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Cover Page

Order ID : Q1241

Project ID : NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Client : RU2 Engineering, LLC

Lab Sample Number	Client Sample Number
Q1241-01	JPP-3.5-013025
Q1241-02	JPP-3.5-013025
Q1241-03	JPP-3.5-013025
Q1241-04	JPP-3.5-013025
Q1241-05	JPP-5.3-013025
Q1241-06	JPP-5.3-013025
Q1241-07	JPP-5.3-013025
Q1241-08	JPP-5.3-013025
Q1241-09	JPP-5.2-013025
Q1241-10	JPP-5.2-013025
Q1241-11	JPP-5.2-013025
Q1241-12	JPP-5.2-013025
Q1241-13	JPP-5.4-013025
Q1241-14	JPP-5.4-013025
Q1241-15	JPP-5.4-013025
Q1241-16	JPP-5.4-013025
Q1241-17	JPP-51.4-013025
Q1241-18	JPP-51.4-013025
Q1241-19	JPP-51.4-013025
Q1241-20	JPP-51.4-013025

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

Signature : _____

Date: 2/7/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

RU2 Engineering, LLC
Project Name: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Project # N/A
Chemtech Project # Q1241
Test Name: Diesel Range Organics

A. Number of Samples and Date of Receipt:
20 Solid samples were received on 01/30/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, Diesel Range Organics, Gasoline Range Organics, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, Pesticide-TCL, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL and VOCMS Group1. This data package contains results for Diesel Range Organics.

C. Analytical Techniques:
The analysis were performed on instrument FID_E. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis of Diesel Range Organics was based on method 8015D and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for JPP-3.5-013025 [Tetracosane-d50 - 132%] but this sample was required dilution as well due to high concentration, therefore no further corrective action taken.

The Retention Times were acceptable for all samples.

The MS {Q1241-05MS} with File ID: FE052181.D recoveries met the requirements for all compounds except for DRO[-241.5%] Due to matrix interference.
The MSD {Q1241-05MSD} with File ID: FE052182.D recoveries met the acceptable requirements except for DRO[-214.5%] Due to matrix interference.

The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

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Samples JPP-3.5-013025, JPP-5.3-013025, JPP-5.2-013025, JPP-5.4-013025 and JPP-51.4-013025 were diluted due to bad matrices ,The above sample original run is reported as screening data in miscellaneous data.

E. Additional Comments:

The soil samples results are based on a dry weight basis.

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

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1241 MATRIX: Solid

METHOD: 8015D/3541

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified.			✓
2.	Standard Summary Submitted.			✓
3.	Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
5.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria except for JPP-3.5-013025 [Tetracosane-d50 - 132%] but this sample was required dilution as well due to high concentration, therefore no further corrective action taken.		✓	
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS {Q1241-05MS} with File ID: FE052181.D recoveries met the requirements for all compounds except for DRO[-241.5%] Due to matrix interference. The MSD {Q1241-05MSD} with File ID: FE052182.D recoveries met the acceptable requirements except for DRO[-214.5%] Due to matrix interference. The Blank Spike met requirements for all samples . The RPD met criteria .		✓	
7.	Retention Time Shift Meet Criteria (if applicable) Comments:			✓
8.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

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

ADDITIONAL COMMENTS:

Samples JPP-3.5-013025, JPP-5.3-013025, JPP-5.2-013025, JPP-5.4-013025 and JPP-51.4-013025 were diluted due to bad matrices ,The above sample original run is reported as screening data in miscellaneous data.

The soil samples results are based on a dry weight basis.

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q1241**

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

QA Review Signature: **SOHIL JODHANI** **Date:** **02/07/2025**

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LAB CHRONICLE

OrderID:	Q1241	**OrderDate:**	1/30/2025 2:58:00 PM
Client:	RU2 Engineering, LLC	**Project:**	NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Contact:	Rutu Manani	**Location:**	E11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1241-01	**JPP-3.5-013025**	**SOIL**			**01/30/25**			**01/30/25**
			Diesel Range Organics	8015D		01/31/25	01/31/25	
			Gasoline Range Organics	8015D			01/31/25	
Q1241-05	**JPP-5.3-013025**	**SOIL**			**01/30/25**			**01/30/25**
			Diesel Range Organics	8015D		01/31/25	01/31/25	
			Gasoline Range Organics	8015D			01/31/25	
Q1241-09	**JPP-5.2-013025**	**SOIL**			**01/30/25**			**01/30/25**
			Diesel Range Organics	8015D		01/31/25	01/31/25	
			Gasoline Range Organics	8015D			01/31/25	
Q1241-13	**JPP-5.4-013025**	**SOIL**			**01/30/25**			**01/30/25**
			Diesel Range Organics	8015D		01/31/25	01/31/25	
			Gasoline Range Organics	8015D			01/31/25	
Q1241-17	**JPP-51.4-013025**	**SOIL**			**01/30/25**			**01/30/25**
			Diesel Range Organics	8015D		01/31/25	01/31/25	
			Gasoline Range Organics	8015D			01/31/25	

QC
SUMMARY

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SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: RU2 Engineering, LLC

Lab Code: CHEM Case No.: Q1241 SAS No.: Q1241 SDG No.: Q1241

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FE052167.D	90				0
PIBLK-FE052179.D	82				0
PIBLK-FE052189.D	87				0
PB166415BL	87				0
PB166415BS	94				0
JPP-3.5-013025	132 *				1
JPP-5.3-013025	68				0
JPP-5.3-013025MS	64				0
JPP-5.3-013025MSD	62				0
JPP-5.2-013025	53				0
JPP-5.4-013025	121				0
JPP-51.4-013025	46				0

	QC LIMITS
TETRACOSANE-d50	For Water : 29-130 For Soil : 37-130

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

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SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** RU2 Engineering, LLC

Lab Code: CHEM **Cas No:** Q1241 **SAS No :** Q1241 **SDG No:** Q1241

Client SampleID : JPP-5.3-013025MS **Datafile:** FE052181.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7453	168000	150000	-242%	*	68-131

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SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** RU2 Engineering, LLC

Lab Code: CHEM **Cas No:** Q1241 **SAS No :** Q1241 **SDG No:** Q1241

Client SampleID : JPP-5.3-013025MSD **Datafile:** FE052182.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7460	168000	152000	-214%	*	68-131

MS/MSD % Recovery RPD : 11.8

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SOIL DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RI

Lab Name: Chemtech **Client:** RU2 Engineering, LLC

Lab Code: CHEM **Cas No:** Q1241 **SAS No :** Q1241 **SDG No:** Q1241

Matrix Spike - EPA Sample No : PB166415BS **Datafile:** FE052172.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
DRO	6660	0	6353	95	68-131

Alliance TECHNICAL GROUP
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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166415BL

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1241 SAS No.: Q1241 SDG NO.: Q1241

Lab File ID: FE052171.D Lab Sample ID: PB166415BL

Instrument ID: FE Date Extracted: 01/31/2025

Matrix: (soil/water) Soil Date Analyzed: 01/31/25

Level: (low/med) low Time Analyzed: 12:08

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166415BS	PB166415BS	FE052172.D	01/31/25
JPP-5.3-013025MS	Q1241-05MS	FE052181.D	01/31/25
JPP-5.3-013025MSD	Q1241-05MSD	FE052182.D	01/31/25
JPP-3.5-013025	Q1241-01	FE052183.D	01/31/25
JPP-5.3-013025	Q1241-05	FE052184.D	01/31/25
JPP-5.2-013025	Q1241-09	FE052185.D	01/31/25
JPP-5.4-013025	Q1241-13	FE052186.D	01/31/25
JPP-51.4-013025	Q1241-17	FE052187.D	01/31/25

COMMENTS:

Alliance
TECHNICAL GROUP

SAMPLE DATA

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-3.5-013025	SDG No.:	Q1241
Lab Sample ID:	Q1241-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	84.6 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052183.D	10	01/31/25 08:50	01/31/25 18:11	PB166415

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	256000		2180	19700	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	2.63	*	37 - 130	132%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance 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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052183.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 18:11
Operator : YP\AJ
Sample : Q1241-01 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-3.5-013025

Integration File: autoint1.e
Quant Time: Feb 03 00:12:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	15.234	262321	2.634 ug/ml
	Target Compounds			

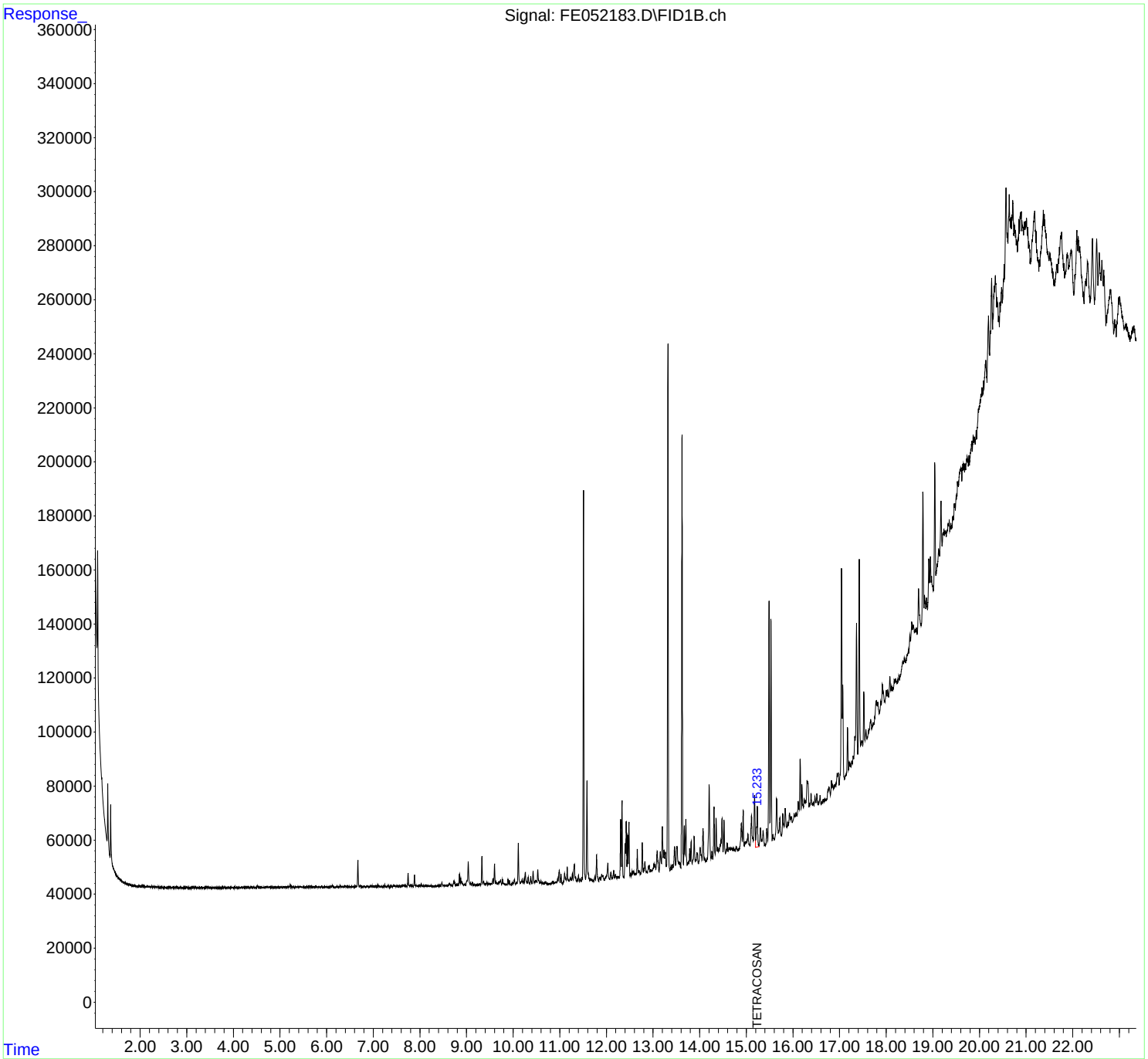
(f)=RT Delta > 1/2 Window (m)=manual int.

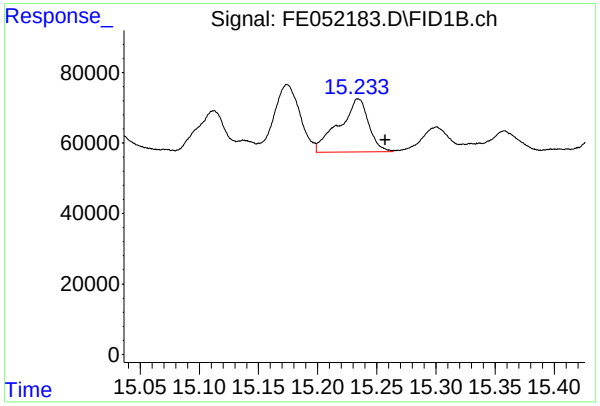
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052183.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 18:11
Operator : YP\AJ
Sample : Q1241-01 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-3.5-013025

Integration File: autoint1.e
Quant Time: Feb 03 00:12:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.:	15.234 min
Delta R.T.:	-0.023 mi
Response:	262321
Conc:	2.63 ug/m

Instrument :
FID_E
ClientSampleId :
JPP-3.5-013025

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052183.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 18:11
Sample : Q1241-01 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.870	4.852	4.884	BH	145	552	0.02%	0.001%
2	4.886	4.884	4.900	HH	195	563	0.02%	0.001%
3	4.926	4.900	4.954	PH	138	1190	0.04%	0.002%
4	4.974	4.954	5.000	PH	248	3111	0.12%	0.004%
5	5.005	5.000	5.012	HH	90	429	0.02%	0.001%
6	5.026	5.012	5.049	PH	185	2112	0.08%	0.003%
7	5.054	5.049	5.075	HH	132	1261	0.05%	0.002%
8	5.088	5.075	5.118	PH	204	2477	0.09%	0.004%
9	5.133	5.118	5.147	HH	264	2704	0.10%	0.004%
10	5.150	5.147	5.167	HH	228	1357	0.05%	0.002%
11	5.173	5.167	5.180	PH	132	659	0.02%	0.001%
12	5.219	5.180	5.244	HH	806	13029	0.49%	0.019%
13	5.248	5.244	5.270	HH	335	3190	0.12%	0.005%
14	5.289	5.270	5.323	PH	208	4026	0.15%	0.006%
15	5.334	5.323	5.338	PH	333	1502	0.06%	0.002%
16	5.342	5.338	5.371	HH	303	3205	0.12%	0.005%
17	5.382	5.371	5.416	HH	256	3984	0.15%	0.006%
18	5.424	5.416	5.443	HH	282	2762	0.10%	0.004%
19	5.446	5.443	5.454	HH	140	758	0.03%	0.001%
20	5.460	5.454	5.467	HH	210	978	0.04%	0.001%
21	5.471	5.467	5.477	HH	154	910	0.03%	0.001%
22	5.499	5.477	5.517	HH	427	4789	0.18%	0.007%
23	5.522	5.517	5.527	HH	133	353	0.01%	0.001%
24	5.534	5.527	5.541	PH	148	507	0.02%	0.001%
25	5.566	5.541	5.604	HH	266	5599	0.21%	0.008%
26	5.609	5.604	5.614	PH	129	447	0.02%	0.001%
27	5.617	5.614	5.632	HH	130	973	0.04%	0.001%
28	5.636	5.632	5.643	HH	146	789	0.03%	0.001%
29	5.668	5.643	5.700	PH	314	4876	0.18%	0.007%
30	5.705	5.700	5.714	HH	160	907	0.03%	0.001%
31	5.724	5.714	5.745	HH	199	2383	0.09%	0.003%
32	5.770	5.745	5.802	HH	330	6479	0.24%	0.009%
33	5.815	5.802	5.829	HH	178	1696	0.06%	0.002%
34	5.832	5.829	5.857	HH	119	1275	0.05%	0.002%
35	5.879	5.857	5.889	HH	273	2783	0.10%	0.004%
36	5.896	5.889	5.917	HH	290	2600	0.10%	0.004%

rteres

37	5.927	5.917	5.932	HH	162	806	0.03%	0.001%
38	5.949	5.932	5.965	HH	222	2866	0.11%	0.004%
39	5.983	5.965	5.989	HH	223	2412	0.09%	0.003%
40	6.004	5.989	6.028	HH	274	3746	0.14%	0.005%
41	6.033	6.028	6.067	HH	208	2921	0.11%	0.004%
42	6.083	6.067	6.104	HH	452	6344	0.24%	0.009%
43	6.124	6.104	6.147	HH	679	9895	0.37%	0.014%
44	6.166	6.147	6.172	HH	240	2368	0.09%	0.003%
45	6.176	6.172	6.200	HH	176	2156	0.08%	0.003%
46	6.204	6.200	6.217	HH	224	1373	0.05%	0.002%
47	6.228	6.217	6.234	HH	219	1673	0.06%	0.002%
48	6.289	6.234	6.307	HH	627	10841	0.41%	0.016%
49	6.310	6.307	6.315	HH	247	938	0.04%	0.001%
50	6.320	6.315	6.344	HH	320	3982	0.15%	0.006%
51	6.348	6.344	6.360	HH	277	2042	0.08%	0.003%
52	6.377	6.360	6.391	HH	439	6677	0.25%	0.010%
53	6.402	6.391	6.428	HH	513	8563	0.32%	0.012%
54	6.448	6.428	6.465	HH	465	5981	0.22%	0.009%
55	6.504	6.465	6.520	HH	293	7116	0.27%	0.010%
56	6.535	6.520	6.549	HH	369	4693	0.18%	0.007%
57	6.564	6.549	6.591	HH	360	5968	0.22%	0.009%
58	6.608	6.591	6.630	HH	542	8477	0.32%	0.012%
59	6.641	6.630	6.646	HH	389	3282	0.12%	0.005%
60	6.671	6.646	6.706	HH	10074	102941	3.85%	0.148%
61	6.717	6.706	6.741	HH	550	8358	0.31%	0.012%
62	6.745	6.741	6.757	HH	412	2978	0.11%	0.004%
63	6.761	6.757	6.767	HH	303	1727	0.06%	0.002%
64	6.777	6.767	6.787	HH	438	3840	0.14%	0.006%
65	6.796	6.787	6.832	HH	478	9096	0.34%	0.013%
66	6.849	6.832	6.856	HH	481	4650	0.17%	0.007%
67	6.860	6.856	6.864	HH	432	1703	0.06%	0.002%
68	6.868	6.864	6.884	HH	442	4069	0.15%	0.006%
69	6.889	6.884	6.917	HH	313	6910	0.26%	0.010%
70	6.941	6.917	6.955	HH	455	9342	0.35%	0.013%
71	6.980	6.955	7.005	HH	520	11078	0.41%	0.016%
72	7.035	7.005	7.068	HH	512	14110	0.53%	0.020%
73	7.094	7.068	7.151	HH	704	21889	0.82%	0.031%
74	7.170	7.151	7.197	HH	504	10202	0.38%	0.015%
75	7.246	7.197	7.270	HH	667	17808	0.67%	0.026%
76	7.310	7.270	7.349	HH	589	17777	0.66%	0.026%
77	7.359	7.349	7.366	HH	379	3088	0.12%	0.004%
78	7.385	7.366	7.411	HH	427	9947	0.37%	0.014%
79	7.432	7.411	7.477	HH	685	17047	0.64%	0.025%
80	7.495	7.477	7.505	HH	425	6923	0.26%	0.010%
81	7.521	7.505	7.545	HH	548	10665	0.40%	0.015%
82	7.557	7.545	7.575	HH	569	8807	0.33%	0.013%
83	7.591	7.575	7.607	HH	612	10061	0.38%	0.014%
84	7.621	7.607	7.639	HH	631	11235	0.42%	0.016%
85	7.667	7.639	7.723	HH	674	28352	1.06%	0.041%
86	7.747	7.723	7.779	HH	5292	63906	2.39%	0.092%
87	7.805	7.779	7.830	HH	945	20472	0.77%	0.029%
88	7.840	7.830	7.859	HH	655	9905	0.37%	0.014%
89	7.885	7.859	7.950	HH	4685	69444	2.60%	0.100%

90	8.027	7.950	8.090	HH	1135	54072	2.02%	0.078%
91	8.099	8.090	8.117	HH	593	9165	0.34%	0.013%
92	8.125	8.117	8.173	HH	616	17448	0.65%	0.025%
93	8.193	8.173	8.207	HH	611	11043	0.41%	0.016%
94	8.213	8.207	8.245	HH	655	13023	0.49%	0.019%
95	8.259	8.245	8.304	HH	564	15909	0.59%	0.023%
96	8.377	8.304	8.416	HH	750	38431	1.44%	0.055%
97	8.435	8.416	8.449	HH	730	12231	0.46%	0.018%
98	8.472	8.449	8.497	HH	1806	31171	1.17%	0.045%
99	8.503	8.497	8.537	HH	790	16225	0.61%	0.023%
100	8.553	8.537	8.565	HH	710	11039	0.41%	0.016%
101	8.599	8.565	8.607	HH	769	17220	0.64%	0.025%
102	8.632	8.607	8.694	HH	1650	50008	1.87%	0.072%
103	8.728	8.694	8.785	HH	2368	72955	2.73%	0.105%
104	8.803	8.785	8.827	HH	1055	23852	0.89%	0.034%
105	8.849	8.827	8.864	HH	5040	59322	2.22%	0.085%
106	8.877	8.864	8.890	HH	3418	39460	1.48%	0.057%
107	8.899	8.890	8.951	HH	2191	48983	1.83%	0.070%
108	8.968	8.951	8.982	HH	1157	18565	0.69%	0.027%
109	9.038	8.982	9.074	HH	9483	181104	6.77%	0.261%
110	9.084	9.074	9.109	HH	1577	26755	1.00%	0.038%
111	9.124	9.109	9.150	HH	1860	31858	1.19%	0.046%
112	9.167	9.150	9.187	HH	1103	21925	0.82%	0.032%
113	9.193	9.187	9.247	HH	930	30915	1.16%	0.044%
114	9.280	9.247	9.299	HH	1410	33818	1.26%	0.049%
115	9.331	9.299	9.353	HH	11600	137445	5.14%	0.198%
116	9.366	9.353	9.410	HH	2231	51485	1.93%	0.074%
117	9.435	9.410	9.460	HH	1955	42676	1.60%	0.061%
118	9.477	9.460	9.504	HH	1592	34307	1.28%	0.049%
119	9.568	9.504	9.583	HH	3275	84931	3.18%	0.122%
120	9.602	9.583	9.625	HH	8678	105264	3.94%	0.151%
121	9.634	9.625	9.667	HH	1907	38083	1.42%	0.055%
122	9.688	9.667	9.699	HH	1780	29785	1.11%	0.043%
123	9.732	9.699	9.754	HH	2756	66374	2.48%	0.096%
124	9.775	9.754	9.820	HH	3016	66328	2.48%	0.095%
125	9.832	9.820	9.855	HH	1248	22057	0.82%	0.032%
126	9.890	9.855	9.907	HH	3092	55476	2.07%	0.080%
127	9.922	9.907	9.942	HH	2517	36315	1.36%	0.052%
128	9.978	9.942	9.993	HH	1760	39941	1.49%	0.057%
129	10.026	9.993	10.049	HH	2825	62648	2.34%	0.090%
130	10.071	10.049	10.084	HH	1787	32811	1.23%	0.047%
131	10.112	10.084	10.159	HH	16455	225621	8.44%	0.325%
132	10.192	10.159	10.214	HH	2998	71716	2.68%	0.103%
133	10.231	10.214	10.243	HH	2959	38754	1.45%	0.056%
134	10.261	10.243	10.302	HH	5529	109738	4.10%	0.158%
135	10.322	10.302	10.354	HH	3731	70913	2.65%	0.102%
136	10.378	10.354	10.401	HH	4129	68206	2.55%	0.098%
137	10.429	10.401	10.454	HH	6040	99420	3.72%	0.143%
138	10.487	10.454	10.505	HH	2717	69527	2.60%	0.100%
139	10.529	10.505	10.574	HH	6516	132206	4.94%	0.190%
140	10.593	10.574	10.610	HH	2391	41179	1.54%	0.059%
141	10.623	10.610	10.640	HH	1841	29772	1.11%	0.043%

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142	10.695	10.640	10.759	HH	1836	104396	3.90%	0.150%
143	10.793	10.759	10.825	HH	1489	54655	2.04%	0.079%
144	10.846	10.825	10.885	HH	2235	62890	2.35%	0.090%
145	10.904	10.885	10.912	HH	1990	28734	1.07%	0.041%
146	10.923	10.912	10.937	HH	2049	27768	1.04%	0.040%
147	10.954	10.937	10.966	HH	3231	44524	1.66%	0.064%
148	10.987	10.966	11.009	HH	6257	102871	3.85%	0.148%
149	11.028	11.009	11.057	HH	4929	82315	3.08%	0.118%
150	11.104	11.057	11.142	HH	5196	149737	5.60%	0.215%
151	11.159	11.142	11.204	HH	7596	144778	5.41%	0.208%
152	11.222	11.204	11.251	HH	3328	81528	3.05%	0.117%
153	11.271	11.251	11.287	HH	5194	82136	3.07%	0.118%
154	11.312	11.287	11.356	HH	8593	208125	7.78%	0.299%
155	11.402	11.356	11.419	HH	4688	116807	4.37%	0.168%
156	11.437	11.419	11.462	HH	3088	69311	2.59%	0.100%
157	11.510	11.462	11.553	HH	146853	1619512	60.56%	2.330%
158	11.585	11.553	11.644	HH	39378	565138	21.13%	0.813%
159	11.665	11.644	11.702	HH	3033	98567	3.69%	0.142%
160	11.714	11.702	11.732	HH	2715	45017	1.68%	0.065%
161	11.753	11.732	11.769	HH	4169	71066	2.66%	0.102%
162	11.788	11.769	11.832	HH	12032	211623	7.91%	0.305%
163	11.854	11.832	11.879	HH	3589	89301	3.34%	0.129%
164	11.900	11.879	11.912	HH	4802	78775	2.95%	0.113%
165	11.921	11.912	11.952	HH	4367	88404	3.31%	0.127%
166	12.031	11.952	12.070	HH	8939	318432	11.91%	0.458%
167	12.096	12.070	12.121	HH	5604	124787	4.67%	0.180%
168	12.156	12.121	12.175	HH	6322	145306	5.43%	0.209%
169	12.195	12.175	12.219	HH	4909	106150	3.97%	0.153%
170	12.233	12.219	12.245	HH	3848	59309	2.22%	0.085%
171	12.257	12.245	12.270	HH	4104	57171	2.14%	0.082%
172	12.305	12.270	12.320	HH	25204	337984	12.64%	0.486%
173	12.336	12.320	12.369	HH	31801	402718	15.06%	0.579%
174	12.403	12.369	12.411	HH	16271	213034	7.97%	0.307%
175	12.424	12.411	12.439	HH	24384	286308	10.71%	0.412%
176	12.454	12.439	12.468	HH	19291	233455	8.73%	0.336%
177	12.485	12.468	12.508	HH	24291	327543	12.25%	0.471%
178	12.520	12.508	12.534	HH	5300	73501	2.75%	0.106%
179	12.556	12.534	12.569	HH	6074	110607	4.14%	0.159%
180	12.582	12.569	12.602	HH	6032	107917	4.04%	0.155%
181	12.620	12.602	12.640	HH	5362	115230	4.31%	0.166%
182	12.663	12.640	12.686	HH	14066	231234	8.65%	0.333%
183	12.700	12.686	12.729	HH	6254	147315	5.51%	0.212%
184	12.768	12.729	12.790	HH	16604	318239	11.90%	0.458%
185	12.825	12.790	12.879	HH	9392	356937	13.35%	0.514%
186	12.916	12.879	12.934	HH	8095	227125	8.49%	0.327%
187	12.950	12.934	12.964	HH	6467	112802	4.22%	0.162%
188	13.020	12.964	13.032	HH	8845	288770	10.80%	0.416%
189	13.042	13.032	13.057	HH	8490	116750	4.37%	0.168%
190	13.087	13.057	13.129	HH	13467	410303	15.34%	0.590%
191	13.158	13.129	13.182	HH	13235	307512	11.50%	0.442%
192	13.201	13.182	13.218	HH	22560	340604	12.74%	0.490%
193	13.234	13.218	13.251	HH	13768	240049	8.98%	0.345%
194	13.263	13.251	13.282	HH	12953	202688	7.58%	0.292%

195	13.321	13.282	13.366	HH	200983	2416706	90.37%	3.478%
196	13.382	13.366	13.397	HH	7993	134498	5.03%	0.194%
197	13.414	13.397	13.429	HH	8459	146791	5.49%	0.211%
198	13.461	13.429	13.484	HH	15043	353506	13.22%	0.509%
199	13.511	13.484	13.554	HH	15143	475351	17.77%	0.684%
200	13.567	13.554	13.589	HH	9303	181081	6.77%	0.261%
201	13.621	13.589	13.654	HH	167386	2031016	75.95%	2.923%
202	13.672	13.654	13.686	HH	22828	305355	11.42%	0.439%
203	13.700	13.686	13.730	HH	25174	411200	15.38%	0.592%
204	13.753	13.730	13.767	HH	9320	197653	7.39%	0.284%
205	13.786	13.767	13.800	HH	14317	232157	8.68%	0.334%
206	13.818	13.800	13.840	HH	16983	301802	11.29%	0.434%
207	13.880	13.840	13.905	HH	18905	472705	17.68%	0.680%
208	13.913	13.905	13.922	HH	10085	100710	3.77%	0.145%
209	13.946	13.922	13.972	HH	12705	335318	12.54%	0.483%
210	14.010	13.972	14.047	HH	14761	521093	19.49%	0.750%
211	14.072	14.047	14.097	HH	21570	459445	17.18%	0.661%
212	14.110	14.097	14.145	HH	10835	289025	10.81%	0.416%
213	14.201	14.145	14.242	HH	38010	1039667	38.88%	1.496%
214	14.261	14.242	14.282	HH	13222	283721	10.61%	0.408%
215	14.307	14.282	14.330	HH	29817	549615	20.55%	0.791%
216	14.351	14.330	14.377	HH	25624	495476	18.53%	0.713%
217	14.388	14.377	14.400	HH	14739	196319	7.34%	0.282%
218	14.456	14.400	14.463	HH	17448	566800	21.19%	0.816%
219	14.480	14.463	14.500	HH	25563	433671	16.22%	0.624%
220	14.519	14.500	14.553	HH	24965	537437	20.10%	0.773%
221	14.590	14.553	14.610	HH	16336	492674	18.42%	0.709%
222	14.632	14.610	14.660	HH	14750	425901	15.93%	0.613%
223	14.673	14.660	14.682	HH	14502	185357	6.93%	0.267%
224	14.697	14.682	14.714	HH	14515	268813	10.05%	0.387%
225	14.727	14.714	14.742	HH	14808	236317	8.84%	0.340%
226	14.752	14.742	14.767	HH	13975	210457	7.87%	0.303%
227	14.785	14.767	14.824	HH	15095	485908	18.17%	0.699%
228	14.839	14.824	14.850	HH	14246	224729	8.40%	0.323%
229	14.893	14.850	14.915	HH	23704	717216	26.82%	1.032%
230	14.934	14.915	14.957	HH	28471	537775	20.11%	0.774%
231	14.993	14.957	15.000	HH	16942	426691	15.96%	0.614%
232	15.033	15.000	15.080	HH	19732	820487	30.68%	1.181%
233	15.112	15.080	15.149	HH	26696	839713	31.40%	1.208%
234	15.174	15.149	15.199	HH	34180	739365	27.65%	1.064%
235	15.234	15.199	15.265	HH	30089	861384	32.21%	1.239%
236	15.300	15.265	15.325	HH	22143	660493	24.70%	0.950%
237	15.358	15.325	15.389	HH	20976	687808	25.72%	0.990%
238	15.439	15.389	15.457	HH	21708	718106	26.85%	1.033%
239	15.485	15.457	15.506	HH	106286	1553102	58.08%	2.235%
240	15.527	15.506	15.554	HH	99370	1407673	52.64%	2.026%
241	15.570	15.554	15.602	HH	19530	532385	19.91%	0.766%
242	15.648	15.602	15.688	HH	32933	1201083	44.91%	1.728%
243	15.720	15.688	15.754	HH	25792	849104	31.75%	1.222%
244	15.781	15.754	15.812	HH	27334	813351	30.41%	1.170%
245	15.831	15.812	15.865	HH	29093	802244	30.00%	1.154%
246	15.884	15.865	15.902	HH	24278	522039	19.52%	0.751%

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247	15.925	15.902	15.945	HH	27413	656761	24.56%	0.945%
248	15.966	15.945	15.987	HH	26201	640268	23.94%	0.921%
249	16.026	15.987	16.041	HH	27304	837254	31.31%	1.205%
250	16.067	16.041	16.084	HH	27612	686464	25.67%	0.988%
251	16.112	16.084	16.130	HH	31785	806500	30.16%	1.161%
252	16.153	16.130	16.174	HH	47391	974946	36.46%	1.403%
253	16.191	16.174	16.224	HH	37947	995730	37.23%	1.433%
254	16.241	16.224	16.279	HH	32644	1027922	38.44%	1.479%
255	16.303	16.279	16.345	HH	39248	1433318	53.60%	2.062%
256	16.389	16.345	16.410	HH	34629	1236194	46.22%	1.779%
257	16.429	16.410	16.449	HH	31186	709555	26.53%	1.021%
258	16.470	16.449	16.490	HH	33616	803736	30.05%	1.157%
259	16.511	16.490	16.549	HH	34579	1136516	42.50%	1.635%
260	16.580	16.549	16.600	HH	34061	988666	36.97%	1.423%
261	16.654	16.600	16.672	HH	32404	1356981	50.74%	1.953%
262	16.703	16.672	16.714	HH	32698	809843	30.28%	1.165%
263	16.749	16.714	16.756	HH	36097	878129	32.84%	1.264%
264	16.773	16.756	16.801	HH	37031	962693	36.00%	1.385%
265	16.824	16.801	16.840	HH	39468	878861	32.86%	1.265%
266	16.895	16.867	16.906	HH	37871	879562	32.89%	1.266%
267	16.947	16.906	16.957	HH	42146	1214857	45.43%	1.748%
268	16.969	16.957	16.988	HH	42286	743265	27.79%	1.070%
269	17.040	16.988	17.057	HH	117889	2674304	100.00%	3.848%
270	17.204	17.190	17.217	HH	46196	744696	27.85%	1.072%
271	17.227	17.217	17.244	HH	45799	721797	26.99%	1.039%

Sum of corrected areas: 69495001

FE012325.M Mon Feb 03 02:23:21 2025

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-5.3-013025	SDG No.:	Q1241
Lab Sample ID:	Q1241-05	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.3 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052184.D	10	01/31/25 08:50	01/31/25 18:41	PB166415

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	167000		2070	18600	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.37		37 - 130	68%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance 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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052184.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 18:41
Operator : YP\AJ
Sample : Q1241-05 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 03 00:13:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025

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Supervised By :Ankita Jodhani 02/03/2025

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.233	136203	1.368 ug/mlm
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052184.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 18:41
Operator : YP\AJ
Sample : Q1241-05 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 03 00:13:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025

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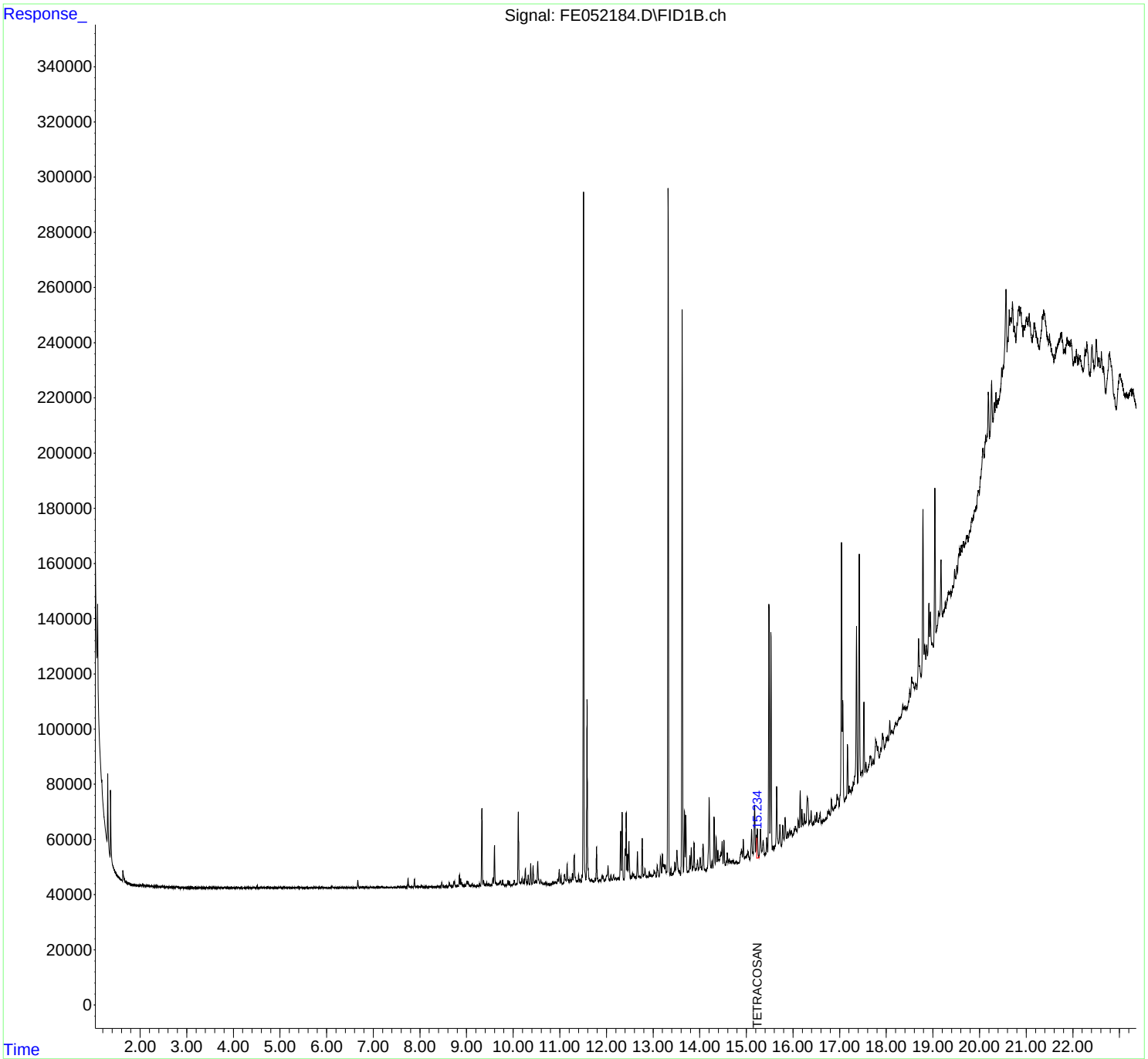

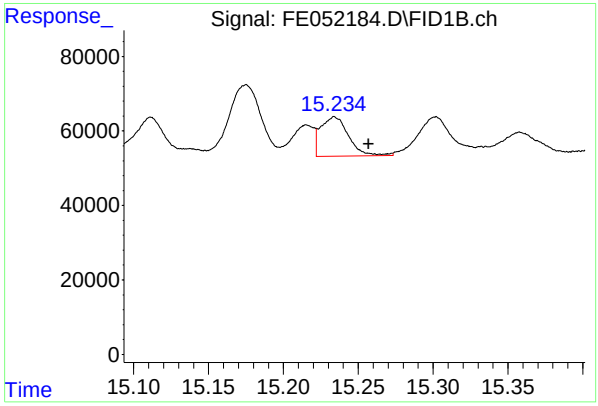

#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.233 min
Delta R.T.: -0.023 mi
Response: 136203
Conc: 1.37 ug/m

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025

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Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025

rteres

Area Percent Report

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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052184.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 18:41
Sample : Q1241-05 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.869	4.852	4.887	BH	183	609	0.02%	0.001%
2	4.890	4.887	4.902	PH	121	206	0.01%	0.000%
3	4.912	4.902	4.932	PH	147	781	0.03%	0.002%
4	4.952	4.932	4.957	PH	127	769	0.03%	0.002%
5	4.977	4.957	4.995	PH	266	2506	0.09%	0.005%
6	4.997	4.995	5.001	HH	207	392	0.01%	0.001%
7	5.018	5.001	5.049	HH	260	3502	0.12%	0.007%
8	5.057	5.049	5.074	PH	140	1498	0.05%	0.003%
9	5.078	5.074	5.106	HH	189	2429	0.09%	0.005%
10	5.116	5.106	5.121	HH	189	1410	0.05%	0.003%
11	5.130	5.121	5.174	HH	303	4264	0.15%	0.009%
12	5.183	5.174	5.192	HH	133	868	0.03%	0.002%
13	5.197	5.192	5.203	PH	54	346	0.01%	0.001%
14	5.208	5.203	5.216	HH	180	861	0.03%	0.002%
15	5.221	5.216	5.256	HH	177	2000	0.07%	0.004%
16	5.263	5.256	5.297	PH	77	1985	0.07%	0.004%
17	5.324	5.297	5.328	HH	147	1525	0.05%	0.003%
18	5.343	5.328	5.351	HH	205	1489	0.05%	0.003%
19	5.354	5.351	5.369	HH	110	940	0.03%	0.002%
20	5.372	5.369	5.383	HH	121	734	0.03%	0.002%
21	5.388	5.383	5.419	PH	176	1375	0.05%	0.003%
22	5.423	5.419	5.448	HH	466	1598	0.06%	0.003%
23	5.468	5.448	5.491	PH	181	2084	0.07%	0.004%
24	5.511	5.491	5.516	HH	132	1246	0.04%	0.003%
25	5.520	5.516	5.529	PH	88	429	0.02%	0.001%
26	5.532	5.529	5.540	PH	111	354	0.01%	0.001%
27	5.546	5.540	5.549	PH	115	353	0.01%	0.001%
28	5.553	5.549	5.577	HH	111	1179	0.04%	0.002%
29	5.582	5.577	5.591	PH	112	478	0.02%	0.001%
30	5.593	5.591	5.617	PH	118	870	0.03%	0.002%
31	5.621	5.617	5.627	HH	115	390	0.01%	0.001%
32	5.636	5.627	5.664	PH	195	1208	0.04%	0.003%
33	5.672	5.664	5.681	PH	81	339	0.01%	0.001%
34	5.683	5.681	5.692	PH	91	208	0.01%	0.000%
35	5.701	5.692	5.709	PH	137	523	0.02%	0.001%
36	5.726	5.709	5.731	PH	175	722	0.03%	0.002%

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FID_E
ClientSampleId :
JPP-5.3-013025

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					rteres			
37	5.735	5.731	5.741	PH	149	297	0.01%	0.001%
38	5.750	5.741	5.756	PH	94	604		
39	5.771	5.756	5.780	HH	232	1753		
40	5.785	5.780	5.796	HH	104	674		
41	5.802	5.796	5.809	PH	123	513		
42	5.814	5.809	5.826	PH	137	650		
43	5.852	5.826	5.864	PH	171	1346	0.05%	0.003%
44	5.892	5.864	5.929	PH	386	4731	0.17%	0.010%
45	5.943	5.929	5.952	PH	185	1020	0.04%	0.002%
46	5.958	5.952	5.963	HH	153	594	0.02%	0.001%
47	5.969	5.963	5.992	HH	143	1305	0.05%	0.003%
48	5.996	5.992	6.001	PH	110	174	0.01%	0.000%
49	6.007	6.001	6.014	PH	74	289	0.01%	0.001%
50	6.020	6.014	6.028	PH	57	324	0.01%	0.001%
51	6.034	6.028	6.055	PH	117	1015	0.04%	0.002%
52	6.059	6.055	6.066	HH	134	452	0.02%	0.001%
53	6.071	6.066	6.087	PH	115	1346	0.05%	0.003%
54	6.112	6.087	6.133	HH	742	8716	0.31%	0.018%
55	6.136	6.133	6.160	HH	194	1851	0.07%	0.004%
56	6.164	6.160	6.192	HH	85	1881	0.07%	0.004%
57	6.203	6.192	6.241	HH	208	3534	0.12%	0.007%
58	6.243	6.241	6.248	HH	116	358	0.01%	0.001%
59	6.257	6.248	6.262	HH	132	665	0.02%	0.001%
60	6.268	6.262	6.285	HH	203	1691	0.06%	0.004%
61	6.292	6.285	6.337	HH	155	3041	0.11%	0.006%
62	6.360	6.337	6.367	HH	183	1893	0.07%	0.004%
63	6.387	6.367	6.392	HH	208	2421	0.09%	0.005%
64	6.395	6.392	6.414	HH	244	2109	0.07%	0.004%
65	6.415	6.414	6.427	HH	170	963	0.03%	0.002%
66	6.438	6.427	6.451	HH	194	2006	0.07%	0.004%
67	6.455	6.451	6.468	HH	142	1067	0.04%	0.002%
68	6.473	6.468	6.516	HH	220	3151	0.11%	0.007%
69	6.528	6.516	6.550	HH	180	2779	0.10%	0.006%
70	6.566	6.550	6.597	HH	180	3728	0.13%	0.008%
71	6.608	6.597	6.637	HH	231	4063	0.14%	0.009%
72	6.669	6.637	6.704	HH	2820	32514	1.14%	0.068%
73	6.718	6.704	6.736	HH	294	4210	0.15%	0.009%
74	6.750	6.736	6.767	HH	229	3035	0.11%	0.006%
75	6.795	6.767	6.822	HH	297	6846	0.24%	0.014%
76	6.844	6.822	6.857	HH	240	4065	0.14%	0.009%
77	6.865	6.857	6.875	HH	273	2101	0.07%	0.004%
78	6.888	6.875	6.924	HH	288	5228	0.18%	0.011%
79	6.937	6.924	6.970	HH	329	6796	0.24%	0.014%
80	6.985	6.970	7.009	HH	338	5543	0.20%	0.012%
81	7.041	7.009	7.070	HH	329	8443	0.30%	0.018%
82	7.093	7.070	7.137	HH	369	10080	0.35%	0.021%
83	7.165	7.137	7.234	HH	454	14495	0.51%	0.030%
84	7.241	7.234	7.271	HH	275	4845	0.17%	0.010%
85	7.278	7.271	7.290	HH	203	1910	0.07%	0.004%
86	7.305	7.290	7.360	HH	291	8141	0.29%	0.017%
87	7.386	7.360	7.410	HH	322	7234	0.25%	0.015%
88	7.433	7.410	7.479	HH	271	9018	0.32%	0.019%
89	7.488	7.479	7.509	HH	231	3914	0.14%	0.008%

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JPP-5.3-013025

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90	7.517	7.509	7.564	HH	383	9887	0.35%	0.021%
91	7.571	7.564	7.605	HH	314	7304		
92	7.639	7.605	7.647	HH	388	8039		
93	7.678	7.647	7.707	HH	386	11319		
94	7.746	7.707	7.790	HH	3383	46792		
95	7.799	7.790	7.854	HH	495	14210		
96	7.883	7.854	7.952	HH	3228	48871	1.72%	0.102%
97	7.961	7.952	7.984	HH	405	7339	0.26%	0.015%
98	8.027	7.984	8.082	HH	660	26725	0.94%	0.056%
99	8.105	8.082	8.125	HH	435	9631	0.34%	0.020%
100	8.136	8.125	8.160	HH	403	7276	0.26%	0.015%
101	8.198	8.160	8.306	HH	421	32250	1.14%	0.068%
102	8.340	8.306	8.349	HH	439	9238	0.33%	0.019%
103	8.369	8.349	8.417	HH	468	16357	0.58%	0.034%
104	8.470	8.417	8.537	HH	2077	50420	1.78%	0.106%
105	8.547	8.537	8.558	HH	585	6407	0.23%	0.013%
106	8.568	8.558	8.577	HH	577	5883	0.21%	0.012%
107	8.598	8.577	8.614	HH	638	11731	0.41%	0.025%
108	8.630	8.614	8.694	HH	1870	42844	1.51%	0.090%
109	8.728	8.694	8.777	HH	2293	62481	2.20%	0.131%
110	8.796	8.777	8.817	HH	847	18597	0.65%	0.039%
111	8.848	8.817	8.863	HH	4716	59926	2.11%	0.126%
112	8.876	8.863	8.946	HH	3421	76825	2.71%	0.161%
113	8.965	8.946	8.982	HH	977	17559	0.62%	0.037%
114	9.011	8.982	9.104	HH	2507	100229	3.53%	0.210%
115	9.123	9.104	9.156	HH	1593	31444	1.11%	0.066%
116	9.167	9.156	9.197	HH	799	17094	0.60%	0.036%
117	9.204	9.197	9.220	HH	745	9266	0.33%	0.019%
118	9.227	9.220	9.255	HH	692	14004	0.49%	0.029%
119	9.279	9.255	9.304	HH	1574	30387	1.07%	0.064%
120	9.330	9.304	9.352	HH	28872	299815	10.56%	0.628%
121	9.365	9.352	9.409	HH	2647	53226	1.87%	0.111%
122	9.434	9.409	9.456	HH	1835	37899	1.33%	0.079%
123	9.477	9.456	9.504	HH	1384	33537	1.18%	0.070%
124	9.517	9.504	9.540	HH	1126	23808	0.84%	0.050%
125	9.567	9.540	9.581	HH	3638	56464	1.99%	0.118%
126	9.600	9.581	9.624	HH	15333	170249	6.00%	0.357%
127	9.633	9.624	9.660	HH	1768	33559	1.18%	0.070%
128	9.686	9.660	9.697	HH	1721	32130	1.13%	0.067%
129	9.731	9.697	9.754	HH	2634	63468	2.23%	0.133%
130	9.774	9.754	9.852	HH	2885	78499	2.76%	0.164%
131	9.889	9.852	9.907	HH	2734	51678	1.82%	0.108%
132	9.921	9.907	9.955	HH	2479	42702	1.50%	0.089%
133	9.974	9.955	9.988	HH	1157	21415	0.75%	0.045%
134	10.025	9.988	10.045	HH	2871	59636	2.10%	0.125%
135	10.111	10.045	10.160	HH	27511	362750	12.77%	0.760%
136	10.190	10.160	10.213	HH	3413	74194	2.61%	0.155%
137	10.229	10.213	10.242	HH	3187	41319	1.45%	0.087%
138	10.262	10.242	10.300	HH	6841	119772	4.22%	0.251%
139	10.322	10.300	10.357	HH	4615	84055	2.96%	0.176%
140	10.377	10.357	10.402	HH	8858	111120	3.91%	0.233%
141	10.428	10.402	10.455	HH	8096	116009	4.09%	0.243%

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142	10.486	10.455	10.505	HH	2625	66202	2.33%	0.139%
143	10.528	10.505	10.575	HH	9624	170200	[illegible]	
144	10.592	10.575	10.610	HH	2903	45558	[illegible]	
145	10.619	10.610	10.639	HH	1912	28369	[illegible]	
146	10.663	10.639	10.672	HH	1541	28928	[illegible]	
147	10.696	10.672	10.717	HH	1828	44537	[illegible]	
148	10.728	10.717	10.752	HH	1562	29075	1.02%	0.061%
149	10.787	10.752	10.825	HH	1361	58215	2.05%	0.122%
150	10.846	10.825	10.887	HH	2292	65411	2.30%	0.137%
151	10.903	10.887	10.937	HH	2372	58193	2.05%	0.122%
152	10.954	10.937	10.966	HH	3248	45601	1.61%	0.096%
153	10.987	10.966	11.010	HH	6513	107226	3.78%	0.225%
154	11.027	11.010	11.057	HH	4536	74609	2.63%	0.156%
155	11.103	11.057	11.138	HH	4907	136970	4.82%	0.287%
156	11.158	11.138	11.205	HH	8577	162884	5.74%	0.341%
157	11.220	11.205	11.250	HH	3365	74747	2.63%	0.157%
158	11.270	11.250	11.284	HH	5343	78425	2.76%	0.164%
159	11.311	11.284	11.354	HH	11867	263576	9.28%	0.552%
160	11.372	11.354	11.382	HH	2615	42706	1.50%	0.089%
161	11.402	11.382	11.420	HH	4864	76759	2.70%	0.161%
162	11.432	11.420	11.457	HH	3182	59543	2.10%	0.125%
163	11.511	11.457	11.557	HH	250638	2675352	94.21%	5.604%
164	11.584	11.557	11.650	HH	68085	852248	30.01%	1.785%
165	11.670	11.650	11.702	HH	3178	86486	3.05%	0.181%
166	11.713	11.702	11.732	HH	2681	44191	1.56%	0.093%
167	11.752	11.732	11.767	HH	3634	60952	2.15%	0.128%
168	11.787	11.767	11.832	HH	14843	231470	8.15%	0.485%
169	11.859	11.832	11.878	HH	2996	74538	2.62%	0.156%
170	11.902	11.878	11.910	HH	4258	69629	2.45%	0.146%
171	11.916	11.910	11.952	HH	4104	88125	3.10%	0.185%
172	12.031	11.952	12.074	HH	7973	292397	10.30%	0.612%
173	12.095	12.074	12.124	HH	4700	106366	3.75%	0.223%
174	12.156	12.124	12.177	HH	4674	114472	4.03%	0.240%
175	12.194	12.177	12.217	HH	3789	80740	2.84%	0.169%
176	12.232	12.217	12.240	HH	3296	44941	1.58%	0.094%
177	12.255	12.240	12.274	HH	3873	67596	2.38%	0.142%
178	12.305	12.274	12.319	HH	20671	267722	9.43%	0.561%
179	12.336	12.319	12.379	HH	27453	360130	12.68%	0.754%
180	12.423	12.379	12.440	HH	27360	476989	16.80%	0.999%
181	12.453	12.440	12.467	HH	12225	148310	5.22%	0.311%
182	12.484	12.467	12.507	HH	16912	238555	8.40%	0.500%
183	12.519	12.507	12.534	HH	4436	61946	2.18%	0.130%
184	12.556	12.534	12.570	HH	5399	97829	3.44%	0.205%
185	12.582	12.570	12.600	HH	5105	81854	2.88%	0.171%
186	12.619	12.600	12.635	HH	4317	81545	2.87%	0.171%
187	12.662	12.635	12.687	HH	13238	215046	7.57%	0.450%
188	12.693	12.687	12.702	HH	4183	37562	1.32%	0.079%
189	12.712	12.702	12.739	HH	4191	86707	3.05%	0.182%
190	12.767	12.739	12.789	HH	17977	260725	9.18%	0.546%
191	12.824	12.789	12.851	HH	7068	192720	6.79%	0.404%
192	12.865	12.851	12.894	HH	4080	102513	3.61%	0.215%
193	12.917	12.894	12.935	HH	5915	118907	4.19%	0.249%
194	12.948	12.935	12.969	HH	4641	89098	3.14%	0.187%

Instrument :
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Supervised By :Ankita Jodhani 02/03/2025

rteres

195	13.019	12.969	13.034	HH	6385	192441	6.78%	0.403%
196	13.042	13.034	13.070	HH	5753	106638		
197	13.089	13.070	13.128	HH	8312	206248		
198	13.156	13.128	13.182	HH	11431	240566		
199	13.200	13.182	13.217	HH	12303	189776		
200	13.228	13.217	13.250	HH	8552	158955		
201	13.261	13.250	13.288	HH	8396	155040	5.46%	0.325%
202	13.322	13.288	13.365	HH	253894	2839796	100.00%	5.948%
203	13.381	13.365	13.399	HH	7060	114964	4.05%	0.241%
204	13.414	13.399	13.427	HH	5308	84227	2.97%	0.176%
205	13.465	13.427	13.479	HH	9221	209686	7.38%	0.439%
206	13.509	13.479	13.554	HH	13692	391087	13.77%	0.819%
207	13.568	13.554	13.588	HH	6207	116807	4.11%	0.245%
208	13.621	13.588	13.650	HH	209769	2352065	82.83%	4.927%
209	13.671	13.650	13.686	HH	27978	359099	12.65%	0.752%
210	13.700	13.686	13.734	HH	26292	405162	14.27%	0.849%
211	13.751	13.734	13.763	HH	6047	105149	3.70%	0.220%
212	13.785	13.763	13.799	HH	11806	187214	6.59%	0.392%
213	13.817	13.799	13.841	HH	14711	254231	8.95%	0.533%
214	13.879	13.841	13.904	HH	16321	362171	12.75%	0.759%
215	13.952	13.904	13.970	HH	9943	304300	10.72%	0.637%
216	14.009	13.970	14.047	HH	11013	371982	13.10%	0.779%
217	14.071	14.047	14.097	HH	15849	321495	11.32%	0.673%
218	14.107	14.097	14.128	HH	6881	123641	4.35%	0.259%
219	14.200	14.128	14.241	HH	32793	844967	29.75%	1.770%
220	14.261	14.241	14.280	HH	9753	196859	6.93%	0.412%
221	14.306	14.280	14.330	HH	25801	442998	15.60%	0.928%
222	14.350	14.330	14.370	HH	18429	316205	11.13%	0.662%
223	14.388	14.370	14.419	HH	13604	325800	11.47%	0.682%
224	14.454	14.419	14.464	HH	12789	305322	10.75%	0.640%
225	14.478	14.464	14.499	HH	16998	280094	9.86%	0.587%
226	14.518	14.499	14.552	HH	17375	370834	13.06%	0.777%
227	14.590	14.552	14.608	HH	12653	339291	11.95%	0.711%
228	14.630	14.608	14.654	HH	10243	263570	9.28%	0.552%
229	14.671	14.654	14.682	HH	9676	160563	5.65%	0.336%
230	14.697	14.682	14.711	HH	9977	168747	5.94%	0.353%
231	14.724	14.711	14.741	HH	9972	169989	5.99%	0.356%
232	14.752	14.741	14.764	HH	9202	120798	4.25%	0.253%
233	14.786	14.764	14.822	HH	9566	321746	11.33%	0.674%
234	14.838	14.822	14.846	HH	9169	133236	4.69%	0.279%
235	14.897	14.846	14.914	HH	13480	478263	16.84%	1.002%
236	14.933	14.914	14.957	HH	17626	346182	12.19%	0.725%
237	14.970	14.957	14.981	HH	11223	159234	5.61%	0.334%
238	15.032	14.981	15.077	HH	13339	670469	23.61%	1.404%
239	15.111	15.077	15.147	HH	21311	619495	21.81%	1.298%
240	15.175	15.147	15.198	HH	30081	620210	21.84%	1.299%
241	15.234	15.198	15.267	HH	21481	669959	23.59%	1.403%
242	15.301	15.267	15.329	HH	21404	574948	20.25%	1.204%
243	15.358	15.329	15.391	HH	17246	538689	18.97%	1.128%
244	15.436	15.391	15.455	HH	18191	537989	18.94%	1.127%
245	15.484	15.455	15.505	HH	102764	1481187	52.16%	3.102%
246	15.526	15.505	15.555	HH	92960	1333358	46.95%	2.793%

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

rteres

247	15.569	15.555	15.600	HH	15156	396054	13.95%	0.830%
248	15.649	15.600	15.692	HH	36735	1117315	39	
249	15.719	15.692	15.751	HH	22904	640849	22	
250	15.779	15.751	15.807	HH	22830	636514	22	
251	15.830	15.807	15.862	HH	25425	681275	23	
252	15.883	15.862	15.901	HH	20327	449816	15	
253	15.925	15.901	15.949	HH	20894	566454	19.95%	1.186%
254	15.967	15.949	15.987	HH	20733	459567	16.18%	0.963%
255	16.049	15.987	16.084	HH	22415	1193885	42.04%	2.501%
256	16.110	16.084	16.132	HH	24471	657108	23.14%	1.376%
257	16.153	16.132	16.173	HH	35251	685595	24.14%	1.436%
258	16.190	16.173	16.222	HH	28493	728425	25.65%	1.526%
259	16.240	16.222	16.272	HH	27097	741209	26.10%	1.553%
260	16.306	16.272	16.345	HH	32649	1229384	43.29%	2.575%
261	16.388	16.345	16.449	HH	28160	1503327	52.94%	3.149%
262	16.470	16.449	16.487	HH	25925	565304	19.91%	1.184%

Sum of corrected areas: 47742742

FE012325.M Mon Feb 03 02:26:35 2025

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-5.2-013025	SDG No.:	Q1241
Lab Sample ID:	Q1241-09	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	87.3 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052185.D	10	01/31/25 08:50	01/31/25 19:11	PB166415

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	128000		2120	19100	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.06		37 - 130	53%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance 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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052185.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 19:11
Operator : YP\AJ
Sample : Q1241-09 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 03 00:13:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_E
ClientSampleId :
JPP-5.2-013025

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.231	105253	1.057 ug/mlm
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052185.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 19:11
Operator : YP\AJ
Sample : Q1241-09 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 03 00:13:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_E
ClientSampleId :
JPP-5.2-013025

Manual Integrations APPROVED

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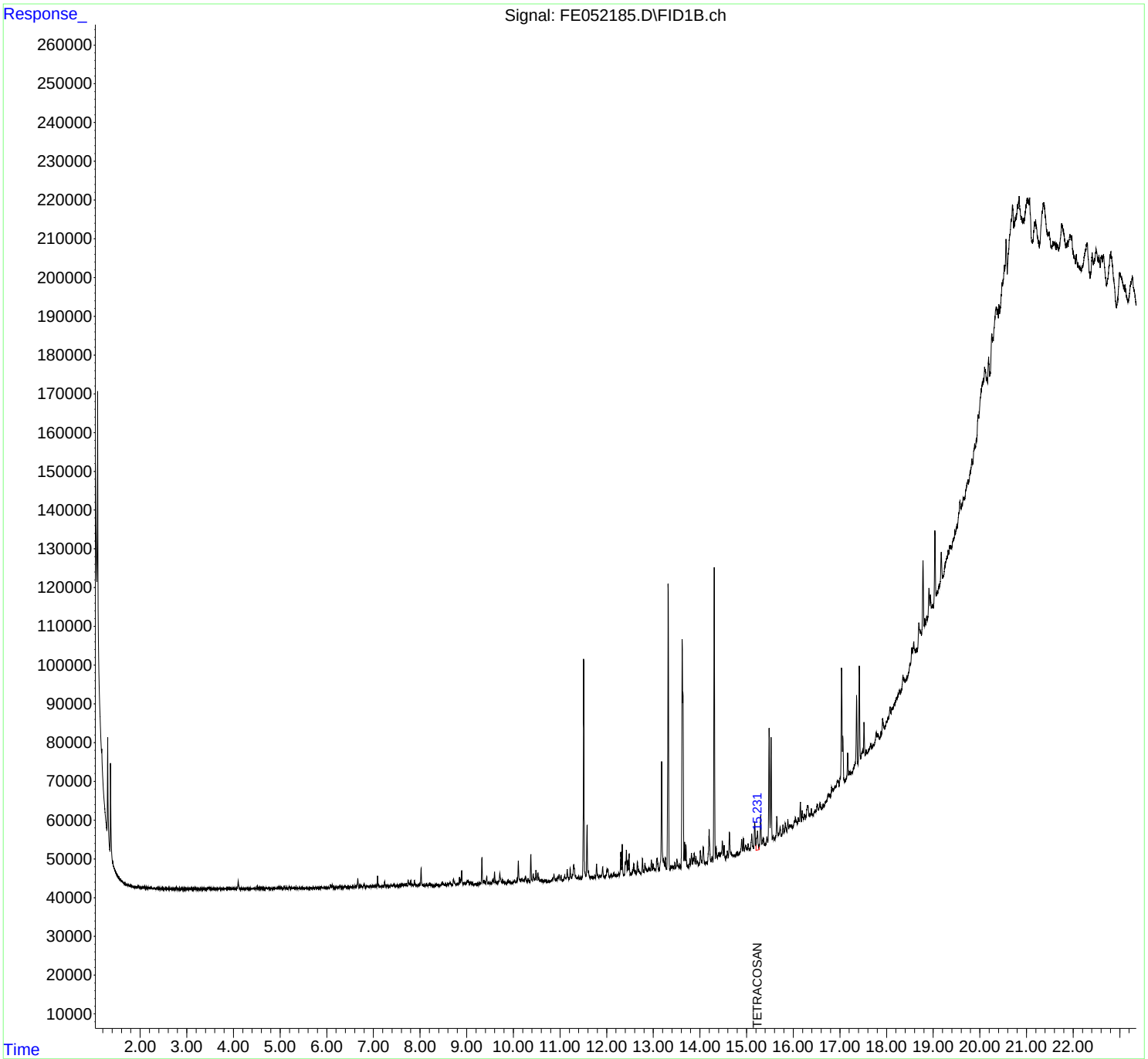
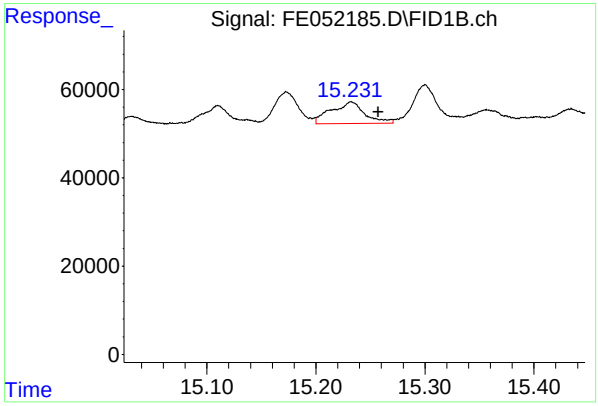
Supervised By :Ankita Jodhani 02/03/2025





#9 TETRACOSANE-d50 (SURROGATE)

R.T.:	15.231 min
Delta R.T.:	-0.026 mi
Response:	105253
Conc:	1.06 ug/m

Instrument :
FID_E
ClientSampleId :
JPP-5.2-013025

Manual Integrations
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Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Instrument :
FID_E
ClientSampleId :
JPP-5.2-013025

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052185.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 19:11
Sample : Q1241-09 10X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.869	4.852	4.873	BH	68	131	0.01%	0.000%
2	4.883	4.873	4.891	PH	87	353	0.02%	0.001%
3	4.913	4.891	4.919	PH	102	740	0.04%	0.002%
4	4.927	4.919	4.944	PH	137	613	0.03%	0.002%
5	4.970	4.944	4.993	PH	320	3938	0.20%	0.011%
6	4.999	4.993	5.053	HH	223	3073	0.15%	0.009%
7	5.084	5.053	5.105	PH	504	6187	0.31%	0.017%
8	5.109	5.105	5.114	HH	181	418	0.02%	0.001%
9	5.128	5.114	5.166	PH	369	4766	0.24%	0.013%
10	5.195	5.166	5.210	PH	443	5136	0.26%	0.014%
11	5.214	5.210	5.226	HH	292	1395	0.07%	0.004%
12	5.229	5.226	5.237	HH	130	631	0.03%	0.002%
13	5.245	5.237	5.271	PH	249	1847	0.09%	0.005%
14	5.284	5.271	5.293	HH	128	978	0.05%	0.003%
15	5.309	5.293	5.318	HH	90	630	0.03%	0.002%
16	5.341	5.318	5.363	HH	264	2980	0.15%	0.008%
17	5.377	5.363	5.384	PH	194	974	0.05%	0.003%
18	5.389	5.384	5.394	HH	139	484	0.02%	0.001%
19	5.398	5.394	5.406	PH	50	164	0.01%	0.000%
20	5.430	5.406	5.457	PH	209	1907	0.10%	0.005%
21	5.465	5.457	5.487	PH	177	1698	0.09%	0.005%
22	5.493	5.487	5.512	HH	160	1854	0.09%	0.005%
23	5.514	5.512	5.525	HH	138	629	0.03%	0.002%
24	5.533	5.525	5.539	PH	132	567	0.03%	0.002%
25	5.544	5.539	5.553	PH	120	657	0.03%	0.002%
26	5.572	5.553	5.592	HH	151	2183	0.11%	0.006%
27	5.595	5.592	5.607	HH	112	270	0.01%	0.001%
28	5.619	5.607	5.650	HH	142	2836	0.14%	0.008%
29	5.656	5.650	5.677	HH	233	2069	0.10%	0.006%
30	5.685	5.677	5.693	HH	116	749	0.04%	0.002%
31	5.704	5.693	5.729	HH	321	3284	0.17%	0.009%
32	5.734	5.729	5.742	HH	170	764	0.04%	0.002%
33	5.753	5.742	5.766	HH	214	2685	0.13%	0.008%
34	5.769	5.766	5.784	HH	282	2159	0.11%	0.006%
35	5.789	5.784	5.827	HH	163	2623	0.13%	0.007%
36	5.831	5.827	5.834	PH	95	367	0.02%	0.001%

Instrument :
FID_E
ClientSampleId :
JPP-5.2-013025

Manual IntegrationsAPPROVED

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					rteres			
37	5.842	5.834	5.849	HH	171	1025	0.05%	0.003%
38	5.852	5.849	5.858	HH	152	606		
39	5.863	5.858	5.868	HH	152	666		
40	5.872	5.868	5.877	HH	285	1050		
41	5.891	5.877	5.912	HH	384	4693		
42	5.917	5.912	5.927	HH	202	1527		
43	5.930	5.927	5.934	HH	193	651	0.03%	0.002%
44	5.946	5.934	5.986	HH	266	5866	0.29%	0.016%
45	5.991	5.986	6.000	HH	188	1346	0.07%	0.004%
46	6.008	6.000	6.021	HH	244	2005	0.10%	0.006%
47	6.037	6.021	6.063	HH	414	5299	0.27%	0.015%
48	6.080	6.063	6.096	HH	1049	11356	0.57%	0.032%
49	6.116	6.096	6.146	HH	987	15600	0.78%	0.044%
50	6.157	6.146	6.175	HH	321	3455	0.17%	0.010%
51	6.180	6.175	6.194	HH	141	1483	0.07%	0.004%
52	6.206	6.194	6.218	HH	304	2890	0.15%	0.008%
53	6.227	6.218	6.239	HH	241	2372	0.12%	0.007%
54	6.285	6.239	6.322	HH	790	18444	0.93%	0.052%
55	6.338	6.322	6.355	HH	355	4843	0.24%	0.014%
56	6.377	6.355	6.383	HH	568	6761	0.34%	0.019%
57	6.397	6.383	6.424	HH	563	10272	0.52%	0.029%
58	6.446	6.424	6.460	HH	521	6631	0.33%	0.019%
59	6.469	6.460	6.479	HH	333	3041	0.15%	0.009%
60	6.486	6.479	6.493	HH	397	2633	0.13%	0.007%
61	6.510	6.493	6.542	HH	473	10047	0.51%	0.028%
62	6.561	6.542	6.586	HH	812	11450	0.58%	0.032%
63	6.615	6.586	6.629	HH	606	10718	0.54%	0.030%
64	6.666	6.629	6.687	HH	2606	36924	1.86%	0.103%
65	6.696	6.687	6.726	HH	672	12583	0.63%	0.035%
66	6.745	6.726	6.771	HH	752	13928	0.70%	0.039%
67	6.774	6.771	6.782	HH	374	2517	0.13%	0.007%
68	6.802	6.782	6.827	HH	1385	21333	1.07%	0.060%
69	6.848	6.827	6.853	HH	652	8421	0.42%	0.024%
70	6.856	6.853	6.874	HH	746	7121	0.36%	0.020%
71	6.881	6.874	6.891	HH	585	4899	0.25%	0.014%
72	6.938	6.891	6.958	HH	802	22055	1.11%	0.062%
73	6.977	6.958	7.002	HH	728	14795	0.74%	0.041%
74	7.037	7.002	7.072	HH	771	25030	1.26%	0.070%
75	7.091	7.072	7.109	HH	3270	36963	1.86%	0.103%
76	7.122	7.109	7.140	HH	773	11647	0.59%	0.033%
77	7.147	7.140	7.152	HH	575	3510	0.18%	0.010%
78	7.163	7.152	7.190	HH	758	13492	0.68%	0.038%
79	7.194	7.190	7.197	HH	546	2168	0.11%	0.006%
80	7.213	7.197	7.226	HH	720	10273	0.52%	0.029%
81	7.243	7.226	7.265	HH	1837	25122	1.26%	0.070%
82	7.289	7.265	7.310	HH	791	18626	0.94%	0.052%
83	7.313	7.310	7.340	HH	751	10460	0.53%	0.029%
84	7.382	7.340	7.405	HH	890	23759	1.19%	0.066%
85	7.428	7.405	7.441	HH	1039	16138	0.81%	0.045%
86	7.445	7.441	7.472	HH	872	13587	0.68%	0.038%
87	7.492	7.472	7.504	HH	771	12617	0.63%	0.035%
88	7.517	7.504	7.536	HH	940	13343	0.67%	0.037%
89	7.554	7.536	7.570	HH	817	14481	0.73%	0.040%

Instrument :
FID_E
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JPP-5.2-013025

Manual IntegrationsAPPROVED

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rteres

90	7.597	7.570	7.604	HH	970	16569	0.83%	0.046%
91	7.614	7.604	7.630	HH	1222	15731		
92	7.632	7.630	7.642	HH	983	6614		
93	7.658	7.642	7.687	HH	1166	25592		
94	7.702	7.687	7.725	HH	1314	21197		
95	7.744	7.725	7.769	HH	2195	37101		
96	7.780	7.769	7.790	HH	1279	13933	0.70%	0.039%
97	7.801	7.790	7.822	HH	2067	26858	1.35%	0.075%
98	7.832	7.822	7.854	HH	976	16513	0.83%	0.046%
99	7.881	7.854	7.899	HH	2116	33646	1.69%	0.094%
100	7.913	7.899	7.932	HH	1136	18713	0.94%	0.052%
101	7.963	7.932	7.978	HH	999	23056	1.16%	0.064%
102	8.024	7.978	8.060	HH	5216	85229	4.29%	0.238%
103	8.079	8.060	8.108	HH	946	23453	1.18%	0.066%
104	8.120	8.108	8.140	HH	949	16267	0.82%	0.045%
105	8.143	8.140	8.147	HH	927	3445	0.17%	0.010%
106	8.149	8.147	8.170	HH	816	10660	0.54%	0.030%
107	8.199	8.170	8.212	HH	1347	24927	1.25%	0.070%
108	8.216	8.212	8.230	HH	1066	10392	0.52%	0.029%
109	8.240	8.230	8.270	HH	961	19105	0.96%	0.053%
110	8.275	8.270	8.280	HH	757	4297	0.22%	0.012%
111	8.284	8.280	8.297	HH	755	6567	0.33%	0.018%
112	8.317	8.297	8.322	HH	855	10792	0.54%	0.030%
113	8.347	8.322	8.367	HH	1002	22929	1.15%	0.064%
114	8.375	8.367	8.390	HH	1053	13095	0.66%	0.037%
115	8.392	8.390	8.412	HH	916	10525	0.53%	0.029%
116	8.427	8.412	8.450	HH	921	20092	1.01%	0.056%
117	8.473	8.450	8.495	HH	1706	33462	1.68%	0.094%
118	8.503	8.495	8.522	HH	1199	16164	0.81%	0.045%
119	8.545	8.522	8.570	HH	1224	28939	1.45%	0.081%
120	8.591	8.570	8.615	HH	1419	28063	1.41%	0.078%
121	8.630	8.615	8.636	HH	1412	15249	0.77%	0.043%
122	8.648	8.636	8.668	HH	1545	25425	1.28%	0.071%
123	8.675	8.668	8.696	HH	1111	16132	0.81%	0.045%
124	8.719	8.696	8.737	HH	2477	42129	2.12%	0.118%
125	8.741	8.737	8.768	HH	1639	22923	1.15%	0.064%
126	8.791	8.768	8.808	HH	1252	26662	1.34%	0.075%
127	8.815	8.808	8.829	HH	1202	14503	0.73%	0.041%
128	8.846	8.829	8.861	HH	2878	37644	1.89%	0.105%
129	8.874	8.861	8.878	HH	2329	20321	1.02%	0.057%
130	8.894	8.878	8.925	HH	4619	70874	3.56%	0.198%
131	8.941	8.925	8.952	HH	1467	21676	1.09%	0.061%
132	8.962	8.952	8.973	HH	1324	14908	0.75%	0.042%
133	9.009	8.973	9.025	HH	1860	48520	2.44%	0.136%
134	9.033	9.025	9.067	HH	2020	39817	2.00%	0.111%
135	9.084	9.067	9.108	HH	1693	35271	1.77%	0.099%
136	9.124	9.108	9.153	HH	1538	33371	1.68%	0.093%
137	9.165	9.153	9.173	HH	1198	13304	0.67%	0.037%
138	9.180	9.173	9.190	HH	1259	11574	0.58%	0.032%
139	9.192	9.190	9.218	HH	1443	18546	0.93%	0.052%
140	9.221	9.218	9.242	HH	1063	14822	0.75%	0.041%
141	9.276	9.242	9.297	HH	1504	41426	2.08%	0.116%

