	BB	291514	2642211	88.06%	4.917%
3	7.085	7.025	7.145	BB	292953	2752121	91.72%	5.122%
4	7.695	7.621	7.758	BB	246815	2375494	79.17%	4.421%
5	8.364	8.301	8.445	BB	305609	2916875	97.21%	5.429%
6	8.560	8.495	8.625	BB	173866	1698219	56.60%	3.161%
7	8.660	8.628	8.718	BB	296696	2913980	97.12%	5.423%
8	9.441	9.361	9.498	BB	287277	2921379	97.36%	5.437%
9	10.838	10.801	10.885	BV	281539	2898872	96.61%	5.395%
10	10.913	10.885	10.981	PB	247322	2586861	86.22%	4.814%
11	11.607	11.531	11.668	BB	279156	3000449	100.00%	5.584%
12	12.653	12.618	12.698	VB	260321	2860953	95.35%	5.324%
13	12.950	12.878	12.984	BV	257417	2829220	94.29%	5.265%
14	14.822	14.765	14.843	BV	200968	2470231	82.33%	4.597%
15	14.865	14.843	14.928	VB	223011	2545429	84.83%	4.737%
16	16.374	16.298	16.389	BV	196840	2467708	82.24%	4.593%
17	16.406	16.389	16.475	VB	201794	2330342	77.67%	4.337%
18	16.751	16.675	16.818	BB	201919	2376610	79.21%	4.423%
19	18.116	18.008	18.134	BV	167552	2155227	71.83%	4.011%
20	18.157	18.134	18.218	VB	189257	2408887	80.28%	4.483%
21	18.371	18.285	18.405	BV	184485	2326332	77.53%	4.330%

Sum of corrected areas: 53731981

Aromatic EPH 090425.M Thu Oct 02 10:19:52 2025

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Continuing Calibration Report for SequenceID : FD100125AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049788.D**						
Aromatic C12-C16	8674705.000	60.000	6.132	8.760	144578.417	135865.661	-6.413
Aromatic C10-C12	4962988.000	40.000	4.388	6.131	124074.700	116056.185	-6.909
Aromatic C16-C21	11282024.000	80.000	8.761	13.050	141025.300	135770.533	-3.870
Aromatic C21-C36	22104953.000	180.000	13.051	18.471	122805.294	118321.901	-3.789
Aromatic EPH	47024670.000	360.000	4.388	18.471	130624.083	124871.589	-4.607

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	01 Oct 2025 17:54
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049788.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.388	6.131	4962988.000	40.000	ug/ml
Aromatic C12-C16	6.132	8.760	8674705.000	60.000	ug/ml
Aromatic C16-C21	8.761	13.050	11282024.000	80.000	ug/ml
Aromatic C21-C36	13.051	18.471	22104953.000	180.000	ug/ml
Aromatic EPH	4.388	18.471	47024670.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049788.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 17:54
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 02 10:17:13 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	2398303	21.325 ug/ml
Spiked Amount	50.000		Recovery =	42.65%
6) S	2-Flurobiphenyl (SURR)	8.560	1714721	21.362 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	42.72%
11) S	ortho-Terphenyl (SURR)	11.606	3007878	21.260 ug/ml
Spiked Amount	50.000		Recovery =	42.52%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.487	2298452	21.331 ug/ml
2) T	Naphthalene (C11.7)	6.030	2664536	21.426 ug/ml
3) T	2-Methylnaphthalene (...	7.084	2796996	21.460 ug/ml
5) T	Acenaphthylene (C15.06)	8.363	2938048	21.192 ug/ml
7) T	Acenaphthene (C15.5)	8.659	2939661	21.206 ug/ml
8) T	Flouorene (C16.55)	9.441	2942831	21.215 ug/ml
9) T	Phenanthrene (C19.36)	10.838	2932132	21.049 ug/ml
10) T	Anthracene (C19.43)	10.913	2585175	19.579 ug/ml
12) T	Fluoranthene (C21.85)	12.652	2854909	21.199 ug/ml
13) T	Pyrene (C20.8)	12.950	2821886	21.213 ug/ml
14) T	Benzo[a]anthracene (C...	14.822	2479767	20.736 ug/ml
15) T	Chrysene (C27.41)	14.865	2557659	21.024 ug/ml
16) T	benzo[b]fluoranthene ...	16.373	2468734	20.595 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.406	2334251	20.717 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.751	2374794	20.237 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.115	2198563	20.209 ug/ml
20) T	Dibenz[a,h]anthracene...	18.157	2500361	21.943 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.371	2335915	20.075 ug/ml

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

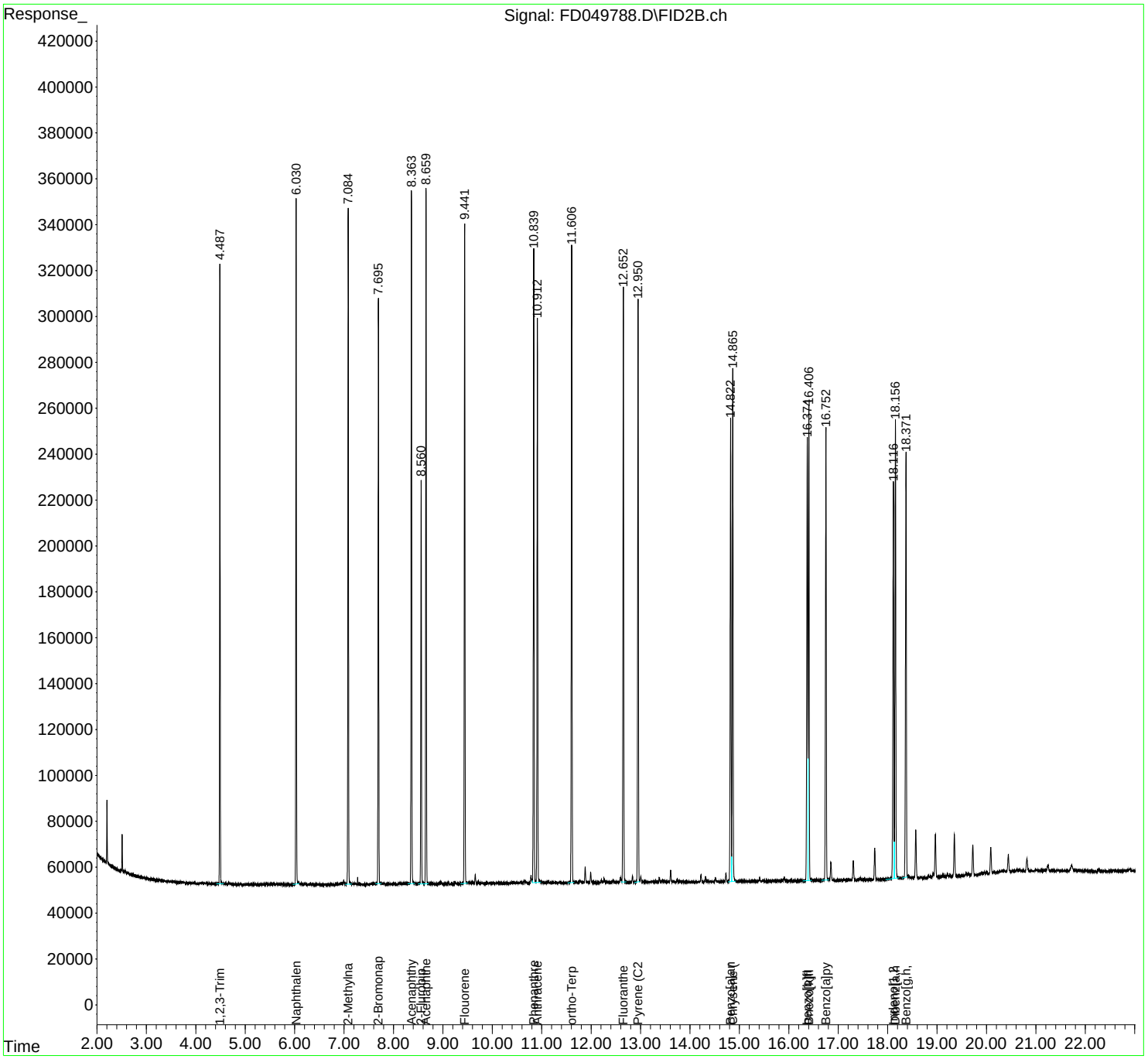
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049788.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 17:54
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 02 10:17:13 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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049788.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 17:54
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	4.487	4.421	4.561	BB	269485	2298452	76.41%	4.245%
2	6.030	5.968	6.094	BB	296413	2664536	88.59%	4.921%
3	7.084	7.028	7.154	BB	294586	2796996	92.99%	5.166%
4	7.695	7.634	7.754	BB	254123	2398303	79.73%	4.429%
5	8.363	8.291	8.434	BB	301525	2938048	97.68%	5.426%
6	8.560	8.501	8.628	BB	175728	1714721	57.01%	3.167%
7	8.659	8.628	8.711	BB	299950	2939661	97.73%	5.429%
8	9.441	9.361	9.504	BB	289082	2942831	97.84%	5.435%
9	10.838	10.811	10.880	VV	276052	2932132	97.48%	5.415%
10	10.913	10.880	10.981	VB	245452	2585175	85.95%	4.774%
11	11.606	11.521	11.658	BB	277706	3007878	100.00%	5.555%
12	12.652	12.618	12.708	VB	258790	2854909	94.91%	5.273%
13	12.950	12.874	12.983	BV	255345	2821886	93.82%	5.212%
14	14.822	14.768	14.842	BV	202207	2479767	82.44%	4.580%
15	14.865	14.842	14.928	VB	222206	2557659	85.03%	4.724%
16	16.373	16.284	16.389	BV	194264	2468734	82.08%	4.559%
17	16.406	16.389	16.461	VB	209602	2334251	77.60%	4.311%
18	16.751	16.661	16.804	BB	196256	2374794	78.95%	4.386%
19	18.115	17.964	18.134	BV	169587	2198563	73.09%	4.060%
20	18.157	18.134	18.228	VB	200635	2500361	83.13%	4.618%
21	18.371	18.288	18.401	BV	184265	2335915	77.66%	4.314%
			Sum of corrected areas:			54145573		

Aromatic EPH 090425.M Thu Oct 02 10:25:57 2025

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FF092525AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF016451.D**						
Aromatic C10-C12	4713656.000	40.000	4.521	6.398	117841.400	143322.298	17.779
Aromatic C12-C16	7290904.000	60.000	6.399	9.102	121515.067	145185.730	16.304
Aromatic C16-C21	9645534.000	80.000	9.103	13.422	120569.175	144173.003	16.372
Aromatic C21-C36	19957430.000	180.000	13.423	18.876	110874.611	130834.072	15.256
Aromatic EPH	41607524.000	360.000	4.521	18.876	115576.456	137577.803	15.992

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	25 Sep 2025 14:49
Client Sample ID:		Operator:	YP\AJ
Data file:	FF016451.D	Misc:	
Instrument:	FID_F	ALS Vial:	76
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.521	6.398	4713656.000	40.000	ug/ml
Aromatic C12-C16	6.399	9.102	7290904.000	60.000	ug/ml
Aromatic C16-C21	9.103	13.422	9645534.000	80.000	ug/ml
Aromatic C21-C36	13.423	18.876	19957430.000	180.000	ug/ml
Aromatic EPH	4.521	18.876	41607524.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016451.D
Signal(s) : FID2B.ch
Acq On : 25 Sep 2025 14:49
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 25 16:40:43 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	2079866	16.603 ug/ml
Spiked Amount	50.000		Recovery =	33.21%
6) S	2-Flurobiphenyl (SURR)	8.903	1420790	16.846 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	33.69%
11) S	ortho-Terphenyl (SURR)	11.970	2545818	16.700 ug/ml
Spiked Amount	50.000		Recovery =	33.40%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.621	2319850	16.457 ug/ml
2) T	Naphthalene (C11.7)	6.298	2393806	16.432 ug/ml
3) T	2-Methylnaphthalene (...	7.398	2445828	16.613 ug/ml
5) T	Acenaphthylene (C15.06)	8.703	2422407	16.716 ug/ml
7) T	Acenaphthene (C15.5)	9.002	2422669	16.892 ug/ml
8) T	Flouorene (C16.55)	9.792	2436779	16.868 ug/ml
9) T	Phenanthrene (C19.36)	11.200	2439607	16.726 ug/ml
10) T	Anthracene (C19.43)	11.275	2380589	16.639 ug/ml
12) T	Fluoranthene (C21.85)	13.023	2467768	16.897 ug/ml
13) T	Pyrene (C20.8)	13.322	2388559	16.668 ug/ml
14) T	Benzo[a]anthracene (C...	15.206	2291568	16.835 ug/ml
15) T	Chrysene (C27.41)	15.248	2416262	16.939 ug/ml
16) T	benzo[b]fluoranthene ...	16.766	2234539	17.006 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.798	2190475	17.403 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.146	2191487	17.163 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.522	1899333	16.655 ug/ml
20) T	Dibenz[a,h]anthracene...	18.561	2200959	16.859 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.776	2065039	16.770 ug/ml

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

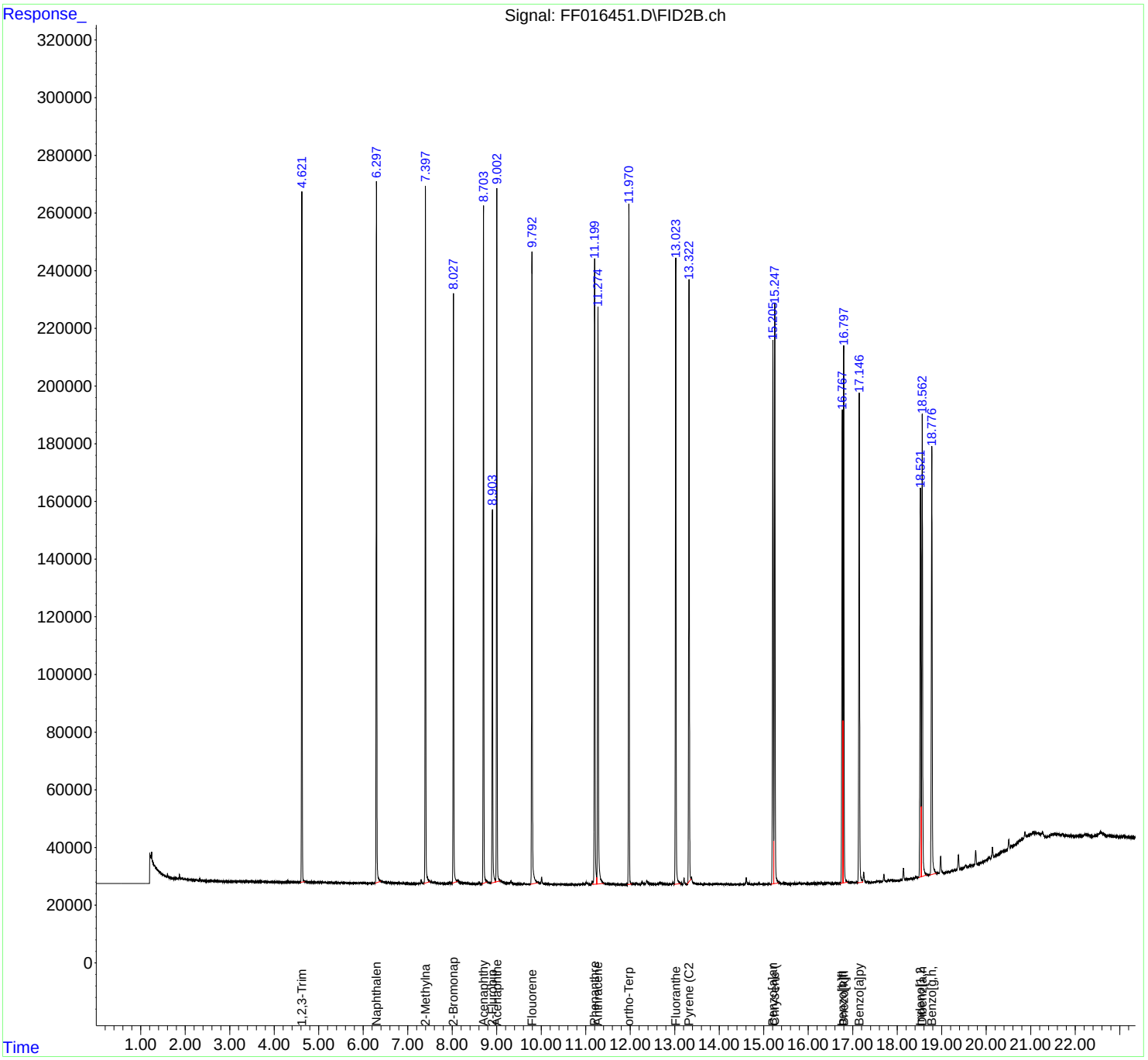
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016451.D
Signal(s) : FID2B.ch
Acq On : 25 Sep 2025 14:49
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 25 16:40:43 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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016451.D
Signal(s) : FID2B.ch
Acq On : 25 Sep 2025 14:49
Sample : 20 PPM AROMATIC HC STD
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	4.621	4.589	4.684	BB	239140	2319850	91.12%	4.868%
2	6.298	6.264	6.396	BB	242922	2393806	94.03%	5.023%
3	7.398	7.361	7.504	BB	241917	2445828	96.07%	5.132%
4	8.027	7.997	8.117	BB	204568	2079866	81.70%	4.365%
5	8.703	8.667	8.789	BB	235346	2422407	95.15%	5.083%
6	8.903	8.869	8.974	BV	128971	1420790	55.81%	2.981%
7	9.002	8.974	9.086	VB	240488	2422669	95.16%	5.084%
8	9.792	9.751	9.927	BB	219230	2436779	95.72%	5.113%
9	11.200	11.159	11.247	VV	216234	2439607	95.83%	5.119%
10	11.275	11.247	11.411	VB	200097	2380589	93.51%	4.996%
11	11.971	11.932	12.034	BB	236004	2545818	100.00%	5.342%
12	13.023	12.987	13.129	BB	217828	2467768	96.93%	5.179%
13	13.322	13.276	13.364	BV	209084	2388559	93.82%	5.012%
14	15.206	15.157	15.226	BV	188612	2291568	90.01%	4.809%
15	15.248	15.226	15.342	VB	201045	2416262	94.91%	5.070%
16	16.766	16.709	16.781	BV	164409	2234539	87.77%	4.689%
17	16.798	16.781	16.881	VB	186600	2190475	86.04%	4.597%
18	17.146	17.102	17.224	BV	169661	2191487	86.08%	4.599%
19	18.522	18.481	18.540	BV	134333	1899333	74.61%	3.986%
20	18.561	18.540	18.664	VB	159839	2200959	86.45%	4.619%
21	18.776	18.731	18.882	BB	147768	2065039	81.11%	4.333%

Sum of corrected areas: 47653997

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Continuing Calibration Report for SequenceID : FF092525AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF016462.D**						
Aromatic C10-C12	4862477.000	40.000	4.521	6.398	121561.925	143322.298	15.183
Aromatic C12-C16	7309251.000	60.000	6.399	9.102	121820.850	145185.730	16.093
Aromatic C16-C21	9311721.000	80.000	9.103	13.422	116396.513	144173.003	19.266
Aromatic C21-C36	19005003.000	180.000	13.423	18.876	105583.350	130834.072	19.300
Aromatic EPH	40488452.000	360.000	4.521	18.876	112467.922	137577.803	18.251

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	26 Sep 2025 08:42
Client Sample ID:		Operator:	YP\AJ
Data file:	FF016462.D	Misc:	
Instrument:	FID_F	ALS Vial:	76
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.521	6.398	4862477.000	40.000	ug/ml
Aromatic C12-C16	6.399	9.102	7309251.000	60.000	ug/ml
Aromatic C16-C21	9.103	13.422	9311721.000	80.000	ug/ml
Aromatic C21-C36	13.423	18.876	19005003.000	180.000	ug/ml
Aromatic EPH	4.521	18.876	40488452.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016462.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 08:42
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 26 23:12:42 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	2096739	16.738 ug/ml
Spiked Amount	50.000		Recovery =	33.48%
6) S	2-Flurobiphenyl (SURR)	8.906	1407380	16.687 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	33.37%
11) S	ortho-Terphenyl (SURR)	11.973	2476630	16.246 ug/ml
Spiked Amount	50.000		Recovery =	32.49%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.621	2402699	17.045 ug/ml
2) T	Naphthalene (C11.7)	6.298	2459778	16.885 ug/ml
3) T	2-Methylnaphthalene (...	7.399	2484705	16.877 ug/ml
5) T	Acenaphthylene (C15.06)	8.706	2404945	16.595 ug/ml
7) T	Acenaphthene (C15.5)	9.006	2419601	16.871 ug/ml
8) T	Flouorene (C16.55)	9.795	2398495	16.603 ug/ml
9) T	Phenanthrene (C19.36)	11.204	2363581	16.205 ug/ml
10) T	Anthracene (C19.43)	11.279	2309289	16.141 ug/ml
12) T	Fluoranthene (C21.85)	13.029	2313970	15.844 ug/ml
13) T	Pyrene (C20.8)	13.328	2240356	15.634 ug/ml
14) T	Benzo[a]anthracene (C...	15.213	2098704	15.418 ug/ml
15) T	Chrysene (C27.41)	15.255	2209561	15.490 ug/ml
16) T	benzo[b]fluoranthene ...	16.775	2095600	15.948 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.807	2036001	16.175 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.156	2082679	16.311 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.532	1913768	16.782 ug/ml
20) T	Dibenz[a,h]anthracene...	18.571	2185929	16.744 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.788	2068791	16.800 ug/ml

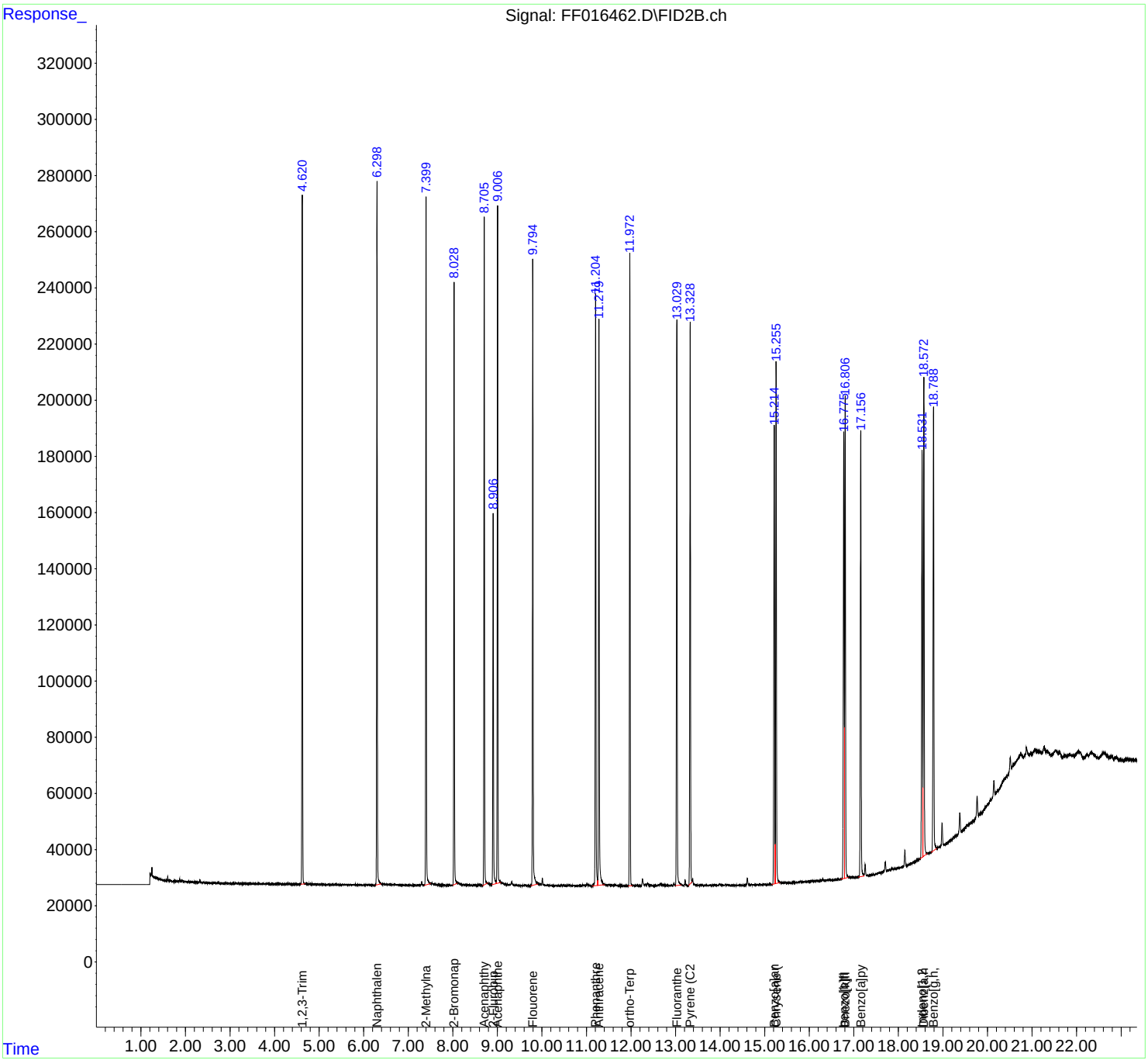
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016462.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 08:42
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 26 23:12:42 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016462.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 08:42
Sample : 20 PPM AROMATIC HC STD
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	4.621	4.591	4.681	BB	245005	2402699	96.70%	5.171%
2	6.298	6.264	6.396	BB	251052	2459778	99.00%	5.293%
3	7.399	7.361	7.499	BB	244989	2484705	100.00%	5.347%
4	8.028	7.996	8.106	BB	213685	2096739	84.39%	4.512%
5	8.706	8.667	8.777	BB	237813	2404945	96.79%	5.175%
6	8.906	8.874	8.977	BV	132172	1407380	56.64%	3.029%
7	9.006	8.977	9.081	VB	241435	2419601	97.38%	5.207%
8	9.795	9.756	9.914	BB	222040	2398495	96.53%	5.161%
9	11.204	11.126	11.251	BV	210770	2363581	95.13%	5.086%
10	11.279	11.251	11.411	VB	201760	2309289	92.94%	4.970%
11	11.973	11.937	12.032	BB	225196	2476630	99.68%	5.330%
12	13.029	12.992	13.132	BB	201372	2313970	93.13%	4.980%
13	13.328	13.289	13.367	BV	199790	2240356	90.17%	4.821%
14	15.213	15.157	15.234	BV	163698	2098704	84.46%	4.516%
15	15.255	15.234	15.346	VB	186272	2209561	88.93%	4.755%
16	16.775	16.709	16.791	BV	159198	2095600	84.34%	4.510%
17	16.807	16.791	16.881	VB	169734	2036001	81.94%	4.381%
18	17.156	17.096	17.229	BV	158897	2082679	83.82%	4.482%
19	18.532	18.481	18.550	BV	144480	1913768	77.02%	4.118%
20	18.571	18.550	18.647	VB	170188	2185929	87.98%	4.704%
21	18.788	18.731	18.867	BB	158153	2068791	83.26%	4.452%
					Sum of corrected areas:	46469200		

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FG092525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FG016647.D**						
Aliphatic C9-C12	6666765.000	60.000	3.279	6.920	111112.750	115503.733	3.802
Aliphatic C12-C16	4693819.000	40.000	6.921	10.379	117345.475	120612.787	2.709
Aliphatic C16-C21	7426900.000	60.000	10.380	13.768	123781.667	129289.357	4.260
Aliphatic C21-C28	9882490.000	80.000	13.769	17.453	123531.125	128839.727	4.120
Aliphatic C28-C40	12025117.000	120.000	17.454	22.488	100209.308	101419.097	1.193
Aliphatic EPH	40695091.000	360.000	3.279	22.488	113041.919	116637.685	3.083

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

Lab Sample ID:	20 PPM ALIPHATIC HCS	Acq On:	25 Sep 2025 15:19
Client Sample ID:		Operator:	YP\AJ
Data file:	FG016647.D	Misc:	
Instrument:	FID_G	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.279	6.920	6666765.000	60.000	ug/ml
Aliphatic C12-C16	6.921	10.379	4693819.000	40.000	ug/ml
Aliphatic C16-C21	10.380	13.768	7426900.000	60.000	ug/ml
Aliphatic C21-C28	13.769	17.453	9882490.000	80.000	ug/ml
Aliphatic C28-C40	17.454	22.488	12025117.000	120.000	ug/ml
Aliphatic EPH	3.279	22.488	40695091.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016647.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 15:19
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HCSTD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HCSTD

Integration File: autoint1.e
Quant Time: Sep 25 16:46:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 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)	12.055	2749482	19.276 ug/ml
Spiked Amount	50.000		Recovery =	38.55%
12)	S 1-chlorooctadecane (S...	13.500	2160022	19.137 ug/ml
Spiked Amount	50.000		Recovery =	38.27%
	Target Compounds			
1)	T n-Nonane (C9)	3.379	2171757	19.138 ug/ml
2)	T n-Decane (C10)	4.640	2228973	19.273 ug/ml
3)	T A~Naphthalene (C11.7)	6.358	2388206	19.370 ug/ml
4)	T n-Dodecane (C12)	6.820	2266035	19.306 ug/ml
5)	T A~2-methylnaphthalene...	7.461	2284097	19.746 ug/ml
6)	T n-Tetradecane (C14)	8.660	2289648	19.516 ug/ml
7)	T n-Hexadecane (C16)	10.279	2404171	19.404 ug/ml
8)	T n-Octadecane (C18)	11.732	2499205	19.198 ug/ml
10)	T n-Eicosane (C20)	13.052	2472696	19.127 ug/ml
11)	T n-Heneicosane (C21)	13.668	2454999	19.118 ug/ml
13)	T n-Docosane (C22)	14.259	2461302	19.088 ug/ml
14)	T n-Tetracosane (C24)	15.369	2493623	19.120 ug/ml
15)	T n-Hexacosane (C26)	16.398	2477877	19.195 ug/ml
16)	T n-Octacosane (C28)	17.353	2449688	19.303 ug/ml
17)	T n-Tricontane (C30)	18.246	2538157	19.837 ug/ml
18)	T n-Dotriacontane (C32)	19.085	2470437	20.171 ug/ml
19)	T n-Tetratriacontane (C34)	19.873	2202652	20.276 ug/ml
20)	T n-Hexatriacontane (C36)	20.617	1824027	20.073 ug/ml
21)	T n-Octatriacontane (C38)	21.398	1574253	19.330 ug/ml
22)	T n-Tetracontane (C40)	22.388	1415591	18.351 ug/ml

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

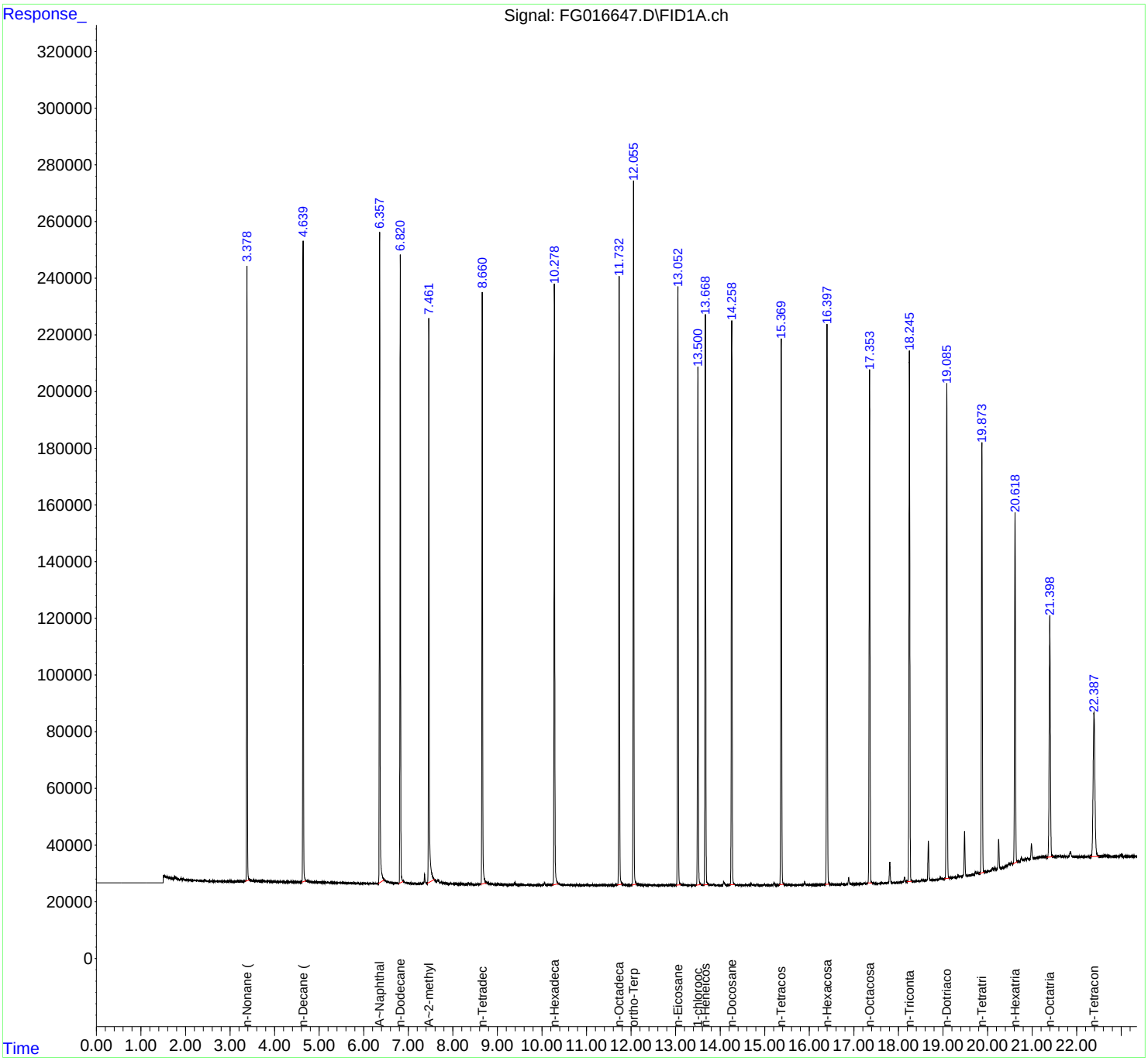
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016647.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 15:19
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HCSTD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HCSTD

Integration File: autoint1.e
Quant Time: Sep 25 16:46:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016647.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 15:19
Sample : 20 PPM ALIPHATIC HCSTD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.379	3.340	3.438	BB	216578	2171757	78.99%	4.320%
2	4.640	4.605	4.707	BB	226058	2228973	81.07%	4.433%
3	6.358	6.323	6.459	BB	229507	2388206	86.86%	4.750%
4	6.820	6.790	6.887	BB	221559	2266035	82.42%	4.507%
5	7.461	7.424	7.586	BB	199187	2284097	83.07%	4.543%
6	8.660	8.617	8.753	BB	208534	2289648	83.28%	4.554%
7	10.279	10.234	10.366	BB	211437	2404171	87.44%	4.782%
8	11.732	11.685	11.802	BB	213950	2499205	90.90%	4.971%
9	12.055	12.015	12.125	BB	247701	2749482	100.00%	5.469%
10	13.052	13.009	13.116	BB	209962	2472696	89.93%	4.918%
11	13.500	13.458	13.566	BB	182752	2160022	78.56%	4.296%
12	13.668	13.619	13.727	BB	201284	2454999	89.29%	4.883%
13	14.259	14.213	14.319	BB	199157	2461302	89.52%	4.895%
14	15.369	15.325	15.429	BB	192438	2493623	90.69%	4.960%
15	16.398	16.347	16.453	BB	196266	2477877	90.12%	4.928%
16	17.353	17.310	17.409	BB	180684	2449688	89.10%	4.872%
17	18.246	18.192	18.308	BB	184919	2538157	92.31%	5.048%
18	19.085	19.029	19.145	BB	174708	2470437	89.85%	4.914%
19	19.873	19.819	19.931	BB	152020	2202652	80.11%	4.381%
20	20.617	20.560	20.667	BB	123482	1824027	66.34%	3.628%
21	21.398	21.332	21.469	BB	85020	1574253	57.26%	3.131%
22	22.388	22.304	22.514	BB	50361	1415591	51.49%	2.816%

Sum of corrected areas: 50276896

Aliphatic EPH 092425.M Thu Sep 25 16:49:55 2025

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

Continuing Calibration Report for SequenceID : FG092525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FG016658.D**						
Aliphatic C9-C12	6204342.000	60.000	3.279	6.920	103405.700	115503.733	10.474
Aliphatic C12-C16	4278189.000	40.000	6.921	10.379	106954.725	120612.787	11.324
Aliphatic C16-C21	6517273.000	60.000	10.380	13.768	108621.217	129289.357	15.986
Aliphatic C21-C28	8123119.000	80.000	13.769	17.453	101538.988	128839.727	21.190
Aliphatic C28-C40	10096505.000	120.000	17.454	22.488	84137.542	101419.097	17.040
Aliphatic EPH	35219428.000	360.000	3.279	22.488	97831.744	116637.685	16.123

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:	26 Sep 2025 08:42
Client Sample ID:		Operator:	YP\AJ
Data file:	FG016658.D	Misc:	
Instrument:	FID_G	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.279	6.920	6204342.000	60.000	ug/ml
Aliphatic C12-C16	6.921	10.379	4278189.000	40.000	ug/ml
Aliphatic C16-C21	10.380	13.768	6517273.000	60.000	ug/ml
Aliphatic C21-C28	13.769	17.453	8123119.000	80.000	ug/ml
Aliphatic C28-C40	17.454	22.488	10096505.000	120.000	ug/ml
Aliphatic EPH	3.279	22.488	35219428.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016658.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 08:42
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025

Integration File: autoint1.e
Quant Time: Sep 26 23:59:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 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)	12.062	2421491	16.977 ug/ml
Spiked Amount	50.000		Recovery =	33.95%
12) S	1-chlorooctadecane (S...	13.509	1858136	16.462 ug/ml
Spiked Amount	50.000		Recovery =	32.92%
	Target Compounds			
1) T	n-Nonane (C9)	3.381	2014067	17.748 ug/ml
2) T	n-Decane (C10)	4.643	2074802	17.940 ug/ml
3) T	A~Naphthalene (C11.7)	6.362	2190698	17.768 ug/ml
4) T	n-Dodecane (C12)	6.825	2115473	18.023 ug/ml
5) T	A~2-methylnaphthalene...	7.466	2050353	17.725 ug/ml
6) T	n-Tetradecane (C14)	8.665	2100252	17.902 ug/ml
7) T	n-Hexadecane (C16)	10.285	2177937	17.578 ug/ml
8) T	n-Octadecane (C18)	11.739	2232218	17.147 ug/ml
10) T	n-Eicosane (C20)	13.058	2162454	16.727 ug/ml
11) T	n-Heneicosane (C21)	13.676	2122601	16.529 ug/ml
13) T	n-Docosane (C22)	14.267	2102965	16.309 ug/ml
14) T	n-Tetracosane (C24)	15.378	2062758	15.816 ug/ml
15) T	n-Hexacosane (C26)	16.406	1992603	15.436 ug/ml
16) T	n-Octacosane (C28)	17.364	1964793	15.483 ug/ml
17) T	n-Tricontane (C30)	18.257	2061102	16.108 ug/ml
18) T	n-Dotriacontane (C32)	19.095	2014056	16.445 ug/ml
19) T	n-Tetratriacontane (C34)	19.884	1778585	16.372 ug/mlm
20) T	n-Hexatriacontane (C36)	20.625	1491820	16.417 ug/mlm
21) T	n-Octatriacontane (C38)	21.410	1442072	17.707 ug/mlm
22) T	n-Tetracontane (C40)	22.407	1308870	16.967 ug/mlm

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016658.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 08:42
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

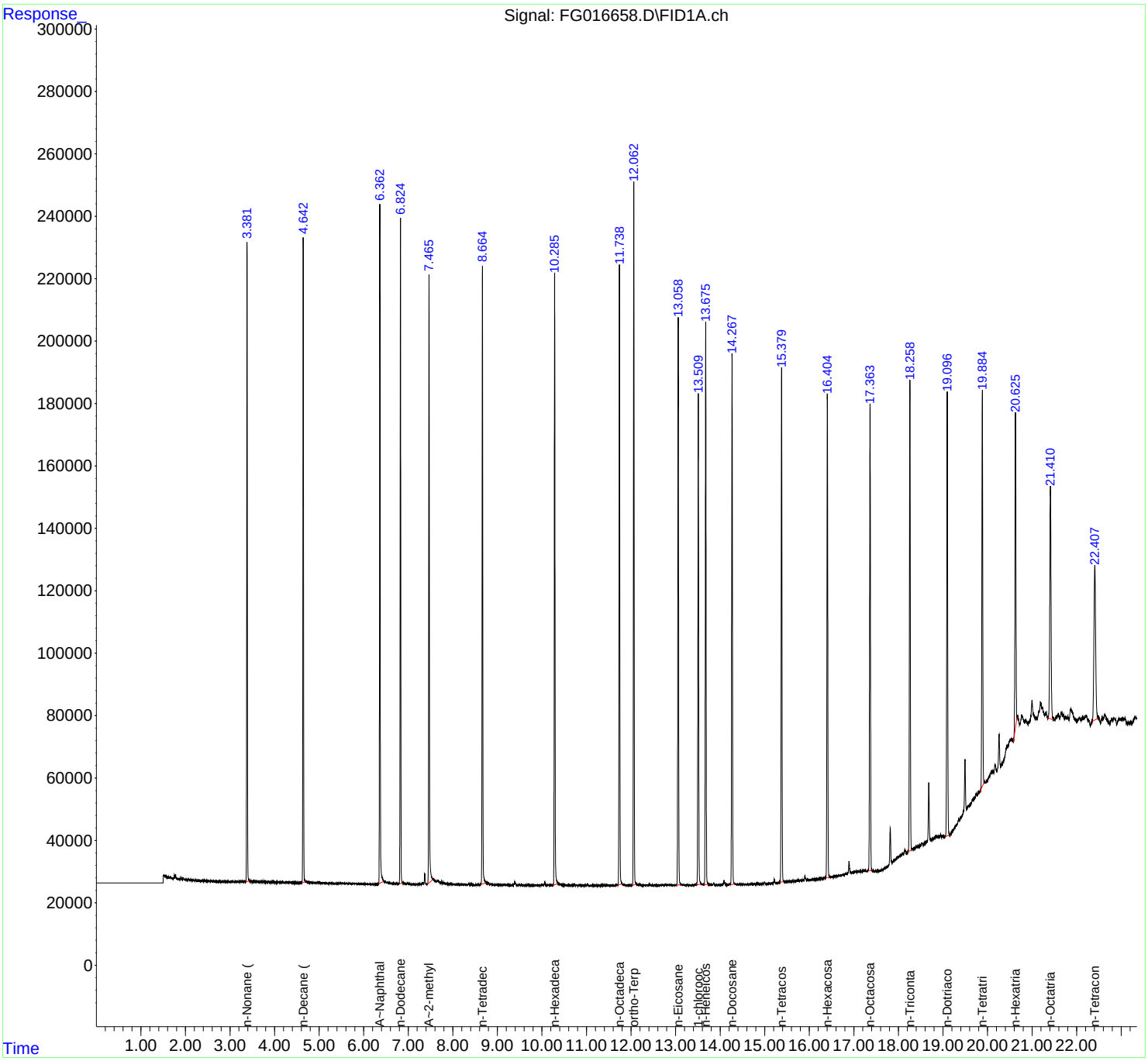
Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025

Integration File: autoint1.e
Quant Time: Sep 26 23:59:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_G
LabSampleId :
20 PPM ALIPHATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG
Data File : FG016658.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 08:42
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.381	3.350	3.432	BB	204682	2014067	83.17%	4.599%
2	4.643	4.612	4.695	BB	206643	2074802	85.68%	4.738%
3	6.362	6.320	6.451	BB	217465	2190698	90.47%	5.003%
4	6.825	6.794	6.878	BB	213112	2115473	87.36%	4.831%
5	7.466	7.430	7.555	BB	194775	2050353	84.67%	4.682%
6	8.665	8.626	8.745	BB	197519	2100252	86.73%	4.796%
7	10.285	10.238	10.365	BB	195771	2177937	89.94%	4.974%
8	11.739	11.697	11.803	BB	198480	2232218	92.18%	5.098%
9	12.062	12.017	12.120	BB	225338	2421491	100.00%	5.530%
10	13.058	13.012	13.120	BB	181892	2162454	89.30%	4.938%
11	13.509	13.467	13.577	BB	156753	1858136	76.74%	4.243%
12	13.676	13.634	13.735	BB	180153	2122601	87.66%	4.847%
13	14.267	14.231	14.328	BB	170081	2102965	86.85%	4.803%
14	15.378	15.341	15.437	BB	164718	2062758	85.19%	4.711%
15	16.406	16.361	16.458	BB	153995	1992603	82.29%	4.550%
16	17.364	17.316	17.417	BB	149567	1964793	81.14%	4.487%
17	18.257	18.204	18.305	BB	151057	2061102	85.12%	4.707%
18	19.095	19.043	19.146	BB	142163	2014056	83.17%	4.599%
19	19.884	19.831	19.935	M	127239	1794127	74.09%	4.097%
20	20.625	20.582	20.658	M	101342	1502776	62.06%	3.432%
21	21.412	21.356	21.509	PV	74246	1449009	59.84%	3.309%
22	22.408	22.294	22.486	BV	49876	1324172	54.68%	3.024%
			Sum of corrected areas:			43788844		

Aliphatic EPH 092425.M Sat Sep 27 00:28:15 2025

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

Continuing Calibration Report for SequenceID : FG092525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FG016663.D**						
Aliphatic C9-C12	6185611.000	60.000	3.279	6.920	103093.517	115503.733	10.744
Aliphatic C12-C16	4240489.000	40.000	6.921	10.379	106012.225	120612.787	12.105
Aliphatic C16-C21	6462572.000	60.000	10.380	13.768	107709.533	129289.357	16.691
Aliphatic C21-C28	8012139.000	80.000	13.769	17.453	100151.738	128839.727	22.266
Aliphatic C28-C40	9996469.000	120.000	17.454	22.488	83303.908	101419.097	17.862
Aliphatic EPH	34897280.000	360.000	3.279	22.488	96936.889	116637.685	16.891

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:	26 Sep 2025 11:10
Client Sample ID:		Operator:	YP\AJ
Data file:	FG016663.D	Misc:	
Instrument:	FID_G	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.279	6.920	6185611.000	60.000	ug/ml
Aliphatic C12-C16	6.921	10.379	4240489.000	40.000	ug/ml
Aliphatic C16-C21	10.380	13.768	6462572.000	60.000	ug/ml
Aliphatic C21-C28	13.769	17.453	8012139.000	80.000	ug/ml
Aliphatic C28-C40	17.454	22.488	9996469.000	120.000	ug/ml
Aliphatic EPH	3.279	22.488	34897280.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016663.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 11:10
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Sep 27 00:02:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	12.060	2400352	16.829 ug/ml
	Spiked Amount 50.000		Recovery = 33.66%	
12)	S 1-chlorooctadecane (S...	13.506	1842088	16.320 ug/ml
	Spiked Amount 50.000		Recovery = 32.64%	
	Target Compounds			
1)	T n-Nonane (C9)	3.381	2011686	17.727 ug/ml
2)	T n-Decane (C10)	4.642	2074149	17.934 ug/ml
3)	T A~Naphthalene (C11.7)	6.361	2176161	17.650 ug/ml
4)	T n-Dodecane (C12)	6.824	2099776	17.889 ug/ml
5)	T A~2-methylnaphthalene...	7.465	2031759	17.564 ug/ml
6)	T n-Tetradecane (C14)	8.664	2081922	17.745 ug/ml
7)	T n-Hexadecane (C16)	10.283	2158567	17.421 ug/ml
8)	T n-Octadecane (C18)	11.737	2217722	17.036 ug/ml
10)	T n-Eicosane (C20)	13.057	2142034	16.570 ug/ml
11)	T n-Heneicosane (C21)	13.673	2102816	16.375 ug/ml
13)	T n-Docosane (C22)	14.265	2079058	16.124 ug/ml
14)	T n-Tetracosane (C24)	15.377	2044826	15.678 ug/ml
15)	T n-Hexacosane (C26)	16.405	1972071	15.277 ug/ml
16)	T n-Octacosane (C28)	17.362	1916184	15.099 ug/ml
17)	T n-Tricontane (C30)	18.255	1976946	15.450 ug/ml
18)	T n-Dotriacontane (C32)	19.093	1963678	16.034 ug/ml
19)	T n-Tetratriacontane (C34)	19.882	1795135	16.524 ug/mlm
20)	T n-Hexatriacontane (C36)	20.627	1522728	16.757 ug/mlm
21)	T n-Octatriacontane (C38)	21.409	1411187	17.328 ug/ml
22)	T n-Tetracontane (C40)	22.404	1326795	17.200 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016663.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 11:10
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

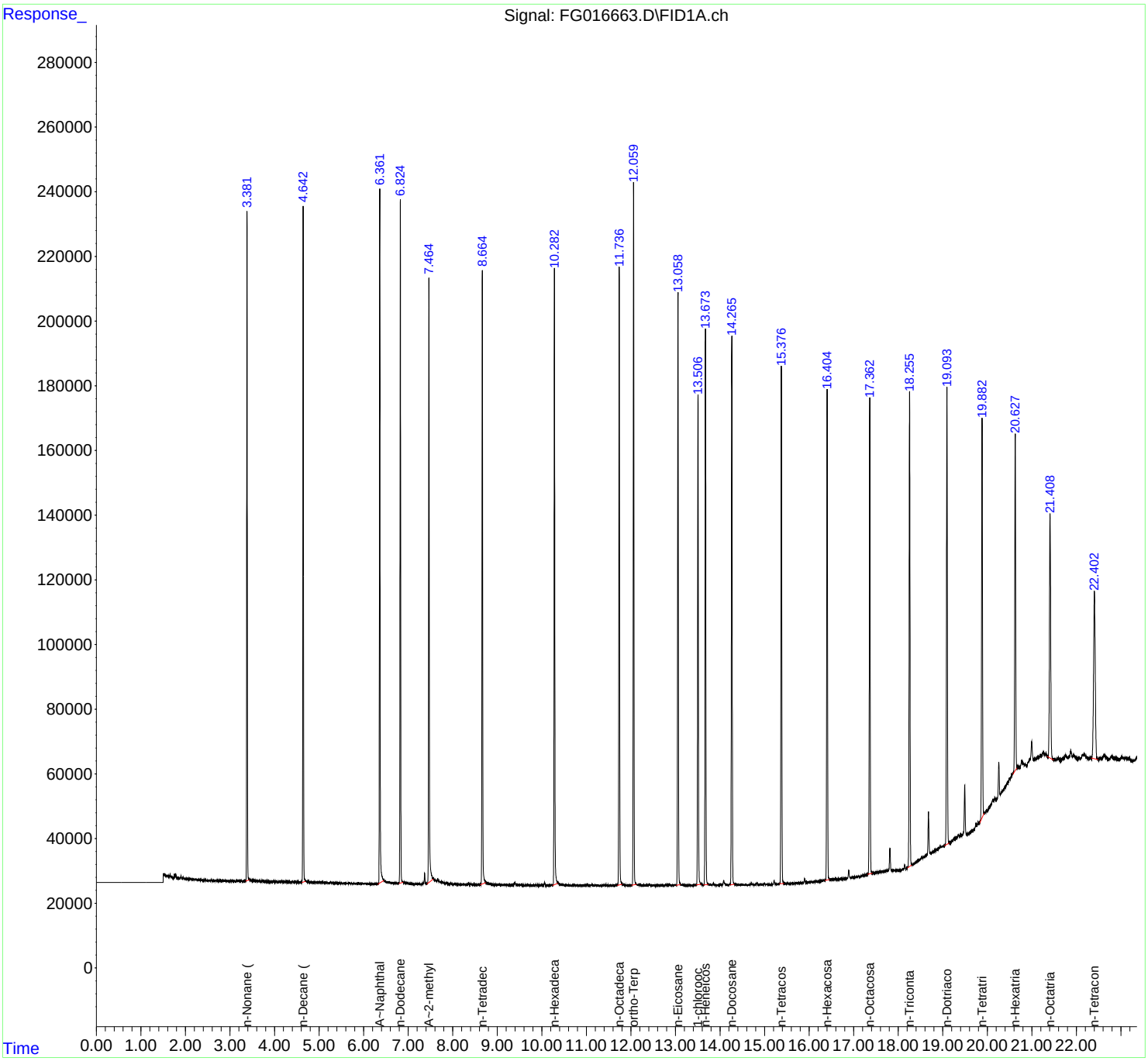
Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025

Integration File: autoint1.e
Quant Time: Sep 27 00:02:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_G
LabSampleId :
20 PPM ALIPHATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG
Data File : FG016663.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 11:10
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.381	3.351	3.433	BB	206870	2011686	83.81%	4.640%
2	4.642	4.609	4.698	BB	208981	2074149	86.41%	4.784%
3	6.361	6.323	6.455	BB	214882	2176161	90.66%	5.019%
4	6.824	6.792	6.880	BB	210792	2099776	87.48%	4.843%
5	7.465	7.420	7.566	BB	186879	2031759	84.64%	4.686%
6	8.664	8.622	8.745	BB	189653	2081922	86.73%	4.802%
7	10.283	10.238	10.360	BB	190595	2158567	89.93%	4.979%
8	11.737	11.692	11.806	BB	190556	2217722	92.39%	5.115%
9	12.060	12.013	12.123	BB	216826	2400352	100.00%	5.536%
10	13.057	13.010	13.115	BB	182582	2142034	89.24%	4.941%
11	13.506	13.463	13.574	BB	150788	1842088	76.74%	4.249%
12	13.673	13.628	13.736	BB	171790	2102816	87.60%	4.850%
13	14.265	14.229	14.319	BB	169880	2079058	86.61%	4.795%
14	15.377	15.330	15.438	BB	159364	2044826	85.19%	4.716%
15	16.405	16.357	16.460	BB	151201	1972071	82.16%	4.549%
16	17.362	17.313	17.418	BB	147018	1916184	79.83%	4.420%
17	18.255	18.202	18.302	BB	146376	1976946	82.36%	4.560%
18	19.093	19.039	19.143	BB	141042	1963678	81.81%	4.529%
19	19.883	19.704	19.938	BB	123295	1792615	74.68%	4.135%
20	20.628	20.289	20.665	PB	103899	1533201	63.87%	3.536%
21	21.409	21.347	21.488	BB	75380	1411187	58.79%	3.255%
22	22.404	22.328	22.487	BB	51627	1326795	55.28%	3.060%
			Sum of corrected areas:			43355593		

Aliphatic EPH 092425.M Sat Sep 27 00:29:18 2025

QC SAMPLE DATA

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

Report of Analysis

Client:	G Environmental			Date Collected:	
Project:	TGP			Date Received:	
Client Sample ID:	PB169823BL			SDG No.:	Q3192
Lab Sample ID:	PB169823BL			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
09/25/25 08:15	09/26/25 10:37	PB169823

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.14	U	1	0.14	1.00	mg/kg	FC069854.D
Aliphatic C12-C16	Aliphatic C12-C16	0.11	U	1	0.11	0.67	mg/kg	FC069854.D
Aliphatic C16-C21	Aliphatic C16-C21	0.13	U	1	0.13	1.00	mg/kg	FC069854.D
Aliphatic C21-C28	Aliphatic C21-C28	0.53	U	1	0.53	1.33	mg/kg	FC069854.D
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	FC069854.D
Aromatic C10-C12	Aromatic C10-C12	0.12	U	1	0.12	0.67	mg/kg	FD049785.D
Aromatic C12-C16	Aromatic C12-C16	0.23	U	1	0.23	1.00	mg/kg	FD049785.D
Aromatic C16-C21	Aromatic C16-C21	0.40	U	1	0.40	1.67	mg/kg	FD049785.D
Aromatic C21-C36	Aromatic C21-C36	1.19	U	1	1.19	2.67	mg/kg	FD049785.D
Total AliphaticEPH	Total AliphaticEPH	2.09	U		2.09	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	1.94	U		1.94	6.01	mg/kg	
Total EPH	Total EPH	4.03	U		4.03	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

Report of Analysis

Client:	G Environmental		Date Collected:		
Project:	TGP		Date Received:		
Client Sample ID:	PB169823BL		SDG No.:	Q3192	
Lab Sample ID:	PB169823BL		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.01 Units:	g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069854.D	1	09/25/25	09/26/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.14	U	0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.11	U	0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.13	U	0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.53	U	0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.2		40 - 140	54%	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:	PB169823BL	Acq On:	26 Sep 2025 10:37
Client Sample ID:	PB169823BL	Operator:	YP/AJ
Data file:	FC069854.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	3.300	6.593	0	0	300	ug/ml
Aliphatic C12-C16	6.594	9.993	0	0	200	ug/ml
Aliphatic C16-C21	9.994	13.360	0	0	300	ug/ml
Aliphatic C21-C28	13.361	17.023	0	0	400	ug/ml
Aliphatic C28-C40	17.024	21.984	0	0	600	ug/ml
Aliphatic EPH	3.300	21.984	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.094	13.094	4292135	27.18		ug/ml
Aliphatic C9-C28	3.300	17.023	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069854.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 10:37
Operator : YP/AJ
Sample : PB169823BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169823BL

Integration File: autoint1.e
Quant Time: Sep 27 06:07:46 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...	13.094	4292135	27.179 ug/ml
Spiked Amount 50.000		Recovery = 54.36%	
Target Compounds			

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

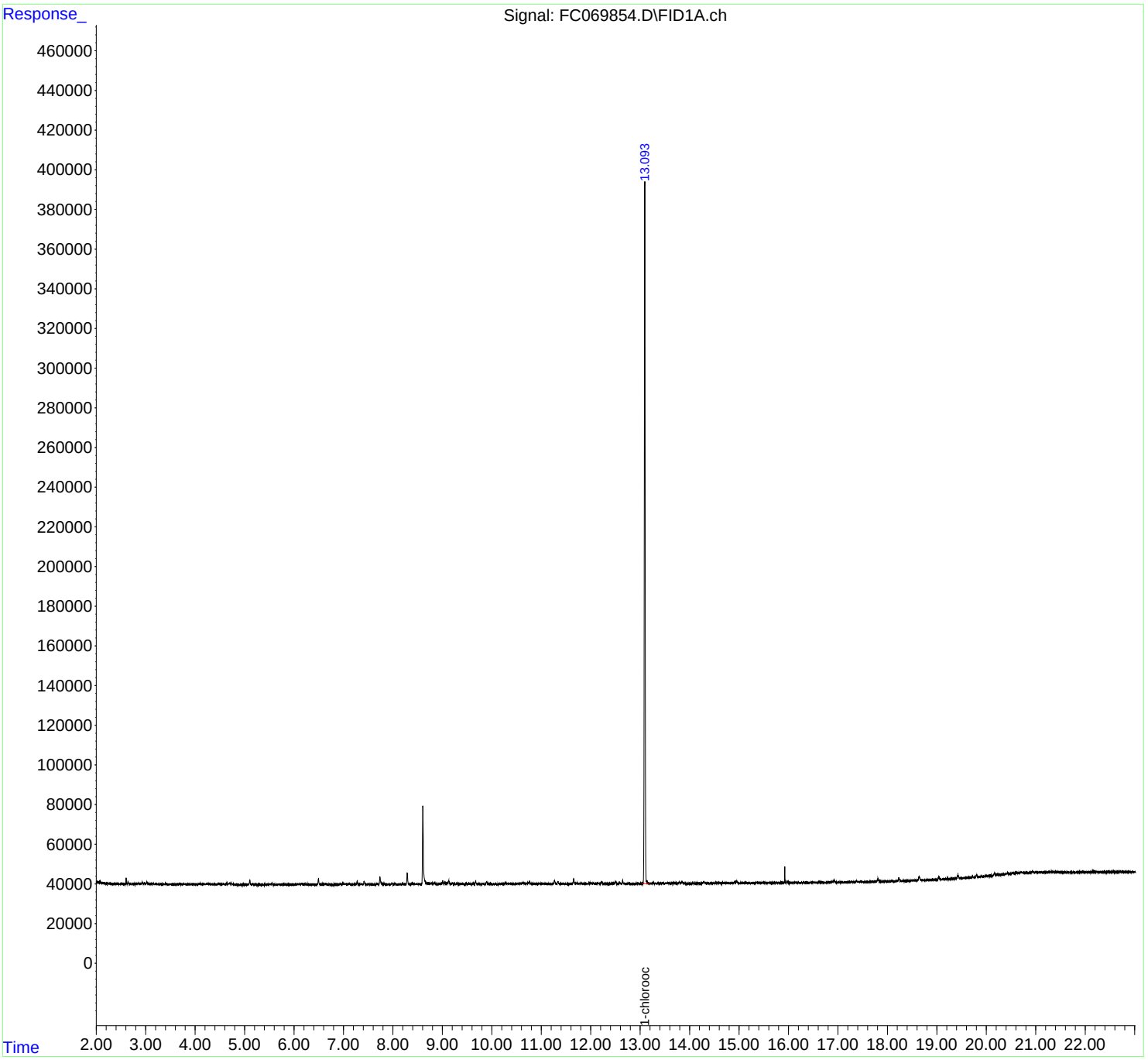
Quantitation Report (QT Reviewed)

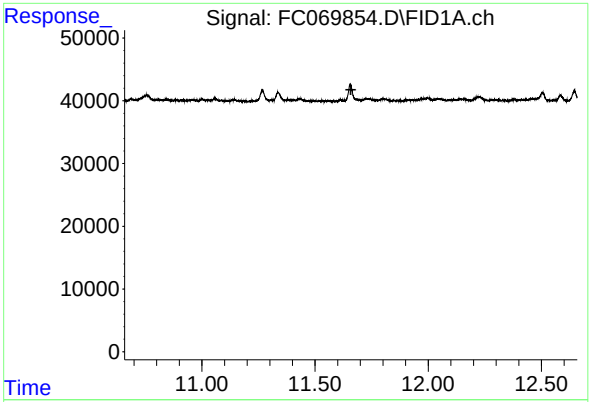
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069854.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 10:37
Operator : YP/AJ
Sample : PB169823BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169823BL

Integration File: autoint1.e
Quant Time: Sep 27 06:07:46 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

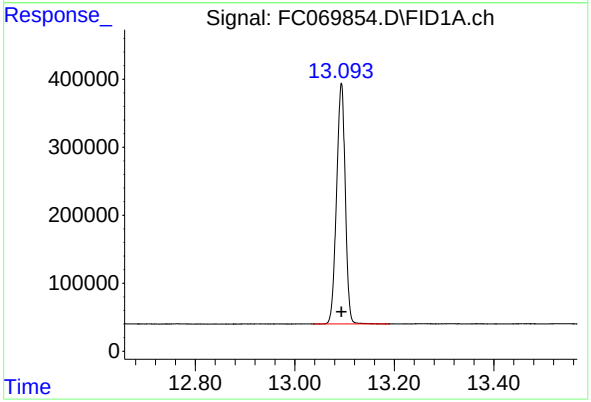




#9 ortho-Terphenyl (SURR)

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

Instrument :
FID_C
ClientSampleId :
PB169823BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.094 min
Delta R.T.: 0.000 min
Response: 4292135
Conc: 27.18 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069854.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 10:37
Sample : PB169823BL
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	13.094	13.037	13.189	BB	354657	4292135	100.00%	100.000%

Sum of corrected areas: 4292135

Aliphatic EPH 092325.M Sat Sep 27 06:41:33 2025

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

Report of Analysis

Client:	G Environmental			Date Collected:			
Project:	TGP			Date Received:			
Client Sample ID:	PB169823BL			SDG No.:	Q3192		
Lab Sample ID:	PB169823BL			Matrix:	Solid		
Analytical Method:	NJEPH			% Solid:	100		
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	2000	uL	
Soil Aliquot Vol:			uL	Test:	EPH		
Prep Method :							

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049785.D	1	09/25/25	10/01/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.12	U	0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.23	U	0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	0.40	U	0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	1.19	U	1.19	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	44.1		40 - 140	88%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	44.5		40 - 140	89%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.0		40 - 140	98%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB169823BL	Acq On:	01 Oct 2025 15:40
Client Sample ID:	PB169823BL	Operator:	YP/AJ
Data file:	FD049785.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.388	6.131	0	0	200	ug/ml
Aromatic C12-C16	6.132	8.760	0	0	300	ug/ml
Aromatic C16-C21	8.761	13.050	0	0	500	ug/ml
Aromatic C21-C36	13.051	18.471	0	0	800	ug/ml
Aromatic EPH	4.388	18.471	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.697	7.697	4958684	44.09		ug/ml
2-Flurobiphenyl (SURR)	8.561	8.561	3576173	44.55		ug/ml
ortho-Terphenyl (SURR)	11.610	11.610	6927330	48.96		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049785.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 15:40
Operator : YP/AJ
Sample : PB169823BL
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB169823BL

Integration File: autoint1.e
Quant Time: Oct 02 10:16:15 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	4958684	44.092 ug/ml
Spiked Amount 50.000		Recovery = 88.18%	
6) S 2-Flurobiphenyl (SURR)	8.561	3576173	44.551 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery = 89.10%	
11) S ortho-Terphenyl (SURR)	11.610	6927330	48.963 ug/ml
Spiked Amount 50.000		Recovery = 97.93%	
Target Compounds			

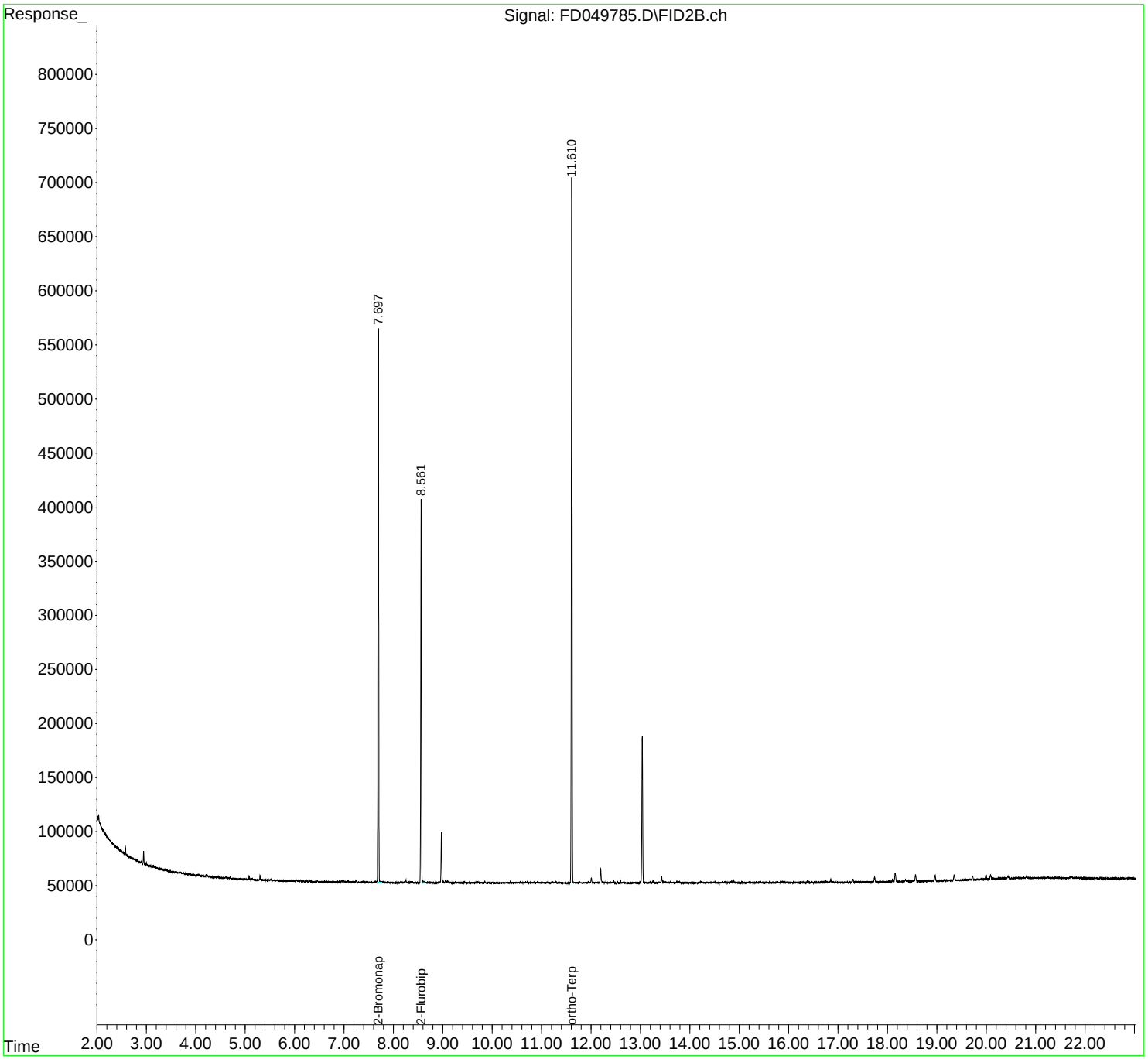
(f)=RT Delta > 1/2 Window (m)=manual int.