Instrument :
FID_E
ClientSampleId :
JPP-5.2-013025

Manual IntegrationsAPPROVED

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rteres

142	9.328	9.297	9.352	HH	8070	110975	5.58%	0.310%
143	9.363	9.352	9.369	HH	2067	18342		
144	9.377	9.369	9.400	HH	2043	31926		
145	9.430	9.400	9.462	HH	3090	68724		
146	9.480	9.462	9.499	HH	1682	32493		
147	9.520	9.499	9.537	HH	1521	30580		
148	9.564	9.537	9.582	HH	2347	49199	2.47%	0.138%
149	9.599	9.582	9.626	HH	4281	65817	3.31%	0.184%
150	9.634	9.626	9.647	HH	1772	20214	1.02%	0.057%
151	9.653	9.647	9.665	HH	1629	17204	0.86%	0.048%
152	9.675	9.665	9.681	HH	1744	15531	0.78%	0.043%
153	9.712	9.681	9.752	HH	3978	100250	5.04%	0.280%
154	9.772	9.752	9.790	HH	2330	41506	2.09%	0.116%
155	9.800	9.790	9.818	HH	1659	25953	1.30%	0.073%
156	9.825	9.818	9.851	HH	1456	27107	1.36%	0.076%
157	9.887	9.851	9.906	HH	2276	53977	2.71%	0.151%
158	9.920	9.906	9.961	HH	1922	52360	2.63%	0.146%
159	9.971	9.961	9.984	HH	1515	19649	0.99%	0.055%
160	10.022	9.984	10.047	HH	2230	66103	3.32%	0.185%
161	10.077	10.047	10.088	HH	2373	48196	2.42%	0.135%
162	10.109	10.088	10.148	HH	7129	125266	6.30%	0.350%
163	10.170	10.148	10.175	HH	2426	34323	1.73%	0.096%
164	10.188	10.175	10.207	HH	2658	45567	2.29%	0.127%
165	10.227	10.207	10.238	HH	2282	38321	1.93%	0.107%
166	10.260	10.238	10.296	HH	3158	81825	4.11%	0.229%
167	10.319	10.296	10.355	HH	2575	71517	3.60%	0.200%
168	10.377	10.355	10.404	HH	8828	124948	6.28%	0.349%
169	10.427	10.404	10.457	HH	3758	87214	4.38%	0.244%
170	10.485	10.457	10.509	HH	4725	93940	4.72%	0.263%
171	10.527	10.509	10.545	HH	3933	63990	3.22%	0.179%
172	10.550	10.545	10.574	HH	2479	37630	1.89%	0.105%
173	10.591	10.574	10.647	HH	2340	87184	4.38%	0.244%
174	10.688	10.647	10.712	HH	2155	76245	3.83%	0.213%
175	10.717	10.712	10.742	HH	1864	31314	1.57%	0.088%
176	10.746	10.742	10.754	HH	1812	12805	0.64%	0.036%
177	10.772	10.754	10.807	HH	1977	58515	2.94%	0.164%
178	10.847	10.807	10.856	HH	2653	67577	3.40%	0.189%
179	10.874	10.856	10.908	HH	3568	83967	4.22%	0.235%
180	10.920	10.908	10.936	HH	2420	38174	1.92%	0.107%
181	10.954	10.936	10.967	HH	3037	50256	2.53%	0.140%
182	10.984	10.967	11.007	HH	3528	69435	3.49%	0.194%
183	11.024	11.007	11.057	HH	3367	77952	3.92%	0.218%
184	11.102	11.057	11.119	HH	3209	94444	4.75%	0.264%
185	11.133	11.119	11.138	HH	2796	30936	1.56%	0.086%
186	11.158	11.138	11.190	HH	5008	104963	5.28%	0.293%
187	11.218	11.190	11.247	HH	5289	116407	5.85%	0.325%
188	11.269	11.247	11.276	HH	3607	54965	2.76%	0.154%
189	11.295	11.276	11.327	HH	6178	147993	7.44%	0.414%
190	11.336	11.327	11.361	HH	3320	58637	2.95%	0.164%
191	11.374	11.361	11.378	HH	2652	27730	1.39%	0.078%
192	11.399	11.378	11.416	HH	3201	63736	3.20%	0.178%
193	11.429	11.416	11.458	HH	2840	66539	3.35%	0.186%
194	11.475	11.458	11.483	HH	3238	43321	2.18%	0.121%

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JPP-5.2-013025

rteres

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195	11.507	11.483	11.558	HH	59207	714912	35.94%	1.999%
196	11.582	11.558	11.602	HH	16371	218870	11	
197	11.608	11.602	11.654	HH	4458	107774	5	
198	11.670	11.654	11.700	HH	3033	77237	3	
199	11.709	11.700	11.736	HH	2903	59465	2	
200	11.751	11.736	11.767	HH	3448	57031	2	
201	11.786	11.767	11.835	HH	6264	156889	7.89%	0.439%
202	11.849	11.835	11.856	HH	3285	38200	1.92%	0.107%
203	11.862	11.856	11.881	HH	3237	45292	2.28%	0.127%
204	11.917	11.881	11.953	HH	5668	163321	8.21%	0.457%
205	12.010	11.953	12.019	HH	5017	145477	7.31%	0.407%
206	12.030	12.019	12.070	HH	4931	114022	5.73%	0.319%
207	12.093	12.070	12.110	HH	3711	79273	3.99%	0.222%
208	12.111	12.110	12.124	HH	3291	27302	1.37%	0.076%
209	12.155	12.124	12.187	HH	4160	128035	6.44%	0.358%
210	12.193	12.187	12.215	HH	3579	57144	2.87%	0.160%
211	12.219	12.215	12.223	HH	3342	17167	0.86%	0.048%
212	12.231	12.223	12.242	HH	3493	38629	1.94%	0.108%
213	12.258	12.242	12.275	HH	4055	70913	3.57%	0.198%
214	12.303	12.275	12.317	HH	9317	152882	7.69%	0.427%
215	12.334	12.317	12.364	HH	11328	183476	9.22%	0.513%
216	12.400	12.364	12.408	HH	6911	123613	6.21%	0.346%
217	12.421	12.408	12.437	HH	9929	133235	6.70%	0.372%
218	12.452	12.437	12.466	HH	7234	100809	5.07%	0.282%
219	12.482	12.466	12.508	HH	8860	151677	7.63%	0.424%
220	12.520	12.508	12.534	HH	4046	60690	3.05%	0.170%
221	12.581	12.534	12.619	HH	6465	240007	12.07%	0.671%
222	12.625	12.619	12.641	HH	4273	52127	2.62%	0.146%
223	12.660	12.641	12.681	HH	6858	126993	6.38%	0.355%
224	12.692	12.681	12.727	HH	4532	116325	5.85%	0.325%
225	12.767	12.727	12.793	HH	7789	198612	9.99%	0.555%
226	12.821	12.793	12.850	HH	6519	176001	8.85%	0.492%
227	12.855	12.850	12.877	HH	5122	77717	3.91%	0.217%
228	12.892	12.877	12.903	HH	5036	76674	3.86%	0.214%
229	12.916	12.903	12.941	HH	5348	111848	5.62%	0.313%
230	12.960	12.941	12.982	HH	7310	141918	7.14%	0.397%
231	12.997	12.982	13.032	HH	6395	161260	8.11%	0.451%
232	13.041	13.032	13.054	HH	5097	65430	3.29%	0.183%
233	13.083	13.054	13.128	HH	7753	271098	13.63%	0.758%
234	13.176	13.128	13.209	HH	32544	594851	29.91%	1.663%
235	13.219	13.209	13.241	HH	7649	133651	6.72%	0.374%
236	13.260	13.241	13.292	HH	7984	187359	9.42%	0.524%
237	13.318	13.292	13.356	HH	78479	968917	48.71%	2.709%
238	13.378	13.356	13.392	HH	5863	116029	5.83%	0.324%
239	13.412	13.392	13.442	HH	5762	161958	8.14%	0.453%
240	13.463	13.442	13.482	HH	6616	142272	7.15%	0.398%
241	13.505	13.482	13.532	HH	7586	192098	9.66%	0.537%
242	13.538	13.532	13.557	HH	5760	80792	4.06%	0.226%
243	13.575	13.557	13.591	HH	6124	116161	5.84%	0.325%
244	13.618	13.591	13.629	HH	64202	782273	39.33%	2.187%
245	13.634	13.629	13.656	HH	50306	496782	24.98%	1.389%
246	13.670	13.656	13.684	HH	12038	160126	8.05%	0.448%

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rteres

247	13.699	13.684	13.729	HH	11218	218781	11.00%	0.612%
248	13.738	13.729	13.758	HH	5859	99393	5	
249	13.784	13.758	13.799	HH	7616	156452	7	
250	13.818	13.799	13.840	HH	9133	187339	9	
251	13.856	13.840	13.865	HH	7816	105813	5	
252	13.877	13.865	13.898	HH	9120	156802	7	
253	13.912	13.898	13.930	HH	8240	139579	7.02%	0.390%
254	13.949	13.930	13.970	HH	7117	158444	7.97%	0.443%
255	14.008	13.970	14.038	HH	9713	303625	15.27%	0.849%
256	14.070	14.038	14.095	HH	10777	282744	14.22%	0.790%
257	14.105	14.095	14.119	HH	6618	93855	4.72%	0.262%
258	14.130	14.119	14.148	HH	6816	115690	5.82%	0.323%
259	14.199	14.148	14.238	HH	15171	493665	24.82%	1.380%
260	14.259	14.238	14.277	HH	8244	173861	8.74%	0.486%
261	14.304	14.277	14.332	HH	82854	1057249	53.16%	2.956%
262	14.348	14.332	14.373	HH	10804	220908	11.11%	0.618%
263	14.389	14.373	14.397	HH	8680	118940	5.98%	0.332%
264	14.407	14.397	14.426	HH	9307	153372	7.71%	0.429%
265	14.434	14.426	14.442	HH	8830	84477	4.25%	0.236%
266	14.453	14.442	14.461	HH	9320	101284	5.09%	0.283%
267	14.479	14.461	14.500	HH	12276	244815	12.31%	0.684%
268	14.518	14.500	14.548	HH	11142	263994	13.27%	0.738%
269	14.588	14.548	14.607	HH	9736	295309	14.85%	0.826%
270	14.631	14.607	14.662	HH	14667	363766	18.29%	1.017%
271	14.670	14.662	14.694	HH	9149	168413	8.47%	0.471%
272	14.698	14.694	14.711	HH	8684	88106	4.43%	0.246%
273	14.723	14.711	14.741	HH	8765	153562	7.72%	0.429%
274	14.748	14.741	14.756	HH	8674	73317	3.69%	0.205%
275	14.789	14.756	14.827	HH	9381	382225	19.22%	1.069%
276	14.839	14.827	14.848	HH	9137	112271	5.64%	0.314%
277	14.893	14.848	14.913	HH	12753	405955	20.41%	1.135%
278	14.933	14.913	14.954	HH	12984	274784	13.82%	0.768%
279	14.978	14.954	15.004	HH	10962	314089	15.79%	0.878%
280	15.031	15.004	15.063	HH	11552	372999	18.75%	1.043%
281	15.110	15.063	15.149	HH	14018	586332	29.48%	1.639%
282	15.173	15.149	15.197	HH	17112	390134	19.62%	1.091%
283	15.232	15.197	15.266	HH	14839	517615	26.02%	1.447%
284	15.300	15.266	15.336	HH	18733	566630	28.49%	1.584%
285	15.357	15.336	15.387	HH	13074	369070	18.56%	1.032%
286	15.403	15.387	15.411	HH	11460	164556	8.27%	0.460%
287	15.434	15.411	15.454	HH	13330	320440	16.11%	0.896%
288	15.482	15.454	15.503	HH	41383	709871	35.69%	1.984%
289	15.524	15.503	15.551	HH	39087	670199	33.70%	1.874%
290	15.565	15.551	15.584	HH	13437	259325	13.04%	0.725%
291	15.591	15.584	15.596	HH	12694	87546	4.40%	0.245%
292	15.647	15.596	15.681	HH	18554	744553	37.43%	2.081%
293	15.685	15.681	15.688	HH	13975	58880	2.96%	0.165%
294	15.717	15.688	15.752	HH	15919	558978	28.10%	1.563%
295	15.778	15.752	15.807	HH	16341	485684	24.42%	1.358%
296	15.828	15.807	15.862	HH	16879	514269	25.86%	1.438%
297	15.884	15.862	15.902	HH	17531	390572	19.64%	1.092%
298	15.924	15.902	15.941	HH	16419	376545	18.93%	1.053%
299	15.958	15.941	15.981	HH	16376	386788	19.45%	1.081%

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rteres

300	16.021	15.997	16.032	HH	17494	359293	18.06%	1.004%
301	16.047	16.032	16.067	HH	18194	361598	18	
302	16.110	16.092	16.130	HH	18232	400243	20	
303	16.152	16.130	16.172	HH	22236	493654	24	
304	17.289	17.270	17.294	HH	31065	437652	22	
305	17.358	17.294	17.387	HH	49782	1988954	100	
306	17.415	17.387	17.447	HH	57442	1465730	73.69%	4.097%

Sum of corrected areas: 35771612

FE012325.M Mon Feb 03 02:31:34 2025

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-5.4-013025	SDG No.:	Q1241
Lab Sample ID:	Q1241-13	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	87 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052186.D	10	01/31/25 08:50	01/31/25 19:41	PB166415

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	284000		2120	19100	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	2.42		37 - 130	121%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance 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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052186.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 19:41
Operator : YP\AJ
Sample : Q1241-13 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-5.4-013025

Integration File: autoint1.e
Quant Time: Feb 03 00:13:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	15.232	240979	2.420 ug/ml
	Target Compounds			

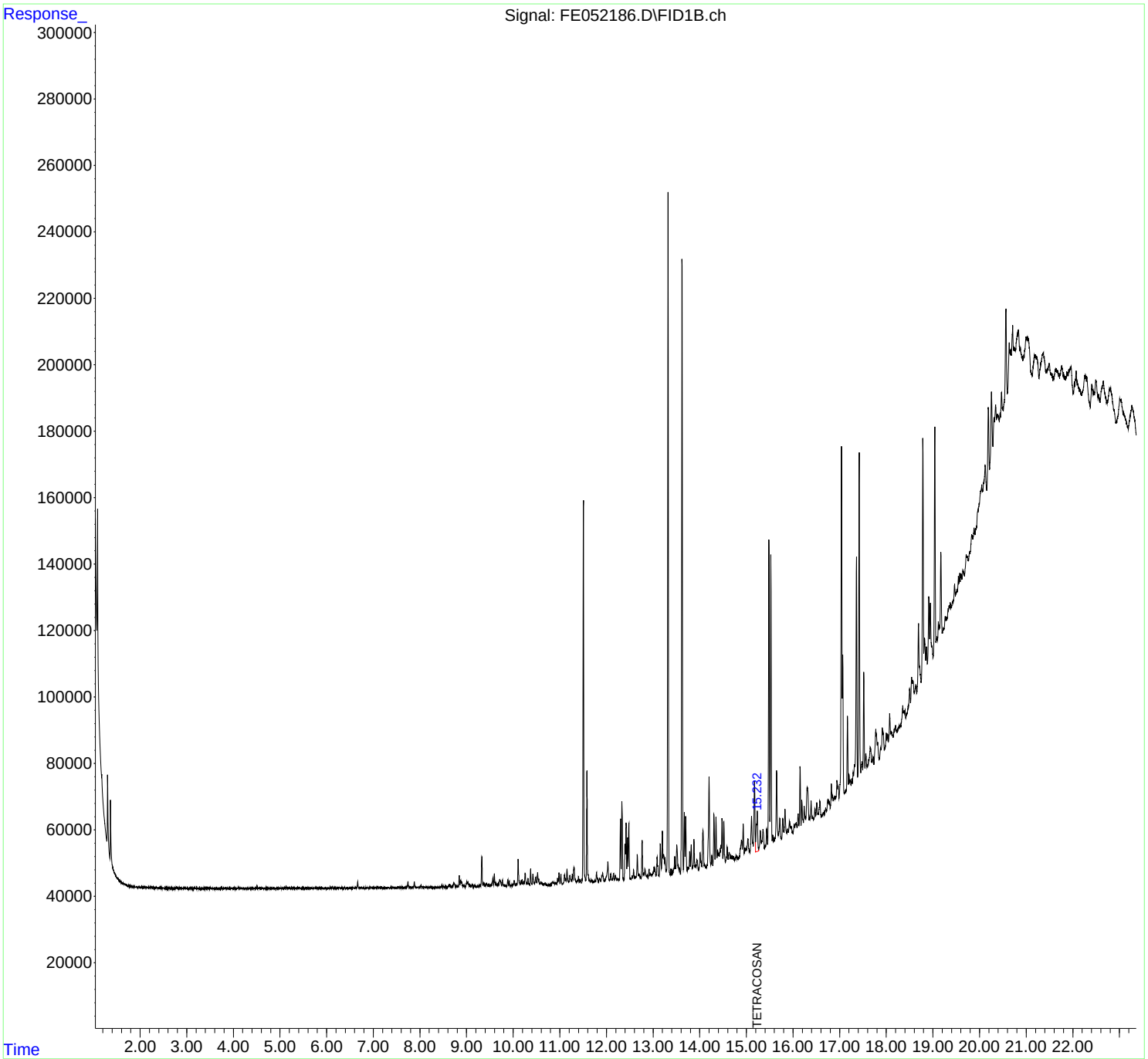
(f)=RT Delta > 1/2 Window (m)=manual int.

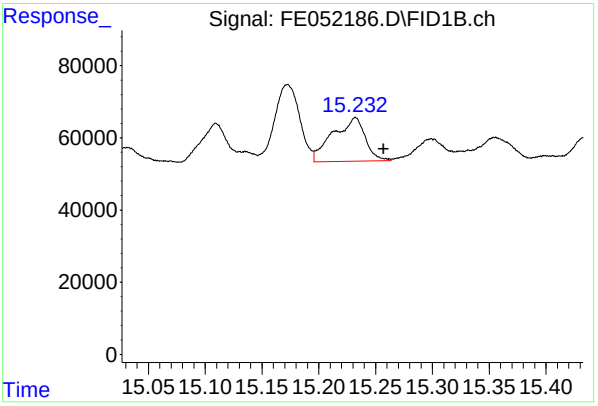
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052186.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 19:41
Operator : YP\AJ
Sample : Q1241-13 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-5.4-013025

Integration File: autoint1.e
Quant Time: Feb 03 00:13:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.:	15.232 min
Delta R.T.:	-0.025 mir
Response:	240979
Conc:	2.42 ug/m

Instrument :
FID_E
ClientSampleId :
JPP-5.4-013025

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052186.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 19:41
Sample : Q1241-13 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.858	4.852	4.863	BH	36	70	0.00%	0.000%
2	4.868	4.863	4.891	PH	136	413	0.02%	0.001%
3	4.923	4.891	4.934	PH	141	1195	0.05%	0.002%
4	4.939	4.934	4.943	HH	69	179	0.01%	0.000%
5	4.966	4.943	4.988	PH	254	2540	0.10%	0.003%
6	4.992	4.988	4.995	PH	78	144	0.01%	0.000%
7	5.003	4.995	5.008	HH	102	498	0.02%	0.001%
8	5.019	5.008	5.028	HH	139	1202	0.05%	0.002%
9	5.045	5.028	5.053	PH	163	1347	0.05%	0.002%
10	5.057	5.053	5.067	HH	140	551	0.02%	0.001%
11	5.070	5.067	5.077	HH	92	437	0.02%	0.001%
12	5.087	5.077	5.102	HH	153	837	0.03%	0.001%
13	5.130	5.102	5.173	PH	448	6689	0.26%	0.008%
14	5.187	5.173	5.192	HH	194	1437	0.06%	0.002%
15	5.199	5.192	5.233	HH	234	3673	0.15%	0.005%
16	5.247	5.233	5.264	HH	204	2230	0.09%	0.003%
17	5.274	5.264	5.303	PH	150	2622	0.10%	0.003%
18	5.307	5.303	5.311	HH	98	420	0.02%	0.001%
19	5.319	5.311	5.325	HH	199	979	0.04%	0.001%
20	5.341	5.325	5.347	HH	184	1837	0.07%	0.002%
21	5.358	5.347	5.375	HH	227	2007	0.08%	0.003%
22	5.379	5.375	5.385	HH	196	839	0.03%	0.001%
23	5.387	5.385	5.402	HH	190	1082	0.04%	0.001%
24	5.426	5.402	5.441	HH	173	2207	0.09%	0.003%
25	5.465	5.441	5.472	PH	249	1687	0.07%	0.002%
26	5.474	5.472	5.483	HH	168	633	0.03%	0.001%
27	5.487	5.483	5.521	HH	190	1470	0.06%	0.002%
28	5.544	5.521	5.548	PH	101	1004	0.04%	0.001%
29	5.555	5.548	5.581	HH	193	2224	0.09%	0.003%
30	5.584	5.581	5.595	HH	157	654	0.03%	0.001%
31	5.615	5.595	5.639	HH	136	1829	0.07%	0.002%
32	5.650	5.639	5.656	PH	84	563	0.02%	0.001%
33	5.660	5.656	5.696	PH	201	2601	0.10%	0.003%
34	5.702	5.696	5.728	HH	198	2290	0.09%	0.003%
35	5.731	5.728	5.745	HH	239	1000	0.04%	0.001%
36	5.753	5.745	5.759	HH	153	1184	0.05%	0.001%

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37	5.772	5.759	5.799	HH	213	2645	0.10%	0.003%
38	5.804	5.799	5.821	PH	168	1387	0.05%	0.002%
39	5.825	5.821	5.832	HH	144	573	0.02%	0.001%
40	5.842	5.832	5.870	HH	98	1820	0.07%	0.002%
41	5.890	5.870	5.919	HH	305	4215	0.17%	0.005%
42	5.931	5.919	5.935	HH	131	826	0.03%	0.001%
43	5.941	5.935	5.950	HH	167	873	0.03%	0.001%
44	5.958	5.950	5.965	HH	115	915	0.04%	0.001%
45	5.973	5.965	6.014	HH	181	1513	0.06%	0.002%
46	6.035	6.014	6.052	HH	183	1570	0.06%	0.002%
47	6.058	6.052	6.063	HH	128	505	0.02%	0.001%
48	6.080	6.063	6.099	HH	342	4366	0.17%	0.006%
49	6.115	6.099	6.131	HH	440	5504	0.22%	0.007%
50	6.135	6.131	6.142	HH	197	877	0.03%	0.001%
51	6.147	6.142	6.166	HH	116	921	0.04%	0.001%
52	6.174	6.166	6.189	HH	110	942	0.04%	0.001%
53	6.193	6.189	6.197	HH	130	353	0.01%	0.000%
54	6.207	6.197	6.237	HH	116	2074	0.08%	0.003%
55	6.249	6.237	6.255	HH	253	1121	0.04%	0.001%
56	6.270	6.255	6.286	HH	214	3088	0.12%	0.004%
57	6.291	6.286	6.297	HH	203	935	0.04%	0.001%
58	6.299	6.297	6.355	HH	175	3612	0.14%	0.005%
59	6.381	6.355	6.387	HH	195	2721	0.11%	0.003%
60	6.390	6.387	6.395	HH	185	993	0.04%	0.001%
61	6.400	6.395	6.411	HH	187	1468	0.06%	0.002%
62	6.419	6.411	6.425	HH	152	931	0.04%	0.001%
63	6.430	6.425	6.434	HH	138	556	0.02%	0.001%
64	6.443	6.434	6.487	HH	214	3898	0.15%	0.005%
65	6.522	6.487	6.538	HH	273	4352	0.17%	0.006%
66	6.556	6.538	6.577	HH	250	3252	0.13%	0.004%
67	6.579	6.577	6.585	HH	183	584	0.02%	0.001%
68	6.598	6.585	6.602	HH	129	1201	0.05%	0.002%
69	6.614	6.602	6.624	HH	214	1946	0.08%	0.002%
70	6.667	6.624	6.689	HH	2114	25185	1.00%	0.032%
71	6.716	6.689	6.746	HH	279	6882	0.27%	0.009%
72	6.750	6.746	6.762	HH	186	1591	0.06%	0.002%
73	6.766	6.762	6.780	HH	196	1799	0.07%	0.002%
74	6.800	6.780	6.828	HH	396	6853	0.27%	0.009%
75	6.832	6.828	6.851	HH	192	2429	0.10%	0.003%
76	6.858	6.851	6.862	HH	223	1263	0.05%	0.002%
77	6.867	6.862	6.910	HH	226	5132	0.20%	0.006%
78	6.934	6.910	6.955	HH	250	5200	0.21%	0.007%
79	6.961	6.955	6.964	HH	224	924	0.04%	0.001%
80	6.968	6.964	6.970	HH	210	794	0.03%	0.001%
81	6.974	6.970	6.984	HH	235	1541	0.06%	0.002%
82	6.989	6.984	7.007	HH	237	2282	0.09%	0.003%
83	7.022	7.007	7.027	HH	277	2610	0.10%	0.003%
84	7.033	7.027	7.039	HH	244	1554	0.06%	0.002%
85	7.046	7.039	7.062	HH	239	2719	0.11%	0.003%
86	7.092	7.062	7.108	HH	524	8420	0.33%	0.011%
87	7.113	7.108	7.141	HH	305	4625	0.18%	0.006%
88	7.167	7.141	7.182	HH	341	6268	0.25%	0.008%
89	7.191	7.182	7.207	HH	247	2669	0.11%	0.003%

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90	7.213	7.207	7.225	HH	247	1999	0.08%	0.003%
91	7.238	7.225	7.275	HH	335	6662	0.26%	0.008%
92	7.287	7.275	7.295	HH	272	2340	0.09%	0.003%
93	7.301	7.295	7.312	HH	271	2422	0.10%	0.003%
94	7.315	7.312	7.340	HH	259	3428	0.14%	0.004%
95	7.393	7.340	7.418	HH	354	10412	0.41%	0.013%
96	7.429	7.418	7.469	HH	275	6812	0.27%	0.009%
97	7.476	7.469	7.481	HH	210	1306	0.05%	0.002%
98	7.486	7.481	7.492	HH	231	1362	0.05%	0.002%
99	7.494	7.492	7.500	HH	252	947	0.04%	0.001%
100	7.513	7.500	7.532	HH	416	5574	0.22%	0.007%
101	7.551	7.532	7.565	HH	372	5381	0.21%	0.007%
102	7.584	7.565	7.589	HH	359	3987	0.16%	0.005%
103	7.595	7.589	7.600	HH	358	1990	0.08%	0.003%
104	7.608	7.600	7.620	HH	391	3594	0.14%	0.005%
105	7.625	7.620	7.662	HH	447	8066	0.32%	0.010%
106	7.675	7.662	7.690	HH	395	5756	0.23%	0.007%
107	7.695	7.690	7.721	HH	307	5388	0.21%	0.007%
108	7.743	7.721	7.788	HH	2003	29867	1.18%	0.038%
109	7.800	7.788	7.811	HH	506	5630	0.22%	0.007%
110	7.815	7.811	7.827	HH	383	3276	0.13%	0.004%
111	7.832	7.827	7.858	HH	407	5828	0.23%	0.007%
112	7.880	7.858	7.914	HH	2099	27717	1.10%	0.035%
113	7.923	7.914	7.941	HH	378	5568	0.22%	0.007%
114	7.959	7.941	7.977	HH	433	7694	0.30%	0.010%
115	7.997	7.977	8.002	HH	500	6019	0.24%	0.008%
116	8.023	8.002	8.073	HH	1072	22977	0.91%	0.029%
117	8.079	8.073	8.084	HH	426	2193	0.09%	0.003%
118	8.092	8.084	8.123	HH	372	8511	0.34%	0.011%
119	8.130	8.123	8.145	HH	412	4994	0.20%	0.006%
120	8.156	8.145	8.170	HH	390	4956	0.20%	0.006%
121	8.217	8.170	8.227	HH	447	12075	0.48%	0.015%
122	8.234	8.227	8.272	HH	466	9435	0.37%	0.012%
123	8.275	8.272	8.290	HH	329	3237	0.13%	0.004%
124	8.306	8.290	8.316	HH	346	4653	0.18%	0.006%
125	8.323	8.316	8.332	HH	435	3217	0.13%	0.004%
126	8.339	8.332	8.350	HH	443	4213	0.17%	0.005%
127	8.367	8.350	8.394	HH	438	9551	0.38%	0.012%
128	8.404	8.394	8.409	HH	409	3314	0.13%	0.004%
129	8.413	8.409	8.415	HH	352	1316	0.05%	0.002%
130	8.438	8.415	8.450	HH	494	9011	0.36%	0.011%
131	8.468	8.450	8.497	HH	1086	19684	0.78%	0.025%
132	8.512	8.497	8.524	HH	591	7694	0.30%	0.010%
133	8.545	8.524	8.557	HH	529	9468	0.37%	0.012%
134	8.559	8.557	8.574	HH	527	4569	0.18%	0.006%
135	8.592	8.574	8.606	HH	621	9965	0.39%	0.013%
136	8.628	8.606	8.667	HH	1265	29335	1.16%	0.037%
137	8.672	8.667	8.693	HH	667	9113	0.36%	0.012%
138	8.722	8.693	8.733	HH	1727	24667	0.98%	0.031%
139	8.740	8.733	8.777	HH	1543	25069	0.99%	0.032%
140	8.797	8.777	8.806	HH	775	11795	0.47%	0.015%
141	8.810	8.806	8.822	HH	699	6502	0.26%	0.008%

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142	8.845	8.822	8.860	HH	4012	47153	1.87%	0.060%
143	8.873	8.860	8.884	HH	2504	27348	1.08%	0.035%
144	8.894	8.884	8.931	HH	2041	35088	1.39%	0.044%
145	8.942	8.931	8.971	HH	799	16867	0.67%	0.021%
146	9.007	8.971	9.024	HH	1967	42549	1.68%	0.054%
147	9.032	9.024	9.063	HH	1739	29874	1.18%	0.038%
148	9.079	9.063	9.104	HH	921	19651	0.78%	0.025%
149	9.121	9.104	9.150	HH	1437	25260	1.00%	0.032%
150	9.162	9.150	9.176	HH	827	11091	0.44%	0.014%
151	9.184	9.176	9.213	HH	734	14049	0.56%	0.018%
152	9.220	9.213	9.241	HH	621	9551	0.38%	0.012%
153	9.246	9.241	9.250	HH	647	3273	0.13%	0.004%
154	9.273	9.250	9.300	HH	946	24249	0.96%	0.031%
155	9.327	9.300	9.348	HH	9607	108382	4.29%	0.137%
156	9.363	9.348	9.405	HH	1746	41093	1.63%	0.052%
157	9.429	9.405	9.459	HH	1649	37415	1.48%	0.047%
158	9.477	9.459	9.499	HH	1335	25126	0.99%	0.032%
159	9.513	9.499	9.522	HH	983	13058	0.52%	0.017%
160	9.533	9.522	9.540	HH	1008	10439	0.41%	0.013%
161	9.564	9.540	9.581	HH	3138	48395	1.91%	0.061%
162	9.597	9.581	9.617	HH	4469	55800	2.21%	0.071%
163	9.633	9.617	9.664	HH	1652	33902	1.34%	0.043%
164	9.683	9.664	9.694	HH	1591	23312	0.92%	0.029%
165	9.711	9.694	9.724	HH	2731	37594	1.49%	0.048%
166	9.729	9.724	9.749	HH	2408	25910	1.03%	0.033%
167	9.771	9.749	9.822	HH	2610	58892	2.33%	0.074%
168	9.830	9.822	9.859	HH	902	17916	0.71%	0.023%
169	9.887	9.859	9.903	HH	2706	40433	1.60%	0.051%
170	9.918	9.903	9.951	HH	2237	37651	1.49%	0.048%
171	9.957	9.951	9.965	HH	891	7419	0.29%	0.009%
172	9.974	9.965	9.986	HH	1060	11969	0.47%	0.015%
173	10.023	9.986	10.043	HH	2450	50958	2.02%	0.064%
174	10.071	10.043	10.073	HH	1258	21165	0.84%	0.027%
175	10.108	10.073	10.148	HH	8923	140213	5.55%	0.177%
176	10.188	10.148	10.210	HH	2590	68156	2.70%	0.086%
177	10.227	10.210	10.239	HH	2307	31456	1.24%	0.040%
178	10.259	10.239	10.296	HH	4451	86381	3.42%	0.109%
179	10.317	10.296	10.353	HH	2982	62801	2.48%	0.079%
180	10.375	10.353	10.402	HH	5930	80434	3.18%	0.102%
181	10.425	10.402	10.449	HH	4342	73169	2.89%	0.092%
182	10.485	10.449	10.507	HH	3413	76655	3.03%	0.097%
183	10.526	10.507	10.540	HH	4834	65027	2.57%	0.082%
184	10.549	10.540	10.575	HH	2814	42118	1.67%	0.053%
185	10.590	10.575	10.605	HH	1978	28998	1.15%	0.037%
186	10.619	10.605	10.641	HH	1701	30339	1.20%	0.038%
187	10.658	10.641	10.672	HH	1404	24103	0.95%	0.030%
188	10.683	10.672	10.744	HH	1620	53842	2.13%	0.068%
189	10.757	10.744	10.765	HH	1048	12874	0.51%	0.016%
190	10.809	10.765	10.823	HH	1307	39936	1.58%	0.050%
191	10.843	10.823	10.861	HH	2179	39215	1.55%	0.050%
192	10.874	10.861	10.884	HH	1843	23094	0.91%	0.029%
193	10.898	10.884	10.909	HH	1726	23878	0.94%	0.030%
194	10.922	10.909	10.931	HH	1722	21416	0.85%	0.027%

195	10.951	10.931	10.964	HH	3060	45248	1.79%	0.057%
196	10.983	10.964	11.005	HH	4722	78956	3.12%	0.100%
197	11.025	11.005	11.052	HH	4242	70004	2.77%	0.088%
198	11.100	11.052	11.117	HH	4145	92375	3.65%	0.117%
199	11.127	11.117	11.139	HH	2807	33904	1.34%	0.043%
200	11.156	11.139	11.189	HH	5952	104086	4.12%	0.132%
201	11.218	11.189	11.247	HH	3938	95316	3.77%	0.120%
202	11.268	11.247	11.281	HH	4333	67535	2.67%	0.085%
203	11.308	11.281	11.327	HH	6373	131708	5.21%	0.166%
204	11.334	11.327	11.352	HH	2788	36298	1.44%	0.046%
205	11.357	11.352	11.360	HH	2058	10108	0.40%	0.013%
206	11.399	11.360	11.415	HH	3651	83983	3.32%	0.106%
207	11.430	11.415	11.457	HH	2637	55869	2.21%	0.071%
208	11.475	11.457	11.482	HH	2894	36241	1.43%	0.046%
209	11.507	11.482	11.557	HH	116638	1264582	50.03%	1.598%
210	11.581	11.557	11.652	HH	35412	482982	19.11%	0.610%
211	11.670	11.652	11.702	HH	2622	67836	2.68%	0.086%
212	11.711	11.702	11.734	HH	2210	39878	1.58%	0.050%
213	11.749	11.734	11.764	HH	2414	39724	1.57%	0.050%
214	11.787	11.764	11.830	HH	4800	118892	4.70%	0.150%
215	11.855	11.830	11.875	HH	2971	69706	2.76%	0.088%
216	11.896	11.875	11.904	HH	3870	52738	2.09%	0.067%
217	11.917	11.904	11.953	HH	4708	101437	4.01%	0.128%
218	12.028	11.953	12.069	HH	8045	260504	10.31%	0.329%
219	12.092	12.069	12.127	HH	4470	111280	4.40%	0.141%
220	12.153	12.127	12.172	HH	4534	92245	3.65%	0.117%
221	12.191	12.172	12.217	HH	3806	84390	3.34%	0.107%
222	12.231	12.217	12.242	HH	2924	41418	1.64%	0.052%
223	12.254	12.242	12.269	HH	3020	44560	1.76%	0.056%
224	12.302	12.269	12.317	HH	20964	272685	10.79%	0.345%
225	12.333	12.317	12.372	HH	26184	332060	13.14%	0.420%
226	12.398	12.372	12.407	HH	13440	162954	6.45%	0.206%
227	12.421	12.407	12.437	HH	19827	238637	9.44%	0.302%
228	12.451	12.437	12.465	HH	15320	183907	7.28%	0.232%
229	12.481	12.465	12.506	HH	19712	263497	10.42%	0.333%
230	12.515	12.506	12.529	HH	3110	40609	1.61%	0.051%
231	12.550	12.529	12.564	HH	3832	71537	2.83%	0.090%
232	12.581	12.564	12.604	HH	5638	102889	4.07%	0.130%
233	12.623	12.604	12.629	HH	3443	50327	1.99%	0.064%
234	12.632	12.629	12.638	HH	3469	19522	0.77%	0.025%
235	12.659	12.638	12.684	HH	10193	165340	6.54%	0.209%
236	12.693	12.684	12.738	HH	4353	123521	4.89%	0.156%
237	12.765	12.738	12.787	HH	14448	222332	8.80%	0.281%
238	12.800	12.787	12.809	HH	4673	56963	2.25%	0.072%
239	12.823	12.809	12.885	HH	5876	196940	7.79%	0.249%
240	12.914	12.885	12.929	HH	5874	118812	4.70%	0.150%
241	12.938	12.929	12.963	HH	4298	85494	3.38%	0.108%
242	12.977	12.963	12.982	HH	4205	46473	1.84%	0.059%
243	13.017	12.982	13.029	HH	6561	143674	5.68%	0.182%
244	13.039	13.029	13.065	HH	6030	107649	4.26%	0.136%
245	13.087	13.065	13.101	HH	9532	144399	5.71%	0.183%
246	13.105	13.101	13.127	HH	6942	83016	3.28%	0.105%

247	13.153	13.127	13.179	HH	13488	251453	9.95%	0.318%
248	13.198	13.179	13.214	HH	17319	251306	9.94%	0.318%
249	13.227	13.214	13.247	HH	10179	183696	7.27%	0.232%
250	13.259	13.247	13.277	HH	9296	137173	5.43%	0.173%
251	13.319	13.277	13.360	HH	209943	2381561	94.22%	3.010%
252	13.378	13.360	13.397	HH	5941	107550	4.26%	0.136%
253	13.411	13.397	13.424	HH	5433	81528	3.23%	0.103%
254	13.462	13.424	13.480	HH	9647	225636	8.93%	0.285%
255	13.507	13.480	13.553	HH	13082	370941	14.68%	0.469%
256	13.565	13.553	13.587	HH	6288	112251	4.44%	0.142%
257	13.619	13.587	13.649	HH	189639	2162096	85.54%	2.733%
258	13.669	13.649	13.683	HH	22877	292373	11.57%	0.370%
259	13.697	13.683	13.730	HH	21750	342631	13.56%	0.433%
260	13.752	13.730	13.763	HH	6284	119433	4.73%	0.151%
261	13.784	13.763	13.798	HH	11118	174388	6.90%	0.220%
262	13.816	13.798	13.842	HH	13282	243041	9.62%	0.307%
263	13.877	13.842	13.902	HH	14730	320230	12.67%	0.405%
264	13.913	13.902	13.921	HH	6943	78132	3.09%	0.099%
265	13.938	13.921	13.969	HH	8528	207590	8.21%	0.262%
266	14.008	13.969	14.044	HH	10741	348294	13.78%	0.440%
267	14.069	14.044	14.095	HH	17544	352349	13.94%	0.445%
268	14.105	14.095	14.120	HH	7269	105591	4.18%	0.133%
269	14.136	14.120	14.143	HH	6495	87720	3.47%	0.111%
270	14.198	14.143	14.237	HH	33573	786257	31.11%	0.994%
271	14.258	14.237	14.277	HH	9923	201617	7.98%	0.255%
272	14.304	14.277	14.327	HH	22255	400736	15.85%	0.507%
273	14.347	14.327	14.371	HH	21457	366918	14.52%	0.464%
274	14.385	14.371	14.400	HH	11552	177101	7.01%	0.224%
275	14.409	14.400	14.420	HH	10646	127911	5.06%	0.162%
276	14.452	14.420	14.459	HH	13023	271594	10.75%	0.343%
277	14.477	14.459	14.496	HH	21057	329577	13.04%	0.417%
278	14.517	14.496	14.551	HH	20046	414892	16.41%	0.524%
279	14.588	14.551	14.606	HH	12578	325579	12.88%	0.412%
280	14.629	14.606	14.659	HH	10918	312065	12.35%	0.394%
281	14.669	14.659	14.684	HH	9843	145130	5.74%	0.183%
282	14.697	14.684	14.712	HH	9849	157606	6.24%	0.199%
283	14.723	14.712	14.737	HH	9649	140121	5.54%	0.177%
284	14.749	14.737	14.760	HH	8901	119476	4.73%	0.151%
285	14.780	14.760	14.812	HH	9949	290390	11.49%	0.367%
286	14.834	14.812	14.847	HH	9342	192166	7.60%	0.243%
287	14.894	14.847	14.912	HH	14651	480911	19.03%	0.608%
288	14.930	14.912	14.953	HH	19408	363136	14.37%	0.459%
289	14.969	14.953	14.982	HH	12250	198389	7.85%	0.251%
290	14.994	14.982	14.999	HH	11926	116356	4.60%	0.147%
291	15.031	14.999	15.077	HH	14913	587636	23.25%	0.743%
292	15.109	15.077	15.146	HH	21715	647915	25.63%	0.819%
293	15.172	15.146	15.196	HH	32384	658151	26.04%	0.832%
294	15.232	15.196	15.264	HH	23290	692035	27.38%	0.875%
295	15.299	15.264	15.329	HH	17357	563910	22.31%	0.713%
296	15.355	15.329	15.386	HH	17758	527957	20.89%	0.667%
297	15.399	15.386	15.409	HH	12699	172538	6.83%	0.218%
298	15.435	15.409	15.453	HH	18007	393951	15.59%	0.498%
299	15.482	15.453	15.503	HH	104893	1476050	58.40%	1.866%

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300	15.524	15.503	15.551	HH	99967	1368900	54.16%	1.730%
301	15.566	15.551	15.597	HH	16035	414258	16.39%	0.524%
302	15.647	15.597	15.680	HH	35444	1026885	40.63%	1.298%
303	15.717	15.680	15.754	HH	21083	763680	30.21%	0.965%
304	15.779	15.754	15.805	HH	21111	553990	21.92%	0.700%
305	15.827	15.805	15.869	HH	23833	729663	28.87%	0.922%
306	15.885	15.869	15.899	HH	17876	312250	12.35%	0.395%
307	15.923	15.899	15.953	HH	20239	615871	24.37%	0.778%
308	15.962	15.953	15.982	HH	18784	313511	12.40%	0.396%
309	15.997	15.982	16.004	HH	17111	215700	8.53%	0.273%
310	16.023	16.004	16.037	HH	19358	369335	14.61%	0.467%
311	16.067	16.037	16.087	HH	19620	570848	22.58%	0.722%
312	16.108	16.087	16.128	HH	22402	505699	20.01%	0.639%
313	16.151	16.128	16.171	HH	36773	687471	27.20%	0.869%
314	16.188	16.171	16.222	HH	26601	684955	27.10%	0.866%
315	16.239	16.222	16.255	HH	24666	446923	17.68%	0.565%
316	16.260	16.255	16.272	HH	21619	212123	8.39%	0.268%
317	16.301	16.272	16.345	HH	30287	1130167	44.71%	1.428%
318	16.387	16.345	16.407	HH	26261	842881	33.35%	1.065%
319	16.417	16.407	16.442	HH	21377	444076	17.57%	0.561%
320	16.469	16.442	16.485	HH	24050	582093	23.03%	0.736%
321	16.509	16.485	16.545	HH	25757	841266	33.28%	1.063%
322	16.576	16.545	16.610	HH	26266	924880	36.59%	1.169%
323	16.649	16.610	16.664	HH	22772	711911	28.17%	0.900%
324	16.699	16.664	16.719	HH	24231	765180	30.27%	0.967%
325	16.745	16.719	16.799	HH	26706	1222759	48.38%	1.545%
326	16.821	16.799	16.839	HH	31550	673510	26.65%	0.851%
327	16.848	16.839	16.866	HH	27947	450688	17.83%	0.570%
328	16.894	16.866	16.910	HH	27754	722474	28.58%	0.913%
329	16.943	16.910	16.958	HH	32128	853497	33.77%	1.079%
330	16.966	16.958	16.987	HH	30468	504889	19.98%	0.638%
331	17.039	16.987	17.055	HH	133170	2527598	100.00%	3.195%
332	17.066	17.055	17.100	HH	70337	1222591	48.37%	1.545%
333	17.167	17.100	17.188	HH	51876	1809857	71.60%	2.288%
334	17.201	17.188	17.245	HH	34273	1111668	43.98%	1.405%
335	17.259	17.245	17.270	HH	32894	484508	19.17%	0.612%
336	17.289	17.270	17.299	HH	34854	571686	22.62%	0.723%
337	17.318	17.299	17.325	HH	37288	562358	22.25%	0.711%
338	17.360	17.325	17.386	HH	100083	2088333	82.62%	2.640%
339	17.418	17.386	17.452	HH	131526	2495923	98.75%	3.155%
340	17.517	17.493	17.544	HH	65032	1408459	55.72%	1.780%
341	17.561	17.544	17.598	HH	40352	1245465	49.27%	1.574%
342	17.663	17.598	17.692	HH	42345	2227561	88.13%	2.815%
343	17.715	17.692	17.735	HH	39512	985851	39.00%	1.246%
344	17.774	17.735	17.805	HH	47921	1858276	73.52%	2.349%
345	17.815	17.805	17.845	HH	43897	996406	39.42%	1.259%
346	17.877	17.845	17.887	HH	42222	1013935	40.11%	1.282%
347	17.915	17.887	17.958	HH	48301	1927410	76.25%	2.436%
348	17.999	17.958	18.015	HH	46721	1510369	59.76%	1.909%
349	18.027	18.015	18.047	HH	46416	863055	34.15%	1.091%
350	18.073	18.047	18.097	HH	52571	1449245	57.34%	1.832%

Sum of corrected areas: 79118272

FE012325.M Mon Feb 03 02:37:20 2025

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-51.4-013025	SDG No.:	Q1241
Lab Sample ID:	Q1241-17	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	93.3 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052187.D	10	01/31/25 08:50	01/31/25 20:12	PB166415

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	112000		1980	17800	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	0.92		37 - 130	46%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance 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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052187.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 20:12
Operator : YP\AJ
Sample : Q1241-17 10X
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 03 00:14:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_E
ClientSampleId :
JPP-51.4-013025

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.229	91937	0.923 ug/mlm
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052187.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 20:12
Operator : YP\AJ
Sample : Q1241-17 10X
Misc :
ALS Vial : 26 Sample Multiplier: 1

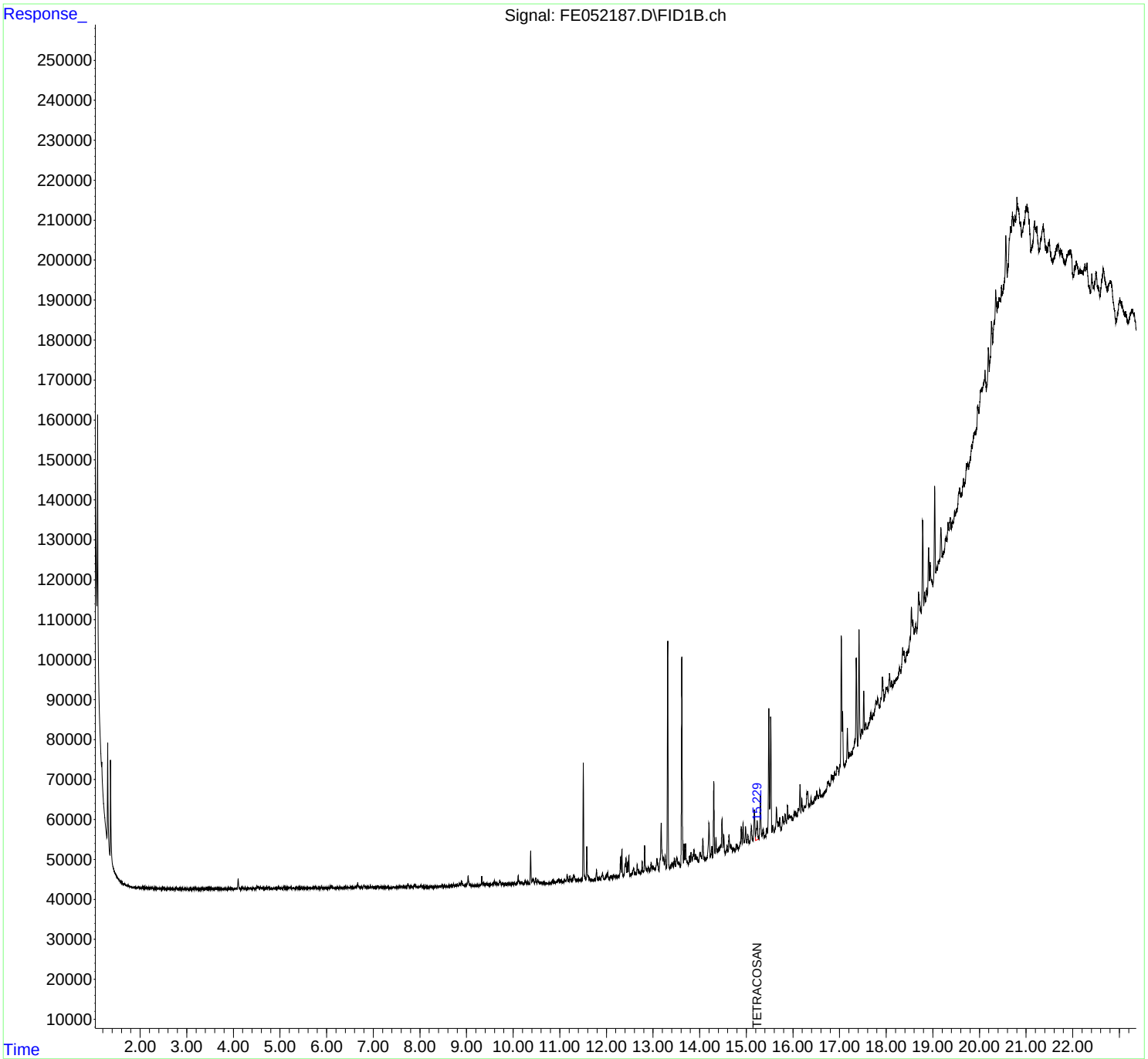
Integration File: autoint1.e
Quant Time: Feb 03 00:14:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

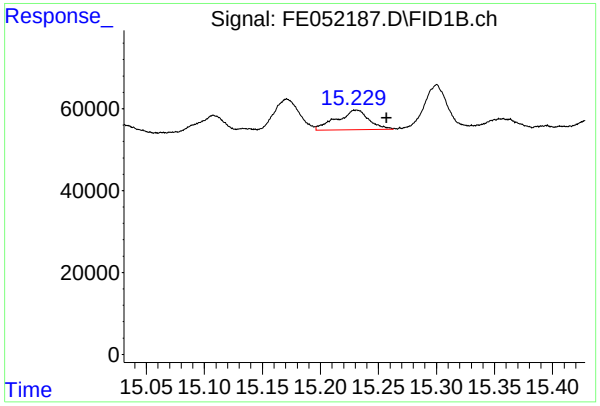
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_E
ClientSampleId :
JPP-51.4-013025

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025





#9 TETRACOSANE-d50 (SURROGATE)

R.T.:	15.229 min
Delta R.T.:	-0.028 mir
Response:	91937
Conc:	0.92 ug/m

Instrument :
FID_E
ClientSampleId :
JPP-51.4-013025

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

rteres

Instrument :
FID_E
ClientSampleId :
JPP-51.4-013025

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052187.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 20:12
Sample : Q1241-17 10X
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.866	4.851	4.873	BH	91	373	0.03%	0.001%
2	4.884	4.873	4.896	PH	105	647	0.06%	0.002%
3	4.919	4.896	4.940	HH	141	1663	0.15%	0.005%
4	4.943	4.940	4.949	PH	79	344	0.03%	0.001%
5	4.968	4.949	4.991	HH	495	5891	0.53%	0.018%
6	4.995	4.991	5.001	HH	184	628	0.06%	0.002%
7	5.020	5.001	5.036	HH	216	2613	0.24%	0.008%
8	5.052	5.036	5.065	HH	227	1893	0.17%	0.006%
9	5.085	5.065	5.104	PH	339	4369	0.39%	0.013%
10	5.131	5.104	5.164	HH	343	5789	0.52%	0.017%
11	5.169	5.164	5.181	HH	223	1290	0.12%	0.004%
12	5.199	5.181	5.205	HH	271	2954	0.27%	0.009%
13	5.217	5.205	5.225	HH	391	3145	0.28%	0.009%
14	5.228	5.225	5.236	HH	267	1010	0.09%	0.003%
15	5.242	5.236	5.259	HH	246	2369	0.21%	0.007%
16	5.279	5.259	5.291	HH	272	2595	0.23%	0.008%
17	5.293	5.291	5.303	HH	260	993	0.09%	0.003%
18	5.308	5.303	5.315	HH	112	776	0.07%	0.002%
19	5.320	5.315	5.326	HH	184	665	0.06%	0.002%
20	5.336	5.326	5.356	HH	341	3932	0.35%	0.012%
21	5.359	5.356	5.376	HH	338	2300	0.21%	0.007%
22	5.382	5.376	5.410	HH	257	2593	0.23%	0.008%
23	5.417	5.410	5.426	HH	266	1716	0.15%	0.005%
24	5.429	5.426	5.455	HH	260	2687	0.24%	0.008%
25	5.458	5.455	5.490	HH	249	3186	0.29%	0.010%
26	5.499	5.490	5.514	HH	247	1759	0.16%	0.005%
27	5.531	5.514	5.535	PH	174	913	0.08%	0.003%
28	5.555	5.535	5.596	PH	174	4138	0.37%	0.012%
29	5.610	5.596	5.628	PH	193	2061	0.19%	0.006%
30	5.637	5.628	5.646	HH	277	1510	0.14%	0.005%
31	5.650	5.646	5.656	PH	156	771	0.07%	0.002%
32	5.659	5.656	5.673	HH	181	1728	0.16%	0.005%
33	5.679	5.673	5.683	HH	196	770	0.07%	0.002%
34	5.686	5.683	5.692	HH	147	588	0.05%	0.002%
35	5.704	5.692	5.721	PH	289	2677	0.24%	0.008%
36	5.722	5.721	5.746	HH	246	1609	0.14%	0.005%

Instrument :
FID_E
ClientSampleId :
JPP-51.4-013025

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

					rteres			
37	5.750	5.746	5.757	HH	254	1337	0.12%	0.004%
38	5.767	5.757	5.796	HH	334	4737		
39	5.799	5.796	5.807	HH	185	803		
40	5.814	5.807	5.820	HH	103	653		
41	5.835	5.820	5.846	HH	113	1391		
42	5.849	5.846	5.852	HH	122	340		
43	5.859	5.852	5.865	HH	138	798	0.07%	0.002%
44	5.872	5.865	5.876	HH	179	813	0.07%	0.002%
45	5.891	5.876	5.910	HH	604	5620	0.51%	0.017%
46	5.915	5.910	5.969	HH	264	4910	0.44%	0.015%
47	5.971	5.969	6.024	HH	253	3701	0.33%	0.011%
48	6.038	6.024	6.061	HH	315	4371	0.39%	0.013%
49	6.080	6.061	6.099	HH	595	7094	0.64%	0.021%
50	6.110	6.099	6.162	HH	647	11444	1.03%	0.034%
51	6.167	6.162	6.173	HH	174	954	0.09%	0.003%
52	6.184	6.173	6.190	HH	186	1543	0.14%	0.005%
53	6.195	6.190	6.210	HH	284	1980	0.18%	0.006%
54	6.223	6.210	6.232	HH	239	1953	0.18%	0.006%
55	6.239	6.232	6.252	HH	238	1864	0.17%	0.006%
56	6.264	6.252	6.280	HH	349	3479	0.31%	0.010%
57	6.287	6.280	6.340	HH	240	6877	0.62%	0.021%
58	6.372	6.340	6.378	HH	294	5306	0.48%	0.016%
59	6.390	6.378	6.428	HH	333	8340	0.75%	0.025%
60	6.442	6.428	6.465	HH	322	5247	0.47%	0.016%
61	6.470	6.465	6.488	HH	259	2577	0.23%	0.008%
62	6.502	6.488	6.513	HH	395	4373	0.39%	0.013%
63	6.520	6.513	6.543	HH	353	5038	0.45%	0.015%
64	6.562	6.543	6.587	HH	487	7814	0.70%	0.023%
65	6.611	6.587	6.617	HH	334	4795	0.43%	0.014%
66	6.667	6.617	6.727	HH	1551	31244	2.81%	0.094%
67	6.734	6.727	6.739	HH	302	1859	0.17%	0.006%
68	6.744	6.739	6.776	HH	348	5692	0.51%	0.017%
69	6.801	6.776	6.849	HH	1015	19208	1.73%	0.058%
70	6.880	6.849	6.899	HH	465	9821	0.88%	0.029%
71	6.903	6.899	6.910	HH	299	1996	0.18%	0.006%
72	6.914	6.910	6.917	HH	345	1261	0.11%	0.004%
73	6.937	6.917	6.958	HH	630	9955	0.90%	0.030%
74	6.965	6.958	6.977	HH	373	4113	0.37%	0.012%
75	6.986	6.977	7.007	HH	466	6582	0.59%	0.020%
76	7.018	7.007	7.033	HH	421	5238	0.47%	0.016%
77	7.066	7.033	7.073	HH	367	7475	0.67%	0.022%
78	7.092	7.073	7.137	HH	741	15797	1.42%	0.047%
79	7.142	7.137	7.148	HH	380	2189	0.20%	0.007%
80	7.161	7.148	7.187	HH	443	8151	0.73%	0.024%
81	7.189	7.187	7.198	HH	325	1980	0.18%	0.006%
82	7.220	7.198	7.231	HH	383	6121	0.55%	0.018%
83	7.241	7.231	7.257	HH	443	5760	0.52%	0.017%
84	7.262	7.257	7.283	HH	408	4555	0.41%	0.014%
85	7.289	7.283	7.292	HH	362	1674	0.15%	0.005%
86	7.296	7.292	7.340	HH	383	7984	0.72%	0.024%
87	7.348	7.340	7.361	HH	246	2782	0.25%	0.008%
88	7.385	7.361	7.402	HH	388	6918	0.62%	0.021%
89	7.435	7.402	7.443	HH	409	8232	0.74%	0.025%

Instrument :
FID_E
ClientSampleId :
JPP-51.4-013025

Manual IntegrationsAPPROVED

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rteres

90	7.450	7.443	7.473	HH	330	5185	0.47%	0.016%
91	7.479	7.473	7.491	HH	344	3429		
92	7.494	7.491	7.500	HH	352	1762		
93	7.517	7.500	7.525	HH	434	5300		
94	7.534	7.525	7.541	HH	390	3369		
95	7.560	7.541	7.582	HH	557	10894		
96	7.586	7.582	7.589	HH	501	1877	0.17%	0.006%
97	7.612	7.589	7.662	HH	528	20822	1.88%	0.062%
98	7.668	7.662	7.677	HH	468	3566	0.32%	0.011%
99	7.681	7.677	7.701	HH	476	6218	0.56%	0.019%
100	7.703	7.701	7.715	HH	446	3285	0.30%	0.010%
101	7.719	7.715	7.723	HH	420	1915	0.17%	0.006%
102	7.744	7.723	7.776	HH	1322	22544	2.03%	0.068%
103	7.780	7.776	7.797	HH	547	6242	0.56%	0.019%
104	7.803	7.797	7.830	HH	540	9504	0.86%	0.029%
105	7.839	7.830	7.860	HH	457	7542	0.68%	0.023%
106	7.882	7.860	7.918	HH	1000	22821	2.06%	0.068%
107	7.925	7.918	7.941	HH	521	6319	0.57%	0.019%
108	7.945	7.941	7.949	HH	446	2199	0.20%	0.007%
109	7.957	7.949	7.962	HH	500	3422	0.31%	0.010%
110	7.966	7.962	7.973	HH	485	3088	0.28%	0.009%
111	7.978	7.973	7.992	HH	525	5238	0.47%	0.016%
112	7.997	7.992	8.003	HH	637	3561	0.32%	0.011%
113	8.025	8.003	8.057	HH	1038	21356	1.92%	0.064%
114	8.060	8.057	8.077	HH	558	5563	0.50%	0.017%
115	8.079	8.077	8.090	HH	506	3588	0.32%	0.011%
116	8.099	8.090	8.104	HH	486	3734	0.34%	0.011%
117	8.117	8.104	8.125	HH	495	5353	0.48%	0.016%
118	8.134	8.125	8.158	HH	515	8246	0.74%	0.025%
119	8.165	8.158	8.174	HH	442	3971	0.36%	0.012%
120	8.187	8.174	8.193	HH	470	4750	0.43%	0.014%
121	8.196	8.193	8.235	HH	463	10429	0.94%	0.031%
122	8.255	8.235	8.280	HH	515	11483	1.03%	0.034%
123	8.292	8.280	8.303	HH	422	5310	0.48%	0.016%
124	8.307	8.303	8.312	HH	395	1907	0.17%	0.006%
125	8.325	8.312	8.330	HH	461	4656	0.42%	0.014%
126	8.338	8.330	8.343	HH	479	3587	0.32%	0.011%
127	8.349	8.343	8.355	HH	466	3054	0.28%	0.009%
128	8.357	8.355	8.412	HH	558	16511	1.49%	0.050%
129	8.422	8.412	8.428	HH	663	5723	0.52%	0.017%
130	8.432	8.428	8.442	HH	623	4880	0.44%	0.015%
131	8.471	8.442	8.532	HH	913	34327	3.09%	0.103%
132	8.550	8.532	8.585	HH	621	17411	1.57%	0.052%
133	8.595	8.585	8.609	HH	630	8531	0.77%	0.026%
134	8.627	8.609	8.655	HH	814	18072	1.63%	0.054%
135	8.674	8.655	8.695	HH	775	15941	1.44%	0.048%
136	8.723	8.695	8.768	HH	1060	35839	3.23%	0.108%
137	8.792	8.768	8.825	HH	992	27917	2.52%	0.084%
138	8.845	8.825	8.861	HH	1459	22725	2.05%	0.068%
139	8.896	8.861	8.960	HH	1914	65756	5.92%	0.197%
140	8.967	8.960	8.985	HH	758	11479	1.03%	0.034%
141	9.035	8.985	9.105	HH	3166	93752	8.45%	0.281%

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JPP-51.4-013025

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rteres

142	9.122	9.105	9.149	HH	869	20001	1.80%	0.060%
143	9.160	9.149	9.175	HH	778	10691		
144	9.200	9.175	9.223	HH	818	21070		
145	9.251	9.223	9.267	HH	855	19827		
146	9.281	9.267	9.288	HH	878	10441		
147	9.328	9.288	9.348	HH	3150	54225		
148	9.365	9.348	9.397	HH	1337	33424	3.01%	0.100%
149	9.431	9.397	9.452	HH	1409	36010	3.24%	0.108%
150	9.479	9.452	9.502	HH	1128	29420	2.65%	0.088%
151	9.563	9.502	9.580	HH	1308	50893	4.59%	0.153%
152	9.598	9.580	9.617	HH	2090	32852	2.96%	0.099%
153	9.631	9.617	9.663	HH	1458	33791	3.04%	0.101%
154	9.680	9.663	9.688	HH	1138	16048	1.45%	0.048%
155	9.713	9.688	9.752	HH	2103	55936	5.04%	0.168%
156	9.772	9.752	9.848	HH	1468	61949	5.58%	0.186%
157	9.886	9.848	9.903	HH	1457	37045	3.34%	0.111%
158	9.918	9.903	9.958	HH	1340	36258	3.27%	0.109%
159	9.975	9.958	9.993	HH	1229	23188	2.09%	0.070%
160	10.025	9.993	10.048	HH	1594	41627	3.75%	0.125%
161	10.074	10.048	10.083	HH	1303	25628	2.31%	0.077%
162	10.108	10.083	10.147	HH	3270	72640	6.54%	0.218%
163	10.186	10.147	10.214	HH	1609	57421	5.17%	0.172%
164	10.225	10.214	10.237	HH	1384	17171	1.55%	0.052%
165	10.259	10.237	10.298	HH	2042	57141	5.15%	0.171%
166	10.318	10.298	10.352	HH	1689	44808	4.04%	0.134%
167	10.376	10.352	10.407	HH	9414	127312	11.47%	0.382%
168	10.426	10.407	10.456	HH	2633	59734	5.38%	0.179%
169	10.484	10.456	10.505	HH	2711	57765	5.20%	0.173%
170	10.526	10.505	10.572	HH	2375	69370	6.25%	0.208%
171	10.592	10.572	10.642	HH	1502	58375	5.26%	0.175%
172	10.657	10.642	10.675	HH	1414	27179	2.45%	0.082%
173	10.688	10.675	10.717	HH	1397	33059	2.98%	0.099%
174	10.728	10.717	10.743	HH	1303	19839	1.79%	0.060%
175	10.773	10.743	10.808	HH	1431	51915	4.68%	0.156%
176	10.846	10.808	10.862	HH	2217	55106	4.96%	0.165%
177	10.874	10.862	10.889	HH	1862	28583	2.58%	0.086%
178	10.918	10.889	10.937	HH	1697	45658	4.11%	0.137%
179	10.953	10.937	10.963	HH	2201	30915	2.79%	0.093%
180	10.983	10.963	11.005	HH	2269	49691	4.48%	0.149%
181	11.025	11.005	11.055	HH	2239	54709	4.93%	0.164%
182	11.101	11.055	11.118	HH	2316	69927	6.30%	0.210%
183	11.156	11.118	11.195	HH	3555	110432	9.95%	0.331%
184	11.219	11.195	11.248	HH	3264	75286	6.78%	0.226%
185	11.267	11.248	11.279	HH	2626	42981	3.87%	0.129%
186	11.298	11.279	11.352	HH	3404	115452	10.40%	0.346%
187	11.397	11.352	11.414	HH	2485	79283	7.14%	0.238%
188	11.438	11.414	11.460	HH	2306	57202	5.15%	0.172%
189	11.506	11.460	11.555	HH	31267	432252	38.94%	1.297%
190	11.581	11.555	11.657	HH	10524	236969	21.35%	0.711%
191	11.670	11.657	11.703	HH	2275	60752	5.47%	0.182%
192	11.710	11.703	11.728	HH	2196	31616	2.85%	0.095%
193	11.749	11.728	11.767	HH	2636	53832	4.85%	0.161%
194	11.786	11.767	11.829	HH	4660	112309	10.12%	0.337%

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JPP-51.4-013025

rteres

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195	11.850	11.829	11.874	HH	2651	66644	6.00%	0.200%
196	11.916	11.874	11.948	HH	4006	132833	11	
197	12.029	11.948	12.065	HH	4069	208201	18	
198	12.093	12.065	12.124	HH	3298	99348	8	
199	12.152	12.124	12.168	HH	3412	81495	7	
200	12.184	12.168	12.214	HH	3182	82462	7	
201	12.229	12.214	12.241	HH	2999	47132	4.25%	0.141%
202	12.256	12.241	12.270	HH	3093	51956	4.68%	0.156%
203	12.302	12.270	12.316	HH	7935	137750	12.41%	0.413%
204	12.333	12.316	12.362	HH	9789	158121	14.25%	0.474%
205	12.372	12.362	12.379	HH	3404	34706	3.13%	0.104%
206	12.399	12.379	12.406	HH	6023	77103	6.95%	0.231%
207	12.420	12.406	12.436	HH	7642	108475	9.77%	0.325%
208	12.451	12.436	12.464	HH	6567	90810	8.18%	0.272%
209	12.481	12.464	12.505	HH	8267	134947	12.16%	0.405%
210	12.518	12.505	12.532	HH	3675	55709	5.02%	0.167%
211	12.580	12.532	12.607	HH	5143	183910	16.57%	0.552%
212	12.617	12.607	12.639	HH	4050	72585	6.54%	0.218%
213	12.659	12.639	12.735	HH	6112	253776	22.86%	0.761%
214	12.765	12.735	12.787	HH	6779	152333	13.72%	0.457%
215	12.820	12.787	12.878	HH	10773	316239	28.49%	0.949%
216	12.895	12.878	12.930	HH	5239	149937	13.51%	0.450%
217	12.959	12.930	12.978	HH	6567	155424	14.00%	0.466%
218	12.996	12.978	13.028	HH	5696	155394	14.00%	0.466%
219	13.040	13.028	13.048	HH	5151	60048	5.41%	0.180%
220	13.084	13.048	13.128	HH	7346	281333	25.35%	0.844%
221	13.176	13.128	13.210	HH	16368	443582	39.96%	1.331%
222	13.221	13.210	13.243	HH	7770	139213	12.54%	0.418%
223	13.259	13.243	13.288	HH	8334	176389	15.89%	0.529%
224	13.316	13.288	13.360	HH	62173	839679	75.65%	2.519%
225	13.377	13.360	13.389	HH	5659	95521	8.61%	0.287%
226	13.408	13.389	13.435	HH	6438	161924	14.59%	0.486%
227	13.458	13.435	13.485	HH	7489	193176	17.40%	0.580%
228	13.506	13.485	13.531	HH	7744	190255	17.14%	0.571%
229	13.539	13.531	13.552	HH	6536	79019	7.12%	0.237%
230	13.567	13.552	13.588	HH	6255	131445	11.84%	0.394%
231	13.616	13.588	13.652	HH	57869	818334	73.73%	2.455%
232	13.668	13.652	13.682	HH	11287	163207	14.70%	0.490%
233	13.697	13.682	13.762	HH	11200	359082	32.35%	1.077%
234	13.782	13.762	13.796	HH	8152	148447	13.37%	0.445%
235	13.815	13.796	13.838	HH	9088	198638	17.90%	0.596%
236	13.876	13.838	13.895	HH	9806	284601	25.64%	0.854%
237	13.912	13.895	13.927	HH	8540	150415	13.55%	0.451%
238	13.937	13.927	13.967	HH	7788	177980	16.04%	0.534%
239	14.007	13.967	14.040	HH	9018	346344	31.20%	1.039%
240	14.068	14.040	14.100	HH	12421	333937	30.09%	1.002%
241	14.125	14.100	14.145	HH	7607	201152	18.12%	0.603%
242	14.258	14.233	14.277	HH	10617	237933	21.44%	0.714%
243	14.302	14.277	14.328	HH	26709	458891	41.34%	1.377%
244	14.347	14.328	14.368	HH	12770	255175	22.99%	0.766%
245	14.383	14.368	14.398	HH	9857	172097	15.50%	0.516%
246	14.407	14.398	14.420	HH	10079	124909	11.25%	0.375%

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247	14.479	14.420	14.499	HH	17355	567614	51.14%	1.703%
248	14.514	14.499	14.552	HH	13263	338055	30	
249	14.586	14.552	14.605	HH	10934	310916	28	
250	14.631	14.605	14.657	HH	13491	351910	31	
251	14.670	14.657	14.710	HH	10773	325446	29	
252	14.722	14.710	14.738	HH	10165	168404	15	
253	14.745	14.738	14.763	HH	9821	144893	13.05%	0.435%
254	14.788	14.763	14.829	HH	11206	407416	36.71%	1.222%
255	14.891	14.829	14.911	HH	15398	582446	52.48%	1.747%
256	14.930	14.911	14.957	HH	16447	370350	33.37%	1.111%
257	14.983	14.957	15.012	HH	15485	427573	38.52%	1.283%
258	15.030	15.012	15.060	HH	13382	356134	32.09%	1.068%
259	15.108	15.060	15.145	HH	15684	665361	59.95%	1.996%
260	15.171	15.145	15.197	HH	19700	488160	43.98%	1.464%
261	15.231	15.197	15.267	HH	16990	604998	54.51%	1.815%
262	15.300	15.267	15.332	HH	23233	635868	57.29%	1.908%
263	15.357	15.332	15.383	HH	14842	432401	38.96%	1.297%
264	15.394	15.383	15.402	HH	13156	144311	13.00%	0.433%
265	15.435	15.402	15.452	HH	14830	418047	37.66%	1.254%
266	15.480	15.452	15.500	HH	45111	769498	69.33%	2.308%
267	15.522	15.500	15.549	HH	42932	787171	70.92%	2.361%
268	15.566	15.549	15.602	HH	15700	466538	42.03%	1.400%
269	15.644	15.602	15.695	HH	20334	932157	83.98%	2.796%
270	15.715	15.695	15.750	HH	17651	530314	47.78%	1.591%
271	15.779	15.750	15.807	HH	18095	565818	50.98%	1.697%
272	15.829	15.807	15.863	HH	18636	589226	53.09%	1.768%
273	15.882	15.863	15.903	HH	20844	442558	39.87%	1.328%
274	15.921	15.903	15.949	HH	18383	494261	44.53%	1.483%
275	15.962	15.949	15.983	HH	18241	371722	33.49%	1.115%
276	16.022	15.983	16.033	HH	19090	532126	47.94%	1.596%
277	16.048	16.033	16.088	HH	19381	623116	56.14%	1.869%
278	16.111	16.088	16.118	HH	20031	345418	31.12%	1.036%
279	16.150	16.118	16.170	HH	26039	671069	60.46%	2.013%
280	16.188	16.170	16.223	HH	22525	663625	59.79%	1.991%
281	16.239	16.223	16.257	HH	20701	405230	36.51%	1.216%
282	16.313	16.257	16.340	HH	24253	1109944	100.00%	3.330%
283	16.386	16.340	16.412	HH	22870	918934	82.79%	2.757%

Sum of corrected areas: 33333675

FE012325.M Mon Feb 03 02:40:59 2025

CALIBRATION SUMMARY

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

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: RUTW01

ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Lab Code: CHEM Case No.: Q1241 SAS No.: Q1241 SDG No.: Q1241

Calibration Sequence : FE012325		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	100840417	100840	FE052027.D
500	49711032	99422	FE052028.D
200	20907011	104535	FE052029.D
100	11272495	112725	FE052030.D
50	5669298	113386	FE052031.D
AVG RF : 106182	**% RSD : 6.169**		**AVG RT : 15.2554**

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052027.D
Signal(s) : FID1B.ch
Acq On : 23 Jan 2025 22:06
Operator : YP\AJ
Sample : 100 TRPH STD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 24 03:01:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	15.260	9326838	100.174 ug/ml
	Target Compounds			
1)	N-OCTANE	2.414	8352750	103.369 ug/ml
2)	N-DECANE	4.910	8964173	103.553 ug/ml
3)	N-DODECANE	7.039	9720116	103.116 ug/ml
4)	N-TETRADECANE	8.845	9800969	102.624 ug/ml
5)	N-HEXADECANE	10.439	10191868	102.144 ug/ml
6)	N-OCTADECANE	11.873	10670149	101.681 ug/ml
7)	N-EICOSANE	13.174	10511987	101.149 ug/ml
8)	N-DOCOSANE	14.367	10414135	100.677 ug/ml
10)	N-TETRACOSANE	15.465	10358861	100.274 ug/ml
11)	N-HEXACOSANE	16.482	10187153	100.078 ug/ml
12)	N-OCTACOSANE	17.429	10021006	99.509 ug/ml
13)	N-TRIACONTANE	18.313	9878203	99.283 ug/ml
14)	N-DOTRIACONTANE	19.143	9582276	99.145 ug/ml
15)	N-TETRATRIACONTANE	19.925	8712926	100.310 ug/ml
16)	N-HEXATRIACONTANE	20.662	7584514	101.793 ug/ml
17)	N-OCTATRIACONTANE	21.449	7106830	103.214 ug/ml
18)	N-TETRACONTANE	22.450	7068311	105.034 ug/ml

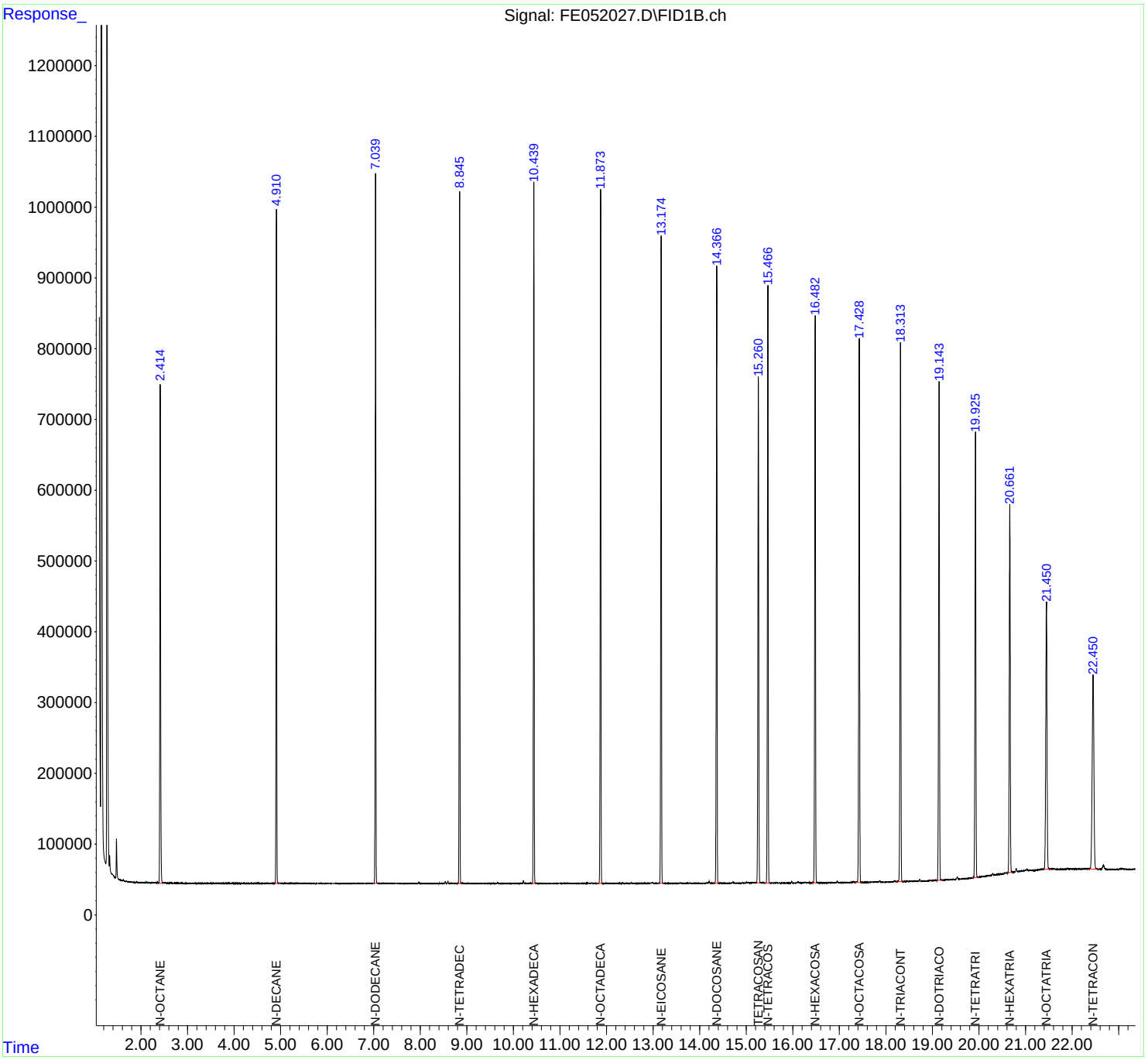
(f)=RT Delta > 1/2 Window (m)=manual int.