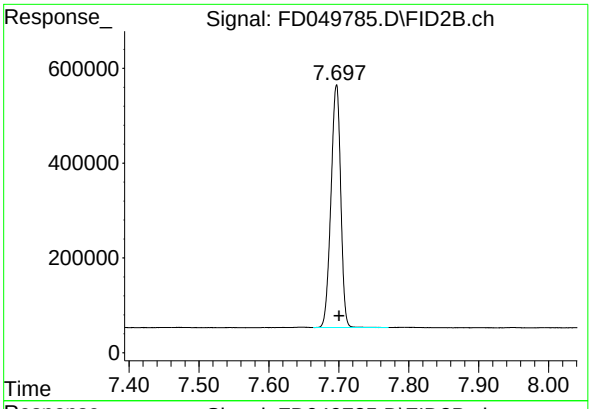
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049785.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 15:40
Operator : YP/AJ
Sample : PB169823BL
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB169823BL

Integration File: autoint1.e
Quant Time: Oct 02 10:16:15 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

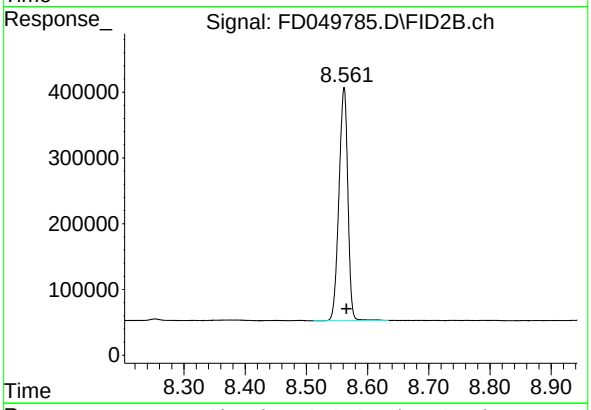




#4 2-Bromonaphthalene (SURR)

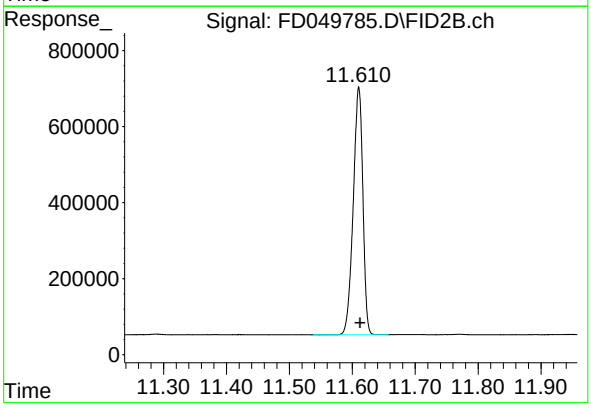
R.T.: 7.697 min
Delta R.T.: -0.004 min
Response: 4958684
Conc: 44.09 ug/ml

Instrument :
FID_D
ClientSampleId :
PB169823BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.561 min
Delta R.T.: -0.004 min
Response: 3576173
Conc: 44.55 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.610 min
Delta R.T.: -0.002 min
Response: 6927330
Conc: 48.96 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049785.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 15:40
Sample : PB169823BL
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	7.697	7.663	7.771	VB	517457	4958684	71.58%	32.070%
2	8.561	8.511	8.635	BB	353841	3576173	51.62%	23.129%
3	11.610	11.538	11.658	BB	653716	6927330	100.00%	44.802%

Sum of corrected areas: 15462188

Aromatic EPH 090425.M Thu Oct 02 10:22:11 2025

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

Report of Analysis

Client:	G Environmental			Date Collected:	
Project:	TGP			Date Received:	
Client Sample ID:	PB169823BS			SDG No.:	Q3192
Lab Sample ID:	PB169823BS			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
09/25/25 08:15	09/26/25 13:39	PB169823

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.20		1	0.14	1.00	mg/kg	FC069855.D
Aliphatic C12-C16	Aliphatic C12-C16	4.49		1	0.11	0.67	mg/kg	FC069855.D
Aliphatic C16-C21	Aliphatic C16-C21	7.34		1	0.13	1.00	mg/kg	FC069855.D
Aliphatic C21-C28	Aliphatic C21-C28	9.80		1	0.53	1.33	mg/kg	FC069855.D
Aliphatic C28-C40	Aliphatic C28-C40	16.1		1	1.18	2.00	mg/kg	FC069855.D
Aromatic C10-C12	Aromatic C10-C12	4.45		1	0.12	0.67	mg/kg	FD049784.D
Aromatic C12-C16	Aromatic C12-C16	7.22		1	0.23	1.00	mg/kg	FD049784.D
Aromatic C16-C21	Aromatic C16-C21	14.6		1	0.40	1.67	mg/kg	FD049784.D
Aromatic C21-C36	Aromatic C21-C36	24.7		1	1.19	2.66	mg/kg	FD049784.D
Total AliphaticEPH	Total AliphaticEPH	42.9			2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	51.0			1.94	6.00	mg/kg	
Total EPH	Total EPH	93.9			4.03	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

Report of Analysis

Client:	G Environmental		Date Collected:		
Project:	TGP		Date Received:		
Client Sample ID:	PB169823BS		SDG No.:	Q3192	
Lab Sample ID:	PB169823BS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.03 Units:	g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069855.D	1	09/25/25	09/26/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.20		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	4.49		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	7.34		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	9.80		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	16.1		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.1		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	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:	PB169823BS	Acq On:	26 Sep 2025 13:39
Client Sample ID:	PB169823BS	Operator:	YP/AJ
Data file:	FC069855.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	3.300	6.593	10420261	78.041	300	ug/ml
Aliphatic C12-C16	6.594	9.993	10565427	67.436	200	ug/ml
Aliphatic C16-C21	9.994	13.360	19791143	110.227	300	ug/ml
Aliphatic C21-C28	13.361	17.023	26619658	147.117	400	ug/ml
Aliphatic C28-C40	17.024	21.984	31014223	241.024	600	ug/ml
Aliphatic EPH	3.300	21.984	98410712	643.845		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.097	13.097	6171064	39.08		ug/ml
Aliphatic C9-C28	3.300	17.023	67396489	402.821	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069855.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 13:39
Operator : YP/AJ
Sample : PB169823BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169823BS

Integration File: autoint1.e
Quant Time: Sep 27 06:08:05 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			
12) S	1-chlorooctadecane (S...	13.097	6171064	39.078 ug/ml
Spiked Amount	50.000		Recovery =	78.16%
	Target Compounds			
1) T	n-Nonane (C9)	3.399	2685624	20.950 ug/ml
2) T	n-Decane (C10)	4.471	3447612	25.945 ug/ml
4) T	n-Dodecane (C12)	6.493	4287025	30.732 ug/ml
6) T	n-Tetradecane (C14)	8.291	4950488	33.377 ug/ml
7) T	n-Hexadecane (C16)	9.894	5614939	34.024 ug/ml
8) T	n-Octadecane (C18)	11.338	6279700	35.236 ug/ml
10) T	n-Eicosane (C20)	12.650	6818781	37.859 ug/ml
11) T	n-Heneicosane (C21)	13.261	6692662	37.117 ug/ml
13) T	n-Docosane (C22)	13.849	6754131	37.177 ug/ml
14) T	n-Tetracosane (C24)	14.953	6785655	36.878 ug/ml
15) T	n-Hexacosane (C26)	15.975	6639463	36.569 ug/ml
16) T	n-Octacosane (C28)	16.925	6440409	36.484 ug/ml
17) T	n-Tricontane (C30)	17.814	6318850	36.101 ug/ml
18) T	n-Dotriacontane (C32)	18.647	5974634	36.930 ug/ml
19) T	n-Tetratriacontane (C34)	19.431	5577215	39.908 ug/ml
20) T	n-Hexatriacontane (C36)	20.171	4897996	43.384 ug/ml
21) T	n-Octatriacontane (C38)	20.933	4381476	45.420 ug/ml
22) T	n-Tetracontane (C40)	21.891	3864052	44.864 ug/ml

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

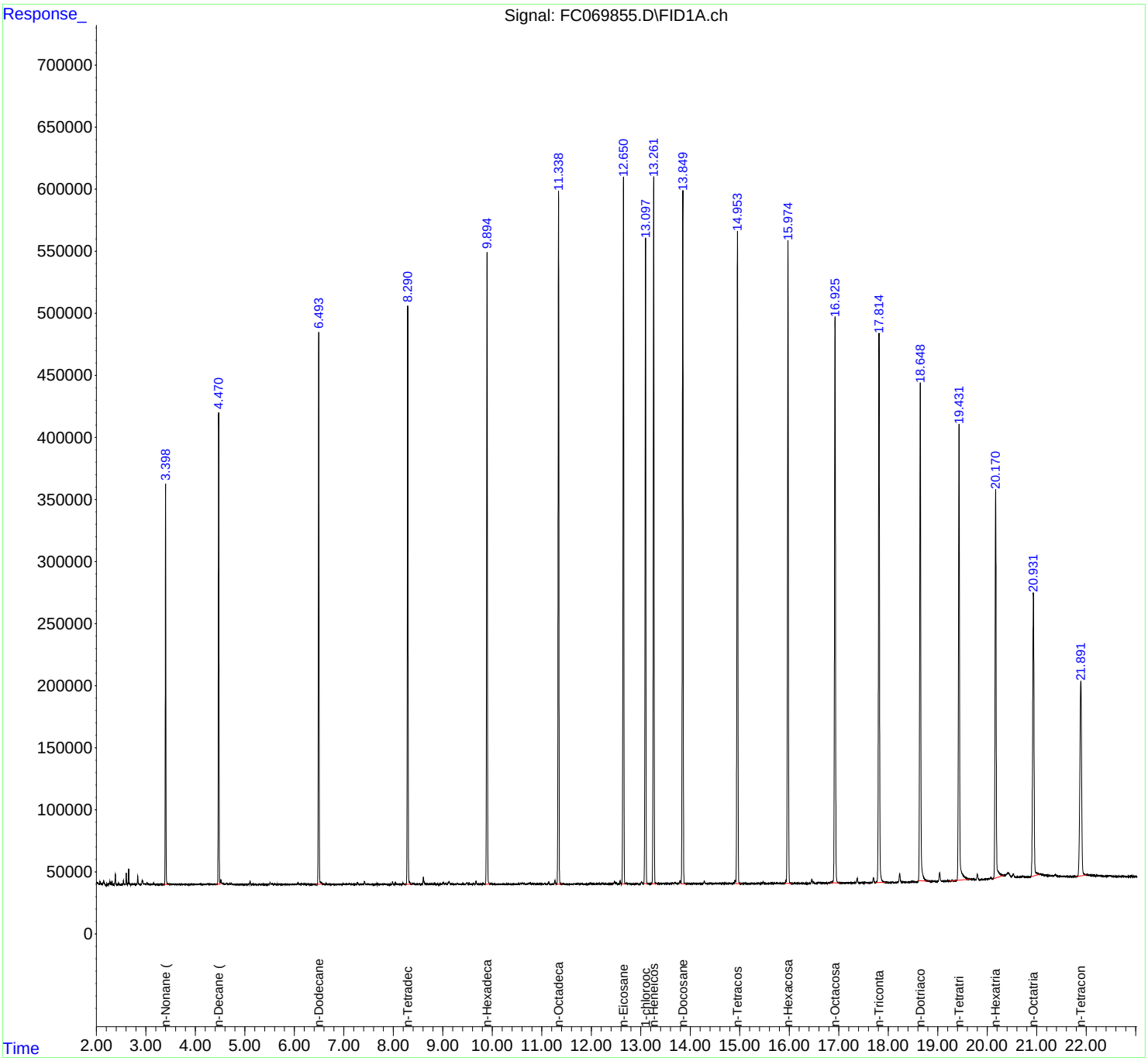
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069855.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 13:39
Operator : YP/AJ
Sample : PB169823BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169823BS

Integration File: autoint1.e
Quant Time: Sep 27 06:08:05 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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069855.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 13:39
Sample : PB169823BS
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	3.399	3.349	3.462	BB	322297	2685624	39.39%	2.568%
2	4.471	4.414	4.501	BV	379810	3447612	50.56%	3.297%
3	6.493	6.430	6.569	BB	445265	4287025	62.87%	4.099%
4	8.291	8.235	8.367	BV	466297	4950488	72.60%	4.734%
5	9.894	9.847	9.947	BB	510899	5614939	82.35%	5.369%
6	11.338	11.295	11.409	VB	558739	6279700	92.09%	6.005%
7	12.650	12.609	12.695	PV	570183	6818781	100.00%	6.520%
8	13.097	13.054	13.150	BB	521526	6171064	90.50%	5.901%
9	13.261	13.220	13.324	BB	571556	6692662	98.15%	6.399%
10	13.849	13.811	13.922	VB	556558	6754131	99.05%	6.458%
11	14.953	14.917	15.017	VB	526391	6785655	99.51%	6.488%
12	15.975	15.904	16.052	BB	515348	6639463	97.37%	6.349%
13	16.925	16.830	17.019	BB	455237	6440409	94.45%	6.158%
14	17.814	17.749	17.949	BB	442954	6318850	92.67%	6.042%
15	18.647	18.610	18.809	BB	400722	5974634	87.62%	5.713%
16	19.431	19.237	19.634	BB	368958	5577215	81.79%	5.333%
17	20.171	20.120	20.335	BB	312694	4897996	71.83%	4.683%
18	20.933	20.880	21.062	BB	227385	4381476	64.26%	4.190%
19	21.891	21.797	22.007	BB	157161	3864052	56.67%	3.695%

Sum of corrected areas: 104581776

Aliphatic EPH 092325.M Sat Sep 27 06:44:16 2025

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Report of Analysis

Client:	G Environmental		Date Collected:		
Project:	TGP		Date Received:		
Client Sample ID:	PB169823BS		SDG No.:	Q3192	
Lab Sample ID:	PB169823BS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.03 Units:	g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049784.D	1	09/25/25	10/01/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.45		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	7.22		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	14.6		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	24.7		1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	38.3		40 - 140	77%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	38.2		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	43.0		40 - 140	86%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB169823BS	Acq On:	01 Oct 2025 14:56
Client Sample ID:	PB169823BS	Operator:	YP/AJ
Data file:	FD049784.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	4.388	6.131	7761215	66.875	200	ug/ml
Aromatic C12-C16	6.132	8.760	14719838	108.341	300	ug/ml
Aromatic C16-C21	8.761	13.050	29780380	219.343	500	ug/ml
Aromatic C21-C36	13.051	18.471	43848673	370.588	800	ug/ml
Aromatic EPH	4.388	18.471	96110106	765.147		ug/ml
2-Flurobiphenyl (SURR)	8.561	8.561	3064968	38.18		ug/ml
ortho-Terphenyl (SURR)	11.610	11.610	6084058	43		ug/ml
2-Bromonaphthalene (SURR)	7.697	7.697	4307044	38.3		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049784.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 14:56
Operator : YP/AJ
Sample : PB169823BS
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB169823BS

Integration File: autoint1.e
Quant Time: Oct 02 10:15:49 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	4307044	38.297 ug/ml
Spiked Amount	50.000		Recovery =	76.59%
6) S	2-Flurobiphenyl (SURR)	8.561	3064968	38.183 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	76.37%
11) S	ortho-Terphenyl (SURR)	11.610	6084058	43.003 ug/ml
Spiked Amount	50.000		Recovery =	86.01%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.488	3475813	32.257 ug/ml
2) T	Naphthalene (C11.7)	6.031	4285402	34.460 ug/ml
3) T	2-Methylnaphthalene (...	7.085	4278724	32.829 ug/ml
5) T	Acenaphthylene (C15.06)	8.365	5189790	37.433 ug/ml
7) T	Acenaphthene (C15.5)	8.662	5251324	37.882 ug/ml
8) T	Flouorene (C16.55)	9.444	5651413	40.742 ug/ml
9) T	Phenanthrene (C19.36)	10.843	6015809	43.185 ug/ml
10) T	Anthracene (C19.43)	10.918	5713315	43.269 ug/ml
12) T	Fluoranthene (C21.85)	12.658	6182701	45.910 ug/ml
13) T	Pyrene (C20.8)	12.957	6217142	46.737 ug/ml
14) T	Benzo[a]anthracene (C...	14.829	5733767	47.947 ug/ml
15) T	Chrysene (C27.41)	14.874	6265826	51.506 ug/ml
16) T	benzo[b]fluoranthene ...	16.380	5536280	46.186 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.416	5479463	48.631 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.760	5314809	45.292 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.128	5503413	50.587 ug/ml
20) T	Dibenz[a,h]anthracene...	18.166	5113486	44.875 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.383	4901629	42.126 ug/ml

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

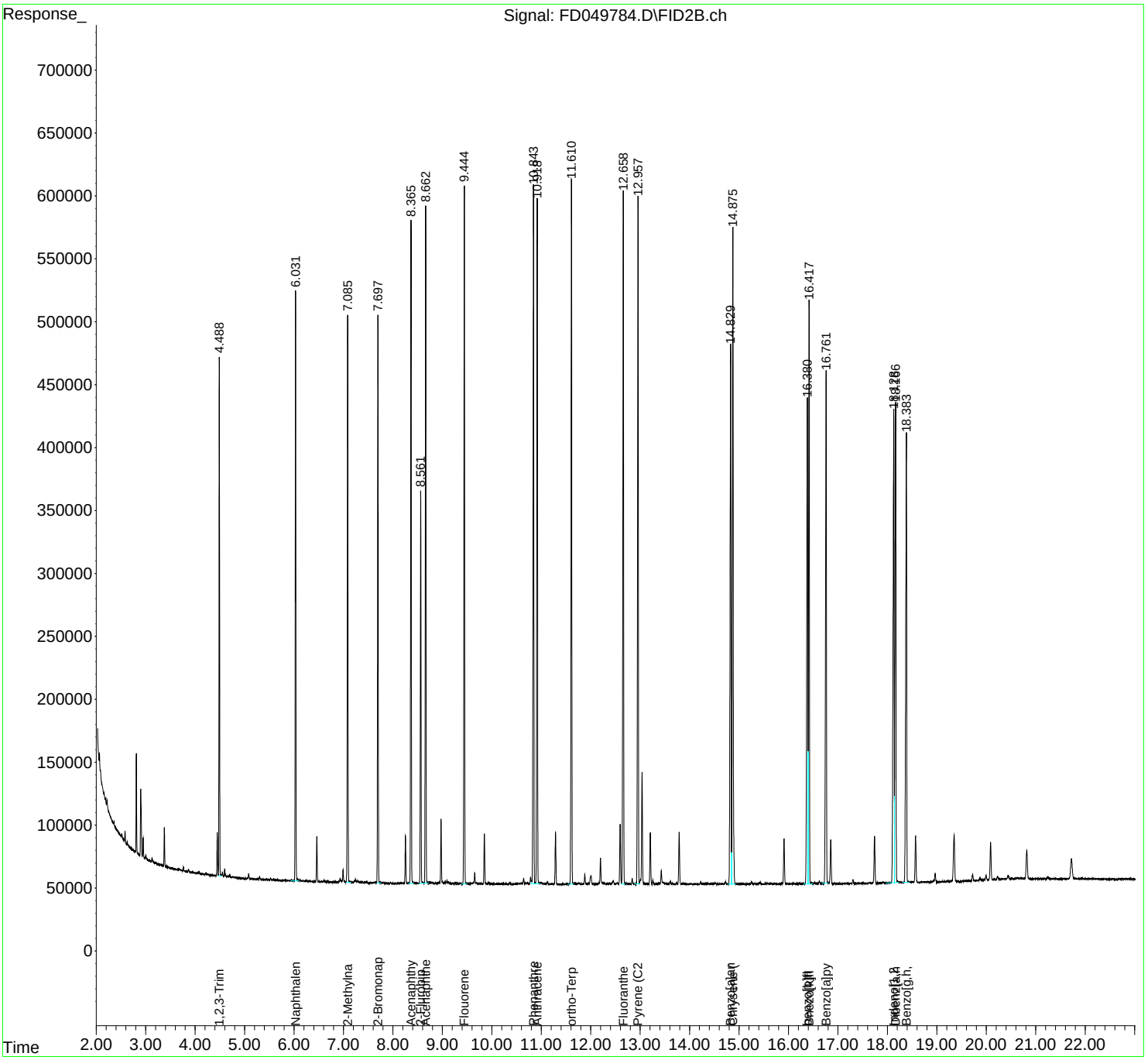
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049784.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 14:56
Operator : YP/AJ
Sample : PB169823BS
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB169823BS

Integration File: autoint1.e
Quant Time: Oct 02 10:15:49 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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049784.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 14:56
Sample : PB169823BS
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	4.488	4.466	4.534	VV	410848	3475813	55.47%	3.172%
2	6.031	5.941	6.104	BB	469885	4285402	68.39%	3.911%
3	7.085	7.048	7.161	PB	448104	4278724	68.29%	3.905%
4	7.697	7.668	7.761	PB	452773	4307044	68.74%	3.931%
5	8.365	8.314	8.431	BB	523248	5189790	82.83%	4.737%
6	8.561	8.514	8.628	BB	310749	3064968	48.92%	2.797%
7	8.662	8.628	8.724	BB	531167	5251324	83.81%	4.793%
8	9.444	9.394	9.501	BB	556251	5651413	90.19%	5.158%
9	10.843	10.799	10.881	VV	561054	6015809	96.01%	5.491%
10	10.918	10.881	10.978	VV	540647	5713315	91.18%	5.214%
11	11.610	11.534	11.661	BB	564852	6084058	97.10%	5.553%
12	12.658	12.622	12.701	VB	547078	6182701	98.67%	5.643%
13	12.957	12.874	12.985	BV	549737	6217142	99.22%	5.674%
14	14.829	14.771	14.849	BV	428494	5733767	91.51%	5.233%
15	14.874	14.849	14.944	VB	518337	6265826	100.00%	5.719%
16	16.380	16.301	16.396	BV	387259	5536280	88.36%	5.053%
17	16.416	16.396	16.498	VB	472566	5479463	87.45%	5.001%
18	16.760	16.678	16.801	BB	408073	5314809	84.82%	4.851%
19	18.128	17.968	18.143	BV	374353	5503413	87.83%	5.023%
20	18.166	18.143	18.234	VB	384953	5113486	81.61%	4.667%
21	18.383	18.301	18.444	BB	362531	4901629	78.23%	4.474%

Sum of corrected areas: 109566175

Aromatic EPH 090425.M Thu Oct 02 10:21:10 2025

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Fax : 908 789 8922

Report of Analysis

Client:	G Environmental			Date Collected:	
Project:	TGP			Date Received:	
Client Sample ID:	PB169823BSD			SDG No.:	Q3192
Lab Sample ID:	PB169823BSD			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
09/25/25 08:15	09/26/25 14:25	PB169823

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.08		1	0.14	1.00	mg/kg	FC069856.D
Aliphatic C12-C16	Aliphatic C12-C16	4.42		1	0.11	0.67	mg/kg	FC069856.D
Aliphatic C16-C21	Aliphatic C16-C21	7.44		1	0.13	1.00	mg/kg	FC069856.D
Aliphatic C21-C28	Aliphatic C21-C28	10.2		1	0.53	1.33	mg/kg	FC069856.D
Aliphatic C28-C40	Aliphatic C28-C40	16.7		1	1.18	2.00	mg/kg	FC069856.D
Aromatic C10-C12	Aromatic C10-C12	4.55		1	0.12	0.67	mg/kg	FD049786.D
Aromatic C12-C16	Aromatic C12-C16	7.39		1	0.23	1.00	mg/kg	FD049786.D
Aromatic C16-C21	Aromatic C16-C21	15.1		1	0.40	1.67	mg/kg	FD049786.D
Aromatic C21-C36	Aromatic C21-C36	25.4		1	1.19	2.66	mg/kg	FD049786.D
Total AliphaticEPH	Total AliphaticEPH	43.8			2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	52.4			1.94	6.00	mg/kg	
Total EPH	Total EPH	96.3			4.03	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

Report of Analysis

Client:	G Environmental		Date Collected:		
Project:	TGP		Date Received:		
Client Sample ID:	PB169823BSD		SDG No.:	Q3192	
Lab Sample ID:	PB169823BSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.02 Units:	g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069856.D	1	09/25/25	09/26/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.08		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	4.42		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	7.44		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	10.2		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	16.7		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.9		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169823BSD	Acq On:	26 Sep 2025 14:25
Client Sample ID:	PB169823BSD	Operator:	YP/AJ
Data file:	FC069856.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.300	6.593	10184115	76.272	300	ug/ml
Aliphatic C12-C16	6.594	9.993	10403804	66.404	200	ug/ml
Aliphatic C16-C21	9.994	13.360	20042927	111.629	300	ug/ml
Aliphatic C21-C28	13.361	17.023	27684873	153.004	400	ug/ml
Aliphatic C28-C40	17.024	21.984	32219733	250.392	600	ug/ml
Aliphatic EPH	3.300	21.984	100535452	657.703		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.096	13.096	6307554	39.94		ug/ml
Aliphatic C9-C28	3.300	17.023	68315719	407.309	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069856.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 14:25
Operator : YP/AJ
Sample : PB169823BSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169823BSD

Integration File: autoint1.e
Quant Time: Sep 27 06:08:36 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...	13.096	6307554	39.942 ug/ml
Spiked Amount	50.000		Recovery =	79.88%
	Target Compounds			
1) T	n-Nonane (C9)	3.399	2649593	20.669 ug/ml
2) T	n-Decane (C10)	4.471	3372741	25.382 ug/ml
4) T	n-Dodecane (C12)	6.493	4161781	29.834 ug/ml
6) T	n-Tetradecane (C14)	8.291	4844892	32.665 ug/ml
7) T	n-Hexadecane (C16)	9.895	5558912	33.685 ug/ml
8) T	n-Octadecane (C18)	11.339	6295117	35.322 ug/ml
10) T	n-Eicosane (C20)	12.650	6917461	38.406 ug/ml
11) T	n-Heneicosane (C21)	13.262	6830349	37.880 ug/ml
13) T	n-Docosane (C22)	13.850	6936672	38.182 ug/ml
14) T	n-Tetracosane (C24)	14.954	7049461	38.312 ug/ml
15) T	n-Hexacosane (C26)	15.976	6945673	38.255 ug/ml
16) T	n-Octacosane (C28)	16.927	6753067	38.255 ug/ml
17) T	n-Tricontane (C30)	17.815	6625537	37.854 ug/ml
18) T	n-Dotriacontane (C32)	18.648	6268333	38.745 ug/ml
19) T	n-Tetratriacontane (C34)	19.431	5827356	41.698 ug/ml
20) T	n-Hexatriacontane (C36)	20.172	5068778	44.896 ug/ml
21) T	n-Octatriacontane (C38)	20.933	4508780	46.739 ug/ml
22) T	n-Tetracontane (C40)	21.892	3920949	45.525 ug/ml

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

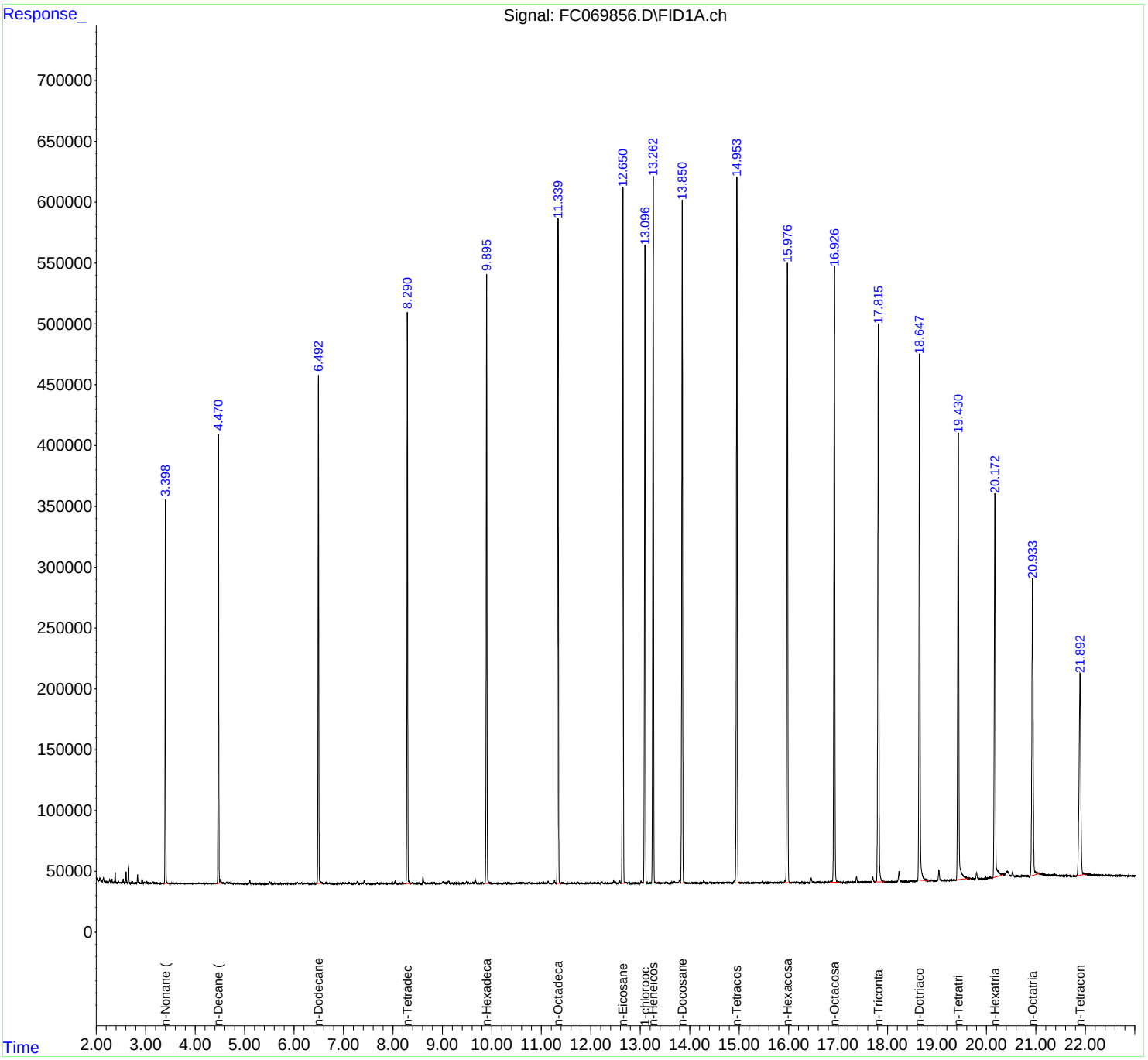
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069856.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 14:25
Operator : YP/AJ
Sample : PB169823BSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169823BSD

Integration File: autoint1.e
Quant Time: Sep 27 06:08:36 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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069856.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 14:25
Sample : PB169823BSD
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	3.399	3.349	3.460	BB	315532	2649593	37.59%	2.480%
2	4.471	4.415	4.501	BV	369318	3372741	47.84%	3.157%
3	6.493	6.432	6.567	BB	416760	4161781	59.04%	3.895%
4	8.291	8.224	8.362	BV	469037	4844892	68.73%	4.535%
5	9.895	9.847	9.949	BB	502516	5558912	78.86%	5.203%
6	11.339	11.289	11.395	VB	545561	6295117	89.30%	5.892%
7	12.650	12.607	12.699	PV	573876	6917461	98.13%	6.474%
8	13.096	13.049	13.157	BB	520932	6307554	89.48%	5.904%
9	13.262	13.200	13.320	BB	580621	6830349	96.89%	6.393%
10	13.850	13.811	13.917	VB	563418	6936672	98.40%	6.492%
11	14.954	14.916	15.014	VB	580501	7049461	100.00%	6.598%
12	15.976	15.879	16.044	BB	509587	6945673	98.53%	6.501%
13	16.927	16.830	17.015	BB	507547	6753067	95.80%	6.321%
14	17.815	17.749	17.945	BB	460208	6625537	93.99%	6.201%
15	18.648	18.610	18.824	BB	431621	6268333	88.92%	5.867%
16	19.431	19.350	19.635	BB	367297	5827356	82.66%	5.454%
17	20.172	20.120	20.342	BB	316104	5068778	71.90%	4.744%
18	20.933	20.880	21.067	BB	243936	4508780	63.96%	4.220%
19	21.892	21.792	22.005	BB	165984	3920949	55.62%	3.670%

Sum of corrected areas: 106843004

Aliphatic EPH 092325.M Sat Sep 27 06:43:17 2025

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

Report of Analysis

Client:	G Environmental		Date Collected:		
Project:	TGP		Date Received:		
Client Sample ID:	PB169823BSD		SDG No.:	Q3192	
Lab Sample ID:	PB169823BSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.02 Units:	g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049786.D	1	09/25/25	10/01/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.55		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	7.39		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	15.1		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	25.4		1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	39.3		40 - 140	79%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	39.1		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	44.3		40 - 140	89%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB169823BSD	Acq On:	01 Oct 2025 16:25
Client Sample ID:	PB169823BSD	Operator:	YP/AJ
Data file:	FD049786.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.388	6.131	7928705	68.318	200	ug/ml
Aromatic C12-C16	6.132	8.760	15080741	110.997	300	ug/ml
Aromatic C16-C21	8.761	13.050	30694005	226.073	500	ug/ml
Aromatic C21-C36	13.051	18.471	45082207	381.013	800	ug/ml
Aromatic EPH	4.388	18.471	98785658	786.401		ug/ml
2-Bromonaphthalene (SURR)	7.697	7.697	4417663	39.28		ug/ml
2-Flurobiphenyl (SURR)	8.561	8.561	3137864	39.09		ug/ml
ortho-Terphenyl (SURR)	11.610	11.610	6268340	44.31		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049786.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 16:25
Operator : YP/AJ
Sample : PB169823BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB169823BSD

Integration File: autoint1.e
Quant Time: Oct 02 10:16:32 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	4417663	39.281 ug/ml
Spiked Amount	50.000		Recovery =	78.56%
6) S	2-Flurobiphenyl (SURR)	8.561	3137864	39.091 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	78.18%
11) S	ortho-Terphenyl (SURR)	11.610	6268340	44.305 ug/ml
Spiked Amount	50.000		Recovery =	88.61%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.488	3552861	32.972 ug/ml
2) T	Naphthalene (C11.7)	6.031	4375844	35.187 ug/ml
3) T	2-Methylnaphthalene (...	7.086	4378394	33.594 ug/ml
5) T	Acenaphthylene (C15.06)	8.365	5314035	38.330 ug/ml
7) T	Acenaphthene (C15.5)	8.662	5388312	38.870 ug/ml
8) T	Flouorene (C16.55)	9.444	5808457	41.874 ug/ml
9) T	Phenanthrene (C19.36)	10.843	6194585	44.468 ug/ml
10) T	Anthracene (C19.43)	10.918	5886698	44.582 ug/ml
12) T	Fluoranthene (C21.85)	12.658	6385206	47.414 ug/ml
13) T	Pyrene (C20.8)	12.957	6419059	48.255 ug/ml
14) T	Benzo[a]anthracene (C...	14.830	5902706	49.360 ug/ml
15) T	Chrysene (C27.41)	14.874	6453825	53.051 ug/ml
16) T	benzo[b]fluoranthene ...	16.381	5692843	47.492 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.416	5615788	49.840 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.761	5478067	46.683 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.128	5659592	52.022 ug/ml
20) T	Dibenz[a,h]anthracene...	18.167	5274778	46.291 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.384	5004608	43.011 ug/ml

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

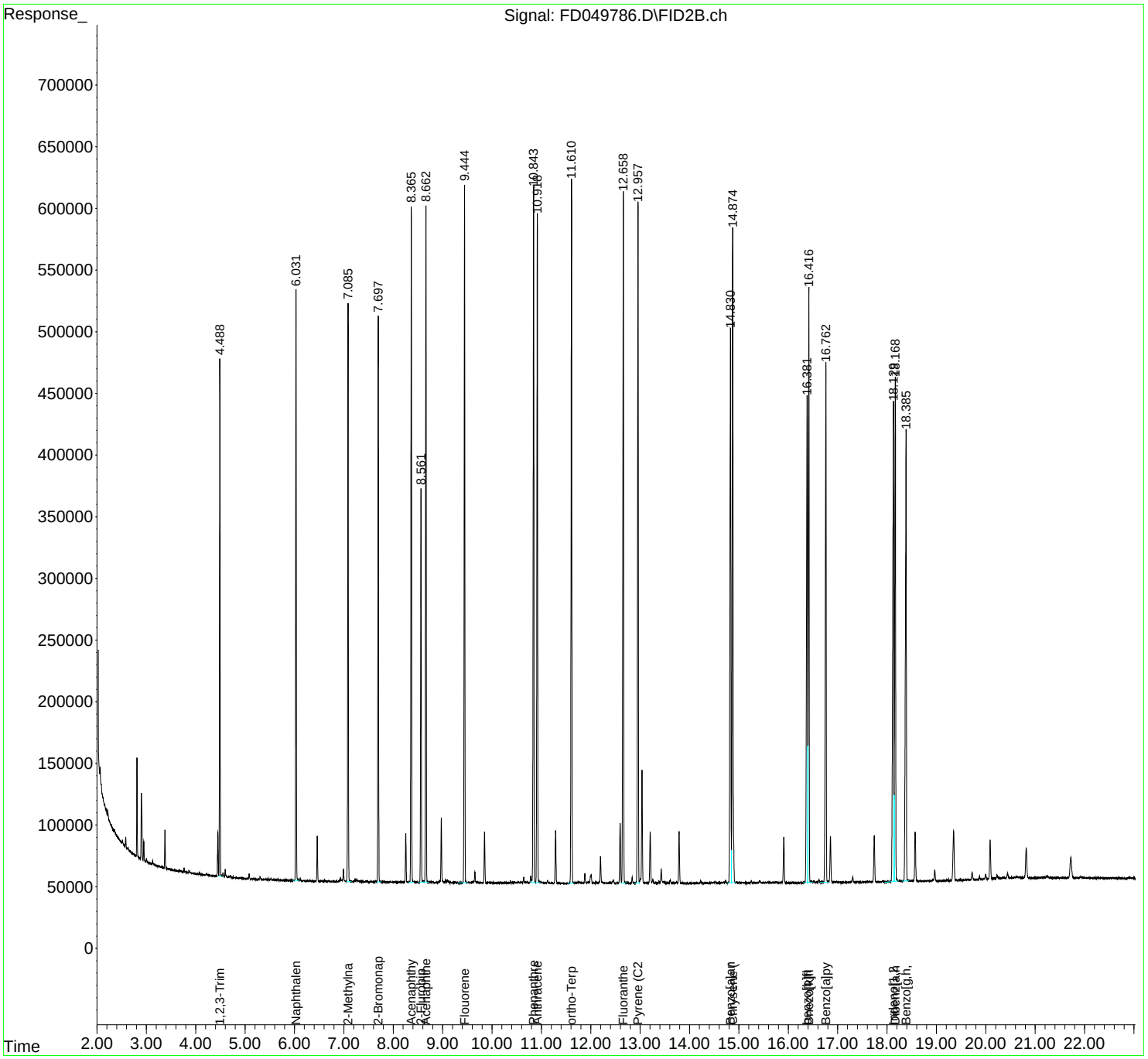
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049786.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 16:25
Operator : YP/AJ
Sample : PB169823BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB169823BSD