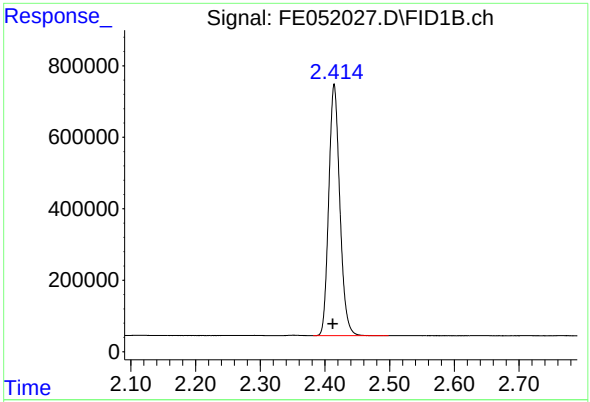
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052027.D
Signal(s) : FID1B.ch
Acq On : 23 Jan 2025 22:06
Operator : YP\AJ
Sample : 100 TRPH STD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 24 03:01:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

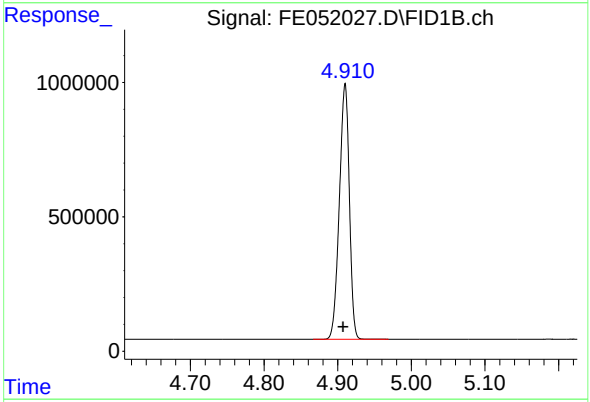




#1 N-OCTANE

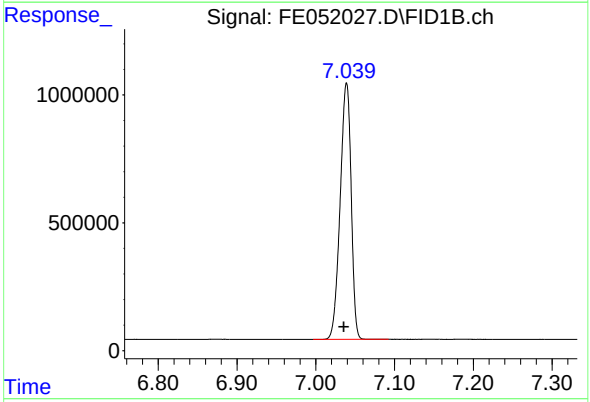
R.T.: 2.414 min
Delta R.T.: 0.002 min
Response: 8352750
Conc: 103.37 ug/ml

Instrument :
FID_E
ClientSampleId :
100 TRPH STD



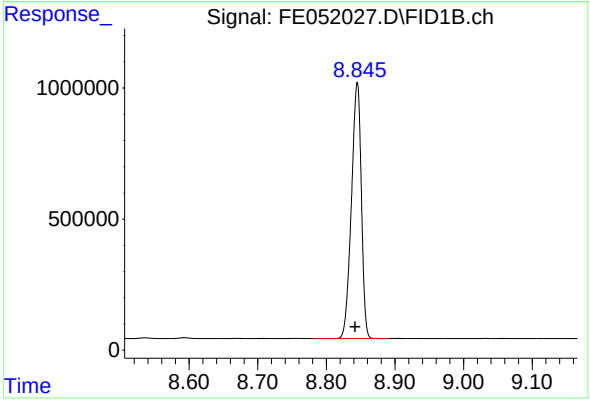
#2 N-DECANE

R.T.: 4.910 min
Delta R.T.: 0.003 min
Response: 8964173
Conc: 103.55 ug/ml



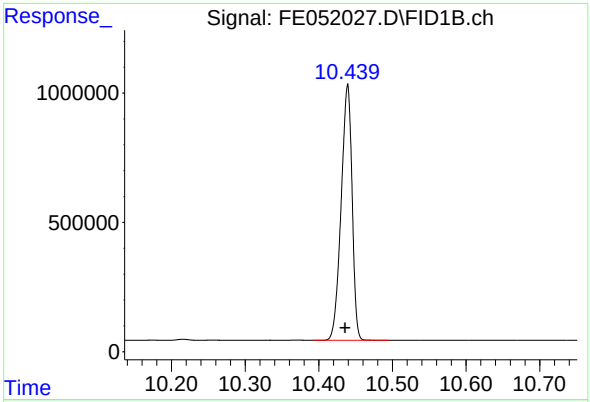
#3 N-DODECANE

R.T.: 7.039 min
Delta R.T.: 0.003 min
Response: 9720116
Conc: 103.12 ug/ml



#4 N-TETRADECANE

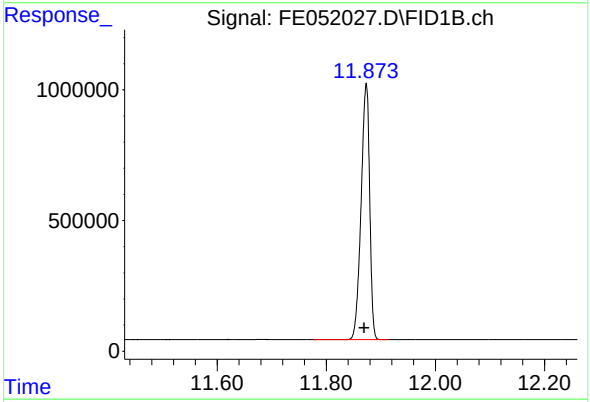
R.T.: 8.845 min
Delta R.T.: 0.003 min
Response: 9800969
Conc: 102.62 ug/ml



#5 N-HEXADECANE

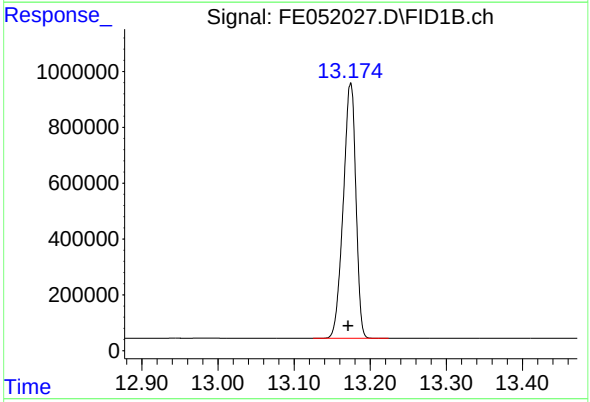
R.T.: 10.439 min
Delta R.T.: 0.004 min
Response: 10191868
Conc: 102.14 ug/ml

Instrument :
FID_E
ClientSampleId :
100 TRPH STD



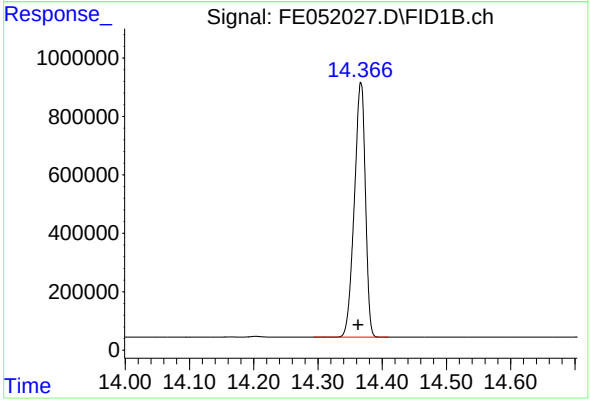
#6 N-OCTADECANE

R.T.: 11.873 min
Delta R.T.: 0.004 min
Response: 10670149
Conc: 101.68 ug/ml



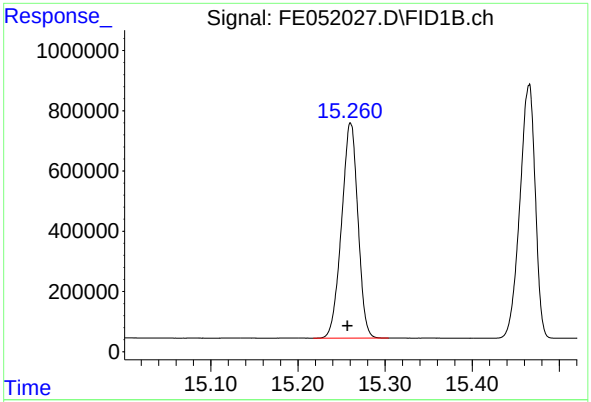
#7 N-EICOSANE

R.T.: 13.174 min
Delta R.T.: 0.003 min
Response: 10511987
Conc: 101.15 ug/ml



#8 N-DOCOSANE

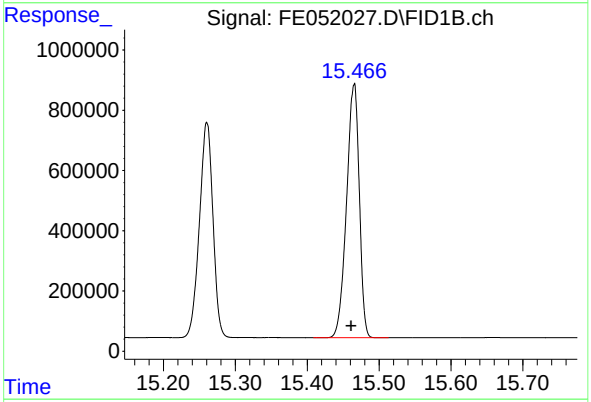
R.T.: 14.367 min
Delta R.T.: 0.004 min
Response: 10414135
Conc: 100.68 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

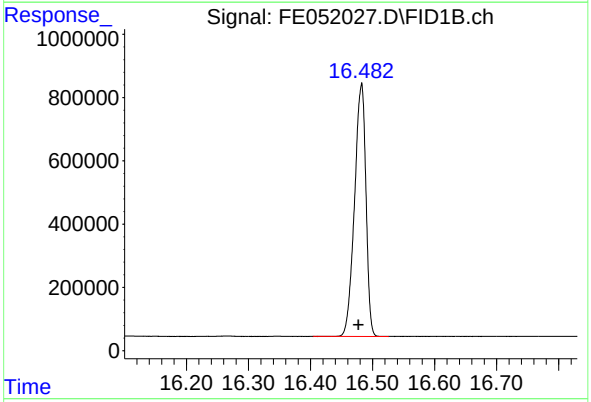
R.T.: 15.260 min
Delta R.T.: 0.003 min
Response: 9326838
Conc: 100.17 ug/ml

Instrument :
FID_E
ClientSampleId :
100 TRPH STD



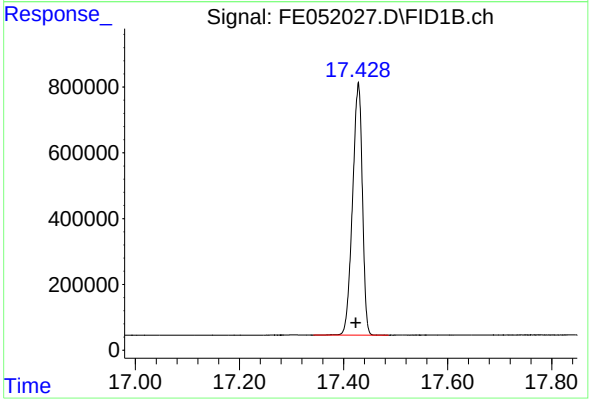
#10 N-TETRACOSANE

R.T.: 15.465 min
Delta R.T.: 0.004 min
Response: 10358861
Conc: 100.27 ug/ml



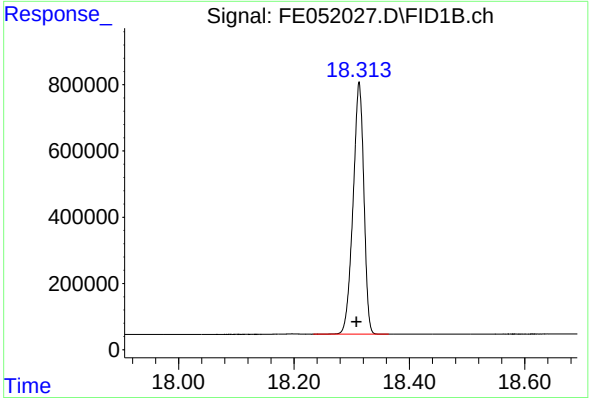
#11 N-HEXACOSANE

R.T.: 16.482 min
Delta R.T.: 0.005 min
Response: 10187153
Conc: 100.08 ug/ml



#12 N-OCTACOSANE

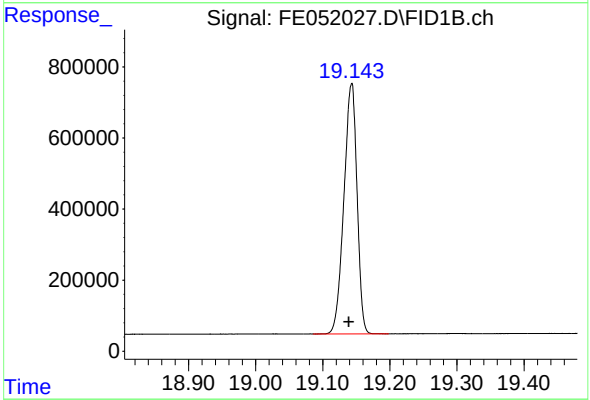
R.T.: 17.429 min
Delta R.T.: 0.005 min
Response: 10021006
Conc: 99.51 ug/ml



#13 N-TRIACONTANE

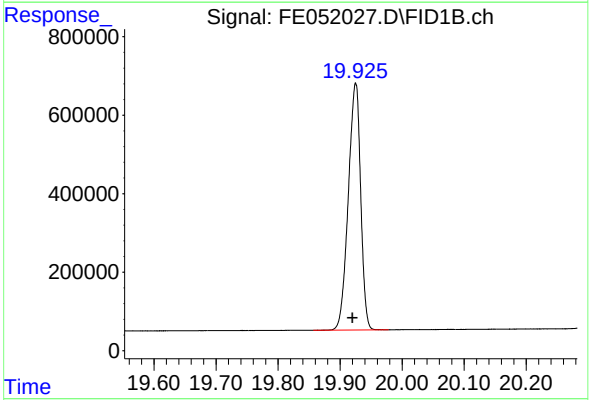
R.T.: 18.313 min
Delta R.T.: 0.005 min
Response: 9878203
Conc: 99.28 ug/ml

Instrument :
FID_E
ClientSampleId :
100 TRPH STD



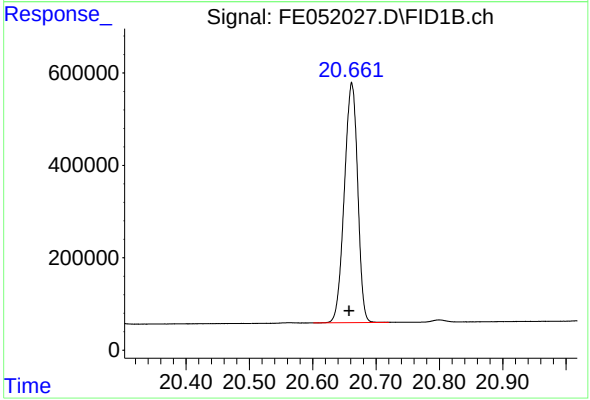
#14 N-DOTRIACONTANE

R.T.: 19.143 min
Delta R.T.: 0.004 min
Response: 9582276
Conc: 99.15 ug/ml



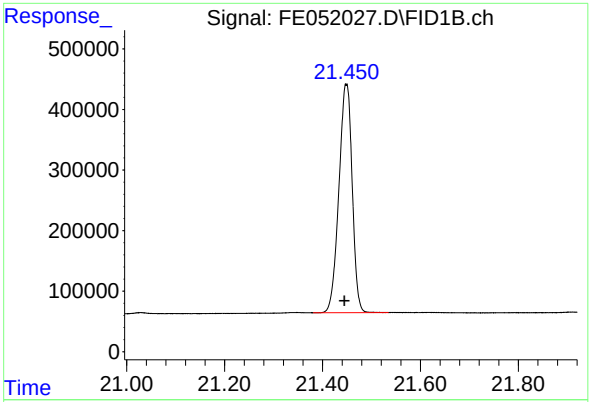
#15 N-TETRATRIACONTANE

R.T.: 19.925 min
Delta R.T.: 0.005 min
Response: 8712926
Conc: 100.31 ug/ml



#16 N-HEXATRIACONTANE

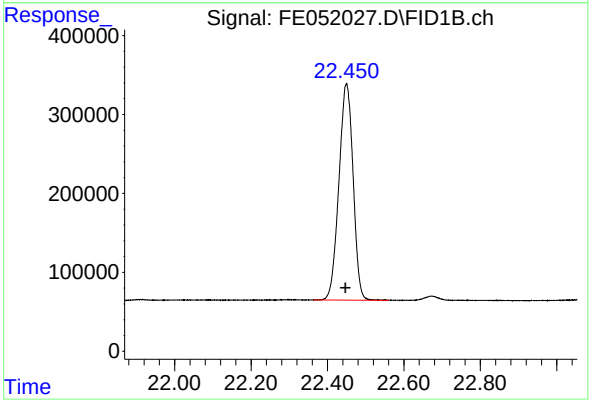
R.T.: 20.662 min
Delta R.T.: 0.004 min
Response: 7584514
Conc: 101.79 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.449 min
Delta R.T.: 0.004 min
Response: 7106830
Conc: 103.21 ug/ml

Instrument :
FID_E
ClientSampleId :
100 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.450 min
Delta R.T.: 0.002 min
Response: 7068311
Conc: 105.03 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052027.D
Signal(s) : FID1B.ch
Acq On : 23 Jan 2025 22:06
Sample : 100 TRPH STD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.414	2.382	2.498	PB	704049	8352750	78.28%	4.959%
2	4.910	4.867	4.969	BB	951340	8964173	84.01%	5.321%
3	7.039	6.997	7.092	BB	1002810	9720116	91.10%	5.770%
4	8.845	8.781	8.891	BV	977530	9800969	91.85%	5.818%
5	10.439	10.392	10.495	BB	989021	10191868	95.52%	6.050%
6	11.873	11.776	11.914	BB	979790	10670149	100.00%	6.334%
7	13.174	13.125	13.224	BB	912737	10511987	98.52%	6.240%
8	14.367	14.292	14.410	BB	871499	10414135	97.60%	6.182%
9	15.260	15.217	15.304	PV	713126	9326838	87.41%	5.537%
10	15.465	15.408	15.513	BB	842402	10358861	97.08%	6.149%
11	16.482	16.404	16.526	BB	799959	10187153	95.47%	6.047%
12	17.429	17.342	17.487	BB	765387	10021006	93.92%	5.949%
13	18.313	18.233	18.364	BB	762184	9878203	92.58%	5.864%
14	19.143	19.086	19.198	BB	704937	9582276	89.80%	5.688%
15	19.925	19.857	19.978	BV	629323	8712926	81.66%	5.172%
16	20.662	20.601	20.720	BB	519502	7584514	71.08%	4.502%
17	21.449	21.381	21.535	BB	375187	7106830	66.60%	4.219%
18	22.450	22.362	22.560	BB	274238	7068311	66.24%	4.196%

Sum of corrected areas: 168453064

FE012325.M Fri Jan 24 03:17:50 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052028.D
Signal(s) : FID1B.ch
Acq On : 23 Jan 2025 23:06
Operator : YP\AJ
Sample : 50 TRPH STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 24 03:01:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	15.257	4655317	50.000 ug/ml
	Target Compounds			
1)	N-OCTANE	2.412	4040248	50.000 ug/ml
2)	N-DECANE	4.907	4328284	50.000 ug/ml
3)	N-DODECANE	7.036	4713212	50.000 ug/ml
4)	N-TETRADECANE	8.842	4775185	50.000 ug/ml
5)	N-HEXADECANE	10.436	4988963	50.000 ug/ml
6)	N-OCTADECANE	11.869	5246868	50.000 ug/ml
7)	N-EICOSANE	13.171	5196311	50.000 ug/ml
8)	N-DOCOSANE	14.362	5172075	50.000 ug/ml
10)	N-TETRACOSANE	15.461	5165286	50.000 ug/ml
11)	N-HEXACOSANE	16.477	5089619	50.000 ug/ml
12)	N-OCTACOSANE	17.424	5035229	50.000 ug/ml
13)	N-TRIACONTANE	18.308	4974786	50.000 ug/ml
14)	N-DOTRIACONTANE	19.139	4832453	50.000 ug/ml
15)	N-TETRATRIACONTANE	19.920	4342985	50.000 ug/ml
16)	N-HEXATRIACONTANE	20.657	3725450	50.000 ug/ml
17)	N-OCTATRIACONTANE	21.445	3442776	50.000 ug/ml
18)	N-TETRACONTANE	22.447	3364772	50.000 ug/ml

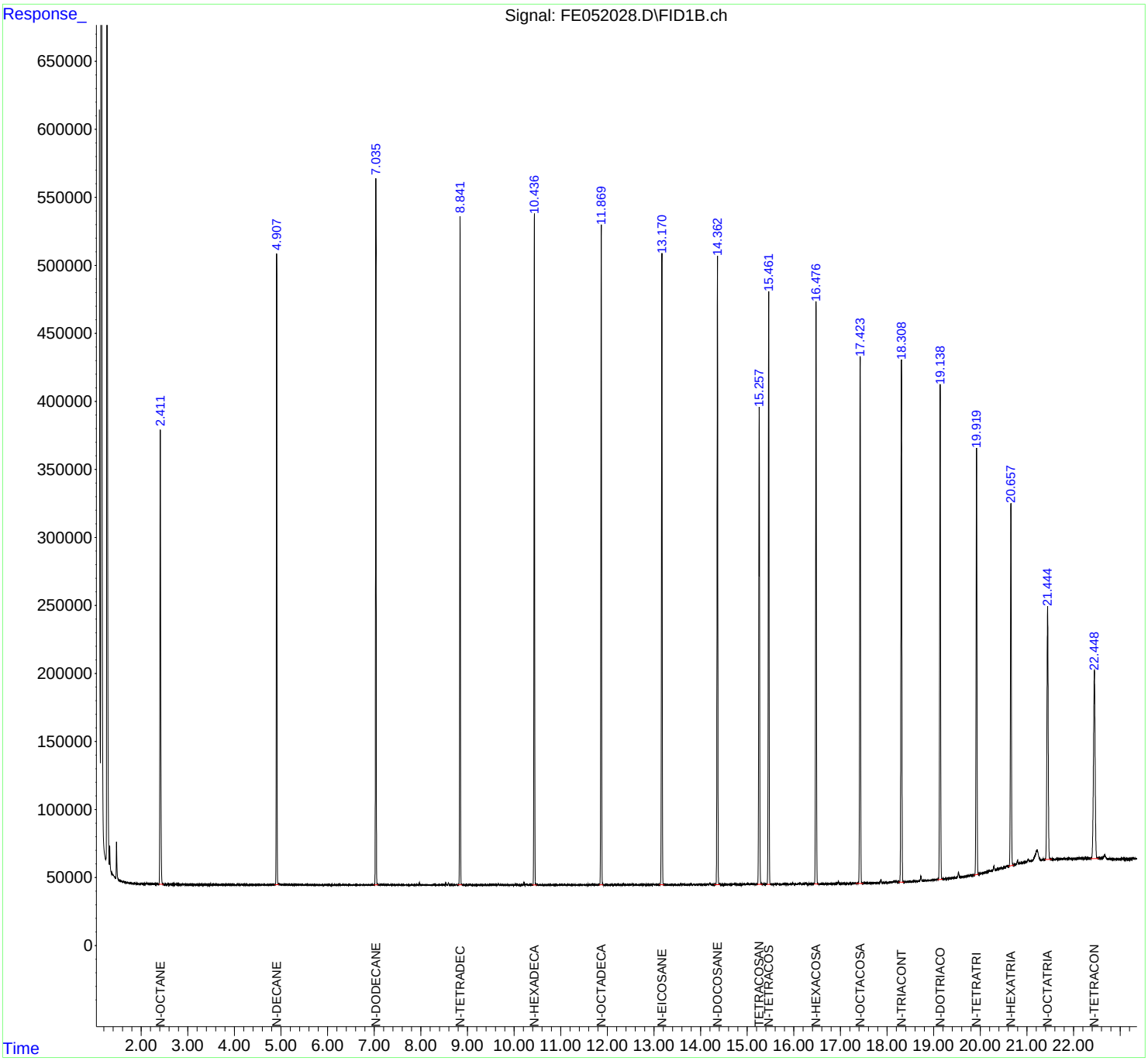
(f)=RT Delta > 1/2 Window (m)=manual int.

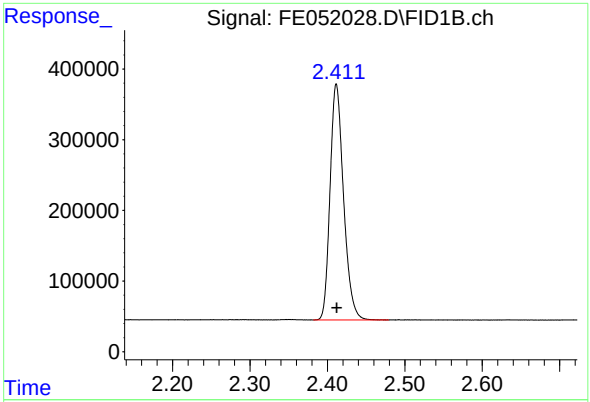
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052028.D
Signal(s) : FID1B.ch
Acq On : 23 Jan 2025 23:06
Operator : YP\AJ
Sample : 50 TRPH STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 24 03:01:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

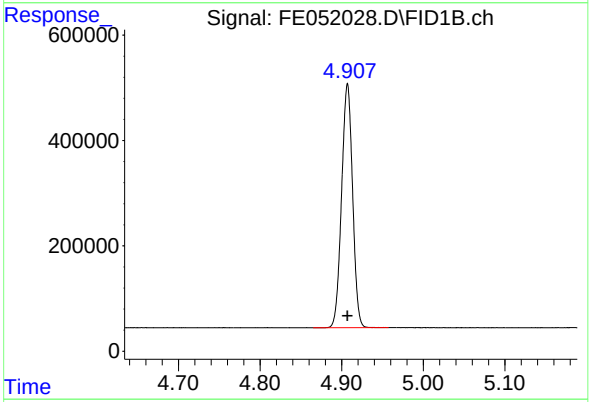




#1 N-OCTANE

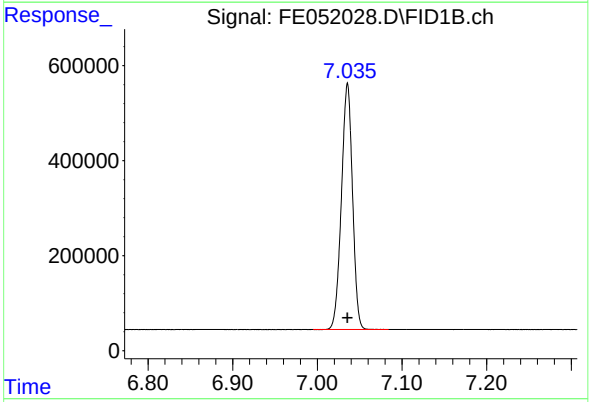
R.T.: 2.412 min
Delta R.T.: 0.000 min
Response: 4040248
Conc: 50.00 ug/ml

Instrument :
FID_E
ClientSampleId :
50 TRPH STD



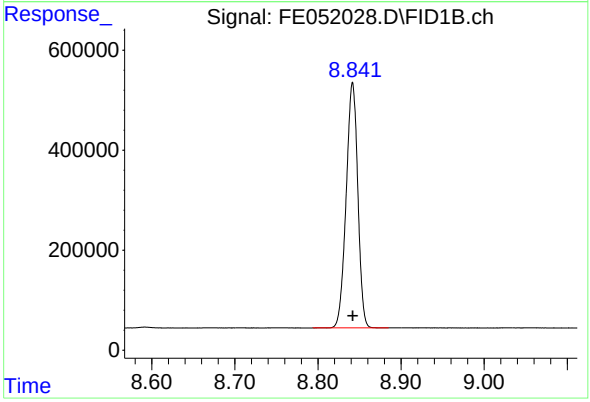
#2 N-DECANE

R.T.: 4.907 min
Delta R.T.: 0.000 min
Response: 4328284
Conc: 50.00 ug/ml



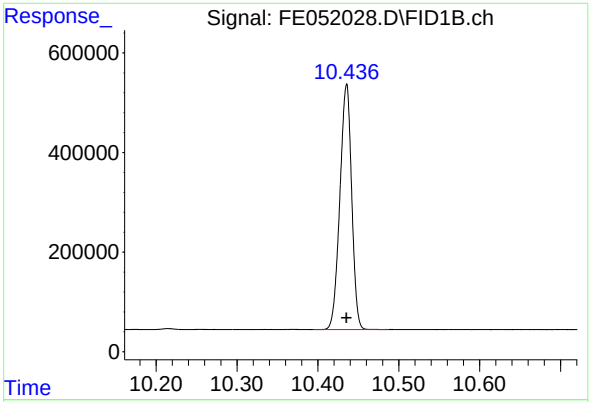
#3 N-DODECANE

R.T.: 7.036 min
Delta R.T.: 0.000 min
Response: 4713212
Conc: 50.00 ug/ml



#4 N-TETRADECANE

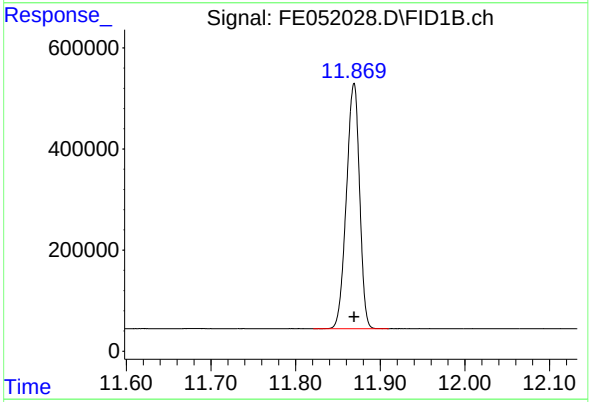
R.T.: 8.842 min
Delta R.T.: 0.000 min
Response: 4775185
Conc: 50.00 ug/ml



#5 N-HEXADECANE

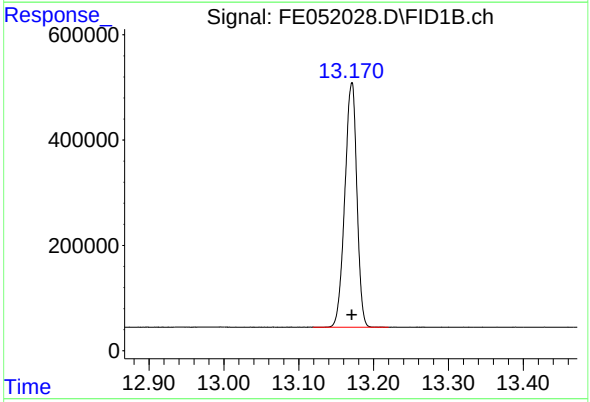
R.T.: 10.436 min
Delta R.T.: 0.000 min
Response: 4988963
Conc: 50.00 ug/ml

Instrument :
FID_E
ClientSampleId :
50 TRPH STD



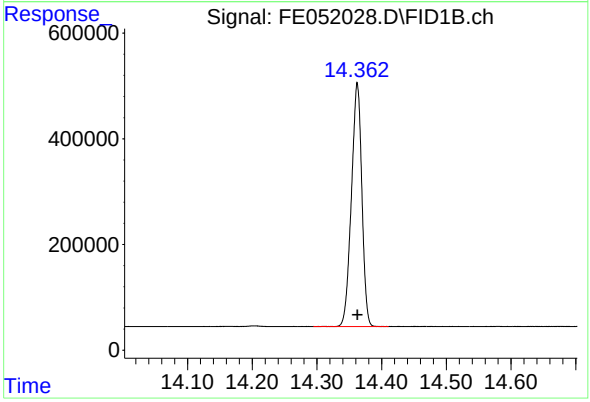
#6 N-OCTADECANE

R.T.: 11.869 min
Delta R.T.: 0.000 min
Response: 5246868
Conc: 50.00 ug/ml



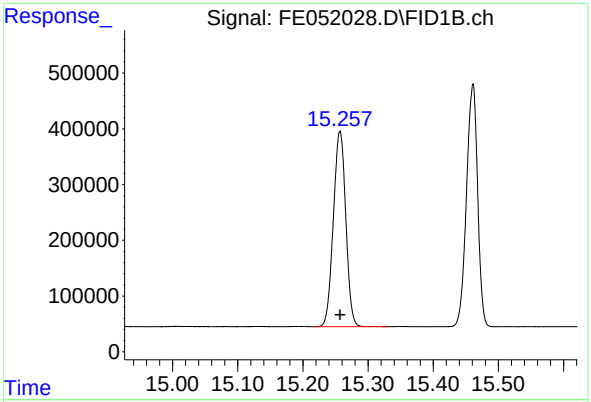
#7 N-EICOSANE

R.T.: 13.171 min
Delta R.T.: 0.000 min
Response: 5196311
Conc: 50.00 ug/ml



#8 N-DOCOSANE

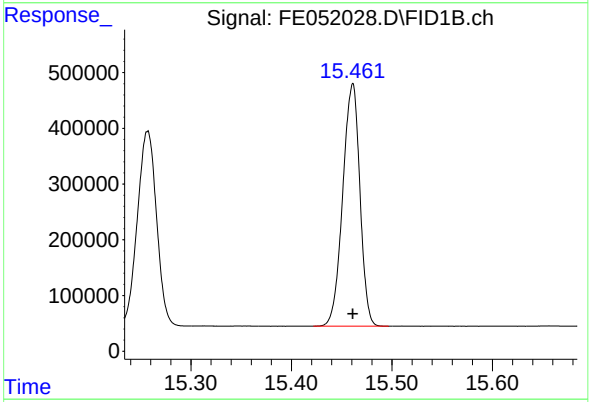
R.T.: 14.362 min
Delta R.T.: 0.000 min
Response: 5172075
Conc: 50.00 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

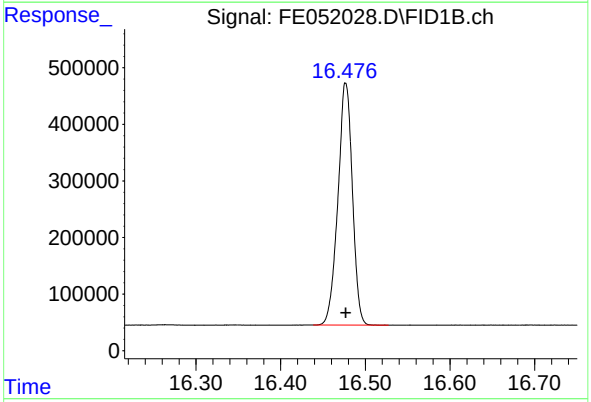
R.T.: 15.257 min
Delta R.T.: 0.000 min
Response: 4655317
Conc: 50.00 ug/ml

Instrument :
FID_E
ClientSampleId :
50 TRPH STD



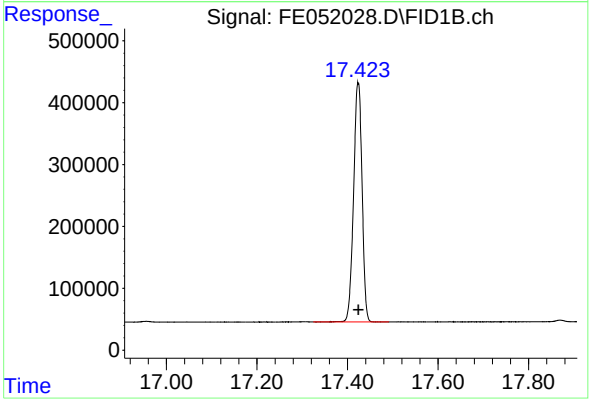
#10 N-TETRACOSANE

R.T.: 15.461 min
Delta R.T.: 0.000 min
Response: 5165286
Conc: 50.00 ug/ml



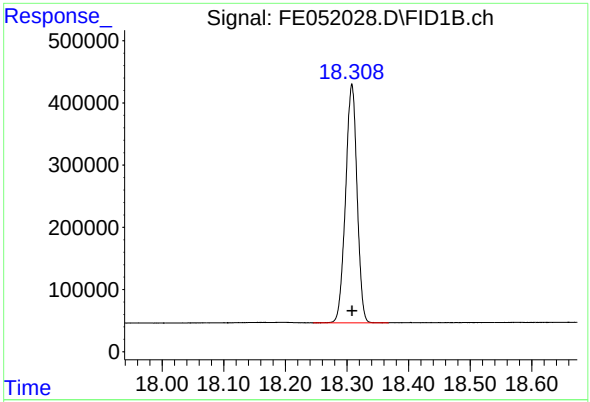
#11 N-HEXACOSANE

R.T.: 16.477 min
Delta R.T.: 0.000 min
Response: 5089619
Conc: 50.00 ug/ml



#12 N-OCTACOSANE

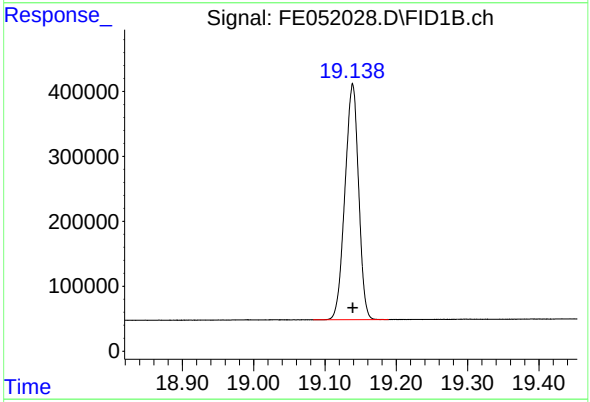
R.T.: 17.424 min
Delta R.T.: 0.000 min
Response: 5035229
Conc: 50.00 ug/ml



#13 N-TRIACONTANE

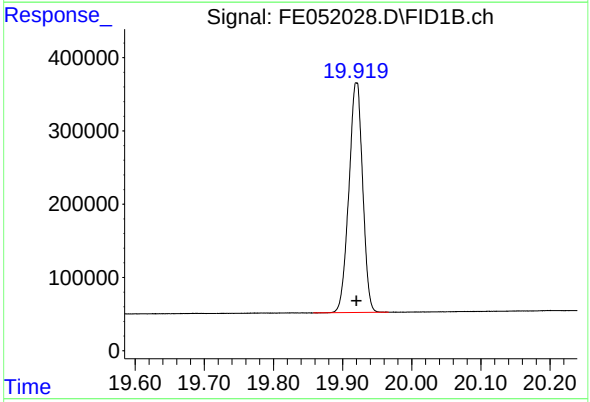
R.T.: 18.308 min
Delta R.T.: 0.000 min
Response: 4974786
Conc: 50.00 ug/ml

Instrument :
FID_E
ClientSampleId :
50 TRPH STD



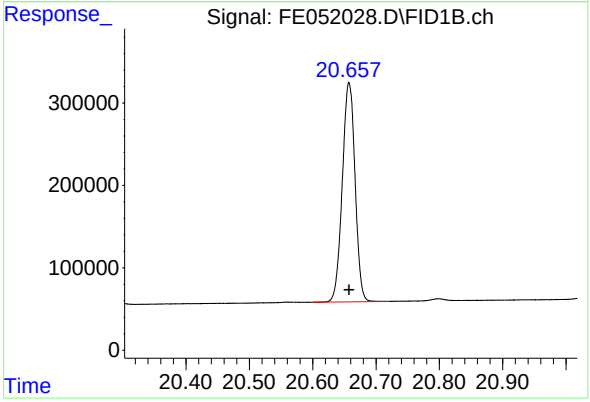
#14 N-DOTRIACONTANE

R.T.: 19.139 min
Delta R.T.: 0.000 min
Response: 4832453
Conc: 50.00 ug/ml



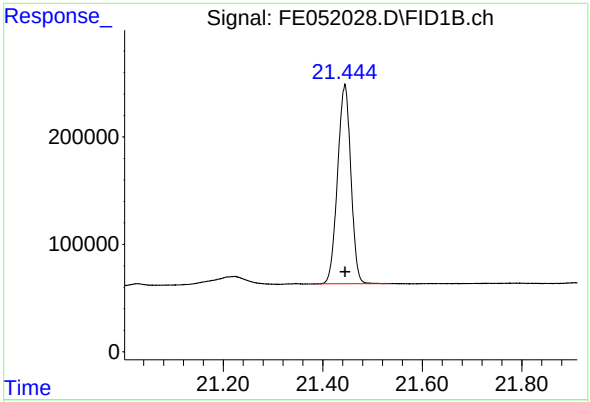
#15 N-TETRATRIACONTANE

R.T.: 19.920 min
Delta R.T.: 0.000 min
Response: 4342985
Conc: 50.00 ug/ml



#16 N-HEXATRIACONTANE

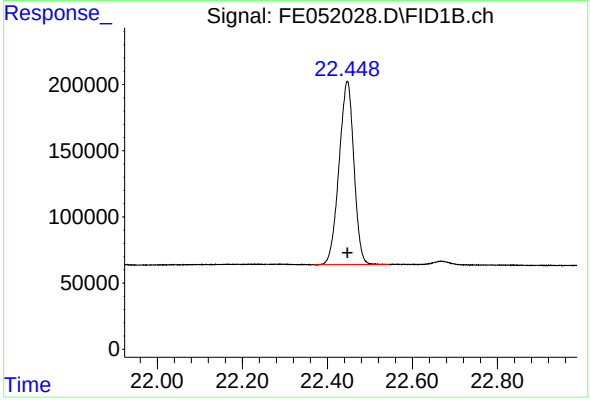
R.T.: 20.657 min
Delta R.T.: 0.000 min
Response: 3725450
Conc: 50.00 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.445 min
Delta R.T.: 0.000 min
Response: 3442776
Conc: 50.00 ug/ml

Instrument :
FID_E
ClientSampleId :
50 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.447 min
Delta R.T.: 0.000 min
Response: 3364772
Conc: 50.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052028.D
Signal(s) : FID1B.ch
Acq On : 23 Jan 2025 23:06
Sample : 50 TRPH STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.412	2.382	2.479	BB	334007	4040248	77.00%	4.863%
2	4.907	4.865	4.957	BB	463698	4328284	82.49%	5.209%
3	7.036	6.995	7.084	BB	518684	4713212	89.83%	5.672%
4	8.842	8.794	8.885	BB	491118	4775185	91.01%	5.747%
5	10.436	10.394	10.487	BB	493549	4988963	95.08%	6.004%
6	11.869	11.821	11.910	BB	485508	5246868	100.00%	6.315%
7	13.171	13.119	13.220	BB	464348	5196311	99.04%	6.254%
8	14.362	14.294	14.411	BB	460694	5172075	98.57%	6.225%
9	15.257	15.216	15.332	BV	349212	4655317	88.73%	5.603%
10	15.461	15.422	15.497	BB	435610	5165286	98.45%	6.217%
11	16.477	16.438	16.527	BB	427488	5089619	97.00%	6.125%
12	17.424	17.324	17.491	BB	386262	5035229	95.97%	6.060%
13	18.308	18.245	18.367	BB	384042	4974786	94.81%	5.987%
14	19.139	19.083	19.189	BB	362886	4832453	92.10%	5.816%
15	19.920	19.857	19.967	BB	313315	4342985	82.77%	5.227%
16	20.657	20.601	20.720	BV	266273	3725450	71.00%	4.484%
17	21.445	21.381	21.532	BB	186220	3442776	65.62%	4.143%
18	22.447	22.367	22.544	BB	138429	3364772	64.13%	4.050%
			Sum of corrected areas:			83089819		

FE012325.M Fri Jan 24 03:18:33 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052029.D
Signal(s) : FID1B.ch
Acq On : 23 Jan 2025 23:36
Operator : YP\AJ
Sample : 20 TRPH STD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 24 03:01:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	15.254	1967122	21.128 ug/ml
	Target Compounds			
1)	N-OCTANE	2.412	1671507	20.686 ug/ml
2)	N-DECANE	4.906	1790386	20.682 ug/ml
3)	N-DODECANE	7.034	1959669	20.789 ug/ml
4)	N-TETRADECANE	8.840	1996208	20.902 ug/ml
5)	N-HEXADECANE	10.433	2090226	20.949 ug/ml
6)	N-OCTADECANE	11.866	2202071	20.985 ug/ml
7)	N-EICOSANE	13.168	2188908	21.062 ug/ml
8)	N-DOCOSANE	14.360	2186141	21.134 ug/ml
10)	N-TETRACOSANE	15.457	2185765	21.158 ug/ml
11)	N-HEXACOSANE	16.475	2160412	21.224 ug/ml
12)	N-OCTACOSANE	17.421	2147225	21.322 ug/ml
13)	N-TRIACONTANE	18.305	2136983	21.478 ug/ml
14)	N-DOTRIACONTANE	19.136	2078753	21.508 ug/ml
15)	N-TETRATRIACONTANE	19.918	1833911	21.113 ug/ml
16)	N-HEXATRIACONTANE	20.657	1534108	20.590 ug/ml
17)	N-OCTATRIACONTANE	21.439	1367415	19.859 ug/ml
18)	N-TETRACONTANE	22.440	1309204	19.455 ug/ml

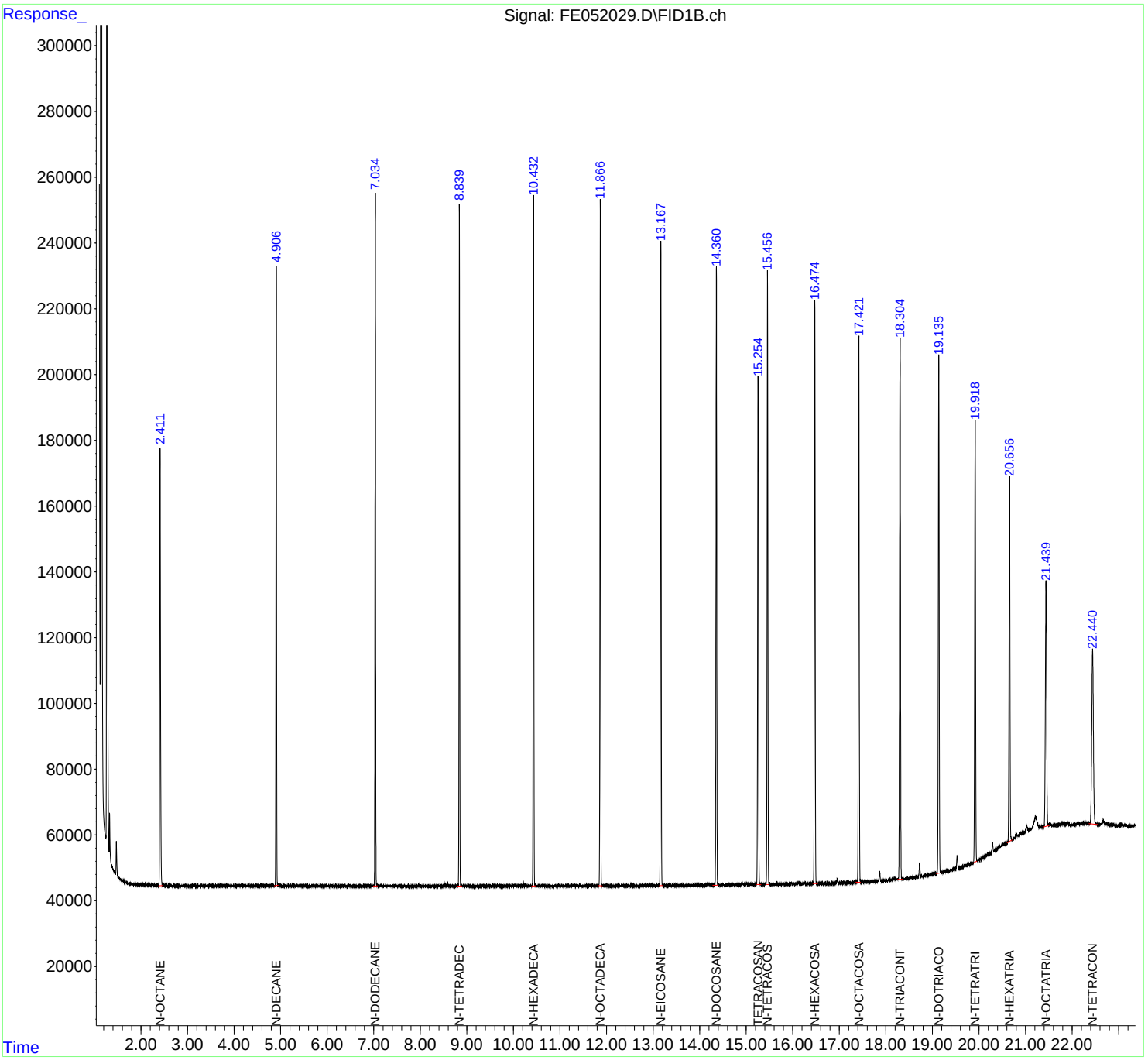
(f)=RT Delta > 1/2 Window (m)=manual int.

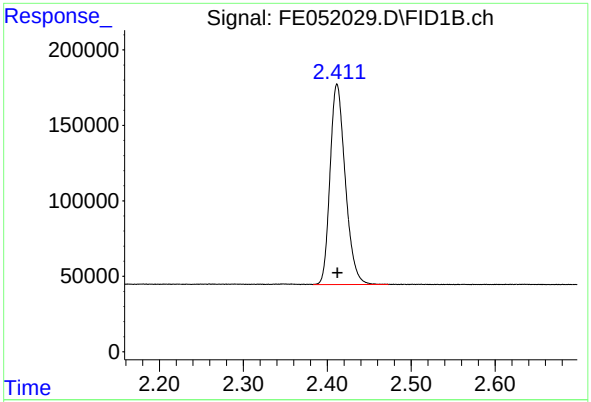
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052029.D
Signal(s) : FID1B.ch
Acq On : 23 Jan 2025 23:36
Operator : YP\AJ
Sample : 20 TRPH STD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 24 03:01:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

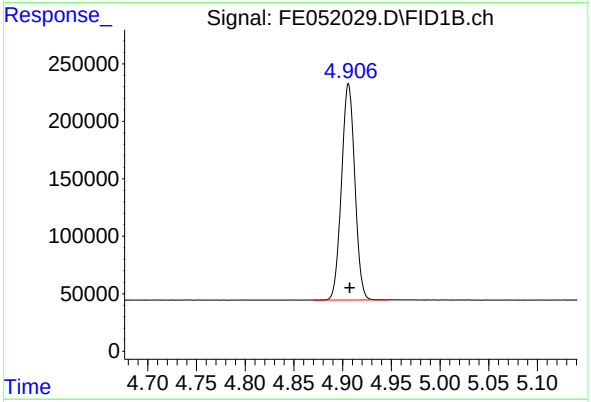




#1 N-OCTANE

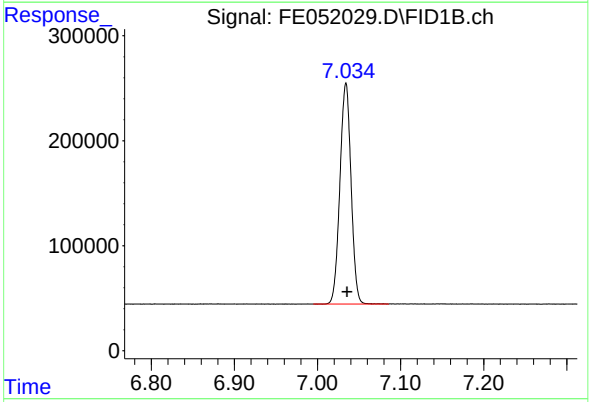
R.T.: 2.412 min
Delta R.T.: 0.000 min
Response: 1671507
Conc: 20.69 ug/ml

Instrument :
FID_E
ClientSampleId :
20 TRPH STD



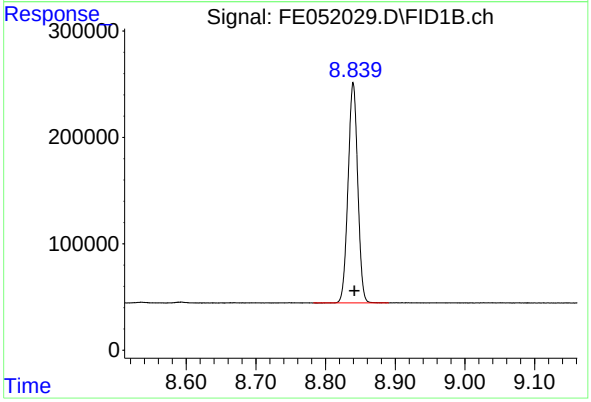
#2 N-DECANE

R.T.: 4.906 min
Delta R.T.: -0.001 min
Response: 1790386
Conc: 20.68 ug/ml



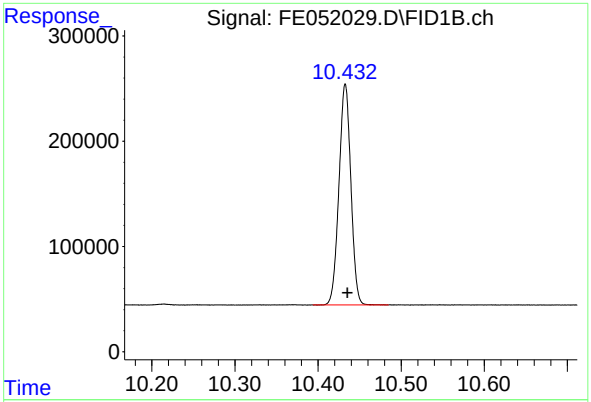
#3 N-DODECANE

R.T.: 7.034 min
Delta R.T.: -0.001 min
Response: 1959669
Conc: 20.79 ug/ml



#4 N-TETRADECANE

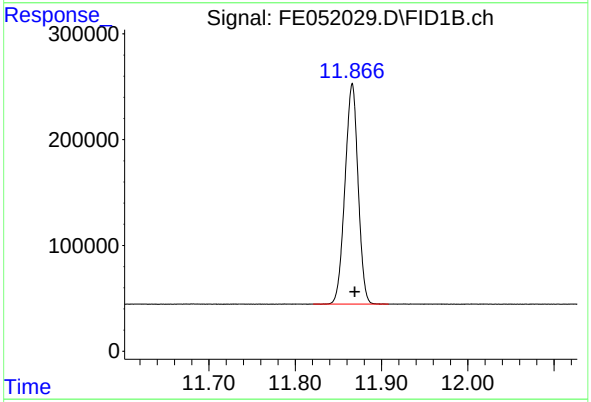
R.T.: 8.840 min
Delta R.T.: -0.002 min
Response: 1996208
Conc: 20.90 ug/ml



#5 N-HEXADECANE

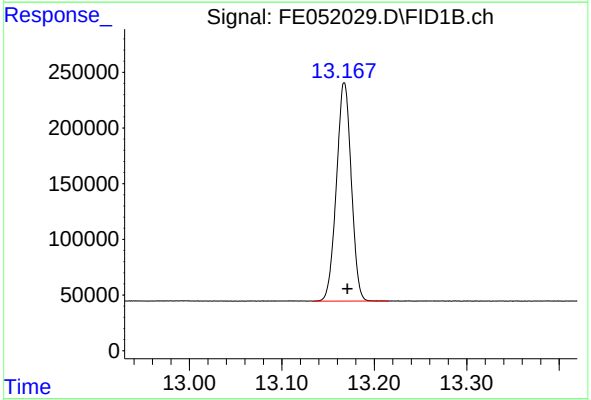
R.T.: 10.433 min
Delta R.T.: -0.003 min
Response: 2090226
Conc: 20.95 ug/ml

Instrument :
FID_E
ClientSampleId :
20 TRPH STD



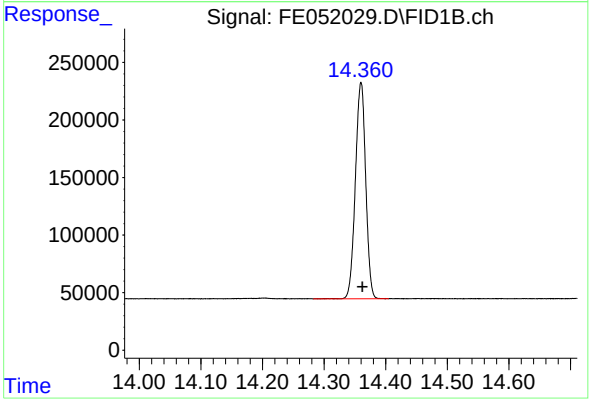
#6 N-OCTADECANE

R.T.: 11.866 min
Delta R.T.: -0.003 min
Response: 2202071
Conc: 20.98 ug/ml



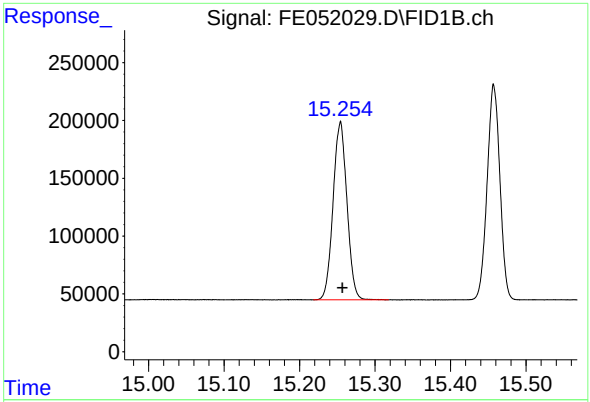
#7 N-EICOSANE

R.T.: 13.168 min
Delta R.T.: -0.003 min
Response: 2188908
Conc: 21.06 ug/ml



#8 N-DOCOSANE

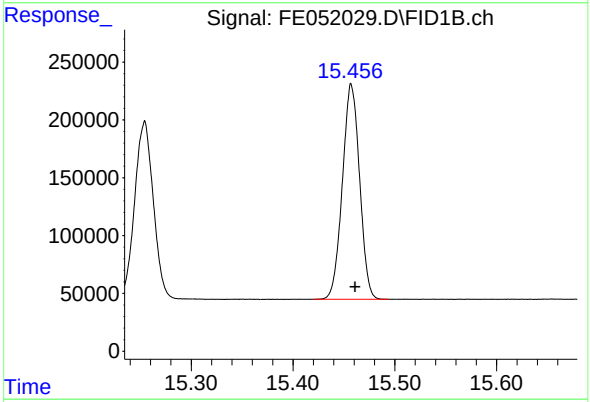
R.T.: 14.360 min
Delta R.T.: -0.002 min
Response: 2186141
Conc: 21.13 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

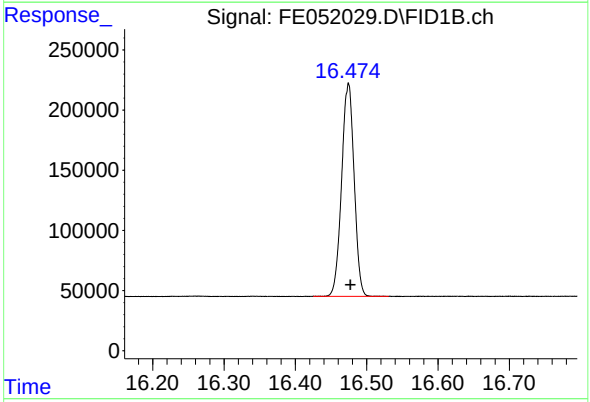
R.T.: 15.254 min
Delta R.T.: -0.003 min
Response: 1967122
Conc: 21.13 ug/ml

Instrument :
FID_E
ClientSampleId :
20 TRPH STD



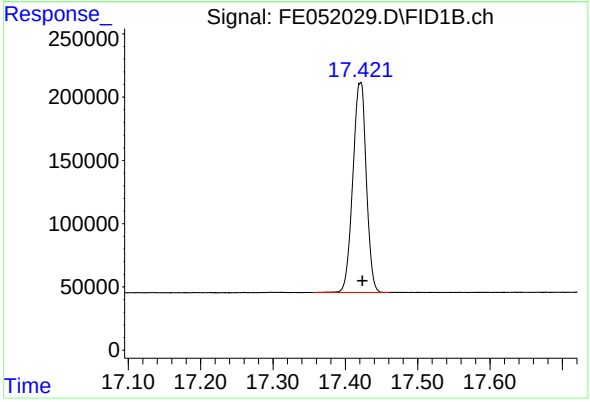
#10 N-TETRACOSANE

R.T.: 15.457 min
Delta R.T.: -0.004 min
Response: 2185765
Conc: 21.16 ug/ml



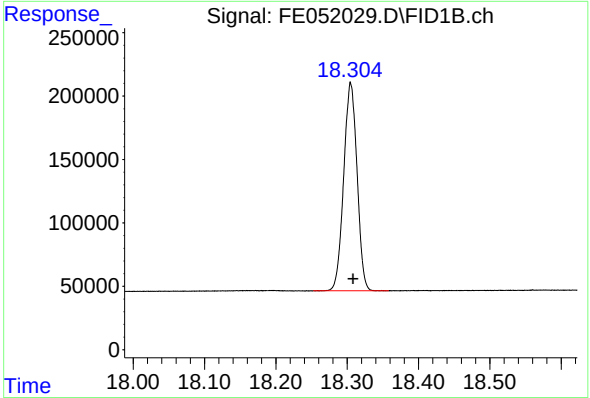
#11 N-HEXACOSANE

R.T.: 16.475 min
Delta R.T.: -0.002 min
Response: 2160412
Conc: 21.22 ug/ml



#12 N-OCTACOSANE

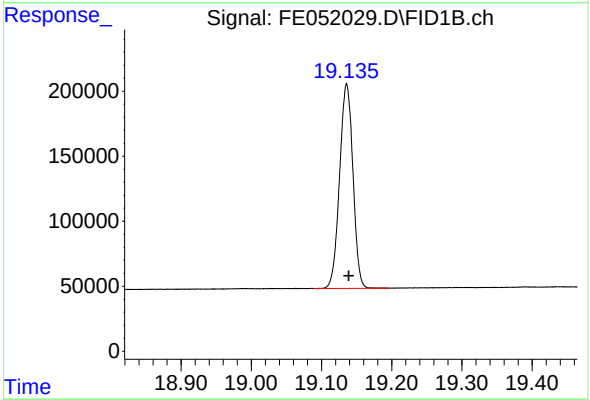
R.T.: 17.421 min
Delta R.T.: -0.003 min
Response: 2147225
Conc: 21.32 ug/ml



#13 N-TRIACONTANE

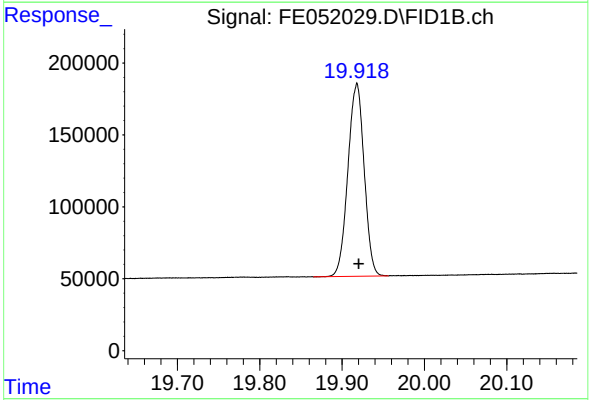
R.T.: 18.305 min
Delta R.T.: -0.003 min
Response: 2136983
Conc: 21.48 ug/ml

Instrument :
FID_E
ClientSampleId :
20 TRPH STD



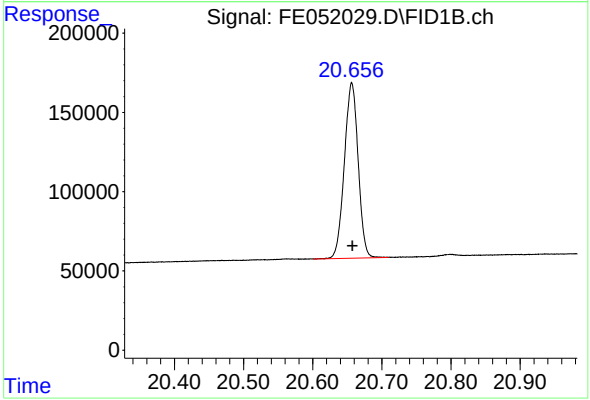
#14 N-DOTRIACONTANE

R.T.: 19.136 min
Delta R.T.: -0.003 min
Response: 2078753
Conc: 21.51 ug/ml



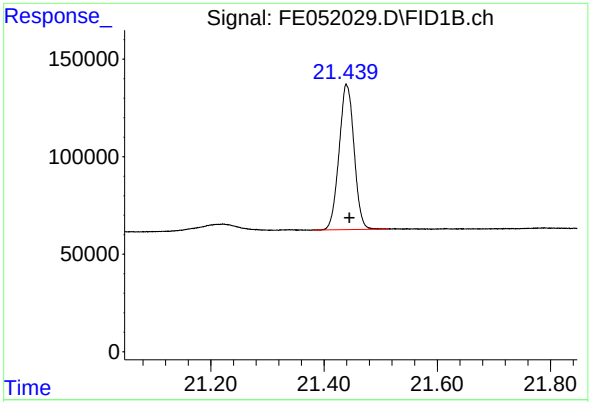
#15 N-TETRATRIACONTANE

R.T.: 19.918 min
Delta R.T.: -0.002 min
Response: 1833911
Conc: 21.11 ug/ml



#16 N-HEXATRIACONTANE

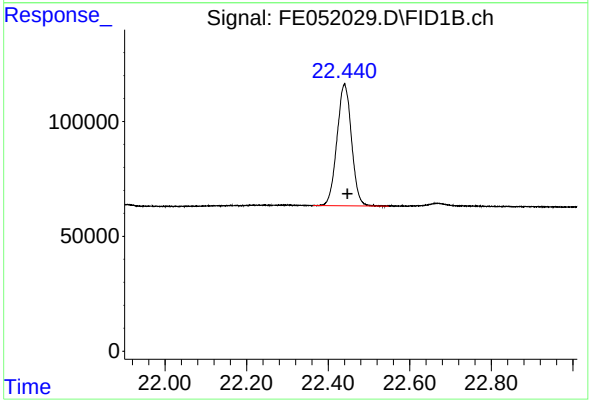
R.T.: 20.657 min
Delta R.T.: 0.000 min
Response: 1534108
Conc: 20.59 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.439 min
Delta R.T.: -0.005 min
Response: 1367415
Conc: 19.86 ug/ml

Instrument :
FID_E
ClientSampleId :
20 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.440 min
Delta R.T.: -0.007 min
Response: 1309204
Conc: 19.45 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052029.D
Signal(s) : FID1B.ch
Acq On : 23 Jan 2025 23:36
Sample : 20 TRPH STD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.412	2.383	2.473	BB	132906	1671507	75.91%	4.802%
2	4.906	4.870	4.947	BB	188470	1790386	81.30%	5.144%
3	7.034	6.995	7.086	BB	210395	1959669	88.99%	5.630%
4	8.840	8.782	8.891	BB	206958	1996208	90.65%	5.735%
5	10.433	10.394	10.485	BB	210083	2090226	94.92%	6.005%
6	11.866	11.821	11.908	BB	209078	2202071	100.00%	6.327%
7	13.168	13.134	13.216	BB	196057	2188908	99.40%	6.289%
8	14.360	14.282	14.405	BB	188088	2186141	99.28%	6.281%
9	15.254	15.218	15.318	BB	154122	1967122	89.33%	5.652%
10	15.457	15.420	15.494	BB	185791	2185765	99.26%	6.280%
11	16.475	16.425	16.531	BB	177131	2160412	98.11%	6.207%
12	17.421	17.356	17.460	BB	165726	2147225	97.51%	6.169%
13	18.305	18.252	18.358	BB	163835	2136983	97.04%	6.140%
14	19.136	19.088	19.196	BB	157435	2078753	94.40%	5.972%
15	19.918	19.865	19.957	BB	134470	1833911	83.28%	5.269%
16	20.657	20.601	20.710	BB	110823	1534108	69.67%	4.408%
17	21.439	21.381	21.514	BB	74580	1367415	62.10%	3.929%
18	22.440	22.363	22.548	BB	53116	1309204	59.45%	3.761%
			Sum of corrected areas:			34806015		

FE012325.M Fri Jan 24 03:19:04 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052030.D
Signal(s) : FID1B.ch
Acq On : 24 Jan 2025 00:06
Operator : YP\AJ
Sample : 10 TRPH STD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 24 03:02:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	15.253	1061033	11.396 ug/ml
	Target Compounds			
1)	N-OCTANE	2.412	889828	11.012 ug/ml
2)	N-DECANE	4.906	959030	11.079 ug/ml
3)	N-DODECANE	7.033	1052037	11.161 ug/ml
4)	N-TETRADECANE	8.839	1077547	11.283 ug/ml
5)	N-HEXADECANE	10.432	1131977	11.345 ug/ml
6)	N-OCTADECANE	11.865	1193205	11.371 ug/ml
7)	N-EICOSANE	13.167	1184917	11.402 ug/ml
8)	N-DOCOSANE	14.358	1182709	11.434 ug/ml
10)	N-TETRACOSANE	15.456	1180708	11.429 ug/ml
11)	N-HEXACOSANE	16.473	1163260	11.428 ug/ml
12)	N-OCTACOSANE	17.419	1147105	11.391 ug/ml
13)	N-TRIACONTANE	18.304	1137270	11.430 ug/ml
14)	N-DOTRIACONTANE	19.134	1110748	11.493 ug/ml
15)	N-TETRATRIACONTANE	19.915	1019077	11.732 ug/ml
16)	N-HEXATRIACONTANE	20.653	911856	12.238 ug/ml
17)	N-OCTATRIACONTANE	21.439	859350	12.480 ug/ml
18)	N-TETRACONTANE	22.441	882539	13.114 ug/ml

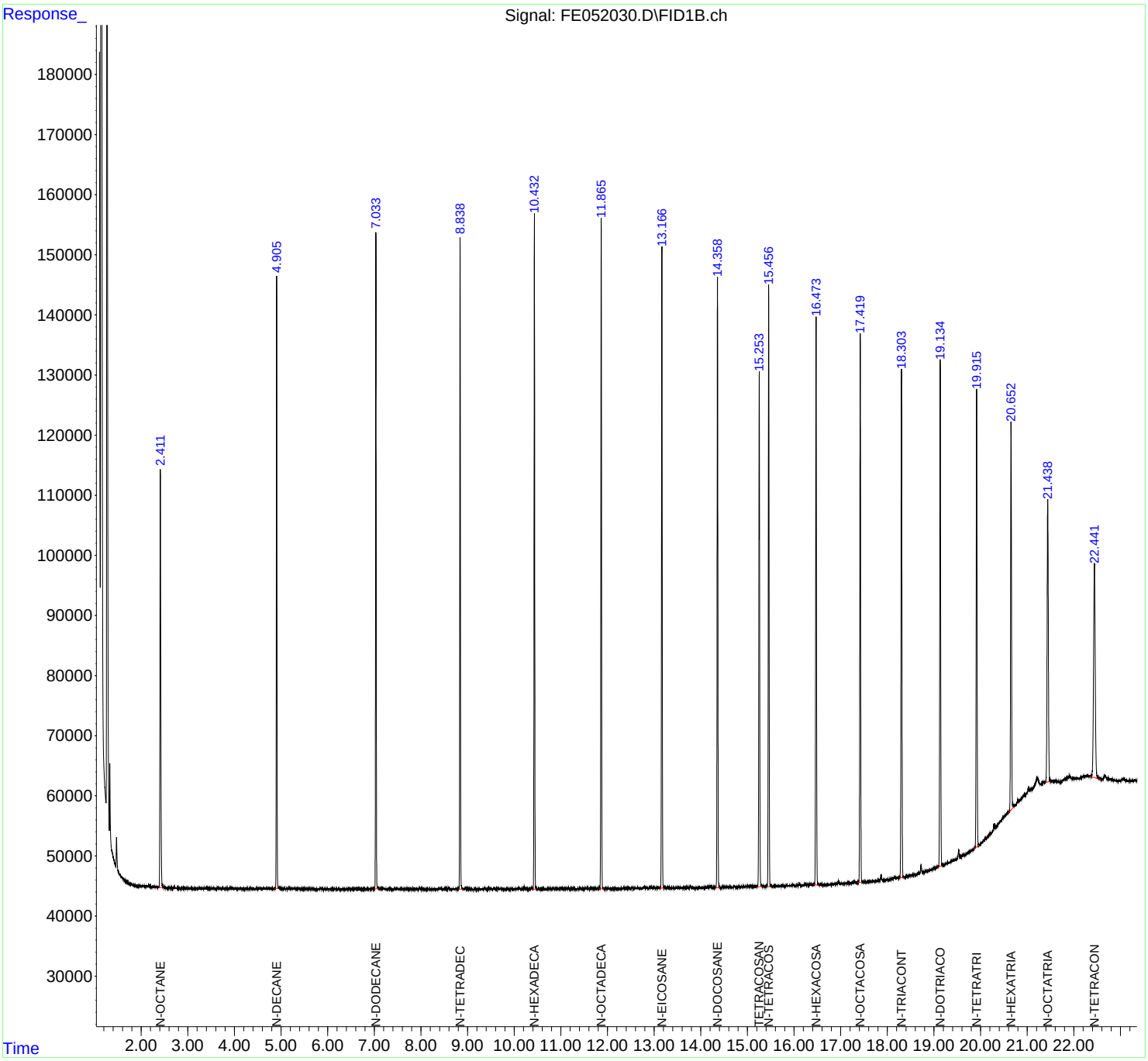
(f)=RT Delta > 1/2 Window (m)=manual int.

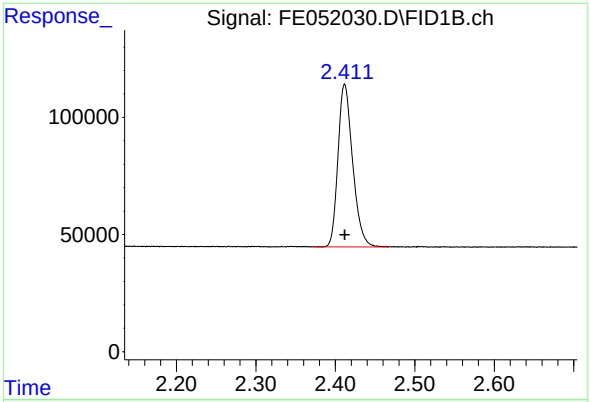
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052030.D
Signal(s) : FID1B.ch
Acq On : 24 Jan 2025 00:06
Operator : YP\AJ
Sample : 10 TRPH STD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 24 03:02:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

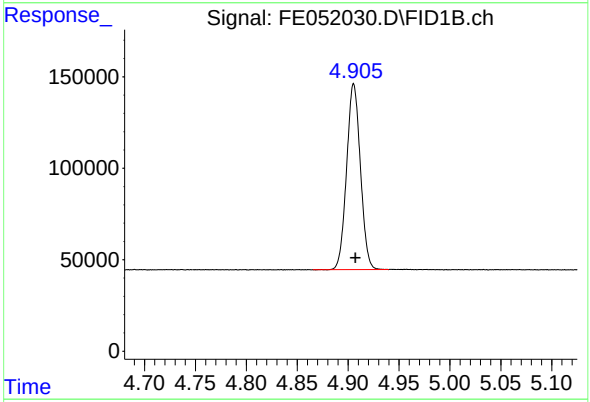




#1 N-OCTANE

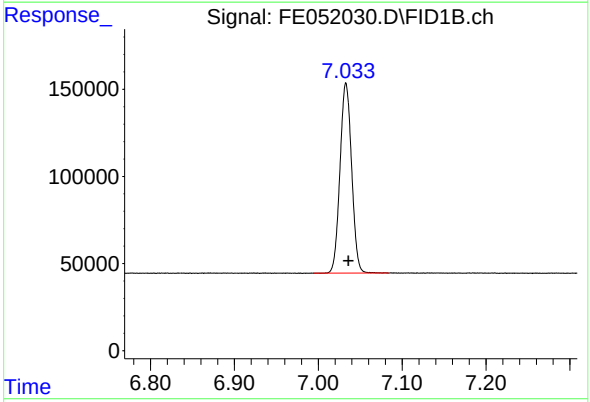
R.T.: 2.412 min
Delta R.T.: 0.000 min
Response: 889828
Conc: 11.01 ug/ml

Instrument :
FID_E
ClientSampleId :
10 TRPH STD



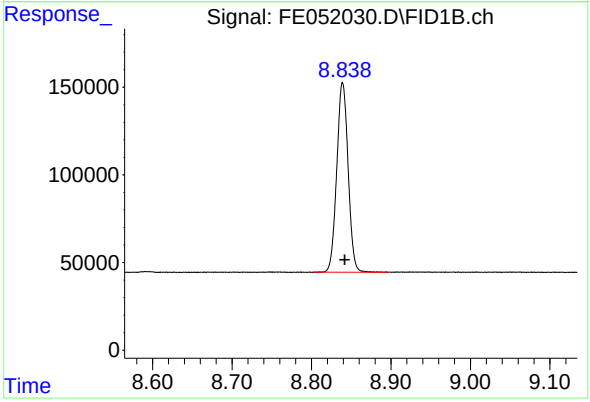
#2 N-DECANE

R.T.: 4.906 min
Delta R.T.: -0.002 min
Response: 959030
Conc: 11.08 ug/ml



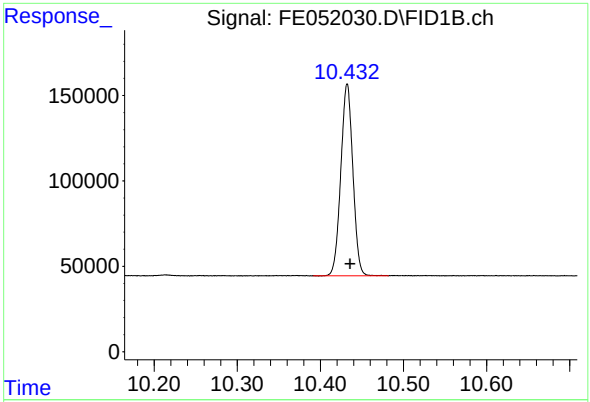
#3 N-DODECANE

R.T.: 7.033 min
Delta R.T.: -0.003 min
Response: 1052037
Conc: 11.16 ug/ml



#4 N-TETRADECANE

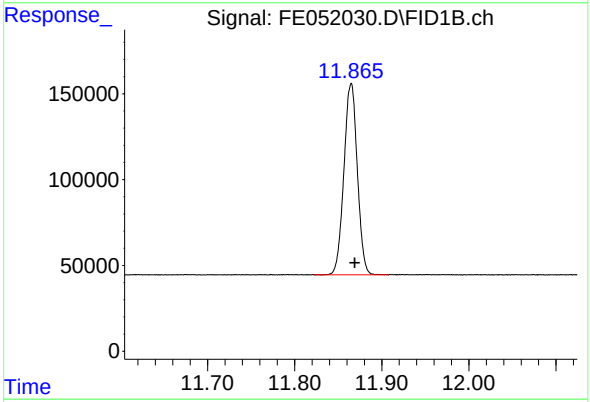
R.T.: 8.839 min
Delta R.T.: -0.003 min
Response: 1077547
Conc: 11.28 ug/ml



#5 N-HEXADECANE

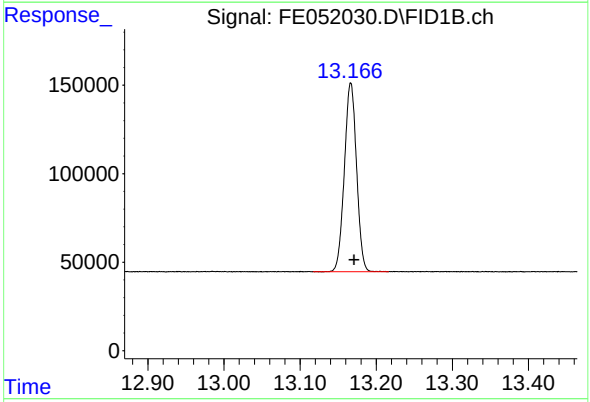
R.T.: 10.432 min
Delta R.T.: -0.003 min
Response: 1131977
Conc: 11.34 ug/ml

Instrument :
FID_E
ClientSampleId :
10 TRPH STD



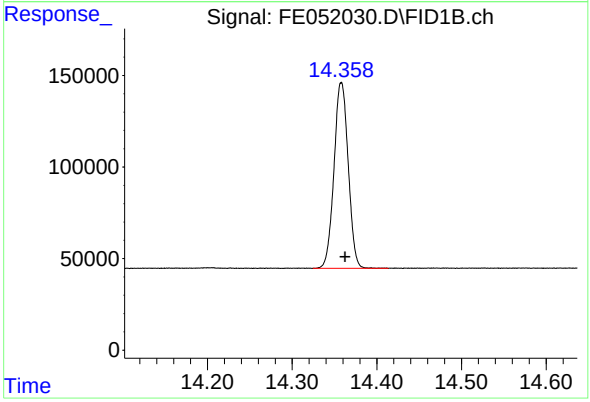
#6 N-OCTADECANE

R.T.: 11.865 min
Delta R.T.: -0.004 min
Response: 1193205
Conc: 11.37 ug/ml



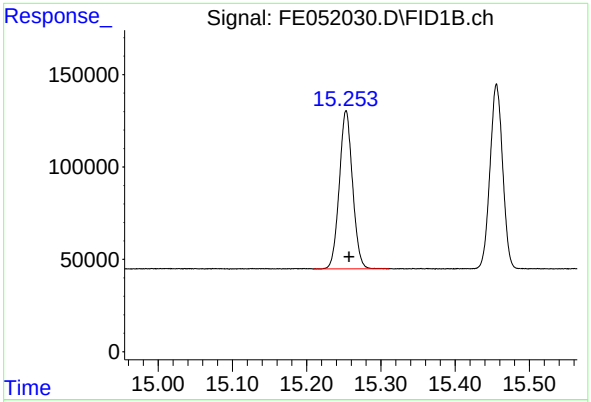
#7 N-EICOSANE

R.T.: 13.167 min
Delta R.T.: -0.004 min
Response: 1184917
Conc: 11.40 ug/ml



#8 N-DOCOSANE

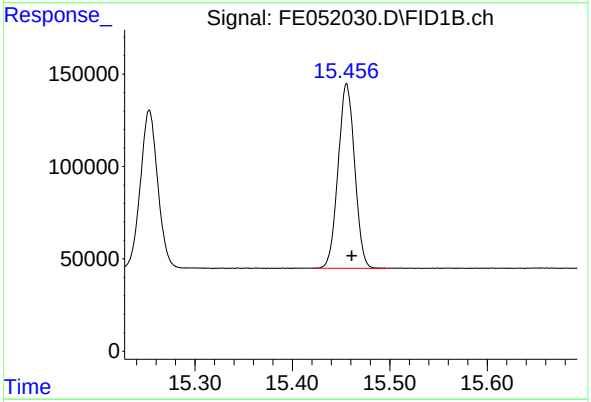
R.T.: 14.358 min
Delta R.T.: -0.004 min
Response: 1182709
Conc: 11.43 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

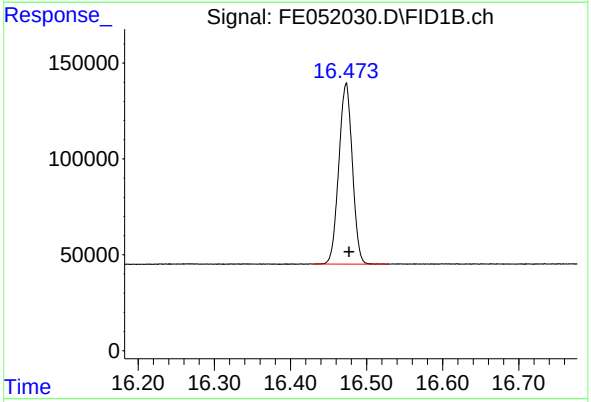
R.T.: 15.253 min
Delta R.T.: -0.004 min
Response: 1061033
Conc: 11.40 ug/ml

Instrument :
FID_E
ClientSampleId :
10 TRPH STD



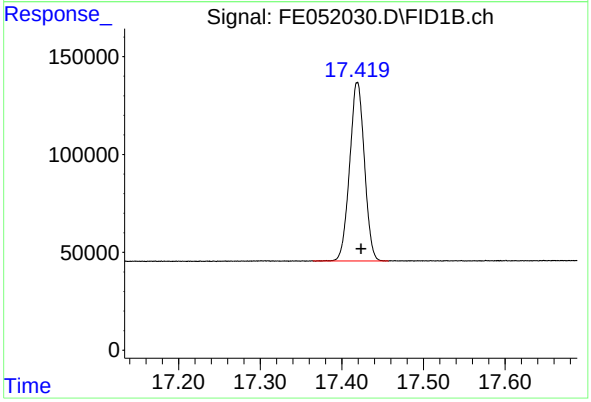
#10 N-TETRACOSANE

R.T.: 15.456 min
Delta R.T.: -0.005 min
Response: 1180708
Conc: 11.43 ug/ml



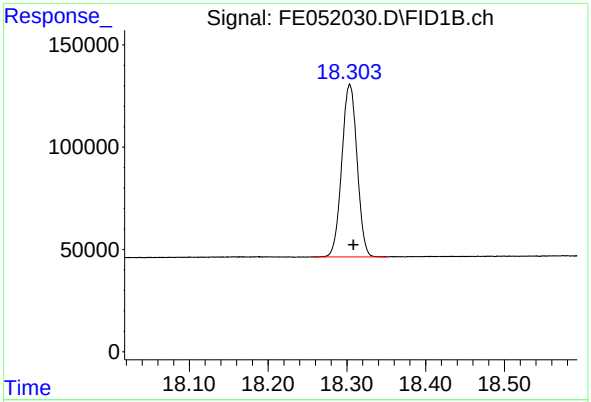
#11 N-HEXACOSANE

R.T.: 16.473 min
Delta R.T.: -0.004 min
Response: 1163260
Conc: 11.43 ug/ml



#12 N-OCTACOSANE

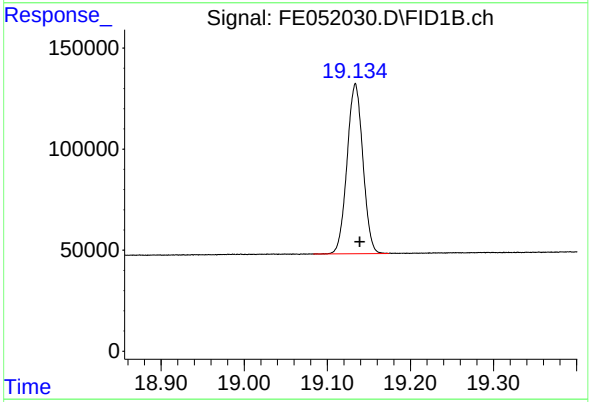
R.T.: 17.419 min
Delta R.T.: -0.005 min
Response: 1147105
Conc: 11.39 ug/ml



#13 N-TRIACONTANE

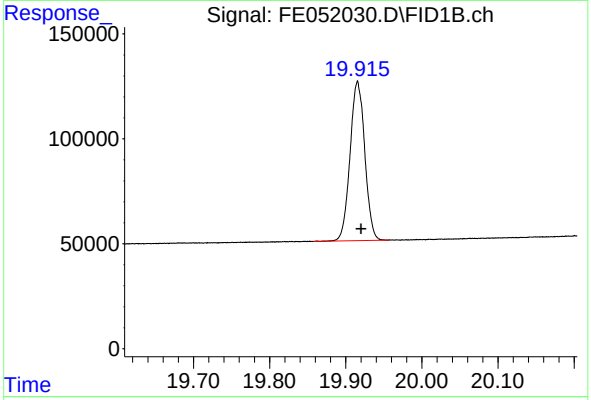
R.T.: 18.304 min
Delta R.T.: -0.004 min
Response: 1137270
Conc: 11.43 ug/ml

Instrument :
FID_E
ClientSampleId :
10 TRPH STD



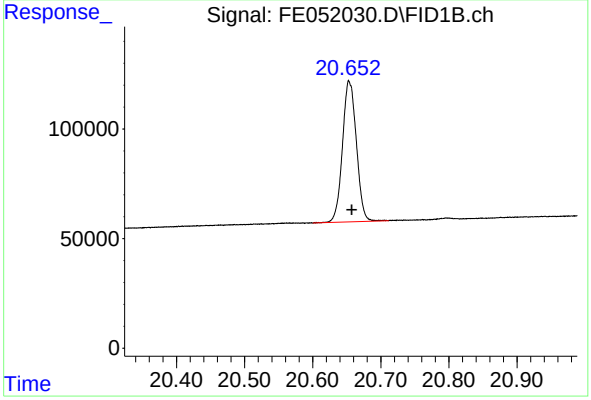
#14 N-DOTRIACONTANE

R.T.: 19.134 min
Delta R.T.: -0.005 min
Response: 1110748
Conc: 11.49 ug/ml



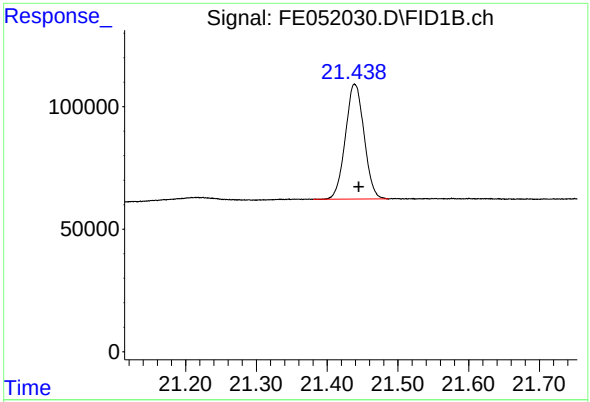
#15 N-TETRATRIACONTANE

R.T.: 19.915 min
Delta R.T.: -0.005 min
Response: 1019077
Conc: 11.73 ug/ml



#16 N-HEXATRIACONTANE

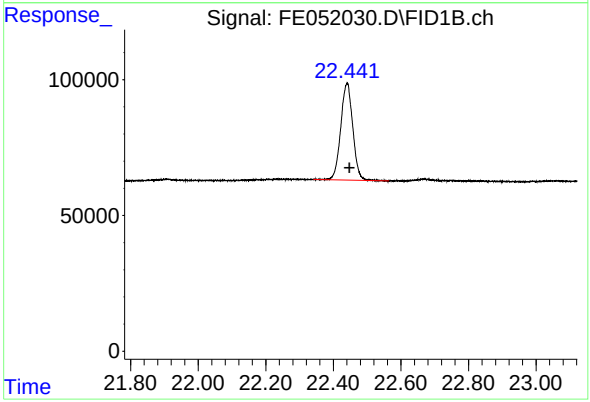
R.T.: 20.653 min
Delta R.T.: -0.004 min
Response: 911856
Conc: 12.24 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.439 min
Delta R.T.: -0.006 min
Response: 859350
Conc: 12.48 ug/ml

Instrument :
FID_E
ClientSampleId :
10 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.441 min
Delta R.T.: -0.006 min
Response: 882539
Conc: 13.11 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052030.D
Signal(s) : FID1B.ch
Acq On : 24 Jan 2025 00:06
Sample : 10 TRPH STD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.412	2.372	2.467	BB	69493	889828	74.57%	4.648%
2	4.906	4.866	4.940	BB	101609	959030	80.37%	5.010%
3	7.033	6.994	7.084	BB	109120	1052037	88.17%	5.495%
4	8.839	8.802	8.897	BB	108235	1077547	90.31%	5.629%
5	10.432	10.391	10.482	BB	112372	1131977	94.87%	5.913%
6	11.865	11.821	11.908	BB	111538	1193205	100.00%	6.233%
7	13.167	13.117	13.216	BB	106724	1184917	99.31%	6.189%
8	14.358	14.325	14.414	BB	101224	1182709	99.12%	6.178%
9	15.253	15.209	15.311	BB	85655	1061033	88.92%	5.542%
10	15.456	15.421	15.499	BB	100063	1180708	98.95%	6.167%
11	16.473	16.430	16.529	BB	94113	1163260	97.49%	6.076%
12	17.419	17.365	17.457	BB	91106	1147105	96.14%	5.992%
13	18.304	18.257	18.353	BB	84490	1137270	95.31%	5.941%
14	19.134	19.083	19.174	BB	84307	1110748	93.09%	5.802%
15	19.915	19.857	19.956	BB	76197	1019077	85.41%	5.323%
16	20.653	20.601	20.711	BB	64297	911856	76.42%	4.763%
17	21.439	21.380	21.487	BV	46908	859350	72.02%	4.489%
18	22.441	22.340	22.563	BV	35571	882539	73.96%	4.610%
			Sum of corrected areas:			19144194		

FE012325.M Fri Jan 24 03:19:32 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052031.D
Signal(s) : FID1B.ch
Acq On : 24 Jan 2025 00:36
Operator : YP\AJ
Sample : 5 TRPH STD
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 24 03:02:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	15.253	535796	5.755 ug/ml
	Target Compounds			
1)	N-OCTANE	2.412	447517	5.538 ug/ml
2)	N-DECANE	4.906	479458	5.539 ug/ml
3)	N-DODECANE	7.033	524622	5.565 ug/ml
4)	N-TETRADECANE	8.839	538294	5.636 ug/ml
5)	N-HEXADECANE	10.432	566935	5.682 ug/ml
6)	N-OCTADECANE	11.864	597723	5.696 ug/ml
7)	N-EICOSANE	13.166	599565	5.769 ug/ml
8)	N-DOCOSANE	14.358	599958	5.800 ug/ml
10)	N-TETRACOSANE	15.456	594003	5.750 ug/ml
11)	N-HEXACOSANE	16.473	585191	5.749 ug/ml
12)	N-OCTACOSANE	17.418	583549	5.795 ug/ml
13)	N-TRIACONTANE	18.303	588228	5.912 ug/ml
14)	N-DOTRIACONTANE	19.133	573000	5.929 ug/ml
15)	N-TETRATRIACONTANE	19.915	509659	5.868 ug/ml
16)	N-HEXATRIACONTANE	20.654	427588	5.739 ug/ml
17)	N-OCTATRIACONTANE	21.439	394101	5.724 ug/ml
18)	N-TETRACONTANE	22.438	382667	5.686 ug/ml

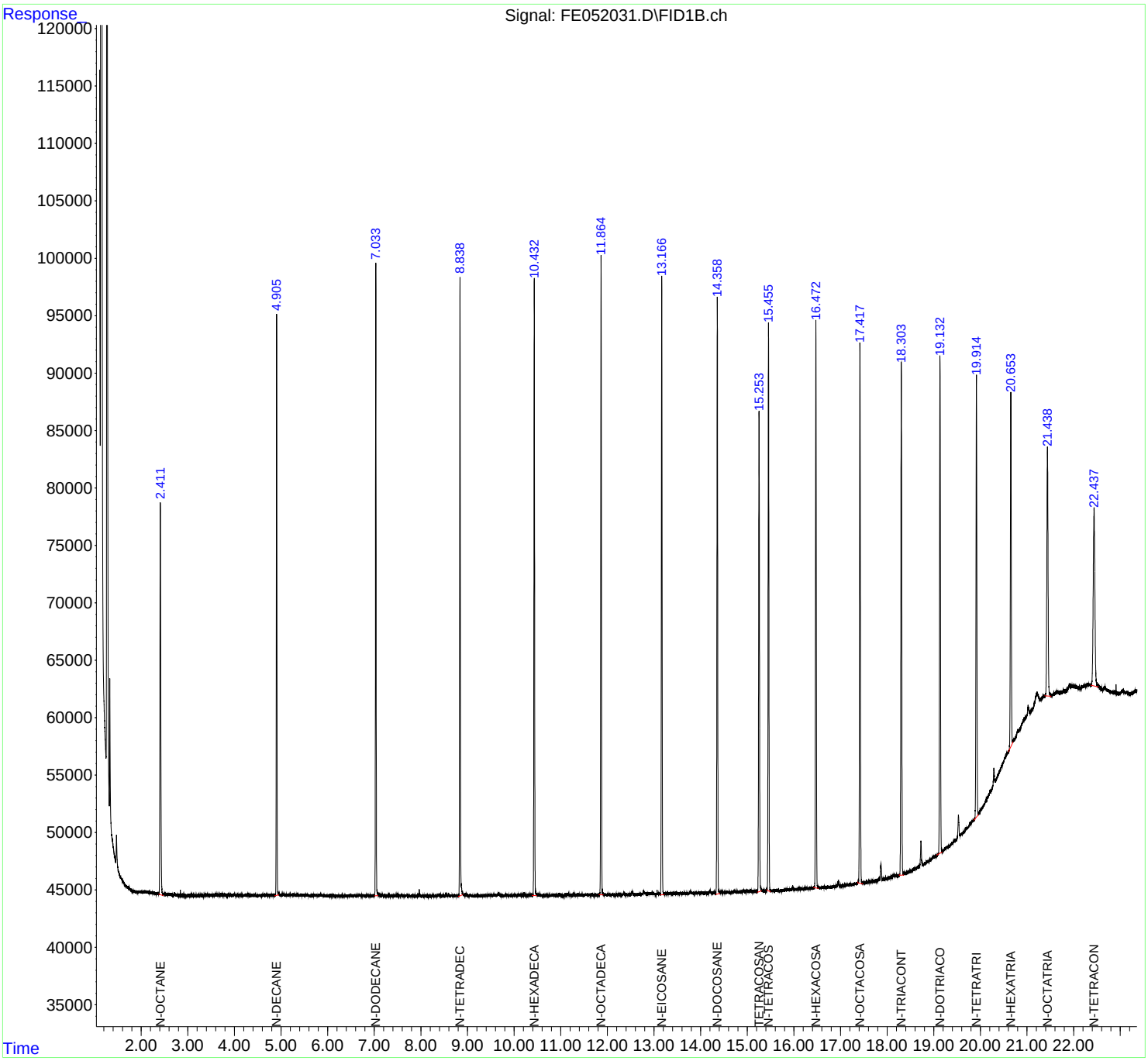
(f)=RT Delta > 1/2 Window (m)=manual int.

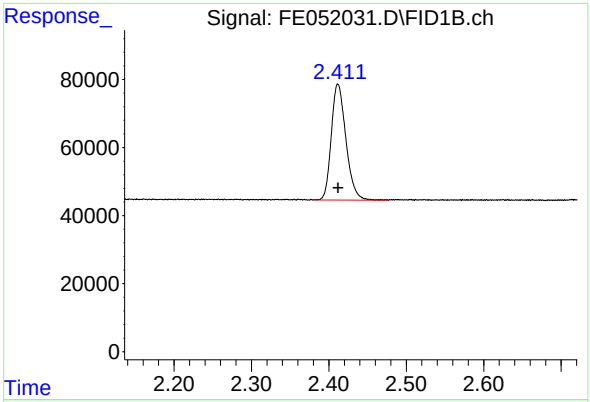
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052031.D
Signal(s) : FID1B.ch
Acq On : 24 Jan 2025 00:36
Operator : YP\AJ
Sample : 5 TRPH STD
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 TRPH STD

Integration File: autoint1.e
Quant Time: Jan 24 03:02:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

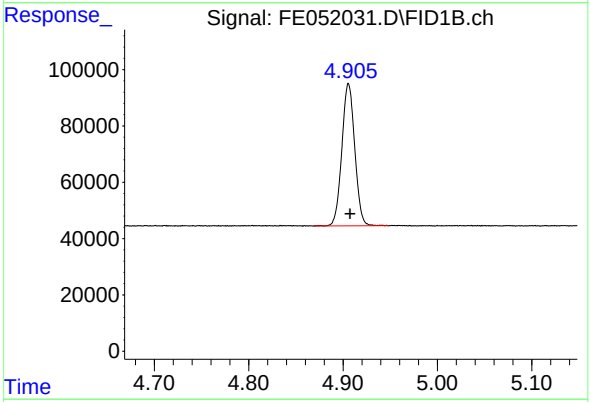




#1 N-OCTANE

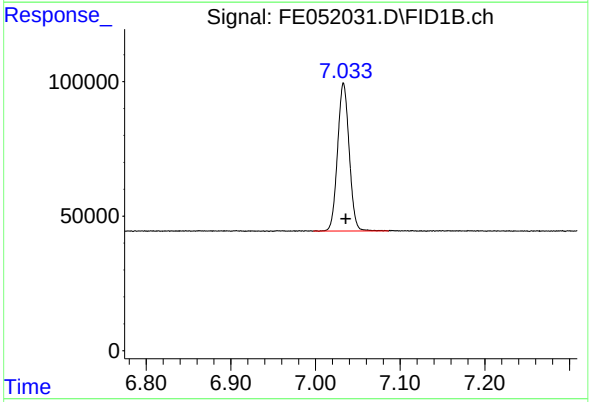
R.T.: 2.412 min
Delta R.T.: 0.000 min
Response: 447517
Conc: 5.54 ug/ml

Instrument :
FID_E
ClientSampleId :
5 TRPH STD



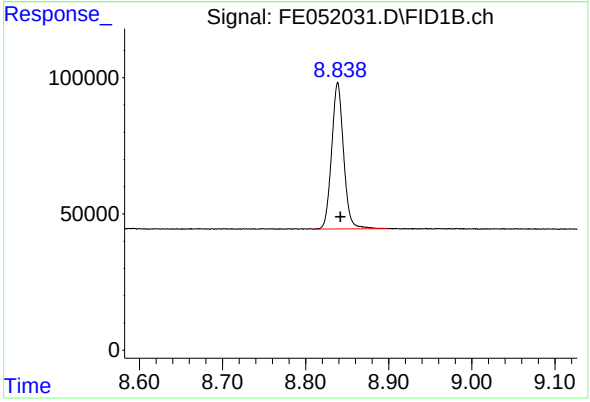
#2 N-DECANE

R.T.: 4.906 min
Delta R.T.: -0.001 min
Response: 479458
Conc: 5.54 ug/ml



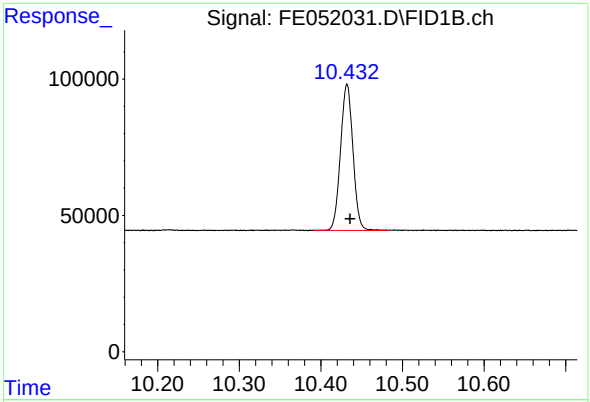
#3 N-DODECANE

R.T.: 7.033 min
Delta R.T.: -0.003 min
Response: 524622
Conc: 5.57 ug/ml



#4 N-TETRADECANE

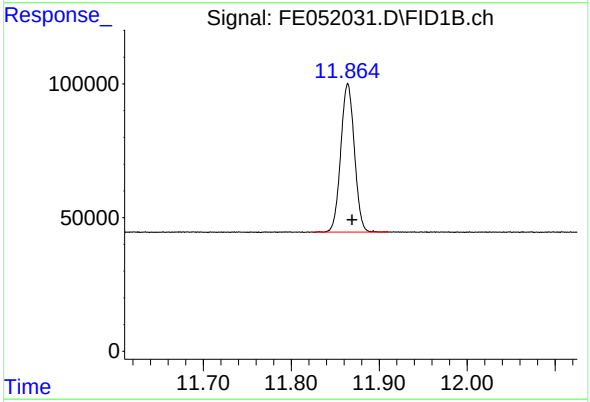
R.T.: 8.839 min
Delta R.T.: -0.003 min
Response: 538294
Conc: 5.64 ug/ml



#5 N-HEXADECANE

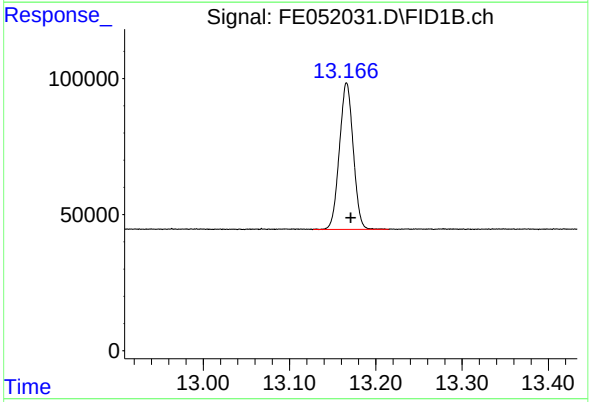
R.T.: 10.432 min
Delta R.T.: -0.003 min
Response: 566935
Conc: 5.68 ug/ml

Instrument :
FID_E
ClientSampleId :
5 TRPH STD



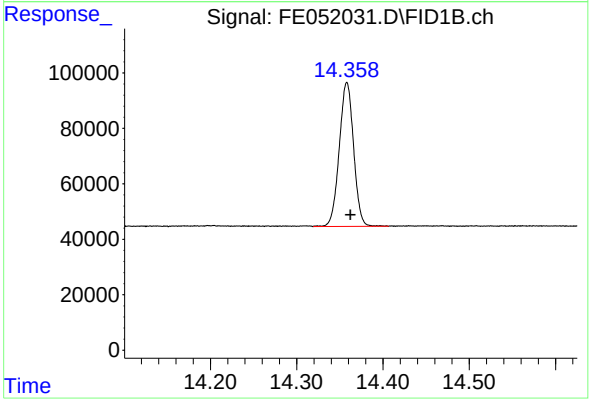
#6 N-OCTADECANE

R.T.: 11.864 min
Delta R.T.: -0.005 min
Response: 597723
Conc: 5.70 ug/ml



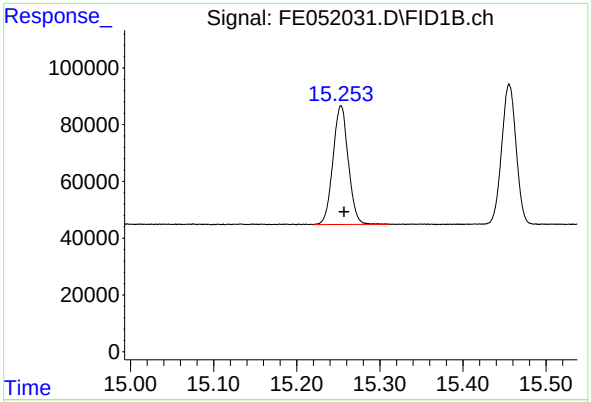
#7 N-EICOSANE

R.T.: 13.166 min
Delta R.T.: -0.005 min
Response: 599565
Conc: 5.77 ug/ml



#8 N-DOCOSANE

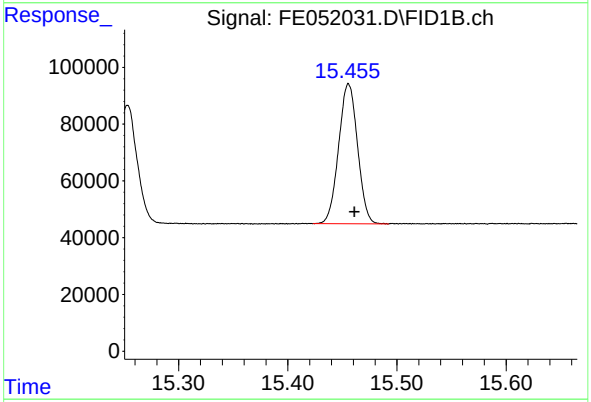
R.T.: 14.358 min
Delta R.T.: -0.004 min
Response: 599958
Conc: 5.80 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

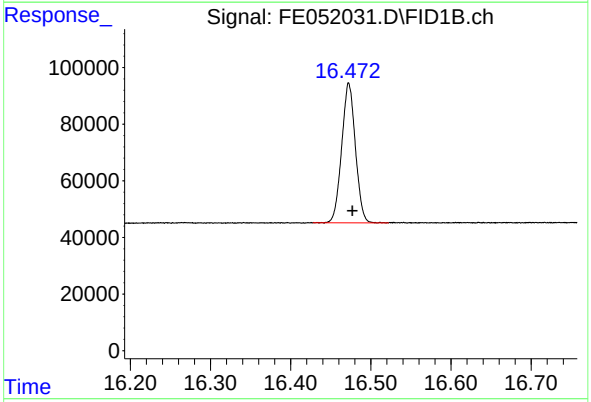
R.T.: 15.253 min
Delta R.T.: -0.004 min
Response: 535796
Conc: 5.75 ug/ml

Instrument :
FID_E
ClientSampleId :
5 TRPH STD



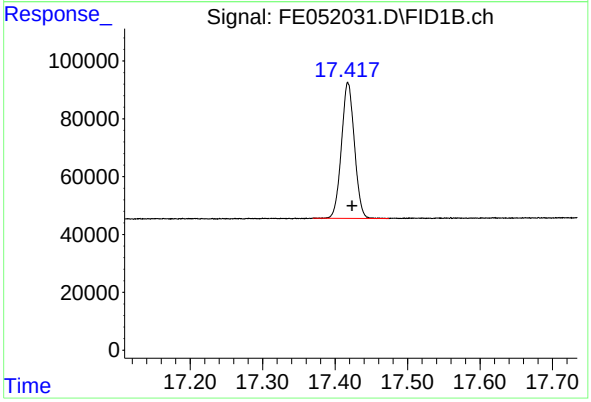
#10 N-TETRACOSANE

R.T.: 15.456 min
Delta R.T.: -0.005 min
Response: 594003
Conc: 5.75 ug/ml



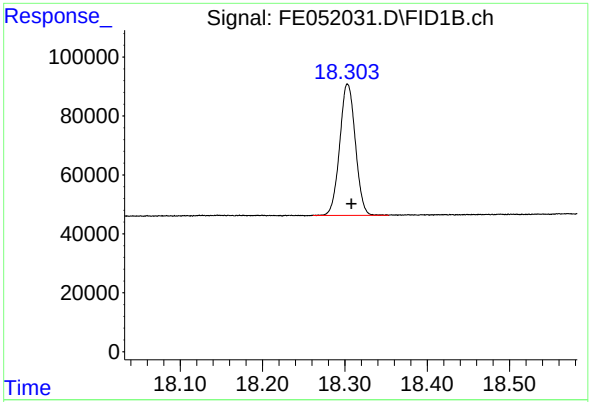
#11 N-HEXACOSANE

R.T.: 16.473 min
Delta R.T.: -0.004 min
Response: 585191
Conc: 5.75 ug/ml



#12 N-OCTACOSANE

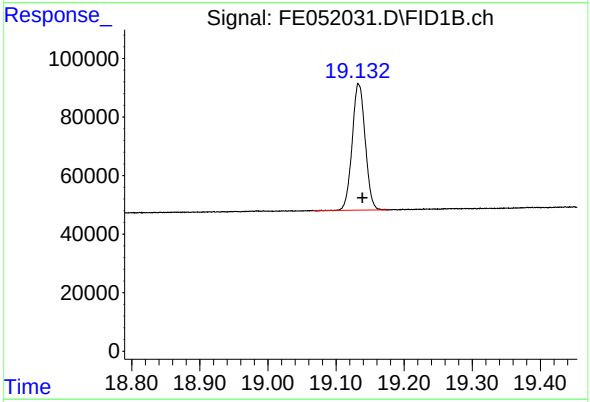
R.T.: 17.418 min
Delta R.T.: -0.006 min
Response: 583549
Conc: 5.79 ug/ml



#13 N-TRIACONTANE

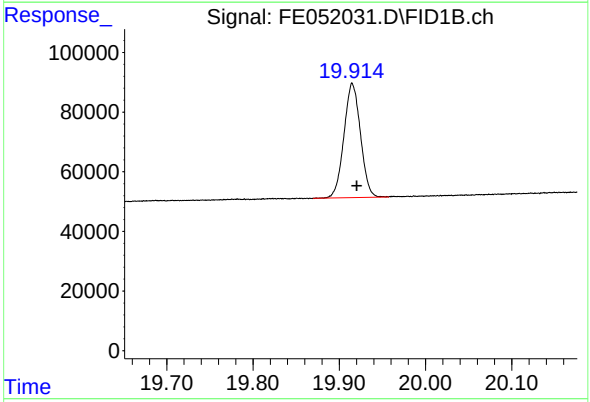
R.T.: 18.303 min
Delta R.T.: -0.005 min
Response: 588228
Conc: 5.91 ug/ml

Instrument :
FID_E
ClientSampleId :
5 TRPH STD



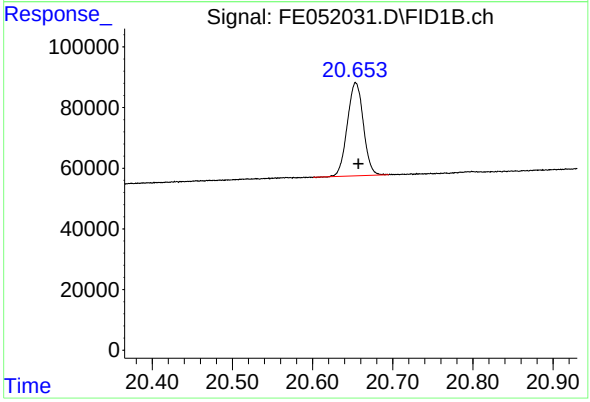
#14 N-DOTRIACONTANE

R.T.: 19.133 min
Delta R.T.: -0.006 min
Response: 573000
Conc: 5.93 ug/ml



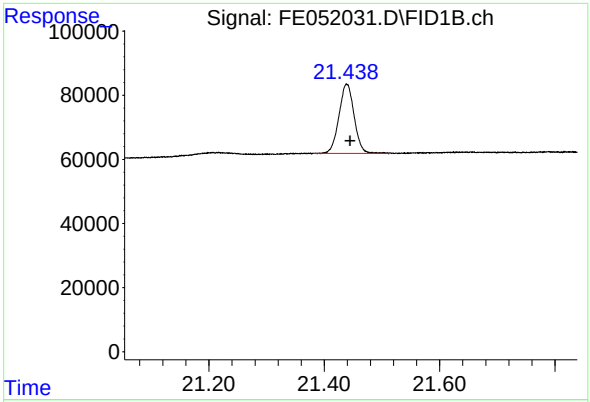
#15 N-TETRATRIACONTANE

R.T.: 19.915 min
Delta R.T.: -0.005 min
Response: 509659
Conc: 5.87 ug/ml



#16 N-HEXATRIACONTANE

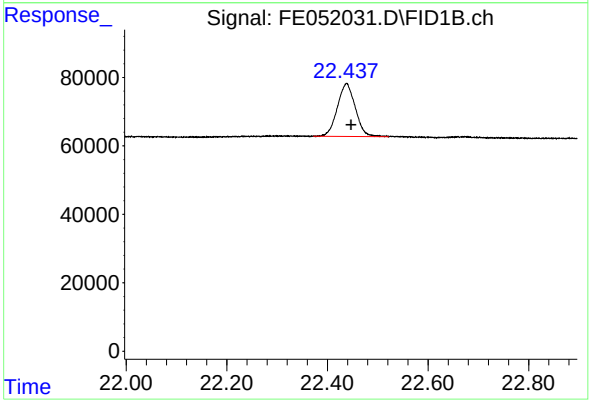
R.T.: 20.654 min
Delta R.T.: -0.004 min
Response: 427588
Conc: 5.74 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.439 min
Delta R.T.: -0.006 min
Response: 394101
Conc: 5.72 ug/ml

Instrument :
FID_E
ClientSampleId :
5 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.438 min
Delta R.T.: -0.009 min
Response: 382667
Conc: 5.69 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052031.D
Signal(s) : FID1B.ch
Acq On : 24 Jan 2025 00:36
Sample : 5 TRPH STD
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.412	2.380	2.477	BB	34060	447517	74.59%	4.697%
2	4.906	4.868	4.948	BB	50588	479458	79.92%	5.032%
3	7.033	6.997	7.086	BB	55038	524622	87.44%	5.506%
4	8.839	8.809	8.900	BB	53958	538294	89.72%	5.650%
5	10.432	10.391	10.483	BB	53629	566935	94.50%	5.950%
6	11.864	11.825	11.911	BB	55566	597723	99.63%	6.273%
7	13.166	13.127	13.215	BB	53796	599565	99.93%	6.293%
8	14.358	14.319	14.406	BB	51982	599958	100.00%	6.297%
9	15.253	15.220	15.311	BB	41765	535796	89.31%	5.623%
10	15.456	15.423	15.492	BB	49424	594003	99.01%	6.234%
11	16.473	16.428	16.522	BB	49428	585191	97.54%	6.142%
12	17.418	17.370	17.474	BB	46813	583549	97.26%	6.125%
13	18.303	18.261	18.353	BB	44585	588228	98.04%	6.174%
14	19.133	19.066	19.177	BB	42966	573000	95.51%	6.014%
15	19.915	19.870	19.957	BB	38416	509659	84.95%	5.349%
16	20.654	20.601	20.695	BB	30739	427588	71.27%	4.488%
17	21.439	21.381	21.511	BB	21574	394101	65.69%	4.136%
18	22.438	22.371	22.521	BB	15521	382667	63.78%	4.016%
			Sum of corrected areas:			9527854		

FE012325.M Fri Jan 24 03:20:00 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052032.D
Signal(s) : FID1B.ch
Acq On : 24 Jan 2025 01:06
Operator : YP\AJ
Sample : FE012325ICV
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
FE012325ICV

Integration File: autoint1.e
Quant Time: Jan 24 03:09:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	15.256	4666211	46.850 ug/ml
	Target Compounds			
1)	N-OCTANE	2.412	3991003	46.799 ug/ml
2)	N-DECANE	4.906	4296957	46.959 ug/ml
3)	N-DODECANE	7.035	4687706	46.917 ug/ml
4)	N-TETRADECANE	8.841	4758083	46.764 ug/ml
5)	N-HEXADECANE	10.434	4984676	46.779 ug/ml
6)	N-OCTADECANE	11.868	5255597	46.874 ug/ml
7)	N-EICOSANE	13.169	5213798	46.811 ug/ml
8)	N-DOCOSANE	14.361	5190938	46.752 ug/ml
10)	N-TETRACOSANE	15.459	5183378	46.861 ug/ml
11)	N-HEXACOSANE	16.476	5097911	46.766 ug/ml
12)	N-OCTACOSANE	17.423	5031236	46.612 ug/ml
13)	N-TRIACONTANE	18.307	4962414	46.248 ug/ml
14)	N-DOTRIACONTANE	19.138	4809025	46.056 ug/ml
15)	N-TETRATRIACONTANE	19.918	4322160	46.027 ug/ml
16)	N-HEXATRIACONTANE	20.656	3695277	45.760 ug/ml
17)	N-OCTATRIACONTANE	21.442	3418238	45.815 ug/ml
18)	N-TETRACONTANE	22.445	3353522	45.536 ug/ml

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

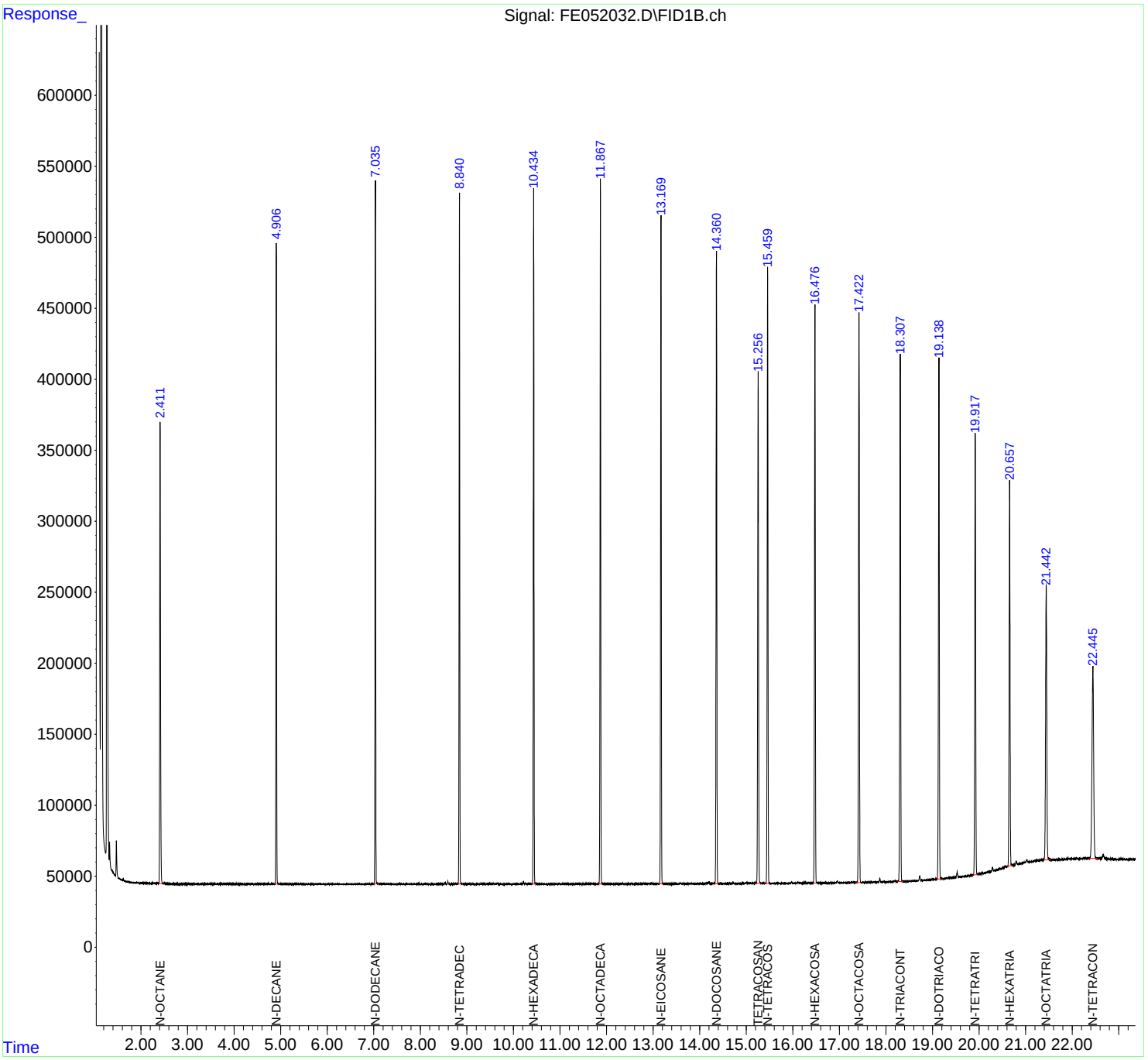
Quantitation Report (QT Reviewed)

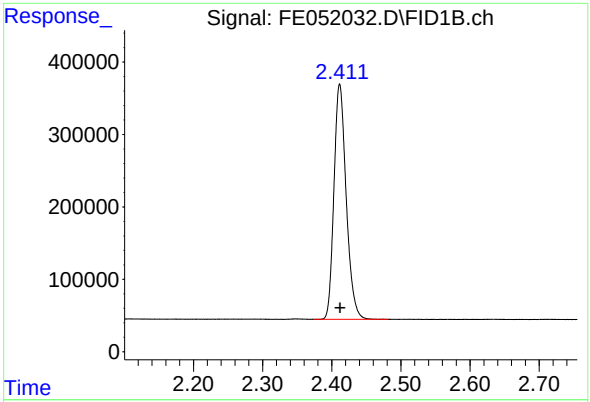
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052032.D
Signal(s) : FID1B.ch
Acq On : 24 Jan 2025 01:06
Operator : YP\AJ
Sample : FE012325ICV
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
FE012325ICV

Integration File: autoint1.e
Quant Time: Jan 24 03:09:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

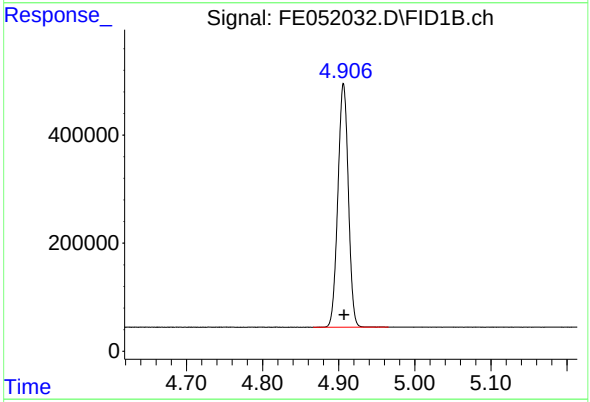




#1 N-OCTANE

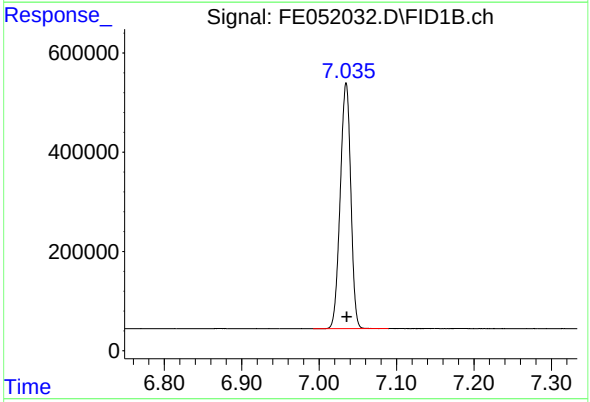
R.T.: 2.412 min
Delta R.T.: 0.000 min
Response: 3991003
Conc: 46.80 ug/ml

Instrument :
FID_E
ClientSampleId :
FE012325ICV



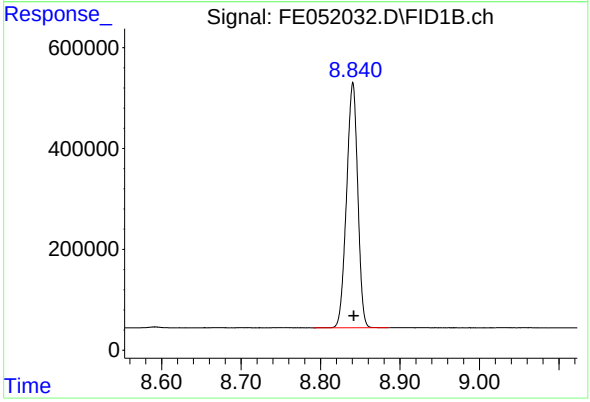
#2 N-DECANE

R.T.: 4.906 min
Delta R.T.: 0.000 min
Response: 4296957
Conc: 46.96 ug/ml



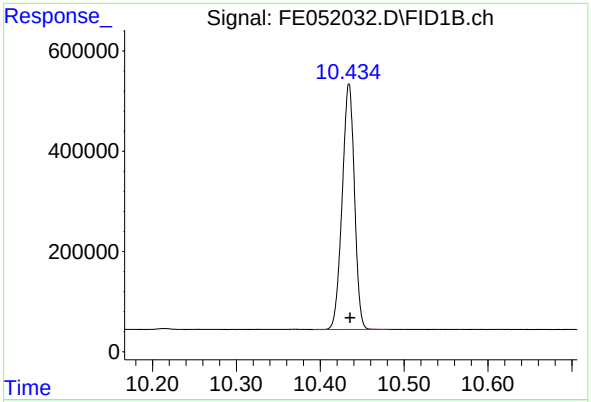
#3 N-DODECANE

R.T.: 7.035 min
Delta R.T.: 0.000 min
Response: 4687706
Conc: 46.92 ug/ml



#4 N-TETRADECANE

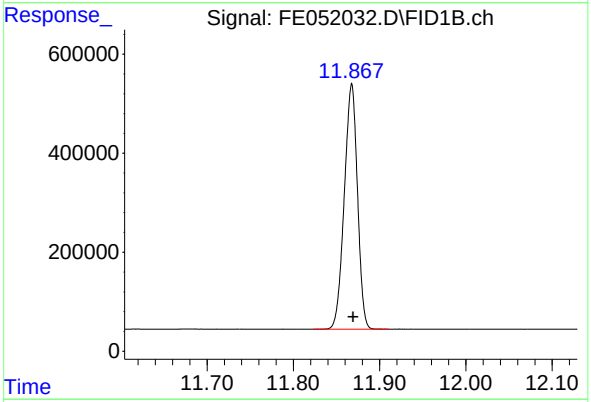
R.T.: 8.841 min
Delta R.T.: -0.001 min
Response: 4758083
Conc: 46.76 ug/ml



#5 N-HEXADECANE

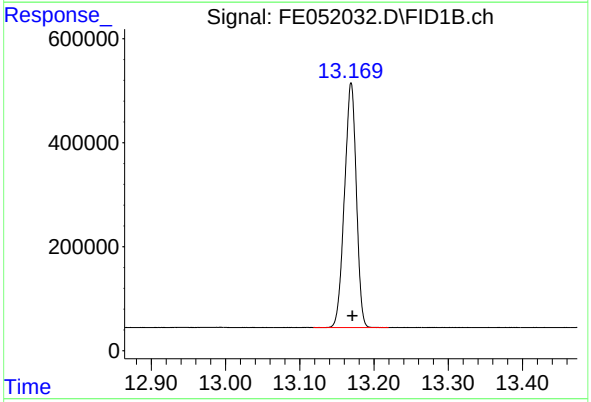
R.T.: 10.434 min
Delta R.T.: -0.001 min
Response: 4984676
Conc: 46.78 ug/ml

Instrument :
FID_E
ClientSampleId :
FE012325ICV



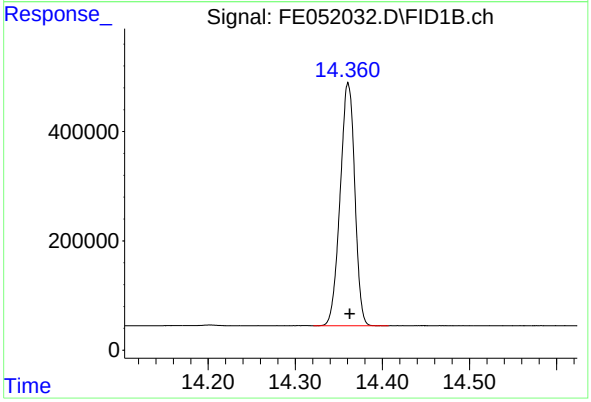
#6 N-OCTADECANE

R.T.: 11.868 min
Delta R.T.: -0.001 min
Response: 5255597
Conc: 46.87 ug/ml



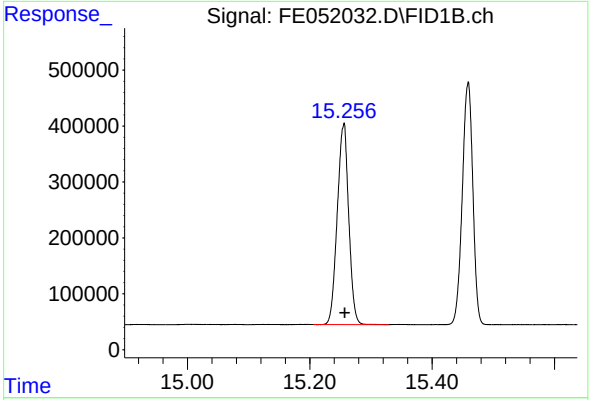
#7 N-EICOSANE

R.T.: 13.169 min
Delta R.T.: -0.002 min
Response: 5213798
Conc: 46.81 ug/ml



#8 N-DOCOSANE

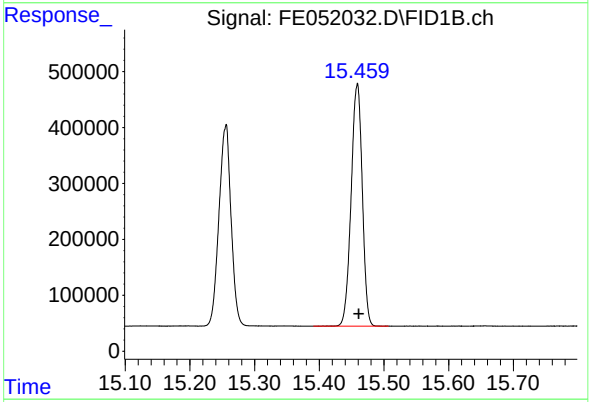
R.T.: 14.361 min
Delta R.T.: -0.002 min
Response: 5190938
Conc: 46.75 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

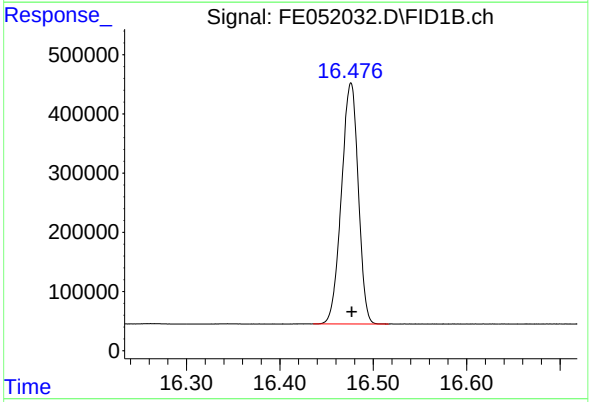
R.T.: 15.256 min
Delta R.T.: -0.001 min
Response: 4666211
Conc: 46.85 ug/ml

Instrument :
FID_E
ClientSampleId :
FE012325ICV



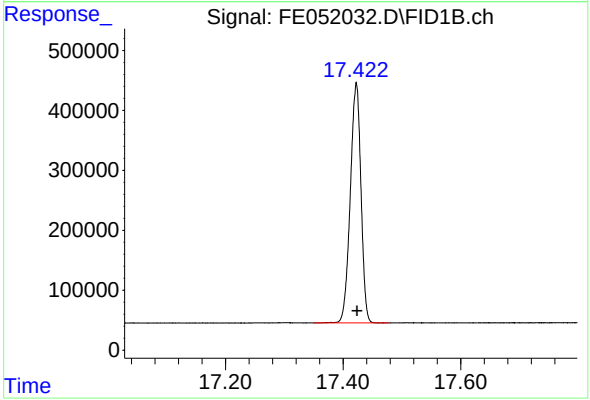
#10 N-TETRACOSANE

R.T.: 15.459 min
Delta R.T.: -0.002 min
Response: 5183378
Conc: 46.86 ug/ml



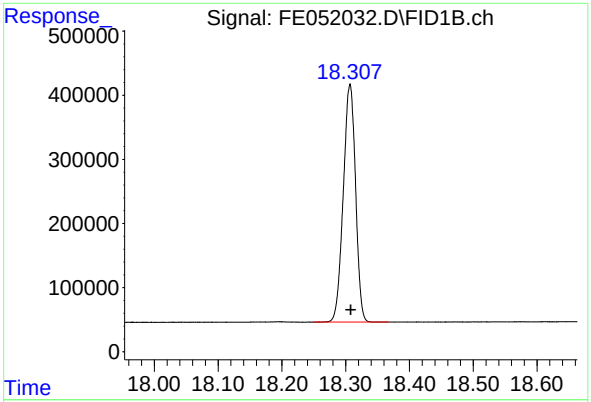
#11 N-HEXACOSANE

R.T.: 16.476 min
Delta R.T.: 0.000 min
Response: 5097911
Conc: 46.77 ug/ml



#12 N-OCTACOSANE

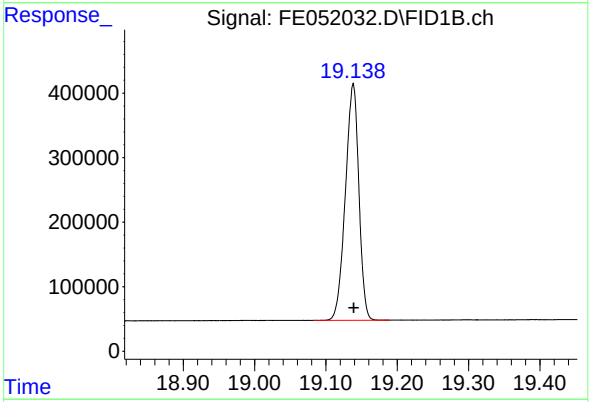
R.T.: 17.423 min
Delta R.T.: -0.001 min
Response: 5031236
Conc: 46.61 ug/ml



#13 N-TRIACONTANE

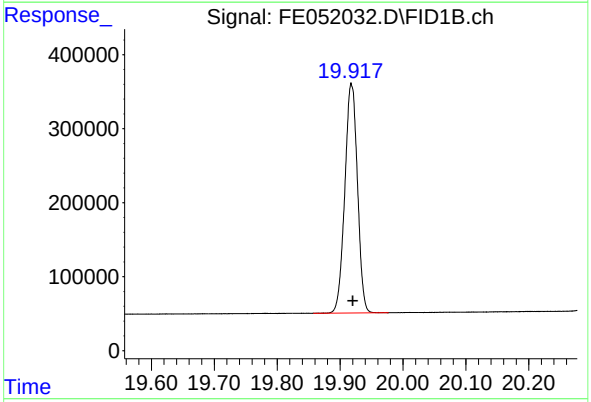
R.T.: 18.307 min
Delta R.T.: -0.001 min
Response: 4962414
Conc: 46.25 ug/ml

Instrument :
FID_E
ClientSampleId :
FE012325ICV



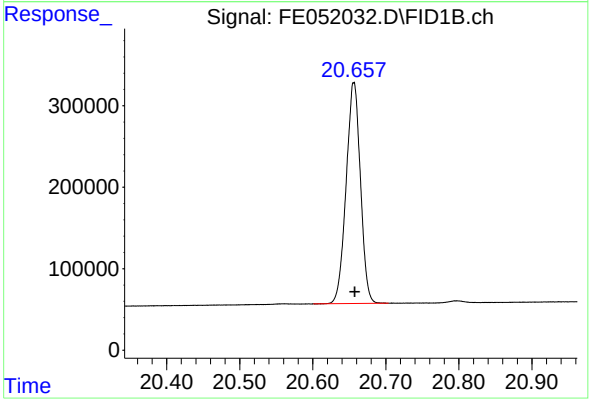
#14 N-DOTRIACONTANE

R.T.: 19.138 min
Delta R.T.: 0.000 min
Response: 4809025
Conc: 46.06 ug/ml



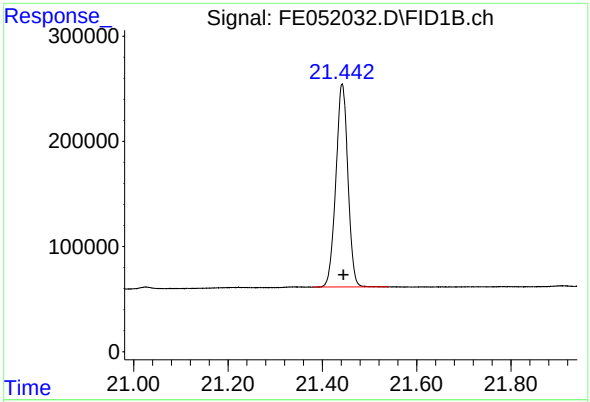
#15 N-TETRATRIACONTANE

R.T.: 19.918 min
Delta R.T.: -0.002 min
Response: 4322160
Conc: 46.03 ug/ml



#16 N-HEXATRIACONTANE

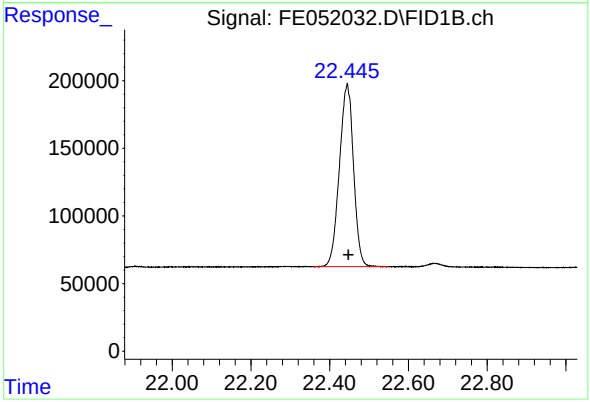
R.T.: 20.656 min
Delta R.T.: -0.001 min
Response: 3695277
Conc: 45.76 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.442 min
Delta R.T.: -0.003 min
Response: 3418238
Conc: 45.81 ug/ml

Instrument :
FID_E
ClientSampleId :
FE012325ICV



#18 N-TETRACONTANE

R.T.: 22.445 min
Delta R.T.: -0.003 min
Response: 3353522
Conc: 45.54 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE012325\
Data File : FE052032.D
Signal(s) : FID1B.ch
Acq On : 24 Jan 2025 01:06
Sample : FE012325ICV
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.412	2.373	2.482	BB	325149	3991003	75.94%	4.813%
2	4.906	4.866	4.966	BB	450862	4296957	81.76%	5.182%
3	7.035	6.992	7.090	BB	495564	4687706	89.19%	5.653%
4	8.841	8.791	8.886	BB	486321	4758083	90.53%	5.738%
5	10.434	10.391	10.481	BB	490371	4984676	94.85%	6.012%
6	11.868	11.823	11.911	BB	496666	5255597	100.00%	6.338%
7	13.169	13.118	13.220	BB	470899	5213798	99.20%	6.288%
8	14.361	14.321	14.407	BB	444530	5190938	98.77%	6.260%
9	15.256	15.206	15.329	BB	358694	4666211	88.79%	5.627%
10	15.459	15.391	15.507	BB	433536	5183378	98.63%	6.251%
11	16.476	16.436	16.516	BB	407354	5097911	97.00%	6.148%
12	17.423	17.349	17.477	BB	400863	5031236	95.73%	6.068%
13	18.307	18.249	18.367	BB	371955	4962414	94.42%	5.985%
14	19.138	19.082	19.188	BB	366172	4809025	91.50%	5.800%
15	19.918	19.857	19.977	BB	309597	4322160	82.24%	5.213%
16	20.656	20.601	20.704	BB	270798	3695277	70.31%	4.457%
17	21.442	21.381	21.541	BB	193087	3418238	65.04%	4.122%
18	22.445	22.358	22.550	BB	135556	3353522	63.81%	4.044%
			Sum of corrected areas:			82918129		

FE012325.M Fri Jan 24 03:20:42 2025

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: RUTW01

ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Lab Code: CHEM Case No.: Q1241 SAS No.: Q1241 SDG No.: Q1241

DataFile: FE052168.D Analyst Name: YP\AJ Analyst Date: 01-31-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	48882662	97765	106182	7.927

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052168.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 10:26
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Feb 03 00:07:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	15.275	4578853	45.973 ug/ml
	Target Compounds			
2)	N-DECANE	4.934	4273136	46.699 ug/ml
3)	N-DODECANE	7.061	4628141	46.321 ug/ml
4)	N-TETRADECANE	8.865	4676456	45.961 ug/ml
5)	N-HEXADECANE	10.457	4890327	45.893 ug/ml
6)	N-OCTADECANE	11.889	5152055	45.951 ug/ml
7)	N-EICOSANE	13.190	5111168	45.890 ug/ml
8)	N-DOCOSANE	14.381	5088936	45.834 ug/ml
10)	N-TETRACOSANE	15.479	5083452	45.958 ug/ml
11)	N-HEXACOSANE	16.494	5012750	45.984 ug/ml
12)	N-OCTACOSANE	17.440	4966241	46.010 ug/ml

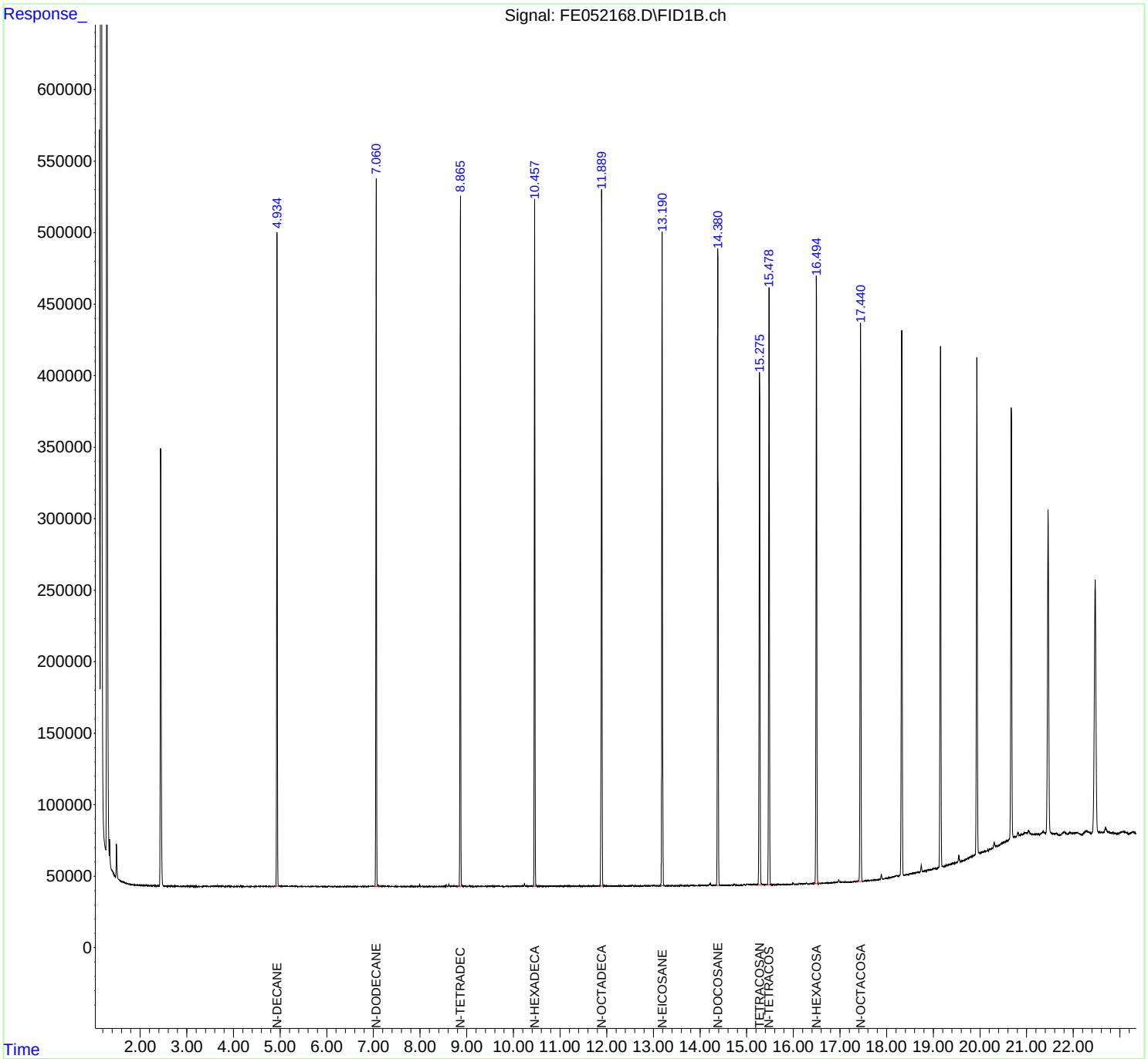
(f)=RT Delta > 1/2 Window (m)=manual int.