Integration File: autoint1.e
Quant Time: Oct 02 10:16:32 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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049786.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 16:25
Sample : PB169823BSD
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	4.488	4.466	4.535	VV	416351	3552861	55.05%	3.155%
2	6.031	5.971	6.101	BB	479474	4375844	67.80%	3.886%
3	7.086	7.048	7.158	VB	461328	4378394	67.84%	3.888%
4	7.697	7.665	7.755	VB	459887	4417663	68.45%	3.923%
5	8.365	8.315	8.423	BB	545931	5314035	82.34%	4.719%
6	8.561	8.511	8.628	BB	318802	3137864	48.62%	2.786%
7	8.662	8.628	8.725	BB	546829	5388312	83.49%	4.785%
8	9.444	9.315	9.508	BB	567482	5808457	90.00%	5.158%
9	10.843	10.798	10.885	VV	558293	6194585	95.98%	5.501%
10	10.918	10.885	10.981	VB	543236	5886698	91.21%	5.228%
11	11.610	11.535	11.665	BV	575229	6268340	97.13%	5.566%
12	12.658	12.621	12.725	VB	559040	6385206	98.94%	5.670%
13	12.957	12.878	12.985	BV	558776	6419059	99.46%	5.700%
14	14.830	14.761	14.849	BV	452437	5902706	91.46%	5.242%
15	14.874	14.849	14.928	VB	533907	6453825	100.00%	5.731%
16	16.381	16.298	16.396	BV	396030	5692843	88.21%	5.055%
17	16.416	16.396	16.495	VB	475353	5615788	87.01%	4.987%
18	16.761	16.655	16.808	BV	418539	5478067	84.88%	4.865%
19	18.128	17.951	18.144	BV	385261	5659592	87.69%	5.026%
20	18.167	18.144	18.238	VB	409477	5274778	81.73%	4.684%
21	18.384	18.305	18.448	BB	365528	5004608	77.54%	4.444%

Sum of corrected areas: 112609525

Aromatic EPH 090425.M Thu Oct 02 10:24:15 2025

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

Report of Analysis

Client:	G Environmental		Date Collected:	09/23/25	
Project:	TGP		Date Received:	09/23/25	
Client Sample ID:	EME-TS14-01MS		SDG No.:	Q3192	
Lab Sample ID:	Q3178-02MS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	71.4	
Sample Wt/Vol:	30.04	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049768.D	1	09/25/25	09/26/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	8.98		0.17	0.93	mg/kg
Aromatic C12-C16	Aromatic C12-C16	15.5		0.32	1.40	mg/kg
Aromatic C16-C21	Aromatic C16-C21	34.3		0.56	2.33	mg/kg
Aromatic C21-C36	Aromatic C21-C36	53.0		1.66	3.73	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	41.8		40 - 140	84%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	33.1		40 - 140	66%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.4		40 - 140	67%	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:	Q3178-02MS	Acq On:	26 Sep 2025 11:22
Client Sample ID:	EME-TS14-01MS	Operator:	YP/AJ
Data file:	FD049768.D	Misc:	
Instrument:	FID_D	ALS Vial:	58
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.389	6.132	11175539	96.294	200	ug/ml
Aromatic C12-C16	6.133	8.761	22542987	165.921	300	ug/ml
Aromatic C16-C21	8.762	13.054	49938394	367.815	500	ug/ml
Aromatic C21-C36	13.055	18.477	67214486	568.065	800	ug/ml
Aromatic EPH	4.389	18.477	150871406	1200		ug/ml
2-Bromonaphthalene (SURR)	7.699	7.699	4703481	41.82		ug/ml
2-Flurobiphenyl (SURR)	8.564	8.564	2653811	33.06		ug/ml
ortho-Terphenyl (SURR)	11.612	11.612	4723031	33.38		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049768.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 11:22
Operator : YP/AJ
Sample : Q3178-01MS
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MS

Integration File: autoint1.e
Quant Time: Sep 29 00:21:41 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...	7.699	4703481	41.822 ug/ml
Spiked Amount 50.000		Recovery =	83.64%
6) S 2-Flurobiphenyl (SURR)	8.564	2653811	33.061 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	66.12%
11) S ortho-Terphenyl (SURR)	11.612	4723031	33.383 ug/ml
Spiked Amount 50.000		Recovery =	66.77%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.491	4146400	38.481 ug/ml
2) T Naphthalene (C11.7)	6.033	5486104	44.115 ug/ml
3) T 2-Methylnaphthalene (...	7.088	5521013	42.361 ug/ml
5) T Acenaphthylene (C15.06)	8.369	7244944	52.257 ug/ml
7) T Acenaphthene (C15.5)	8.666	6849209	49.409 ug/ml
8) T Flouorene (C16.55)	9.448	7823785	56.402 ug/ml
9) T Phenanthrene (C19.36)	10.848	8126128	58.334 ug/ml
10) T Anthracene (C19.43)	10.924	7876603	59.653 ug/ml
12) T Fluoranthene (C21.85)	12.665	8157150	60.571 ug/ml
13) T Pyrene (C20.8)	12.963	8137430	61.173 ug/ml
14) T Benzo[a]anthracene (C...	14.836	7515317	62.845 ug/ml
15) T Chrysene (C27.41)	14.883	8567196	70.423 ug/ml
16) T benzo[b]fluoranthene ...	16.390	7167801	59.797 ug/ml
17) T Bnezo[k]fluoranthene ...	16.426	6939555	61.589 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.771	6852663	58.397 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.138	7599233	69.852 ug/ml
20) T Dibenz[a,h]anthracene...	18.177	6630988	58.192 ug/ml
21) T Benzo[g,h,i]perylene ...	18.395	6408733	55.078 ug/ml

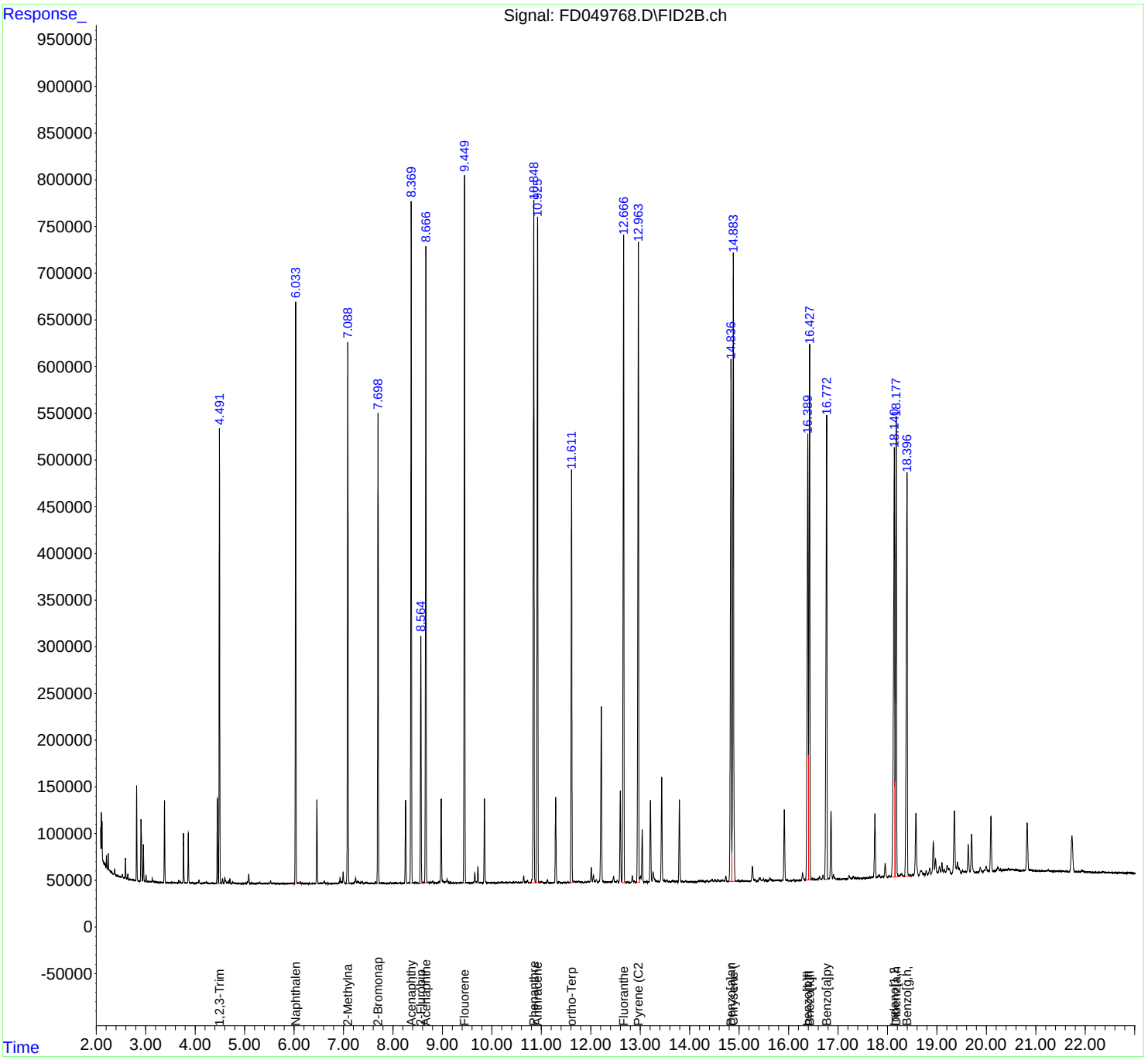
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049768.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 11:22
Operator : YP/AJ
Sample : Q3178-01MS
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MS

Integration File: autoint1.e
Quant Time: Sep 29 00:21:41 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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049768.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 11:22
Sample : Q3178-01MS
Misc :
ALS Vial : 58 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	4.269	4.252	4.284	BV	199	1186	0.01%	0.001%
2	4.293	4.284	4.303	PV	237	1798	0.02%	0.001%
3	4.309	4.303	4.320	VV	257	1708	0.02%	0.001%
4	4.342	4.320	4.372	VV	1116	12290	0.14%	0.008%
5	4.379	4.372	4.385	PV	253	1145	0.01%	0.001%
6	4.402	4.385	4.418	VV	481	5354	0.06%	0.003%
7	4.450	4.426	4.469	VV	90544	781522	9.11%	0.479%
8	4.491	4.469	4.539	VV	486410	4154408	48.40%	2.549%
9	4.554	4.539	4.580	VV	5289	53735	0.63%	0.033%
10	4.599	4.580	4.611	VV	7028	65924	0.77%	0.040%
11	4.618	4.611	4.640	VV	3472	34418	0.40%	0.021%
12	4.652	4.640	4.661	VV	1285	12125	0.14%	0.007%
13	4.674	4.661	4.687	VV	3173	28436	0.33%	0.017%
14	4.703	4.687	4.727	VV	4932	45749	0.53%	0.028%
15	4.758	4.739	4.772	VV	2537	22215	0.26%	0.014%
16	4.781	4.772	4.797	VV	1111	10814	0.13%	0.007%
17	4.802	4.797	4.806	VV	440	1888	0.02%	0.001%
18	4.819	4.806	4.834	VV	564	6779	0.08%	0.004%
19	4.839	4.834	4.852	VV	139	1180	0.01%	0.001%
20	4.862	4.852	4.870	VV	277	1957	0.02%	0.001%
21	4.874	4.870	4.882	VV	396	2069	0.02%	0.001%
22	4.888	4.882	4.922	VV	416	5099	0.06%	0.003%
23	4.946	4.932	4.952	PV	267	2040	0.02%	0.001%
24	4.984	4.952	4.994	VV	704	9170	0.11%	0.006%
25	5.007	4.994	5.026	VV	678	8137	0.09%	0.005%

26	5.031	5.026	5.036	VV	272	1331	0.02%	0.001%
27	5.057	5.036	5.066	VV	1907	18053	0.21%	0.011%
28	5.083	5.066	5.118	VV	10281	109472	1.28%	0.067%
29	5.141	5.118	5.164	VV	1918	18872	0.22%	0.012%
30	5.187	5.173	5.207	PV	416	4186	0.05%	0.003%
31	5.214	5.207	5.227	VV	269	1652	0.02%	0.001%
32	5.249	5.227	5.253	VV	268	2371	0.03%	0.001%
33	5.276	5.253	5.284	VV	588	7133	0.08%	0.004%
34	5.304	5.284	5.339	VV	1742	23997	0.28%	0.015%
35	5.348	5.339	5.385	VV	245	4970	0.06%	0.003%
36	5.388	5.385	5.425	VV	230	4361	0.05%	0.003%
37	5.450	5.425	5.470	VV	511	8724	0.10%	0.005%
38	5.484	5.470	5.499	VV	1324	13235	0.15%	0.008%
39	5.527	5.499	5.552	VV	3322	39760	0.46%	0.024%
40	5.560	5.552	5.566	VV	405	3001	0.03%	0.002%
41	5.582	5.566	5.638	VV	1100	16458	0.19%	0.010%
42	5.652	5.638	5.658	VV	486	4436	0.05%	0.003%
43	5.664	5.658	5.667	VV	522	2197	0.03%	0.001%
44	5.671	5.667	5.695	VV	609	5127	0.06%	0.003%
45	5.725	5.695	5.752	VV	529	10246	0.12%	0.006%
46	5.777	5.752	5.808	VV	671	11759	0.14%	0.007%
47	5.812	5.808	5.818	VV	279	1418	0.02%	0.001%
48	5.843	5.818	5.865	VV	486	8476	0.10%	0.005%
49	5.910	5.865	5.917	VV	384	8097	0.09%	0.005%
50	5.932	5.917	5.962	VV	471	10009	0.12%	0.006%
51	5.971	5.962	6.001	VV	637	11187	0.13%	0.007%
52	6.033	6.001	6.069	VV	622831	5518204	64.29%	3.385%
53	6.079	6.069	6.107	VV	1596	21697	0.25%	0.013%
54	6.123	6.107	6.159	VV	2258	32091	0.37%	0.020%
55	6.164	6.159	6.174	VV	604	4398	0.05%	0.003%
56	6.182	6.174	6.211	VV	751	10875	0.13%	0.007%
57	6.226	6.211	6.231	VV	468	4579	0.05%	0.003%
58	6.257	6.231	6.291	VV	956	20281	0.24%	0.012%
59	6.309	6.291	6.334	VV	948	11123	0.13%	0.007%
60	6.371	6.342	6.389	VV	560	9036	0.11%	0.006%
61	6.402	6.389	6.411	VV	458	5340	0.06%	0.003%
62	6.420	6.411	6.435	VV	457	6034	0.07%	0.004%
63	6.463	6.435	6.492	VV	90118	853261	9.94%	0.523%
64	6.498	6.492	6.508	VV	668	4893	0.06%	0.003%
65	6.521	6.508	6.527	VV	570	5858	0.07%	0.004%
66	6.548	6.527	6.568	VV	1611	22282	0.26%	0.014%
67	6.583	6.568	6.595	VV	1395	14025	0.16%	0.009%
68	6.613	6.595	6.633	VV	3027	34145	0.40%	0.021%
69	6.646	6.633	6.665	VV	929	11021	0.13%	0.007%

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70	6.685	6.665	6.720	VV	1614	19060	0.22%	0.012%
71	6.750	6.720	6.766	VV	429	6935	0.08%	0.004%
72	6.789	6.766	6.805	VV	672	9813	0.11%	0.006%
73	6.838	6.805	6.870	VV	871	17520	0.20%	0.011%
74	6.907	6.877	6.916	VV	1796	18514	0.22%	0.011%
75	6.931	6.916	6.947	VV	6719	66340	0.77%	0.041%
76	6.958	6.947	6.972	VV	2200	24831	0.29%	0.015%
77	6.993	6.972	7.049	VV	12812	157563	1.84%	0.097%
78	7.088	7.049	7.152	VV	580131	5532742	64.46%	3.394%
79	7.162	7.152	7.182	VV	570	8410	0.10%	0.005%
80	7.192	7.182	7.205	VV	745	7404	0.09%	0.005%
81	7.223	7.205	7.230	VV	2270	22016	0.26%	0.014%
82	7.246	7.230	7.265	VV	6166	72525	0.85%	0.044%
83	7.279	7.265	7.292	VV	2704	31684	0.37%	0.019%
84	7.304	7.292	7.339	VV	2266	35846	0.42%	0.022%
85	7.354	7.339	7.368	VV	2249	24542	0.29%	0.015%
86	7.383	7.368	7.405	VV	2204	24850	0.29%	0.015%
87	7.450	7.405	7.464	PV	1345	25756	0.30%	0.016%
88	7.477	7.464	7.504	VV	1504	18098	0.21%	0.011%
89	7.560	7.504	7.578	VV	848	18590	0.22%	0.011%
90	7.588	7.578	7.591	VV	453	2729	0.03%	0.002%
91	7.602	7.591	7.629	VV	625	11018	0.13%	0.007%
92	7.648	7.629	7.668	VV	2088	26338	0.31%	0.016%
93	7.699	7.668	7.755	VV	503689	4722221	55.02%	2.897%
94	7.765	7.755	7.782	VV	1147	11336	0.13%	0.007%
95	7.793	7.782	7.829	VV	780	17976	0.21%	0.011%
96	7.835	7.829	7.863	VV	638	8017	0.09%	0.005%
97	7.874	7.863	7.896	VV	512	7700	0.09%	0.005%
98	7.907	7.896	7.934	VV	436	6721	0.08%	0.004%
99	7.952	7.934	7.977	VV	1807	22351	0.26%	0.014%
100	7.983	7.977	7.989	VV	391	2692	0.03%	0.002%
101	8.007	7.989	8.022	VV	619	9615	0.11%	0.006%
102	8.045	8.022	8.068	VV	819	15865	0.18%	0.010%
103	8.076	8.068	8.097	VV	683	9473	0.11%	0.006%
104	8.134	8.097	8.141	VV	784	16225	0.19%	0.010%
105	8.155	8.141	8.180	VV	784	13337	0.16%	0.008%
106	8.188	8.180	8.193	VV	436	3232	0.04%	0.002%
107	8.205	8.193	8.225	VV	573	8192	0.10%	0.005%
108	8.256	8.225	8.284	VV	89437	909967	10.60%	0.558%
109	8.287	8.284	8.297	VV	687	4723	0.06%	0.003%
110	8.316	8.297	8.331	VV	1436	17914	0.21%	0.011%
111	8.369	8.331	8.427	VV	729226	7264214	84.64%	4.456%
112	8.448	8.427	8.471	VV	1159	19726	0.23%	0.012%

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113	8.489	8.471	8.515	VV	1439	20508	0.24%	0.013%
114	8.522	8.515	8.527	VV	304	1936	0.02%	0.001%
115	8.564	8.527	8.593	VV	265627	2670217	31.11%	1.638%
116	8.615	8.593	8.633	VV	1512	28323	0.33%	0.017%
117	8.666	8.633	8.704	VV	680414	6887150	80.24%	4.225%
118	8.718	8.704	8.730	VV	1457	20059	0.23%	0.012%
119	8.745	8.730	8.755	VV	1240	15460	0.18%	0.009%
120	8.765	8.755	8.777	VV	1226	12696	0.15%	0.008%
121	8.794	8.777	8.803	VV	1743	22335	0.26%	0.014%
122	8.811	8.803	8.838	VV	1929	23353	0.27%	0.014%
123	8.858	8.838	8.887	VV	986	18101	0.21%	0.011%
124	8.907	8.887	8.916	VV	1077	12777	0.15%	0.008%
125	8.933	8.916	8.950	VV	1932	29897	0.35%	0.018%
126	8.976	8.950	8.999	VV	90772	901345	10.50%	0.553%
127	9.010	8.999	9.027	VV	2443	35761	0.42%	0.022%
128	9.034	9.027	9.045	VV	1471	14014	0.16%	0.009%
129	9.059	9.045	9.066	VV	1625	18808	0.22%	0.012%
130	9.094	9.066	9.119	VV	4610	76757	0.89%	0.047%
131	9.127	9.119	9.152	VV	1174	15214	0.18%	0.009%
132	9.165	9.152	9.195	VV	1304	19560	0.23%	0.012%
133	9.213	9.195	9.245	VV	915	14085	0.16%	0.009%
134	9.268	9.245	9.275	VV	620	7225	0.08%	0.004%
135	9.296	9.275	9.329	VV	923	18267	0.21%	0.011%
136	9.357	9.329	9.374	VV	914	15804	0.18%	0.010%
137	9.377	9.374	9.395	VV	987	8995	0.10%	0.006%
138	9.401	9.395	9.414	VV	608	5652	0.07%	0.003%
139	9.449	9.414	9.484	VV	758857	7840430	91.35%	4.810%
140	9.498	9.484	9.507	VV	534	6810	0.08%	0.004%
141	9.514	9.507	9.525	VV	617	5949	0.07%	0.004%
142	9.539	9.525	9.561	VV	686	9679	0.11%	0.006%
143	9.582	9.561	9.605	VV	1219	18059	0.21%	0.011%
144	9.623	9.605	9.636	VV	1577	20105	0.23%	0.012%
145	9.656	9.636	9.677	VV	11603	124105	1.45%	0.076%
146	9.690	9.677	9.700	VV	1552	16589	0.19%	0.010%
147	9.719	9.700	9.742	VV	18262	184984	2.16%	0.113%
148	9.761	9.742	9.772	VV	690	9479	0.11%	0.006%
149	9.777	9.772	9.782	VV	541	2655	0.03%	0.002%
150	9.787	9.782	9.820	VV	542	6649	0.08%	0.004%
151	9.851	9.820	9.900	VV	90909	993139	11.57%	0.609%
152	9.905	9.900	9.912	VV	457	2409	0.03%	0.001%
153	9.928	9.912	9.936	VV	791	9475	0.11%	0.006%
154	9.939	9.936	9.978	VV	680	12278	0.14%	0.008%
155	10.003	9.978	10.036	VV	470	14007	0.16%	0.009%

156	10.048	10.036	10.064	VV	725	7890	0.09%	0.005%
157	10.085	10.064	10.104	VV	316	4895	0.06%	0.003%
158	10.128	10.104	10.145	VV	950	13187	0.15%	0.008%
159	10.189	10.145	10.210	VV	1729	33752	0.39%	0.021%
160	10.247	10.210	10.261	VV	975	22794	0.27%	0.014%
161	10.285	10.261	10.300	VV	1077	18955	0.22%	0.012%
162	10.317	10.300	10.342	VV	856	17798	0.21%	0.011%
163	10.371	10.342	10.400	VV	1431	29353	0.34%	0.018%
164	10.407	10.400	10.416	VV	400	3752	0.04%	0.002%
165	10.436	10.416	10.450	VV	1257	17400	0.20%	0.011%
166	10.456	10.450	10.469	VV	1001	10171	0.12%	0.006%
167	10.489	10.469	10.507	VV	1462	23589	0.27%	0.014%
168	10.538	10.507	10.556	VV	1046	22132	0.26%	0.014%
169	10.587	10.556	10.598	VV	1096	21212	0.25%	0.013%
170	10.608	10.598	10.623	VV	988	13253	0.15%	0.008%
171	10.645	10.623	10.667	VV	7877	91952	1.07%	0.056%
172	10.682	10.667	10.697	VV	1311	19401	0.23%	0.012%
173	10.721	10.697	10.765	VV	2935	52270	0.61%	0.032%
174	10.809	10.765	10.814	VV	3773	44000	0.51%	0.027%
175	10.848	10.814	10.887	VV	732262	8120008	94.61%	4.981%
176	10.925	10.887	10.974	VV	715554	7905254	92.11%	4.849%
177	10.994	10.974	11.009	VV	1420	22125	0.26%	0.014%
178	11.016	11.009	11.035	VV	1448	15872	0.18%	0.010%
179	11.040	11.035	11.067	VV	571	6173	0.07%	0.004%
180	11.091	11.067	11.104	VV	449	5683	0.07%	0.003%
181	11.126	11.104	11.170	VV	3730	41817	0.49%	0.026%
182	11.179	11.170	11.196	VV	159	1450	0.02%	0.001%
183	11.223	11.196	11.244	PV	471	7212	0.08%	0.004%
184	11.291	11.244	11.340	VV	92004	1050483	12.24%	0.644%
185	11.362	11.340	11.424	VV	1528	30233	0.35%	0.019%
186	11.449	11.424	11.467	VV	668	7576	0.09%	0.005%
187	11.483	11.467	11.504	VV	768	8167	0.10%	0.005%
188	11.542	11.504	11.571	PV	1125	21541	0.25%	0.013%
189	11.612	11.571	11.637	VV	442095	4730720	55.12%	2.902%
190	11.643	11.637	11.659	VV	1919	19707	0.23%	0.012%
191	11.675	11.659	11.692	VV	1804	26775	0.31%	0.016%
192	11.708	11.692	11.725	VV	1827	25792	0.30%	0.016%
193	11.757	11.725	11.802	VV	2116	57710	0.67%	0.035%
194	11.818	11.802	11.856	VV	1247	22198	0.26%	0.014%
195	11.860	11.856	11.864	VV	255	1149	0.01%	0.001%
196	11.883	11.864	11.902	VV	1510	19868	0.23%	0.012%
197	11.927	11.902	11.931	VV	932	12693	0.15%	0.008%
198	11.955	11.931	11.974	VV	1433	28905	0.34%	0.018%
199	12.011	11.974	12.031	VV	16257	217169	2.53%	0.133%

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200	12.053	12.031	12.095	VV	8338	138031	1.61%	0.085%
201	12.113	12.095	12.150	VV	3781	59681	0.70%	0.037%
202	12.214	12.150	12.310	VV	188523	2505571	29.19%	1.537%
203	12.318	12.310	12.323	VV	753	5430	0.06%	0.003%
204	12.335	12.323	12.354	VV	767	11868	0.14%	0.007%
205	12.366	12.354	12.382	VV	835	12740	0.15%	0.008%
206	12.388	12.382	12.404	VV	940	9326	0.11%	0.006%
207	12.461	12.404	12.482	VV	6759	112295	1.31%	0.069%
208	12.489	12.482	12.512	VV	1068	14637	0.17%	0.009%
209	12.536	12.512	12.560	VV	2796	40882	0.48%	0.025%
210	12.598	12.560	12.625	VV	98593	1140641	13.29%	0.700%
211	12.665	12.625	12.717	VV	692696	8166685	95.15%	5.010%
212	12.743	12.717	12.752	VV	492	7522	0.09%	0.005%
213	12.758	12.752	12.781	VV	388	3467	0.04%	0.002%
214	12.795	12.781	12.802	VV	278	1949	0.02%	0.001%
215	12.841	12.802	12.864	PV	7210	91581	1.07%	0.056%
216	12.876	12.864	12.908	VV	1494	21638	0.25%	0.013%
217	12.964	12.908	12.986	VV	686082	8137635	94.81%	4.992%
218	13.007	12.986	13.019	VV	7043	104495	1.22%	0.064%
219	13.041	13.019	13.072	VV	56614	661557	7.71%	0.406%
220	13.084	13.072	13.094	VV	639	6583	0.08%	0.004%
221	13.097	13.094	13.101	VV	574	2021	0.02%	0.001%
222	13.104	13.101	13.110	VV	507	2454	0.03%	0.002%
223	13.130	13.110	13.151	VV	801	14756	0.17%	0.009%
224	13.160	13.151	13.175	VV	557	5215	0.06%	0.003%
225	13.208	13.175	13.239	VV	88012	1077307	12.55%	0.661%
226	13.263	13.239	13.322	VV	10870	223800	2.61%	0.137%
227	13.325	13.322	13.364	VV	1482	27385	0.32%	0.017%
228	13.372	13.364	13.387	VV	824	9384	0.11%	0.006%
229	13.436	13.387	13.522	VV	112913	1424927	16.60%	0.874%
230	13.542	13.522	13.572	VV	2600	45738	0.53%	0.028%
231	13.606	13.572	13.627	VV	839	21964	0.26%	0.013%
232	13.648	13.627	13.673	VV	1952	36383	0.42%	0.022%
233	13.686	13.673	13.704	VV	1150	17139	0.20%	0.011%
234	13.708	13.704	13.713	VV	643	3308	0.04%	0.002%
235	13.734	13.713	13.764	VV	1404	25511	0.30%	0.016%
236	13.794	13.764	13.839	VV	88333	1062907	12.38%	0.652%
237	13.853	13.839	13.893	VV	1011	15802	0.18%	0.010%
238	13.915	13.893	13.948	VV	1650	25371	0.30%	0.016%
239	13.960	13.948	13.984	VV	547	7311	0.09%	0.004%
240	14.010	13.984	14.015	VV	546	7658	0.09%	0.005%
241	14.036	14.015	14.062	VV	581	11048	0.13%	0.007%
242	14.078	14.062	14.106	VV	232	3514	0.04%	0.002%

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243	14.133	14.106	14.148	PV	315	4519	0.05%	0.003%
244	14.182	14.148	14.204	VV	1720	27553	0.32%	0.017%
245	14.228	14.204	14.249	VV	1853	31539	0.37%	0.019%
246	14.270	14.249	14.306	VV	1738	31296	0.36%	0.019%
247	14.310	14.306	14.332	VV	455	5228	0.06%	0.003%
248	14.351	14.332	14.380	VV	1877	27523	0.32%	0.017%
249	14.450	14.380	14.492	VV	2321	65878	0.77%	0.040%
250	14.514	14.492	14.539	VV	2638	40211	0.47%	0.025%
251	14.543	14.539	14.546	VV	601	2238	0.03%	0.001%
252	14.573	14.546	14.601	VV	2794	46166	0.54%	0.028%
253	14.612	14.601	14.625	VV	751	8938	0.10%	0.005%
254	14.664	14.625	14.688	VV	1673	40604	0.47%	0.025%
255	14.698	14.688	14.710	VV	909	11770	0.14%	0.007%
256	14.732	14.710	14.763	VV	6155	80210	0.93%	0.049%
257	14.768	14.763	14.784	VV	274	2042	0.02%	0.001%
258	14.837	14.784	14.855	VV	558689	7515083	87.56%	4.610%
259	14.883	14.855	14.927	VV	673851	8582767	100.00%	5.265%
260	14.934	14.927	14.970	VV	899	13998	0.16%	0.009%
261	14.989	14.970	15.009	VV	1954	23881	0.28%	0.015%
262	15.016	15.009	15.021	VV	268	1909	0.02%	0.001%
263	15.027	15.021	15.045	VV	313	2790	0.03%	0.002%
264	15.068	15.045	15.100	VV	1231	19461	0.23%	0.012%
265	15.124	15.100	15.149	VV	763	12079	0.14%	0.007%
266	15.167	15.149	15.180	VV	589	6835	0.08%	0.004%
267	15.184	15.180	15.197	VV	277	1731	0.02%	0.001%
268	15.270	15.209	15.305	VV	15669	253839	2.96%	0.156%
269	15.322	15.305	15.347	VV	2133	32422	0.38%	0.020%
270	15.375	15.347	15.380	VV	545	8361	0.10%	0.005%
271	15.410	15.380	15.422	VV	3254	49191	0.57%	0.030%
272	15.426	15.422	15.451	VV	2922	33295	0.39%	0.020%
273	15.495	15.451	15.516	VV	2394	47069	0.55%	0.029%
274	15.534	15.516	15.565	VV	1073	20739	0.24%	0.013%
275	15.582	15.565	15.594	VV	694	10066	0.12%	0.006%
276	15.625	15.594	15.647	VV	3041	50534	0.59%	0.031%
277	15.653	15.647	15.700	VV	1240	25870	0.30%	0.016%
278	15.735	15.700	15.753	VV	1070	22296	0.26%	0.014%
279	15.781	15.753	15.814	VV	1104	28715	0.33%	0.018%
280	15.818	15.814	15.835	VV	721	5868	0.07%	0.004%
281	15.850	15.835	15.855	VV	559	5066	0.06%	0.003%
282	15.874	15.855	15.883	VV	868	10916	0.13%	0.007%
283	15.915	15.883	15.953	VV	76587	995152	11.59%	0.610%
284	15.973	15.953	16.010	VV	1126	21303	0.25%	0.013%
285	16.028	16.010	16.040	VV	262	2837	0.03%	0.002%

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286	16.111	16.040	16.141	PV	1270	26135	0.30%	0.016%
287	16.166	16.141	16.172	VV	353	3758	0.04%	0.002%
288	16.184	16.172	16.189	VV	200	1715	0.02%	0.001%
289	16.196	16.189	16.207	VV	302	2255	0.03%	0.001%
290	16.213	16.207	16.219	VV	326	1744	0.02%	0.001%
291	16.251	16.219	16.255	VV	321	3984	0.05%	0.002%
292	16.283	16.255	16.338	VV	8028	135605	1.58%	0.083%
293	16.390	16.338	16.405	VV	477309	7144569	83.24%	4.383%
294	16.427	16.405	16.455	VV	574580	7000173	81.56%	4.294%
295	16.474	16.455	16.494	VV	1904	29267	0.34%	0.018%
296	16.514	16.494	16.547	VV	1368	27065	0.32%	0.017%
297	16.600	16.547	16.610	VV	1656	33295	0.39%	0.020%
298	16.628	16.610	16.657	VV	4166	58284	0.68%	0.036%
299	16.698	16.657	16.723	VV	5340	88990	1.04%	0.055%
300	16.772	16.723	16.810	VV	497866	6887929	80.25%	4.225%
301	16.860	16.810	16.890	VV	73282	1008299	11.75%	0.619%
302	16.910	16.890	16.957	VV	5175	93914	1.09%	0.058%
303	16.969	16.957	16.980	VV	516	5714	0.07%	0.004%
304	16.992	16.980	17.043	VV	510	12968	0.15%	0.008%
305	17.096	17.043	17.102	VV	431	6172	0.07%	0.004%
306	17.123	17.102	17.148	VV	557	10365	0.12%	0.006%
307	17.156	17.148	17.175	VV	218	2485	0.03%	0.002%
308	17.187	17.175	17.195	VV	304	1915	0.02%	0.001%
309	17.224	17.195	17.274	VV	3869	73763	0.86%	0.045%
310	17.310	17.274	17.334	VV	2936	49367	0.58%	0.030%
311	17.350	17.334	17.378	VV	1183	22688	0.26%	0.014%
312	17.399	17.378	17.442	VV	901	21840	0.25%	0.013%
313	17.458	17.442	17.467	VV	493	5020	0.06%	0.003%
314	17.475	17.467	17.497	VV	583	4817	0.06%	0.003%
315	17.533	17.497	17.549	PV	553	11219	0.13%	0.007%
316	17.558	17.549	17.563	VV	394	2680	0.03%	0.002%
317	17.574	17.563	17.579	VV	541	3825	0.04%	0.002%
318	17.587	17.579	17.592	VV	479	3339	0.04%	0.002%
319	17.605	17.592	17.614	VV	586	6013	0.07%	0.004%
320	17.639	17.614	17.659	VV	1196	20974	0.24%	0.013%
321	17.679	17.659	17.687	VV	887	12767	0.15%	0.008%
322	17.747	17.687	17.784	VV	68804	975125	11.36%	0.598%
323	17.835	17.784	17.861	VV	3024	72375	0.84%	0.044%
324	17.877	17.861	17.882	VV	824	8789	0.10%	0.005%
325	17.915	17.882	17.927	VV	1333	27073	0.32%	0.017%
326	17.954	17.927	18.007	VV	14882	237262	2.76%	0.146%
327	18.031	18.007	18.055	PV	1708	27881	0.32%	0.017%
328	18.139	18.055	18.153	VV	458052	7556327	88.04%	4.635%
329	18.178	18.153	18.235	VV	493369	6683117	77.87%	4.100%

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330	18.261	18.235	18.268	VV	1848	23335	0.27%	0.014%
331	18.285	18.268	18.341	VV	3096	59285	0.69%	0.036%
332	18.396	18.341	18.444	PV	433693	6405772	74.64%	3.930%
333	18.460	18.444	18.477	VV	490	5959	0.07%	0.004%