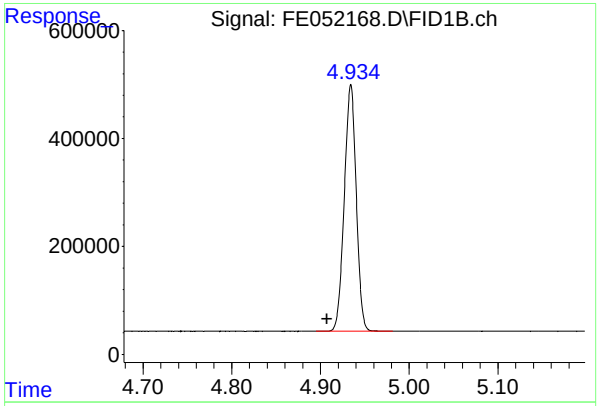
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052168.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 10:26
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Feb 03 00:07:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

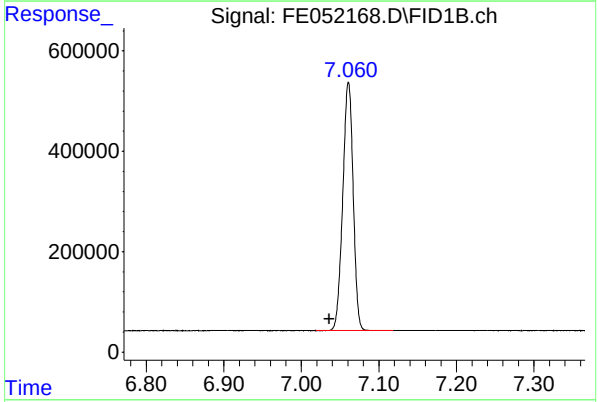




#2 N-DECANE

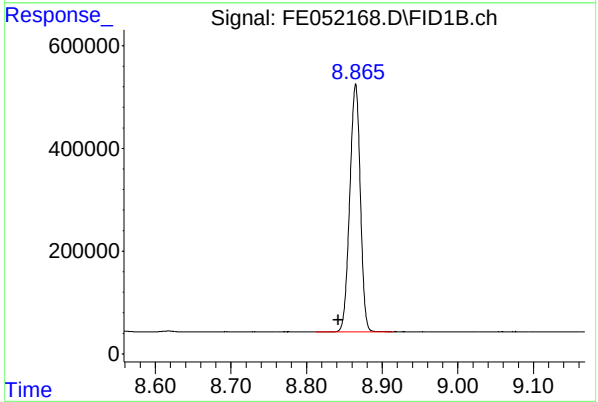
R.T.: 4.934 min
Delta R.T.: 0.027 min
Response: 4273136
Conc: 46.70 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD



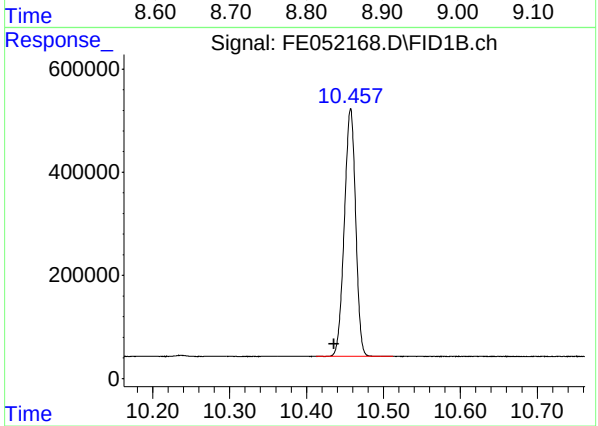
#3 N-DODECANE

R.T.: 7.061 min
Delta R.T.: 0.025 min
Response: 4628141
Conc: 46.32 ug/ml



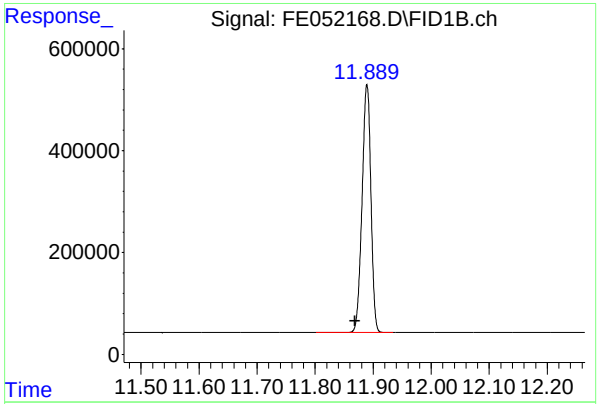
#4 N-TETRADECANE

R.T.: 8.865 min
Delta R.T.: 0.023 min
Response: 4676456
Conc: 45.96 ug/ml



#5 N-HEXADECANE

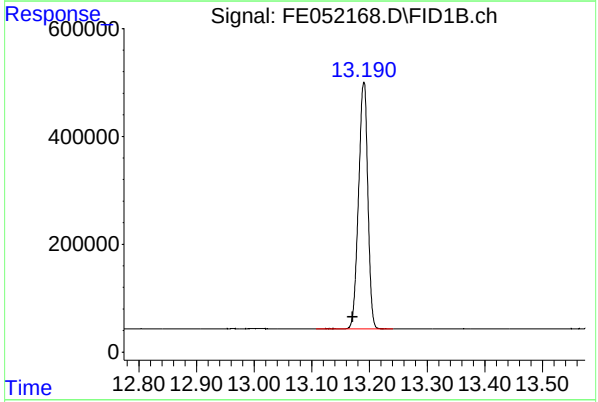
R.T.: 10.457 min
Delta R.T.: 0.022 min
Response: 4890327
Conc: 45.89 ug/ml



#6 N-OCTADECANE

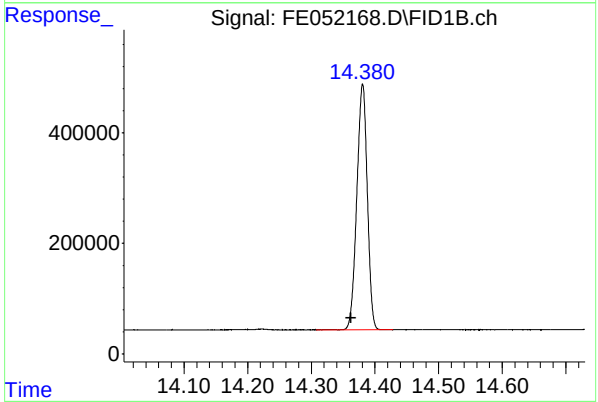
R.T.: 11.889 min
Delta R.T.: 0.020 min
Response: 5152055
Conc: 45.95 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD



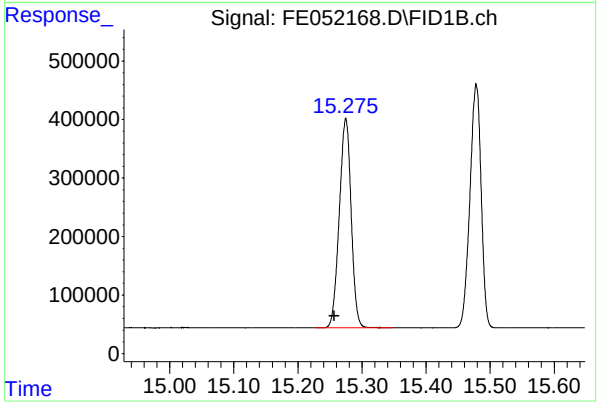
#7 N-EICOSANE

R.T.: 13.190 min
Delta R.T.: 0.019 min
Response: 5111168
Conc: 45.89 ug/ml



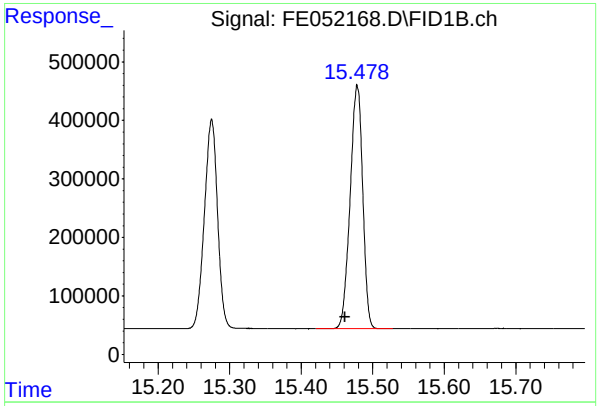
#8 N-DOCOSANE

R.T.: 14.381 min
Delta R.T.: 0.018 min
Response: 5088936
Conc: 45.83 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

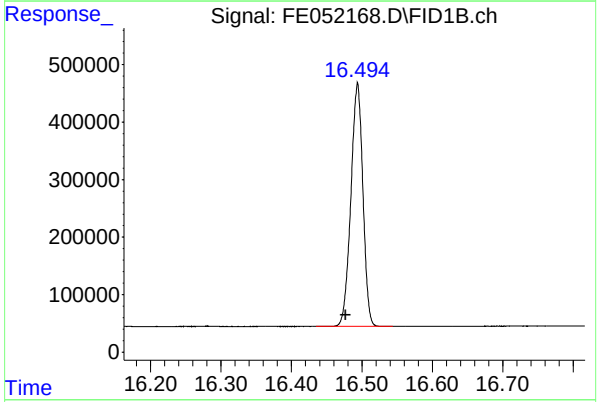
R.T.: 15.275 min
Delta R.T.: 0.018 min
Response: 4578853
Conc: 45.97 ug/ml



#10 N-TETRACOSANE

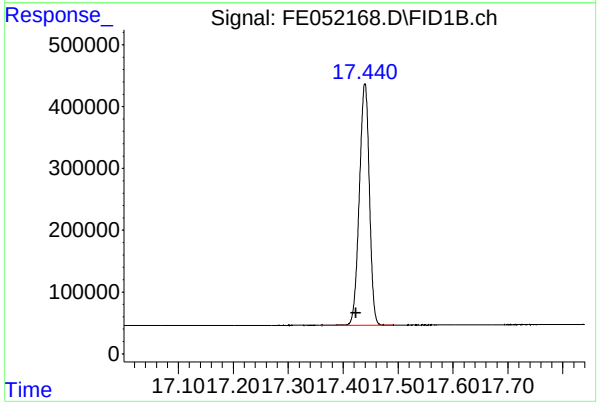
R.T.: 15.479 min
Delta R.T.: 0.017 min
Response: 5083452
Conc: 45.96 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD



#11 N-HEXACOSANE

R.T.: 16.494 min
Delta R.T.: 0.017 min
Response: 5012750
Conc: 45.98 ug/ml



#12 N-OCTACOSANE

R.T.: 17.440 min
Delta R.T.: 0.016 min
Response: 4966241
Conc: 46.01 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052168.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 10:26
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.934	4.895	4.982	BB	456654	4273136	82.94%	7.993%
2	7.061	7.019	7.118	BB	494802	4628141	89.83%	8.657%
3	8.865	8.812	8.914	BB	482694	4676456	90.77%	8.747%
4	10.457	10.412	10.512	BB	480202	4890327	94.92%	9.147%
5	11.889	11.802	11.934	BB	485820	5152055	100.00%	9.637%
6	13.190	13.107	13.241	BB	457572	5111168	99.21%	9.560%
7	14.381	14.307	14.428	BB	444784	5088936	98.77%	9.519%
8	15.275	15.228	15.348	BV	358328	4578853	88.87%	8.565%
9	15.479	15.421	15.528	BB	416344	5083452	98.67%	9.509%
10	16.494	16.435	16.544	BB	424362	5012750	97.30%	9.376%
11	17.440	17.351	17.491	BB	389525	4966241	96.39%	9.289%
			Sum of corrected areas:			53461515		

FE012325.M Mon Feb 03 02:02:42 2025

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: RUTW01

ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Lab Code: CHEM Case No.: Q1241 SAS No.: Q1241 SDG No.: Q1241

DataFile: FE052180.D Analyst Name: YP\AJ Analyst Date: 01-31-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	46710313	93421	106182	12.018

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052180.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 16:40
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 03 01:35:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
9)	S TETRACOSANE-d50 (SURR...	15.299	4338284	43.558	ug/mlm
	Target Compounds				
2)	N-DECANE	4.966	4142020	45.266	ug/ml
3)	N-DODECANE	7.091	4467752	44.715	ug/ml
4)	N-TETRADECANE	8.893	4500991	44.237	ug/ml
5)	N-HEXADECANE	10.485	4687325	43.988	ug/ml
6)	N-OCTADECANE	11.916	4920557	43.886	ug/ml
7)	N-EICOSANE	13.216	4863865	43.669	ug/ml
8)	N-DOCOSANE	14.407	4819958	43.411	ug/ml
10)	N-TETRACOSANE	15.504	4835161	43.713	ug/ml
11)	N-HEXACOSANE	16.518	4750373	43.578	ug/ml
12)	N-OCTACOSANE	17.464	4722311	43.750	ug/mlm

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052180.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 16:40
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

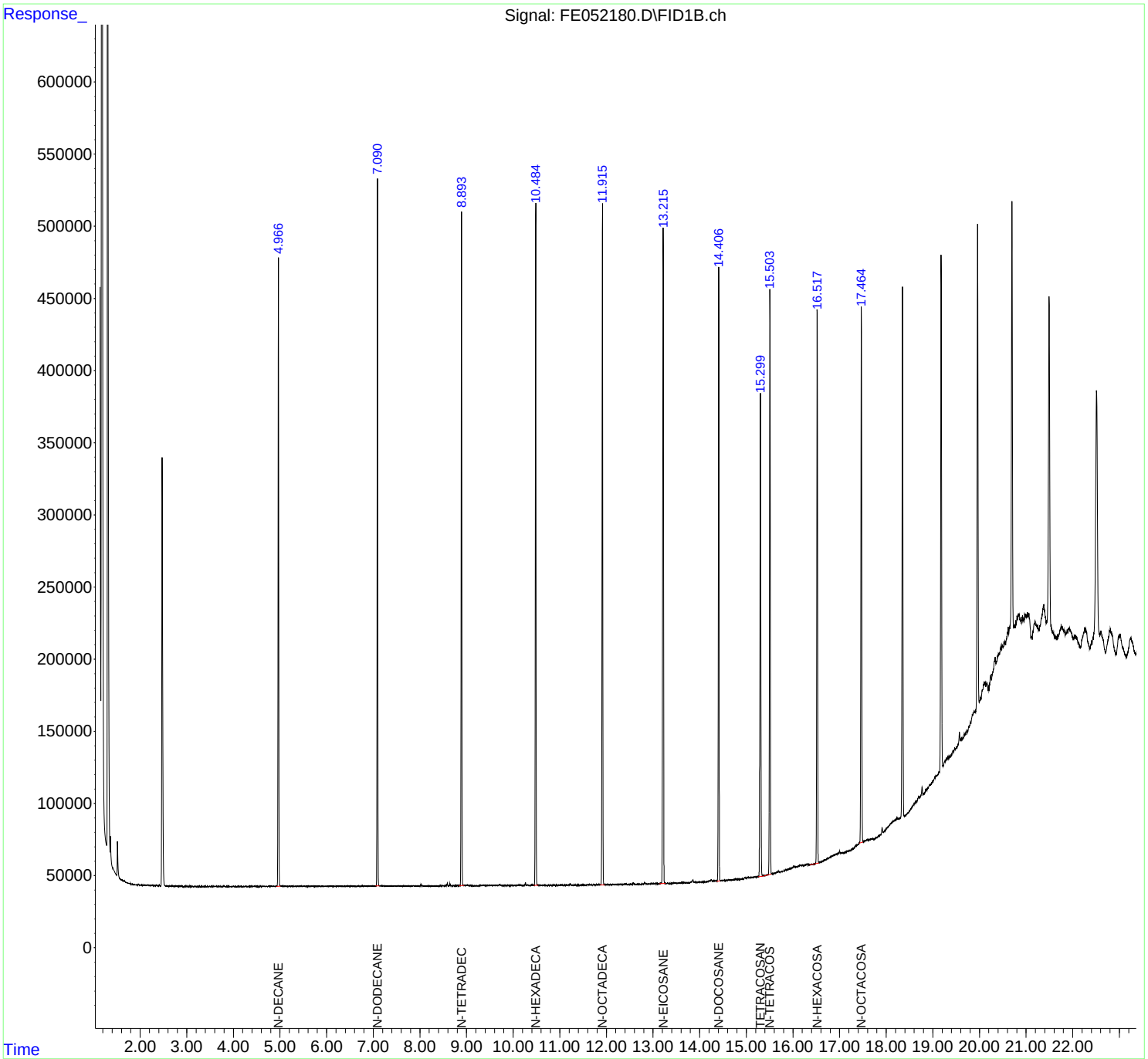
Integration File: autoint1.e
Quant Time: Feb 03 01:35:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

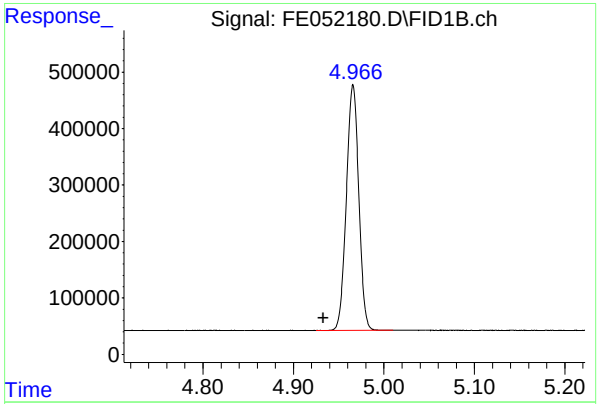
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025





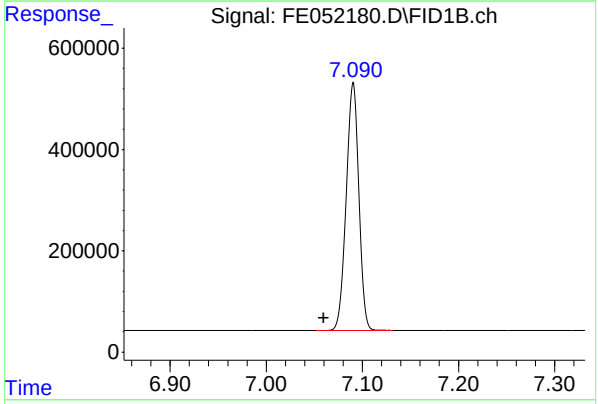
#2 N-DECANE

R.T.: 4.966 min
Delta R.T.: 0.033 min
Response: 4142020
Conc: 45.27 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

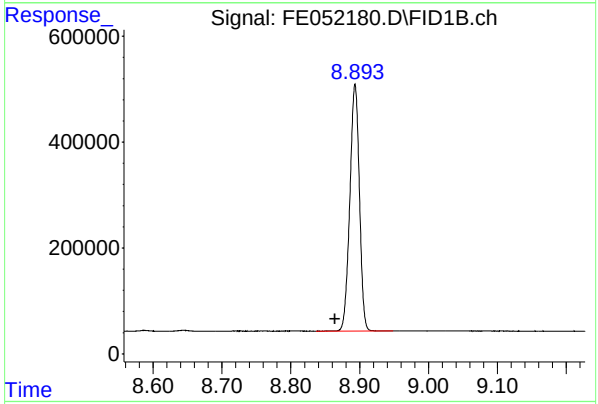
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



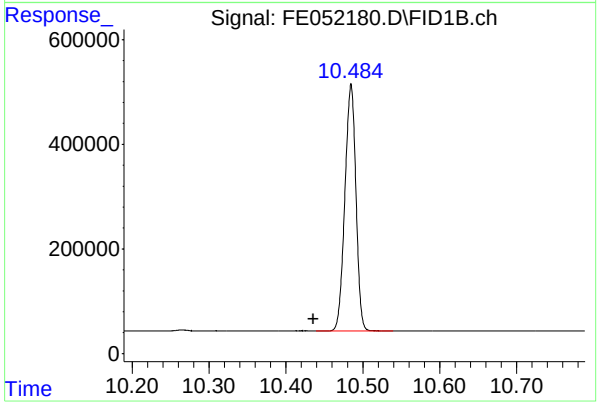
#3 N-DODECANE

R.T.: 7.091 min
Delta R.T.: 0.031 min
Response: 4467752
Conc: 44.72 ug/ml



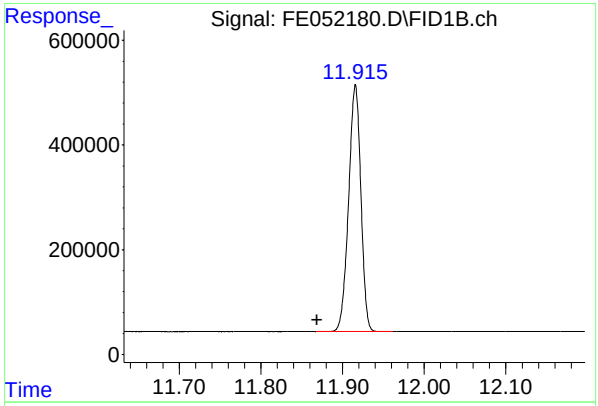
#4 N-TETRADECANE

R.T.: 8.893 min
Delta R.T.: 0.029 min
Response: 4500991
Conc: 44.24 ug/ml



#5 N-HEXADECANE

R.T.: 10.485 min
Delta R.T.: 0.049 min
Response: 4687325
Conc: 43.99 ug/ml



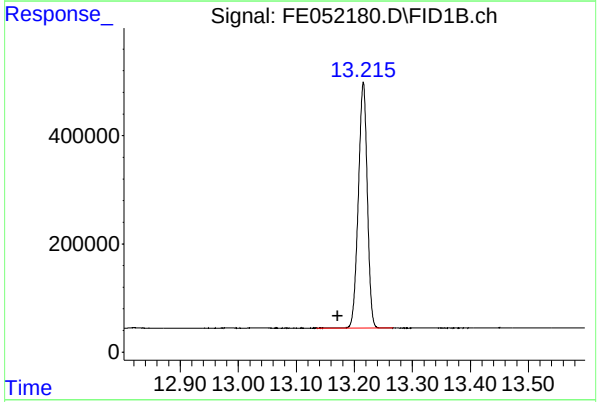
#6 N-OCTADECANE

R.T.: 11.916 min
Delta R.T.: 0.047 min
Response: 4920557
Conc: 43.89 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

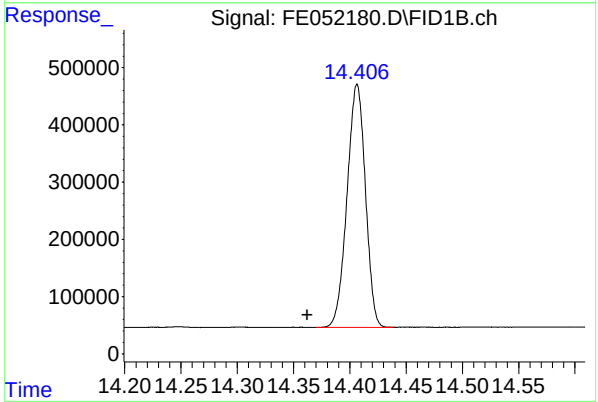
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



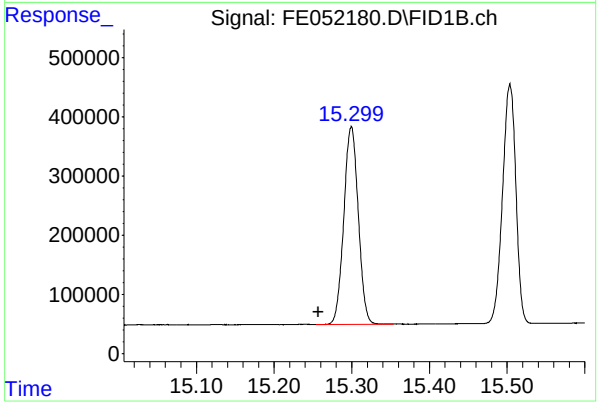
#7 N-EICOSANE

R.T.: 13.216 min
Delta R.T.: 0.045 min
Response: 4863865
Conc: 43.67 ug/ml



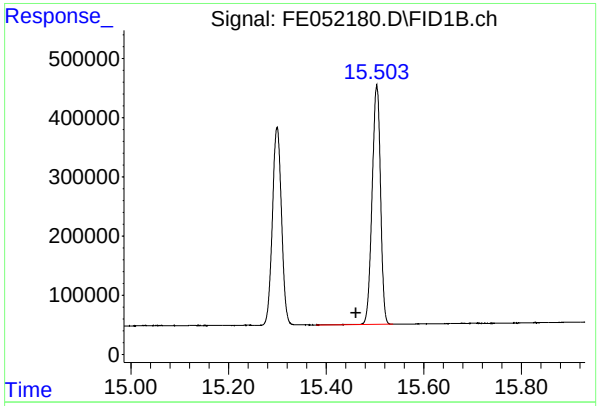
#8 N-DOCOSANE

R.T.: 14.407 min
Delta R.T.: 0.044 min
Response: 4819958
Conc: 43.41 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.299 min
Delta R.T.: 0.042 min
Response: 4338284
Conc: 43.56 ug/ml m



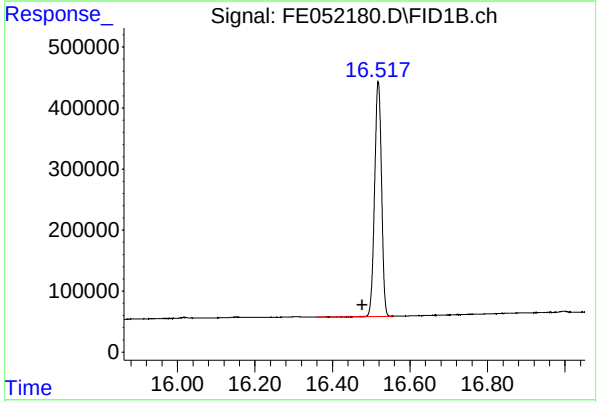
#10 N-TETRACOSANE

R.T.: 15.504 min
Delta R.T.: 0.043 mi
Response: 4835161
Conc: 43.71 ug/m

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

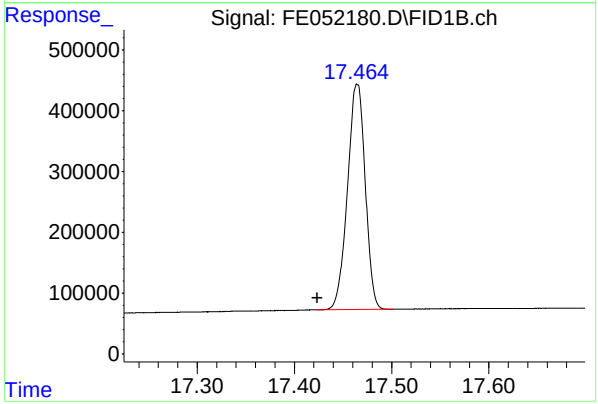
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



#11 N-HEXACOSANE

R.T.: 16.518 min
Delta R.T.: 0.041 min
Response: 4750373
Conc: 43.58 ug/ml



#12 N-OCTACOSANE

R.T.: 17.464 min
Delta R.T.: 0.040 min
Response: 4722311
Conc: 43.75 ug/ml m

rteres

Instrument :
FID_E
LabSampleId :
50 PPM TRPH STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052180.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 16:40
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.966	4.925	5.010	BB	435252	4142020	84.18%	8.108%
2	7.091	7.052	7.132	BB	489980	4467752	90.80%	8.746%
3	8.893	8.837	8.948	BB	466717	4500991	91.47%	8.811%
4	10.485	10.439	10.539	BB	472426	4687325	95.26%	9.176%
5	11.916	11.867	11.962	BB	472102	4920557	100.00%	9.632%
6	13.216	13.134	13.267	BB	454165	4863865	98.85%	9.521%
7	14.407	14.370	14.438	PB	425472	4819958	97.96%	9.435%
8	15.300	15.141	15.375	BB	333995	4340391	88.21%	8.497%
9	15.504	15.379	15.537	BB	404444	4835161	98.26%	9.465%
10	16.518	16.357	16.556	BV	382436	4750373	96.54%	9.299%
11	17.465	17.069	17.499	BV	370977	4754852	96.63%	9.308%
			Sum of corrected areas:			51083244		

FE012325.M Mon Feb 03 02:06:20 2025

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

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: RUTW01

ProjectID: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Lab Code: CHEM Case No.: Q1241 SAS No.: Q1241 SDG No.: Q1241

DataFile: FE052190.D Analyst Name: YP\AJ Analyst Date: 01-31-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	47002499	94005	106182	11.468

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052190.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 22:12
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Feb 03 01:36:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	TETRACOSANE-d50 (SURR...	15.300	4365755	43.833 ug/ml
	Target Compounds			
2)	N-DECANE	4.963	4159030	45.452 ug/ml
3)	N-DODECANE	7.088	4494120	44.979 ug/ml
4)	N-TETRADECANE	8.892	4533699	44.558 ug/ml
5)	N-HEXADECANE	10.483	4731275	44.401 ug/ml
6)	N-OCTADECANE	11.914	4963662	44.270 ug/ml
7)	N-EICOSANE	13.215	4892146	43.923 ug/ml
8)	N-DOCOSANE	14.406	4844018	43.628 ug/ml
10)	N-TETRACOSANE	15.503	4865994	43.992 ug/ml
11)	N-HEXACOSANE	16.518	4778892	43.839 ug/ml
12)	N-OCTACOSANE	17.462	4739663	43.910 ug/mlm

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052190.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 22:12
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

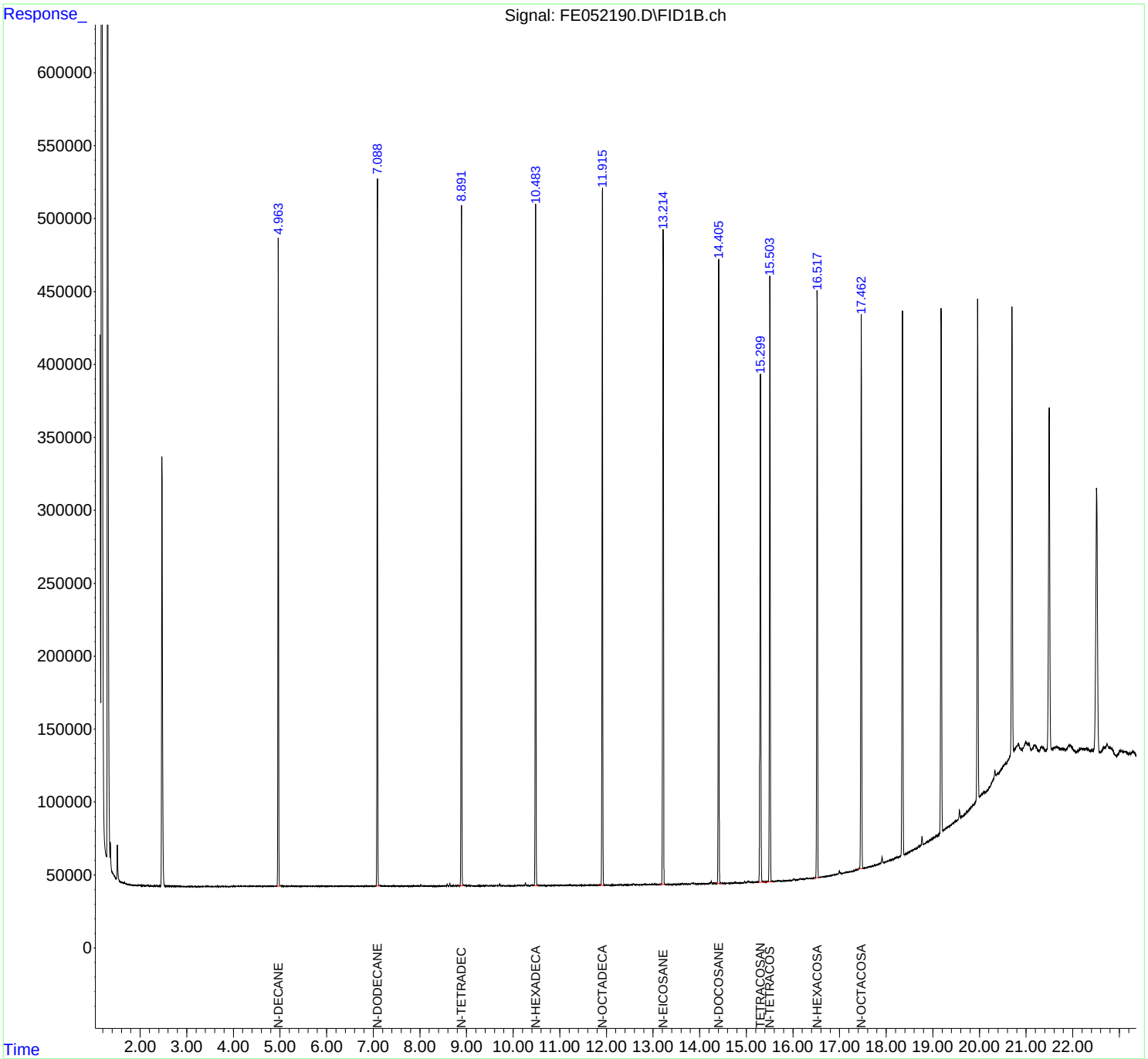
Integration File: autoint1.e
Quant Time: Feb 03 01:36:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

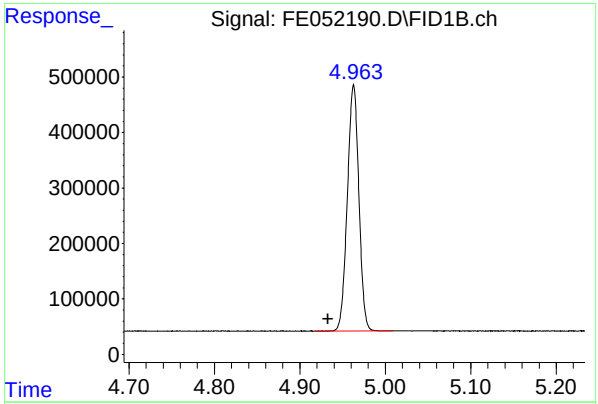
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025





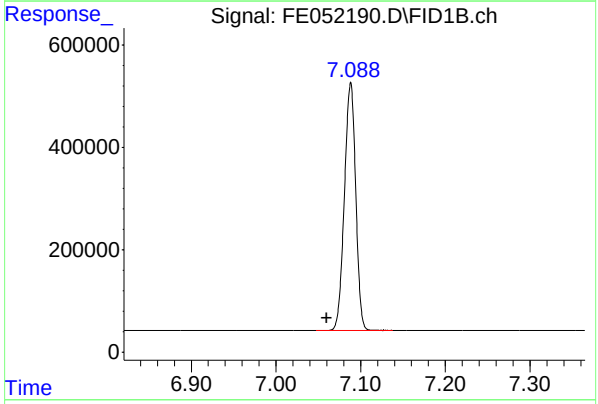
#2 N-DECANE

R.T.: 4.963 min
Delta R.T.: 0.030 min
Response: 4159030
Conc: 45.45 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

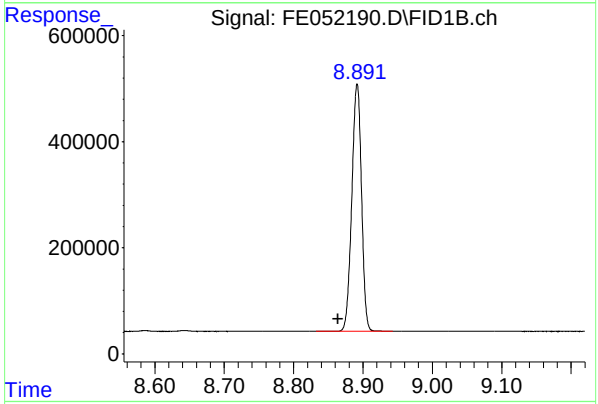
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



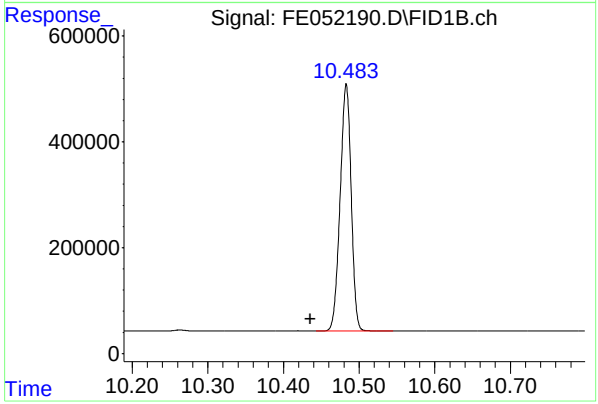
#3 N-DODECANE

R.T.: 7.088 min
Delta R.T.: 0.028 min
Response: 4494120
Conc: 44.98 ug/ml



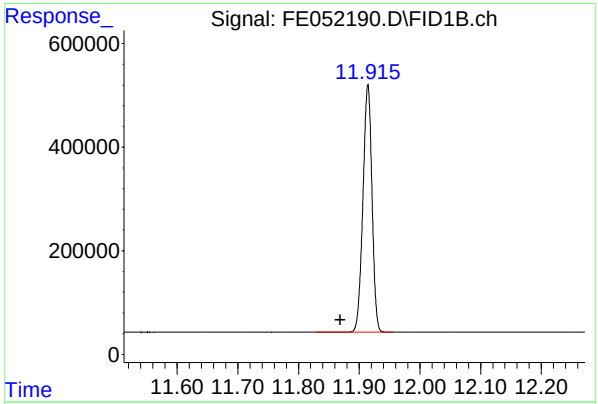
#4 N-TETRADECANE

R.T.: 8.892 min
Delta R.T.: 0.028 min
Response: 4533699
Conc: 44.56 ug/ml



#5 N-HEXADECANE

R.T.: 10.483 min
Delta R.T.: 0.048 min
Response: 4731275
Conc: 44.40 ug/ml



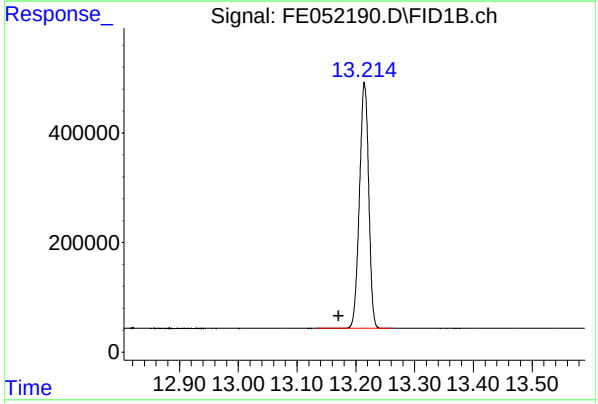
#6 N-OCTADECANE

R.T.: 11.914 min
Delta R.T.: 0.045 min
Response: 4963662
Conc: 44.27 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

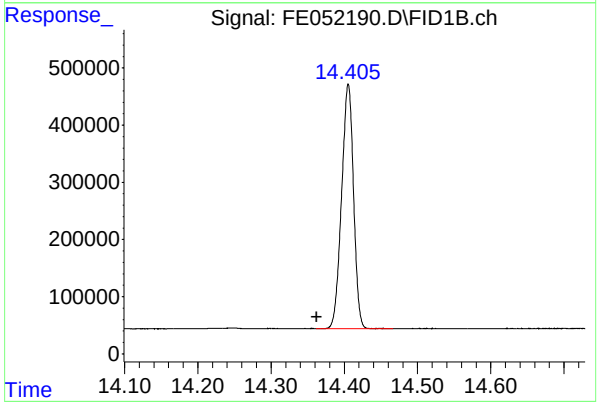
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



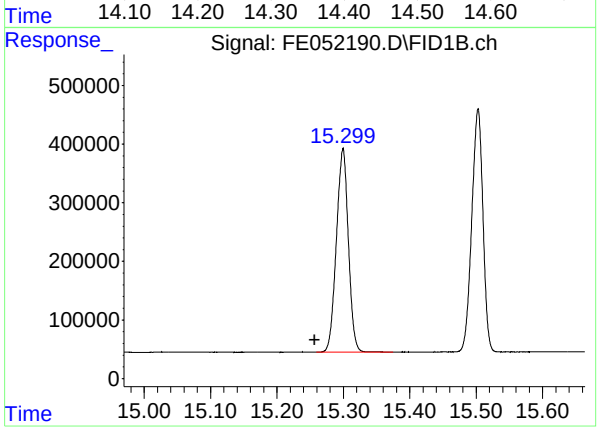
#7 N-EICOSANE

R.T.: 13.215 min
Delta R.T.: 0.044 min
Response: 4892146
Conc: 43.92 ug/ml



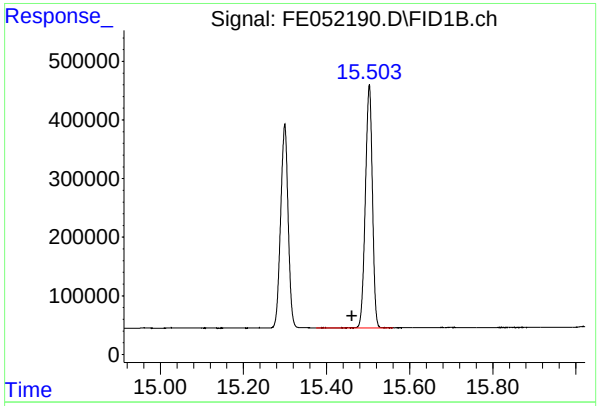
#8 N-DOCOSANE

R.T.: 14.406 min
Delta R.T.: 0.043 min
Response: 4844018
Conc: 43.63 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.300 min
Delta R.T.: 0.043 min
Response: 4365755
Conc: 43.83 ug/ml



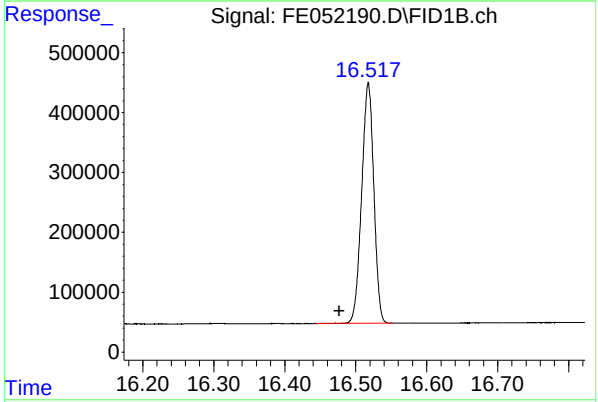
#10 N-TETRACOSANE

R.T.: 15.503 min
Delta R.T.: 0.042 mi
Response: 4865994
Conc: 43.99 ug/m

Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

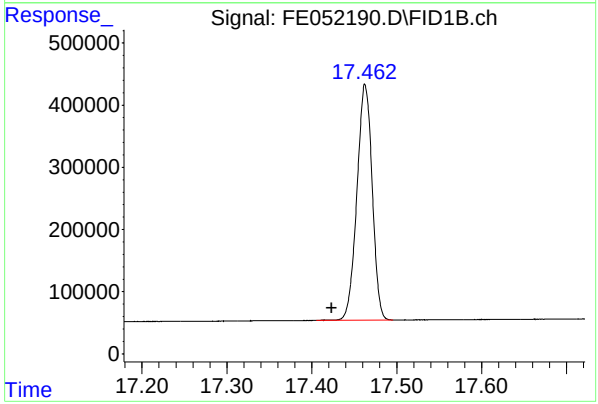
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



#11 N-HEXACOSANE

R.T.: 16.518 min
Delta R.T.: 0.041 min
Response: 4778892
Conc: 43.84 ug/ml



#12 N-OCTACOSANE

R.T.: 17.462 min
Delta R.T.: 0.038 min
Response: 4739663
Conc: 43.91 ug/ml m

Instrument :
FID_E
LabSampleId :
50 PPM TRPH STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052190.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 22:12
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.963	4.919	5.009	BB	444623	4159030	83.79%	8.099%
2	7.088	7.047	7.138	BB	484231	4494120	90.54%	8.751%
3	8.892	8.832	8.943	BB	466689	4533699	91.34%	8.828%
4	10.483	10.443	10.545	BB	467195	4731275	95.32%	9.213%
5	11.914	11.829	11.956	BV	478751	4963662	100.00%	9.665%
6	13.215	13.132	13.263	BB	447007	4892146	98.56%	9.526%
7	14.406	14.361	14.466	BB	427712	4844018	97.59%	9.432%
8	15.300	15.259	15.375	BV	348585	4365755	87.95%	8.501%
9	15.503	15.375	15.560	PB	415200	4865994	98.03%	9.475%
10	16.518	16.444	16.552	BB	402585	4778892	96.28%	9.306%
11	17.463	17.044	17.501	BB	378377	4726578	95.22%	9.204%
			Sum of corrected areas:			51355168		

FE012325.M Mon Feb 03 02:07:35 2025

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

Analytical Sequence

Client: RU2 Engineering, LLC **SDG No.:** Q1241

Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR **Instrument ID:** FID_E

GC Column: RXI-1MS **ID:** 0.18 **(mm)**

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SUROGATE RT FROM INITIAL CALIBRATION **15.2554**

EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	31 Jan 2025 09:56	FE052167.D	15.274	
50 PPM TRPH STD	50 PPM TRPH STD	31 Jan 2025 10:26	FE052168.D	15.275	
PB166415BL	PB166415BL	31 Jan 2025 12:08	FE052171.D	15.271	
PB166415BS	PB166415BS	31 Jan 2025 12:38	FE052172.D	15.270	
PIBLK02	I.BLK02	31 Jan 2025 16:09	FE052179.D	15.300	
50 PPM TRPH STD	50 PPM TRPH STD	31 Jan 2025 16:40	FE052180.D	15.300	
JPP-5.3-013025MS	Q1241-05MS	31 Jan 2025 17:10	FE052181.D	15.243	
JPP-5.3-013025MSD	Q1241-05MSD	31 Jan 2025 17:40	FE052182.D	15.248	
JPP-3.5-013025	Q1241-01	31 Jan 2025 18:11	FE052183.D	15.234	
JPP-5.3-013025	Q1241-05	31 Jan 2025 18:41	FE052184.D	15.234	
JPP-5.2-013025	Q1241-09	31 Jan 2025 19:11	FE052185.D	15.232	
JPP-5.4-013025	Q1241-13	31 Jan 2025 19:41	FE052186.D	15.232	
JPP-51.4-013025	Q1241-17	31 Jan 2025 20:12	FE052187.D	15.231	
PIBLK03	I.BLK03	31 Jan 2025 21:12	FE052189.D	15.299	
50 PPM TRPH STD	50 PPM TRPH STD	31 Jan 2025 22:12	FE052190.D	15.300	

 # Column used to flag RT values with an * values outside of QC limits

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	15.1554	15.3554

QC SAMPLE DATA

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166415BL	SDG No.:	Q1241
Lab Sample ID:	PB166415BL	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052171.D	1	01/31/25 08:50	01/31/25 12:08	PB166415

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1670	U	185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	17.4		37 - 130	87%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance 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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052171.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 12:08
Operator : YP\AJ
Sample : PB166415BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB166415BL

Integration File: autoint1.e
Quant Time: Feb 03 00:08:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.271	1729476	17.364 ug/ml
Target Compounds			

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

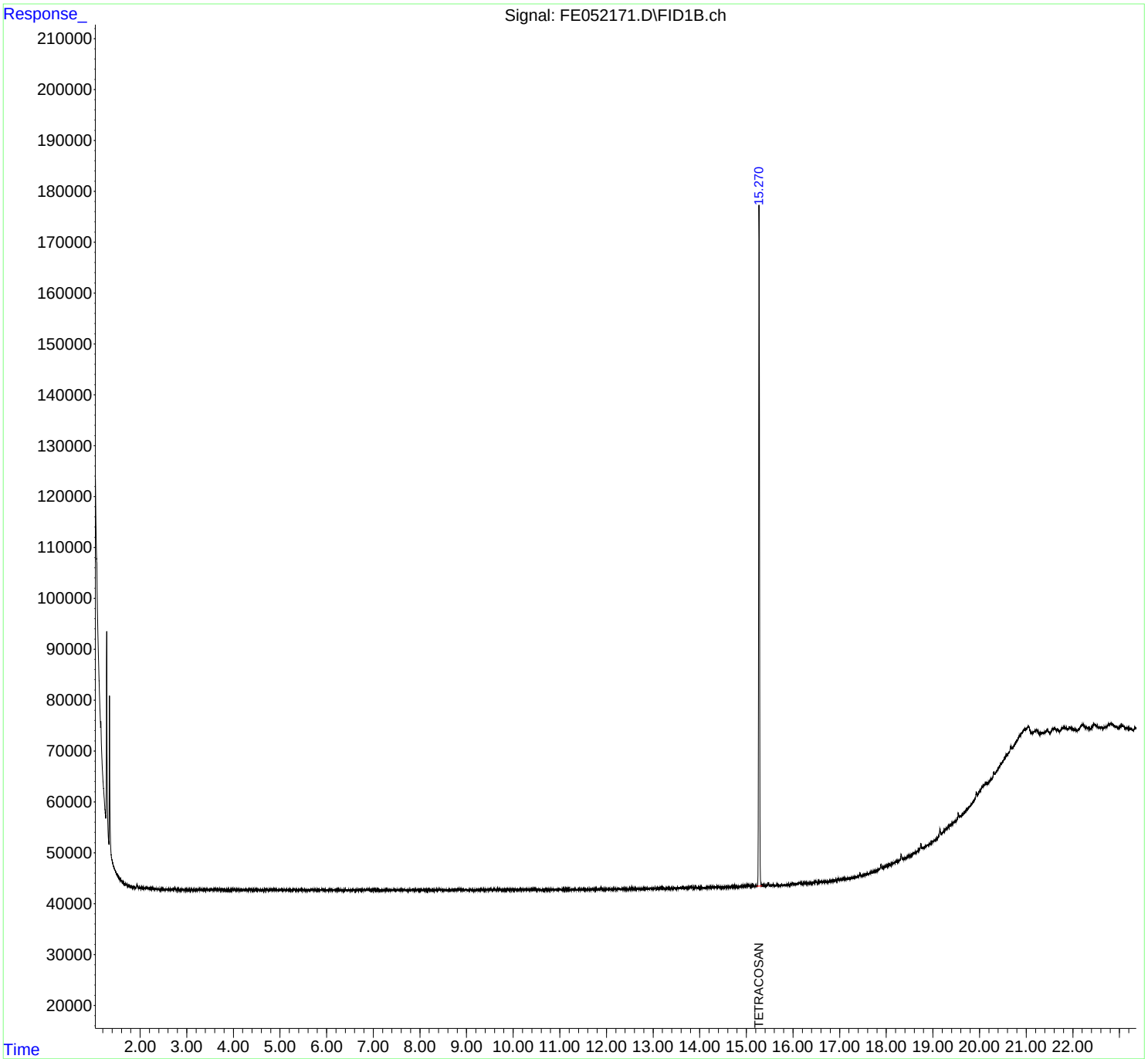
Quantitation Report (QT Reviewed)

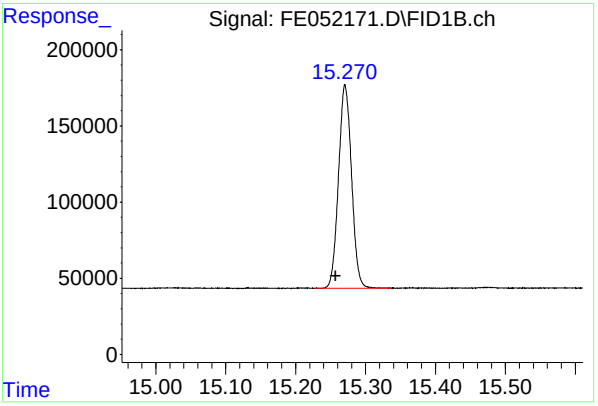
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052171.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 12:08
Operator : YP\AJ
Sample : PB166415BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB166415BL

Integration File: autoint1.e
Quant Time: Feb 03 00:08:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.271 min
Delta R.T.: 0.014 mi
Response: 1729476
Conc: 17.36 ug/m

Instrument :
FID_E
ClientSampleId :
PB166415BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052171.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 12:08
Sample : PB166415BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.271	15.227	15.337	BB	133669	1729476	100.00%	100.000%

Sum of corrected areas: 1729476

FE012325.M Mon Feb 03 02:04:36 2025

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-FE052167.D	SDG No.:	Q1241
Lab Sample ID:	I.BLK-FE052167.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052167.D	1		01/31/25	FE013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	50.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.1		29 - 130	90%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance 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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052167.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 09:56
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 98 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 03 00:07:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_E
ClientSampleId :
I.BLK

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.273	1801068	18.083 ug/mlm
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052167.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 09:56
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 98 Sample Multiplier: 1

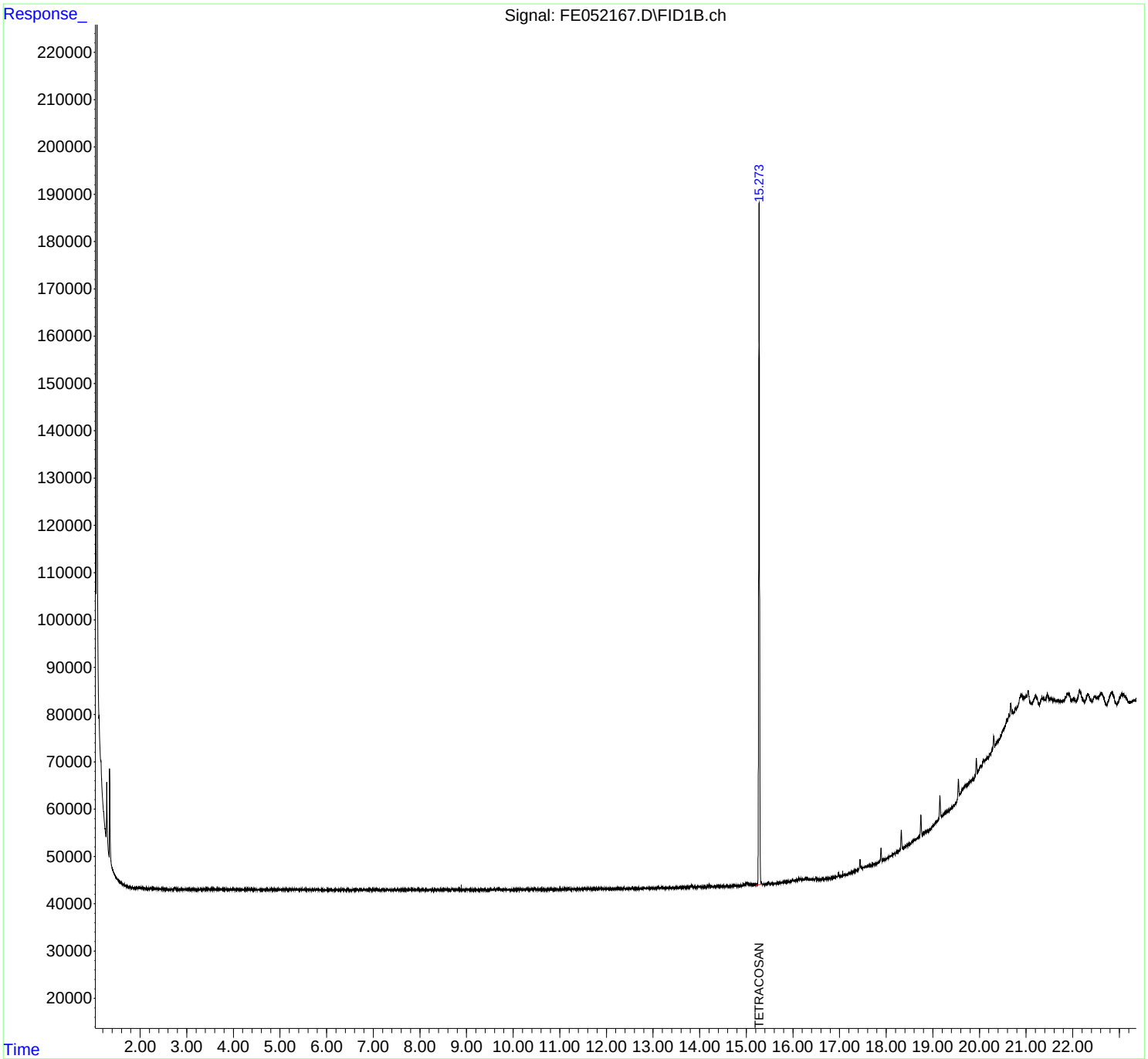
Integration File: autoint1.e
Quant Time: Feb 03 00:07:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

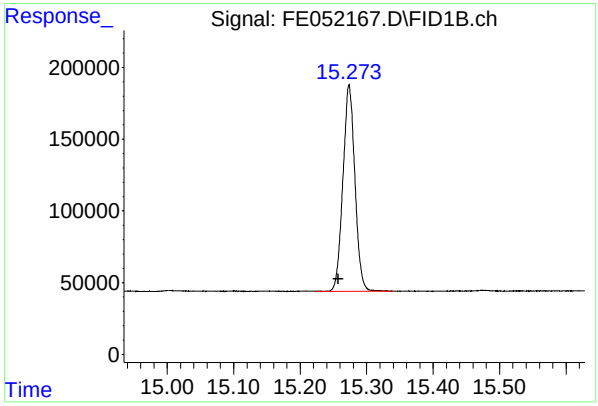
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_E
ClientSampleId :
I.BLK

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.273 min
Delta R.T.: 0.017 mir
Response: 1801068
Conc: 18.08 ug/m

Instrument :
FID_E
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Instrument :
FID_E
LabSampleId :
I.BLK

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052167.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 09:56
Sample : I.BLK
Misc :
ALS Vial : 98 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.274	15.186	15.347	BB	143692	1808772	100.00%	100.000%
			Sum of corrected areas:			1808772		

FE012325.M Mon Feb 03 02:01:24 2025

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-FE052179.D	SDG No.:	Q1241
Lab Sample ID:	I.BLK-FE052179.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052179.D	1		01/31/25	FE013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	50.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.3		29 - 130	82%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance 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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052179.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 16:09
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 98 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 03 00:11:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.300	1626036	16.326 ug/ml
Target Compounds			

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

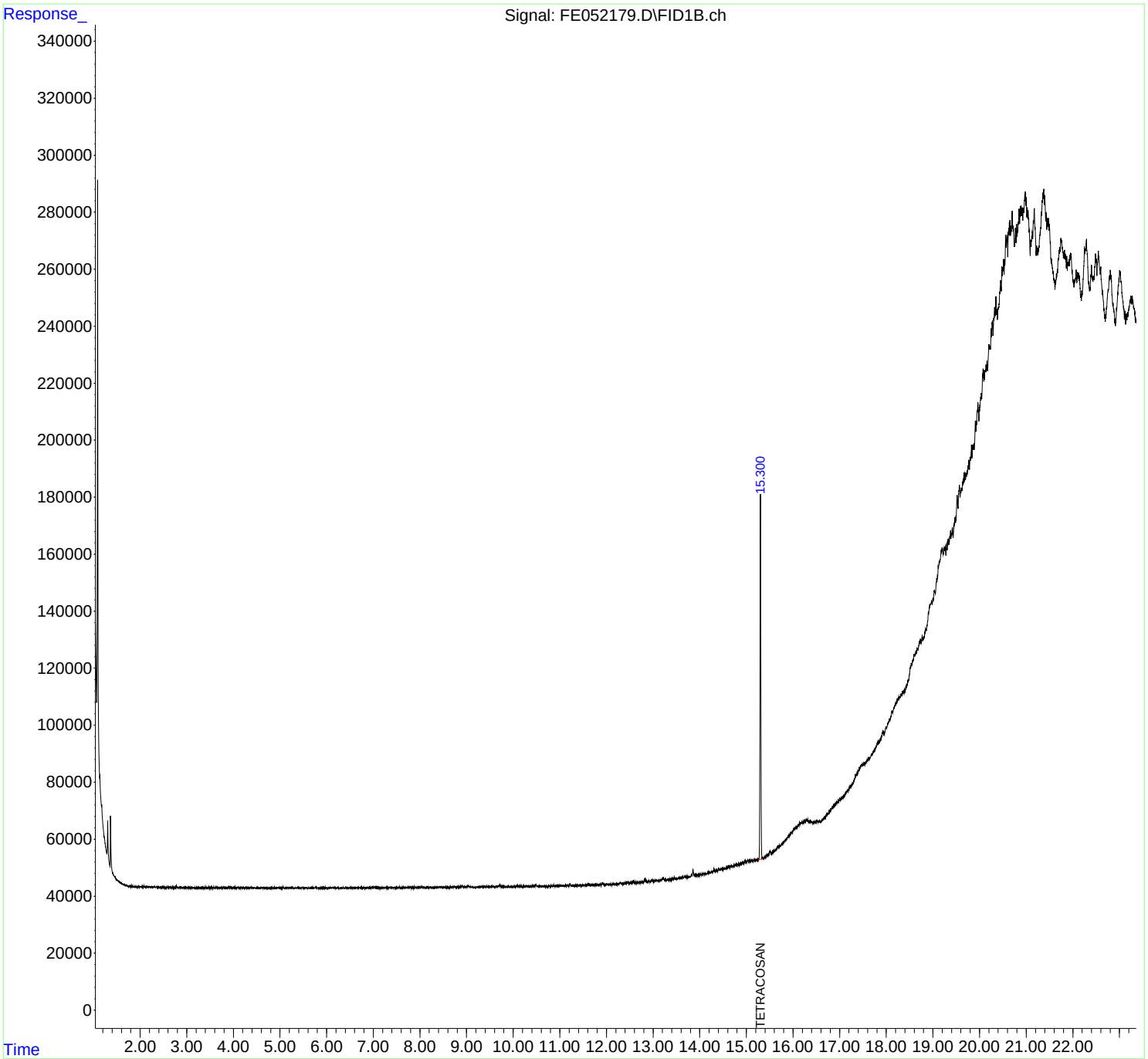
Quantitation Report (QT Reviewed)

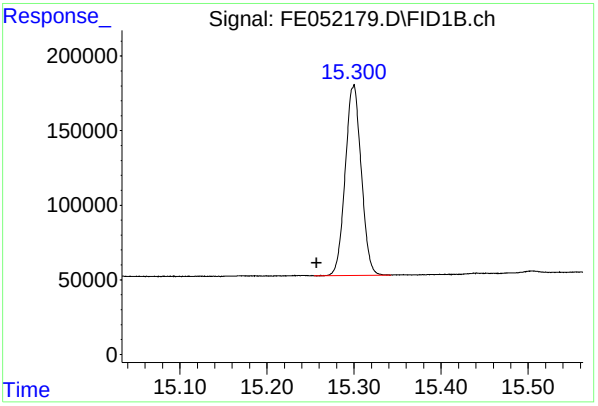
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052179.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 16:09
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 98 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 03 00:11:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.300 min
Delta R.T.: 0.043 mi
Response: 1626036
Conc: 16.33 ug/m

Instrument :
FID_E
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052179.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 16:09
Sample : I.BLK
Misc :
ALS Vial : 98 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.300	15.254	15.342	BB	127391	1626036	100.00%	100.000%

Sum of corrected areas: 1626036

FE012325.M Mon Feb 03 02:05:36 2025

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-FE052189.D	SDG No.:	Q1241
Lab Sample ID:	I.BLK-FE052189.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052189.D	1		01/31/25	FE013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	50.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.5		29 - 130	87%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance 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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052189.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 21:12
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 96 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 03 00:14:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.299	1739092	17.461 ug/ml
Target Compounds			

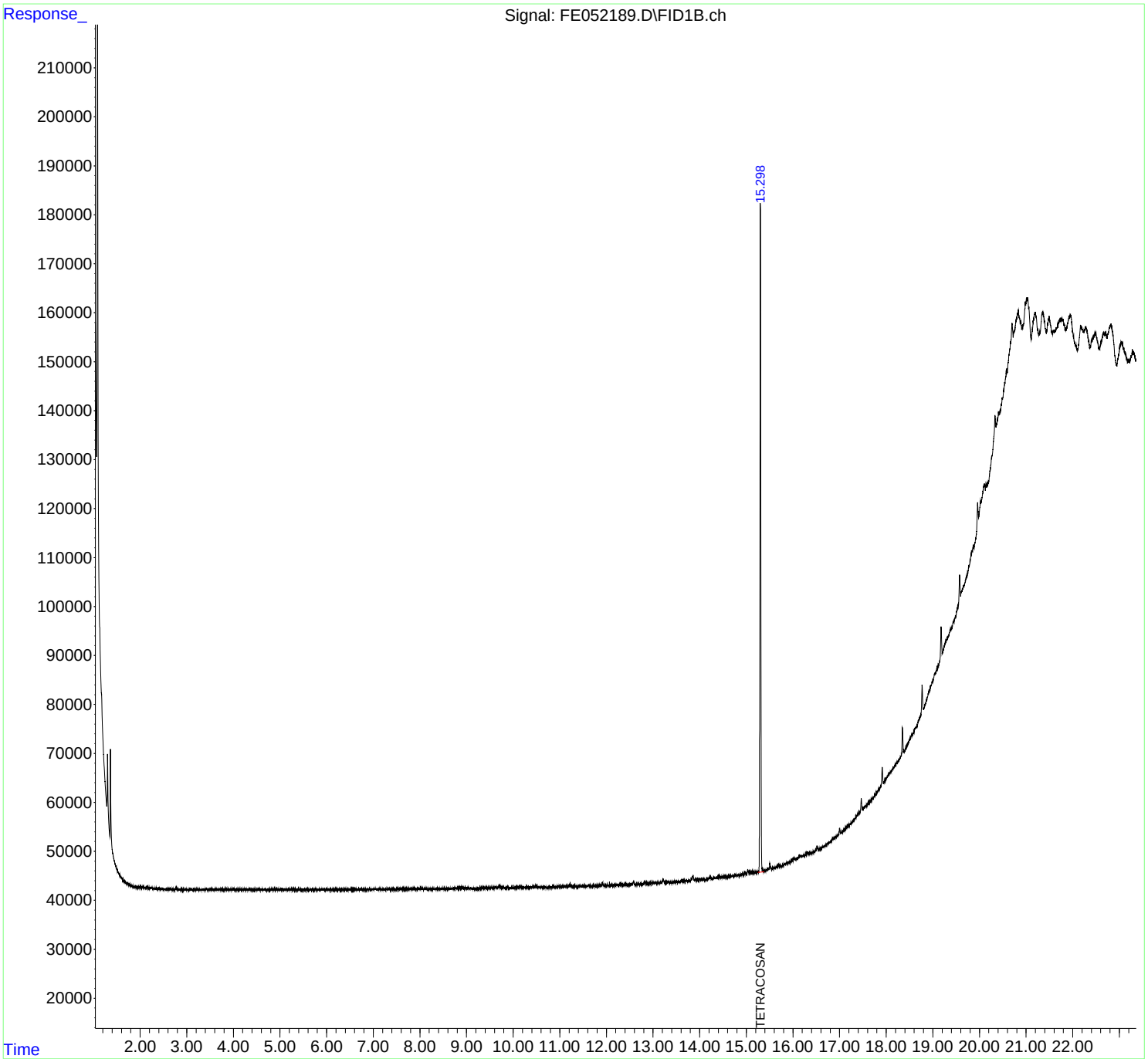
(f)=RT Delta > 1/2 Window (m)=manual int.

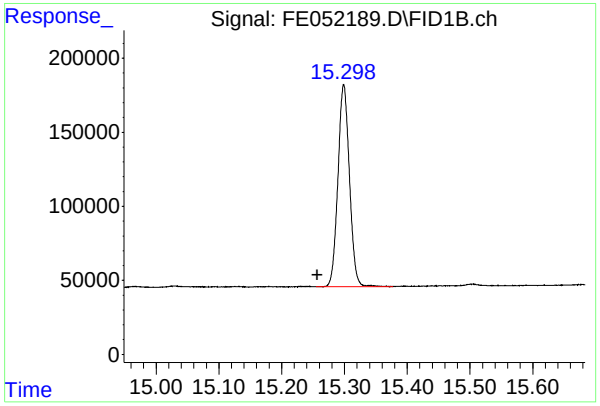
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052189.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 21:12
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 96 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 03 00:14:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.299 min
Delta R.T.: 0.042 mi
Response: 1739092
Conc: 17.46 ug/m

Instrument :
FID_E
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052189.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 21:12
Sample : I.BLK
Misc :
ALS Vial : 96 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.299	15.255	15.377	BB	136524	1739092	100.00%	100.000%
			Sum of corrected areas:			1739092		

FE012325.M Mon Feb 03 02:07:03 2025

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166415BS	SDG No.:	Q1241
Lab Sample ID:	PB166415BS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052172.D	1	01/31/25 08:50	01/31/25 12:38	PB166415

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	6350		185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	18.8		37 - 130	94%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance 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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052172.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 12:38
Operator : YP\AJ
Sample : PB166415BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 03 00:08:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_E
ClientSampleId :
PB166415BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
9)	S TETRACOSANE-d50 (SURR...	15.269	1871130	18.787	ug/mlm
	Target Compounds				
2)	N-DECANE	4.930	1667496	18.223	ug/ml
3)	N-DODECANE	7.056	1831391	18.329	ug/ml
4)	N-TETRADECANE	8.860	1960262	19.266	ug/ml
5)	N-HEXADECANE	10.452	2054144	19.277	ug/ml
6)	N-OCTADECANE	11.884	2140266	19.089	ug/mlm
7)	N-EICOSANE	13.186	2185174	19.619	ug/ml
8)	N-DOCOSANE	14.376	2128002	19.166	ug/ml
10)	N-TETRACOSANE	15.474	2117307	19.142	ug/ml
11)	N-HEXACOSANE	16.490	2103127	19.293	ug/ml
12)	N-OCTACOSANE	17.436	2070572	19.183	ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052172.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 12:38
Operator : YP\AJ
Sample : PB166415BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

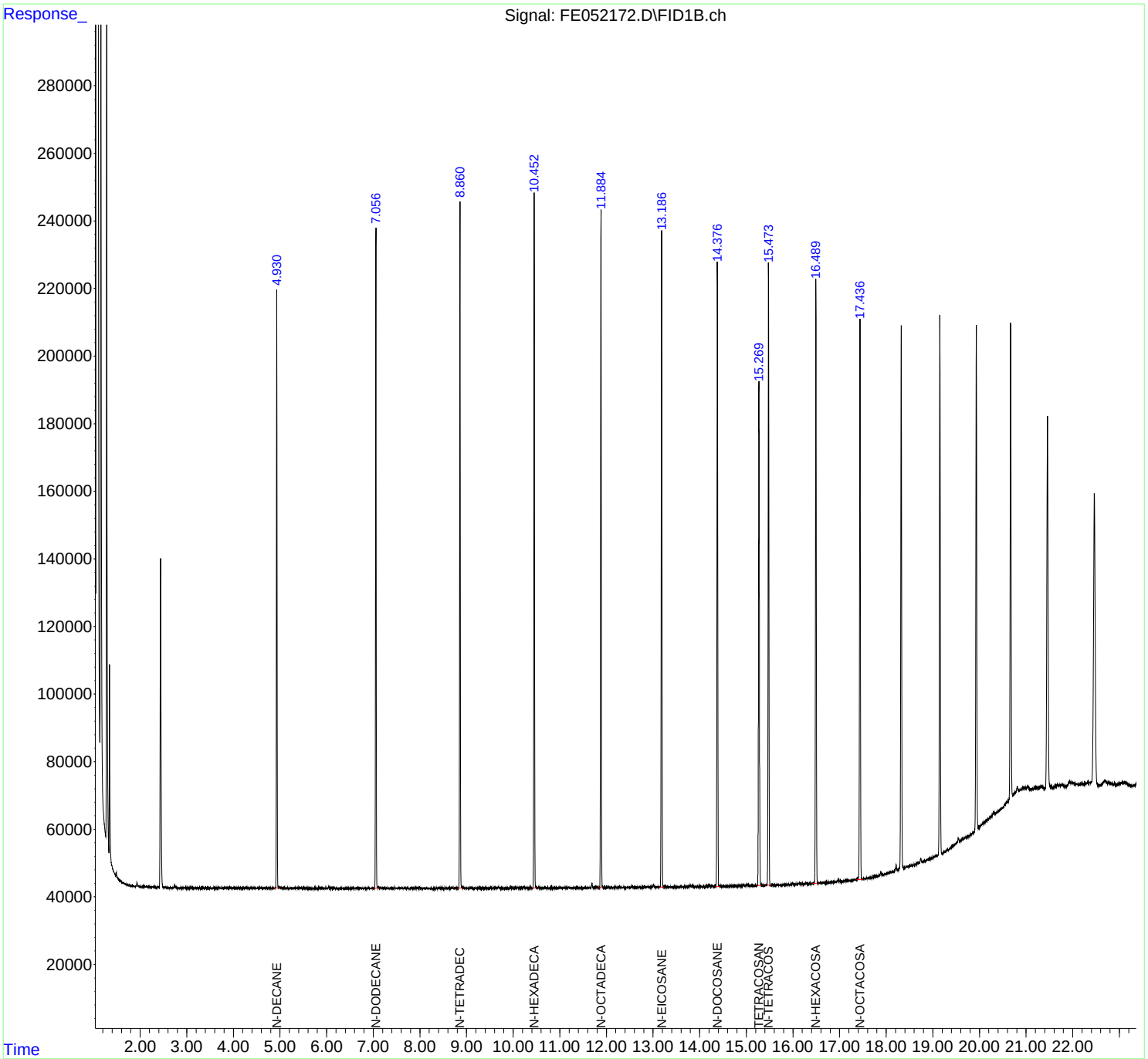
Integration File: autoint1.e
Quant Time: Feb 03 00:08:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

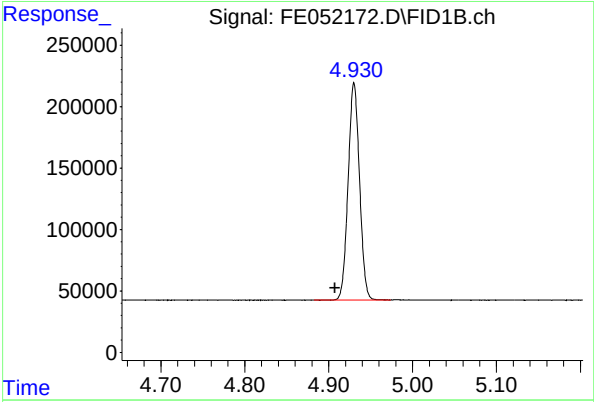
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_E
ClientSampleId :
PB166415BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025





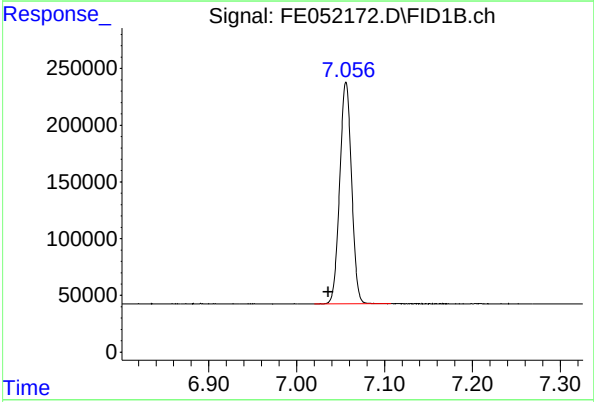
#2 N-DECANE

R.T.: 4.930 min
Delta R.T.: 0.023 min
Response: 1667496
Conc: 18.22 ug/ml

Instrument :
FID_E
ClientSampleId :
PB166415BS

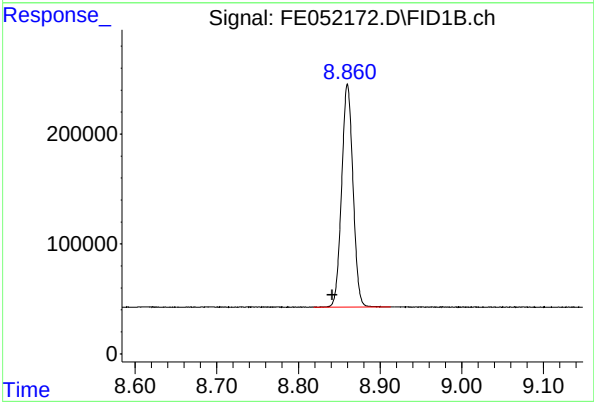
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



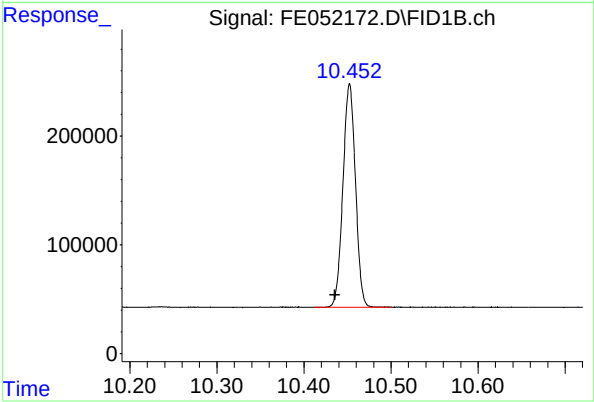
#3 N-DODECANE

R.T.: 7.056 min
Delta R.T.: 0.020 min
Response: 1831391
Conc: 18.33 ug/ml



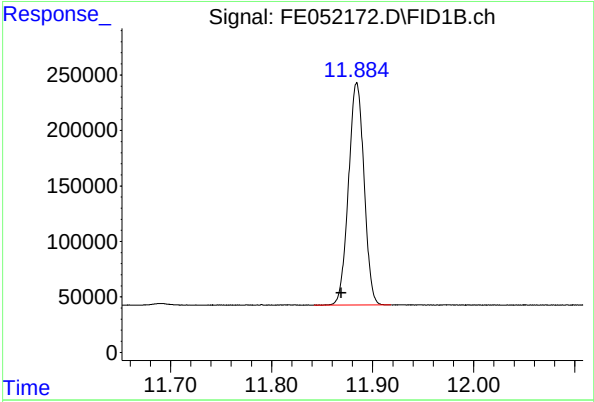
#4 N-TETRADECANE

R.T.: 8.860 min
Delta R.T.: 0.018 min
Response: 1960262
Conc: 19.27 ug/ml



#5 N-HEXADECANE

R.T.: 10.452 min
Delta R.T.: 0.017 min
Response: 2054144
Conc: 19.28 ug/ml



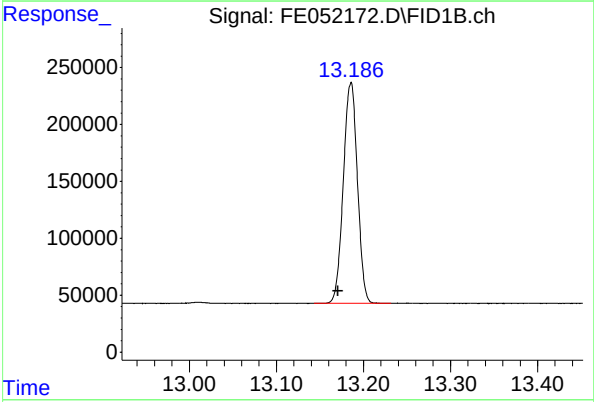
#6 N-OCTADECANE

R.T.: 11.884 min
Delta R.T.: 0.015 min
Response: 2140266
Conc: 19.09 ug/ml

Instrument :
FID_E
ClientSampleId :
PB166415BS

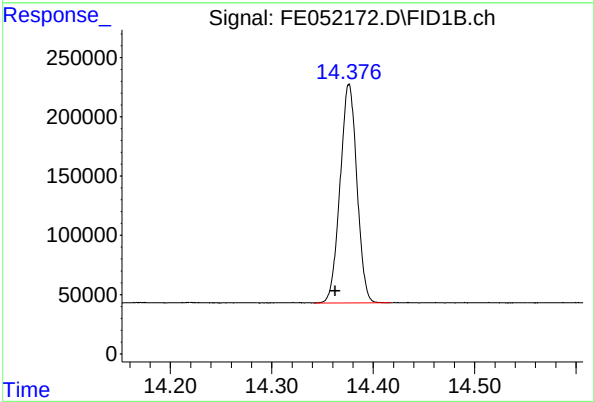
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



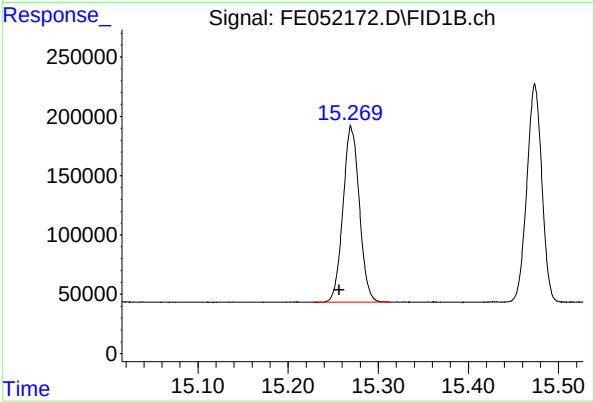
#7 N-EICOSANE

R.T.: 13.186 min
Delta R.T.: 0.015 min
Response: 2185174
Conc: 19.62 ug/ml



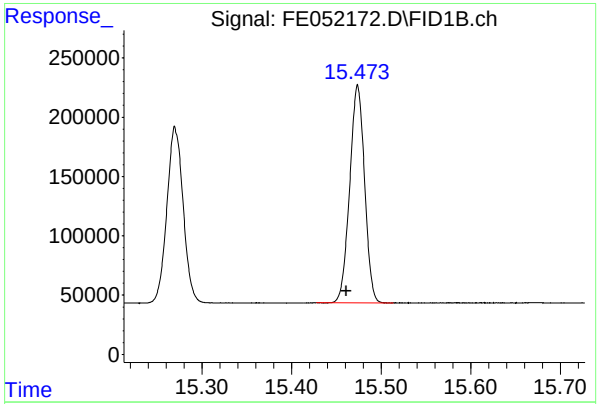
#8 N-DOCOSANE

R.T.: 14.376 min
Delta R.T.: 0.014 min
Response: 2128002
Conc: 19.17 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.269 min
Delta R.T.: 0.012 min
Response: 1871130
Conc: 18.79 ug/ml m



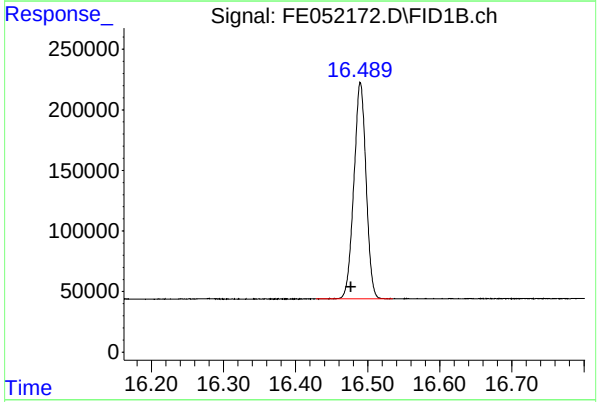
#10 N-TETRACOSANE

R.T.: 15.474 min
Delta R.T.: 0.013 min
Response: 2117307
Conc: 19.14 ug/ml

Instrument :
FID_E
ClientSampleId :
PB166415BS

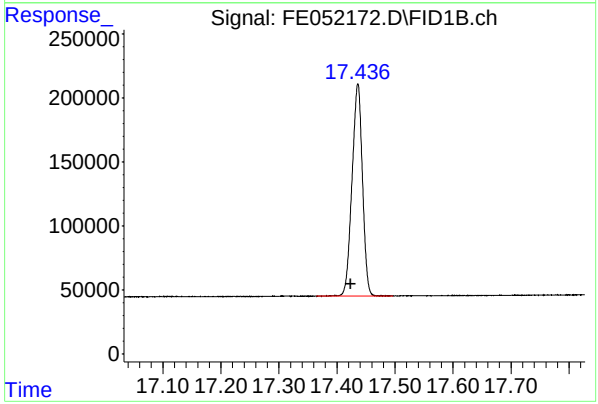
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



#11 N-HEXACOSANE

R.T.: 16.490 min
Delta R.T.: 0.013 min
Response: 2103127
Conc: 19.29 ug/ml



#12 N-OCTACOSANE

R.T.: 17.436 min
Delta R.T.: 0.013 min
Response: 2070572
Conc: 19.18 ug/ml

Instrument :
FID_E
ClientSampleId :
PB166415BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052172.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 12:38
Sample : PB166415BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.930	4.882	4.974	BB	177047	1667496	76.31%	7.536%
2	7.056	7.020	7.107	BB	195607	1831391	83.81%	8.276%
3	8.860	8.819	8.913	BB	203032	1960262	89.71%	8.859%
4	10.452	10.412	10.500	BB	205530	2054144	94.00%	9.283%
5	11.884	11.772	11.920	BB	200340	2139250	97.90%	9.668%
6	13.186	13.143	13.232	BB	194052	2185174	100.00%	9.875%
7	14.376	14.342	14.417	BB	184985	2128002	97.38%	9.617%
8	15.270	15.191	15.322	BB	148202	1871106	85.63%	8.456%
9	15.474	15.427	15.513	BB	183502	2117307	96.89%	9.569%
10	16.490	16.428	16.535	BB	178491	2103127	96.25%	9.504%
11	17.436	17.364	17.497	BB	165740	2070572	94.76%	9.357%
			Sum of corrected areas:			22127831		

FE012325.M Mon Feb 03 02:05:04 2025

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-5.3-013025MS	SDG No.:	Q1241
Lab Sample ID:	Q1241-05MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.3 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052181.D	1	01/31/25 08:50	01/31/25 17:10	PB166415

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	150000	E	207	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.8		37 - 130	64%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance 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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052181.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 17:10
Operator : YP\AJ
Sample : Q1241-05MS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MS

Integration File: autoint1.e
Quant Time: Feb 03 01:36:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
9)	S TETRACOSANE-d50 (SURR...	15.243	1271058	12.762	ug/ml
	Target Compounds				
2)	N-DECANE	4.973	1675110	18.306	ug/ml
3)	N-DODECANE	7.095	1826036	18.276	ug/ml
4)	N-TETRADECANE	8.848	414569	4.074	ug/ml
5)	N-HEXADECANE	10.428	733215	6.881	ug/ml
6)	N-OCTADECANE	11.865	126683	1.130	ug/ml
7)	N-EICOSANE	13.165	991476	8.902	ug/ml
8)	N-DOCOSANE	14.356	1338735	12.057	ug/ml
10)	N-TETRACOSANE	15.449	647568	5.854	ug/ml
11)	N-HEXACOSANE	16.476	419148	3.845	ug/ml
12)	N-OCTACOSANE	17.451	10339978	95.794	ug/ml

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

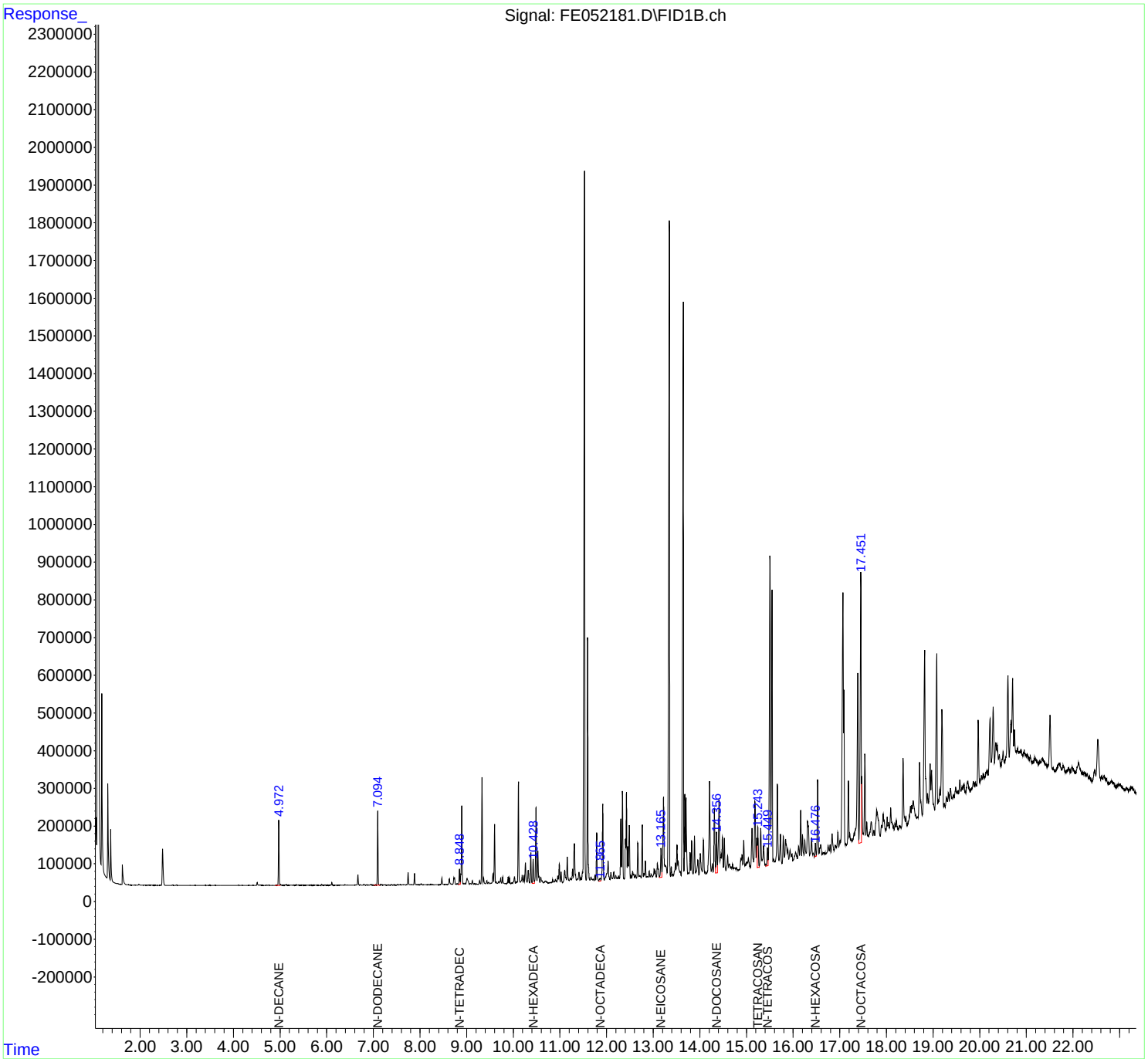
Quantitation Report (QT Reviewed)

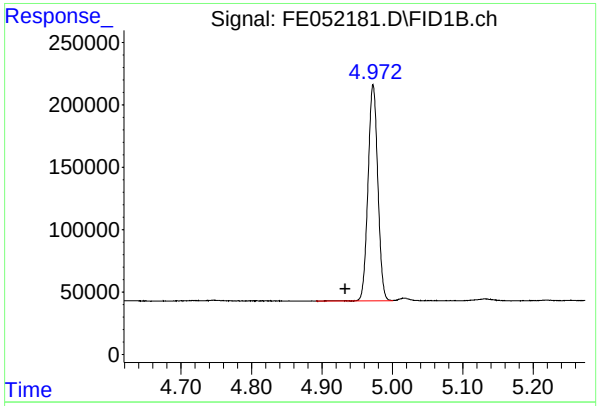
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052181.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 17:10
Operator : YP\AJ
Sample : Q1241-05MS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MS

Integration File: autoint1.e
Quant Time: Feb 03 01:36:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

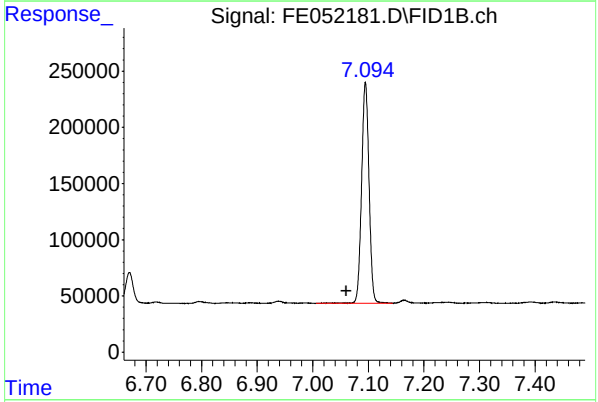




#2 N-DECANE

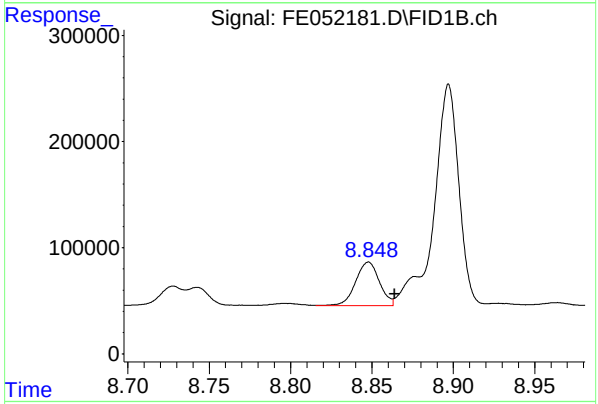
R.T.: 4.973 min
Delta R.T.: 0.040 min
Response: 1675110
Conc: 18.31 ug/ml

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MS



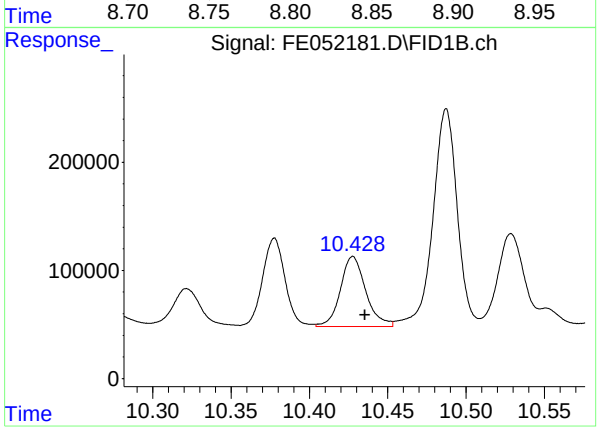
#3 N-DODECANE

R.T.: 7.095 min
Delta R.T.: 0.035 min
Response: 1826036
Conc: 18.28 ug/ml



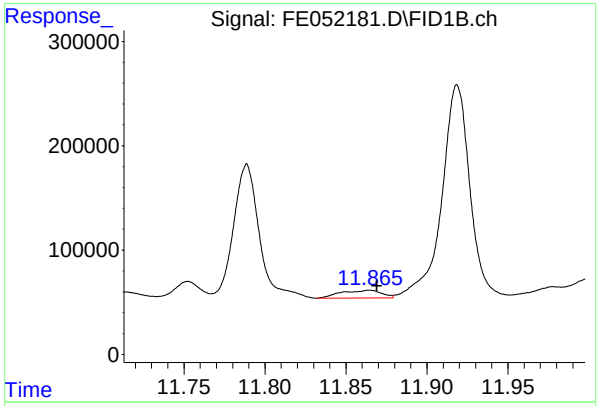
#4 N-TETRADECANE

R.T.: 8.848 min
Delta R.T.: -0.016 min
Response: 414569
Conc: 4.07 ug/ml



#5 N-HEXADECANE

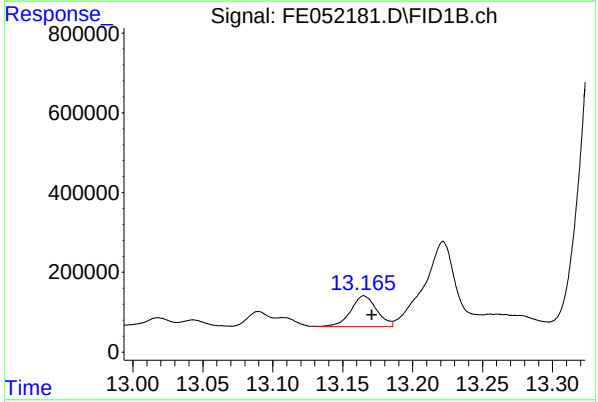
R.T.: 10.428 min
Delta R.T.: -0.008 min
Response: 733215
Conc: 6.88 ug/ml



#6 N-OCTADECANE

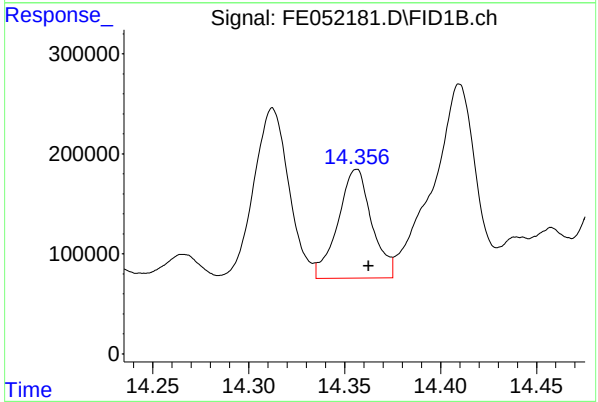
R.T.: 11.865 min
Delta R.T.: -0.004 min
Response: 126683
Conc: 1.13 ug/ml

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MS



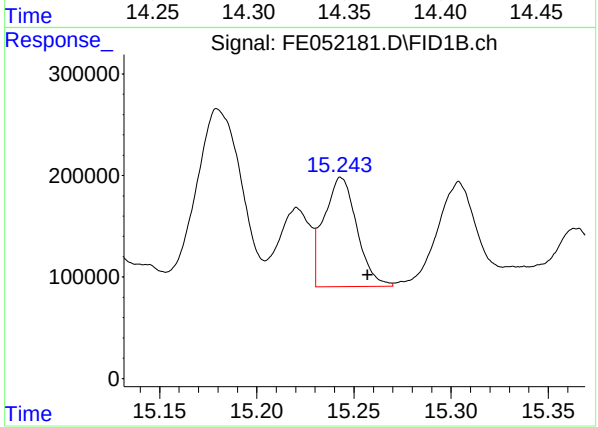
#7 N-EICOSANE

R.T.: 13.165 min
Delta R.T.: -0.006 min
Response: 991476
Conc: 8.90 ug/ml



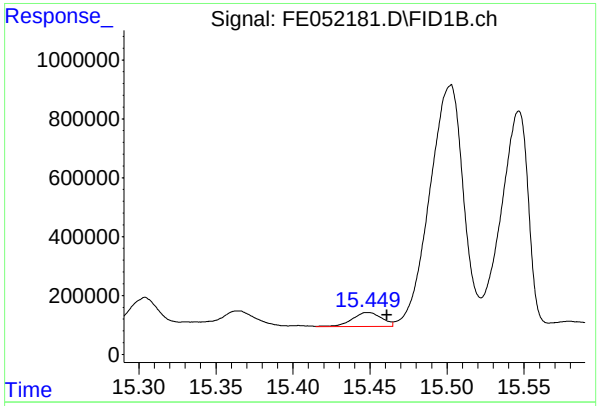
#8 N-DOCOSANE

R.T.: 14.356 min
Delta R.T.: -0.006 min
Response: 1338735
Conc: 12.06 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

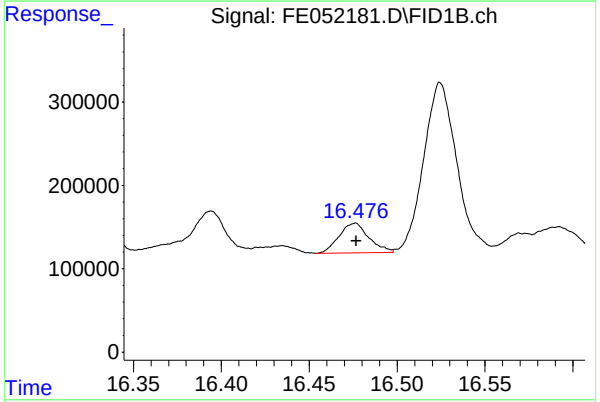
R.T.: 15.243 min
Delta R.T.: -0.014 min
Response: 1271058
Conc: 12.76 ug/ml



#10 N-TETRACOSANE

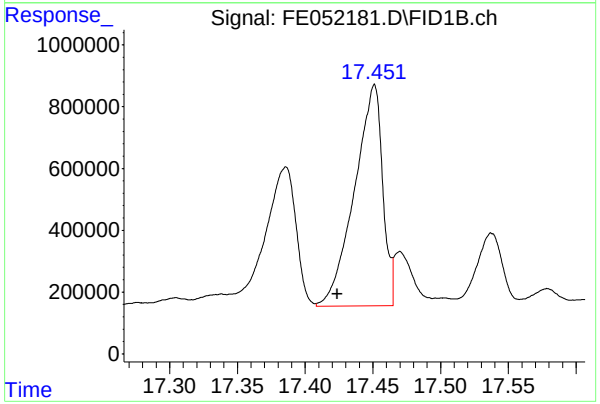
R.T.: 15.449 min
Delta R.T.: -0.012 min
Response: 647568
Conc: 5.85 ug/ml

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MS



#11 N-HEXACOSANE

R.T.: 16.476 min
Delta R.T.: 0.000 min
Response: 419148
Conc: 3.85 ug/ml



#12 N-OCTACOSANE

R.T.: 17.451 min
Delta R.T.: 0.027 min
Response: 10339978
Conc: 95.79 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052181.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 17:10
Sample : Q1241-05MS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.912	4.852	4.944	BH	301	3548	0.01%	0.001%
2	4.973	4.944	5.001	HH	173549	1673818	6.41%	0.392%
3	5.017	5.001	5.045	HH	2249	27945	0.11%	0.007%
4	5.055	5.045	5.071	HH	348	4301	0.02%	0.001%
5	5.088	5.071	5.098	HH	365	4282	0.02%	0.001%
6	5.131	5.098	5.177	HH	1772	34366	0.13%	0.008%
7	5.178	5.177	5.182	HH	231	509	0.00%	0.000%
8	5.200	5.182	5.205	HH	385	3503	0.01%	0.001%
9	5.218	5.205	5.240	HH	667	10080	0.04%	0.002%
10	5.258	5.240	5.274	HH	513	8390	0.03%	0.002%
11	5.280	5.274	5.292	HH	493	4116	0.02%	0.001%
12	5.293	5.292	5.310	HH	404	2770	0.01%	0.001%
13	5.317	5.310	5.323	HH	371	2087	0.01%	0.000%
14	5.344	5.323	5.367	HH	922	15169	0.06%	0.004%
15	5.383	5.367	5.413	HH	665	12202	0.05%	0.003%
16	5.432	5.413	5.452	HH	409	6032	0.02%	0.001%
17	5.471	5.452	5.538	HH	644	14634	0.06%	0.003%
18	5.560	5.538	5.566	HH	514	4873	0.02%	0.001%
19	5.572	5.566	5.578	HH	493	3115	0.01%	0.001%
20	5.587	5.578	5.602	HH	453	5079	0.02%	0.001%
21	5.618	5.602	5.629	HH	603	6087	0.02%	0.001%
22	5.643	5.629	5.656	HH	365	4954	0.02%	0.001%
23	5.660	5.656	5.678	HH	414	4210	0.02%	0.001%
24	5.682	5.678	5.699	HH	389	2981	0.01%	0.001%
25	5.708	5.699	5.714	HH	424	1879	0.01%	0.000%
26	5.729	5.714	5.744	HH	421	5500	0.02%	0.001%
27	5.774	5.744	5.798	HH	646	12803	0.05%	0.003%
28	5.812	5.798	5.830	HH	433	4755	0.02%	0.001%
29	5.842	5.830	5.855	HH	209	2015	0.01%	0.000%
30	5.895	5.855	5.922	HH	2158	27880	0.11%	0.007%
31	5.931	5.922	5.941	HH	420	3428	0.01%	0.001%
32	5.956	5.941	5.961	HH	433	4001	0.02%	0.001%
33	5.968	5.961	5.994	HH	393	6550	0.03%	0.002%
34	5.997	5.994	6.006	HH	255	1141	0.00%	0.000%
35	6.010	6.006	6.020	HH	212	1249	0.00%	0.000%
36	6.038	6.020	6.065	HH	371	6074	0.02%	0.001%

rteres

37	6.084	6.065	6.095	HH	1163	12749	0.05%	0.003%
38	6.111	6.095	6.155	HH	7701	87789	0.34%	0.021%
39	6.166	6.155	6.178	HH	426	4337	0.02%	0.001%
40	6.203	6.178	6.216	HH	695	9678	0.04%	0.002%
41	6.229	6.216	6.251	HH	430	6817	0.03%	0.002%
42	6.267	6.251	6.278	HH	432	5536	0.02%	0.001%
43	6.291	6.278	6.310	HH	899	12507	0.05%	0.003%
44	6.319	6.310	6.341	HH	772	10696	0.04%	0.003%
45	6.391	6.341	6.427	HH	1984	38765	0.15%	0.009%
46	6.442	6.427	6.461	HH	1215	14274	0.05%	0.003%
47	6.491	6.461	6.498	HH	683	11350	0.04%	0.003%
48	6.508	6.498	6.520	HH	751	8978	0.03%	0.002%
49	6.537	6.520	6.552	HH	788	12276	0.05%	0.003%
50	6.563	6.552	6.581	HH	757	10464	0.04%	0.002%
51	6.584	6.581	6.595	HH	559	4038	0.02%	0.001%
52	6.612	6.595	6.625	HH	1238	16979	0.07%	0.004%
53	6.638	6.625	6.645	HH	1170	12392	0.05%	0.003%
54	6.670	6.645	6.705	HH	28119	288565	1.11%	0.068%
55	6.718	6.705	6.742	HH	1805	24754	0.09%	0.006%
56	6.746	6.742	6.772	HH	755	11330	0.04%	0.003%
57	6.796	6.772	6.829	HH	2225	40055	0.15%	0.009%
58	6.847	6.829	6.874	HH	1092	24345	0.09%	0.006%
59	6.888	6.874	6.913	HH	1169	19844	0.08%	0.005%
60	6.939	6.913	6.963	HH	2513	39968	0.15%	0.009%
61	6.967	6.963	6.973	HH	869	5247	0.02%	0.001%
62	6.988	6.973	7.005	HH	970	15781	0.06%	0.004%
63	7.028	7.005	7.038	HH	904	15832	0.06%	0.004%
64	7.049	7.038	7.062	HH	970	12223	0.05%	0.003%
65	7.095	7.062	7.144	HH	197146	1855219	7.11%	0.434%
66	7.164	7.144	7.197	HH	3474	51161	0.20%	0.012%
67	7.244	7.197	7.266	HH	1618	46495	0.18%	0.011%
68	7.276	7.266	7.284	HH	905	9001	0.03%	0.002%
69	7.312	7.284	7.344	HH	1291	35397	0.14%	0.008%
70	7.394	7.344	7.415	HH	1841	46768	0.18%	0.011%
71	7.436	7.415	7.472	HH	1883	40252	0.15%	0.009%
72	7.484	7.472	7.491	HH	1091	10628	0.04%	0.002%
73	7.495	7.491	7.502	HH	1006	7040	0.03%	0.002%
74	7.518	7.502	7.542	HH	2250	33657	0.13%	0.008%
75	7.556	7.542	7.573	HH	1967	28785	0.11%	0.007%
76	7.586	7.573	7.602	HH	1608	23653	0.09%	0.006%
77	7.622	7.602	7.643	HH	1734	38206	0.15%	0.009%
78	7.654	7.643	7.667	HH	1897	23931	0.09%	0.006%
79	7.677	7.667	7.697	HH	1964	30233	0.12%	0.007%
80	7.699	7.697	7.712	HH	1471	12574	0.05%	0.003%
81	7.746	7.712	7.774	HH	33821	361973	1.39%	0.085%
82	7.784	7.774	7.789	HH	1916	16740	0.06%	0.004%
83	7.804	7.789	7.816	HH	2440	33433	0.13%	0.008%
84	7.818	7.816	7.829	HH	2084	15395	0.06%	0.004%
85	7.839	7.829	7.861	HH	2104	32715	0.13%	0.008%
86	7.884	7.861	7.915	HH	31767	329841	1.26%	0.077%
87	7.925	7.915	7.947	HH	1936	32238	0.12%	0.008%
88	7.961	7.947	7.972	HH	1605	21121	0.08%	0.005%
89	7.979	7.972	7.989	HH	1525	15582	0.06%	0.004%

90	8.026	7.989	8.071	HH	4554	109629	0.42%	0.026%
91	8.087	8.071	8.091	HH	1854	21085	0.08%	0.005%
92	8.107	8.091	8.126	HH	2074	39446	0.15%	0.009%
93	8.132	8.126	8.162	HH	1846	34672	0.13%	0.008%
94	8.184	8.162	8.189	HH	1780	25537	0.10%	0.006%
95	8.218	8.189	8.229	HH	2167	45517	0.17%	0.011%
96	8.239	8.229	8.261	HH	2268	38582	0.15%	0.009%
97	8.272	8.261	8.304	HH	1899	39825	0.15%	0.009%
98	8.326	8.304	8.333	HH	2136	30659	0.12%	0.007%
99	8.343	8.333	8.356	HH	2080	26062	0.10%	0.006%
100	8.360	8.356	8.392	HH	2019	38209	0.15%	0.009%
101	8.395	8.392	8.410	HH	1699	17914	0.07%	0.004%
102	8.434	8.410	8.447	HH	2513	46695	0.18%	0.011%
103	8.471	8.447	8.497	HH	19903	235290	0.90%	0.055%
104	8.506	8.497	8.537	HH	2890	58282	0.22%	0.014%
105	8.550	8.537	8.567	HH	2681	43486	0.17%	0.010%
106	8.578	8.567	8.583	HH	2638	23779	0.09%	0.006%
107	8.593	8.583	8.608	HH	2854	39533	0.15%	0.009%
108	8.630	8.608	8.667	HH	17456	263814	1.01%	0.062%
109	8.676	8.667	8.695	HH	3584	53156	0.20%	0.012%
110	8.728	8.695	8.736	HH	21037	243054	0.93%	0.057%
111	8.743	8.736	8.779	HH	19833	227334	0.87%	0.053%
112	8.797	8.779	8.816	HH	4784	82896	0.32%	0.019%
113	8.848	8.816	8.863	HH	43912	491986	1.88%	0.115%
114	8.897	8.863	8.921	HH	211363	2311378	8.85%	0.541%
115	8.928	8.921	8.945	HH	4885	60237	0.23%	0.014%
116	8.964	8.945	8.982	HH	5395	91701	0.35%	0.021%
117	9.010	8.982	9.066	HH	19096	522931	2.00%	0.122%
118	9.081	9.066	9.107	HH	5091	104365	0.40%	0.024%
119	9.124	9.107	9.152	HH	13271	189727	0.73%	0.044%
120	9.166	9.152	9.181	HH	4975	74293	0.28%	0.017%
121	9.197	9.181	9.216	HH	3722	74500	0.29%	0.017%
122	9.228	9.216	9.241	HH	3259	46074	0.18%	0.011%
123	9.248	9.241	9.252	HH	3257	21453	0.08%	0.005%
124	9.279	9.252	9.302	HH	13232	202753	0.78%	0.047%
125	9.332	9.302	9.352	HH	286408	2829735	10.84%	0.662%
126	9.365	9.352	9.410	HH	20953	331821	1.27%	0.078%
127	9.435	9.410	9.456	HH	13110	213991	0.82%	0.050%
128	9.472	9.456	9.501	HH	8530	177307	0.68%	0.041%
129	9.517	9.501	9.522	HH	5978	70952	0.27%	0.017%
130	9.534	9.522	9.541	HH	6256	66145	0.25%	0.015%
131	9.567	9.541	9.582	HH	31162	440259	1.69%	0.103%
132	9.601	9.582	9.623	HH	161969	1630870	6.25%	0.382%
133	9.634	9.623	9.664	HH	9640	169000	0.65%	0.040%
134	9.685	9.664	9.700	HH	10222	161828	0.62%	0.038%
135	9.732	9.700	9.750	HH	19520	337599	1.29%	0.079%
136	9.774	9.750	9.796	HH	22602	322032	1.23%	0.075%
137	9.800	9.796	9.819	HH	5986	74089	0.28%	0.017%
138	9.833	9.819	9.851	HH	5041	89635	0.34%	0.021%
139	9.890	9.851	9.906	HH	22259	339508	1.30%	0.079%
140	9.921	9.906	9.950	HH	20946	283191	1.08%	0.066%
141	9.974	9.950	9.987	HH	6199	124889	0.48%	0.029%

142	10.025	9.987	10.047	HH	23055	426056	1.63%	0.100%
143	10.066	10.047	10.073	HH	8887	123143	0.47%	0.029%
144	10.082	10.073	10.087	HH	8693	67830	0.26%	0.016%
145	10.112	10.087	10.157	HH	274329	2925521	11.21%	0.685%
146	10.191	10.157	10.213	HH	26683	515880	1.98%	0.121%
147	10.229	10.213	10.243	HH	25709	297800	1.14%	0.070%
148	10.263	10.243	10.298	HH	60192	925135	3.54%	0.217%
149	10.322	10.298	10.356	HH	40382	633324	2.43%	0.148%
150	10.378	10.356	10.404	HH	87209	972953	3.73%	0.228%
151	10.428	10.404	10.453	HH	70235	887713	3.40%	0.208%
152	10.487	10.453	10.509	HH	206954	2353209	9.01%	0.551%
153	10.529	10.509	10.572	HH	91418	1360959	5.21%	0.319%
154	10.592	10.572	10.611	HH	22614	345571	1.32%	0.081%
155	10.620	10.611	10.645	HH	12273	193978	0.74%	0.045%
156	10.691	10.645	10.715	HH	11701	399215	1.53%	0.093%
157	10.727	10.715	10.759	HH	9987	199674	0.76%	0.047%
158	10.790	10.759	10.802	HH	8038	182229	0.70%	0.043%
159	10.811	10.802	10.823	HH	7977	100117	0.38%	0.023%
160	10.846	10.823	10.867	HH	15569	292687	1.12%	0.069%
161	10.878	10.867	10.886	HH	9670	105180	0.40%	0.025%
162	10.903	10.886	10.916	HH	15711	225586	0.86%	0.053%
163	10.923	10.916	10.936	HH	12121	132411	0.51%	0.031%
164	10.954	10.936	10.966	HH	25034	337560	1.29%	0.079%
165	10.987	10.966	11.009	HH	57811	836100	3.20%	0.196%
166	11.027	11.009	11.057	HH	36013	535227	2.05%	0.125%
167	11.103	11.057	11.120	HH	39695	753333	2.89%	0.176%
168	11.127	11.120	11.140	HH	21664	233089	0.89%	0.055%
169	11.160	11.140	11.193	HH	76054	1115449	4.27%	0.261%
170	11.198	11.193	11.207	HH	13664	111325	0.43%	0.026%
171	11.222	11.207	11.232	HH	18566	240850	0.92%	0.056%
172	11.239	11.232	11.249	HH	17433	175486	0.67%	0.041%
173	11.271	11.249	11.285	HH	43266	626518	2.40%	0.147%
174	11.313	11.285	11.332	HH	111137	1904391	7.30%	0.446%
175	11.336	11.332	11.354	HH	27886	292246	1.12%	0.068%
176	11.379	11.354	11.390	HH	17769	338513	1.30%	0.079%
177	11.408	11.390	11.427	HH	34559	531209	2.03%	0.124%
178	11.442	11.427	11.463	HH	20914	382244	1.46%	0.089%
179	11.483	11.463	11.489	HH	35668	415314	1.59%	0.097%
180	11.530	11.489	11.562	HH	1891774	24689658	94.58%	5.779%
181	11.593	11.562	11.647	HH	656863	7375721	28.25%	1.726%
182	11.667	11.647	11.702	HH	22104	577695	2.21%	0.135%
183	11.713	11.702	11.733	HH	17130	282149	1.08%	0.066%
184	11.752	11.733	11.767	HH	27166	397359	1.52%	0.093%
185	11.789	11.767	11.832	HH	140179	1847006	7.08%	0.432%
186	11.865	11.832	11.879	HH	18783	448895	1.72%	0.105%
187	11.919	11.879	11.952	HH	215782	2972671	11.39%	0.696%
188	11.979	11.952	11.983	HH	22021	346633	1.33%	0.081%
189	12.031	11.983	12.074	HH	65145	1735857	6.65%	0.406%
190	12.095	12.074	12.122	HH	34540	696803	2.67%	0.163%
191	12.156	12.122	12.175	HH	35648	748439	2.87%	0.175%
192	12.196	12.175	12.220	HH	26066	570205	2.18%	0.133%
193	12.233	12.220	12.244	HH	19791	270280	1.04%	0.063%
194	12.259	12.244	12.275	HH	24751	389042	1.49%	0.091%

195	12.307	12.275	12.322	HH	176642	2228603	8.54%	0.522%
196	12.339	12.322	12.367	HH	249361	2854829	10.94%	0.668%
197	12.375	12.367	12.381	HH	17851	143971	0.55%	0.034%
198	12.405	12.381	12.413	HH	123096	1342825	5.14%	0.314%
199	12.427	12.413	12.442	HH	247359	2713561	10.39%	0.635%
200	12.456	12.442	12.469	HH	103430	1213147	4.65%	0.284%
201	12.486	12.469	12.507	HH	159381	1950988	7.47%	0.457%
202	12.520	12.507	12.535	HH	27098	381814	1.46%	0.089%
203	12.559	12.535	12.572	HH	37310	629947	2.41%	0.147%
204	12.581	12.572	12.601	HH	30113	452134	1.73%	0.106%
205	12.622	12.601	12.642	HH	27723	586134	2.25%	0.137%
206	12.668	12.642	12.705	HH	112652	1831695	7.02%	0.429%
207	12.714	12.705	12.743	HH	25228	534434	2.05%	0.125%
208	12.768	12.743	12.789	HH	160837	2024883	7.76%	0.474%
209	12.803	12.789	12.812	HH	32001	406725	1.56%	0.095%
210	12.830	12.812	12.856	HH	65450	1016318	3.89%	0.238%
211	12.880	12.856	12.894	HH	23719	522427	2.00%	0.122%
212	12.917	12.894	12.936	HH	37603	723791	2.77%	0.169%
213	12.954	12.936	12.989	HH	30555	810573	3.11%	0.190%
214	13.018	12.989	13.032	HH	43404	851129	3.26%	0.199%
215	13.043	13.032	13.072	HH	38383	698607	2.68%	0.164%
216	13.090	13.072	13.103	HH	59246	810842	3.11%	0.190%
217	13.108	13.103	13.131	HH	43730	568020	2.18%	0.133%
218	13.165	13.131	13.186	HH	98926	1695235	6.49%	0.397%
219	13.222	13.186	13.250	HH	234478	4250263	16.28%	0.995%
220	13.255	13.250	13.297	HH	52834	1324010	5.07%	0.310%
221	13.346	13.297	13.371	HH	1749935	26104905	100.00%	6.110%
222	13.388	13.371	13.405	HH	49209	717286	2.75%	0.168%
223	13.419	13.405	13.433	HH	29984	470168	1.80%	0.110%
224	13.475	13.433	13.489	HH	59251	1386486	5.31%	0.325%
225	13.511	13.489	13.526	HH	107271	1637659	6.27%	0.383%
226	13.535	13.526	13.568	HH	65019	1254969	4.81%	0.294%
227	13.579	13.568	13.596	HH	37303	554816	2.13%	0.130%
228	13.644	13.596	13.660	HH	1548929	21592296	82.71%	5.054%
229	13.679	13.660	13.692	HH	241516	2837276	10.87%	0.664%
230	13.706	13.692	13.738	HH	232764	3130213	11.99%	0.733%
231	13.759	13.738	13.771	HH	33974	630338	2.41%	0.148%
232	13.790	13.771	13.805	HH	87321	1208349	4.63%	0.283%
233	13.824	13.805	13.852	HH	118244	1877447	7.19%	0.439%
234	13.883	13.852	13.907	HH	131585	2114764	8.10%	0.495%
235	13.956	13.907	13.977	HH	67813	1875151	7.18%	0.439%
236	14.011	13.977	14.050	HH	84308	2210345	8.47%	0.517%
237	14.075	14.050	14.100	HH	121019	2191198	8.39%	0.513%
238	14.112	14.100	14.129	HH	35841	579204	2.22%	0.136%
239	14.208	14.129	14.245	HH	275057	5974430	22.89%	1.398%
240	14.266	14.245	14.284	HH	56614	1075545	4.12%	0.252%
241	14.312	14.284	14.335	HH	203460	3167095	12.13%	0.741%
242	14.356	14.335	14.375	HH	141724	2131155	8.16%	0.499%
243	14.410	14.375	14.430	HH	227040	4119628	15.78%	0.964%
244	14.440	14.430	14.446	HH	73977	681032	2.61%	0.159%
245	14.458	14.446	14.468	HH	83625	1027423	3.94%	0.240%
246	14.484	14.468	14.503	HH	128038	1884778	7.22%	0.441%

247	14.523	14.503	14.556	HH	125370	2281197	8.74%	0.534%
248	14.594	14.556	14.611	HH	77945	1847526	7.08%	0.432%
249	14.635	14.611	14.655	HH	56758	1391424	5.33%	0.326%
250	14.671	14.655	14.684	HH	49409	820441	3.14%	0.192%
251	14.701	14.684	14.717	HH	56904	970878	3.72%	0.227%
252	14.727	14.717	14.735	HH	47151	504653	1.93%	0.118%
253	14.743	14.735	14.768	HH	46456	911728	3.49%	0.213%
254	14.788	14.768	14.823	HH	47522	1406541	5.39%	0.329%
255	14.840	14.823	14.852	HH	42638	725022	2.78%	0.170%
256	14.876	14.852	14.886	HH	71079	1232064	4.72%	0.288%
257	14.904	14.886	14.920	HH	81172	1438495	5.51%	0.337%
258	14.939	14.920	14.961	HH	119703	2015867	7.72%	0.472%
259	14.974	14.961	14.983	HH	56623	742191	2.84%	0.174%
260	15.000	14.983	15.008	HH	61235	858573	3.29%	0.201%
261	15.039	15.008	15.084	HH	72671	2679598	10.26%	0.627%
262	15.117	15.084	15.153	HH	151819	3706381	14.20%	0.867%
263	15.180	15.153	15.205	HH	222789	4324746	16.57%	1.012%
264	15.221	15.205	15.230	HH	125771	1620445	6.21%	0.379%
265	15.243	15.230	15.270	HH	155298	2407665	9.22%	0.564%
266	15.304	15.270	15.340	HH	151460	3659536	14.02%	0.856%
267	15.364	15.340	15.397	HH	104717	2674047	10.24%	0.626%
268	15.404	15.397	15.415	HH	55338	569453	2.18%	0.133%
269	15.449	15.415	15.465	HH	99406	2190188	8.39%	0.513%
270	15.502	15.465	15.522	HH	871496	14267128	54.65%	3.339%
271	15.547	15.522	15.567	HH	783742	10381130	39.77%	2.430%
272	15.580	15.567	15.605	HH	70051	1478133	5.66%	0.346%
273	15.661	15.605	15.695	HH	269064	6123593	23.46%	1.433%
274	15.727	15.695	15.762	HH	136192	3439246	13.17%	0.805%
275	15.788	15.762	15.816	HH	130750	2947693	11.29%	0.690%
276	15.838	15.816	15.872	HH	122631	3433656	13.15%	0.804%
277	15.885	15.872	15.907	HH	96134	1764825	6.76%	0.413%
278	15.933	15.907	15.958	HH	94455	2558945	9.80%	0.599%
279	15.973	15.958	15.996	HH	83398	1703112	6.52%	0.399%
280	16.052	15.996	16.093	HH	87879	4486013	17.18%	1.050%
281	16.116	16.093	16.138	HH	104381	2427453	9.30%	0.568%
282	16.161	16.138	16.181	HH	199341	3380806	12.95%	0.791%
283	16.199	16.181	16.232	HH	135266	3114075	11.93%	0.729%
284	16.249	16.232	16.283	HH	120590	2940228	11.26%	0.688%
285	16.308	16.283	16.320	HH	170678	3007320	11.52%	0.704%
286	16.324	16.320	16.352	HH	159078	2272582	8.71%	0.532%
287	16.394	16.352	16.417	HH	126472	3774007	14.46%	0.883%
288	16.434	16.417	16.454	HH	84921	1786925	6.85%	0.418%
289	16.476	16.454	16.497	HH	111819	2407182	9.22%	0.563%
290	16.525	16.497	16.555	HH	279785	5327176	20.41%	1.247%
291	16.570	16.555	16.577	HH	99245	1273626	4.88%	0.298%
292	16.592	16.577	16.620	HH	107593	2451281	9.39%	0.574%
293	16.631	16.620	16.637	HH	84306	873440	3.35%	0.204%
294	16.654	16.637	16.673	HH	87614	1832294	7.02%	0.429%
295	16.685	16.673	16.700	HH	86902	1348669	5.17%	0.316%
296	16.749	16.700	16.774	HH	105538	4098215	15.70%	0.959%
297	16.791	16.774	16.809	HH	107657	2059516	7.89%	0.482%
298	16.834	16.809	16.878	HH	137219	4495672	17.22%	1.052%
299	16.905	16.878	16.933	HH	106759	3353762	12.85%	0.785%

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300	16.957	16.933	16.980	HH	140950	3347235	12.82%	0.783%
301	17.004	16.980	17.016	HH	119496	2440069	9.35%	0.571%
302	17.067	17.016	17.081	HH	776713	15700979	60.15%	3.675%
303	17.089	17.081	17.115	HH	517488	5852524	22.42%	1.370%
304	17.126	17.115	17.141	HH	110576	1722497	6.60%	0.403%
305	17.185	17.141	17.203	HH	277800	6091367	23.33%	1.426%
306	17.213	17.203	17.229	HH	138572	2036588	7.80%	0.477%
307	17.240	17.229	17.259	HH	123771	2112154	8.09%	0.494%
308	17.276	17.259	17.284	HH	123777	1832614	7.02%	0.429%
309	17.305	17.284	17.317	HH	139457	2635834	10.10%	0.617%
310	17.386	17.317	17.408	HH	563003	13813880	52.92%	3.233%
311	17.451	17.408	17.461	HHA	829208	13546539	51.89%	3.171%

Sum of corrected areas: 427267569

FE012325.M Mon Feb 03 02:19:51 2025

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-5.3-013025MSD	SDG No.:	Q1241
Lab Sample ID:	Q1241-05MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.3 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052182.D	1	01/31/25 08:50	01/31/25 17:40	PB166415

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	152000	E	207	1870	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.4		37 - 130	62%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance 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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052182.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 17:40
Operator : YP\AJ
Sample : Q1241-05MSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MSD

Integration File: autoint1.e
Quant Time: Feb 03 01:36:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
9)	S TETRACOSANE-d50 (SURR...	15.248	1234688	12.397	ug/ml
	Target Compounds				
2)	N-DECANE	4.978	1653958	18.075	ug/ml
3)	N-DODECANE	7.099	1805020	18.065	ug/ml
4)	N-TETRADECANE	8.852	403253	3.963	ug/ml
5)	N-HEXADECANE	10.433	725075	6.804	ug/ml
6)	N-OCTADECANE	11.869	119565	1.066	ug/ml
7)	N-EICOSANE	13.170	970798	8.716	ug/ml
8)	N-DOCOSANE	14.360	1318984	11.879	ug/ml
10)	N-TETRACOSANE	15.453	606157	5.480	ug/ml
11)	N-HEXACOSANE	16.478	426274	3.910	ug/ml
12)	N-OCTACOSANE	17.454	10079391	93.380	ug/ml

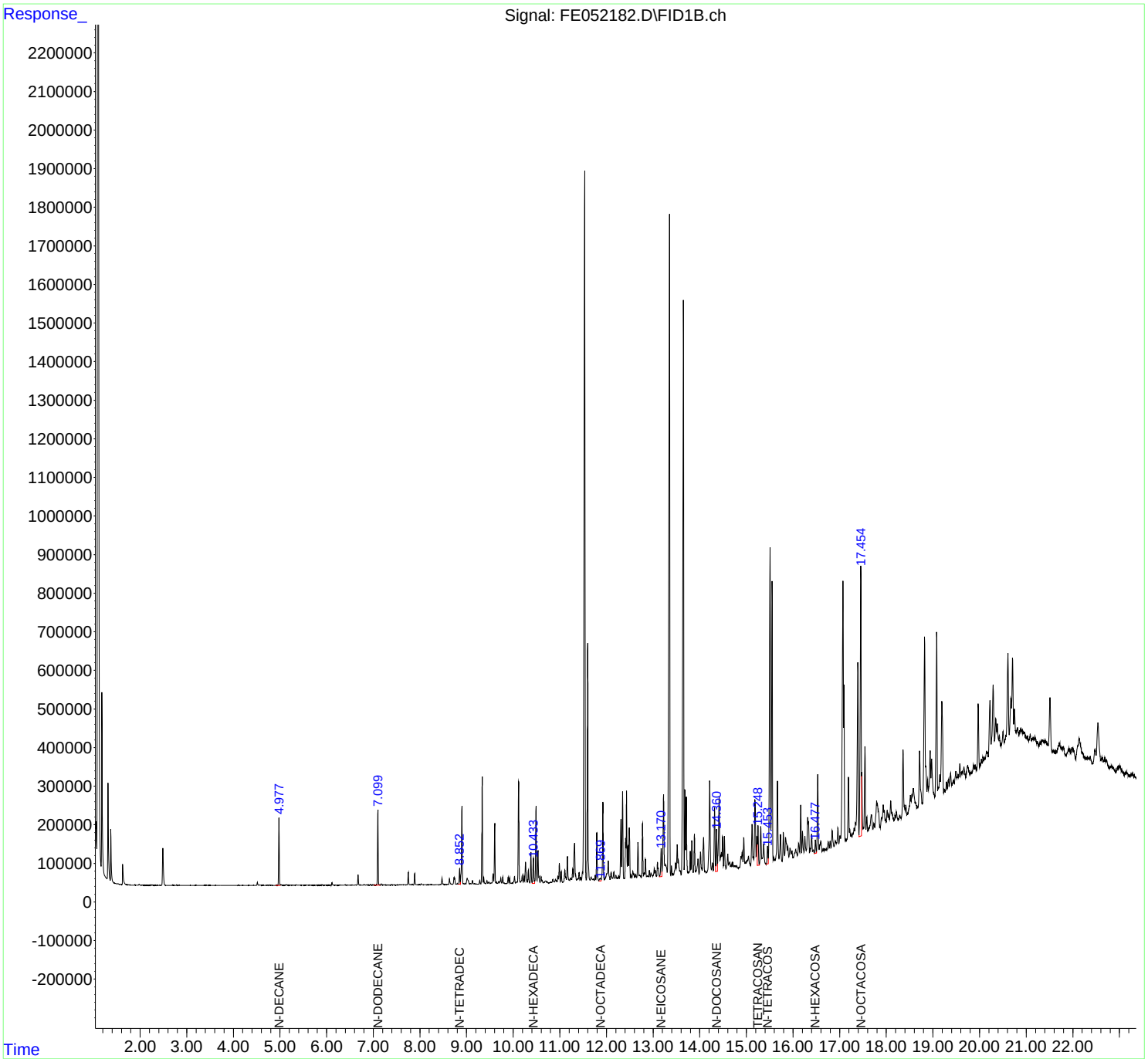
(f)=RT Delta > 1/2 Window (m)=manual int.

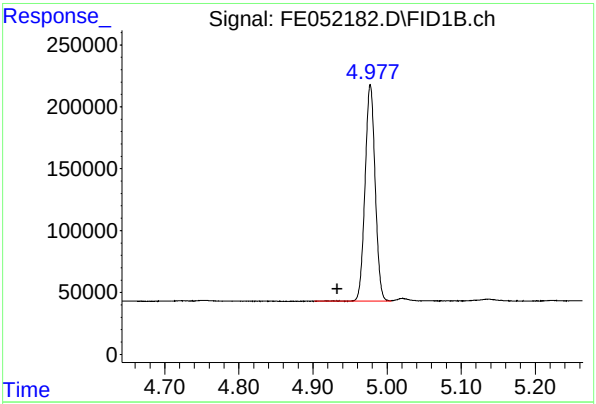
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052182.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 17:40
Operator : YP\AJ
Sample : Q1241-05MSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MSD

Integration File: autoint1.e
Quant Time: Feb 03 01:36:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

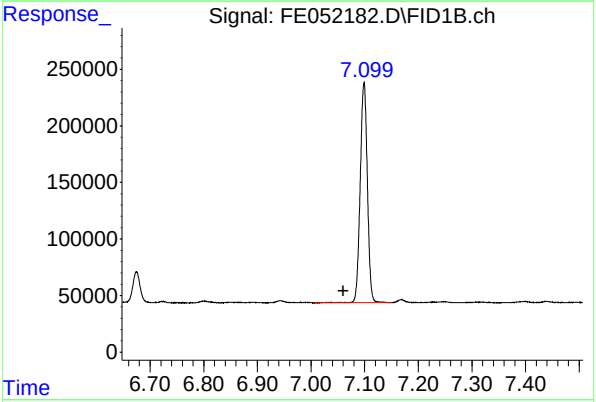




#2 N-DECANE

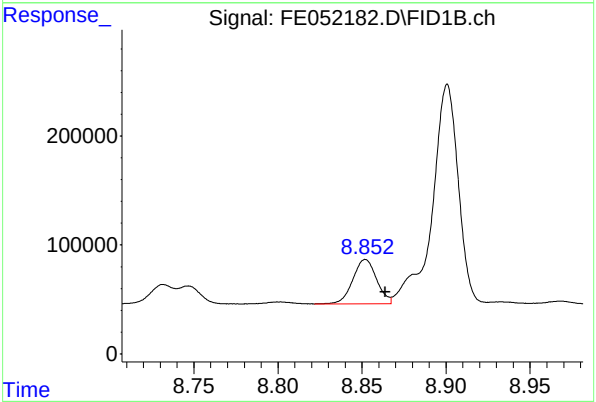
R.T.: 4.978 min
Delta R.T.: 0.045 min
Response: 1653958
Conc: 18.08 ug/ml

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MSD



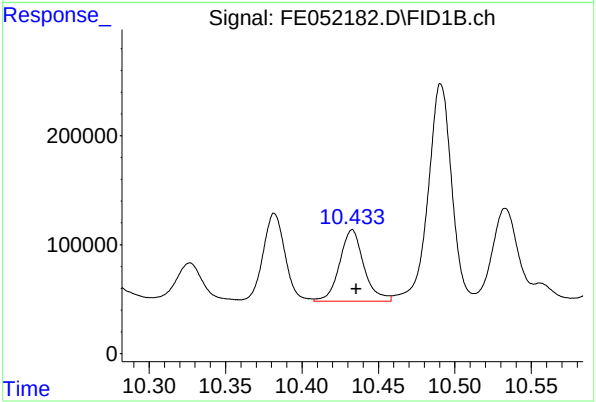
#3 N-DODECANE

R.T.: 7.099 min
Delta R.T.: 0.039 min
Response: 1805020
Conc: 18.07 ug/ml



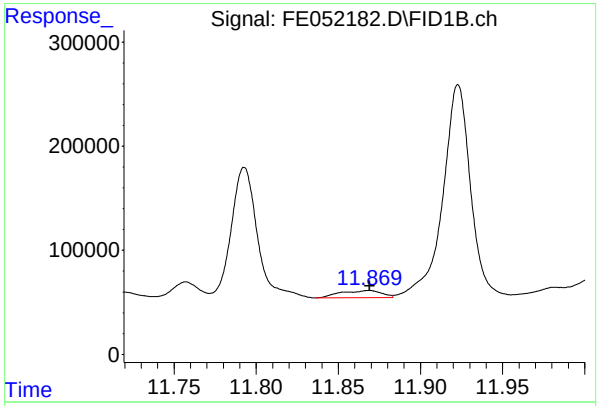
#4 N-TETRADECANE

R.T.: 8.852 min
Delta R.T.: -0.012 min
Response: 403253
Conc: 3.96 ug/ml



#5 N-HEXADECANE

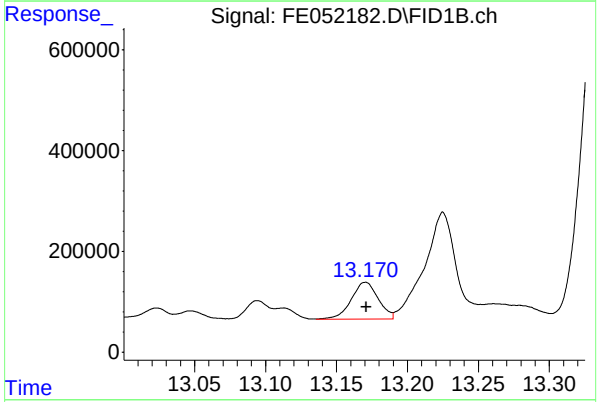
R.T.: 10.433 min
Delta R.T.: -0.003 min
Response: 725075
Conc: 6.80 ug/ml



#6 N-OCTADECANE

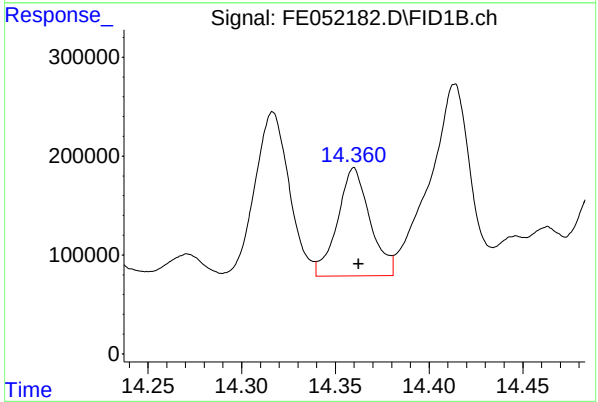
R.T.: 11.869 min
Delta R.T.: 0.000 min
Response: 119565
Conc: 1.07 ug/ml

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MSD



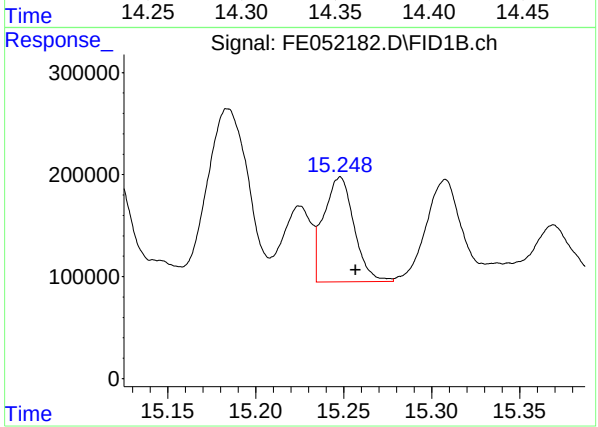
#7 N-EICOSANE

R.T.: 13.170 min
Delta R.T.: 0.000 min
Response: 970798
Conc: 8.72 ug/ml



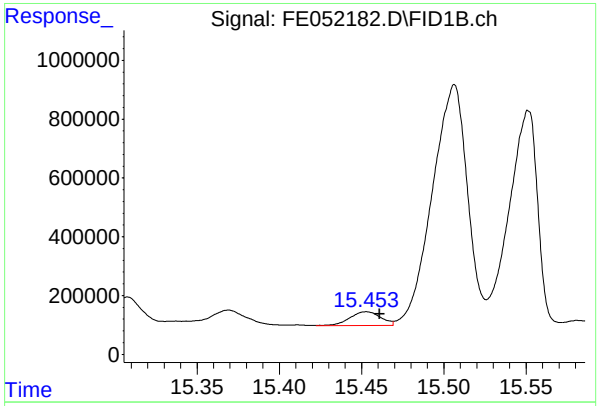
#8 N-DOCOSANE

R.T.: 14.360 min
Delta R.T.: -0.003 min
Response: 1318984
Conc: 11.88 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

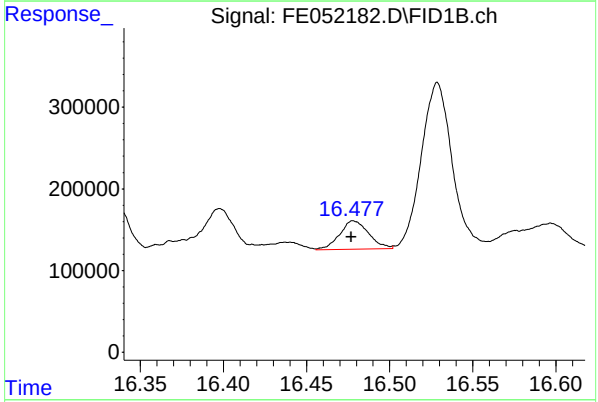
R.T.: 15.248 min
Delta R.T.: -0.009 min
Response: 1234688
Conc: 12.40 ug/ml



#10 N-TETRACOSANE

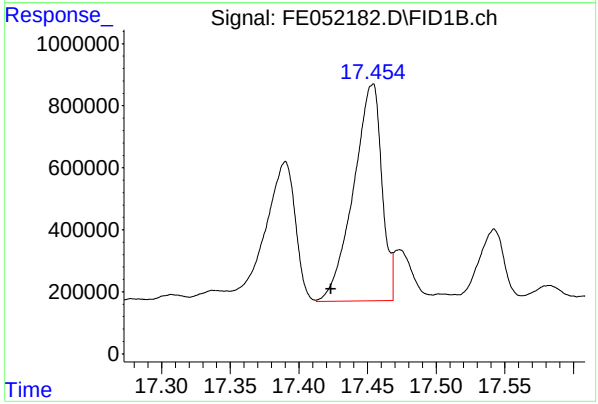
R.T.: 15.453 min
Delta R.T.: -0.008 min
Response: 606157
Conc: 5.48 ug/ml

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025MSD



#11 N-HEXACOSANE

R.T.: 16.478 min
Delta R.T.: 0.001 min
Response: 426274
Conc: 3.91 ug/ml



#12 N-OCTACOSANE

R.T.: 17.454 min
Delta R.T.: 0.030 min
Response: 10079391
Conc: 93.38 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052182.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 17:40
Sample : Q1241-05MSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.890	4.852	4.897	BH	-21	-1745	-0.01%	-0.000%
2	4.918	4.897	4.944	PH	188	1623	0.01%	0.000%
3	4.978	4.944	5.005	PH	174906	1654055	6.43%	0.382%
4	5.021	5.005	5.046	HH	2179	25035	0.10%	0.006%
5	5.051	5.046	5.076	HH	264	3969	0.02%	0.001%
6	5.083	5.076	5.088	HH	265	1425	0.01%	0.000%
7	5.092	5.088	5.104	HH	238	1856	0.01%	0.000%
8	5.137	5.104	5.172	HH	1666	29518	0.11%	0.007%
9	5.176	5.172	5.194	PH	154	1048	0.00%	0.000%
10	5.223	5.194	5.245	HH	502	8320	0.03%	0.002%
11	5.259	5.245	5.272	HH	388	4378	0.02%	0.001%
12	5.291	5.272	5.328	HH	495	9714	0.04%	0.002%
13	5.348	5.328	5.366	HH	763	10484	0.04%	0.002%
14	5.371	5.366	5.382	HH	419	3302	0.01%	0.001%
15	5.391	5.382	5.418	HH	507	8973	0.03%	0.002%
16	5.428	5.418	5.452	HH	319	4871	0.02%	0.001%
17	5.473	5.452	5.491	HH	476	6953	0.03%	0.002%
18	5.501	5.491	5.527	HH	324	4223	0.02%	0.001%
19	5.533	5.527	5.545	HH	118	701	0.00%	0.000%
20	5.564	5.545	5.585	PH	427	6103	0.02%	0.001%
21	5.594	5.585	5.607	HH	368	3952	0.02%	0.001%
22	5.619	5.607	5.640	HH	475	4793	0.02%	0.001%
23	5.646	5.640	5.658	HH	357	2794	0.01%	0.001%
24	5.665	5.658	5.672	HH	331	1901	0.01%	0.000%
25	5.677	5.672	5.688	HH	270	1849	0.01%	0.000%
26	5.690	5.688	5.705	HH	218	1190	0.00%	0.000%
27	5.737	5.705	5.752	PH	415	5487	0.02%	0.001%
28	5.772	5.752	5.798	HH	622	10053	0.04%	0.002%
29	5.813	5.798	5.856	PH	342	4057	0.02%	0.001%
30	5.860	5.856	5.876	HH	92	626	0.00%	0.000%
31	5.899	5.876	5.929	HH	2043	23417	0.09%	0.005%
32	5.933	5.929	5.942	HH	269	1505	0.01%	0.000%
33	5.946	5.942	5.952	HH	281	1086	0.00%	0.000%
34	5.963	5.952	5.969	HH	364	3023	0.01%	0.001%
35	5.974	5.969	6.011	HH	344	4260	0.02%	0.001%
36	6.015	6.011	6.019	HH	147	311	0.00%	0.000%

37	6.049	6.019	6.070	HH	281	3753	0.01%	0.001%
38	6.088	6.070	6.099	PH	1197	11154	0.04%	0.003%
39	6.115	6.099	6.166	HH	7713	84996	0.33%	0.020%
40	6.171	6.166	6.191	HH	269	3442	0.01%	0.001%
41	6.207	6.191	6.222	HH	590	6669	0.03%	0.002%
42	6.230	6.222	6.263	HH	276	5129	0.02%	0.001%
43	6.275	6.263	6.283	HH	407	3400	0.01%	0.001%
44	6.296	6.283	6.317	HH	853	11422	0.04%	0.003%
45	6.326	6.317	6.346	HH	689	8709	0.03%	0.002%
46	6.351	6.346	6.357	HH	474	2237	0.01%	0.001%
47	6.396	6.357	6.428	HH	1701	31398	0.12%	0.007%
48	6.446	6.428	6.463	HH	1140	13061	0.05%	0.003%
49	6.495	6.463	6.499	HH	573	8752	0.03%	0.002%
50	6.505	6.499	6.529	HH	702	10125	0.04%	0.002%
51	6.537	6.529	6.557	HH	749	9300	0.04%	0.002%
52	6.569	6.557	6.593	HH	670	9911	0.04%	0.002%
53	6.617	6.593	6.630	HH	1082	16719	0.06%	0.004%
54	6.643	6.630	6.649	HH	1150	11642	0.05%	0.003%
55	6.675	6.649	6.707	HH	27912	280664	1.09%	0.065%
56	6.723	6.707	6.741	HH	1759	21715	0.08%	0.005%
57	6.751	6.741	6.772	HH	647	9897	0.04%	0.002%
58	6.775	6.772	6.783	HH	548	3808	0.01%	0.001%
59	6.800	6.783	6.831	HH	2083	33730	0.13%	0.008%
60	6.848	6.831	6.878	HH	1062	22723	0.09%	0.005%
61	6.891	6.878	6.916	HH	1033	17883	0.07%	0.004%
62	6.943	6.916	6.963	HH	2388	35414	0.14%	0.008%
63	6.967	6.963	6.979	HH	794	7647	0.03%	0.002%
64	6.992	6.979	7.006	HH	885	12622	0.05%	0.003%
65	7.033	7.006	7.045	HH	874	16747	0.07%	0.004%
66	7.055	7.045	7.071	HH	909	12014	0.05%	0.003%
67	7.099	7.071	7.149	HH	195327	1829876	7.11%	0.422%
68	7.168	7.149	7.206	HH	3292	49944	0.19%	0.012%
69	7.226	7.206	7.236	HH	1172	17426	0.07%	0.004%
70	7.246	7.236	7.273	HH	1507	24367	0.09%	0.006%
71	7.312	7.273	7.353	HH	1210	40355	0.16%	0.009%
72	7.361	7.353	7.367	HH	737	5779	0.02%	0.001%
73	7.397	7.367	7.422	HH	1761	37243	0.14%	0.009%
74	7.439	7.422	7.475	HH	1854	35288	0.14%	0.008%
75	7.492	7.475	7.507	HH	999	16430	0.06%	0.004%
76	7.522	7.507	7.541	HH	2087	29176	0.11%	0.007%
77	7.561	7.541	7.577	HH	1953	28948	0.11%	0.007%
78	7.591	7.577	7.607	HH	1441	23286	0.09%	0.005%
79	7.635	7.607	7.646	HH	1673	33686	0.13%	0.008%
80	7.656	7.646	7.671	HH	1838	24582	0.10%	0.006%
81	7.686	7.671	7.714	HH	1852	38381	0.15%	0.009%
82	7.751	7.714	7.777	HH	33425	357192	1.39%	0.082%
83	7.808	7.777	7.834	HH	2264	63315	0.25%	0.015%
84	7.843	7.834	7.866	HH	2062	32099	0.12%	0.007%
85	7.888	7.866	7.921	HH	31037	323911	1.26%	0.075%
86	7.931	7.921	7.949	HH	1851	27058	0.11%	0.006%
87	7.966	7.949	7.972	HH	1481	18469	0.07%	0.004%
88	7.980	7.972	7.992	HH	1508	16054	0.06%	0.004%
89	8.030	7.992	8.077	HH	4513	108068	0.42%	0.025%

90	8.114	8.077	8.127	HH	1929	53655	0.21%	0.012%
91	8.136	8.127	8.172	HH	1785	40969	0.16%	0.009%
92	8.187	8.172	8.199	HH	1651	24464	0.10%	0.006%
93	8.224	8.199	8.234	HH	2133	38563	0.15%	0.009%
94	8.247	8.234	8.306	HH	2180	71080	0.28%	0.016%
95	8.333	8.306	8.339	HH	1971	32353	0.13%	0.007%
96	8.349	8.339	8.377	HH	1885	41343	0.16%	0.010%
97	8.380	8.377	8.392	HH	1756	14806	0.06%	0.003%
98	8.399	8.392	8.412	HH	1598	17618	0.07%	0.004%
99	8.435	8.412	8.451	HH	2293	46996	0.18%	0.011%
100	8.475	8.451	8.502	HH	19135	232136	0.90%	0.054%
101	8.508	8.502	8.540	HH	2684	52401	0.20%	0.012%
102	8.557	8.540	8.569	HH	2616	41208	0.16%	0.010%
103	8.581	8.569	8.587	HH	2496	24497	0.10%	0.006%
104	8.597	8.587	8.612	HH	2838	39589	0.15%	0.009%
105	8.634	8.612	8.670	HH	17144	254646	0.99%	0.059%
106	8.681	8.670	8.700	HH	3573	54078	0.21%	0.012%
107	8.732	8.700	8.740	HH	20635	236624	0.92%	0.055%
108	8.747	8.740	8.771	HH	19262	200082	0.78%	0.046%
109	8.774	8.771	8.779	HH	2966	14358	0.06%	0.003%
110	8.801	8.779	8.822	HH	4589	90677	0.35%	0.021%
111	8.852	8.822	8.867	HH	43834	481351	1.87%	0.111%
112	8.901	8.867	8.925	HH	204728	2278125	8.86%	0.525%
113	8.933	8.925	8.950	HH	4659	62080	0.24%	0.014%
114	8.968	8.950	8.984	HH	5323	83767	0.33%	0.019%
115	9.015	8.984	9.070	HH	19249	519411	2.02%	0.120%
116	9.085	9.070	9.110	HH	4976	100032	0.39%	0.023%
117	9.128	9.110	9.157	HH	12859	188583	0.73%	0.043%
118	9.169	9.157	9.186	HH	4763	70785	0.28%	0.016%
119	9.200	9.186	9.222	HH	3609	72839	0.28%	0.017%
120	9.235	9.222	9.242	HH	3163	37822	0.15%	0.009%
121	9.284	9.242	9.307	HH	13173	225355	0.88%	0.052%
122	9.336	9.307	9.357	HH	282381	2783724	10.82%	0.642%
123	9.369	9.357	9.417	HH	21121	331067	1.29%	0.076%
124	9.439	9.417	9.460	HH	12582	203635	0.79%	0.047%
125	9.477	9.460	9.506	HH	8415	177594	0.69%	0.041%
126	9.519	9.506	9.527	HH	5796	66856	0.26%	0.015%
127	9.539	9.527	9.546	HH	6142	68203	0.27%	0.016%
128	9.571	9.546	9.586	HH	30337	429889	1.67%	0.099%
129	9.605	9.586	9.627	HH	160395	1598935	6.22%	0.369%
130	9.638	9.627	9.666	HH	9423	163246	0.63%	0.038%
131	9.690	9.666	9.704	HH	10069	163932	0.64%	0.038%
132	9.736	9.704	9.754	HH	18994	332318	1.29%	0.077%
133	9.778	9.754	9.799	HH	22374	311271	1.21%	0.072%
134	9.805	9.799	9.825	HH	5858	80170	0.31%	0.018%
135	9.838	9.825	9.857	HH	5049	84905	0.33%	0.020%
136	9.893	9.857	9.910	HH	21337	329333	1.28%	0.076%
137	9.925	9.910	9.957	HH	20288	282702	1.10%	0.065%
138	9.982	9.957	9.993	HH	6056	121078	0.47%	0.028%
139	10.030	9.993	10.051	HH	22894	415425	1.61%	0.096%
140	10.069	10.051	10.078	HH	8674	120468	0.47%	0.028%
141	10.086	10.078	10.091	HH	8581	64469	0.25%	0.015%

142	10.117	10.091	10.156	HH	269344	2853100	11.09%	0.658%
143	10.195	10.156	10.218	HH	25628	533642	2.07%	0.123%
144	10.234	10.218	10.247	HH	24769	291950	1.13%	0.067%
145	10.267	10.247	10.302	HH	60465	908183	3.53%	0.209%
146	10.327	10.302	10.361	HH	40338	627401	2.44%	0.145%
147	10.382	10.361	10.408	HH	85642	951741	3.70%	0.220%
148	10.433	10.408	10.458	HH	71141	879548	3.42%	0.203%
149	10.491	10.458	10.513	HH	204738	2311399	8.98%	0.533%
150	10.533	10.513	10.578	HH	90373	1348112	5.24%	0.311%
151	10.597	10.578	10.615	HH	22361	332482	1.29%	0.077%
152	10.625	10.615	10.647	HH	11850	179774	0.70%	0.041%
153	10.693	10.647	10.719	HH	11486	399195	1.55%	0.092%
154	10.731	10.719	10.763	HH	9808	194620	0.76%	0.045%
155	10.795	10.763	10.807	HH	7944	184925	0.72%	0.043%
156	10.815	10.807	10.827	HH	7990	90970	0.35%	0.021%
157	10.850	10.827	10.873	HH	15469	295287	1.15%	0.068%
158	10.881	10.873	10.891	HH	9631	99652	0.39%	0.023%
159	10.907	10.891	10.920	HH	15526	219361	0.85%	0.051%
160	10.927	10.920	10.939	HH	11907	123058	0.48%	0.028%
161	10.958	10.939	10.971	HH	24323	336088	1.31%	0.078%
162	10.992	10.971	11.013	HH	57198	823770	3.20%	0.190%
163	11.032	11.013	11.062	HH	35872	526935	2.05%	0.122%
164	11.107	11.062	11.125	HH	39702	745386	2.90%	0.172%
165	11.131	11.125	11.144	HH	21202	220167	0.86%	0.051%
166	11.164	11.144	11.198	HH	75028	1104081	4.29%	0.255%
167	11.204	11.198	11.211	HH	13725	107951	0.42%	0.025%
168	11.227	11.211	11.236	HH	18664	241504	0.94%	0.056%
169	11.244	11.236	11.254	HH	17216	173822	0.68%	0.040%
170	11.276	11.254	11.289	HH	42931	613220	2.38%	0.141%
171	11.318	11.289	11.337	HH	109704	1877245	7.30%	0.433%
172	11.341	11.337	11.360	HH	27695	291626	1.13%	0.067%
173	11.383	11.360	11.392	HH	17391	306122	1.19%	0.071%
174	11.413	11.392	11.432	HH	33250	542369	2.11%	0.125%
175	11.446	11.432	11.468	HH	20743	375740	1.46%	0.087%
176	11.488	11.468	11.494	HH	34930	421136	1.64%	0.097%
177	11.534	11.494	11.566	HH	1854896	24234629	94.20%	5.590%
178	11.598	11.566	11.649	HH	627392	7234087	28.12%	1.669%
179	11.673	11.649	11.707	HH	21530	582779	2.27%	0.134%
180	11.719	11.707	11.738	HH	16675	283272	1.10%	0.065%
181	11.757	11.738	11.772	HH	26671	393933	1.53%	0.091%
182	11.793	11.772	11.836	HH	136576	1819554	7.07%	0.420%
183	11.869	11.836	11.883	HH	18526	439532	1.71%	0.101%
184	11.923	11.883	11.956	HH	216088	2927931	11.38%	0.675%
185	11.982	11.956	11.987	HH	21437	340798	1.32%	0.079%
186	12.036	11.987	12.078	HH	63527	1722594	6.70%	0.397%
187	12.100	12.078	12.129	HH	34319	718872	2.79%	0.166%
188	12.161	12.129	12.182	HH	35068	747361	2.91%	0.172%
189	12.201	12.182	12.224	HH	25844	536232	2.08%	0.124%
190	12.238	12.224	12.248	HH	20155	278853	1.08%	0.064%
191	12.263	12.248	12.279	HH	25128	390833	1.52%	0.090%
192	12.312	12.279	12.327	HH	170981	2205307	8.57%	0.509%
193	12.344	12.327	12.372	HH	242731	2815489	10.94%	0.649%
194	12.379	12.372	12.387	HH	17741	154093	0.60%	0.036%