Sum of corrected areas: 163012690

Aromatic EPH 090425.M Mon Sep 29 00:59:21 2025

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

Report of Analysis

Client:	G Environmental		Date Collected:	09/23/25	
Project:	TGP		Date Received:	09/23/25	
Client Sample ID:	EME-TS14-01MSD		SDG No.:	Q3192	
Lab Sample ID:	Q3178-03MSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	71.4	
Sample Wt/Vol:	30.01	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049769.D	1	09/25/25	09/26/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	9.06		0.17	0.93	mg/kg
Aromatic C12-C16	Aromatic C12-C16	15.5		0.32	1.40	mg/kg
Aromatic C16-C21	Aromatic C16-C21	34.4		0.56	2.33	mg/kg
Aromatic C21-C36	Aromatic C21-C36	53.0		1.67	3.73	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	42.0		40 - 140	84%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	33.4		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.3		40 - 140	67%	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:	Q3178-03MSD	Acq On:	26 Sep 2025 12:07
Client Sample ID:	EME-TS14-01MSD	Operator:	YP/AJ
Data file:	FD049769.D	Misc:	
Instrument:	FID_D	ALS Vial:	59
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.389	6.132	11266947	97.082	200	ug/ml
Aromatic C12-C16	6.133	8.761	22549529	165.969	300	ug/ml
Aromatic C16-C21	8.762	13.054	50079639	368.855	500	ug/ml
Aromatic C21-C36	13.055	18.477	67124997	567.308	800	ug/ml
Aromatic EPH	4.389	18.477	151021112	1200		ug/ml
2-Flurobiphenyl (SURR)	8.564	8.564	2680542	33.39		ug/ml
ortho-Terphenyl (SURR)	11.611	11.611	4715597	33.33		ug/ml
2-Bromonaphthalene (SURR)	7.699	7.699	4722924	42		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049769.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 12:07
Operator : YP/AJ
Sample : Q3178-01MSD
Misc :
ALS Vial : 59 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MSD

Integration File: autoint1.e
Quant Time: Sep 29 00:22:06 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...	7.699	4722924	41.995 ug/ml
Spiked Amount 50.000		Recovery = 83.99%	
6) S 2-Flurobiphenyl (SURR)	8.564	2680542	33.394 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery = 66.79%	
11) S ortho-Terphenyl (SURR)	11.611	4715597	33.330 ug/ml
Spiked Amount 50.000		Recovery = 66.66%	
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.491	4176511	38.760 ug/ml
2) T Naphthalene (C11.7)	6.034	5498972	44.218 ug/ml
3) T 2-Methylnaphthalene (...	7.088	5532726	42.451 ug/ml
5) T Acenaphthylene (C15.06)	8.369	7257198	52.345 ug/ml
7) T Acenaphthene (C15.5)	8.666	6859399	49.482 ug/ml
8) T Flouorene (C16.55)	9.449	7855312	56.630 ug/ml
9) T Phenanthrene (C19.36)	10.848	8109854	58.217 ug/ml
10) T Anthracene (C19.43)	10.924	7861339	59.537 ug/ml
12) T Fluoranthene (C21.85)	12.665	8109657	60.218 ug/ml
13) T Pyrene (C20.8)	12.963	8082512	60.760 ug/ml
14) T Benzo[a]anthracene (C...	14.836	7474740	62.505 ug/ml
15) T Chrysene (C27.41)	14.882	8522353	70.055 ug/ml
16) T benzo[b]fluoranthene ...	16.390	7131225	59.492 ug/ml
17) T Bnezo[k]fluoranthene ...	16.426	6915785	61.378 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.771	6816443	58.088 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.139	7578145	69.658 ug/ml
20) T Dibenz[a,h]anthracene...	18.178	6618312	58.081 ug/ml
21) T Benzo[g,h,i]perylene ...	18.395	6387183	54.893 ug/ml

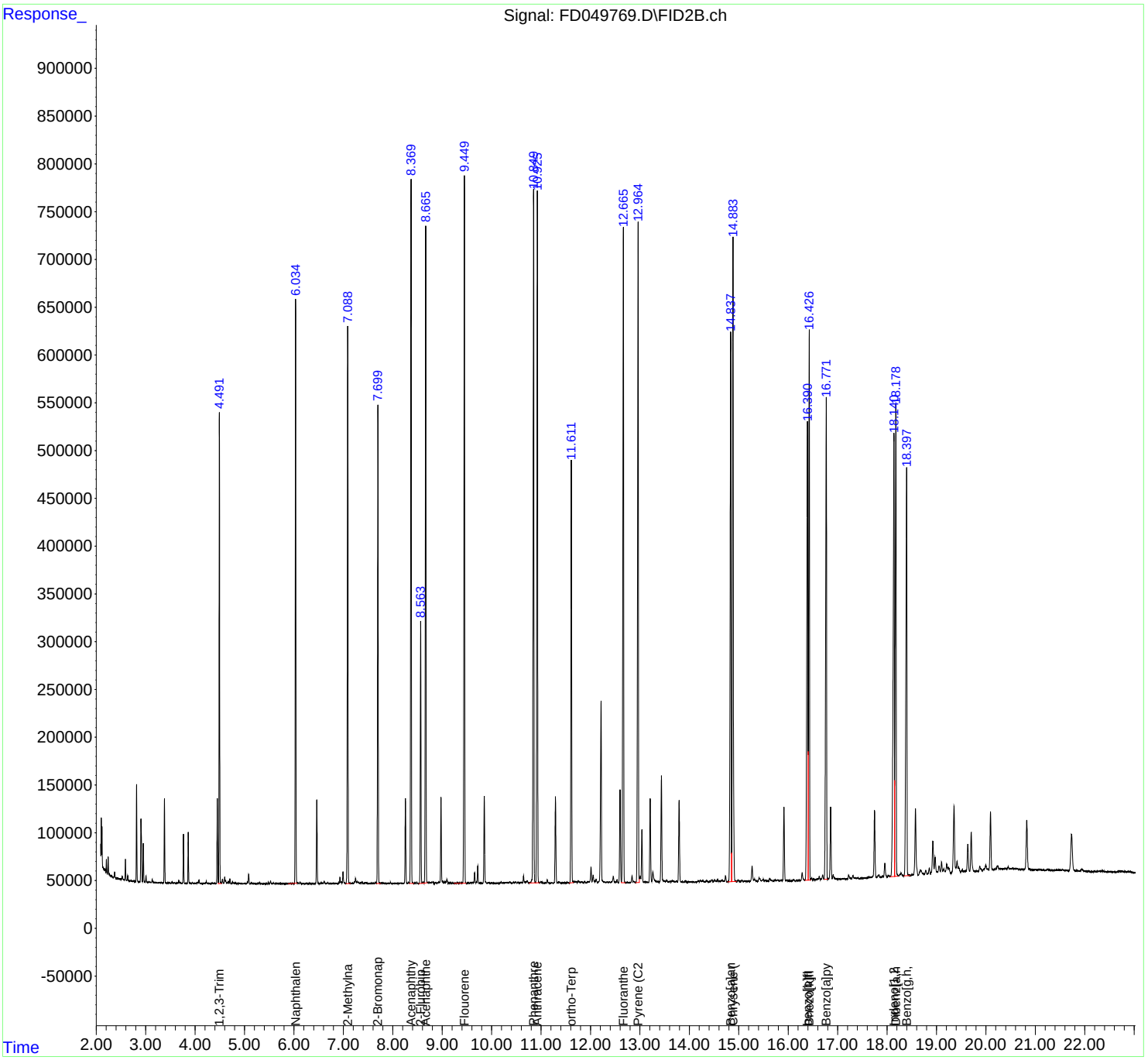
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049769.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 12:07
Operator : YP/AJ
Sample : Q3178-01MSD
Misc :
ALS Vial : 59 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MSD

Integration File: autoint1.e
Quant Time: Sep 29 00:22:06 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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049769.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 12:07
Sample : Q3178-01MSD
Misc :
ALS Vial : 59 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	4.316	4.296	4.325	PV	258	1875	0.02%	0.001%
2	4.342	4.325	4.371	VV	1023	12008	0.14%	0.007%
3	4.401	4.371	4.422	PV	792	9910	0.12%	0.006%
4	4.450	4.422	4.470	VV	89299	791162	9.25%	0.485%
5	4.491	4.470	4.517	VV	492887	4173703	48.80%	2.558%
6	4.523	4.517	4.537	VV	1253	10485	0.12%	0.006%
7	4.554	4.537	4.578	VV	5290	54566	0.64%	0.033%
8	4.599	4.578	4.611	VV	7025	66757	0.78%	0.041%
9	4.618	4.611	4.640	VV	3441	35513	0.42%	0.022%
10	4.653	4.640	4.661	VV	1354	12985	0.15%	0.008%
11	4.674	4.661	4.688	VV	2794	27715	0.32%	0.017%
12	4.704	4.688	4.725	VV	5283	49391	0.58%	0.030%
13	4.732	4.725	4.737	VV	265	1539	0.02%	0.001%
14	4.757	4.737	4.770	VV	2653	24332	0.28%	0.015%
15	4.781	4.770	4.806	VV	1349	16305	0.19%	0.010%
16	4.819	4.806	4.850	VV	797	12070	0.14%	0.007%
17	4.859	4.850	4.867	VV	390	2348	0.03%	0.001%
18	4.872	4.867	4.879	VV	231	1081	0.01%	0.001%
19	4.891	4.879	4.912	VV	653	8023	0.09%	0.005%
20	4.919	4.912	4.934	VV	249	2430	0.03%	0.001%
21	4.951	4.934	4.975	VV	492	5112	0.06%	0.003%
22	4.989	4.975	4.996	VV	548	4823	0.06%	0.003%
23	5.006	4.996	5.029	VV	581	7536	0.09%	0.005%
24	5.058	5.029	5.067	VV	1923	19489	0.23%	0.012%
25	5.083	5.067	5.116	VV	10252	108733	1.27%	0.067%

26	5.141	5.116	5.174	VV	1899	23150	0.27%	0.014%
27	5.194	5.174	5.219	VV	445	7382	0.09%	0.005%
28	5.223	5.219	5.234	VV	305	1696	0.02%	0.001%
29	5.244	5.234	5.252	PV	330	1783	0.02%	0.001%
30	5.273	5.252	5.286	VV	638	7846	0.09%	0.005%
31	5.303	5.286	5.332	VV	1870	22044	0.26%	0.014%
32	5.338	5.332	5.355	VV	382	2773	0.03%	0.002%
33	5.361	5.355	5.385	VV	169	1816	0.02%	0.001%
34	5.392	5.385	5.426	VV	304	4871	0.06%	0.003%
35	5.451	5.426	5.461	PV	510	6201	0.07%	0.004%
36	5.484	5.461	5.502	VV	1397	15132	0.18%	0.009%
37	5.527	5.502	5.551	VV	3279	36162	0.42%	0.022%
38	5.555	5.551	5.560	VV	318	1667	0.02%	0.001%
39	5.582	5.560	5.605	VV	1028	15061	0.18%	0.009%
40	5.619	5.605	5.638	VV	418	6387	0.07%	0.004%
41	5.667	5.638	5.705	VV	644	16641	0.19%	0.010%
42	5.721	5.705	5.727	VV	557	5260	0.06%	0.003%
43	5.730	5.727	5.749	VV	565	4499	0.05%	0.003%
44	5.755	5.749	5.761	VV	363	1984	0.02%	0.001%
45	5.777	5.761	5.800	VV	751	9829	0.11%	0.006%
46	5.808	5.800	5.823	VV	320	3839	0.04%	0.002%
47	5.834	5.823	5.860	VV	444	7508	0.09%	0.005%
48	5.866	5.860	5.879	VV	399	3618	0.04%	0.002%
49	5.912	5.879	5.926	VV	361	8265	0.10%	0.005%
50	5.937	5.926	5.950	VV	567	6445	0.08%	0.004%
51	5.958	5.950	5.962	VV	508	2744	0.03%	0.002%
52	5.973	5.962	5.986	VV	681	7828	0.09%	0.005%
53	5.990	5.986	6.002	VV	489	4080	0.05%	0.003%
54	6.034	6.002	6.067	VV	611836	5536010	64.73%	3.393%
55	6.082	6.067	6.104	VV	1477	19559	0.23%	0.012%
56	6.123	6.104	6.159	VV	2138	28859	0.34%	0.018%
57	6.188	6.159	6.214	VV	551	10071	0.12%	0.006%
58	6.254	6.221	6.291	VV	772	17697	0.21%	0.011%
59	6.313	6.291	6.336	VV	847	11027	0.13%	0.007%
60	6.354	6.336	6.365	VV	242	3104	0.04%	0.002%
61	6.376	6.365	6.380	VV	320	2465	0.03%	0.002%
62	6.386	6.380	6.390	VV	310	1827	0.02%	0.001%
63	6.395	6.390	6.412	VV	406	3232	0.04%	0.002%
64	6.417	6.412	6.420	VV	373	1371	0.02%	0.001%
65	6.425	6.420	6.435	VV	398	2883	0.03%	0.002%
66	6.463	6.435	6.491	VV	88121	855459	10.00%	0.524%
67	6.498	6.491	6.513	VV	557	5384	0.06%	0.003%
68	6.521	6.513	6.527	VV	494	3416	0.04%	0.002%
69	6.549	6.527	6.565	VV	1510	18882	0.22%	0.012%

70	6.582	6.565	6.597	VV	1294	14432	0.17%	0.009%
71	6.613	6.597	6.631	VV	3052	32965	0.39%	0.020%
72	6.648	6.631	6.662	VV	948	11641	0.14%	0.007%
73	6.685	6.662	6.709	VV	1684	20054	0.23%	0.012%
74	6.718	6.709	6.732	VV	350	3687	0.04%	0.002%
75	6.745	6.732	6.761	VV	396	4504	0.05%	0.003%
76	6.788	6.761	6.816	VV	679	12023	0.14%	0.007%
77	6.827	6.816	6.837	VV	709	6520	0.08%	0.004%
78	6.842	6.837	6.859	VV	571	6376	0.07%	0.004%
79	6.863	6.859	6.882	VV	445	3123	0.04%	0.002%
80	6.907	6.882	6.916	VV	1392	15046	0.18%	0.009%
81	6.931	6.916	6.947	VV	7060	66844	0.78%	0.041%
82	6.959	6.947	6.974	VV	2075	25198	0.29%	0.015%
83	6.993	6.974	7.052	VV	12695	155375	1.82%	0.095%
84	7.088	7.052	7.132	VV	583415	5544808	64.84%	3.398%
85	7.134	7.132	7.150	VV	816	6638	0.08%	0.004%
86	7.165	7.150	7.177	VV	660	8139	0.10%	0.005%
87	7.189	7.177	7.206	VV	685	8823	0.10%	0.005%
88	7.222	7.206	7.230	VV	2232	20817	0.24%	0.013%
89	7.246	7.230	7.264	VV	5899	70726	0.83%	0.043%
90	7.279	7.264	7.293	VV	2785	32104	0.38%	0.020%
91	7.304	7.293	7.333	VV	2171	30564	0.36%	0.019%
92	7.354	7.333	7.368	VV	2087	25227	0.29%	0.015%
93	7.383	7.368	7.404	VV	2208	25875	0.30%	0.016%
94	7.426	7.404	7.439	VV	852	12564	0.15%	0.008%
95	7.451	7.439	7.463	VV	1218	13510	0.16%	0.008%
96	7.478	7.463	7.500	VV	1537	17858	0.21%	0.011%
97	7.521	7.500	7.530	VV	292	4120	0.05%	0.003%
98	7.561	7.530	7.578	VV	705	11449	0.13%	0.007%
99	7.611	7.578	7.630	VV	608	12300	0.14%	0.008%
100	7.648	7.630	7.666	VV	2070	24033	0.28%	0.015%
101	7.699	7.666	7.726	VV	500737	4727305	55.28%	2.897%
102	7.730	7.726	7.752	VV	1110	12957	0.15%	0.008%
103	7.767	7.752	7.782	VV	987	11620	0.14%	0.007%
104	7.795	7.782	7.803	VV	830	8679	0.10%	0.005%
105	7.811	7.803	7.834	VV	725	10933	0.13%	0.007%
106	7.840	7.834	7.879	VV	591	11470	0.13%	0.007%
107	7.880	7.879	7.892	VV	397	2053	0.02%	0.001%
108	7.907	7.892	7.935	VV	508	7842	0.09%	0.005%
109	7.952	7.935	7.995	VV	1811	21738	0.25%	0.013%
110	8.007	7.995	8.027	VV	430	5234	0.06%	0.003%
111	8.046	8.027	8.067	VV	546	9921	0.12%	0.006%
112	8.079	8.067	8.101	VV	531	8075	0.09%	0.005%

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113	8.123	8.101	8.132	VV	577	8637	0.10%	0.005%
114	8.148	8.132	8.153	VV	729	8010	0.09%	0.005%
115	8.159	8.153	8.172	VV	815	7478	0.09%	0.005%
116	8.177	8.172	8.198	VV	547	7065	0.08%	0.004%
117	8.206	8.198	8.226	VV	591	7352	0.09%	0.005%
118	8.256	8.226	8.297	VV	89567	917177	10.72%	0.562%
119	8.314	8.297	8.330	VV	1328	17249	0.20%	0.011%
120	8.370	8.330	8.434	VV	737573	7280150	85.13%	4.461%
121	8.450	8.434	8.472	VV	1139	17266	0.20%	0.011%
122	8.489	8.472	8.514	VV	1296	17348	0.20%	0.011%
123	8.564	8.514	8.591	VV	274757	2674474	31.27%	1.639%
124	8.615	8.591	8.633	VV	1564	31018	0.36%	0.019%
125	8.666	8.633	8.704	VV	684229	6896046	80.64%	4.226%
126	8.716	8.704	8.731	VV	1527	21764	0.25%	0.013%
127	8.743	8.731	8.759	VV	1358	18286	0.21%	0.011%
128	8.766	8.759	8.771	VV	1073	7285	0.09%	0.004%
129	8.790	8.771	8.802	VV	1651	23238	0.27%	0.014%
130	8.810	8.802	8.842	VV	1740	24078	0.28%	0.015%
131	8.857	8.842	8.888	VV	1053	20089	0.23%	0.012%
132	8.913	8.888	8.918	VV	1017	13758	0.16%	0.008%
133	8.933	8.918	8.947	VV	1875	25106	0.29%	0.015%
134	8.976	8.947	9.007	VV	90638	917331	10.73%	0.562%
135	9.009	9.007	9.028	VV	2444	24683	0.29%	0.015%
136	9.033	9.028	9.045	VV	1513	13227	0.15%	0.008%
137	9.058	9.045	9.064	VV	1825	17863	0.21%	0.011%
138	9.095	9.064	9.120	VV	4560	79503	0.93%	0.049%
139	9.126	9.120	9.147	VV	1238	12994	0.15%	0.008%
140	9.163	9.147	9.194	VV	1176	18934	0.22%	0.012%
141	9.213	9.194	9.237	VV	900	12634	0.15%	0.008%
142	9.260	9.237	9.281	VV	723	13152	0.15%	0.008%
143	9.300	9.281	9.334	VV	1071	18973	0.22%	0.012%
144	9.360	9.334	9.370	VV	897	12953	0.15%	0.008%
145	9.379	9.370	9.389	VV	848	7861	0.09%	0.005%
146	9.403	9.389	9.412	VV	694	8185	0.10%	0.005%
147	9.449	9.412	9.487	VV	739019	7849675	91.79%	4.810%
148	9.500	9.487	9.510	VV	620	7177	0.08%	0.004%
149	9.527	9.510	9.560	VV	800	16105	0.19%	0.010%
150	9.580	9.560	9.604	VV	1097	20848	0.24%	0.013%
151	9.621	9.604	9.636	VV	1701	21337	0.25%	0.013%
152	9.656	9.636	9.677	VV	11660	124906	1.46%	0.077%
153	9.690	9.677	9.700	VV	1646	17685	0.21%	0.011%
154	9.719	9.700	9.745	VV	18522	188568	2.20%	0.116%
155	9.769	9.745	9.774	VV	699	10351	0.12%	0.006%

156	9.788	9.774	9.807	VV	774	9988	0.12%	0.006%
157	9.852	9.807	9.904	VV	91092	1004656	11.75%	0.616%
158	9.928	9.904	9.949	VV	1027	20796	0.24%	0.013%
159	9.952	9.949	9.979	VV	838	9958	0.12%	0.006%
160	10.004	9.979	10.016	VV	772	11765	0.14%	0.007%
161	10.022	10.016	10.036	VV	649	6505	0.08%	0.004%
162	10.047	10.036	10.067	VV	712	7004	0.08%	0.004%
163	10.080	10.067	10.096	PV	250	3084	0.04%	0.002%
164	10.129	10.096	10.149	VV	1144	16127	0.19%	0.010%
165	10.191	10.149	10.217	VV	1682	37483	0.44%	0.023%
166	10.244	10.217	10.264	VV	1098	22140	0.26%	0.014%
167	10.286	10.264	10.299	VV	1246	21410	0.25%	0.013%
168	10.318	10.299	10.347	VV	1058	25485	0.30%	0.016%
169	10.371	10.347	10.394	VV	1546	30966	0.36%	0.019%
170	10.410	10.394	10.424	VV	662	9201	0.11%	0.006%
171	10.438	10.424	10.450	VV	1351	16503	0.19%	0.010%
172	10.456	10.450	10.461	VV	1139	6316	0.07%	0.004%
173	10.464	10.461	10.469	VV	1028	4761	0.06%	0.003%
174	10.487	10.469	10.508	VV	1645	27644	0.32%	0.017%
175	10.524	10.508	10.532	VV	1207	12280	0.14%	0.008%
176	10.537	10.532	10.557	VV	1321	13703	0.16%	0.008%
177	10.569	10.557	10.579	VV	935	9546	0.11%	0.006%
178	10.590	10.579	10.604	VV	1076	14016	0.16%	0.009%
179	10.611	10.604	10.625	VV	1164	12603	0.15%	0.008%
180	10.645	10.625	10.664	VV	8171	93620	1.09%	0.057%
181	10.684	10.664	10.697	VV	1537	26128	0.31%	0.016%
182	10.721	10.697	10.760	VV	2875	56607	0.66%	0.035%
183	10.767	10.760	10.774	VV	839	5815	0.07%	0.004%
184	10.809	10.774	10.815	VV	3855	44084	0.52%	0.027%
185	10.849	10.815	10.887	VV	726621	8108362	94.81%	4.969%
186	10.925	10.887	10.974	VV	727196	7898985	92.36%	4.841%
187	10.994	10.974	11.008	VV	1641	25353	0.30%	0.016%
188	11.016	11.008	11.071	VV	1609	31836	0.37%	0.020%
189	11.094	11.071	11.109	VV	639	10693	0.13%	0.007%
190	11.126	11.109	11.152	VV	3914	47218	0.55%	0.029%
191	11.155	11.152	11.182	VV	708	6569	0.08%	0.004%
192	11.192	11.182	11.197	VV	382	3022	0.04%	0.002%
193	11.221	11.197	11.246	VV	698	11538	0.13%	0.007%
194	11.291	11.246	11.333	PV	91065	1051858	12.30%	0.645%
195	11.339	11.333	11.344	VV	807	4222	0.05%	0.003%
196	11.362	11.344	11.397	VV	1602	32504	0.38%	0.020%
197	11.402	11.397	11.428	VV	406	5781	0.07%	0.004%
198	11.450	11.428	11.464	VV	816	10401	0.12%	0.006%
199	11.483	11.464	11.517	VV	1004	14151	0.17%	0.009%

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200	11.542	11.517	11.567	VV	1153	21163	0.25%	0.013%
201	11.611	11.567	11.660	VV	440874	4745950	55.49%	2.908%
202	11.676	11.660	11.692	VV	2053	29085	0.34%	0.018%
203	11.707	11.692	11.724	VV	2018	27718	0.32%	0.017%
204	11.757	11.724	11.804	VV	2217	67588	0.79%	0.041%
205	11.816	11.804	11.860	VV	1392	32127	0.38%	0.020%
206	11.883	11.860	11.909	VV	1800	31281	0.37%	0.019%
207	11.952	11.909	11.974	VV	1507	42744	0.50%	0.026%
208	12.011	11.974	12.031	VV	16798	221373	2.59%	0.136%
209	12.054	12.031	12.095	VV	8532	143945	1.68%	0.088%
210	12.113	12.095	12.145	VV	3938	65058	0.76%	0.040%
211	12.214	12.145	12.318	VV	189549	2525228	29.53%	1.547%
212	12.334	12.318	12.352	VV	966	16492	0.19%	0.010%
213	12.365	12.352	12.381	VV	1060	16308	0.19%	0.010%
214	12.388	12.381	12.409	VV	1007	13456	0.16%	0.008%
215	12.462	12.409	12.516	VV	6992	139537	1.63%	0.086%
216	12.537	12.516	12.564	VV	2948	41876	0.49%	0.026%
217	12.599	12.564	12.626	VV	97422	1144626	13.38%	0.701%
218	12.665	12.626	12.714	VV	687247	8122001	94.97%	4.977%
219	12.729	12.714	12.775	VV	505	13485	0.16%	0.008%
220	12.784	12.775	12.790	VV	366	2760	0.03%	0.002%
221	12.794	12.790	12.807	VV	381	2895	0.03%	0.002%
222	12.841	12.807	12.865	VV	7300	96986	1.13%	0.059%
223	12.876	12.865	12.908	VV	1694	26192	0.31%	0.016%
224	12.964	12.908	12.987	VV	688042	8095426	94.66%	4.961%
225	13.008	12.987	13.019	VV	7052	103262	1.21%	0.063%
226	13.041	13.019	13.070	VV	55915	665841	7.79%	0.408%
227	13.088	13.070	13.094	VV	886	10329	0.12%	0.006%
228	13.100	13.094	13.111	VV	942	8521	0.10%	0.005%
229	13.122	13.111	13.152	VV	1147	18898	0.22%	0.012%
230	13.157	13.152	13.161	VV	505	2479	0.03%	0.002%
231	13.165	13.161	13.175	VV	545	3665	0.04%	0.002%
232	13.208	13.175	13.239	VV	88255	1083877	12.67%	0.664%
233	13.263	13.239	13.389	VV	11413	275273	3.22%	0.169%
234	13.436	13.389	13.522	VV	112103	1416885	16.57%	0.868%
235	13.539	13.522	13.569	VV	2820	48179	0.56%	0.030%
236	13.610	13.569	13.628	VV	1401	33675	0.39%	0.021%
237	13.651	13.628	13.671	VV	2199	38529	0.45%	0.024%
238	13.683	13.671	13.714	VV	1290	25821	0.30%	0.016%
239	13.737	13.714	13.760	VV	1660	30057	0.35%	0.018%
240	13.794	13.760	13.841	VV	86041	1069246	12.50%	0.655%
241	13.855	13.841	13.875	VV	956	14161	0.17%	0.009%
242	13.886	13.875	13.892	VV	458	3370	0.04%	0.002%

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243	13.916	13.892	13.947	VV	1902	31688	0.37%	0.019%
244	13.963	13.947	13.984	PV	897	12735	0.15%	0.008%
245	13.999	13.984	14.027	VV	621	13284	0.16%	0.008%
246	14.042	14.027	14.052	VV	650	8946	0.10%	0.005%
247	14.058	14.052	14.085	VV	501	8735	0.10%	0.005%
248	14.088	14.085	14.108	VV	314	2102	0.02%	0.001%
249	14.124	14.108	14.144	VV	406	5455	0.06%	0.003%
250	14.180	14.144	14.200	VV	1828	30037	0.35%	0.018%
251	14.226	14.200	14.248	VV	1978	37648	0.44%	0.023%
252	14.269	14.248	14.306	VV	1935	35492	0.42%	0.022%
253	14.353	14.306	14.382	VV	2021	42613	0.50%	0.026%
254	14.419	14.382	14.423	VV	825	14561	0.17%	0.009%
255	14.452	14.423	14.485	VV	2390	52105	0.61%	0.032%
256	14.515	14.485	14.542	VV	2584	44501	0.52%	0.027%
257	14.573	14.542	14.600	VV	2917	51991	0.61%	0.032%
258	14.604	14.600	14.607	VV	982	3673	0.04%	0.002%
259	14.611	14.607	14.623	VV	939	6865	0.08%	0.004%
260	14.662	14.623	14.692	VV	1891	45997	0.54%	0.028%
261	14.700	14.692	14.708	VV	1153	9629	0.11%	0.006%
262	14.732	14.708	14.759	VV	6512	86072	1.01%	0.053%
263	14.837	14.759	14.855	VV	574760	7476362	87.42%	4.582%
264	14.883	14.855	14.970	VV	677898	8552041	100.00%	5.241%
265	14.989	14.970	15.009	VV	1907	25286	0.30%	0.015%
266	15.020	15.009	15.038	VV	424	5068	0.06%	0.003%
267	15.067	15.038	15.100	VV	1474	25683	0.30%	0.016%
268	15.126	15.100	15.145	VV	780	14551	0.17%	0.009%
269	15.163	15.145	15.180	VV	631	10247	0.12%	0.006%
270	15.184	15.180	15.188	VV	449	1719	0.02%	0.001%
271	15.194	15.188	15.207	VV	577	4835	0.06%	0.003%
272	15.214	15.207	15.230	VV	424	3890	0.05%	0.002%
273	15.269	15.230	15.305	VV	16102	254297	2.97%	0.156%
274	15.321	15.305	15.354	VV	2215	38276	0.45%	0.023%
275	15.361	15.354	15.383	VV	628	8903	0.10%	0.005%
276	15.411	15.383	15.452	VV	3674	83997	0.98%	0.051%
277	15.493	15.452	15.514	VV	2393	44345	0.52%	0.027%
278	15.535	15.514	15.562	VV	1159	18546	0.22%	0.011%
279	15.578	15.562	15.595	VV	772	11997	0.14%	0.007%
280	15.627	15.595	15.649	VV	2940	47912	0.56%	0.029%
281	15.656	15.649	15.684	VV	1222	18172	0.21%	0.011%
282	15.689	15.684	15.692	VV	408	1816	0.02%	0.001%
283	15.735	15.692	15.756	VV	1210	29737	0.35%	0.018%
284	15.787	15.756	15.813	VV	1358	29807	0.35%	0.018%
285	15.817	15.813	15.830	VV	735	5464	0.06%	0.003%

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286	15.846	15.830	15.858	VV	767	10568	0.12%	0.006%
287	15.874	15.858	15.883	VV	924	11769	0.14%	0.007%
288	15.915	15.883	15.951	VV	77370	992585	11.61%	0.608%
289	15.975	15.951	16.013	VV	1133	21442	0.25%	0.013%
290	16.028	16.013	16.044	VV	401	4335	0.05%	0.003%
291	16.061	16.053	16.068	PV	265	1220	0.01%	0.001%
292	16.110	16.068	16.147	VV	1368	24030	0.28%	0.015%
293	16.167	16.147	16.181	PV	427	4462	0.05%	0.003%
294	16.205	16.181	16.210	VV	478	5060	0.06%	0.003%
295	16.218	16.210	16.232	VV	492	4166	0.05%	0.003%
296	16.283	16.245	16.339	VV	8137	134852	1.58%	0.083%
297	16.390	16.339	16.405	VV	480532	7104776	83.08%	4.354%
298	16.427	16.405	16.450	VV	576422	6961713	81.40%	4.266%
299	16.475	16.450	16.494	VV	1958	34511	0.40%	0.021%
300	16.514	16.494	16.546	VV	1298	24630	0.29%	0.015%
301	16.556	16.546	16.561	VV	954	5666	0.07%	0.003%
302	16.564	16.561	16.577	VV	804	6124	0.07%	0.004%
303	16.598	16.577	16.612	VV	1562	23006	0.27%	0.014%
304	16.628	16.612	16.654	VV	4074	54763	0.64%	0.034%
305	16.698	16.654	16.724	VV	5515	89750	1.05%	0.055%
306	16.772	16.724	16.806	VV	505859	6846585	80.06%	4.196%
307	16.860	16.806	16.890	VV	76046	1013432	11.85%	0.621%
308	16.911	16.890	16.930	VV	5193	75005	0.88%	0.046%
309	16.934	16.930	16.967	VV	1843	22311	0.26%	0.014%
310	16.996	16.967	17.002	VV	566	10259	0.12%	0.006%
311	17.006	17.002	17.039	VV	520	7805	0.09%	0.005%
312	17.057	17.049	17.070	VV	257	2314	0.03%	0.001%
313	17.124	17.078	17.170	VV	730	20380	0.24%	0.012%
314	17.223	17.191	17.273	PV	4057	76436	0.89%	0.047%
315	17.280	17.273	17.287	VV	811	5465	0.06%	0.003%
316	17.311	17.287	17.333	VV	3656	54828	0.64%	0.034%
317	17.350	17.333	17.377	VV	1240	20597	0.24%	0.013%
318	17.401	17.377	17.440	VV	930	17817	0.21%	0.011%
319	17.461	17.440	17.467	PV	389	3743	0.04%	0.002%
320	17.482	17.467	17.502	VV	500	7351	0.09%	0.005%
321	17.508	17.502	17.511	VV	299	1028	0.01%	0.001%
322	17.534	17.511	17.551	VV	535	8896	0.10%	0.005%
323	17.559	17.551	17.581	VV	499	5908	0.07%	0.004%
324	17.605	17.581	17.622	VV	633	12145	0.14%	0.007%
325	17.639	17.622	17.659	VV	1332	20223	0.24%	0.012%
326	17.672	17.659	17.690	VV	1016	15897	0.19%	0.010%
327	17.747	17.690	17.790	VV	70727	987481	11.55%	0.605%
328	17.834	17.790	17.861	VV	2768	62679	0.73%	0.038%
329	17.915	17.861	17.929	VV	1098	27704	0.32%	0.017%

rteres

330	17.955	17.929	18.005	VV	14681	230188	2.69%	0.141%
331	18.032	18.005	18.062	PV	1609	28847	0.34%	0.018%
332	18.140	18.062	18.153	VV	465598	7528618	88.03%	4.614%
333	18.178	18.153	18.230	VV	494056	6682468	78.14%	4.095%
334	18.260	18.230	18.267	VV	2004	23628	0.28%	0.014%
335	18.284	18.267	18.322	VV	3018	53845	0.63%	0.033%
336	18.325	18.322	18.340	VV	387	2116	0.02%	0.001%
337	18.396	18.340	18.440	PV	429073	6384237	74.65%	3.912%
338	18.445	18.440	18.451	VV	411	2324	0.03%	0.001%
339	18.457	18.451	18.470	VV	426	2964	0.03%	0.002%

Sum of corrected areas: 163182708

Aromatic EPH 090425.M Mon Sep 29 00:58:46 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:	FC092625AL	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:	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

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

Manual Integration Report

Sequence:	FD092625AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	FD100125AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	FF092425AR	Instrument	FID_f

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:	FF092525AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3178-01MS	FF016457.D	Bnezo[k]fluoranthene (C30.14)	yogesh	9/26/2025 7:34:27 AM	Sohil	9/26/2025 3:57:22	Peak Integrated by Software
Q3178-01MS	FF016457.D	Dibenz[a,h]anthracene (C30.36)	yogesh	9/26/2025 7:34:27 AM	Sohil	9/26/2025 3:57:22	Peak Integrated by Software
Q3178-01MSD	FF016458.D	Bnezo[k]fluoranthene (C30.14)	yogesh	9/26/2025 7:34:29 AM	Sohil	9/26/2025 3:57:25	Peak Integrated by Software
Q3178-01MSD	FF016458.D	Dibenz[a,h]anthracene (C30.36)	yogesh	9/26/2025 7:34:29 AM	Sohil	9/26/2025 3:57:25	Peak Integrated by Software

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Manual Integration Report

Sequence:	FG092425AL	Instrument	FID_g

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:	FG092525AL	Instrument	FID_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3192-02	FG016649.D	1-chlorooctadecane (SURR)	yogesh	9/26/2025 7:34:06 AM	mohammad	9/30/2025 1:27:37	Peak Integrated by Software
20 PPM ALIPHATIC HC	FG016658.D	n-Hexatriacontane (C36)	yogesh	9/29/2025 4:10:46 PM	mohammad	9/30/2025 1:27:37	Peak Integrated by Software
20 PPM ALIPHATIC HC	FG016658.D	n-Octatriacontane (C38)	yogesh	9/29/2025 4:10:46 PM	mohammad	9/30/2025 1:27:37	Peak Integrated by Software
20 PPM ALIPHATIC HC	FG016658.D	n-Tetracontane (C40)	yogesh	9/29/2025 4:10:46 PM	mohammad	9/30/2025 1:27:37	Peak Integrated by Software
20 PPM ALIPHATIC HC	FG016658.D	n-Tetratriacontane (C34)	yogesh	9/29/2025 4:10:46 PM	mohammad	9/30/2025 1:27:37	Peak Integrated by Software
Q3178-02	FG016660.D	n-Hexatriacontane (C36)	yogesh	10/2/2025 1:06:41 PM	Sohil	10/2/2025 1:07:19	Peak Integrated by Software
Q3178-02	FG016660.D	n-Tetratriacontane (C34)	yogesh	10/2/2025 1:06:41 PM	Sohil	10/2/2025 1:07:19	Peak Integrated by Software
Q3178-03	FG016661.D	n-Hexatriacontane (C36)	yogesh	10/2/2025 1:06:42 PM	Sohil	10/2/2025 1:07:22	Peak Integrated by Software
Q3178-03	FG016661.D	n-Tetratriacontane (C34)	yogesh	10/2/2025 1:06:42 PM	Sohil	10/2/2025 1:07:22	Peak Integrated by Software
20 PPM ALIPHATIC HC	FG016663.D	n-Hexatriacontane (C36)	yogesh	9/29/2025 4:10:51 PM	mohammad	9/30/2025 1:27:37	Peak Integrated by Software
20 PPM ALIPHATIC HC	FG016663.D	n-Tetratriacontane (C34)	yogesh	9/29/2025 4:10:51 PM	mohammad	9/30/2025 1:27:37	Peak Integrated by Software