195	12.410	12.387	12.418	HH	122127	1345693	5.23%	0.310%
196	12.432	12.418	12.448	HH	244386	2666770	10.37%	0.615%
197	12.461	12.448	12.473	HH	102327	1186075	4.61%	0.274%
198	12.491	12.473	12.512	HH	149299	1935150	7.52%	0.446%
199	12.525	12.512	12.541	HH	27463	393627	1.53%	0.091%
200	12.563	12.541	12.577	HH	37170	631097	2.45%	0.146%
201	12.585	12.577	12.606	HH	30473	459018	1.78%	0.106%
202	12.626	12.606	12.646	HH	28321	571994	2.22%	0.132%
203	12.673	12.646	12.694	HH	111642	1606000	6.24%	0.370%
204	12.700	12.694	12.710	HH	26200	240757	0.94%	0.056%
205	12.718	12.710	12.746	HH	25895	518004	2.01%	0.119%
206	12.773	12.746	12.794	HH	160953	2043323	7.94%	0.471%
207	12.808	12.794	12.817	HH	32600	419531	1.63%	0.097%
208	12.834	12.817	12.857	HH	68053	1000058	3.89%	0.231%
209	12.871	12.857	12.878	HH	24283	287112	1.12%	0.066%
210	12.883	12.878	12.901	HH	24226	320794	1.25%	0.074%
211	12.921	12.901	12.942	HH	38868	729870	2.84%	0.168%
212	12.959	12.942	12.991	HH	31470	771316	3.00%	0.178%
213	13.023	12.991	13.036	HH	44467	888894	3.46%	0.205%
214	13.047	13.036	13.075	HH	38897	723698	2.81%	0.167%
215	13.094	13.075	13.107	HH	58963	824229	3.20%	0.190%
216	13.112	13.107	13.136	HH	44717	597853	2.32%	0.138%
217	13.170	13.136	13.190	HH	95699	1700201	6.61%	0.392%
218	13.225	13.190	13.254	HH	235213	4237559	16.47%	0.977%
219	13.261	13.254	13.301	HH	53228	1340248	5.21%	0.309%
220	13.351	13.301	13.377	HH	1726104	25726613	100.00%	5.934%
221	13.393	13.377	13.410	HH	50311	728368	2.83%	0.168%
222	13.423	13.410	13.438	HH	31370	491104	1.91%	0.113%
223	13.479	13.438	13.493	HH	58023	1410087	5.48%	0.325%
224	13.515	13.493	13.530	HH	106112	1629013	6.33%	0.376%
225	13.538	13.530	13.572	HH	66697	1297579	5.04%	0.299%
226	13.583	13.572	13.602	HH	38217	597090	2.32%	0.138%
227	13.649	13.602	13.665	HH	1514485	21271547	82.68%	4.906%
228	13.683	13.665	13.697	HH	247362	2822055	10.97%	0.651%
229	13.711	13.697	13.744	HH	229451	3155153	12.26%	0.728%
230	13.764	13.744	13.774	HH	35490	610937	2.37%	0.141%
231	13.795	13.774	13.809	HH	88733	1261339	4.90%	0.291%
232	13.829	13.809	13.860	HH	116313	1963987	7.63%	0.453%
233	13.887	13.860	13.912	HH	132563	2100590	8.17%	0.485%
234	13.961	13.912	13.983	HH	68736	1971712	7.66%	0.455%
235	14.016	13.983	14.055	HH	86696	2261974	8.79%	0.522%
236	14.080	14.055	14.105	HH	124364	2234525	8.69%	0.515%
237	14.116	14.105	14.136	HH	37234	643534	2.50%	0.148%
238	14.212	14.136	14.251	HH	271342	6040221	23.48%	1.393%
239	14.271	14.251	14.290	HH	58181	1129827	4.39%	0.261%
240	14.317	14.290	14.340	HH	201909	3185407	12.38%	0.735%
241	14.360	14.340	14.381	HH	145606	2202100	8.56%	0.508%
242	14.414	14.381	14.434	HH	229962	4119058	16.01%	0.950%
243	14.446	14.434	14.452	HH	76481	786388	3.06%	0.181%
244	14.463	14.452	14.473	HH	86015	1004351	3.90%	0.232%
245	14.488	14.473	14.508	HH	126433	1907521	7.41%	0.440%
246	14.528	14.508	14.562	HH	128079	2379712	9.25%	0.549%

247	14.599	14.562	14.616	HH	81637	1947606	7.57%	0.449%
248	14.642	14.616	14.661	HH	60314	1486095	5.78%	0.343%
249	14.676	14.661	14.688	HH	53579	840865	3.27%	0.194%
250	14.705	14.688	14.722	HH	60062	1100899	4.28%	0.254%
251	14.733	14.722	14.742	HH	50776	595305	2.31%	0.137%
252	14.758	14.742	14.777	HH	50940	1012217	3.93%	0.233%
253	14.792	14.777	14.826	HH	51562	1398943	5.44%	0.323%
254	14.841	14.826	14.856	HH	47294	824331	3.20%	0.190%
255	14.880	14.856	14.891	HH	75083	1320727	5.13%	0.305%
256	14.907	14.891	14.926	HH	86243	1576745	6.13%	0.364%
257	14.944	14.926	14.965	HH	122928	2044867	7.95%	0.472%
258	14.975	14.965	14.990	HH	60149	863384	3.36%	0.199%
259	15.004	14.990	15.010	HH	63920	765753	2.98%	0.177%
260	15.044	15.010	15.090	HH	75276	2985781	11.61%	0.689%
261	15.121	15.090	15.158	HH	158132	3812210	14.82%	0.879%
262	15.184	15.158	15.208	HH	221266	4307309	16.74%	0.993%
263	15.225	15.208	15.234	HH	126069	1667769	6.48%	0.385%
264	15.248	15.234	15.278	HH	155087	2595442	10.09%	0.599%
265	15.308	15.278	15.332	HH	152432	3094902	12.03%	0.714%
266	15.369	15.332	15.405	HH	107842	3391374	13.18%	0.782%
267	15.411	15.405	15.422	HH	57551	593350	2.31%	0.137%
268	15.453	15.422	15.469	HH	102250	2161994	8.40%	0.499%
269	15.506	15.469	15.526	HH	875199	14107844	54.84%	3.254%
270	15.551	15.526	15.572	HH	785666	10312423	40.08%	2.379%
271	15.582	15.572	15.607	HH	72579	1468712	5.71%	0.339%
272	15.665	15.607	15.698	HH	270199	6275198	24.39%	1.447%
273	15.731	15.698	15.768	HH	132128	3653861	14.20%	0.843%
274	15.792	15.768	15.818	HH	136478	2874277	11.17%	0.663%
275	15.840	15.818	15.875	HH	123660	3583292	13.93%	0.827%
276	15.888	15.875	15.909	HH	101308	1804501	7.01%	0.416%
277	15.936	15.909	15.960	HH	96520	2648084	10.29%	0.611%
278	15.978	15.960	15.997	HH	89467	1779194	6.92%	0.410%
279	16.055	15.997	16.092	HH	93664	4671732	18.16%	1.078%
280	16.119	16.092	16.141	HH	109667	2805446	10.90%	0.647%
281	16.164	16.141	16.184	HH	208403	3527108	13.71%	0.814%
282	16.201	16.184	16.235	HH	140728	3284679	12.77%	0.758%
283	16.254	16.235	16.287	HH	127008	3146095	12.23%	0.726%
284	16.314	16.287	16.325	HH	176196	3228850	12.55%	0.745%
285	16.329	16.325	16.354	HH	165939	2279083	8.86%	0.526%
286	16.398	16.354	16.421	HH	133003	4078404	15.85%	0.941%
287	16.438	16.421	16.456	HH	91662	1864216	7.25%	0.430%
288	16.478	16.456	16.501	HH	117918	2691508	10.46%	0.621%
289	16.529	16.501	16.559	HH	287496	5534246	21.51%	1.276%
290	16.597	16.559	16.621	HH	115180	3830310	14.89%	0.883%
291	16.642	16.621	16.650	HH	92462	1564425	6.08%	0.361%
292	16.659	16.650	16.675	HH	94618	1401571	5.45%	0.323%
293	16.691	16.675	16.704	HH	94725	1612215	6.27%	0.372%
294	16.717	16.704	16.725	HH	94087	1156714	4.50%	0.267%
295	16.754	16.725	16.776	HH	112338	3154920	12.26%	0.728%
296	16.795	16.776	16.813	HH	114923	2351406	9.14%	0.542%
297	16.839	16.813	16.878	HH	142682	4539375	17.64%	1.047%
298	16.907	16.878	16.933	HH	115775	3567350	13.87%	0.823%
299	16.962	16.933	16.984	HH	148582	3878410	15.08%	0.895%

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300	17.006	16.984	17.022	HH	128521	2733705	10.63%	0.631%
301	17.070	17.022	17.085	HH	787244	15737693	61.17%	3.630%
302	17.093	17.085	17.120	HH	519694	6029801	23.44%	1.391%
303	17.134	17.120	17.147	HH	119684	1886059	7.33%	0.435%
304	17.188	17.147	17.207	HH	280539	6330112	24.61%	1.460%
305	17.217	17.207	17.235	HH	146304	2251555	8.75%	0.519%
306	17.247	17.235	17.267	HH	133467	2532480	9.84%	0.584%
307	17.278	17.267	17.290	HH	135018	1793902	6.97%	0.414%
308	17.307	17.290	17.320	HH	148777	2587042	10.06%	0.597%
309	17.338	17.320	17.350	HH	161353	2743570	10.66%	0.633%
310	17.390	17.350	17.413	HH	576614	11657904	45.31%	2.689%
311	17.454	17.413	17.461	HHA	826826	12839561	49.91%	2.961%

Sum of corrected areas: 433549302

FE012325.M Mon Feb 03 02:20:30 2025

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

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
I.BLK		FE052167.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:08:00 PM	Peak Integrated by Software incorrectly
PB166415BS		FE052172.D	FE013125	N-OCTADECANE	Ankita	2/3/2025 1:07:23 PM	Peak Integrated by Software incorrectly
PB166415BS		FE052172.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:23 PM	Peak Integrated by Software incorrectly
Q1241-13		FE052176.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:25 PM	Peak Integrated by Software incorrectly
Q1242-01		FE052178.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:26 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052180.D	FE013125	N-OCTACOSANE	Ankita	2/3/2025 1:07:28 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052180.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:28 PM	Peak Integrated by Software incorrectly
Q1241-05		FE052184.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:30 PM	Peak Integrated by Software incorrectly
Q1241-09		FE052185.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:31 PM	Peak Integrated by Software incorrectly
Q1241-17		FE052187.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:33 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052190.D	FE013125	N-OCTACOSANE	Ankita	2/3/2025 1:07:34 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052192.D	FE013125	N-DOTRIACONTANE	Ankita	2/3/2025 1:07:35 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052192.D	FE013125	N-OCTACOSANE	Ankita	2/3/2025 1:07:35 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052192.D	FE013125	N-TRIACONTANE	Ankita	2/3/2025 1:07:35 PM	Peak Integrated by Software incorrectly
PB166433BS		FE052195.D	FE013125	N-DOTRIACONTANE	Ankita	2/3/2025 1:07:37 PM	Peak Integrated by Software incorrectly
Q1236-01MS		FE052197.D	FE013125	N-HEXATRIACONTANE	Ankita	2/3/2025 1:07:39 PM	Peak Integrated by Software incorrectly
Q1236-01MS		FE052197.D	FE013125	N-OCTACOSANE	Ankita	2/3/2025 1:07:39 PM	Peak Integrated by Software incorrectly
Q1236-01MS		FE052197.D	FE013125	N-OCTADECANE	Ankita	2/3/2025 1:07:39 PM	Peak Integrated by Software incorrectly
Q1236-01MS		FE052197.D	FE013125	N-TETRATRIACONTANE	Ankita	2/3/2025 1:07:39 PM	Peak Integrated by Software incorrectly
Q1236-01MSD		FE052198.D	FE013125	N-HEXATRIACONTANE	Ankita	2/3/2025 1:07:40 PM	Peak Integrated by Software incorrectly
Q1236-01MSD		FE052198.D	FE013125	N-OCTACOSANE	Ankita	2/3/2025 1:07:40 PM	Peak Integrated by Software incorrectly
Q1236-01MSD		FE052198.D	FE013125	N-OCTADECANE	Ankita	2/3/2025 1:07:40 PM	Peak Integrated by Software incorrectly

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Manual Integration Report

.BLK		FE052200.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:42 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052201.D	FE013125	N-DOTRIACONTANE	Ankita	2/3/2025 1:07:43 PM	Peak Integrated by Software incorrectly

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

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE012325

Review By	yogesh	Review On	1/23/2025 3:09:47 PM		
Supervise By	sohil	Supervise On	1/24/2025 2:02:13 PM		
SubDirectory	FE012325	HP Acquire Method		HP Processing Method	FE012325

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC	PP23963
Internal Standard/PEM	
ICV/I.BLK	PP23962,PP23967
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE052025.D	23 Jan 2025 21:06	YP\AJ	Ok
2	I.BLK	FE052026.D	23 Jan 2025 21:35	YP\AJ	Ok
3	100 TRPH STD	FE052027.D	23 Jan 2025 22:06	YP\AJ	Ok
4	50 TRPH STD	FE052028.D	23 Jan 2025 23:06	YP\AJ	Ok
5	20 TRPH STD	FE052029.D	23 Jan 2025 23:36	YP\AJ	Ok
6	10 TRPH STD	FE052030.D	24 Jan 2025 00:06	YP\AJ	Ok
7	5 TRPH STD	FE052031.D	24 Jan 2025 00:36	YP\AJ	Ok
8	FE012325ICV	FE052032.D	24 Jan 2025 01:06	YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE013125

Review By	yogesh	Review On	1/31/2025 12:39:58 PM		
Supervise By	Ankita	Supervise On	2/3/2025 1:08:07 PM		
SubDirectory	FE013125	HP Acquire Method		HP Processing Method	FE012325

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC	PP23963
Internal Standard/PEM	
ICV/I.BLK	PP23962,PP23967
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE052166.D	31 Jan 2025 09:26	YP\AJ	Ok
2	I.BLK	FE052167.D	31 Jan 2025 09:56	YP\AJ	Ok,M
3	50 PPM TRPH STD	FE052168.D	31 Jan 2025 10:26	YP\AJ	Ok
4	RT MARKER	FE052169.D	31 Jan 2025 11:07	YP\AJ	Ok
5	PP24162	FE052170.D	31 Jan 2025 11:37	YP\AJ	Ok
6	PB166415BL	FE052171.D	31 Jan 2025 12:08	YP\AJ	Ok
7	PB166415BS	FE052172.D	31 Jan 2025 12:38	YP\AJ	Ok,M
8	Q1241-01	FE052173.D	31 Jan 2025 13:08	YP\AJ	Dilution
9	Q1241-05	FE052174.D	31 Jan 2025 13:38	YP\AJ	Dilution
10	Q1241-09	FE052175.D	31 Jan 2025 14:08	YP\AJ	Dilution
11	Q1241-13	FE052176.D	31 Jan 2025 14:39	YP\AJ	Dilution
12	Q1241-17	FE052177.D	31 Jan 2025 15:09	YP\AJ	Dilution
13	Q1242-01	FE052178.D	31 Jan 2025 15:39	YP\AJ	Dilution
14	I.BLK	FE052179.D	31 Jan 2025 16:09	YP\AJ	Ok
15	50 PPM TRPH STD	FE052180.D	31 Jan 2025 16:40	YP\AJ	Ok,M
16	Q1241-05MS	FE052181.D	31 Jan 2025 17:10	YP\AJ	Ok
17	Q1241-05MSD	FE052182.D	31 Jan 2025 17:40	YP\AJ	Ok
18	Q1241-01	FE052183.D	31 Jan 2025 18:11	YP\AJ	Ok
19	Q1241-05	FE052184.D	31 Jan 2025 18:41	YP\AJ	Ok,M
20	Q1241-09	FE052185.D	31 Jan 2025 19:11	YP\AJ	Ok,M
21	Q1241-13	FE052186.D	31 Jan 2025 19:41	YP\AJ	Ok

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

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE013125

Review By	yogesh	Review On	1/31/2025 12:39:58 PM		
Supervise By	Ankita	Supervise On	2/3/2025 1:08:07 PM		
SubDirectory	FE013125	HP Acquire Method		HP Processing Method	FE012325

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC	PP23963
Internal Standard/PEM	
ICV/I.BLK	PP23962,PP23967
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1241-17	FE052187.D	31 Jan 2025 20:12	YP\AJ	Ok,M
23	Q1242-01	FE052188.D	31 Jan 2025 20:42	YP\AJ	Ok
24	I.BLK	FE052189.D	31 Jan 2025 21:12	YP\AJ	Ok
25	50 PPM TRPH STD	FE052190.D	31 Jan 2025 22:12	YP\AJ	Ok,M
26	I.BLK	FE052191.D	31 Jan 2025 23:13	YP\AJ	Ok
27	50 PPM TRPH STD	FE052192.D	01 Feb 2025 00:13	YP\AJ	Ok,M
28	RT MARKER	FE052193.D	01 Feb 2025 01:14	YP\AJ	Ok
29	PB166433BL	FE052194.D	01 Feb 2025 02:14	YP\AJ	Ok
30	PB166433BS	FE052195.D	01 Feb 2025 02:44	YP\AJ	Ok,M
31	Q1236-01	FE052196.D	01 Feb 2025 03:15	YP\AJ	Ok
32	Q1236-01MS	FE052197.D	01 Feb 2025 03:45	YP\AJ	Ok,M
33	Q1236-01MSD	FE052198.D	01 Feb 2025 04:15	YP\AJ	Ok,M
34	Q1236-01	FE052199.D	01 Feb 2025 04:45	YP\AJ	Not Ok
35	I.BLK	FE052200.D	01 Feb 2025 05:15	YP\AJ	Ok,M
36	50 PPM TRPH STD	FE052201.D	01 Feb 2025 06:15	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_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE012325

Review By	yogesh	Review On	1/23/2025 3:09:47 PM		
Supervise By	sohil	Supervise On	1/24/2025 2:02:13 PM		
SubDirectory	FE012325	HP Acquire Method		HP Processing Method	FE012325

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC	PP23963
Internal Standard/PEM	
ICV/I.BLK	PP23962,PP23967
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FE052025.D	23 Jan 2025 21:06		YP\AJ	Ok
2	I.BLK		FE052026.D	23 Jan 2025 21:35		YP\AJ	Ok
3	100 TRPH STD		FE052027.D	23 Jan 2025 22:06		YP\AJ	Ok
4	50 TRPH STD		FE052028.D	23 Jan 2025 23:06		YP\AJ	Ok
5	20 TRPH STD		FE052029.D	23 Jan 2025 23:36		YP\AJ	Ok
6	10 TRPH STD		FE052030.D	24 Jan 2025 00:06		YP\AJ	Ok
7	5 TRPH STD		FE052031.D	24 Jan 2025 00:36		YP\AJ	Ok
8	FE012325ICV		FE052032.D	24 Jan 2025 01:06		YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE013125

Review By	yogesh	Review On	1/31/2025 12:39:58 PM		
Supervise By	Ankita	Supervise On	2/3/2025 1:08:07 PM		
SubDirectory	FE013125	HP Acquire Method		HP Processing Method	FE012325

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC	PP23963
Internal Standard/PEM	
ICV/I.BLK	PP23962,PP23967
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FE052166.D	31 Jan 2025 09:26		YP\AJ	Ok
2	I.BLK		FE052167.D	31 Jan 2025 09:56		YP\AJ	Ok,M
3	50 PPM TRPH STD		FE052168.D	31 Jan 2025 10:26		YP\AJ	Ok
4	RT MARKER		FE052169.D	31 Jan 2025 11:07		YP\AJ	Ok
5	PP24162		FE052170.D	31 Jan 2025 11:37		YP\AJ	Ok
6	PB166415BL		FE052171.D	31 Jan 2025 12:08		YP\AJ	Ok
7	PB166415BS		FE052172.D	31 Jan 2025 12:38		YP\AJ	Ok,M
8	Q1241-01		FE052173.D	31 Jan 2025 13:08	need 10x dilution	YP\AJ	Dilution
9	Q1241-05		FE052174.D	31 Jan 2025 13:38	need 10x dilution	YP\AJ	Dilution
10	Q1241-09		FE052175.D	31 Jan 2025 14:08	need 10x dilution	YP\AJ	Dilution
11	Q1241-13		FE052176.D	31 Jan 2025 14:39	need 10x dilution	YP\AJ	Dilution
12	Q1241-17		FE052177.D	31 Jan 2025 15:09	need 10x dilution	YP\AJ	Dilution
13	Q1242-01		FE052178.D	31 Jan 2025 15:39	need 10x dilution	YP\AJ	Dilution
14	I.BLK		FE052179.D	31 Jan 2025 16:09		YP\AJ	Ok
15	50 PPM TRPH STD		FE052180.D	31 Jan 2025 16:40		YP\AJ	Ok,M
16	Q1241-05MS		FE052181.D	31 Jan 2025 17:10		YP\AJ	Ok
17	Q1241-05MSD		FE052182.D	31 Jan 2025 17:40		YP\AJ	Ok
18	Q1241-01		FE052183.D	31 Jan 2025 18:11		YP\AJ	Ok

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

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE013125

Review By	yogesh	Review On	1/31/2025 12:39:58 PM		
Supervise By	Ankita	Supervise On	2/3/2025 1:08:07 PM		
SubDirectory	FE013125	HP Acquire Method		HP Processing Method	FE012325

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC	PP23963
Internal Standard/PEM	
ICV/I.BLK	PP23962,PP23967
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1241-05		FE052184.D	31 Jan 2025 18:41		YP\AJ	Ok,M
20	Q1241-09		FE052185.D	31 Jan 2025 19:11		YP\AJ	Ok,M
21	Q1241-13		FE052186.D	31 Jan 2025 19:41		YP\AJ	Ok
22	Q1241-17		FE052187.D	31 Jan 2025 20:12		YP\AJ	Ok,M
23	Q1242-01		FE052188.D	31 Jan 2025 20:42		YP\AJ	Ok
24	I.BLK		FE052189.D	31 Jan 2025 21:12		YP\AJ	Ok
25	50 PPM TRPH STD		FE052190.D	31 Jan 2025 22:12		YP\AJ	Ok,M
26	I.BLK		FE052191.D	31 Jan 2025 23:13		YP\AJ	Ok
27	50 PPM TRPH STD		FE052192.D	01 Feb 2025 00:13		YP\AJ	Ok,M
28	RT MARKER		FE052193.D	01 Feb 2025 01:14		YP\AJ	Ok
29	PB166433BL		FE052194.D	01 Feb 2025 02:14		YP\AJ	Ok
30	PB166433BS		FE052195.D	01 Feb 2025 02:44		YP\AJ	Ok,M
31	Q1236-01		FE052196.D	01 Feb 2025 03:15		YP\AJ	Ok
32	Q1236-01MS		FE052197.D	01 Feb 2025 03:45		YP\AJ	Ok,M
33	Q1236-01MSD		FE052198.D	01 Feb 2025 04:15		YP\AJ	Ok,M
34	Q1236-01		FE052199.D	01 Feb 2025 04:45	not required	YP\AJ	Not Ok
35	I.BLK		FE052200.D	01 Feb 2025 05:15		YP\AJ	Ok,M
36	50 PPM TRPH STD		FE052201.D	01 Feb 2025 06:15		YP\AJ	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 2/3/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:35
In Date: 01/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:40
Out Date: 02/01/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134497

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
Q1236-01	WASTE	17	1.14	8.55	9.69	8.12	81.6	
Q1236-02	VOC	18	1.13	8.71	9.84	8.3	82.3	
Q1236-03	1	19	1.17	8.50	9.67	8.2	82.7	
Q1236-04	2	20	1.17	8.60	9.77	8.2	81.7	
Q1236-05	3	21	1.15	8.84	9.99	8.35	81.4	
Q1236-06	4	22	1.16	8.53	9.69	8.24	83.0	
Q1236-07	5	23	1.15	8.82	9.97	8.48	83.1	
Q1241-01	JPP-3.5-013025	1	1.15	8.58	9.73	8.41	84.6	
Q1241-03	JPP-3.5-013025	2	1.12	8.76	9.88	8.3	82.0	
Q1241-05	JPP-5.3-013025	3	1.15	8.43	9.58	8.68	89.3	
Q1241-07	JPP-5.3-013025	4	1.11	8.77	9.88	8.81	87.8	
Q1241-09	JPP-5.2-013025	5	1.15	8.59	9.74	8.65	87.3	
Q1241-11	JPP-5.2-013025	6	1.12	8.41	9.53	8.58	88.7	
Q1241-13	JPP-5.4-013025	7	1.16	8.66	9.82	8.69	87.0	
Q1241-15	JPP-5.4-013025	8	1.18	8.45	9.63	8.5	86.6	
Q1241-17	JPP-51.4-013025	9	1.14	8.55	9.69	9.12	93.3	
Q1241-19	JPP-51.4-013025	10	1.16	8.51	9.67	9.09	93.2	
Q1242-01	JPP-6.2-013025	11	1.15	8.80	9.95	8.32	81.5	
Q1242-03	JPP-6.2-013025	12	1.13	8.60	9.73	8.11	81.2	
Q1243-01	CL-01-01302025	13	1.16	8.40	9.56	9.12	94.8	
Q1243-02	CL-01-01302025-E2	14	1.13	8.70	9.83	9.36	94.6	
Q1244-01	EO-02-01302025	15	1.18	8.71	9.89	9.36	93.9	
Q1244-02	EO-02-01302025-E2	16	1.12	8.80	9.92	9.42	94.3	
Q1254-01	OK-02-01312025	24	1.16	8.40	9.56	8.48	87.1	
Q1254-02	OK-02-01312025-E2	25	1.15	8.83	9.98	9.6	95.7	
Q1257-01	013025	42	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1258-01	112224A	43	1.00	1.00	2.00	2.00	100.0	debris
Q1259-01	12825	44	1.14	8.70	9.84	8.7	86.9	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 2/3/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:35
In Date: 01/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:40
Out Date: 02/01/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134497

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
Q1260-01	12925-A	45	1.00	1.00	2.00	2.00	100.0	debris
Q1260-02	12925-BC	46	1.16	8.42	9.58	9.2	95.5	
Q1261-01	CHRT-20430	47	1.14	8.43	9.57	5.86	56.0	
Q1261-02	CHRT-20430-E2	48	1.12	8.77	9.89	5.93	54.8	
Q1262-01	ETGI-371	49	1.15	8.70	9.85	8.64	86.1	
Q1262-02	ETGI-371-E2	50	1.16	8.82	9.98	8.78	86.4	
Q1262-03	CONCRETE-PAD	51	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1262-04	CONCRETE-PAD-E2	52	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1262-05	3762	53	1.00	1.00	2.00	2.00	100.0	debris
Q1263-01	KMA9027-1-1	54	1.00	1.00	2.00	2.00	100.0	pilc
Q1263-02	KMA9027-1-2	55	1.00	1.00	2.00	2.00	100.0	pilc
Q1263-03	BC274653-1-1	56	1.00	1.00	2.00	2.00	100.0	pilc
Q1263-04	BC274653-1-2	57	1.00	1.00	2.00	2.00	100.0	pilc
Q1264-01	AUD-1606	26	1.18	8.62	9.8	9.63	98.0	
Q1264-02	AUD-25-0008	27	1.11	8.71	9.82	7.77	76.5	
Q1265-01	AUD-25-0006	28	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1267-01	TRE-25-0003	29	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1267-02	TRE-25-0009	30	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1267-03	TRE-25-0011	31	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1268-05	SVOC-GPC-BLANK	32	1.00	1.00	2.00	2.00	100.0	
Q1268-06	PEST-GPC-BLANK	33	1.00	1.00	2.00	2.00	100.0	
Q1268-07	PEST-GPC-BLANK-SPIKE	34	1.00	1.00	2.00	2.00	100.0	
Q1268-08	PCB-GPC-BLANK	35	1.00	1.00	2.00	2.00	100.0	
Q1268-09	PCB-GPC-BLANK-SPIKE	36	1.00	1.00	2.00	2.00	100.0	
Q1268-10	SVOC-GPC2-BLANK	37	1.00	1.00	2.00	2.00	100.0	
Q1268-11	PEST-GPC2-BLANK	38	1.00	1.00	2.00	2.00	100.0	
Q1268-12	PEST-GPC2-BLANK-SPIKE	39	1.00	1.00	2.00	2.00	100.0	
Q1268-13	PCB-GPC2-BLANK	40	1.00	1.00	2.00	2.00	100.0	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 2/3/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:35
In Date: 01/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:40
Out Date: 02/01/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134497

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
Q1268-14	PCB-GPC2-BLANK-SPIKE	41	1.00	1.00	2.00	2.00	100.0	
Q1269-01	VNJ-231	58	1.17	8.81	9.98	9.00	88.9	
Q1269-02	VNJ-231-E2	59	1.12	8.86	9.98	9.1	90.1	
Q1270-01	BC247799-1-1	60	1.00	1.00	2.00	2.00	100.0	oilc
Q1270-02	BC247799-1-2	61	1.00	1.00	2.00	2.00	100.0	oilc
Q1270-03	BC274768-1-1	62	1.00	1.00	2.00	2.00	100.0	oilc
Q1270-04	BC274768-1-2	63	1.00	1.00	2.00	2.00	100.0	oilc
Q1270-05	BC274768-2-1	64	1.00	1.00	2.00	2.00	100.0	oilc
Q1270-06	BC274768-2-2	65	1.00	1.00	2.00	2.00	100.0	oilc
Q1271-01	RBR200030	66	1.12	8.74	9.86	8.87	88.7	
Q1271-02	RBR200030-E2	67	1.17	8.53	9.7	9.02	92.0	
Q1271-03	3189-3196	68	1.00	1.00	2.00	2.00	100.0	oil sample

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

WORKLIST(Hardcopy Internal Chain)

R134497

WorkList Name : %1-013125 **WorkList ID :** 187328 **Department :** Wet-Chemistry **Date :** 01-31-2025 07:56:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1236-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	E11	01/30/2025	Chemtech -SO
Q1236-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	E11	01/30/2025	Chemtech -SO
Q1236-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	E11	01/30/2025	Chemtech -SO
Q1236-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	E11	01/30/2025	Chemtech -SO
Q1236-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	E11	01/30/2025	Chemtech -SO
Q1236-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	E11	01/30/2025	Chemtech -SO
Q1236-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	E11	01/30/2025	Chemtech -SO
Q1241-01	JPP-3.5-013025	Solid	Percent Solids	Cool 4 deg C	SCIA01	E11	01/30/2025	Chemtech -SO
Q1241-03	JPP-3.5-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1241-05	JPP-5.3-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1241-07	JPP-5.3-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1241-09	JPP-5.2-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1241-11	JPP-5.2-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1241-13	JPP-5.4-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1241-15	JPP-5.4-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1241-17	JPP-51.4-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1241-19	JPP-51.4-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1242-01	JPP-6.2-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1242-03	JPP-6.2-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1243-01	CL-01-01302025	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	01/30/2025	Chemtech -SO
Q1243-02	CL-01-01302025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	01/30/2025	Chemtech -SO

Date/Time 01/31/25 16:10

Raw Sample Received by: JD (DC)

Raw Sample Relinquished by: RJ (CEAT-Lab)

Date/Time 01/31/25 17:50

Raw Sample Received by: RJ (CEAT-Lab)

Raw Sample Relinquished by: JD (DC)

WORKLIST(Hardcopy Internal Chain)

B 134497

WorkList Name : %1-013125 **WorkList ID :** 187328 **Department :** Wet-Chemistry **Date :** 01-31-2025 07:56:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1244-01	EO-02-01302025	Solid	Percent Solids	Cool 4 deg C	PSEG05	N51	01/30/2025	Chemtech -SO
Q1244-02	EO-02-01302025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	N51	01/30/2025	Chemtech -SO
Q1254-01	OK-02-01312025	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	01/31/2025	Chemtech -SO
Q1254-02	OK-02-01312025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	01/31/2025	Chemtech -SO
Q1257-01	013025	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1258-01	112224A	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1259-01	12825	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1260-01	12925-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/31/2025	Chemtech -SO
Q1260-02	12925-BC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/31/2025	Chemtech -SO
Q1261-01	CHRT-20430	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/31/2025	Chemtech -SO
Q1261-02	CHRT-20430-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/31/2025	Chemtech -SO
Q1262-01	ETGI-371	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1262-02	ETGI-371-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1262-03	CONCRETE-PAD	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1262-04	CONCRETE-PAD-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1262-05	3762	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1263-01	KMA9027-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	N11	01/31/2025	Chemtech -SO
Q1263-02	KMA9027-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N11	01/31/2025	Chemtech -SO
Q1263-03	BC274653-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	N11	01/31/2025	Chemtech -SO
Q1263-04	BC274653-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N11	01/31/2025	Chemtech -SO
Q1264-01	AUD-1606	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/31/2025	Chemtech -SO

Date/Time 01/31/25 16:10

Raw Sample Received by: SO (WC)

Raw Sample Relinquished by: RJ (Ext-Lab)

Date/Time 01/31/25 17:50

Raw Sample Received by: RJ (Ext-Lab)

Raw Sample Relinquished by: SO (WC)

WORKLIST(Hardcopy Internal Chain)

VB134497

WorkList Name : %1-013125 **WorkList ID :** 187328 **Department :** Wet-Chemistry **Date :** 01-31-2025 07:56:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1264-02	AUD-25-0008	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/31/2025	Chemtech -SO
Q1265-01	AUD-25-0006	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1267-01	TRE-25-0003	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1267-02	TRE-25-0009	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1267-03	TRE-25-0011	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1268-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1269-01	VNJ-231	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1269-02	VNJ-231-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	01/31/2025	Chemtech -SO
Q1270-01	BC247799-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	01/31/2025	Chemtech -SO
Q1270-02	BC247799-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	01/31/2025	Chemtech -SO
Q1270-03	BC274768-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	01/31/2025	Chemtech -SO
Q1270-04	BC274768-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	01/31/2025	Chemtech -SO

Date/Time 01/31/25 16:10

Raw Sample Received by: JA WDC

Raw Sample Relinquished by: RJ CETT-Lab

Date/Time 01/31/25 17:50

Raw Sample Received by: RJ CETT-Lab

Raw Sample Relinquished by: JA WDC

WORKLIST(Hardcopy Internal Chain)

IR-134497

WorkList Name : %1-013125 **WorkList ID :** 187328 **Department :** Wet-Chemistry **Date :** 01-31-2025 07:56:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1270-05	BC274768-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	01/31/2025	Chemtech -SO
Q1270-06	BC274768-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	01/31/2025	Chemtech -SO
Q1271-01	RBR200030	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	01/31/2025	Chemtech -SO
Q1271-02	RBR200030-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	01/31/2025	Chemtech -SO
Q1271-03	3189-3196	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	01/31/2025	Chemtech -SO

Date/Time 01/31/25 16:10

Raw Sample Received by: JD WDC

Raw Sample Relinquished by: RJ CEXT-lab

Date/Time 01/31/25 17:50

Raw Sample Received by: RJ CEXT-lab

Raw Sample Relinquished by: JD WDC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166415

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 01/31/2025

Extraction Start Time : 08:50

Extraction End Date : 01/31/2025

Extraction End Time : 11:50

Concentration By: EH

Supervisor By : rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	20 PPM	PP23913
Surrogate	1.0ML	20 PPM	PP23935
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2578
Baked Na2SO4	N/A	EP2580
Sand	N/A	E2865
Methylene Chloride	N/A	E3874
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:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/31/25	RP (Ext. Lab)	A.P-Pest/PCB.
11:55	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166415

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 01/31/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166415BL	PB166415BL	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1			U2-1
PB166415BS	PB166415BS	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1			2
Q1232-01	JPP-46.2-012925	Diesel Range Organics	30.07	N/A	ritesh	Evelyn	1	I		3
Q1232-05	JPP-46.1-012925	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1	I		4
Q1232-09	JPP-42.1-012925	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1	I		5
Q1232-13	JPP-42.2-012925	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	I		6
Q1232-17	JPP-51.1-012925	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1	I		U3-1
Q1235-01	JPP-51.2-012925	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	I		2
Q1235-05	JPP-16.1-012925	Diesel Range Organics	30.04	N/A	ritesh	Evelyn	1	I		3
Q1241-01	JPP-3.5-013025	Diesel Range Organics	30.07	N/A	ritesh	Evelyn	1	I		4
Q1241-05	JPP-5.3-013025	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	I		5
Q1241-05MS	JPP-5.3-013025MS	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	I		6
Q1241-05MSD	JPP-5.3-013025MSD	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1	I		U4-1
Q1241-09	JPP-5.2-013025	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	I		2
Q1241-13	JPP-5.4-013025	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1	I		3
Q1241-17	JPP-51.4-013025	Diesel Range Organics	30.08	N/A	ritesh	Evelyn	1	I		4
Q1242-01	JPP-6.2-013025	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1	I		5

* **Extracts relinquished on the same date as received.**

1/31/25

66415
5:50

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1241 **WorkList ID :** 187331 **Department :** Extraction **Date :** 01-31-2025 08:13:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1232-01	JPP-46.2-012925	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/29/2025	8015D
Q1232-05	JPP-46.1-012925	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/29/2025	8015D
Q1232-09	JPP-42.1-012925	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/29/2025	8015D
Q1232-13	JPP-42.2-012925	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/29/2025	8015D
Q1232-17	JPP-51.1-012925	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/29/2025	8015D
Q1235-01	JPP-51.2-012925	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/29/2025	8015D
Q1235-05	JPP-16.1-012925	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/29/2025	8015D
Q1241-01	JPP-3.5-013025	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/30/2025	8015D
Q1241-05	JPP-5.3-013025	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/30/2025	8015D
Q1241-09	JPP-5.2-013025	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/30/2025	8015D
Q1241-13	JPP-5.4-013025	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/30/2025	8015D
Q1241-17	JPP-51.4-013025	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/30/2025	8015D
Q1242-01	JPP-6.2-013025	Solid	Diesel Range Organics	Cool 4 deg C	RUTW01	E11	01/30/2025	8015D

Date/Time 01/31/25 8:45
Raw Sample Received by: RJ (GCL log)
Raw Sample Relinquished by: CP SM

Date/Time 01/31/25 9:10
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (GCL log)

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Prep Standard - Chemical Standard Summary

Order ID : Q1241

Test : Diesel Range Organics

Prepbatch ID : PB166415,

Sequence ID/Qc Batch ID: FG013125,FE013125,

Standard ID :
EP2578,EP2580,PP23913,PP23935,PP23961,PP23962,PP23963,PP23964,PP23965,PP23966,PP23967,

Chemical ID :
E2865,E3551,E3822,E3828,E3846,E3848,E3874,P11958,P11959,P13104,P13109,P13213,P13218,P13219,P13492,P13493,P13494,P13495,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2578	01/06/2025	06/18/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 01/06/2025

FROM 8000.00000ml of E3846 + 8000.00000ml of E3848 = Final Quantity: 16000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2580	01/17/2025	07/01/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/17/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3609	20 PPM DRO SPIKE SOLUTION (RESTEK)	PP23913	10/25/2024	04/23/2025	Yogesh Patel	None	None	Ankita Jodhani 10/25/2024

FROM 1.00000ml of P13104 + 1.00000ml of P13109 + 48.00000ml of E3822 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
147	20 PPM DRO Surrogate Spike Solution	PP23935	11/01/2024	04/23/2025	Yogesh Patel	None	None	Ankita Jodhani 11/04/2024

FROM 1.00000ml of P13492 + 1.00000ml of P13493 + 1.00000ml of P13494 + 1.00000ml of P13495 + 196.00000ml of E3822 = 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
433	100/100 PPM DRO (Restek)	PP23961	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/13/2024

FROM 1.00000ml of P11958 + 1.00000ml of P11959 + 1.00000ml of P13213 + 7.00000ml of E3828 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3796	100/100 PPM DRO STD (CPI)	PP23962	11/13/2024	02/14/2025	Yogesh Patel	None	None	Ankita Jodhani 11/13/2024

FROM 1.00000ml of P13213 + 1.00000ml of P13218 + 1.00000ml of P13219 + 7.00000ml of E3828 = Final Quantity: 10.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
435	50 PPM ICC DRO STD (Restek)	PP23963	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/13/2024

FROM 0.50000ml of E3828 + 0.50000ml of PP23961 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
437	20 PPM ICC DRO STD (Restek)	PP23964	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/13/2024

FROM 0.80000ml of E3828 + 0.20000ml of PP23961 = 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
438	10 PPM ICC DRO STD (Restek)	PP23965	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/13/2024

FROM 0.90000ml of E3828 + 0.10000ml of PP23961 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
439	5 PPM ICC DRO STD (Restek)	PP23966	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/13/2024

FROM 0.90000ml of E3828 + 0.10000ml of PP23963 = 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
3797	50 PPM DRO ICV STD (CPI)	PP23967	11/13/2024	02/14/2025	Yogesh Patel	None	None	Ankita Jodhani 11/13/2024

FROM 0.80000ml of E3828 + 0.50000ml of PP23962 = Final Quantity: 1.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24I2662006	04/23/2025	10/24/2024 / Rajesh	10/24/2024 / Rajesh	E3822

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)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

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	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	06/18/2025	12/18/2024 / Rajesh	12/09/2024 / Rajesh	E3848

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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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	05/13/2025	11/13/2024 / yogesh	07/11/2022 / Yogesh	P11958

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	05/13/2025	11/13/2024 / yogesh	07/11/2022 / Yogesh	P11959

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0204859	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0204859	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13109

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/13/2025	11/13/2024 / yogesh	01/17/2024 / Ankita	P13213

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110400-05-01 / TRPH Standard (C8-C40), 500 mg/L, 1 ml	514983	02/14/2025	08/14/2024 / yogesh	01/31/2024 / Ankita	P13218

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110400-05-01 / TRPH Standard (C8-C40), 500 mg/L, 1 ml	514983	05/13/2025	11/13/2024 / yogesh	01/31/2024 / Ankita	P13219

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/01/2025	11/01/2024 / yogesh	07/24/2024 / yogesh	P13492

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/01/2025	11/01/2024 / yogesh	07/24/2024 / yogesh	P13493

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/01/2025	11/01/2024 / yogesh	07/24/2024 / yogesh	P13494

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/01/2025	11/01/2024 / yogesh	07/24/2024 / yogesh	P13495

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	<= 0.16 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by RB on 7/24/23 E3551

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24I2662006
Manufactured Date: 2024-08-29
Expiration Date:2025-11-28
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3822

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

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

Recd by RP on 12/13/24

E 3846

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

PO: PO2-798 PRODUCT CODE: SHIP DATE: 12/9/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
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	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
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 3848

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

PO: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

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 3874

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
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100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

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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.

P11948 & P11962 } 7.8 07/11/2

Catalog No. : 31266 **Lot No.:** A0186840

Description : Florida TRPH Standard

Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul

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

Expiration Date : July 31, 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-Octane (C8) **CAS #** 111-65-9 (Lot SHBN3807) **Purity** 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) **CAS #** 124-18-5 (Lot SHBN8619) **Purity** 99%	503.0 µg/mL	+/- 2.9877 µg/mL +/- 12.4968 µg/mL +/- 14.9795 µg/mL	Gravimetric Unstressed Stressed
3	n-Dodecane (C12) **CAS #** 112-40-3 (Lot SHBN7174) **Purity** 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed
4	n-Tetradecane (C14) **CAS #** 629-59-4 (Lot STBK2282) **Purity** 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
5	n-Hexadecane (C16) **CAS #** 544-76-3 (Lot SHBM4146) **Purity** 98%	504.7 µg/mL	+/- 2.9978 µg/mL +/- 12.5390 µg/mL +/- 15.0301 µg/mL	Gravimetric Unstressed Stressed
6	n-Octadecane (C18) **CAS #** 593-45-3 (Lot VZKOJ) **Purity** 97%	504.4 µg/mL	+/- 2.9960 µg/mL +/- 12.5316 µg/mL +/- 15.0212 µg/mL	Gravimetric Unstressed Stressed
7	n-Eicosane (C20) **CAS #** 112-95-8 (Lot MKCF7888) **Purity** 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed

8	n-Docosane (C22) **CAS #** 629-97-0 **Purity** 99%	(Lot MKCL8918)	504.5	µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Tetracosane (C24) **CAS #** 646-31-1 **Purity** 99%	(Lot MKCN2863)	503.5	µg/mL	+/- 2.9906 +/- 12.5092 +/- 14.9944	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Hexacosane (C26) **CAS #** 630-01-3 **Purity** 99%	(Lot MKCD4540)	504.0	µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Octacosane (C28) **CAS #** 630-02-4 **Purity** 99%	(Lot BCCG0084)	504.5	µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Triacontane (C30) **CAS #** 638-68-6 **Purity** 99%	(Lot MKCN9321)	505.0	µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Dotriacontane (C32) **CAS #** 544-85-4 **Purity** 99%	(Lot BCBW0661)	505.0	µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Tetratriacontane (C34) **CAS #** 14167-59-0 **Purity** 99%	(Lot OML4N)	504.5	µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Hexatriacontane (C36) **CAS #** 630-06-8 **Purity** 99%	(Lot U25B014)	504.0	µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Octatriacontane (C38) **CAS #** 7194-85-6 **Purity** 97%	(Lot 0000127235)	504.4	µg/mL	+/- 2.9960 +/- 12.5316 +/- 15.0212	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetracontane (C40) **CAS #** 4181-95-7 **Purity** 98%	(Lot PADGI)	504.7	µg/mL	+/- 2.9978 +/- 12.5390 +/- 15.0301	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

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

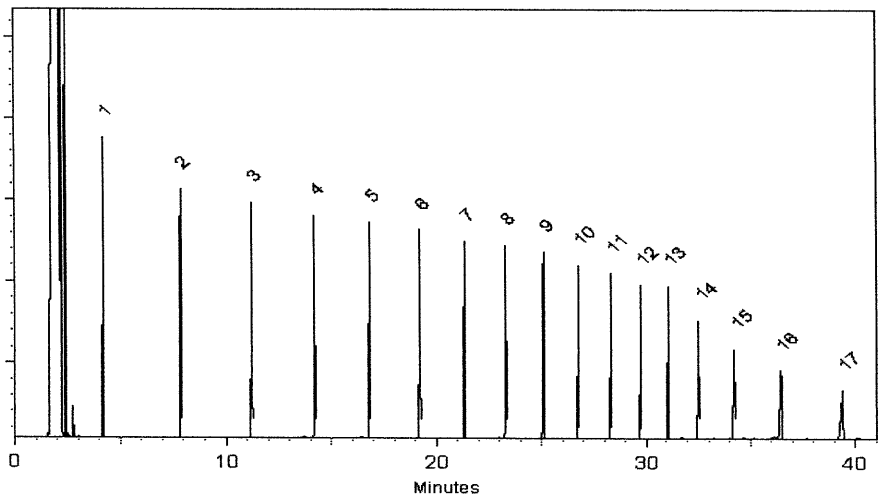
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022 **Balance:** 1128360905

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

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

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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Certificate #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.

P11948 & P11962 } 7.8 07/11/2

Catalog No. : 31266 **Lot No.:** A0186840

Description : Florida TRPH Standard

Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul

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

Expiration Date : July 31, 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-Octane (C8) **CAS #** 111-65-9 (Lot SHBN3807) **Purity** 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) **CAS #** 124-18-5 (Lot SHBN8619) **Purity** 99%	503.0 µg/mL	+/- 2.9877 µg/mL +/- 12.4968 µg/mL +/- 14.9795 µg/mL	Gravimetric Unstressed Stressed
3	n-Dodecane (C12) **CAS #** 112-40-3 (Lot SHBN7174) **Purity** 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed
4	n-Tetradecane (C14) **CAS #** 629-59-4 (Lot STBK2282) **Purity** 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
5	n-Hexadecane (C16) **CAS #** 544-76-3 (Lot SHBM4146) **Purity** 98%	504.7 µg/mL	+/- 2.9978 µg/mL +/- 12.5390 µg/mL +/- 15.0301 µg/mL	Gravimetric Unstressed Stressed
6	n-Octadecane (C18) **CAS #** 593-45-3 (Lot VZKOJ) **Purity** 97%	504.4 µg/mL	+/- 2.9960 µg/mL +/- 12.5316 µg/mL +/- 15.0212 µg/mL	Gravimetric Unstressed Stressed
7	n-Eicosane (C20) **CAS #** 112-95-8 (Lot MKCF7888) **Purity** 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed

8	n-Docosane (C22) **CAS #** 629-97-0 **Purity** 99%	(Lot MKCL8918)	504.5	µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Tetracosane (C24) **CAS #** 646-31-1 **Purity** 99%	(Lot MKCN2863)	503.5	µg/mL	+/- 2.9906 +/- 12.5092 +/- 14.9944	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Hexacosane (C26) **CAS #** 630-01-3 **Purity** 99%	(Lot MKCD4540)	504.0	µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Octacosane (C28) **CAS #** 630-02-4 **Purity** 99%	(Lot BCCG0084)	504.5	µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Triacontane (C30) **CAS #** 638-68-6 **Purity** 99%	(Lot MKCN9321)	505.0	µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Dotriacontane (C32) **CAS #** 544-85-4 **Purity** 99%	(Lot BCBW0661)	505.0	µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Tetratriacontane (C34) **CAS #** 14167-59-0 **Purity** 99%	(Lot OML4N)	504.5	µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Hexatriacontane (C36) **CAS #** 630-06-8 **Purity** 99%	(Lot U25B014)	504.0	µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Octatriacontane (C38) **CAS #** 7194-85-6 **Purity** 97%	(Lot 0000127235)	504.4	µg/mL	+/- 2.9960 +/- 12.5316 +/- 15.0212	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetracontane (C40) **CAS #** 4181-95-7 **Purity** 98%	(Lot PADGI)	504.7	µg/mL	+/- 2.9978 +/- 12.5390 +/- 15.0301	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

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

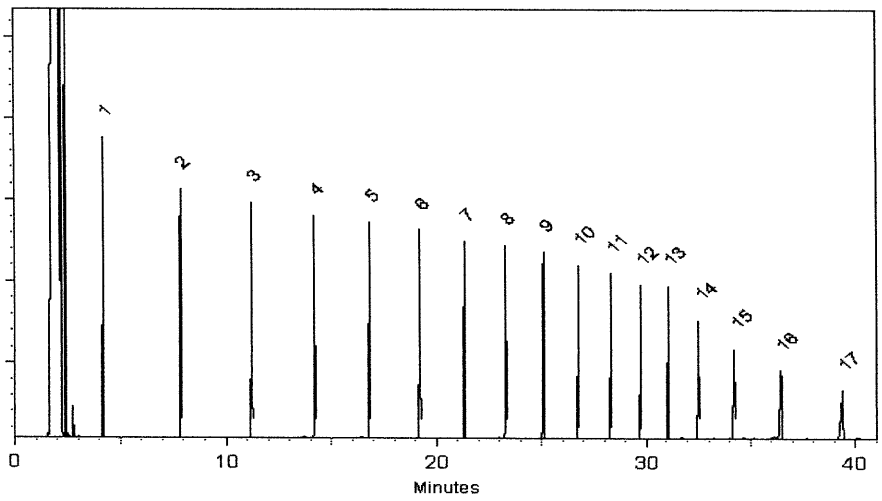
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022 **Balance:** 1128360905

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

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

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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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. : 31266 **Lot No.:** A0204859

Description : Florida TRPH Standard

Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul

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

Expiration Date : December 31, 2030 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

P13103 → P13112 Y.P. 01/12/2024

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Octane (C8)	111-65-9	SHBP9758	99%	504.4 µg/mL	+/- 13.0305
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	503.6 µg/mL	+/- 13.0098
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	503.6 µg/mL	+/- 13.0098
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	504.0 µg/mL	+/- 13.0201
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	504.0 µg/mL	+/- 13.0201
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	504.1 µg/mL	+/- 13.0230
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	504.0 µg/mL	+/- 13.0204
8	n-Docosane (C22)	629-97-0	MKCQ3882	99%	503.6 µg/mL	+/- 13.0098
9	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	504.0 µg/mL	+/- 13.0201
10	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	504.0 µg/mL	+/- 13.0201
11	n-Octacosane (C28)	630-02-4	BCCG0084	99%	504.0 µg/mL	+/- 13.0201
12	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	504.0 µg/mL	+/- 13.0204
13	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	504.0 µg/mL	+/- 13.0201
14	n-Tetratriacontane (C34)	14167-59-0	OML4N	99%	504.4 µg/mL	+/- 13.0305
15	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	504.0 µg/mL	+/- 13.0201
16	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	503.8 µg/mL	+/- 13.0152
17	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	503.6 µg/mL	+/- 13.0098

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

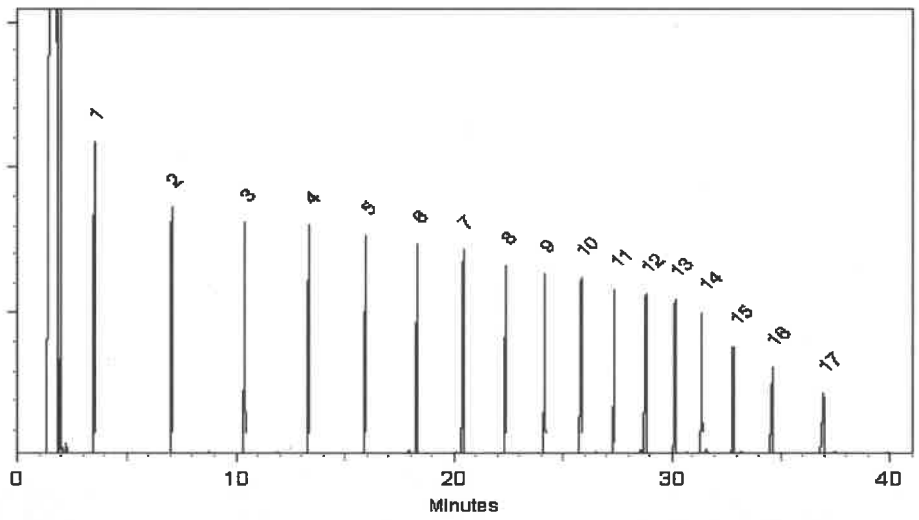
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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. : 31266 **Lot No.:** A0204859

Description : Florida TRPH Standard

Florida TRPH Standard 500µg/mL, Hexane, 1mL/ampul

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

Expiration Date : December 31, 2030 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

P13103 → P13112 Y.P. 01/12/2024

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Octane (C8)	111-65-9	SHBP9758	99%	504.4 µg/mL	+/- 13.0305
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	503.6 µg/mL	+/- 13.0098
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	503.6 µg/mL	+/- 13.0098
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	504.0 µg/mL	+/- 13.0201
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	504.0 µg/mL	+/- 13.0201
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	504.1 µg/mL	+/- 13.0230
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	504.0 µg/mL	+/- 13.0204
8	n-Docosane (C22)	629-97-0	MKCQ3882	99%	503.6 µg/mL	+/- 13.0098
9	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	504.0 µg/mL	+/- 13.0201
10	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	504.0 µg/mL	+/- 13.0201
11	n-Octacosane (C28)	630-02-4	BCCG0084	99%	504.0 µg/mL	+/- 13.0201
12	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	504.0 µg/mL	+/- 13.0204
13	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	504.0 µg/mL	+/- 13.0201
14	n-Tetratriacontane (C34)	14167-59-0	OML4N	99%	504.4 µg/mL	+/- 13.0305
15	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	504.0 µg/mL	+/- 13.0201
16	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	503.8 µg/mL	+/- 13.0152
17	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	503.6 µg/mL	+/- 13.0098

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

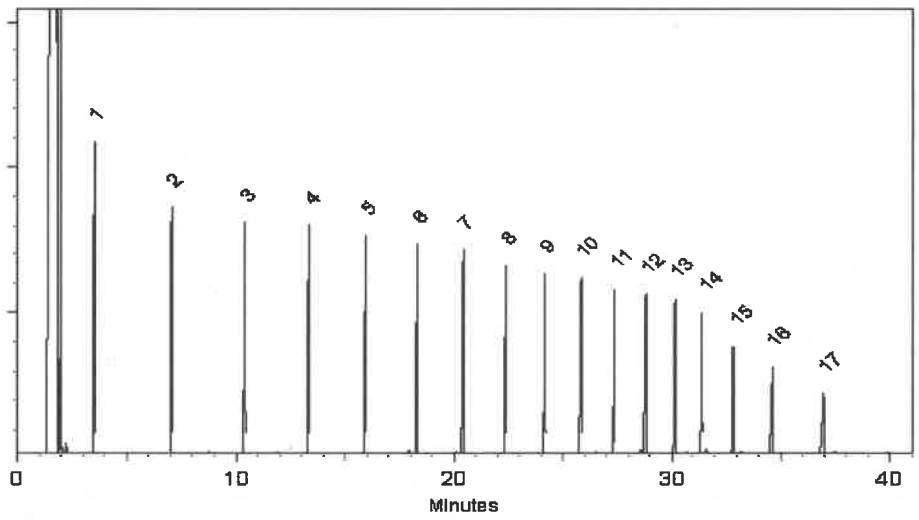
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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: 72072
Lot Number: 101122
Description: n-Tetracosane-d50

Solvent(s): Methylene chloride **Lot#** 105345

Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

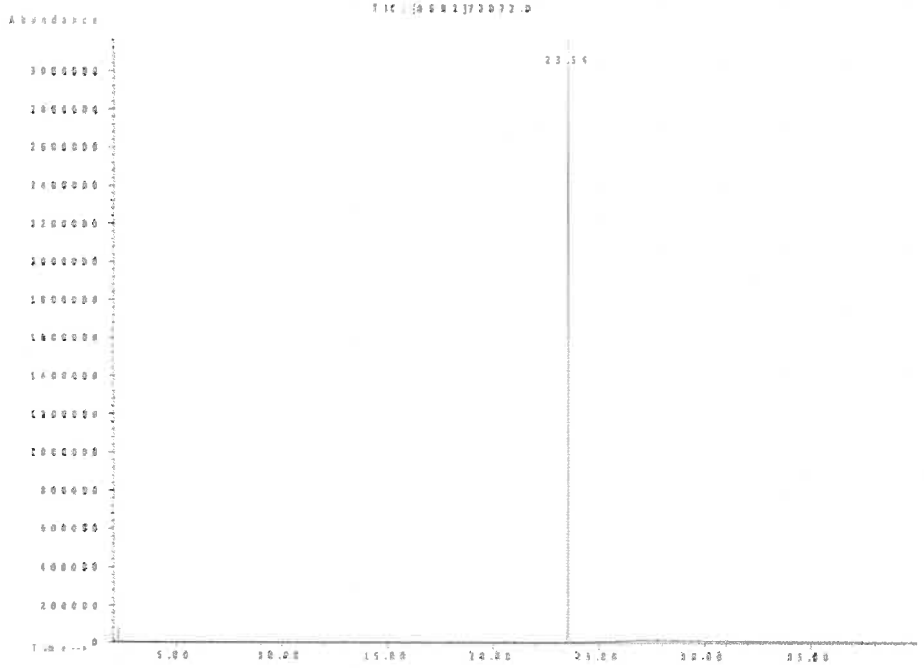
Weight(s) shown below were combined and diluted to (mL): 200.0

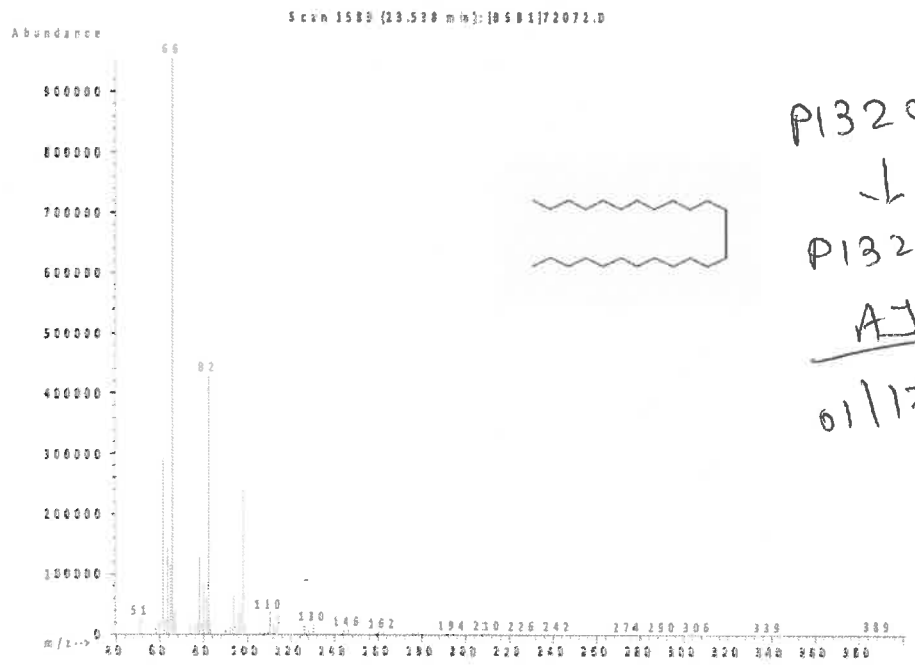
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Prashant Chauhan	101122 DATE
Reviewed By:	Pedro L. Rentas	101122 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Assay (%D)	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. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





P13205
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P13214
AJ
01/17/24

- 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).

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110400-05 -01	514983	≤ -10 Degrees C	Hexane	11/20/2028	TRPH Standard (C8-C40), 500 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
decane (C10)	124-18-5	99.7	415.7.2P	498.5 ± 6.92
docosane (C22)	629-97-0	98.8	420.9.1P	499.4 ± 6.93
dodecane (C12)	112-40-3	99.7	416.9.3P	502 ± 6.97
dotriacontane (C32)	544-85-4	97	425.9.2.2P	499.6 ± 8.53
eicosane (C20)	112-95-8	99.8	419.7.1P	501 ± 6.95
hexacosane (C26)	630-01-3	99.3	422.7.2.1P	501 ± 6.95
hexatriacontane (C36)	630-06-8	98	427.29.1.1P	499.3 ± 8.53
n-hexadecane (C16)	544-76-3	99.45	368.271.1P	498.7 ± 6.91
octacosane (C28)	630-02-4	99.1	423.24.1P	500.5 ± 6.95
n-octadecane (C18)	593-45-3	99.5	418.29.1P	499.5 ± 6.92
octane (C8)	111-65-9	99.4	385.7.2.1P	498.5 ± 6.92
octatriacontane (C38)	7194-85-6	95	428.1.2P	500.2 ± 6.94
tetracontane (C40)	4181-95-7	97	429.7.2P	499.6 ± 6.93
n-tetracosane (C24)	646-31-1	99.5	421.7.1P	499.5 ± 6.93
n-tetradecane (C14)	629-59-4	99.3	417.9.1P	500 ± 6.94
tetratriacontane (C34)	14167-59-0	96.1	426.7.2.2P	499.7 ± 8.53
triacontane (C30)	638-68-6	99.5	424.7.1.1P	500 ± 6.94

P 13215
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P 13224

AJ
01/31/24

*Not a certified value

Let the standard warm to room temperature and sonicate before opening.

Certified By: Andrea Schaible

Andrea Schaible
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110400-05 -01	514983	≤ -10 Degrees C	Hexane	11/20/2028	TRPH Standard (C8-C40), 500 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
decane (C10)	124-18-5	99.7	415.7.2P	498.5 ± 6.92
docosane (C22)	629-97-0	98.8	420.9.1P	499.4 ± 6.93
dodecane (C12)	112-40-3	99.7	416.9.3P	502 ± 6.97
dotriacontane (C32)	544-85-4	97	425.9.2.2P	499.6 ± 8.53
eicosane (C20)	112-95-8	99.8	419.7.1P	501 ± 6.95
hexacosane (C26)	630-01-3	99.3	422.7.2.1P	501 ± 6.95
hexatriacontane (C36)	630-06-8	98	427.29.1.1P	499.3 ± 8.53
n-hexadecane (C16)	544-76-3	99.45	368.271.1P	498.7 ± 6.91
octacosane (C28)	630-02-4	99.1	423.24.1P	500.5 ± 6.95
n-octadecane (C18)	593-45-3	99.5	418.29.1P	499.5 ± 6.92
octane (C8)	111-65-9	99.4	385.7.2.1P	498.5 ± 6.92
octatriacontane (C38)	7194-85-6	95	428.1.2P	500.2 ± 6.94
tetracontane (C40)	4181-95-7	97	429.7.2P	499.6 ± 6.93
n-tetracosane (C24)	646-31-1	99.5	421.7.1P	499.5 ± 6.93
n-tetradecane (C14)	629-59-4	99.3	417.9.1P	500 ± 6.94
tetratriacontane (C34)	14167-59-0	96.1	426.7.2.2P	499.7 ± 8.53
triacontane (C30)	638-68-6	99.5	424.7.1.1P	500 ± 6.94

P 13215
↓
P 13224

AJ
01/31/24

*Not a certified value

Let the standard warm to room temperature and sonicate before opening.

Certified By: Andrea Schaible

Andrea Schaible
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

ABSOLUTE STANDARDS, INC.

ISO - 17034

Certificate of Analysis

Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within +/- 0.5% of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: U_{CRM} is the expanded uncertainty which utilizes a K = 2 (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

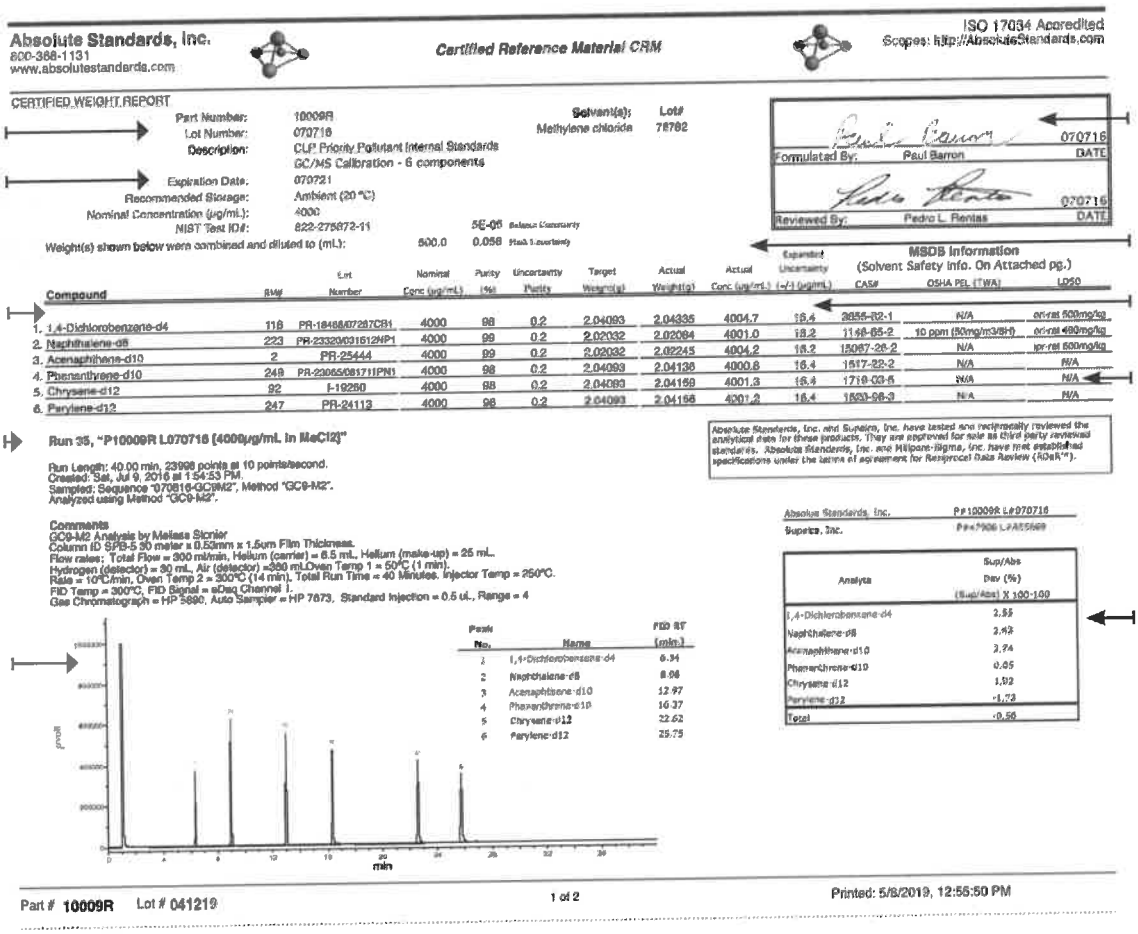
Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 10009R
Lot Number: 070716
Description: CLP Priority Pollutant Internal Standards GC/MS Calibration - 6 components

Solvent(s): Methylene chloride
Lot#: 78782

Expiration Date: 070721
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 4000
NIST Test ID#: 822-275872-11

5E-05 Balance Uncertainty
0.056 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 500.0

Formulated By: Paul Barron 070716 DATE
Reviewed By: Pedro L. Reinas 070716 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)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-18488/07267CB1	4000	98	0.2	2.04093	2.04335	4004.7	16.4	3855-82-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-233230/31612NP1	4000	99	0.2	2.02032	2.02064	4001.0	16.2	1146-65-2	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	16.2	15067-26-2	N/A	ipr-rat 500mg/kg
4. Phenanthrene-d10	248	PR-23065/061711PN1	4000	98	0.2	2.04093	2.04136	4000.8	16.4	1517-22-2	N/A	N/A
5. Chrysene-d12	92	I-19250	4000	98	0.2	2.04093	2.04159	4001.3	16.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	96	0.2	2.04093	2.04156	4001.2	16.4	1520-96-3	N/A	N/A

Absolute Standards, Inc. and Supelco, Inc. have tested and reciprocally reviewed the analytical data for these products. They are approved for sale as third party reviewed standards. Absolute Standards, Inc. and Millipore-Sigma, Inc. have met established specifications under the terms of agreement for Reciprocal Data Review (RDaR™).

Run 35, "P10009R L070716 (4000µg/mL in MeC12)"

Run Length: 40.00 min, 23998 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070816-GC9M2", Method "GC9-M2".
Analyzed using Method "GC9-M2".

Comments
GC9-M2 Analysis by Melissa Sicnier
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =300 mL.Oven Temp 1 = 50°C (1 min).
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min). Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4

Peak No.	Name	FID RT (min.)
1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.06
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Absolute Standards, Inc. P# 10009R L# 070716
Supelco, Inc. P# [illegible] L# [illegible]

Analyte	Sup/Abs Dev (%) (Sup/Abs) X 100-100
1,4-Dichlorobenzene-d4	2.55
Naphthalene-d8	2.43
Acenaphthene-d10	3.74
Phenanthrene-d10	0.05
Chrysene-d12	1.02
Perylene-d12	-1.73
Total	-0.56

counts
min

Part # 10009R Lot # 041219 1 of 2 Printed: 5/8/2019, 12:55:50 PM

Part #
Lot #
Shelf Life

Formulator
Reviewer

Actual Concentration

Target Compounds

Uncertainty Values

Health & Safety

Method of Analysis

3rd Party Comparison

Qualitative
Quantitative

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

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: 72072
Lot Number: 101122
Description: n-Tetracosane-d50

Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Methylene chloride	105345

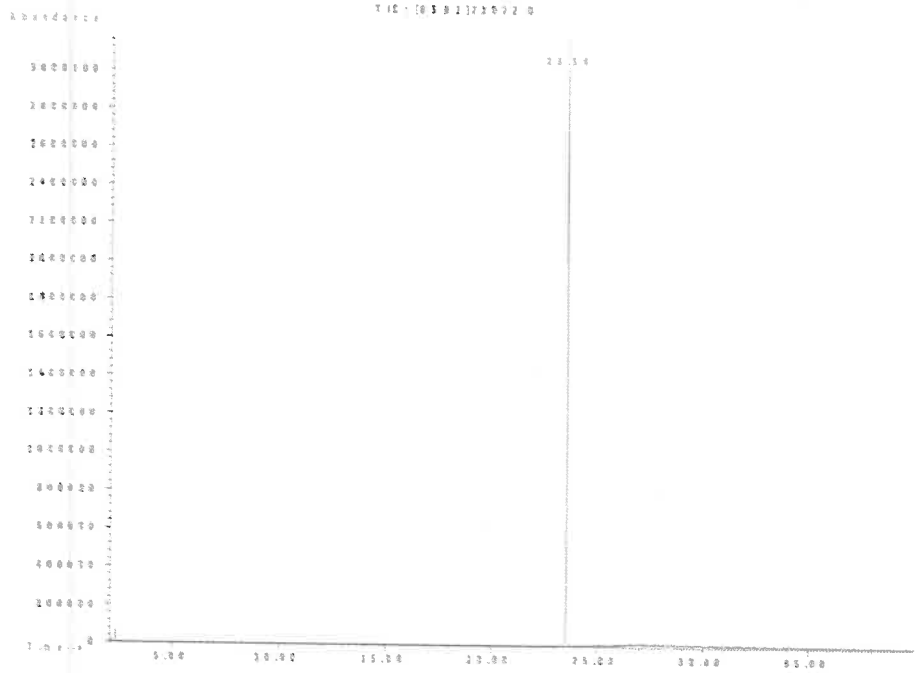
P13477 → P13496 } X.P. 07/24/24

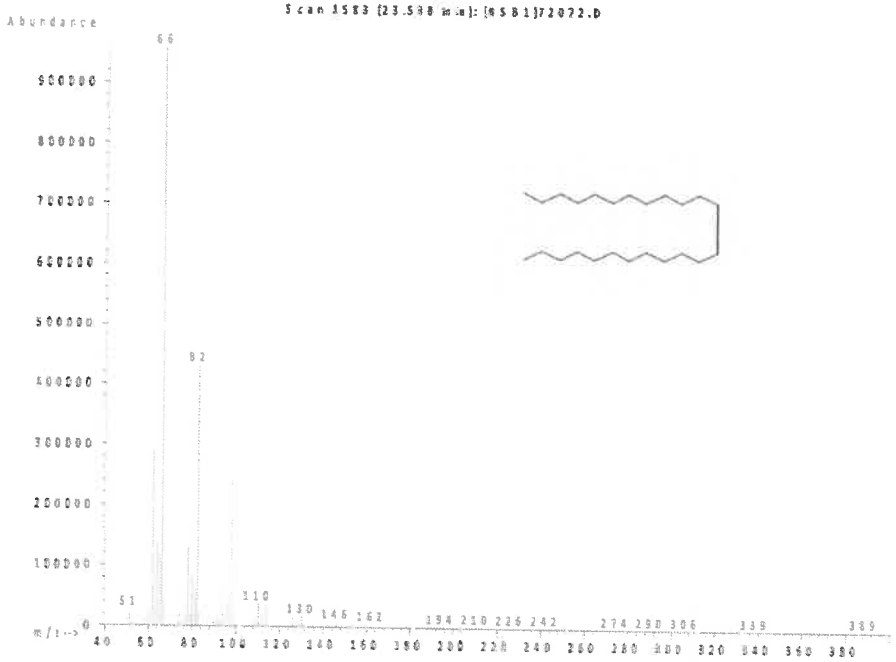
Formulated By:	Prashant Chauhan	101122 DATE
Reviewed By:	Pedro L. Rentas	101122 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Assay (%D)	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. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





- 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.

ISO - 17034

Certificate of Analysis

Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within +/- 0.5% of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: U_{CRM} is the expanded uncertainty which utilizes a K = 2 (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

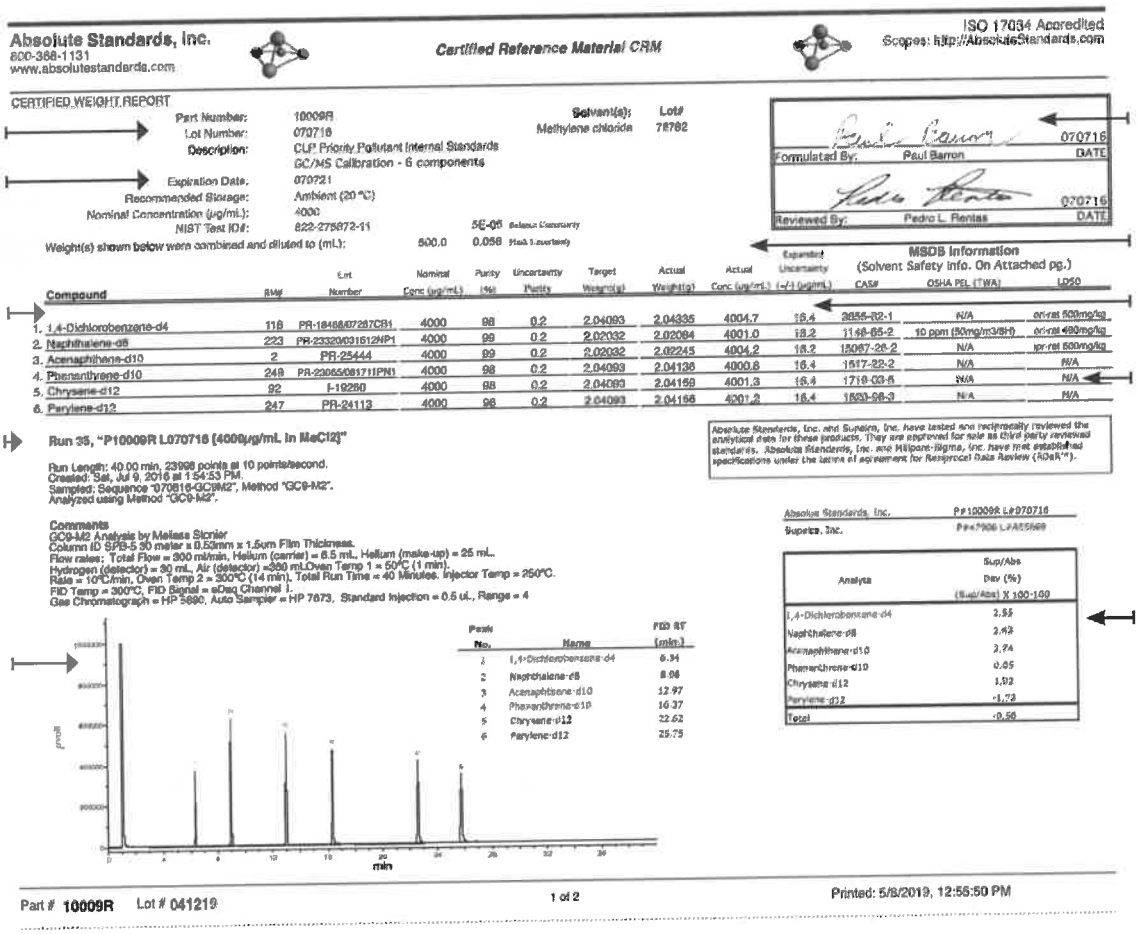
Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 10009R
Lot Number: 070716
Description: CLP Priority Pollutant Internal Standards GC/MS Calibration - 6 components

Solvent(s): Methylene chloride
Lot#: 78782

Expiration Date: 070721
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 4000
NIST Test ID#: 822-275872-11

5E-05 Balance Uncertainty
0.056 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 500.0

Formulated By: Paul Barron 070716 DATE
Reviewed By: Pedro L. Reinas 070716 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)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-18488/07267CB1	4000	98	0.2	2.04093	2.04335	4004.7	16.4	3855-82-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-233230/31612NP1	4000	99	0.2	2.02032	2.02064	4001.0	16.2	1146-65-2	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	16.2	15067-26-2	N/A	ipr-rat 500mg/kg
4. Phenanthrene-d10	248	PR-23065/061711PN1	4000	98	0.2	2.04093	2.04136	4000.8	16.4	1517-22-2	N/A	N/A
5. Chrysene-d12	92	I-19250	4000	98	0.2	2.04093	2.04159	4001.3	16.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	96	0.2	2.04093	2.04156	4001.2	16.4	1520-96-3	N/A	N/A

Absolute Standards, Inc. and Supelco, Inc. have tested and reciprocally reviewed the analytical data for these products. They are approved for sale as third party reviewed standards. Absolute Standards, Inc. and Millipore-Sigma, Inc. have met established specifications under the terms of agreement for Reciprocal Data Review (RDaR™).