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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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC092625AL

Review By	yogesh	Review On	9/26/2025 10:12:39 AM		
Supervise By	mohammad	Supervise On	9/30/2025 1:28:00 AM		
SubDirectory	FC092625AL	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	FC069851.D	26 Sep 2025 07:44	YP/AJ	Ok
2	I.BLK	FC069852.D	26 Sep 2025 08:26	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC069853.D	26 Sep 2025 09:09	YP/AJ	Ok
4	PB169823BL	FC069854.D	26 Sep 2025 10:37	YP/AJ	Ok
5	PB169823BS	FC069855.D	26 Sep 2025 13:39	YP/AJ	Ok
6	PB169823BSD	FC069856.D	26 Sep 2025 14:25	YP/AJ	Ok
7	I.BLK	FC069857.D	26 Sep 2025 15:17	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD	FC069858.D	26 Sep 2025 16:04	YP/AJ	Ok

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

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD092625AR

Review By	yogesh	Review On	9/26/2025 10:13:31 AM		
Supervise By	mohammad	Supervise On	9/30/2025 1:28:06 AM		
SubDirectory	FD092625AR	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	FD049763.D	26 Sep 2025 07:44	YP/AJ	Ok
2	I.BLK	FD049764.D	26 Sep 2025 08:26	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049765.D	26 Sep 2025 09:09	YP/AJ	Ok
4	Q3178-01	FD049766.D	26 Sep 2025 09:52	YP/AJ	Ok
5	Q3178-01D	FD049767.D	26 Sep 2025 10:37	YP/AJ	Ok
6	Q3178-02	FD049768.D	26 Sep 2025 11:22	YP/AJ	Ok
7	Q3178-03	FD049769.D	26 Sep 2025 12:07	YP/AJ	Ok
8	I.BLK	FD049770.D	26 Sep 2025 12:53	YP/AJ	Ok
9	20 PPM AROMATIC HC STD	FD049771.D	26 Sep 2025 13:39	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD100125AR

Review By	yogesh	Review On	10/1/2025 3:38:16 PM		
Supervise By	Sohil	Supervise On	10/2/2025 1:04:55 PM		
SubDirectory	FD100125AR	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	FD049781.D	01 Oct 2025 08:17	YP/AJ	Ok
2	I.BLK	FD049782.D	01 Oct 2025 08:58	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049783.D	01 Oct 2025 09:40	YP/AJ	Ok
4	PB169823BS	FD049784.D	01 Oct 2025 14:56	YP/AJ	Ok
5	PB169823BL	FD049785.D	01 Oct 2025 15:40	YP/AJ	Ok
6	PB169823BSD	FD049786.D	01 Oct 2025 16:25	YP/AJ	Ok
7	I.BLK	FD049787.D	01 Oct 2025 17:10	YP/AJ	Ok
8	20 PPM AROMATIC HC STD	FD049788.D	01 Oct 2025 17:54	YP/AJ	Ok

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 # FF092525AR

Review By	yogesh	Review On	9/25/2025 2:53:23 PM		
Supervise By	Sohil	Supervise On	9/26/2025 3:57:30 PM		
SubDirectory	FF092525AR	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	FF016449.D	25 Sep 2025 13:49	YP\AJ	Ok
2	I.BLK	FF016450.D	25 Sep 2025 14:19	YP\AJ	Ok
3	20 PPM AROMATIC HC STD	FF016451.D	25 Sep 2025 14:49	YP\AJ	Ok
4	Q3192-01	FF016452.D	25 Sep 2025 15:50	YP\AJ	Ok
5	Q3192-02	FF016453.D	25 Sep 2025 16:20	YP\AJ	Ok
6	Q3176-01	FF016454.D	25 Sep 2025 16:52	YP\AJ	Ok
7	Q3178-01	FF016455.D	25 Sep 2025 17:22	YP\AJ	ReRun
8	Q3178-01D	FF016456.D	25 Sep 2025 17:52	YP\AJ	ReRun
9	Q3178-01MS	FF016457.D	25 Sep 2025 18:22	YP\AJ	Not Ok
10	Q3178-01MSD	FF016458.D	25 Sep 2025 18:52	YP\AJ	Not Ok
11	PB169823BL	FF016459.D	25 Sep 2025 19:22	YP\AJ	Not Ok
12	PB169823BS	FF016460.D	25 Sep 2025 19:52	YP\AJ	Not Ok
13	I.BLK	FF016461.D	26 Sep 2025 07:41	YP\AJ	Ok
14	20 PPM AROMATIC HC STD	FF016462.D	26 Sep 2025 08:42	YP\AJ	Ok
15	Q3176-02	FF016463.D	26 Sep 2025 09:11	YP\AJ	Ok
16	Q3176-03	FF016464.D	26 Sep 2025 09:41	YP\AJ	Ok
17	I.BLK	FF016465.D	26 Sep 2025 10:10	YP\AJ	Ok
18	20 PPM AROMATIC HC STD	FF016466.D	26 Sep 2025 10:40	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG092425AL

Review By	yogesh	Review On	9/24/2025 1:00:45 PM		
Supervise By	mohammad	Supervise On	9/26/2025 4:25:56 AM		
SubDirectory	FG092425AL	HP Acquire Method		HP Processing Method	FG092425AL

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	FG016625.D	24 Sep 2025 13:00	YP\AJ	Ok
2	I.BLK	FG016626.D	24 Sep 2025 13:30	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FG016627.D	24 Sep 2025 13:59	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FG016628.D	24 Sep 2025 14:29	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FG016629.D	24 Sep 2025 14:59	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FG016630.D	24 Sep 2025 15:28	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FG016631.D	24 Sep 2025 15:58	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FG016632.D	24 Sep 2025 16:28	YP\AJ	Ok
9	I.BLK	FG016633.D	24 Sep 2025 17:27	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FG016634.D	24 Sep 2025 17:57	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG092525AL

Review By	yogesh	Review On	9/25/2025 2:52:00 PM		
Supervise By	Sohil	Supervise On	10/2/2025 1:07:29 PM		
SubDirectory	FG092525AL	HP Acquire Method		HP Processing Method	FG092425AL

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	FG016645.D	25 Sep 2025 14:19	YP\AJ	Ok
2	I.BLK	FG016646.D	25 Sep 2025 14:49	YP\AJ	Ok
3	20 PPM ALIPHATIC HCSTD	FG016647.D	25 Sep 2025 15:19	YP\AJ	Ok
4	Q3192-01	FG016648.D	25 Sep 2025 15:50	YP\AJ	Dilution
5	Q3192-02	FG016649.D	25 Sep 2025 16:20	YP\AJ	Dilution
6	Q3192-01DL	FG016650.D	25 Sep 2025 16:52	YP\AJ	Ok
7	Q3192-02DL	FG016651.D	25 Sep 2025 17:22	YP\AJ	Not Ok
8	Q3192-02DL	FG016652.D	25 Sep 2025 17:52	YP\AJ	Ok
9	Q3176-01	FG016653.D	25 Sep 2025 18:22	YP\AJ	Ok
10	Q3176-02	FG016654.D	25 Sep 2025 18:52	YP\AJ	Ok
11	Q3176-03	FG016655.D	25 Sep 2025 19:22	YP\AJ	Ok
12	Q3178-01	FG016656.D	25 Sep 2025 19:52	YP\AJ	Ok
13	I.BLK	FG016657.D	26 Sep 2025 07:41	YP\AJ	Ok
14	20 PPM ALIPHATIC HC STD	FG016658.D	26 Sep 2025 08:42	YP\AJ	Ok,M
15	Q3178-01D	FG016659.D	26 Sep 2025 09:11	YP\AJ	Ok
16	Q3178-02	FG016660.D	26 Sep 2025 09:41	YP\AJ	Ok,M
17	Q3178-03	FG016661.D	26 Sep 2025 10:10	YP\AJ	Ok,M
18	I.BLK	FG016662.D	26 Sep 2025 10:40	YP\AJ	Ok
19	20 PPM ALIPHATIC HC STD	FG016663.D	26 Sep 2025 11:10	YP\AJ	Ok,M

M : Manual Integration

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

Instrument ID: FID_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 # FC092625AL

Review By	yogesh	Review On	9/26/2025 10:12:39 AM		
Supervise By	mohammad	Supervise On	9/30/2025 1:28:00 AM		
SubDirectory	FC092625AL	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	FC069851.D	26 Sep 2025 07:44		YP/AJ	Ok
2	I.BLK	I.BLK	FC069852.D	26 Sep 2025 08:26		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069853.D	26 Sep 2025 09:09		YP/AJ	Ok
4	PB169823BL	PB169823BL	FC069854.D	26 Sep 2025 10:37		YP/AJ	Ok
5	PB169823BS	PB169823BS	FC069855.D	26 Sep 2025 13:39		YP/AJ	Ok
6	PB169823BSD	PB169823BSD	FC069856.D	26 Sep 2025 14:25		YP/AJ	Ok
7	I.BLK	I.BLK	FC069857.D	26 Sep 2025 15:17		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069858.D	26 Sep 2025 16:04		YP/AJ	Ok

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

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD092625AR

Review By	yogesh	Review On	9/26/2025 10:13:31 AM		
Supervise By	mohammad	Supervise On	9/30/2025 1:28:06 AM		
SubDirectory	FD092625AR	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	FD049763.D	26 Sep 2025 07:44		YP/AJ	Ok
2	I.BLK	I.BLK	FD049764.D	26 Sep 2025 08:26		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049765.D	26 Sep 2025 09:09		YP/AJ	Ok
4	Q3178-01	EME-TS14-01	FD049766.D	26 Sep 2025 09:52		YP/AJ	Ok
5	Q3178-01D	Q3178-01D	FD049767.D	26 Sep 2025 10:37		YP/AJ	Ok
6	Q3178-02	Q3178-02	FD049768.D	26 Sep 2025 11:22	FD049766.D	YP/AJ	Ok
7	Q3178-03	Q3178-03	FD049769.D	26 Sep 2025 12:07	FD049766.D!FD049768.D	YP/AJ	Ok
8	I.BLK	I.BLK	FD049770.D	26 Sep 2025 12:53		YP/AJ	Ok
9	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049771.D	26 Sep 2025 13:39		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD100125AR

Review By	yogesh	Review On	10/1/2025 3:38:16 PM		
Supervise By	Sohil	Supervise On	10/2/2025 1:04:55 PM		
SubDirectory	FD100125AR	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	FD049781.D	01 Oct 2025 08:17		YP/AJ	Ok
2	I.BLK	I.BLK	FD049782.D	01 Oct 2025 08:58		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049783.D	01 Oct 2025 09:40		YP/AJ	Ok
4	PB169823BS	PB169823BS	FD049784.D	01 Oct 2025 14:56		YP/AJ	Ok
5	PB169823BL	PB169823BL	FD049785.D	01 Oct 2025 15:40		YP/AJ	Ok
6	PB169823BSD	PB169823BSD	FD049786.D	01 Oct 2025 16:25		YP/AJ	Ok
7	I.BLK	I.BLK	FD049787.D	01 Oct 2025 17:10		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049788.D	01 Oct 2025 17:54		YP/AJ	Ok

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 # FF092525AR

Review By	yogesh	Review On	9/25/2025 2:53:23 PM		
Supervise By	Sohil	Supervise On	9/26/2025 3:57:30 PM		
SubDirectory	FF092525AR	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	FF016449.D	25 Sep 2025 13:49		YP\AJ	Ok
2	I.BLK	I.BLK	FF016450.D	25 Sep 2025 14:19		YP\AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016451.D	25 Sep 2025 14:49		YP\AJ	Ok
4	Q3192-01	RB104	FF016452.D	25 Sep 2025 15:50		YP\AJ	Ok
5	Q3192-02	RB105	FF016453.D	25 Sep 2025 16:20		YP\AJ	Ok
6	Q3176-01	EME-TS12-01	FF016454.D	25 Sep 2025 16:52		YP\AJ	Ok
7	Q3178-01	EME-TS14-01	FF016455.D	25 Sep 2025 17:22	Surrogate fail	YP\AJ	ReRun
8	Q3178-01D	Q3178-01D	FF016456.D	25 Sep 2025 17:52	Surrogate fail	YP\AJ	ReRun
9	Q3178-01MS	Q3178-01MS	FF016457.D	25 Sep 2025 18:22	FF016455.D,MSD not ok	YP\AJ	Not Ok
10	Q3178-01MSD	Q3178-01MSD	FF016458.D	25 Sep 2025 18:52	FF016455.D!FF016457.D,Surrogate fail	YP\AJ	Not Ok
11	PB169823BL	PB169823BL	FF016459.D	25 Sep 2025 19:22	Surrogate fail	YP\AJ	Not Ok
12	PB169823BS	PB169823BS	FF016460.D	25 Sep 2025 19:52	Recovery fail	YP\AJ	Not Ok
13	I.BLK	I.BLK	FF016461.D	26 Sep 2025 07:41		YP\AJ	Ok
14	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016462.D	26 Sep 2025 08:42		YP\AJ	Ok
15	Q3176-02	EME-TS13-01	FF016463.D	26 Sep 2025 09:11		YP\AJ	Ok
16	Q3176-03	EME-TS14-02	FF016464.D	26 Sep 2025 09:41		YP\AJ	Ok
17	I.BLK	I.BLK	FF016465.D	26 Sep 2025 10:10		YP\AJ	Ok

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF092525AR

Review By	yogesh	Review On	9/25/2025 2:53:23 PM		
Supervise By	Sohil	Supervise On	9/26/2025 3:57:30 PM		
SubDirectory	FF092525AR	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	

18	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016466.D	26 Sep 2025 10:40		YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG092425AL

Review By	yogesh	Review On	9/24/2025 1:00:45 PM		
Supervise By	mohammad	Supervise On	9/26/2025 4:25:56 AM		
SubDirectory	FG092425AL	HP Acquire Method		HP Processing Method	FG092425AL

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	FG016625.D	24 Sep 2025 13:00		YP\AJ	Ok
2	I.BLK	I.BLK	FG016626.D	24 Sep 2025 13:30		YP\AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FG016627.D	24 Sep 2025 13:59		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FG016628.D	24 Sep 2025 14:29		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016629.D	24 Sep 2025 14:59		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FG016630.D	24 Sep 2025 15:28		YP\AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FG016631.D	24 Sep 2025 15:58		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016632.D	24 Sep 2025 16:28		YP\AJ	Ok
9	I.BLK	I.BLK	FG016633.D	24 Sep 2025 17:27		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016634.D	24 Sep 2025 17:57		YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG092525AL

Review By	yogesh	Review On	9/25/2025 2:52:00 PM		
Supervise By	Sohil	Supervise On	10/2/2025 1:07:29 PM		
SubDirectory	FG092525AL	HP Acquire Method		HP Processing Method	FG092425AL

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	FG016645.D	25 Sep 2025 14:19		YP\AJ	Ok
2	I.BLK	I.BLK	FG016646.D	25 Sep 2025 14:49		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016647.D	25 Sep 2025 15:19		YP\AJ	Ok
4	Q3192-01	RB104	FG016648.D	25 Sep 2025 15:50	Need dilution	YP\AJ	Dilution
5	Q3192-02	RB105	FG016649.D	25 Sep 2025 16:20	Need dilution	YP\AJ	Dilution
6	Q3192-01DL	RB104DL	FG016650.D	25 Sep 2025 16:52		YP\AJ	Ok
7	Q3192-02DL	RB105DL	FG016651.D	25 Sep 2025 17:22	Need more dilution	YP\AJ	Not Ok
8	Q3192-02DL	RB105DL	FG016652.D	25 Sep 2025 17:52		YP\AJ	Ok
9	Q3176-01	EME-TS12-01	FG016653.D	25 Sep 2025 18:22		YP\AJ	Ok
10	Q3176-02	EME-TS13-01	FG016654.D	25 Sep 2025 18:52		YP\AJ	Ok
11	Q3176-03	EME-TS14-02	FG016655.D	25 Sep 2025 19:22		YP\AJ	Ok
12	Q3178-01	EME-TS14-01	FG016656.D	25 Sep 2025 19:52		YP\AJ	Ok
13	I.BLK	I.BLK	FG016657.D	26 Sep 2025 07:41		YP\AJ	Ok
14	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016658.D	26 Sep 2025 08:42		YP\AJ	Ok,M
15	Q3178-01D	Q3178-01D	FG016659.D	26 Sep 2025 09:11		YP\AJ	Ok
16	Q3178-02	Q3178-02	FG016660.D	26 Sep 2025 09:41	FG016656.D	YP\AJ	Ok,M
17	Q3178-03	Q3178-03	FG016661.D	26 Sep 2025 10:10	FG016656.D!FG016660.D	YP\AJ	Ok,M
18	I.BLK	I.BLK	FG016662.D	26 Sep 2025 10:40		YP\AJ	Ok

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG092525AL

Review By	yogesh	Review On	9/25/2025 2:52:00 PM		
Supervise By	Sohil	Supervise On	10/2/2025 1:07:29 PM		
SubDirectory	FG092525AL	HP Acquire Method		HP Processing Method	FG092425AL

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	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016663.D	26 Sep 2025 11:10		YP\AJ	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 9/25/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 09/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:37
Out Date: 09/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB137296

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3170-01	MOD-25-0271	1	1.00	1.00	2.00	2.00	100.0	oil sample
Q3170-02	MOD-25-0271	2	1.00	1.00	2.00	2.00	100.0	oil sample
Q3176-01	EME-TS12-01	3	1.15	10.61	11.76	8.16	66.1	
Q3176-02	EME-TS13-01	4	1.18	10.37	11.55	8.27	68.4	
Q3176-03	EME-TS14-02	5	1.13	10.35	11.48	8.37	70.0	
Q3178-01	EME-TS14-01	6	1.13	10.74	11.87	8.8	71.4	
Q3178-02	EME-TS14-01MS	7	1.13	10.74	11.87	8.8	71.4	
Q3178-03	EME-TS14-01MSD	8	1.13	10.74	11.87	8.8	71.4	
Q3183-01	WC-1	9	1.18	10.41	11.59	10.09	85.6	
Q3183-02	WC-1-EPH	10	1.19	10.43	11.62	10.19	86.3	
Q3183-03	WC-1-VOC	11	1.13	10.60	11.73	10.55	88.9	
Q3183-04	WC-4	12	1.19	10.56	11.75	10.6	89.1	
Q3183-05	WC-4-EPH	13	1.19	10.49	11.68	9.77	81.8	
Q3183-06	WC-4-VOC	14	1.18	10.63	11.81	10.42	86.9	
Q3183-07	WC-3	15	1.13	10.42	11.55	9.8	83.2	
Q3183-08	WC-3-EPH	16	1.13	10.49	11.62	9.79	82.6	
Q3183-09	WC-3-VOC	17	1.19	10.55	11.74	10.96	92.6	
Q3185-01	Y2404-0048-1-1	18	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-02	Y2404-0048-1-2	19	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-03	KMH392P-1-1	20	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-04	KMH392P-1-2	21	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-05	EFB430R-1-1	22	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-06	EFB430R-1-2	23	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-07	4125-A	24	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-08	4125-B	25	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-09	4125-C	26	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-10	4125-D	27	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-11	4125-E	28	1.00	1.00	2.00	2.00	100.0	PILC

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 9/25/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 09/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:37
Out Date: 09/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB137296

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3185-12	4126-A	29	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-13	4126-B	30	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-14	4126-C	31	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-15	4126-D	32	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-16	4126-E	33	1.00	1.00	2.00	2.00	100.0	PILC
Q3186-01	Y2404-0043-1-1	34	1.00	1.00	2.00	2.00	100.0	PILC
Q3186-02	Y2404-0043-1-2	35	1.00	1.00	2.00	2.00	100.0	PILC
Q3186-03	KMA695Y-1-1	36	1.00	1.00	2.00	2.00	100.0	PILC
Q3186-04	KMA695Y-1-2	37	1.00	1.00	2.00	2.00	100.0	PILC
Q3187-01	228	38	1.19	10.67	11.86	10.96	91.6	
Q3187-02	228-E2	39	1.14	10.49	11.63	10.32	87.5	
Q3188-01	4135	40	1.00	1.00	2.00	2.00	100.0	debris
Q3188-02	RB22120	41	1.18	10.32	11.5	10.88	94.0	
Q3188-03	RB22120	42	1.16	10.60	11.76	10.92	92.1	
Q3189-01	72-11989	43	1.15	10.84	11.99	11.33	93.9	
Q3189-02	72-11989-E2	44	1.11	10.67	11.78	11.44	96.8	
Q3191-01	459	45	1.00	1.00	2.00	2.00	100.0	oil sample
Q3192-01	RB104	46	1.15	10.91	12.06	11.49	94.8	
Q3192-02	RB105	47	1.13	10.80	11.93	11.26	93.8	

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

WORKLIST(Hardcopy Internal Chain)

LB 137296

WorkList Name : %1-092425 **WorkList ID :** 192050 **Department :** Wet-Chemistry **Date :** 09-24-2025 13:11:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3170-01	MOD-25-0271	Solid	Percent Solids	Cool 4 deg C	PSEG03	J11	09/23/2025	Chemtech -SO
Q3170-02	MOD-25-0271	Solid	Percent Solids	Cool 4 deg C	PSEG03	J11	09/23/2025	Chemtech -SO
Q3176-01	EME-TS12-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	J43	09/23/2025	Chemtech -SO
Q3176-02	EME-TS13-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	J43	09/23/2025	Chemtech -SO
Q3176-03	EME-TS14-02	Solid	Percent Solids	Cool 4 deg C	ROYF02	J43	09/23/2025	Chemtech -SO
Q3178-01	EME-TS14-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	J33	09/23/2025	Chemtech -SO
Q3178-02	EME-TS14-01MS	Solid	Percent Solids	Cool 4 deg C	ROYF02	J33	09/23/2025	Chemtech -SO
Q3178-03	EME-TS14-01MSD	Solid	Percent Solids	Cool 4 deg C	ROYF02	J33	09/23/2025	Chemtech -SO
Q3183-01	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3183-02	WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3183-03	WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3183-04	WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3183-05	WC-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3183-06	WC-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3183-07	WC-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3183-08	WC-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3183-09	WC-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3185-01	Y2404-0048-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-02	Y2404-0048-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-03	KMH392P-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-04	KMH392P-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO

Date/Time 09/24/25 15:25

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 09/24/25 17:35

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

VB137296

WorkList Name : %1-092425 **WorkList ID :** 192050 **Department :** Wet-Chemistry **Date :** 09-24-2025 13:11:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3185-05	EFB430R-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-06	EFB430R-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-07	4125-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-08	4125-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-09	4125-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-10	4125-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-11	4125-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-12	4126-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-13	4126-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-14	4126-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-15	4126-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-16	4126-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3186-01	Y2404-0043-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3186-02	Y2404-0043-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J42	09/24/2025	Chemtech -SO
Q3186-03	KMA695Y-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J42	09/24/2025	Chemtech -SO
Q3186-04	KMA695Y-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J42	09/24/2025	Chemtech -SO
Q3187-01	228	Solid	Percent Solids	Cool 4 deg C	PSEG03	J42	09/24/2025	Chemtech -SO
Q3187-02	228-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J11	09/24/2025	Chemtech -SO
Q3188-01	4135	Solid	Percent Solids	Cool 4 deg C	PSEG03	J11	09/24/2025	Chemtech -SO
Q3188-02	RB22120	Solid	Percent Solids	Cool 4 deg C	PSEG03	J12	09/24/2025	Chemtech -SO
Q3188-03	RB22120	Solid	Percent Solids	Cool 4 deg C	PSEG03	J12	09/24/2025	Chemtech -SO

Date/Time 09/24/25 1525

Raw Sample Received by: TB CW C

Raw Sample Relinquished by:

Date/Time 09/24/25 1735

Raw Sample Received by:

Raw Sample Relinquished by: TB CW C

WORKLIST(Hardcopy Internal Chain)

VB 137296

WorkList Name : %1-092425 **WorkList ID :** 192050 **Department :** Wet-Chemistry **Date :** 09-24-2025 13:11:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3189-01	72-11989	Solid	Percent Solids	Cool 4 deg C	PSEG03		09/24/2025	Chemtech -SO
Q3189-02	72-11989-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I63	09/24/2025	Chemtech -SO
Q3191-01	459	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/25/2025	Chemtech -SO
Q3192-01	RB104	Solid	Percent Solids	Cool 4 deg C	GENV01	J13	09/24/2025	Chemtech -SO
Q3192-02	RB105	Solid	Percent Solids	Cool 4 deg C	GENV01	J13	09/24/2025	Chemtech -SO

Date/Time 09/24/25 15:25

Raw Sample Received by: VB CWC

Raw Sample Relinquished by: CP SM

Date/Time 09/24/25 17:35

Raw Sample Received by: CP SM

Raw Sample Relinquished by: VB CWC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB169823

SOP ID:	MNJDEP-EPH-8				
Clean Up SOP #:	N/A			**Extraction Start Date :**	09/25/2025
Matrix :	Solid			**Extraction Start Time :**	08:15
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	09/25/2025
Balance check:	EH	**Filter By:**	RJ	**Extraction End Time :**	14:45
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**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	PP24866
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
MeCl2/Acetone/1:1	N/A	EP2641
Baked Na2SO4	N/A	EP2639
Sand	N/A	E3951
Hexane	N/A	E3971
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
9/25/25	RJ (EXT. Lab)	R. Patel / PCB Lab
14:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB169823

Analytical Method: MNJDEP-EPH-8 **Concentration Date:** 09/25/2025

Sample ID	Client Sample ID	Test	9 mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169823BL	PB169823BL	EPH	30.01	N/A	ritesh	Evelyn	2			U1-1
PB169823BS	PB169823BS	EPH	30.03	N/A	ritesh	Evelyn	2			2
PB169823BSD	PB169823BSD	EPH	30.02	N/A	ritesh	Evelyn	2			3
Q3176-01	EME-TS12-01	EPH	30.06	N/A	ritesh	Evelyn	2	F		4
Q3176-02	EME-TS13-01	EPH	30.08	N/A	ritesh	Evelyn	2	F		5
Q3176-03	EME-TS14-02	EPH	30.07	N/A	ritesh	Evelyn	2	F		6
Q3178-01	EME-TS14-01	EPH	30.03	N/A	ritesh	Evelyn	2	F		U2-1
Q3178-01DUP	EME-TS14-01DUP	EPH	30.05	N/A	ritesh	Evelyn	2	F		2
Q3178-02	EME-TS14-01MS	EPH	30.04	N/A	ritesh	Evelyn	2	F		3
Q3178-03	EME-TS14-01MSD	EPH	30.01	N/A	ritesh	Evelyn	2	F		4
Q3192-01	RB104	EPH	30.03	N/A	ritesh	Evelyn	2	B		5
Q3192-02	RB105	EPH	30.06	N/A	ritesh	Evelyn	2	B		6

RJ
9/25

* **Extracts relinquished on the same date as received.**

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3192 **WorkList ID :** 192068 **Department :** Extraction **Date :** 09-25-2025 08:10:38

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3176-01	EME-TS12-01	Solid	EPH	Cool 4 deg C	ROYF02	J43	09/23/2025	NJEPH
Q3176-02	EME-TS13-01	Solid	EPH	Cool 4 deg C	ROYF02	J43	09/23/2025	NJEPH
Q3176-03	EME-TS14-02	Solid	EPH	Cool 4 deg C	ROYF02	J43	09/23/2025	NJEPH
Q3178-01	EME-TS14-01	Solid	EPH	Cool 4 deg C	ROYF02	J33	09/23/2025	NJEPH
Q3178-02	EME-TS14-01MS	Solid	EPH	Cool 4 deg C	ROYF02	J33	09/23/2025	NJEPH
Q3178-03	EME-TS14-01MSD	Solid	EPH	Cool 4 deg C	ROYF02	J33	09/23/2025	NJEPH
Q3192-01	RB104	Solid	EPH	Cool 4 deg C	GENV01	J13	09/24/2025	NJEPH
Q3192-02	RB105	Solid	EPH	Cool 4 deg C	GENV01	J13	09/24/2025	NJEPH

Date/Time 09/25/25 8:10
Raw Sample Received by: RJ (TEST-Celb)
Raw Sample Relinquished by: CP

Date/Time 09/25/25 8:25
Raw Sample Received by: CP
Raw Sample Relinquished by: RJ (TEST-Celb)

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

Prep Standard - Chemical Standard Summary

Order ID : Q3192

Test : EPH

Prepbatch ID : PB169823,

Sequence ID/Qc Batch ID: FC092625AL,FD092625AR,FD100125AR,FF092525AR,Fg092525AL,

Standard ID :
EP2639,EP2641,PP24500,PP24501,PP24502,PP24503,PP24504,PP24505,PP24506,PP24768,PP24769,PP24770,PP24771,PP24772,PP24773,PP24774,PP24866,PP24915,PP24918,

Chemical ID :
E3875,E3926,E3951,E3956,E3963,E3966,E3971,E3972,E3973,P10758,P11140,P12364,P13280,P13281,P13620,P13621,P13623,P13624,P13673,P13674,P13690,P13691,P13692,P13693,P13694,P13954,P13955,P14028,P14058,P14059,P14060,P14061,P14074,P14075,P14076,P14077,P14078,P14079,P14080,P14081,P14082,P14083,P14094,P14095,P14096,P14097,P14098,P14099,P14100,P14101,P14102,P14103,W3234,

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Fax : 908 789 8922

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2639	09/12/2025	01/28/2026	Riteshkumar Patel	Extraction_SCALE_2 (EX-SC-2)	None	Evelyn Huang 09/12/2025

FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2641	09/16/2025	03/16/2026	Evelyn Huang	None	None	Riteshkumar Patel 09/16/2025

FROM 8000.00000ml of E3972 + 8000.00000ml of E3973 = Final Quantity: 16000.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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

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

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

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

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

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

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

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

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

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

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

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
1339	100 PPM NJEPH Surrogate Spike	PP24866	08/21/2025	02/15/2026	Abdul Mirza	None	None	Yogesh Patel 09/17/2025

FROM 1.25000ml of P13621 + 1.25000ml of P13623 + 1.25000ml of P13624 + 1.25000ml of P13691 + 1.25000ml of P13692 + 1.25000ml of P13693 + 1.25000ml of P13694 + 1.25000ml of P14028 + 490.00000ml of E3963 = Final Quantity: 500.000 ml

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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1330	100 PPM NJEPH Spike Solution	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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CHEMICAL RECEIPT LOG BOOK

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-3382-05 / Sand, Purified (cs/4x2.5kg)	25A2756718	12/31/2028	07/09/2025 / RUPESH	04/28/2020 / RUPESH	E3951

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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	02/15/2026	08/15/2025 / RUPESH	08/07/2025 / RUPESH	E3963

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

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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)	25C0362005	04/30/2026	09/15/2025 / Evelyn	09/04/2025 / Riteshkumar	E3971

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

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

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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	P13280

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	31098 / 1-Chlorooctadecane Standard	A0213283	02/21/2026	08/21/2025 / Abdul	10/16/2024 / yogesh	P13621

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	02/21/2026	08/21/2025 / Abdul	10/16/2024 / yogesh	P13623

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	02/21/2026	08/21/2025 / Abdul	10/16/2024 / yogesh	P13624

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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	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	31097 / o-Terphenyl Standard	A0216631	02/21/2026	08/21/2025 / Abdul	10/16/2024 / yogesh	P13691

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	02/21/2026	08/21/2025 / Abdul	10/16/2024 / yogesh	P13692

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	02/21/2026	08/21/2025 / Abdul	10/16/2024 / yogesh	P13693

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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	31097 / o-Terphenyl Standard	A0216631	02/21/2026	08/21/2025 / Abdul	10/16/2024 / yogesh	P13694

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

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	02/21/2026	08/21/2025 / Abdul	06/02/2025 / Rahul	P14028

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

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	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

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

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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	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

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

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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	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

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	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 #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	07/28/2025 / jignesh	07/25/2025 / jignesh	W3234

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

DD
06/17/2021

Catalog No. : 30541 **Lot No.:** A0172403

Description : NJEPH Aromatics Calibration Standard

NJEPH Aromatics Calibration Standard 2,000µg/mL, Methylene Chloride, 1mL/ampul

P10758 to P10762 -(5)

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

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,2,3-Trimethylbenzene **CAS #** 526-73-8 (Lot 8776.10-36) **Purity** 98%	2,010.0 µg/mL	+/- 11.7957 µg/mL +/- 90.5449 µg/mL +/- 100.4678 µg/mL	Gravimetric Unstressed Stressed
2	Naphthalene **CAS #** 91-20-3 (Lot MKBZ8680V) **Purity** 99%	2,006.0 µg/mL	+/- 11.7723 µg/mL +/- 90.3656 µg/mL +/- 100.2689 µg/mL	Gravimetric Unstressed Stressed
3	2-Methylnaphthalene **CAS #** 91-57-6 (Lot STBG8884) **Purity** 99%	2,008.0 µg/mL	+/- 11.7841 µg/mL +/- 90.4557 µg/mL +/- 100.3688 µg/mL	Gravimetric Unstressed Stressed
4	Acenaphthylene **CAS #** 208-96-8 (Lot N19U) **Purity** 95%	2,002.6 µg/mL	+/- 11.7524 µg/mL +/- 90.2125 µg/mL +/- 100.0989 µg/mL	Gravimetric Unstressed Stressed
5	Acenaphthene **CAS #** 83-32-9 (Lot MKCN0610) **Purity** 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL +/- 90.0953 µg/mL +/- 99.9689 µg/mL	Gravimetric Unstressed Stressed
6	Fluorene **CAS #** 86-73-7 (Lot 10217947) **Purity** 99%	2,016.0 µg/mL	+/- 11.8310 µg/mL +/- 90.8161 µg/mL +/- 100.7687 µg/mL	Gravimetric Unstressed Stressed
7	Phenanthrene **CAS #** 85-01-8 (Lot MKCL7390) **Purity** 99%	2,012.0 µg/mL	+/- 11.8075 µg/mL +/- 90.6359 µg/mL +/- 100.5688 µg/mL	Gravimetric Unstressed Stressed

8	Anthracene		2,002.0	µg/mL	+/-	11.7489	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKCM0015)			+/-	90.1854	µg/mL	Unstressed
	Purity 99%				+/-	100.0689	µg/mL	Stressed
9	Fluoranthene		2,003.0	µg/mL	+/-	11.7547	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot MKCF7378)			+/-	90.2305	µg/mL	Unstressed
	Purity 99%				+/-	100.1189	µg/mL	Stressed
10	Pyrene		2,011.0	µg/mL	+/-	11.8017	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCCB9880)			+/-	90.5909	µg/mL	Unstressed
	Purity 99%				+/-	100.5188	µg/mL	Stressed
11	Benz(a)anthracene		2,011.0	µg/mL	+/-	11.8014	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot P0022018-0505)			+/-	90.5890	µg/mL	Unstressed
	Purity 98%				+/-	100.5168	µg/mL	Stressed
12	Chrysene		2,000.0	µg/mL	+/-	11.7371	µg/mL	Gravimetric
	CAS # 218-01-9	(Lot STBJ8094)			+/-	90.0953	µg/mL	Unstressed
	Purity 99%				+/-	99.9689	µg/mL	Stressed
13	Benzo(b)fluoranthene		2,006.0	µg/mL	+/-	11.7721	µg/mL	Gravimetric
	CAS # 205-99-2	(Lot 012012B)			+/-	90.3638	µg/mL	Unstressed
	Purity 97%				+/-	100.2669	µg/mL	Stressed
14	Benzo(k)fluoranthene		2,010.0	µg/mL	+/-	11.7958	µg/mL	Gravimetric
	CAS # 207-08-9	(Lot 012019K)			+/-	90.5458	µg/mL	Unstressed
	Purity 99%				+/-	100.4688	µg/mL	Stressed
15	Benzo(a)pyrene		2,004.0	µg/mL	+/-	11.7606	µg/mL	Gravimetric
	CAS # 50-32-8	(Lot RP210113)			+/-	90.2755	µg/mL	Unstressed
	Purity 99%				+/-	100.1689	µg/mL	Stressed
16	Indeno(1,2,3-cd)pyrene		2,010.0	µg/mL	+/-	11.7958	µg/mL	Gravimetric
	CAS # 193-39-5	(Lot 1-RAK-33-4)			+/-	90.5458	µg/mL	Unstressed
	Purity 99%				+/-	100.4688	µg/mL	Stressed
17	Dibenz(a,h)anthracene		2,017.0	µg/mL	+/-	11.8369	µg/mL	Gravimetric
	CAS # 53-70-3	(Lot ER032211-01)			+/-	90.8611	µg/mL	Unstressed
	Purity 99%				+/-	100.8187	µg/mL	Stressed
18	Benzo(g,h,i)perylene		2,003.0	µg/mL	+/-	11.7547	µg/mL	Gravimetric
	CAS # 191-24-2	(Lot 8GFYJ)			+/-	90.2305	µg/mL	Unstressed
	Purity 99%				+/-	100.1189	µg/mL	Stressed

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

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

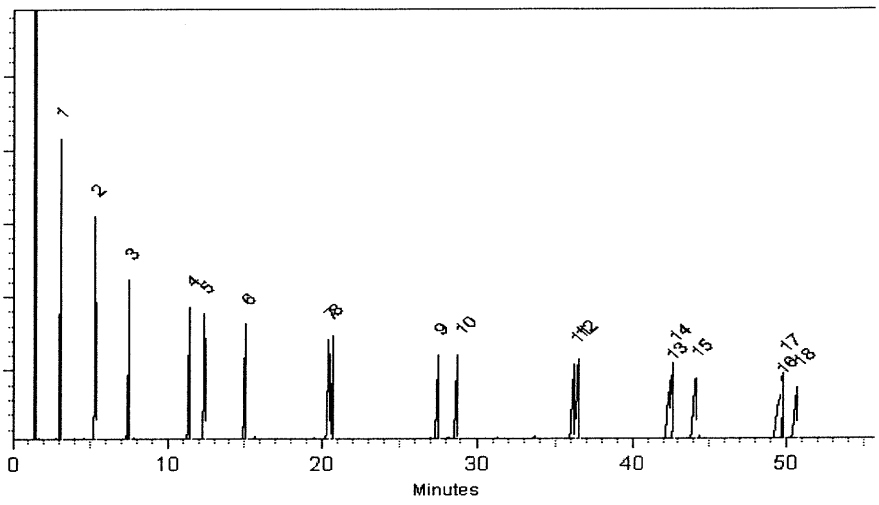
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Lane Kibe - Mix Technician

Date Mixed: 14-May-2021 **Balance:** B345965662

Alexis Shelow - Operations Tech I

Date Passed: 18-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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.

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

VWR®
BDH® CHEMICALS

Certificate of Analysis

Material	BDH9274-2.5KG
Material Description	BDH SAND STDD OTTAWA W+I 2.5KG
Grade	NOT APPLICABLE
Batch	25A2756718
Reassay Date	12/31/2028
CAS Number	14808-60-7
Molecular Formula	SiO2
Molecular Mass	60.09
Date of Manufacture	12/05/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Beige granules.	Beige granules.
Moisture	<= 0.1 %	0.1 %
Particle Size 30-40 mesh	>= 80 %	99 %
CUSTOMER PART # BDH9274-2.5KG		

Received on 7/9/25.

E3951

Internal ID #: 793

Signature	Additional Information
We certify that this batch conforms to the specifications listed above.	Analysis may have been rounded to significant digits in specification limits
This document has been electronically produced and is valid without a signature.	Product meets analytical specifications of the grades listed.
Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	

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

PO: PO2-2575 PRODUCT CODE: SHIP DATE: 6/20/25

Acetone,
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 %	<0.1 %
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

Recieved on 8/6/25

E 3963

J Croak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

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

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

E3971

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

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

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95709
Lot Number: 060420
Description: NJ EPH Aromatic Hydrocarbons
18 components
Expiration Date: 060425
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 23060

Solvent(s):	Lot#
Methylene chloride	104929

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 500.0 0.058 Flask Uncertainty

Formulated By: Benson Chan	060420 DATE
Reviewed By: Pedro L. Rentas	060420 DATE

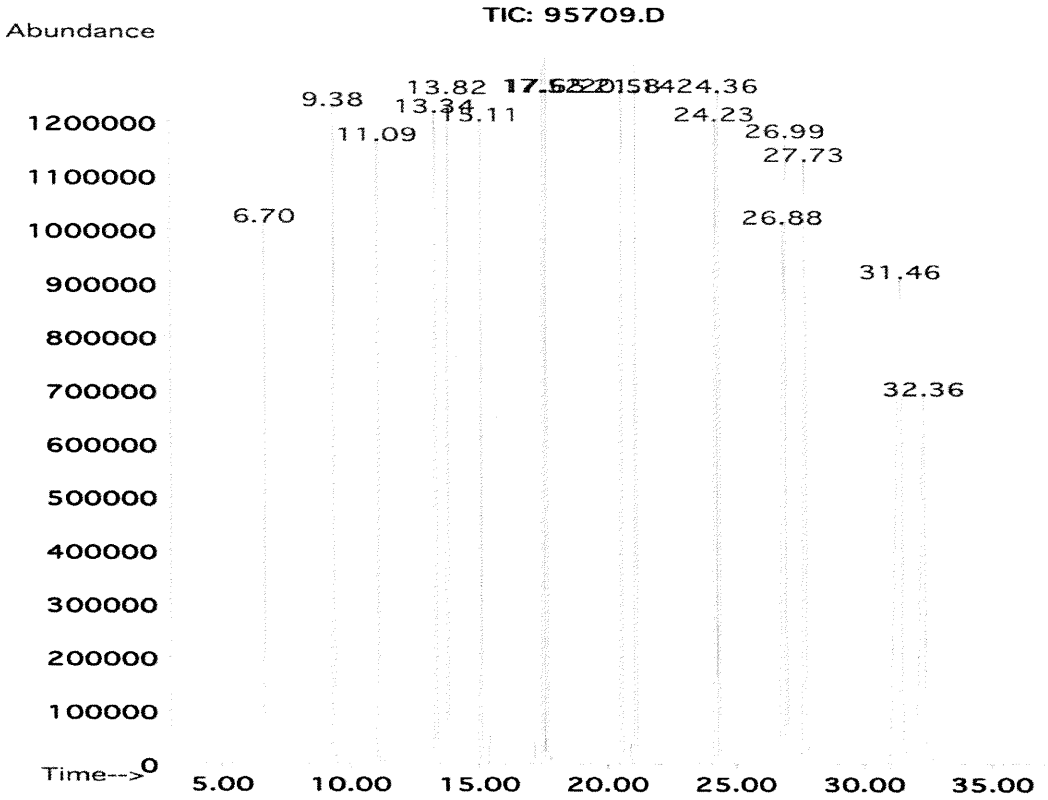
	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acenaphthene	1	MKBJ4871V	2000	99	0.2	1.01003	1.01010	2000.1	8.1	83-32-9	N/A	ipr-rat 600mg/kg
2.	Acenaphthylene	3	012014	2000	98	0.2	1.02033	1.02053	2000.4	8.2	208-96-8	N/A	N/A
3.	Anthracene	13	A0210580	2000	99	0.2	1.01003	1.01009	2000.1	8.1	120-12-7	0.2mg/m3 (8H)	ipr-mus 430mg/kg
4.	Benzo(a)anthracene	28	JY2TD-JT	2000	98	0.2	1.02033	1.02051	2000.3	8.2	56-55-3	N/A	N/A
5.	Benzo(a)pyrene	30	012012	2000	99.5	0.2	1.00495	1.00511	2000.3	8.1	50-32-8	0.2mg/m3 (8H)	scu-rat 50mg/kg
6.	Benzo(b)fluoranthene	31	012012b	2000	99	0.2	1.01003	1.01012	2000.2	8.1	205-99-2	N/A	N/A
7.	Benzo(k)fluoranthene	33	012012k	2000	99	0.2	1.01003	1.01018	2000.3	8.1	207-08-9	N/A	N/A
8.	Benzo(g,h,i)perylene	32	012018	2000	99	0.2	1.01003	1.01019	2000.3	8.1	191-24-2	N/A	N/A
9.	Chrysene	91	012015	2000	98	0.2	1.02033	1.02040	2000.1	8.2	218-01-9	0.2mg/m3	N/A
10.	Dibenzo(a,h)anthracene	112	012011	2000	98	0.2	1.02033	1.02050	2000.3	8.2	53-70-3	0.2mg/m3	N/A
11.	Fluoranthene	183	04221PV	2000	98	0.2	1.02033	1.02050	2000.3	8.2	206-44-0	N/A	orl-rat 2000mg/kg
12.	Fluorene	184	07211MV	2000	98	0.2	1.02033	1.02047	2000.3	8.2	86-73-7	N/A	ipr-mus 2 g/kg
13.	Indeno(1,2,3-cd)pyrene	202	012014	2000	99.9	0.2	1.00093	1.00119	2000.5	8.0	193-39-5	N/A	N/A
14.	2-Methylnaphthalene	214	MKBF3783V	2000	97	0.2	1.03085	1.03090	2000.1	8.3	91-57-6	N/A	orl-rat 1630mg/kg
15.	Naphthalene	222	MKBZ8680V	2000	100	0.2	0.99993	0.99999	2000.1	8.0	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
16.	Phenanthrene	248	03410PV	2000	99	0.2	1.01003	1.01030	2000.5	8.1	85-01-8	0.2mg/m3/8H	orl-mus 700mg/kg
17.	Pyrene	259	010197	2000	98	0.2	1.02033	1.02042	2000.2	8.2	129-00-0	0.2mg/m3/8H	orl-rat 2700mg/kg
18.	1,2,3-Trimethylbenzene	944	031097	2000	99	0.2	1.01003	1.01025	2000.4	8.1	526-73-8	N/A	N/A

P11137
&
P11141

AR 11/02/21

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC8MSD-2.M: Column:SPB-5 (30m X 0.25mm ID X 0.25μm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (14min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Melissa Stonier.



Peak No.	Name	MSD RT (min.)
1	1,2,3-Trimethylbenzene	6.70
2	Naphthalene	9.38
3	2-Methylnaphthalene	11.09
4	Acenaphthylene	13.34
5	Acenaphthene	13.82
6	Fluorene	15.11
7	Phenanthrene	17.52
8	Anthracene	17.65
9	Fluoranthene	20.58
10	Pyrene	21.14
11	Chrysene	24.23
12	Benzo(a)anthracene	24.36
13	Benzo(b)fluoranthene/Benzo(k)fluoranthene	26.98
14	Benzo(a)pyrene	27.73
15	Indeno(1,2,3-cd)pyrene/Dibenzo(a,h)anthracene	31.46
16	Benzo(g,h,i)perylene	32.36

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

P12361 ↓ P12370 } Y.P. 03/16/23

Catalog No. : 30540 **Lot No.:** A0190424

Description : NJEPH Aliphatics Calibration Standard

Aliphatics Calibration Standard 2000µg/mL, Hexane/Carbon Disulfide (80:20), 1mL/ampul

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

Expiration Date : November 30, 2029 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Nonane (C9) **CAS #** 111-84-2 (Lot SHBN5361) **Purity** 99%	2,014.0 µg/mL	+/- 11.8193 µg/mL +/- 50.0027 µg/mL +/- 59.9491 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) **CAS #** 124-18-5 (Lot SHBN8619) **Purity** 99%	2,014.7 µg/mL	+/- 11.8232 µg/mL +/- 50.0193 µg/mL +/- 59.9689 µg/mL	Gravimetric Unstressed Stressed
3	Naphthalene **CAS #** 91-20-3 (Lot MKCH0219) **Purity** 99%	2,015.3 µg/mL	+/- 11.8271 µg/mL +/- 50.0358 µg/mL +/- 59.9888 µg/mL	Gravimetric Unstressed Stressed
4	n-Dodecane (C12) **CAS #** 112-40-3 (Lot SHBN7174) **Purity** 99%	2,008.0 µg/mL	+/- 11.7841 µg/mL +/- 49.8538 µg/mL +/- 59.7705 µg/mL	Gravimetric Unstressed Stressed
5	2-Methylnaphthalene **CAS #** 91-57-6 (Lot STBK0259) **Purity** 96%	2,007.0 µg/mL	+/- 11.7784 µg/mL +/- 49.8299 µg/mL +/- 59.7419 µg/mL	Gravimetric Unstressed Stressed
6	n-Tetradecane (C14) **CAS #** 629-59-4 (Lot STBK2282) **Purity** 99%	2,016.7 µg/mL	+/- 11.8349 µg/mL +/- 50.0689 µg/mL +/- 60.0284 µg/mL	Gravimetric Unstressed Stressed
7	n-Hexadecane (C16) **CAS #** 544-76-3 (Lot SHBM4146) **Purity** 98%	2,014.9 µg/mL	+/- 11.8244 µg/mL +/- 50.0246 µg/mL +/- 59.9753 µg/mL	Gravimetric Unstressed Stressed

8	n-Octadecane (C18) **CAS #** 593-45-3 **Purity** 97%	(Lot VZKOJ)	2,004.7	µg/mL	+/- 11.7645 +/- 49.7710 +/- 59.6712	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Eicosane (C20) **CAS #** 112-95-8 **Purity** 99%	(Lot MKCF7888)	2,018.0	µg/mL	+/- 11.8428 +/- 50.1020 +/- 60.0681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Heneicosane (C21) **CAS #** 629-94-7 **Purity** 99%	(Lot MKCL3226)	2,000.7	µg/mL	+/- 11.7410 +/- 49.6717 +/- 59.5522	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Docosane (C22) **CAS #** 629-97-0 **Purity** 99%	(Lot MKCL8918)	2,005.3	µg/mL	+/- 11.7684 +/- 49.7876 +/- 59.6911	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Tetracosane (C24) **CAS #** 646-31-1 **Purity** 99%	(Lot MKCN2863)	2,018.0	µg/mL	+/- 11.8428 +/- 50.1020 +/- 60.0681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexacosane (C26) **CAS #** 630-01-3 **Purity** 99%	(Lot MKCD4540)	2,014.0	µg/mL	+/- 11.8193 +/- 50.0027 +/- 59.9491	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Octacosane (C28) **CAS #** 630-02-4 **Purity** 99%	(Lot BCCG0084)	2,002.0	µg/mL	+/- 11.7489 +/- 49.7048 +/- 59.5919	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Triacontane (C30) **CAS #** 638-68-6 **Purity** 97%	(Lot MKCQ9436)	2,011.1	µg/mL	+/- 11.8025 +/- 49.9316 +/- 59.8637	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Dotriacontane (C32) **CAS #** 544-85-4 **Purity** 99%	(Lot BCBW0661)	2,012.0	µg/mL	+/- 11.8075 +/- 49.9531 +/- 59.8895	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetratriacontane (C34) **CAS #** 14167-59-0 **Purity** 99%	(Lot OML4N)	2,006.7	µg/mL	+/- 11.7762 +/- 49.8207 +/- 59.7308	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	n-Hexatriacontane (C36) **CAS #** 630-06-8 **Purity** 99%	(Lot Z27H018)	2,017.3	µg/mL	+/- 11.8388 +/- 50.0855 +/- 60.0483	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	n-Octatriacontane (C38) **CAS #** 7194-85-6 **Purity** 96%	(Lot 0000145137)	2,017.3	µg/mL	+/- 11.8385 +/- 50.0842 +/- 60.0467	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	n-Tetracontane (C40) **CAS #** 4181-95-7 **Purity** 99%	(Lot BSBME)	2,008.7	µg/mL	+/- 11.7880 +/- 49.8703 +/- 59.7903	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane/Carbon disulfide (80:20)
CAS # 110-54-3/75-15-0
Purity 99%

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

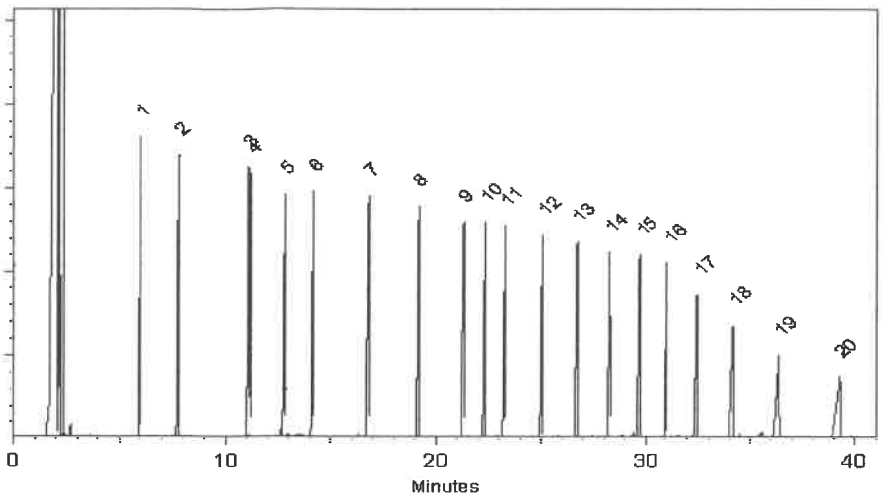
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Morgan Craighead - Mix Technician

Date Mixed: 10-Oct-2022 **Balance:** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

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

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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.
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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).

RESTEK
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Bellefonte, PA 16823-8812
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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. : 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.)

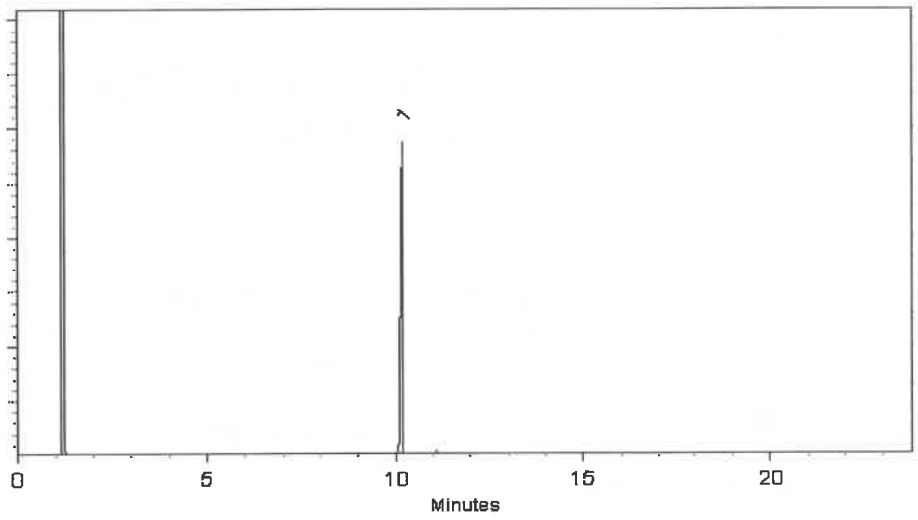
Inj. Temp:
250°C

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:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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.)

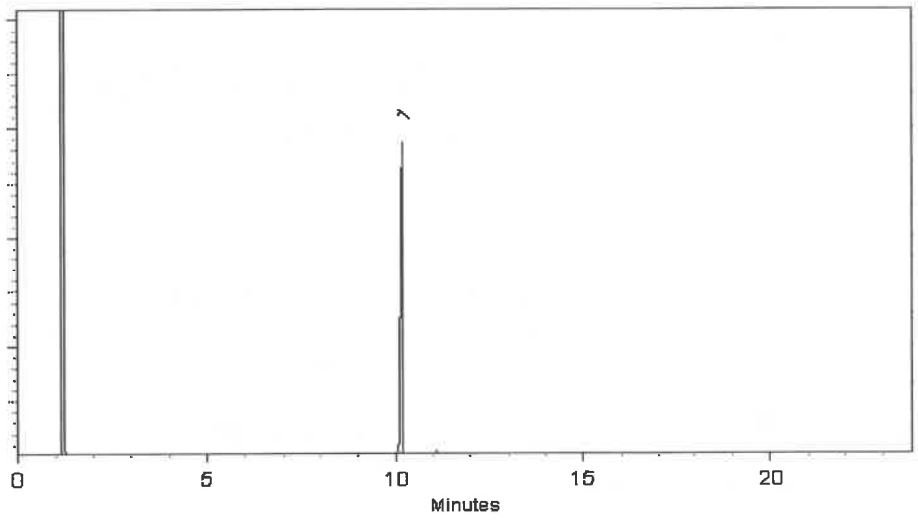
Inj. Temp:
250°C

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.
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CERTIFIED REFERENCE MATERIAL

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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. : 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.)

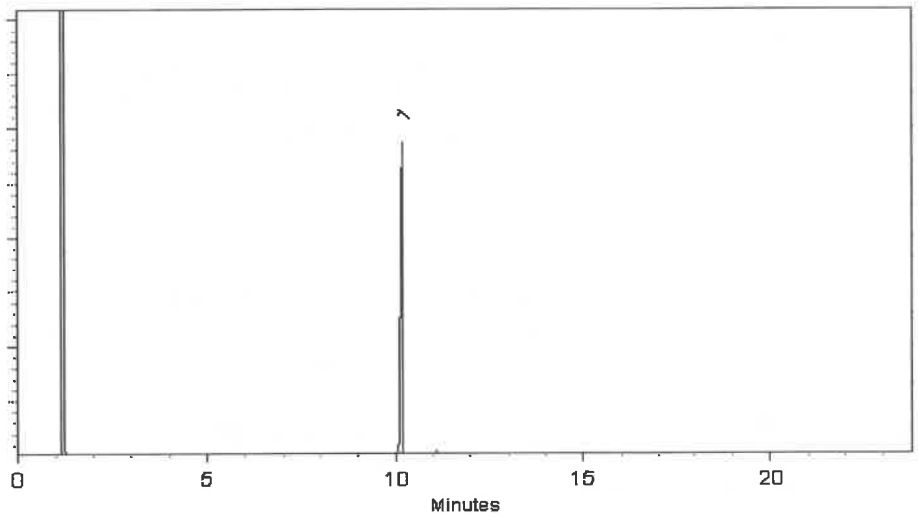
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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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.
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Certified Uncertainty Value Notes:

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

Manufacturing Notes:

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

Handling Notes:

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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.)

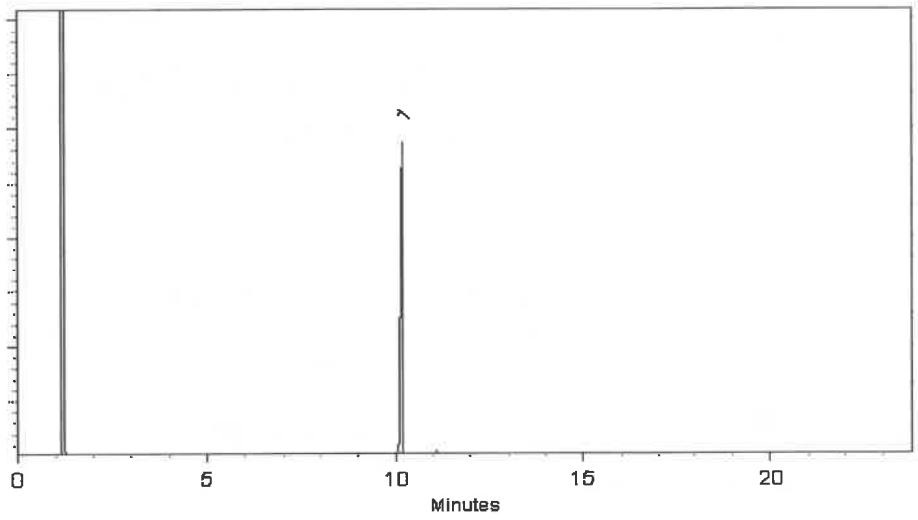
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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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:

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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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Manufacturing Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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.)

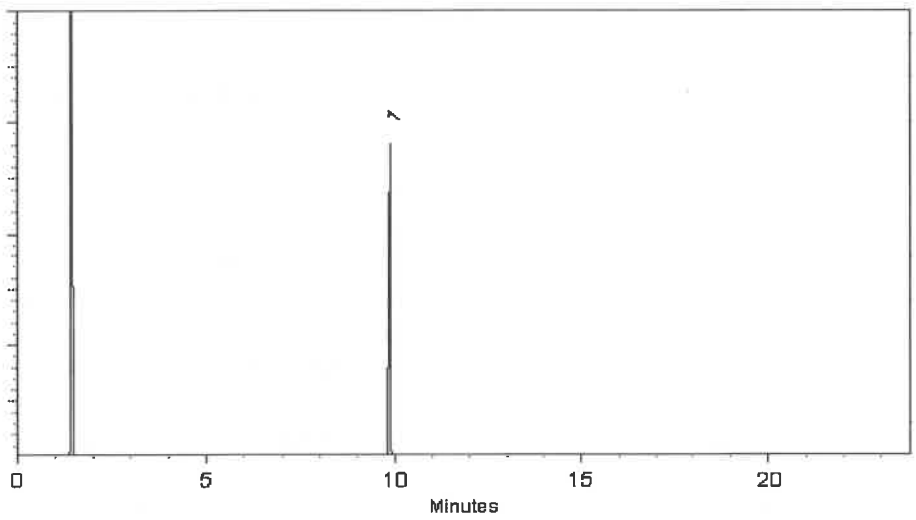
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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

Catalog No. : 31097 **Lot No.:** 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.)

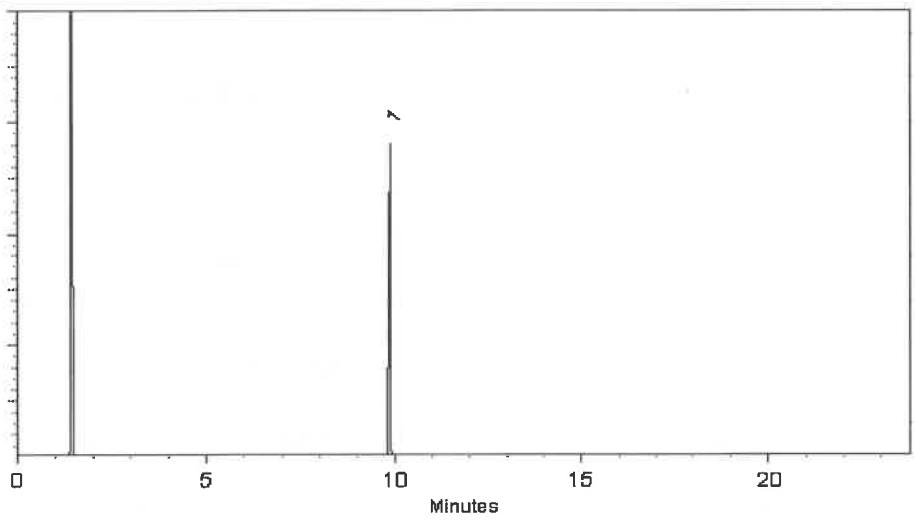
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

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Description : o-Terphenyl Standard

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

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

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13645
↓
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)
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Purity 99%

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Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

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@ 20°C/min. (hold 10 min.)

Inj. Temp:
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Det. Temp:
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Det. Type:
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Split Vent:
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Inj. Vol
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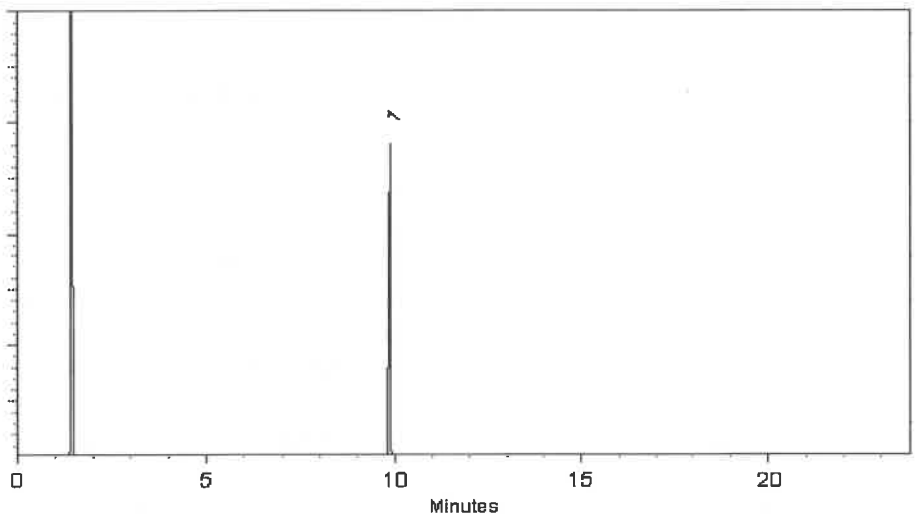

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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

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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.)

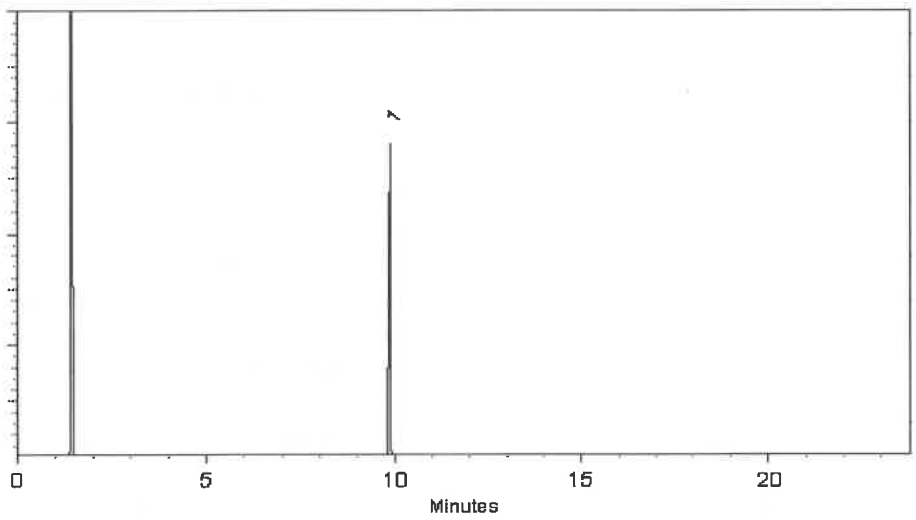
Inj. Temp:
250°C

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

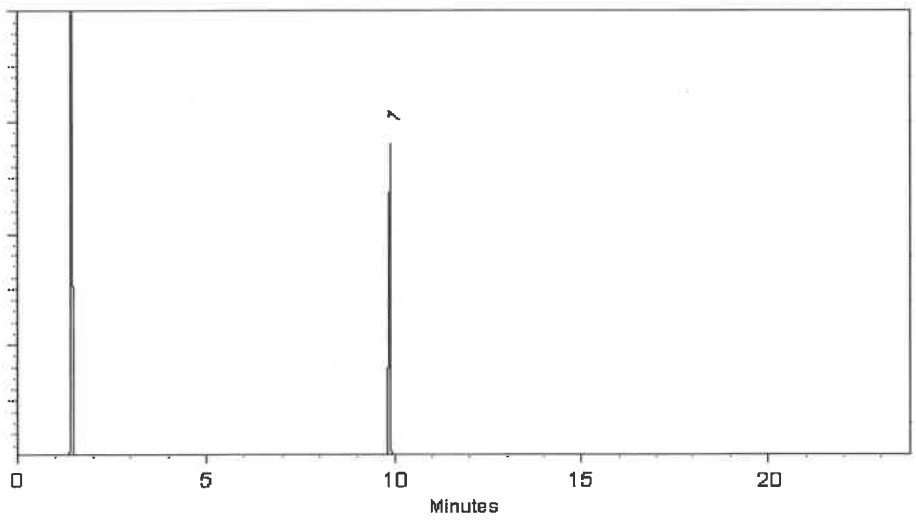
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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

Catalog No. : 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
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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.)

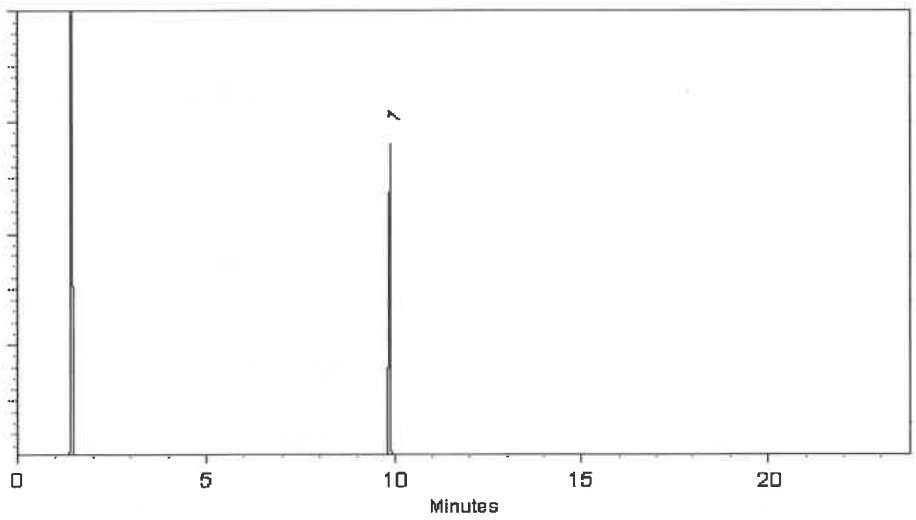
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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

Handling Notes:

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Catalog No. : 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.)

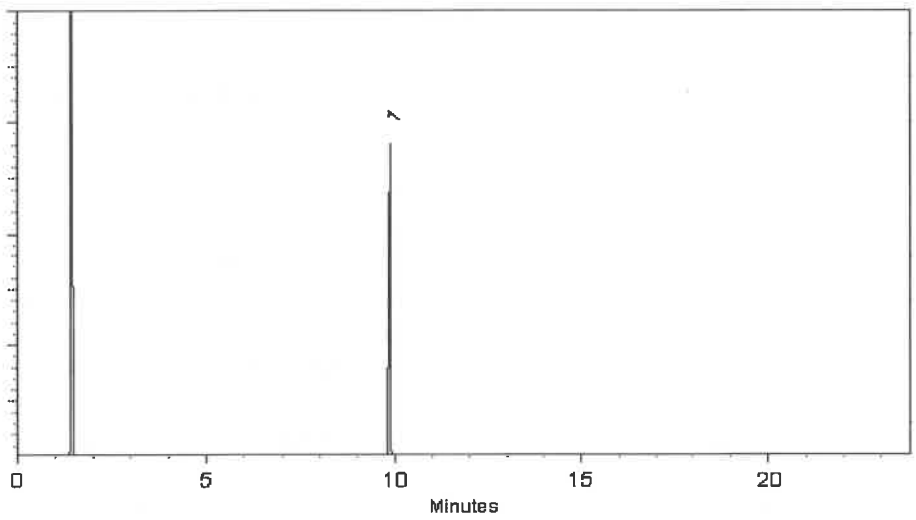
Inj. Temp:
250°C

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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Manufacturing Notes:

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Handling Notes:

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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.)

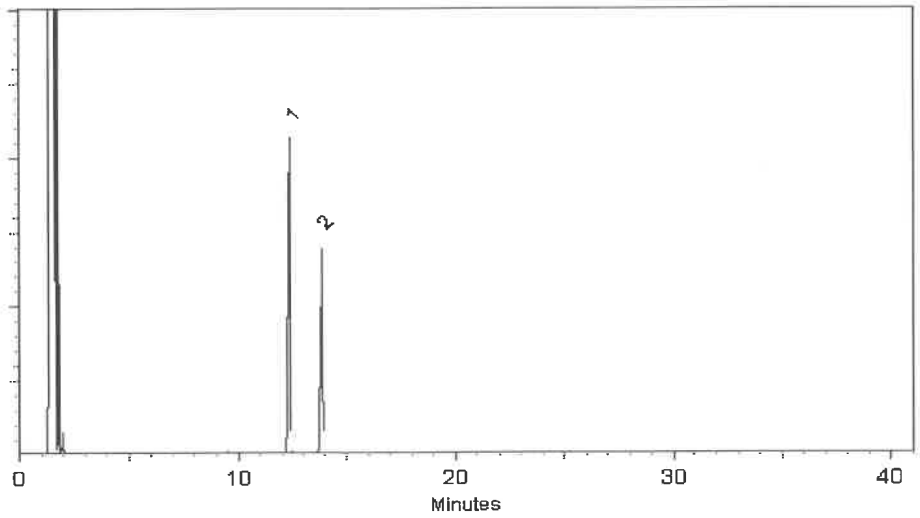
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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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.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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Catalog No. : 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.)

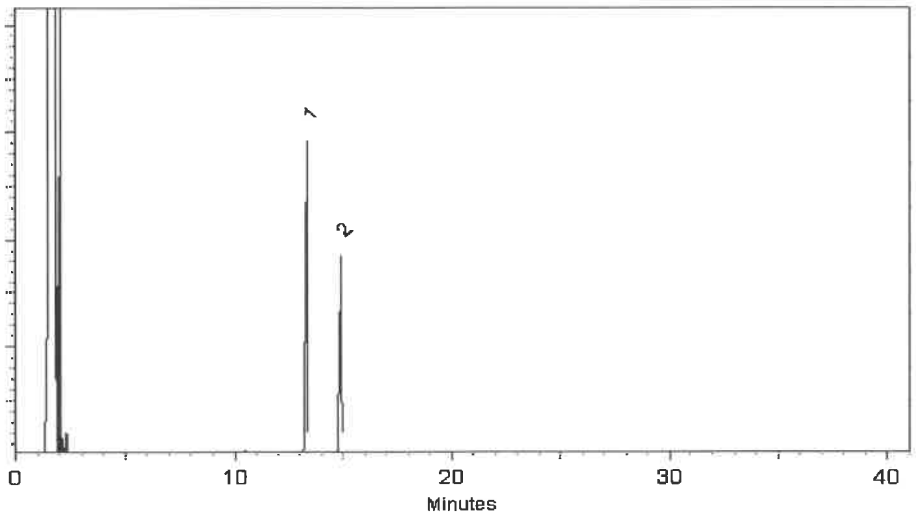
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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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.
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Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- 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

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.)

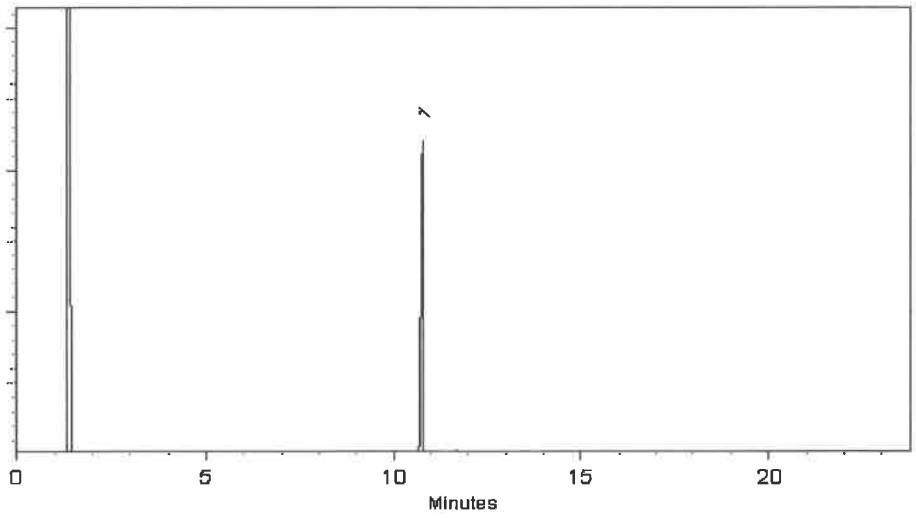
Inj. Temp:
250°C

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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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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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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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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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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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.)

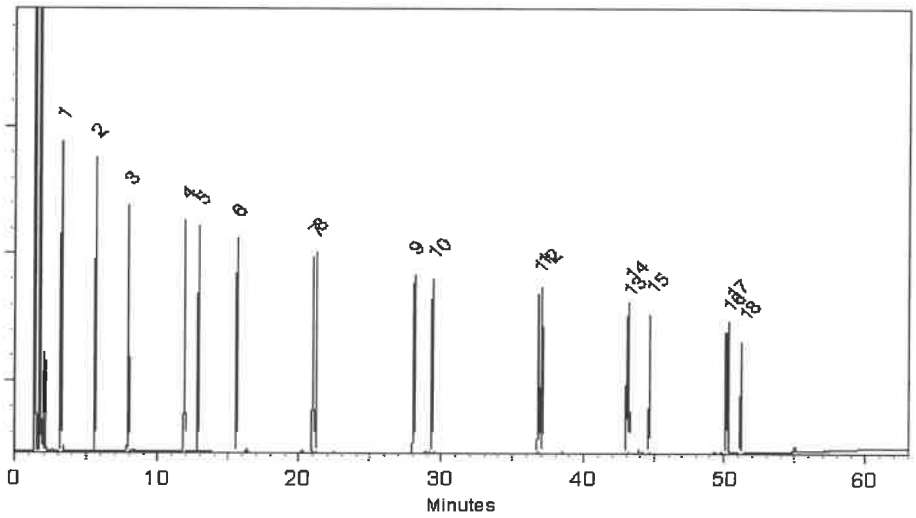
Inj. Temp:
250°C

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.)

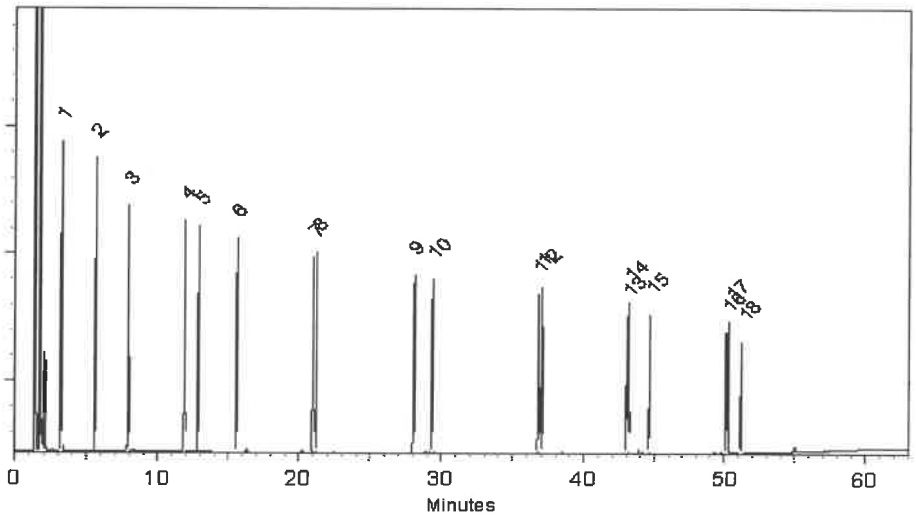
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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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
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.)

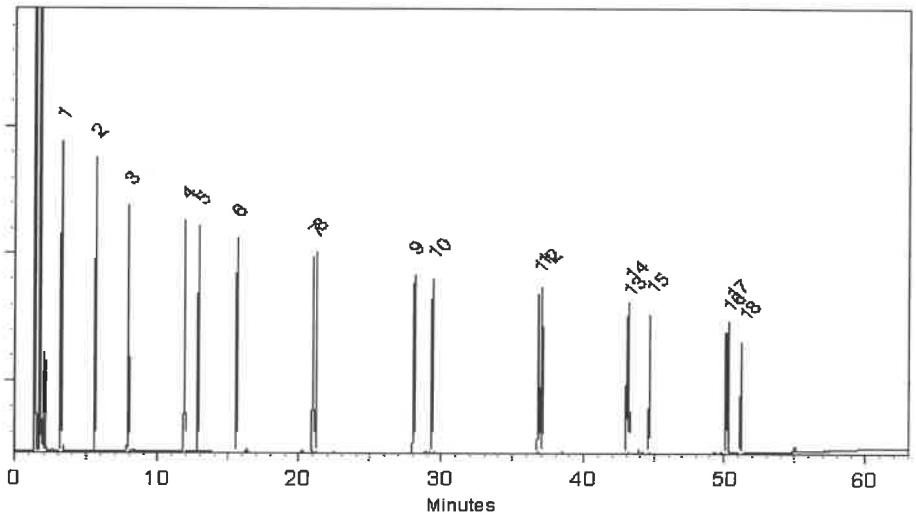
Inj. Temp:
250°C

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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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.)

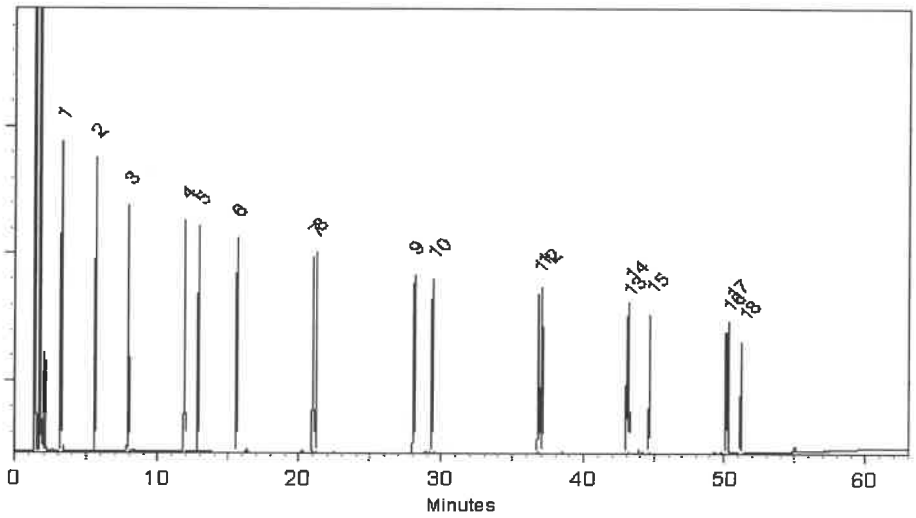
Inj. Temp:
250°C

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 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.)

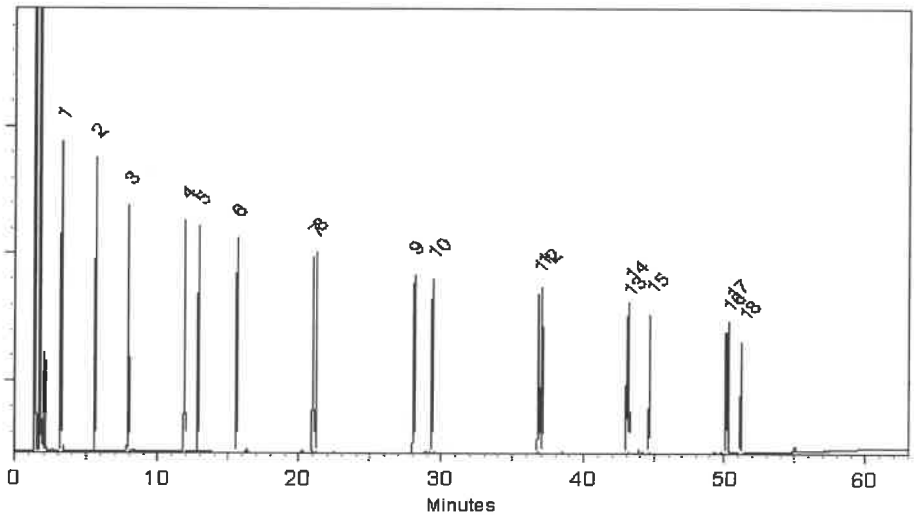
Inj. Temp:
250°C

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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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.)

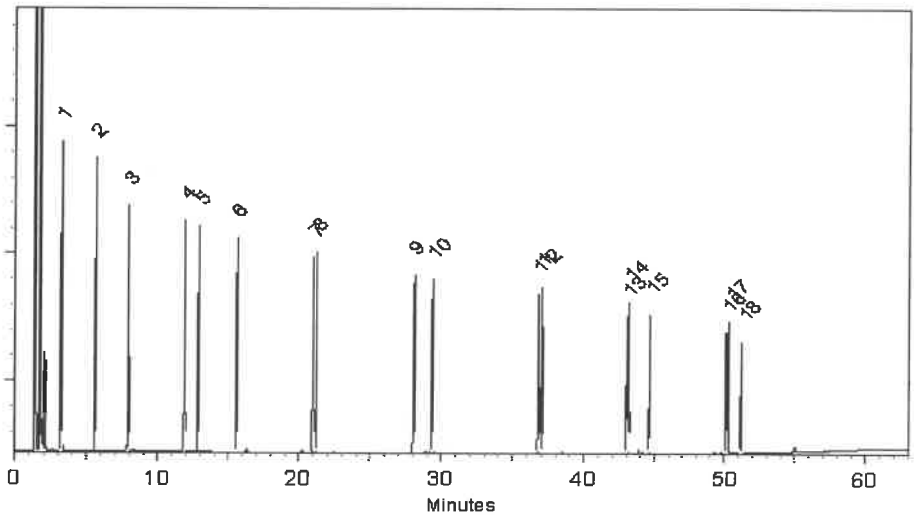
Inj. Temp:
250°C

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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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
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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
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.)

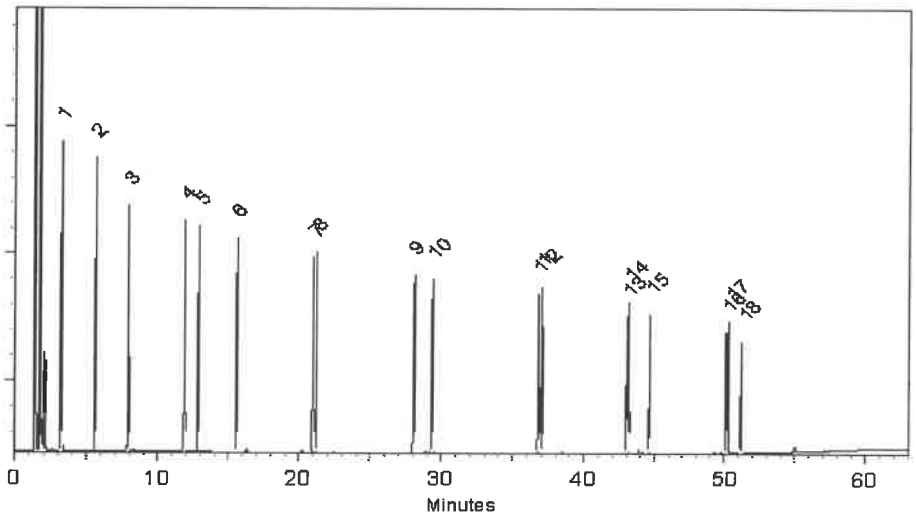
Inj. Temp:
250°C

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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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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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
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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.)

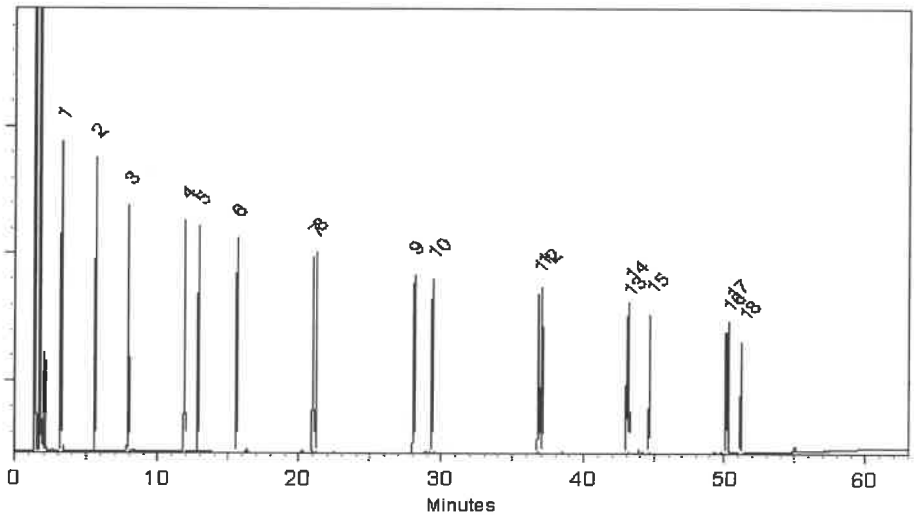
Inj. Temp:
250°C

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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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
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.)

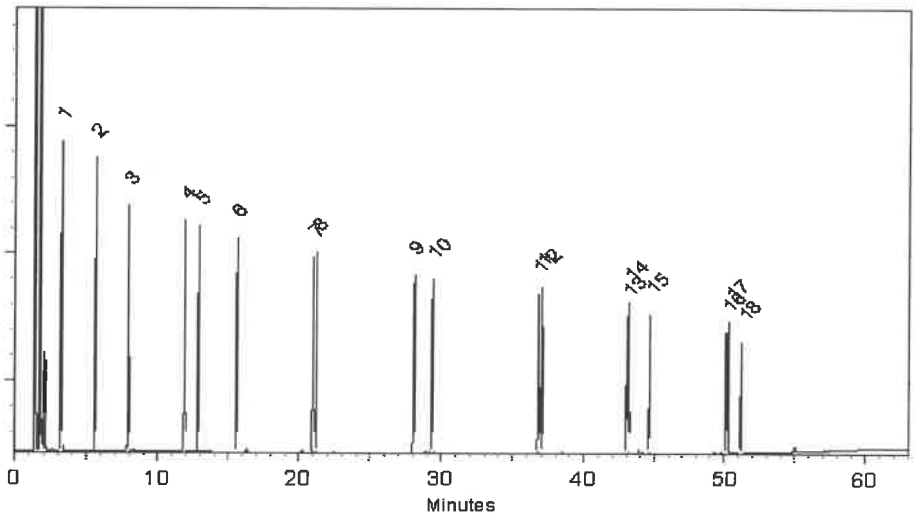
Inj. Temp:
250°C

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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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.)

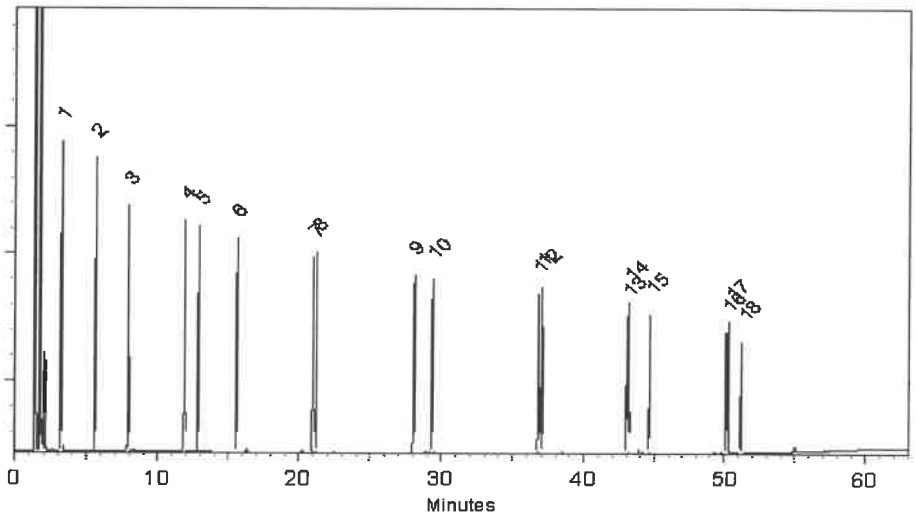
Inj. Temp:
250°C

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. : 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.)

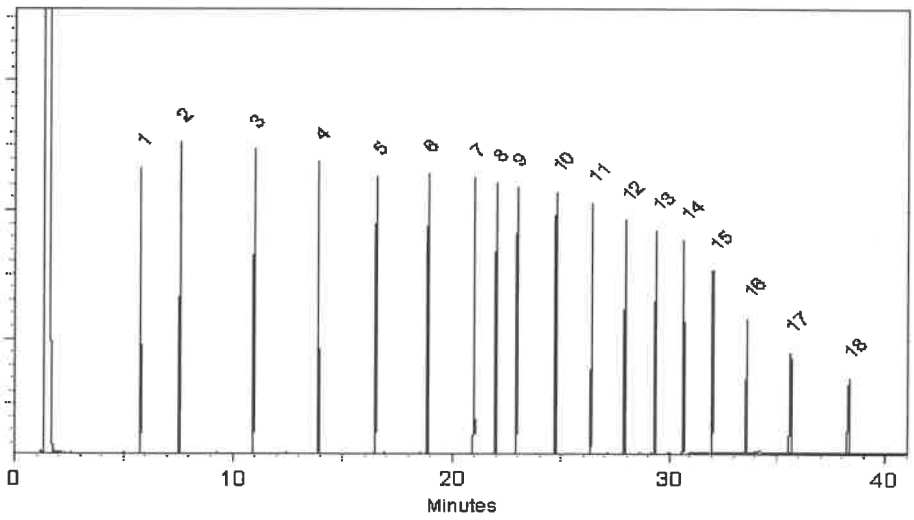
Inj. Temp:
250°C

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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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.)

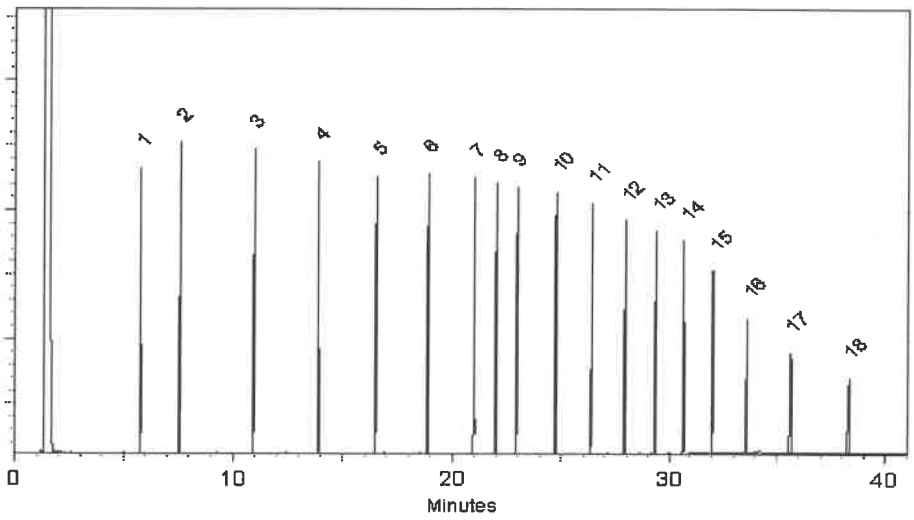
Inj. Temp:
250°C

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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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.)

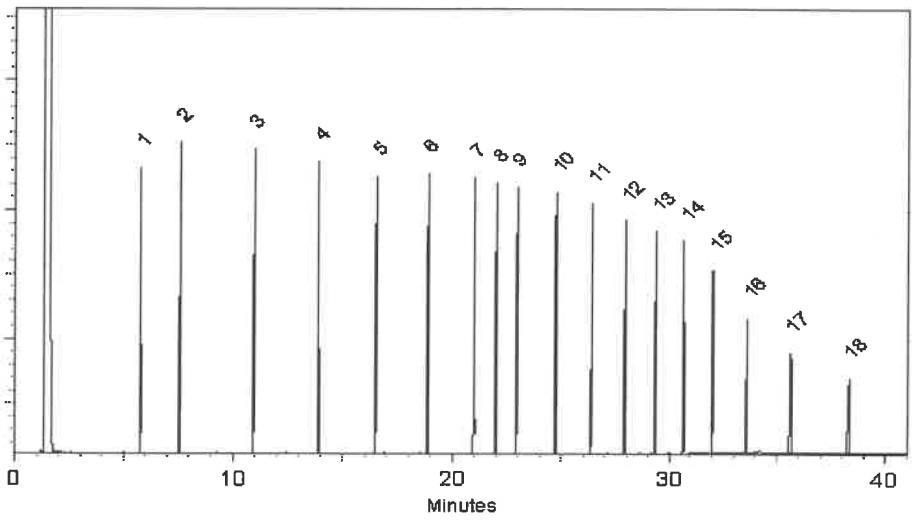
Inj. Temp:
250°C

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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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.)

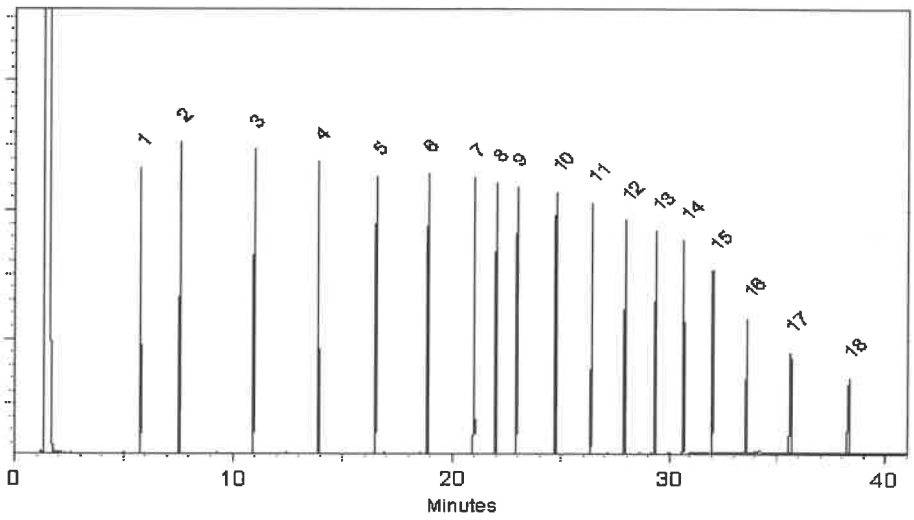
Inj. Temp:
250°C

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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Fax: 1-814-353-1309

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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.)

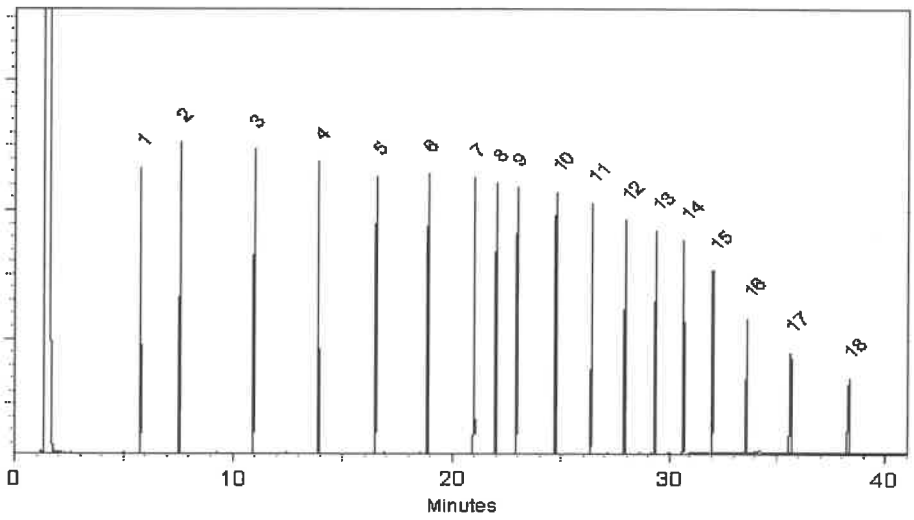
Inj. Temp:
250°C

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.)

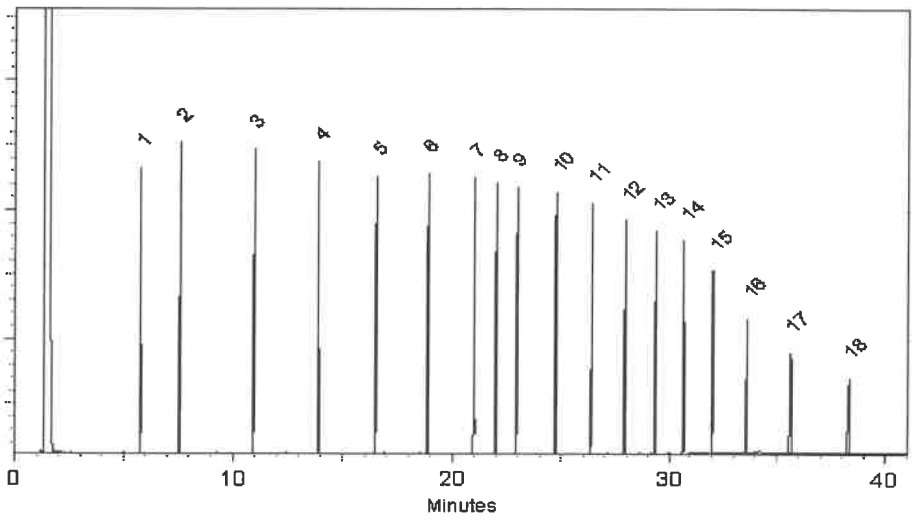
Inj. Temp:
250°C

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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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
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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.)

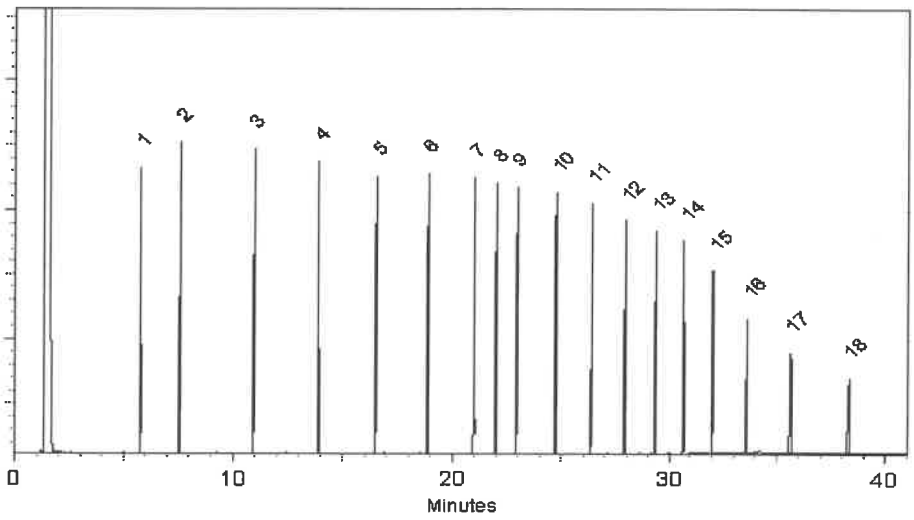
Inj. Temp:
250°C

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
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Solvent: n-Pentane
CAS # 109-66-0
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:
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Det. Type:
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Inj. Vol
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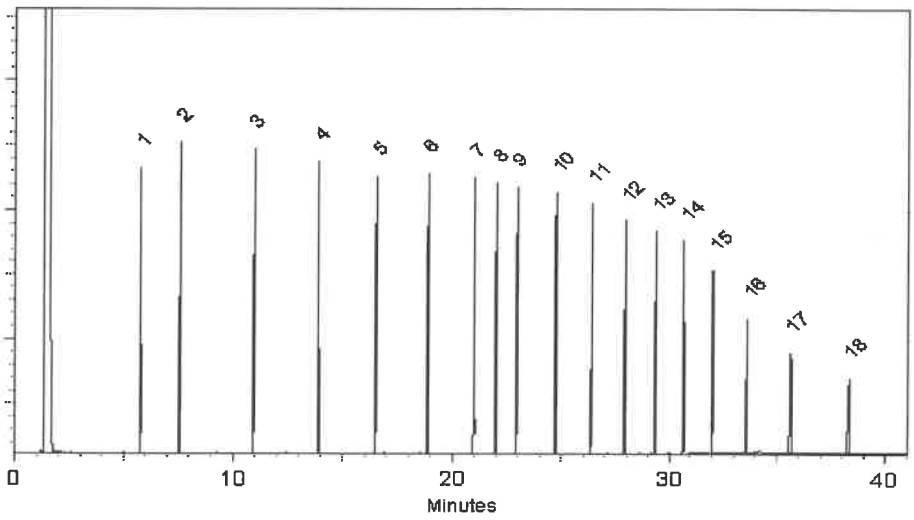

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Aaron Enyart - Operations Tech I

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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Expiration Date : July 31, 2032 **Storage:** 10°C or colder

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P14094 ↓ P14103 } AC 7/16/25

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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
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
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Rtx-5 (cat.#10223)

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Inj. Vol
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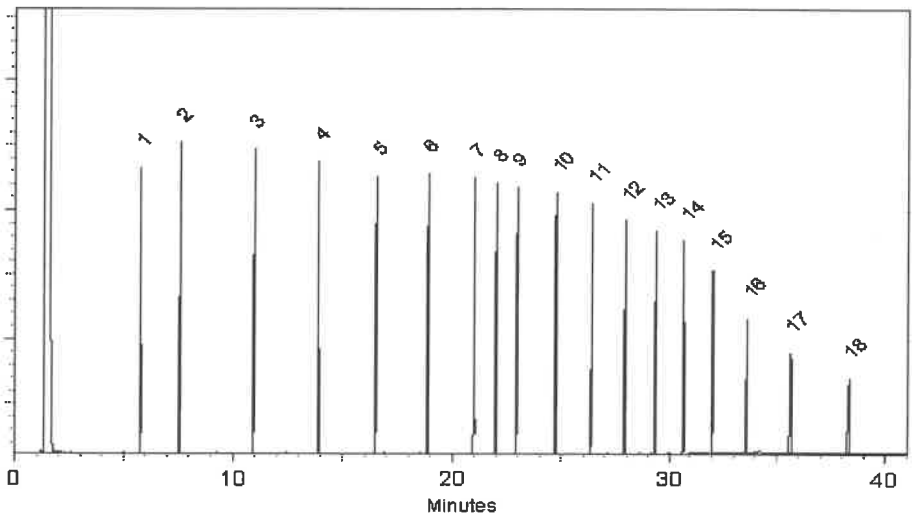

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Aaron Enyart - Operations Tech I

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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.)

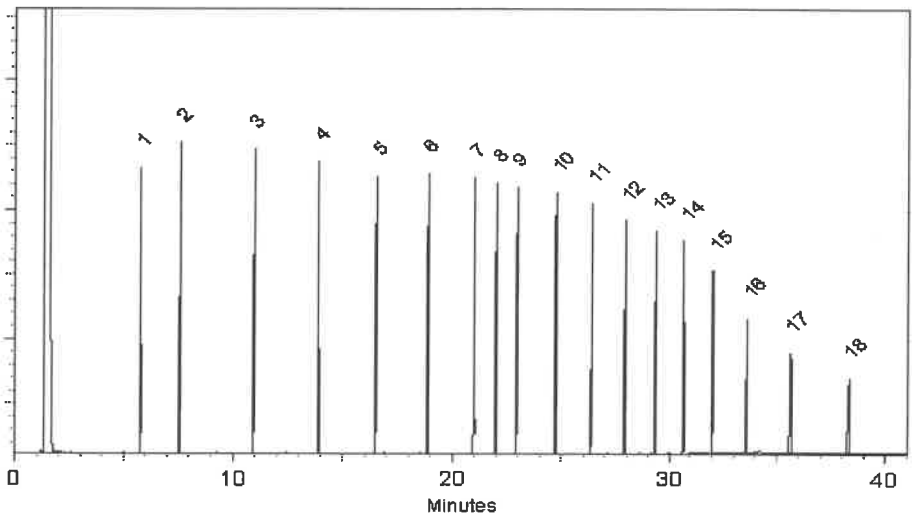
Inj. Temp:
250°C

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

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™ | J.T.Baker

W3234 JB
Update: 07/28/2025

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

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q 3192
COC Number 2045038

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Environmental
ADDRESS: 8 Carlton
CITY Succasunna STATE: NJ ZIP: 07876
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: TGP
PROJECT NO.: LOCATION: NJ
PROJECT MANAGER: GL
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Environmental PO#:
ADDRESS: 8 Carlton
CITY Succasunna STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Rush 24hrs DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other
☒ EDD FORMAT NJDEP excel pdf

ANALYSIS

1: 2 EPH Cat 3. 4 EPH Fractions 5: 6 7 8 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2 (ice)	3	4 (ice)	5	6	7	8	9	COMMENTS
1.	RB104	Soil		X	9/24/25	1430	2		X		X						
2.	RB105	Soil		X	9/24/25	1400	2		X		X						
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	9/24/25 1512	1.
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.3 °C
Comments: EPH Cat 3

Page _____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

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