Run 35, "P10009R L070716 (4000µg/mL in MeC12)"

Run Length: 40.00 min, 23998 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070816-GC9M2", Method "GC9-M2".
Analyzed using Method "GC9-M2".

Comments
GC9-M2 Analysis by Melissa Sicnier
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =300 mL.Oven Temp 1 = 50°C (1 min).
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min). Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4

Peak No.	Name	FID RT (min.)
1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.06
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Absolute Standards, Inc. P# 10009R L# 070716
Supelco, Inc. P# [illegible] L# [illegible]

Analyte	Sup/Abs Dev (%) (Sup/Abs) X 100-100
1,4-Dichlorobenzene-d4	2.55
Naphthalene-d8	2.43
Acenaphthene-d10	3.74
Phenanthrene-d10	0.05
Chrysene-d12	1.02
Perylene-d12	-1.73
Total	-0.56

counts
min

Part # 10009R Lot # 041219 1 of 2 Printed: 5/8/2019, 12:55:50 PM

Part #
Lot #
Shelf Life

Formulator
Reviewer

Actual Concentration

Target Compounds

Uncertainty Values

Health & Safety

Method of Analysis

3rd Party Comparison

Qualitative
Quantitative

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

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: 72072
Lot Number: 101122
Description: n-Tetracosane-d50

Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Methylene chloride	105345

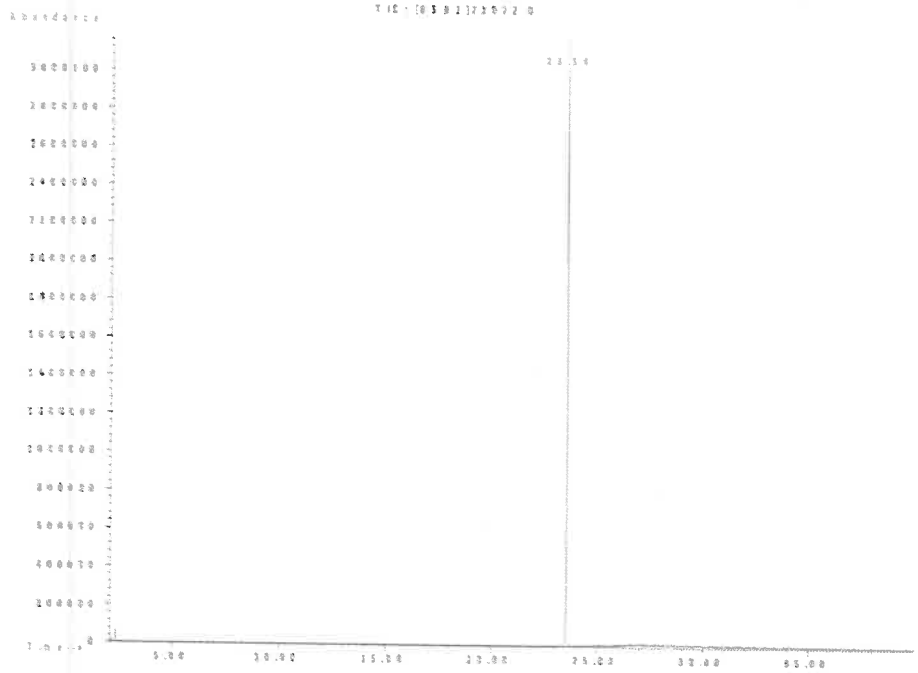
P13477 → P13496 } X.P. 07/24/24

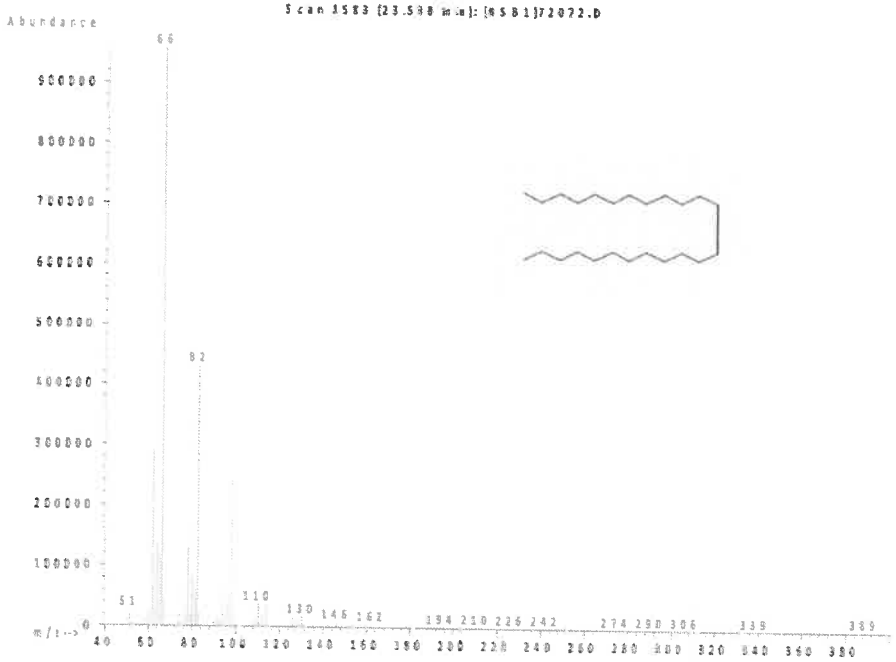
Formulated By:	Prashant Chauhan	101122 DATE
Reviewed By:	Pedro L. Rentas	101122 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Assay (%D)	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. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





- 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.

ISO - 17034

Certificate of Analysis

Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within +/- 0.5% of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: U_{CRM} is the expanded uncertainty which utilizes a K = 2 (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

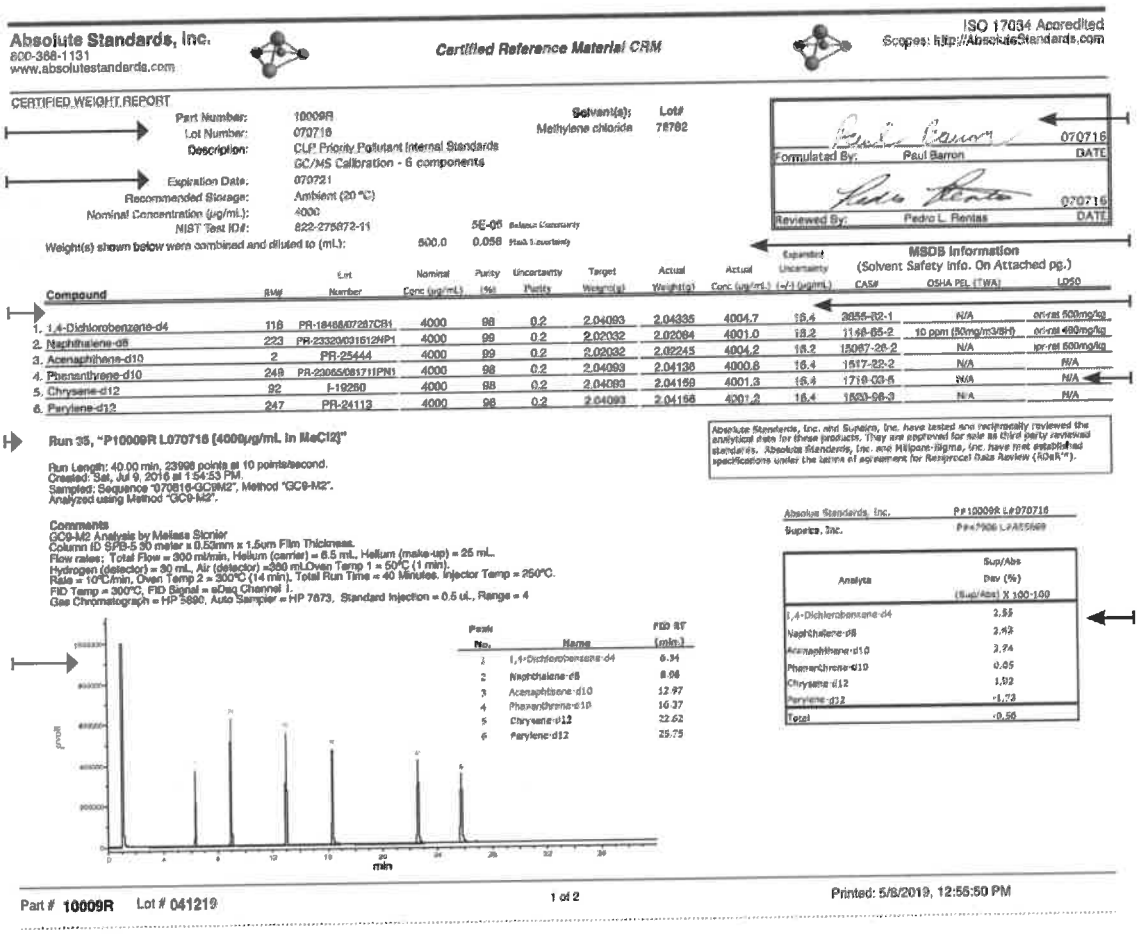
Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 10009R
Lot Number: 070716
Description: CLP Priority Pollutant Internal Standards GC/MS Calibration - 6 components

Solvent(s): Methylene chloride
Lot#: 78782

Expiration Date: 070721
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 4000
NIST Test ID#: 822-275872-11

5E-05 Balance Uncertainty
0.056 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 500.0

Formulated By: Paul Barron 070716 DATE
Reviewed By: Pedro L. Reinas 070716 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)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-18488/07267CB1	4000	98	0.2	2.04093	2.04335	4004.7	16.4	3855-82-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-233230/31612NP1	4000	99	0.2	2.02032	2.02064	4001.0	16.2	1146-65-2	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	16.2	15067-26-2	N/A	ipr-rat 500mg/kg
4. Phenanthrene-d10	248	PR-23065/061711PN1	4000	98	0.2	2.04093	2.04136	4000.8	16.4	1517-22-2	N/A	N/A
5. Chrysene-d12	92	I-19250	4000	98	0.2	2.04093	2.04159	4001.3	16.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	96	0.2	2.04093	2.04156	4001.2	16.4	1520-96-3	N/A	N/A

Absolute Standards, Inc. and Supelco, Inc. have tested and reciprocally reviewed the analytical data for these products. They are approved for sale as third party reviewed standards. Absolute Standards, Inc. and Millipore-Sigma, Inc. have met established specifications under the terms of agreement for Reciprocal Data Review (RDaR™).

Run 35, "P10009R L070716 (4000µg/mL in MeC12)"

Run Length: 40.00 min, 23998 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070816-GC9M2", Method "GC9-M2".
Analyzed using Method "GC9-M2".

Comments
GC9-M2 Analysis by Melissa Sicnier
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =300 mL.Oven Temp 1 = 50°C (1 min).
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min). Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4

Peak No.	Name	FID RT (min.)
1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.06
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Absolute Standards, Inc. P# 10009R L# 070716
Supelco, Inc. P# [illegible] L# [illegible]

Analyte	Sup/Abs Dev (%) (Sup/Abs) X 100-100
1,4-Dichlorobenzene-d4	2.55
Naphthalene-d8	2.43
Acenaphthene-d10	3.74
Phenanthrene-d10	0.05
Chrysene-d12	1.02
Perylene-d12	-1.73
Total	-0.56

counts
min

Part # 10009R Lot # 041219 1 of 2 Printed: 5/8/2019, 12:55:50 PM

Part #
Lot #
Shelf Life

Formulator
Reviewer

Actual Concentration

Target Compounds

Uncertainty Values

Health & Safety

Method of Analysis

3rd Party Comparison

Qualitative
Quantitative

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

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: 72072
Lot Number: 101122
Description: n-Tetracosane-d50

Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Methylene chloride	105345

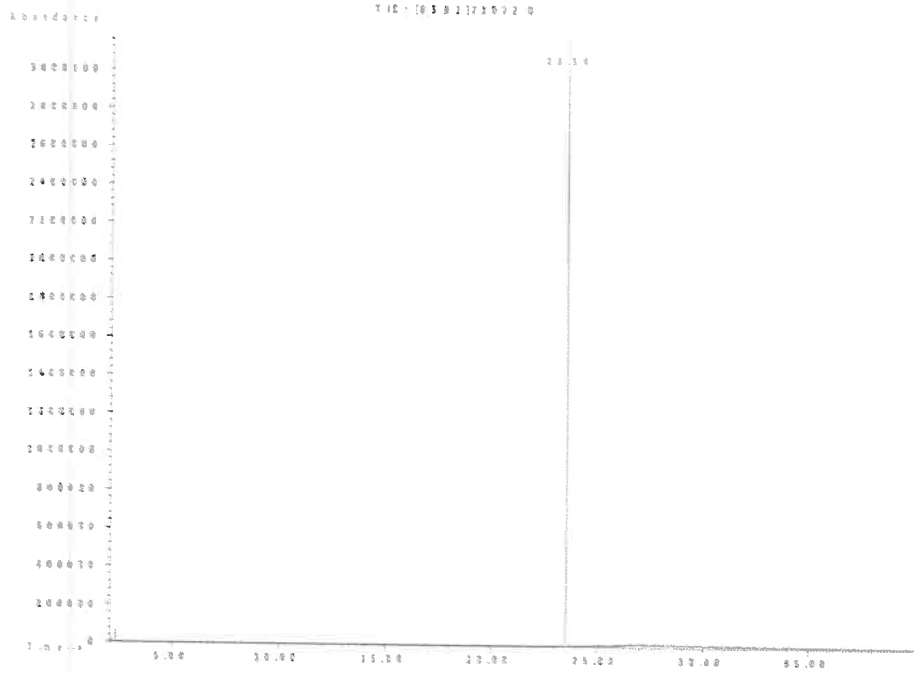
P13477 → P13496 } X.P. 07/24/24

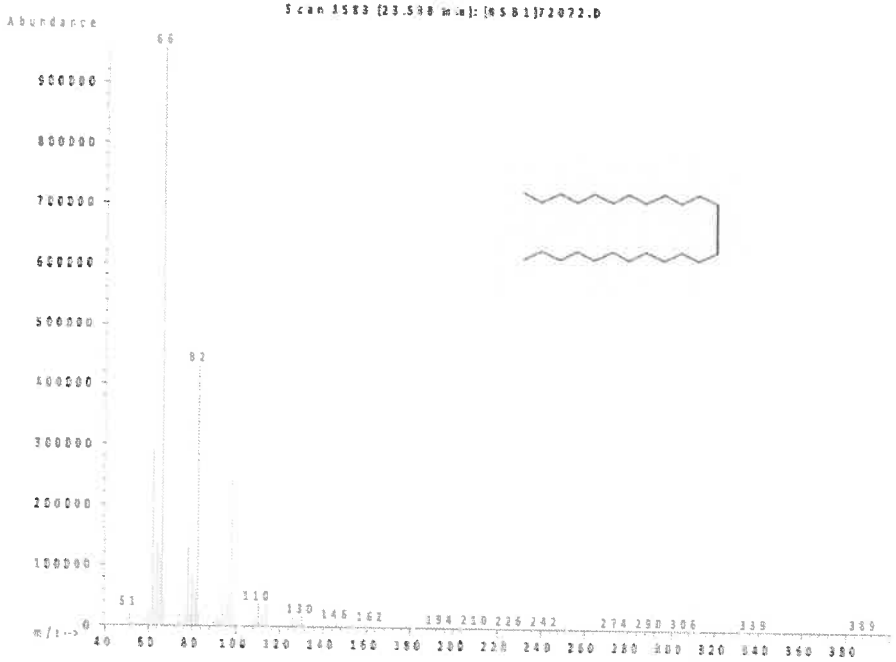
Formulated By:	Prashant Chauhan	101122 DATE
Reviewed By:	Pedro L. Rentas	101122 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Assay (%D)	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. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





- 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.

ISO - 17034

Certificate of Analysis

Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within +/- 0.5% of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within +/-5% unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: U_{CRM} is the expanded uncertainty which utilizes a K = 2 (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

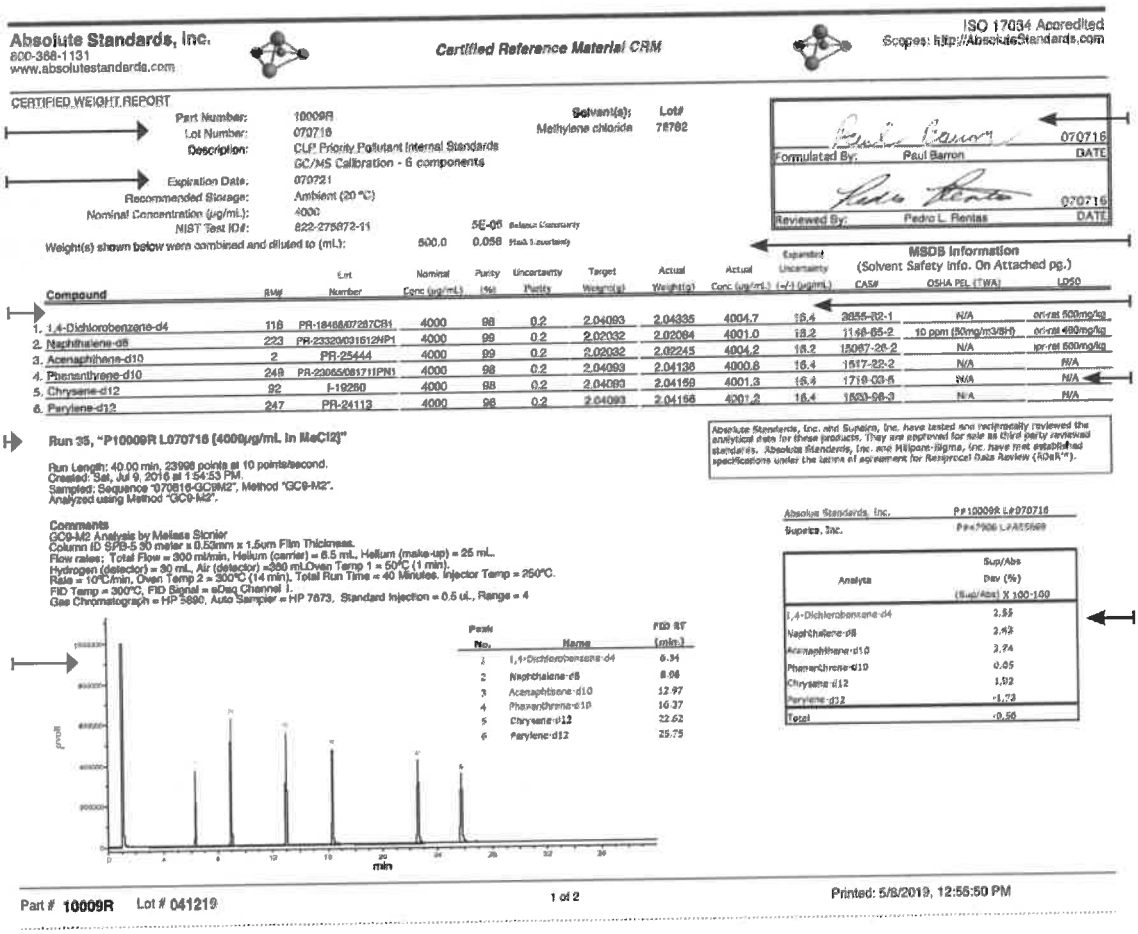
Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019

ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.



Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scopes: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part Number: 10009R
Lot Number: 070716
Description: CLP Priority Pollutant Internal Standards GC/MS Calibration - 6 components

Solvent(s): Methylene chloride
Lot#: 78782

Expiration Date: 070721
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 4000
NIST Test ID#: 822-275872-11

5E-05 Balance Uncertainty
0.056 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 500.0

Formulated By: Paul Barron 070716 DATE
Reviewed By: Pedro L. Reinas 070716 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)	MSDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-18488/07267CB1	4000	98	0.2	2.04093	2.04335	4004.7	16.4	3855-82-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-233230/31612NP1	4000	99	0.2	2.02032	2.02064	4001.0	16.2	1146-65-2	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	16.2	15067-26-2	N/A	ipr-rat 500mg/kg
4. Phenanthrene-d10	248	PR-23065/061711PN1	4000	98	0.2	2.04093	2.04136	4000.8	16.4	1517-22-2	N/A	N/A
5. Chrysene-d12	92	I-19250	4000	98	0.2	2.04093	2.04159	4001.3	16.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	96	0.2	2.04093	2.04156	4001.2	16.4	1520-96-3	N/A	N/A

Absolute Standards, Inc. and Supelco, Inc. have tested and reciprocally reviewed the analytical data for these products. They are approved for sale as third party reviewed standards. Absolute Standards, Inc. and Millipore-Sigma, Inc. have met established specifications under the terms of agreement for Reciprocal Data Review (RDaR™).

Run 35, "P10009R L070716 (4000µg/mL in MeC12)"

Run Length: 40.00 min, 23998 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070816-GC9M2", Method "GC9-M2".
Analyzed using Method "GC9-M2".

Comments
GC9-M2 Analysis by Melissa Sicnier
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) =300 mL.Oven Temp 1 = 50°C (1 min).
Rate = 10°C/min, Oven Temp 2 = 300°C (14 min). Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 4

Peak No.	Name	FID RT (min.)
1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.06
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Absolute Standards, Inc. P# 10009R L# 070716
Supelco, Inc. P# [illegible] L# [illegible]

Analyte	Sup/Abs Dev (%) (Sup/Abs) X 100-100
1,4-Dichlorobenzene-d4	2.55
Naphthalene-d8	2.43
Acenaphthene-d10	3.74
Phenanthrene-d10	0.05
Chrysene-d12	1.02
Perylene-d12	-1.73
Total	-0.56

counts
min

Part # 10009R Lot # 041219 1 of 2 Printed: 5/8/2019, 12:55:50 PM

Part #
Lot #
Shelf Life

Formulator
Reviewer

Actual Concentration

Target Compounds

Uncertainty Values

Health & Safety

Method of Analysis

3rd Party Comparison

Qualitative
Quantitative

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 72072
Lot Number: 101122
Description: n-Tetracosane-d50

Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Methylene chloride	105345

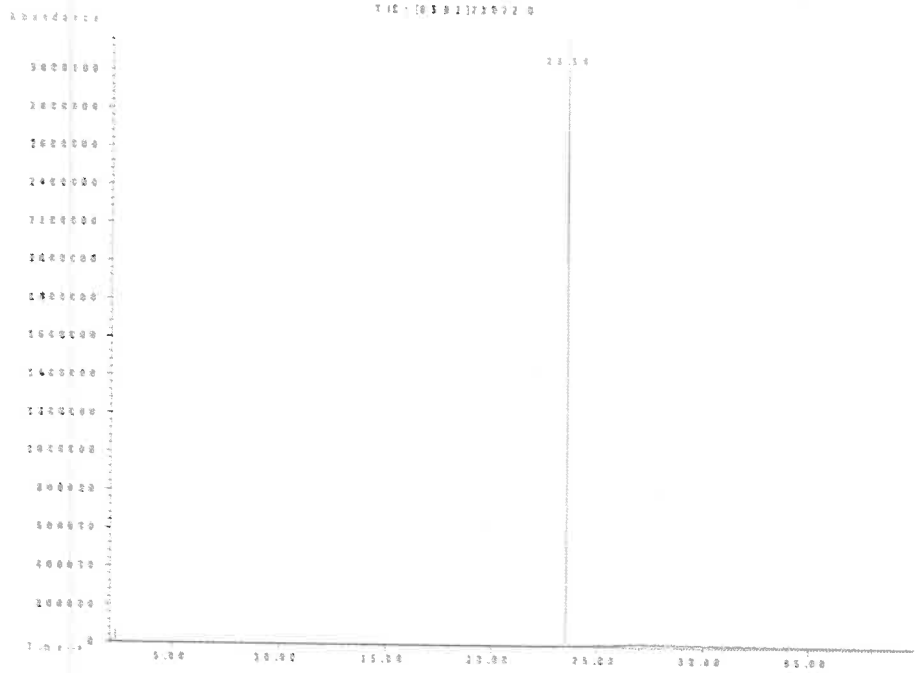
P13477 → P13496 } X.P. 07/24/24

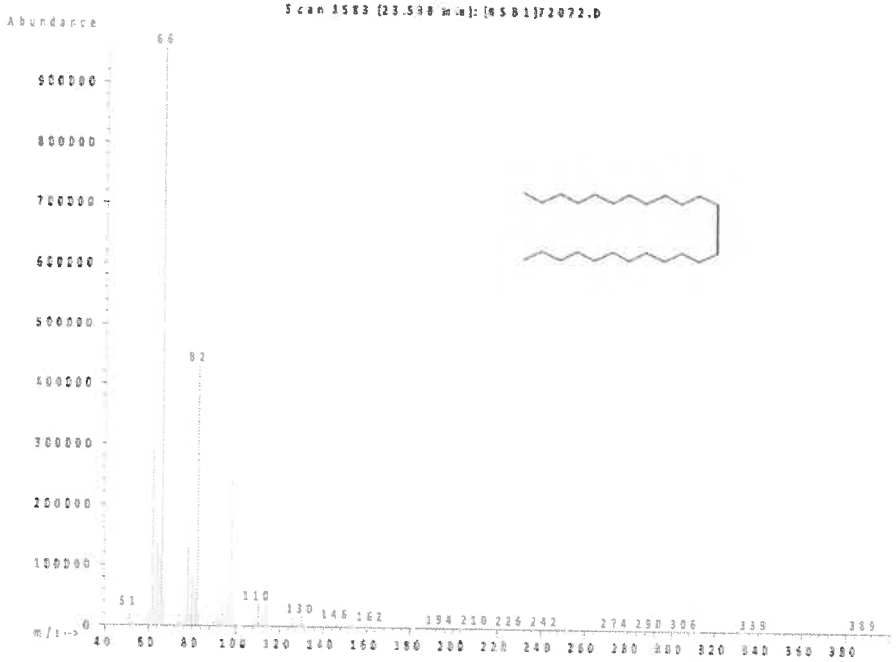
Formulated By:	Prashant Chauhan	101122 DATE
Reviewed By:	Pedro L. Rentas	101122 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.0 0.058 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Assay (%D)	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. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





- 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).

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052173.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 13:08
Operator : YP\AJ
Sample : Q1241-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-3.5-013025

Integration File: autoint1.e
Quant Time: Feb 03 00:09:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.281	2238591	22.476 ug/ml
Target Compounds			

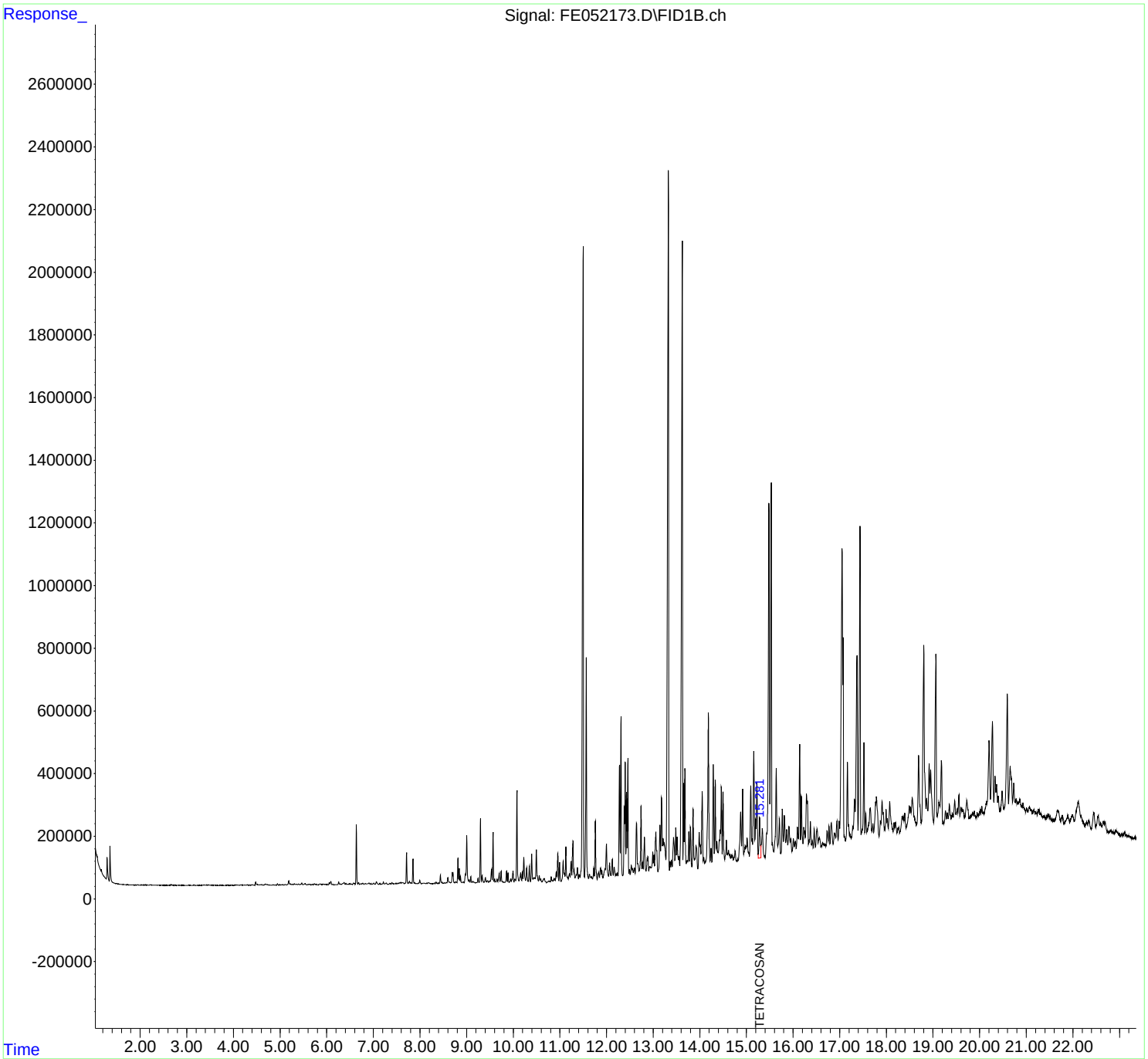
(f)=RT Delta > 1/2 Window (m)=manual int.

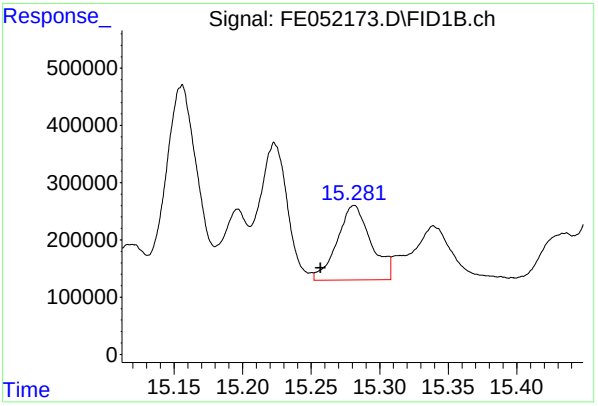
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052173.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 13:08
Operator : YP\AJ
Sample : Q1241-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-3.5-013025

Integration File: autoint1.e
Quant Time: Feb 03 00:09:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.281 min
Delta R.T.: 0.024 mi
Response: 2238591
Conc: 22.48 ug/m

Instrument :
FID_E
ClientSampleId :
JPP-3.5-013025

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052173.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 13:08
Sample : Q1241-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.897	4.852	4.916	BH	-282	-22264	-0.06%	-0.003%
2	4.945	4.916	4.978	PH	3150	4884	0.01%	0.001%
3	4.995	4.978	5.012	PH	789	-5454	-0.01%	-0.001%
4	5.025	5.012	5.043	PH	299	-6513	-0.02%	-0.001%
5	5.060	5.043	5.085	PH	1009	-7399	-0.02%	-0.001%
6	5.110	5.085	5.135	PH	1305	1416	0.00%	0.000%
7	5.186	5.135	5.209	PH	12646	152142	0.39%	0.022%
8	5.221	5.209	5.240	HH	3199	33050	0.08%	0.005%
9	5.256	5.240	5.272	HH	1986	19374	0.05%	0.003%
10	5.278	5.272	5.291	HH	545	4153	0.01%	0.001%
11	5.307	5.291	5.325	HH	3622	38162	0.10%	0.005%
12	5.355	5.325	5.377	HH	1924	31837	0.08%	0.005%
13	5.395	5.377	5.422	PH	2307	30217	0.08%	0.004%
14	5.439	5.422	5.449	HH	1912	18462	0.05%	0.003%
15	5.467	5.449	5.487	HH	5948	65336	0.17%	0.009%
16	5.540	5.487	5.575	HH	3908	76654	0.19%	0.011%
17	5.603	5.575	5.618	PH	1457	9466	0.02%	0.001%
18	5.635	5.618	5.666	HH	1968	25454	0.06%	0.004%
19	5.677	5.666	5.686	PH	539	2509	0.01%	0.000%
20	5.699	5.686	5.711	HH	1589	10628	0.03%	0.002%
21	5.726	5.711	5.735	PH	2184	18152	0.05%	0.003%
22	5.745	5.735	5.767	HH	2168	28723	0.07%	0.004%
23	5.780	5.767	5.796	HH	1405	8241	0.02%	0.001%
24	5.817	5.796	5.827	PH	302	-2137	-0.01%	-0.000%
25	5.852	5.827	5.857	PH	2604	23539	0.06%	0.003%
26	5.865	5.857	5.883	HH	2876	29297	0.07%	0.004%
27	5.892	5.883	5.900	HH	795	6159	0.02%	0.001%
28	5.919	5.900	5.939	HH	1633	26902	0.07%	0.004%
29	5.948	5.939	5.962	HH	1893	18208	0.05%	0.003%
30	5.976	5.962	5.995	HH	1754	20855	0.05%	0.003%
31	6.008	5.995	6.034	HH	1509	8625	0.02%	0.001%
32	6.055	6.034	6.070	PH	6717	69234	0.18%	0.010%
33	6.090	6.070	6.117	HH	10122	156944	0.40%	0.023%
34	6.132	6.117	6.150	PH	1584	12117	0.03%	0.002%
35	6.153	6.150	6.163	PH	98	3	0.00%	0.000%
36	6.173	6.163	6.187	PH	251	1560	0.00%	0.000%

rteres

37	6.199	6.187	6.213	PH	369	3288	0.01%	0.000%
38	6.222	6.213	6.232	HH	382	2530	0.01%	0.000%
39	6.258	6.232	6.282	HH	9122	105229	0.27%	0.015%
40	6.293	6.282	6.305	HH	2308	26602	0.07%	0.004%
41	6.314	6.305	6.327	HH	1702	19066	0.05%	0.003%
42	6.344	6.327	6.349	HH	4494	45752	0.12%	0.007%
43	6.374	6.349	6.397	HH	7398	138213	0.35%	0.020%
44	6.413	6.397	6.432	HH	5100	59381	0.15%	0.009%
45	6.476	6.432	6.489	HH	2309	62545	0.16%	0.009%
46	6.502	6.489	6.517	HH	4154	44243	0.11%	0.006%
47	6.532	6.517	6.554	HH	2863	38034	0.10%	0.005%
48	6.578	6.554	6.615	HH	5840	132222	0.34%	0.019%
49	6.637	6.615	6.665	HH	191066	1814801	4.61%	0.261%
50	6.686	6.665	6.702	HH	7599	99335	0.25%	0.014%
51	6.729	6.702	6.734	HH	2501	42402	0.11%	0.006%
52	6.744	6.734	6.757	HH	3272	36237	0.09%	0.005%
53	6.772	6.757	6.798	HH	5026	87407	0.22%	0.013%
54	6.831	6.798	6.846	HH	3781	81406	0.21%	0.012%
55	6.858	6.846	6.862	HH	2742	24526	0.06%	0.004%
56	6.873	6.862	6.881	HH	3511	36585	0.09%	0.005%
57	6.889	6.881	6.895	HH	3534	29939	0.08%	0.004%
58	6.909	6.895	6.930	HH	5888	85736	0.22%	0.012%
59	6.951	6.930	6.971	HH	3760	63181	0.16%	0.009%
60	7.003	6.971	7.021	HH	4713	88282	0.22%	0.013%
61	7.026	7.021	7.037	HH	2673	24027	0.06%	0.003%
62	7.067	7.037	7.118	HH	9742	202188	0.51%	0.029%
63	7.137	7.118	7.159	HH	4547	65101	0.17%	0.009%
64	7.182	7.159	7.198	HH	2939	56772	0.14%	0.008%
65	7.218	7.198	7.236	HH	9043	112994	0.29%	0.016%
66	7.278	7.236	7.318	HH	5705	156222	0.40%	0.022%
67	7.355	7.318	7.381	HH	4862	109927	0.28%	0.016%
68	7.401	7.381	7.442	HH	7651	151871	0.39%	0.022%
69	7.456	7.442	7.476	HH	3562	65023	0.17%	0.009%
70	7.488	7.476	7.507	HH	5622	75413	0.19%	0.011%
71	7.524	7.507	7.541	HH	5221	75534	0.19%	0.011%
72	7.556	7.541	7.570	HH	6244	90497	0.23%	0.013%
73	7.588	7.570	7.602	HH	7988	122945	0.31%	0.018%
74	7.623	7.602	7.661	HH	6809	207121	0.53%	0.030%
75	7.672	7.661	7.682	HH	4820	58956	0.15%	0.008%
76	7.714	7.682	7.743	HH	102775	1068117	2.72%	0.154%
77	7.775	7.743	7.794	HH	11227	214146	0.54%	0.031%
78	7.807	7.794	7.829	HH	6895	115744	0.29%	0.017%
79	7.852	7.829	7.875	HH	83274	862699	2.19%	0.124%
80	7.884	7.875	7.918	HH	6129	124994	0.32%	0.018%
81	7.932	7.918	7.954	HH	4133	79088	0.20%	0.011%
82	7.971	7.954	7.982	HH	5468	75907	0.19%	0.011%
83	7.998	7.982	8.040	HH	14683	246427	0.63%	0.035%
84	8.067	8.040	8.083	HH	4985	114412	0.29%	0.016%
85	8.100	8.083	8.112	HH	5083	83196	0.21%	0.012%
86	8.116	8.112	8.132	HH	4296	47873	0.12%	0.007%
87	8.149	8.132	8.162	HH	5534	81726	0.21%	0.012%
88	8.190	8.162	8.220	HH	6783	190404	0.48%	0.027%
89	8.232	8.220	8.260	HH	4337	89180	0.23%	0.013%

90	8.269	8.260	8.275	HH	3221	26879	0.07%	0.004%
91	8.311	8.275	8.329	HH	5780	139895	0.36%	0.020%
92	8.347	8.329	8.381	HH	9155	182892	0.46%	0.026%
93	8.394	8.381	8.415	HH	4694	90602	0.23%	0.013%
94	8.440	8.415	8.467	HH	30790	426658	1.08%	0.061%
95	8.477	8.467	8.495	HH	6985	97045	0.25%	0.014%
96	8.522	8.495	8.536	HH	6108	128202	0.33%	0.018%
97	8.543	8.536	8.550	HH	5229	43211	0.11%	0.006%
98	8.568	8.550	8.581	HH	7173	117124	0.30%	0.017%
99	8.599	8.581	8.661	HH	23440	515325	1.31%	0.074%
100	8.695	8.661	8.705	HH	40013	501127	1.27%	0.072%
101	8.711	8.705	8.752	HH	34253	414849	1.05%	0.060%
102	8.768	8.752	8.794	HH	9326	197852	0.50%	0.028%
103	8.816	8.794	8.831	HH	86166	923702	2.35%	0.133%
104	8.844	8.831	8.859	HH	52585	540281	1.37%	0.078%
105	8.870	8.859	8.904	HH	27120	394483	1.00%	0.057%
106	8.930	8.904	8.947	HH	9720	198493	0.50%	0.029%
107	8.978	8.947	8.986	HH	34916	493779	1.26%	0.071%
108	9.005	8.986	9.041	HH	156921	2002760	5.09%	0.288%
109	9.055	9.041	9.076	HH	16297	266111	0.68%	0.038%
110	9.092	9.076	9.117	HH	26384	359990	0.92%	0.052%
111	9.135	9.117	9.149	HH	11335	172537	0.44%	0.025%
112	9.158	9.149	9.190	HH	8700	186155	0.47%	0.027%
113	9.201	9.190	9.208	HH	6515	69176	0.18%	0.010%
114	9.217	9.208	9.221	HH	6428	46694	0.12%	0.007%
115	9.246	9.221	9.272	HH	20606	347979	0.88%	0.050%
116	9.299	9.272	9.320	HH	211065	2150154	5.47%	0.309%
117	9.335	9.320	9.378	HH	29844	538972	1.37%	0.077%
118	9.405	9.378	9.425	HH	23279	408123	1.04%	0.059%
119	9.451	9.425	9.470	HH	12998	295248	0.75%	0.042%
120	9.484	9.470	9.490	HH	10266	112819	0.29%	0.016%
121	9.503	9.490	9.512	HH	12726	156439	0.40%	0.022%
122	9.536	9.512	9.551	HH	49473	700143	1.78%	0.101%
123	9.569	9.551	9.590	HH	167603	1711058	4.35%	0.246%
124	9.603	9.590	9.624	HH	18533	269685	0.69%	0.039%
125	9.655	9.624	9.670	HH	18476	343540	0.87%	0.049%
126	9.701	9.670	9.718	HH	36150	594482	1.51%	0.085%
127	9.743	9.718	9.762	HH	43736	583935	1.48%	0.084%
128	9.769	9.762	9.787	HH	10529	139956	0.36%	0.020%
129	9.800	9.787	9.818	HH	8934	150405	0.38%	0.022%
130	9.858	9.818	9.874	HH	44010	640228	1.63%	0.092%
131	9.890	9.874	9.910	HH	38305	444841	1.13%	0.064%
132	9.945	9.910	9.959	HH	18199	344632	0.88%	0.050%
133	9.994	9.959	10.016	HH	43744	761243	1.94%	0.109%
134	10.037	10.016	10.054	HH	18598	335669	0.85%	0.048%
135	10.081	10.054	10.126	HH	300307	3423890	8.70%	0.492%
136	10.160	10.126	10.182	HH	38325	788420	2.00%	0.113%
137	10.199	10.182	10.211	HH	40963	464633	1.18%	0.067%
138	10.229	10.211	10.267	HH	87499	1393228	3.54%	0.200%
139	10.289	10.267	10.325	HH	54123	901189	2.29%	0.130%
140	10.347	10.325	10.371	HH	59929	814833	2.07%	0.117%
141	10.398	10.371	10.421	HH	99022	1294788	3.29%	0.186%

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142	10.442	10.421	10.450	HH	22355	352710	0.90%	0.051%
143	10.459	10.450	10.472	HH	22430	270581	0.69%	0.039%
144	10.498	10.472	10.541	HH	112219	1783916	4.53%	0.256%
145	10.561	10.541	10.579	HH	29769	451236	1.15%	0.065%
146	10.592	10.579	10.614	HH	19346	296908	0.75%	0.043%
147	10.656	10.614	10.731	HH	19558	867697	2.21%	0.125%
148	10.759	10.731	10.770	HH	11766	236481	0.60%	0.034%
149	10.781	10.770	10.795	HH	11965	162125	0.41%	0.023%
150	10.814	10.795	10.842	HH	25369	457252	1.16%	0.066%
151	10.851	10.842	10.857	HH	12549	110790	0.28%	0.016%
152	10.872	10.857	10.883	HH	18691	242295	0.62%	0.035%
153	10.894	10.883	10.905	HH	19095	217951	0.55%	0.031%
154	10.923	10.905	10.935	HH	41245	533435	1.36%	0.077%
155	10.956	10.935	10.977	HH	101167	1401507	3.56%	0.201%
156	10.996	10.977	11.029	HH	71748	980952	2.49%	0.141%
157	11.072	11.029	11.090	HH	75583	1317844	3.35%	0.189%
158	11.096	11.090	11.109	HH	37138	382365	0.97%	0.055%
159	11.129	11.109	11.164	HH	120821	1774504	4.51%	0.255%
160	11.168	11.164	11.180	HH	23810	206015	0.52%	0.030%
161	11.208	11.180	11.221	HH	35284	687285	1.75%	0.099%
162	11.241	11.221	11.256	HH	74241	1024194	2.60%	0.147%
163	11.281	11.256	11.300	HH	139884	2405341	6.11%	0.346%
164	11.307	11.300	11.325	HH	46843	533287	1.36%	0.077%
165	11.352	11.325	11.361	HH	32187	588926	1.50%	0.085%
166	11.379	11.361	11.397	HH	55017	854209	2.17%	0.123%
167	11.414	11.397	11.435	HH	32362	602339	1.53%	0.087%
168	11.501	11.435	11.528	HH	2037937	28183427	71.64%	4.052%
169	11.563	11.528	11.615	HH	725642	8413902	21.39%	1.210%
170	11.636	11.615	11.671	HH	33033	880464	2.24%	0.127%
171	11.682	11.671	11.702	HH	25904	420886	1.07%	0.061%
172	11.723	11.702	11.739	HH	53077	789445	2.01%	0.114%
173	11.760	11.739	11.802	HH	203125	2836516	7.21%	0.408%
174	11.832	11.802	11.850	HH	39224	872891	2.22%	0.125%
175	11.869	11.850	11.884	HH	53814	835347	2.12%	0.120%
176	11.898	11.884	11.923	HH	46201	808070	2.05%	0.116%
177	11.968	11.923	11.977	HH	49829	1221246	3.10%	0.176%
178	12.001	11.977	12.040	HH	130207	2510078	6.38%	0.361%
179	12.066	12.040	12.095	HH	69876	1432382	3.64%	0.206%
180	12.126	12.095	12.145	HH	82277	1511420	3.84%	0.217%
181	12.167	12.145	12.192	HH	57076	1159256	2.95%	0.167%
182	12.204	12.192	12.217	HH	34846	483567	1.23%	0.070%
183	12.230	12.217	12.247	HH	37858	613310	1.56%	0.088%
184	12.279	12.247	12.295	HH	382121	4935067	12.54%	0.710%
185	12.313	12.295	12.344	HH	536158	6169508	15.68%	0.887%
186	12.378	12.344	12.387	HH	248811	3035100	7.72%	0.436%
187	12.400	12.387	12.414	HH	390772	4179490	10.62%	0.601%
188	12.429	12.414	12.443	HH	294188	3469989	8.82%	0.499%
189	12.461	12.443	12.481	HH	404362	4864119	12.36%	0.699%
190	12.492	12.481	12.506	HH	49500	645071	1.64%	0.093%
191	12.530	12.506	12.546	HH	61831	1170363	2.97%	0.168%
192	12.555	12.546	12.578	HH	52313	907756	2.31%	0.131%
193	12.596	12.578	12.617	HH	53904	1091618	2.77%	0.157%
194	12.643	12.617	12.695	HH	197561	4116255	10.46%	0.592%

195	12.740	12.695	12.761	HH	251598	4055144	10.31%	0.583%
196	12.774	12.761	12.788	HH	71356	999973	2.54%	0.144%
197	12.811	12.788	12.847	HH	152984	2887253	7.34%	0.415%
198	12.870	12.847	12.877	HH	81673	1176397	2.99%	0.169%
199	12.888	12.877	12.908	HH	89472	1280273	3.25%	0.184%
200	12.933	12.908	12.952	HH	57896	1419218	3.61%	0.204%
201	12.990	12.952	13.004	HH	105119	2255903	5.73%	0.324%
202	13.016	13.004	13.029	HH	94045	1209914	3.08%	0.174%
203	13.060	13.029	13.103	HH	168892	4752643	12.08%	0.683%
204	13.143	13.103	13.157	HH	190844	3380217	8.59%	0.486%
205	13.178	13.157	13.198	HH	278830	4689754	11.92%	0.674%
206	13.212	13.198	13.235	HH	147742	3023466	7.69%	0.435%
207	13.239	13.235	13.271	HH	130738	2458649	6.25%	0.353%
208	13.325	13.271	13.348	HH	2280631	39340239	100.00%	5.656%
209	13.363	13.348	13.376	HH	73369	1040314	2.64%	0.150%
210	13.392	13.376	13.410	HH	78275	1372343	3.49%	0.197%
211	13.435	13.410	13.465	HH	151728	3625866	9.22%	0.521%
212	13.484	13.465	13.499	HH	181985	2638129	6.71%	0.379%
213	13.513	13.499	13.546	HH	153018	3097389	7.87%	0.445%
214	13.556	13.546	13.572	HH	89892	1245137	3.17%	0.179%
215	13.623	13.572	13.637	HH	2044118	32975337	83.82%	4.741%
216	13.653	13.637	13.666	HH	321931	3656162	9.29%	0.526%
217	13.681	13.666	13.709	HH	371555	5013730	12.74%	0.721%
218	13.732	13.709	13.741	HH	77579	1461573	3.72%	0.210%
219	13.763	13.741	13.778	HH	169879	2586221	6.57%	0.372%
220	13.798	13.778	13.832	HH	184025	3618584	9.20%	0.520%
221	13.856	13.832	13.884	HH	242001	4100736	10.42%	0.590%
222	13.891	13.884	13.898	HH	83583	698839	1.78%	0.100%
223	13.918	13.898	13.958	HH	124885	3339448	8.49%	0.480%
224	13.985	13.958	14.002	HH	168367	2988435	7.60%	0.430%
225	14.008	14.002	14.024	HH	127734	1546845	3.93%	0.222%
226	14.050	14.024	14.072	HH	298267	5194668	13.20%	0.747%
227	14.084	14.072	14.102	HH	87170	1386612	3.52%	0.199%
228	14.184	14.102	14.221	HH	548502	12846678	32.66%	1.847%
229	14.239	14.221	14.259	HH	116134	2170616	5.52%	0.312%
230	14.287	14.259	14.309	HH	382751	6182809	15.72%	0.889%
231	14.332	14.309	14.352	HH	333599	5062461	12.87%	0.728%
232	14.365	14.352	14.382	HH	136996	2144844	5.45%	0.308%
233	14.435	14.382	14.443	HH	176567	4915216	12.49%	0.707%
234	14.461	14.443	14.480	HH	312912	4619447	11.74%	0.664%
235	14.499	14.480	14.531	HH	295319	5006571	12.73%	0.720%
236	14.568	14.531	14.586	HH	142206	3533871	8.98%	0.508%
237	14.595	14.586	14.599	HH	98530	779460	1.98%	0.112%
238	14.615	14.599	14.636	HH	108536	2221427	5.65%	0.319%
239	14.645	14.636	14.660	HH	97706	1376683	3.50%	0.198%
240	14.674	14.660	14.688	HH	95049	1519678	3.86%	0.218%
241	14.700	14.688	14.715	HH	94027	1422058	3.61%	0.204%
242	14.755	14.715	14.801	HH	108748	4439885	11.29%	0.638%
243	14.814	14.801	14.823	HH	81793	1061523	2.70%	0.153%
244	14.874	14.823	14.896	HH	232397	6359166	16.16%	0.914%
245	14.917	14.896	14.938	HH	305506	4948600	12.58%	0.711%
246	14.970	14.938	14.981	HH	121328	2907297	7.39%	0.418%

247	15.014	14.981	15.047	HH	148309	4854783	12.34%	0.698%
248	15.048	15.047	15.062	HH	102272	828058	2.10%	0.119%
249	15.091	15.062	15.111	HH	315802	5922519	15.05%	0.851%
250	15.118	15.111	15.131	HH	146658	1647611	4.19%	0.237%
251	15.156	15.131	15.180	HH	425654	7867784	20.00%	1.131%
252	15.196	15.180	15.205	HH	208745	2751646	6.99%	0.396%
253	15.223	15.205	15.252	HH	324793	5732265	14.57%	0.824%
254	15.281	15.252	15.308	HH	215194	5125523	13.03%	0.737%
255	15.339	15.308	15.399	HH	179583	6664662	16.94%	0.958%
256	15.436	15.399	15.442	HH	166664	3487285	8.86%	0.501%
257	15.481	15.442	15.501	HH	1216179	22234614	56.52%	3.197%
258	15.531	15.501	15.549	HH	1281670	19284335	49.02%	2.773%
259	15.557	15.549	15.584	HH	131970	2477248	6.30%	0.356%
260	15.638	15.584	15.670	HH	371757	9643902	24.51%	1.387%
261	15.705	15.670	15.738	HH	212347	5961574	15.15%	0.857%
262	15.768	15.738	15.792	HH	242016	5360902	13.63%	0.771%
263	15.812	15.792	15.842	HH	220100	5106162	12.98%	0.734%
264	15.864	15.842	15.887	HH	176711	4058849	10.32%	0.584%
265	15.911	15.887	15.937	HH	185601	4684785	11.91%	0.674%
266	15.951	15.937	15.972	HH	149031	2787503	7.09%	0.401%
267	16.005	15.972	16.024	HH	147134	3927547	9.98%	0.565%
268	16.048	16.024	16.066	HH	138919	3256401	8.28%	0.468%
269	16.090	16.066	16.114	HH	183023	4393793	11.17%	0.632%
270	16.141	16.114	16.160	HH	448336	7601144	19.32%	1.093%
271	16.177	16.160	16.213	HH	283021	6136516	15.60%	0.882%
272	16.228	16.213	16.243	HH	183662	2943053	7.48%	0.423%
273	16.247	16.243	16.262	HH	169540	1831509	4.66%	0.263%
274	16.287	16.262	16.300	HH	289393	5375301	13.66%	0.773%
275	16.306	16.300	16.330	HH	267416	3733688	9.49%	0.537%
276	16.370	16.330	16.397	HH	202469	6160301	15.66%	0.886%
277	16.412	16.397	16.430	HH	141494	2558920	6.50%	0.368%
278	16.452	16.430	16.479	HH	178806	4229611	10.75%	0.608%
279	16.511	16.479	16.537	HH	177624	5307490	13.49%	0.763%
280	16.567	16.537	16.602	HH	149833	5467181	13.90%	0.786%
281	16.634	16.602	16.653	HH	135217	3930946	9.99%	0.565%
282	16.662	16.653	16.673	HH	131966	1548476	3.94%	0.223%
283	16.681	16.673	16.685	HH	127369	887529	2.26%	0.128%
284	16.689	16.685	16.698	HH	127695	967273	2.46%	0.139%
285	16.728	16.698	16.754	HH	171608	4980143	12.66%	0.716%
286	16.769	16.754	16.790	HH	188112	3471864	8.83%	0.499%
287	16.820	16.790	16.856	HH	196944	6475338	16.46%	0.931%
288	16.894	16.856	16.912	HH	165329	5104522	12.98%	0.734%
289	16.939	16.912	16.962	HH	201980	5283202	13.43%	0.760%
290	16.988	16.962	17.000	HH	203030	3925328	9.98%	0.564%
291	17.050	17.000	17.064	HH	1068455	24612741	62.56%	3.539%
292	17.072	17.064	17.095	HH	789637	8125154	20.65%	1.168%
293	17.099	17.095	17.122	HH	154802	2441960	6.21%	0.351%
294	17.165	17.122	17.182	HH	391078	8370448	21.28%	1.203%
295	17.188	17.182	17.206	HH	192705	2507279	6.37%	0.360%
296	17.218	17.206	17.246	HH	162560	3746015	9.52%	0.539%
297	17.277	17.246	17.289	HH	184626	4334858	11.02%	0.623%
298	17.318	17.289	17.331	HH	272378	5882959	14.95%	0.846%
299	17.369	17.331	17.392	HH	731447	16268244	41.35%	2.339%

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300	17.436	17.392	17.461	HHA	1143763	21250394	54.02%	3.055%

Sum of corrected areas: 695541847

FE012325.M Mon Feb 03 02:12:25 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052174.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 13:38
Operator : YP\AJ
Sample : Q1241-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025

Integration File: autoint1.e
Quant Time: Feb 03 00:09:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
9) S	TETRACOSANE-d50 (SURR...	15.286	1842824	18.503 ug/ml
Target Compounds				

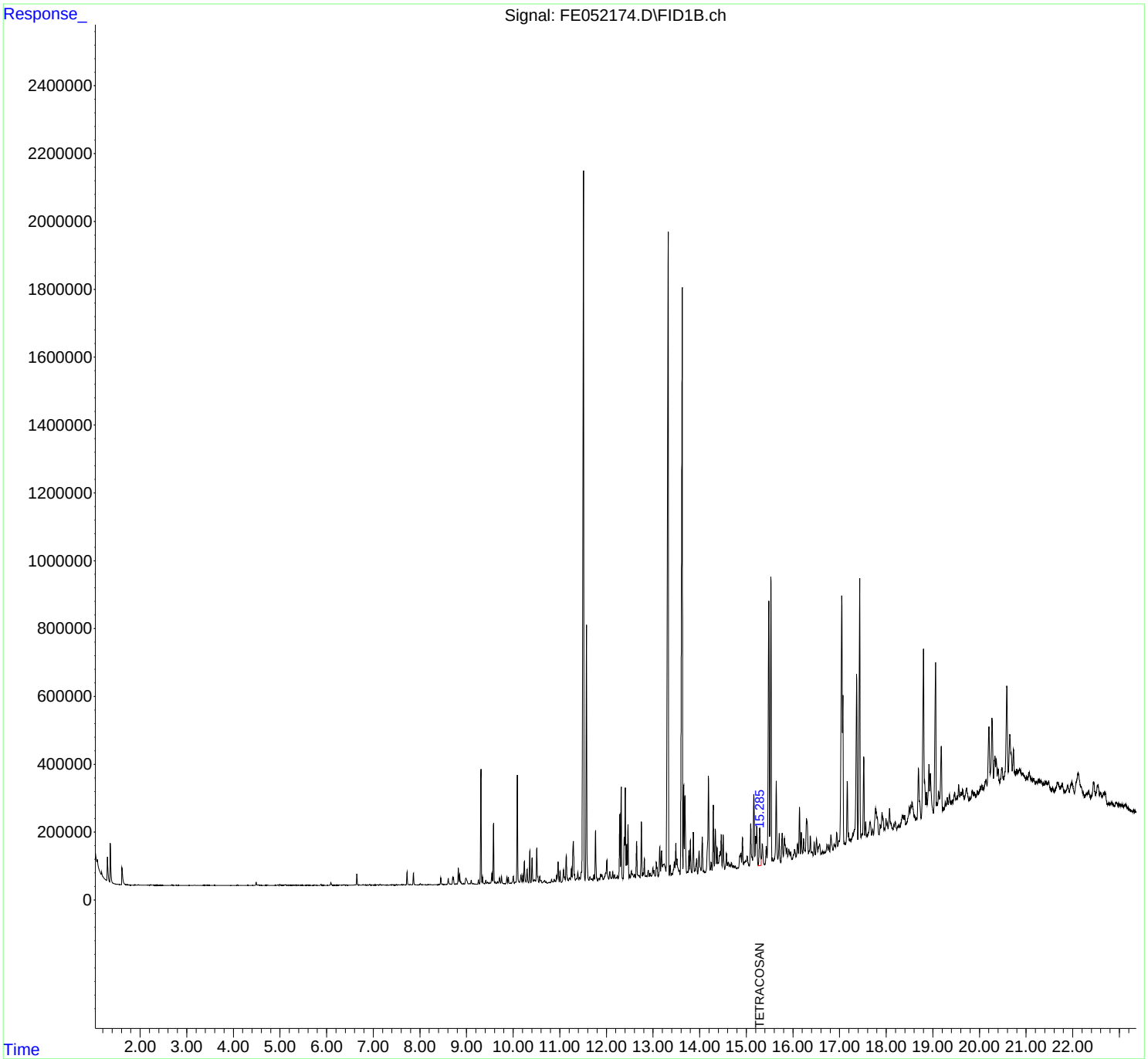
(f)=RT Delta > 1/2 Window (m)=manual int.

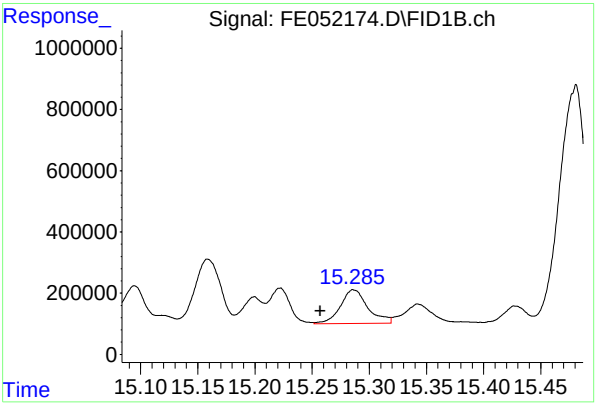
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052174.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 13:38
Operator : YP\AJ
Sample : Q1241-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025

Integration File: autoint1.e
Quant Time: Feb 03 00:09:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.286 min
Delta R.T.: 0.029 mi
Response: 1842824
Conc: 18.50 ug/m

Instrument :
FID_E
ClientSampleId :
JPP-5.3-013025

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052174.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 13:38
Sample : Q1241-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.905	4.852	4.920	BH	304	4921	0.02%	0.001%
2	4.931	4.920	4.938	HH	260	1376	0.00%	0.000%
3	4.956	4.938	4.979	HH	1835	19545	0.06%	0.004%
4	4.997	4.979	5.024	HH	2618	29796	0.10%	0.006%
5	5.030	5.024	5.042	HH	328	2995	0.01%	0.001%
6	5.071	5.042	5.077	HH	392	5583	0.02%	0.001%
7	5.114	5.077	5.159	HH	1949	39851	0.13%	0.008%
8	5.163	5.159	5.169	HH	264	1033	0.00%	0.000%
9	5.197	5.169	5.221	HH	693	12426	0.04%	0.003%
10	5.232	5.221	5.247	HH	492	5944	0.02%	0.001%
11	5.251	5.247	5.255	HH	377	1570	0.01%	0.000%
12	5.268	5.255	5.297	HH	714	9988	0.03%	0.002%
13	5.322	5.297	5.356	HH	842	15786	0.05%	0.003%
14	5.362	5.356	5.384	HH	558	7778	0.03%	0.002%
15	5.406	5.384	5.434	HH	642	13366	0.04%	0.003%
16	5.450	5.434	5.475	HH	626	10264	0.03%	0.002%
17	5.477	5.475	5.518	HH	370	5665	0.02%	0.001%
18	5.545	5.518	5.557	HH	501	7896	0.03%	0.002%
19	5.571	5.557	5.585	HH	547	6603	0.02%	0.001%
20	5.597	5.585	5.610	HH	641	6449	0.02%	0.001%
21	5.617	5.610	5.636	HH	514	5638	0.02%	0.001%
22	5.640	5.636	5.645	HH	253	1576	0.01%	0.000%
23	5.649	5.645	5.675	HH	405	4751	0.02%	0.001%
24	5.684	5.675	5.693	HH	284	2038	0.01%	0.000%
25	5.710	5.693	5.725	HH	499	5496	0.02%	0.001%
26	5.737	5.725	5.741	HH	524	3778	0.01%	0.001%
27	5.751	5.741	5.775	HH	594	8755	0.03%	0.002%
28	5.793	5.775	5.807	HH	412	4835	0.02%	0.001%
29	5.812	5.807	5.819	HH	180	982	0.00%	0.000%
30	5.827	5.819	5.838	HH	176	1316	0.00%	0.000%
31	5.842	5.838	5.854	HH	202	1335	0.00%	0.000%
32	5.875	5.854	5.897	HH	2401	27391	0.09%	0.006%
33	5.901	5.897	5.927	HH	443	5626	0.02%	0.001%
34	5.945	5.927	5.980	HH	597	10598	0.03%	0.002%
35	5.990	5.980	5.997	HH	242	1529	0.01%	0.000%
36	6.001	5.997	6.005	HH	136	672	0.00%	0.000%

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37	6.018	6.005	6.042	HH	339	4993	0.02%	0.001%
38	6.066	6.042	6.073	HH	879	8419	0.03%	0.002%
39	6.091	6.073	6.131	HH	8856	100975	0.33%	0.021%
40	6.143	6.131	6.166	HH	466	7047	0.02%	0.001%
41	6.182	6.166	6.207	HH	668	10269	0.03%	0.002%
42	6.210	6.207	6.220	HH	329	2359	0.01%	0.000%
43	6.224	6.220	6.232	HH	325	2256	0.01%	0.000%
44	6.246	6.232	6.257	HH	456	5461	0.02%	0.001%
45	6.271	6.257	6.286	HH	1106	12978	0.04%	0.003%
46	6.297	6.286	6.321	HH	889	13630	0.04%	0.003%
47	6.372	6.321	6.406	HH	2066	43046	0.14%	0.009%
48	6.421	6.406	6.444	HH	1296	17446	0.06%	0.004%
49	6.464	6.444	6.472	HH	623	9271	0.03%	0.002%
50	6.487	6.472	6.501	HH	790	11620	0.04%	0.002%
51	6.512	6.501	6.530	HH	834	12200	0.04%	0.003%
52	6.543	6.530	6.558	HH	735	10966	0.04%	0.002%
53	6.564	6.558	6.572	HH	577	3985	0.01%	0.001%
54	6.594	6.572	6.604	HH	1364	19373	0.06%	0.004%
55	6.617	6.604	6.625	HH	1185	14747	0.05%	0.003%
56	6.649	6.625	6.683	HH	33862	334696	1.10%	0.070%
57	6.699	6.683	6.721	HH	2218	27947	0.09%	0.006%
58	6.736	6.721	6.747	HH	767	10325	0.03%	0.002%
59	6.753	6.747	6.761	HH	692	5239	0.02%	0.001%
60	6.779	6.761	6.805	HH	2662	38890	0.13%	0.008%
61	6.825	6.805	6.851	HH	1212	26151	0.09%	0.005%
62	6.868	6.851	6.896	HH	1134	23091	0.08%	0.005%
63	6.919	6.896	6.954	HH	2845	47944	0.16%	0.010%
64	6.970	6.954	6.986	HH	1053	15822	0.05%	0.003%
65	7.009	6.986	7.019	HH	960	16858	0.06%	0.004%
66	7.038	7.019	7.051	HH	1041	17268	0.06%	0.004%
67	7.075	7.051	7.086	HH	1889	27843	0.09%	0.006%
68	7.093	7.086	7.126	HH	1521	27560	0.09%	0.006%
69	7.145	7.126	7.178	HH	3780	52618	0.17%	0.011%
70	7.225	7.178	7.250	HH	1521	47565	0.16%	0.010%
71	7.289	7.250	7.325	HH	1428	43070	0.14%	0.009%
72	7.332	7.325	7.336	HH	808	4974	0.02%	0.001%
73	7.373	7.336	7.395	HH	1875	44869	0.15%	0.009%
74	7.414	7.395	7.453	HH	2150	42914	0.14%	0.009%
75	7.468	7.453	7.478	HH	1132	15055	0.05%	0.003%
76	7.497	7.478	7.516	HH	2512	35830	0.12%	0.008%
77	7.534	7.516	7.553	HH	2130	35534	0.12%	0.007%
78	7.563	7.553	7.587	HH	1611	29594	0.10%	0.006%
79	7.598	7.587	7.608	HH	1986	22610	0.07%	0.005%
80	7.631	7.608	7.643	HH	2047	38243	0.13%	0.008%
81	7.657	7.643	7.691	HH	2133	49830	0.16%	0.010%
82	7.725	7.691	7.755	HH	39883	423811	1.39%	0.089%
83	7.768	7.755	7.772	HH	2132	20175	0.07%	0.004%
84	7.783	7.772	7.807	HH	2478	48244	0.16%	0.010%
85	7.817	7.807	7.837	HH	2366	35519	0.12%	0.007%
86	7.862	7.837	7.892	HH	36498	384416	1.26%	0.080%
87	7.907	7.892	7.926	HH	2161	36864	0.12%	0.008%
88	7.940	7.926	7.950	HH	1594	22442	0.07%	0.005%
89	7.954	7.950	7.968	HH	1716	17761	0.06%	0.004%

90	8.007	7.968	8.050	HH	4736	116412	0.38%	0.024%
91	8.063	8.050	8.068	HH	2029	20885	0.07%	0.004%
92	8.088	8.068	8.103	HH	2405	44189	0.14%	0.009%
93	8.111	8.103	8.142	HH	2018	40650	0.13%	0.009%
94	8.161	8.142	8.167	HH	1834	25457	0.08%	0.005%
95	8.198	8.167	8.207	HH	2539	51190	0.17%	0.011%
96	8.219	8.207	8.245	HH	2486	48986	0.16%	0.010%
97	8.250	8.245	8.279	HH	1936	33896	0.11%	0.007%
98	8.307	8.279	8.314	HH	2168	39085	0.13%	0.008%
99	8.319	8.314	8.387	HH	2246	85586	0.28%	0.018%
100	8.411	8.387	8.426	HH	2629	52717	0.17%	0.011%
101	8.449	8.426	8.476	HH	22824	272717	0.89%	0.057%
102	8.483	8.476	8.508	HH	3130	53112	0.17%	0.011%
103	8.531	8.508	8.545	HH	2988	59774	0.20%	0.013%
104	8.553	8.545	8.565	HH	2905	32419	0.11%	0.007%
105	8.576	8.565	8.587	HH	3109	37959	0.12%	0.008%
106	8.609	8.587	8.647	HH	20325	303742	1.00%	0.064%
107	8.655	8.647	8.672	HH	4193	53540	0.18%	0.011%
108	8.706	8.672	8.714	HH	24844	279618	0.92%	0.059%
109	8.721	8.714	8.758	HH	23241	265344	0.87%	0.056%
110	8.776	8.758	8.794	HH	5441	90519	0.30%	0.019%
111	8.826	8.794	8.841	HH	51441	573451	1.88%	0.120%
112	8.854	8.841	8.870	HH	33287	352790	1.16%	0.074%
113	8.879	8.870	8.897	HH	11268	136616	0.45%	0.029%
114	8.908	8.897	8.924	HH	5246	74141	0.24%	0.016%
115	8.941	8.924	8.958	HH	6270	97505	0.32%	0.020%
116	8.989	8.958	9.045	HH	22651	610216	2.00%	0.128%
117	9.059	9.045	9.082	HH	5590	108323	0.36%	0.023%
118	9.101	9.082	9.131	HH	15383	227590	0.75%	0.048%
119	9.144	9.131	9.163	HH	5650	90510	0.30%	0.019%
120	9.181	9.163	9.199	HH	4147	85695	0.28%	0.018%
121	9.209	9.199	9.219	HH	3535	41460	0.14%	0.009%
122	9.257	9.219	9.281	HH	15936	257883	0.85%	0.054%
123	9.310	9.281	9.331	HH	342814	3324324	10.90%	0.696%
124	9.344	9.331	9.389	HH	25127	382436	1.25%	0.080%
125	9.414	9.389	9.433	HH	15290	239840	0.79%	0.050%
126	9.448	9.433	9.479	HH	9370	204948	0.67%	0.043%
127	9.493	9.479	9.503	HH	6860	88700	0.29%	0.019%
128	9.511	9.503	9.521	HH	7038	71347	0.23%	0.015%
129	9.546	9.521	9.560	HH	36203	505290	1.66%	0.106%
130	9.579	9.560	9.602	HH	183330	1914518	6.28%	0.401%
131	9.612	9.602	9.641	HH	10890	185248	0.61%	0.039%
132	9.664	9.641	9.680	HH	11842	197419	0.65%	0.041%
133	9.710	9.680	9.729	HH	22671	376681	1.23%	0.079%
134	9.752	9.729	9.774	HH	26064	366087	1.20%	0.077%
135	9.778	9.774	9.797	HH	6714	82769	0.27%	0.017%
136	9.814	9.797	9.829	HH	5765	97470	0.32%	0.020%
137	9.868	9.829	9.884	HH	25543	389910	1.28%	0.082%
138	9.899	9.884	9.932	HH	24422	332269	1.09%	0.070%
139	9.953	9.932	9.965	HH	6905	127735	0.42%	0.027%
140	10.004	9.965	10.026	HH	26591	493522	1.62%	0.103%
141	10.043	10.026	10.053	HH	10100	143712	0.47%	0.030%

142	10.091	10.053	10.135	HH	324994	3493169	11.45%	0.731%
143	10.169	10.135	10.192	HH	30203	598643	1.96%	0.125%
144	10.208	10.192	10.221	HH	29654	343543	1.13%	0.072%
145	10.241	10.221	10.276	HH	70945	1064930	3.49%	0.223%
146	10.300	10.276	10.333	HH	47325	730864	2.40%	0.153%
147	10.357	10.333	10.382	HH	102324	1131113	3.71%	0.237%
148	10.407	10.382	10.433	HH	81776	1041715	3.41%	0.218%
149	10.450	10.433	10.460	HH	16830	239929	0.79%	0.050%
150	10.468	10.460	10.482	HH	15857	185472	0.61%	0.039%
151	10.507	10.482	10.551	HH	109729	1629884	5.34%	0.341%
152	10.571	10.551	10.590	HH	27060	409729	1.34%	0.086%
153	10.600	10.590	10.622	HH	14339	215008	0.70%	0.045%
154	10.676	10.622	10.694	HH	13463	458223	1.50%	0.096%
155	10.707	10.694	10.740	HH	11436	235960	0.77%	0.049%
156	10.769	10.740	10.780	HH	9142	193696	0.63%	0.041%
157	10.789	10.780	10.802	HH	8967	115226	0.38%	0.024%
158	10.824	10.802	10.847	HH	17874	330464	1.08%	0.069%
159	10.881	10.847	10.894	HH	18170	372392	1.22%	0.078%
160	10.902	10.894	10.914	HH	13605	149381	0.49%	0.031%
161	10.934	10.914	10.945	HH	29651	398854	1.31%	0.084%
162	10.966	10.945	10.987	HH	69517	976323	3.20%	0.204%
163	11.005	10.987	11.039	HH	41972	632591	2.07%	0.132%
164	11.081	11.039	11.099	HH	46888	854858	2.80%	0.179%
165	11.104	11.099	11.118	HH	24776	252940	0.83%	0.053%
166	11.139	11.118	11.188	HH	87991	1440684	4.72%	0.302%
167	11.206	11.188	11.228	HH	21642	459203	1.51%	0.096%
168	11.251	11.228	11.264	HH	50398	720648	2.36%	0.151%
169	11.292	11.264	11.311	HH	130257	2230125	7.31%	0.467%
170	11.316	11.311	11.334	HH	32385	342815	1.12%	0.072%
171	11.358	11.334	11.368	HH	20078	377092	1.24%	0.079%
172	11.388	11.368	11.407	HH	38146	633518	2.08%	0.133%
173	11.423	11.407	11.442	HH	23989	420703	1.38%	0.088%
174	11.511	11.442	11.542	HH	2106926	29491933	96.67%	6.175%
175	11.574	11.542	11.625	HH	767625	8622851	28.26%	1.805%
176	11.647	11.625	11.682	HH	24985	686668	2.25%	0.144%
177	11.692	11.682	11.711	HH	19183	286359	0.94%	0.060%
178	11.731	11.711	11.746	HH	31201	471854	1.55%	0.099%
179	11.768	11.746	11.811	HH	162189	2160065	7.08%	0.452%
180	11.841	11.811	11.858	HH	21193	508266	1.67%	0.106%
181	11.879	11.858	11.893	HH	33652	547195	1.79%	0.115%
182	11.906	11.893	11.931	HH	30829	582695	1.91%	0.122%
183	12.011	11.931	12.051	HH	74828	2400086	7.87%	0.503%
184	12.074	12.051	12.104	HH	41075	866662	2.84%	0.181%
185	12.134	12.104	12.154	HH	40981	832887	2.73%	0.174%
186	12.174	12.154	12.198	HH	30852	649546	2.13%	0.136%
187	12.212	12.198	12.222	HH	22591	319989	1.05%	0.067%
188	12.238	12.222	12.254	HH	29326	463250	1.52%	0.097%
189	12.286	12.254	12.301	HH	208295	2597433	8.51%	0.544%
190	12.318	12.301	12.348	HH	290820	3383216	11.09%	0.708%
191	12.353	12.348	12.359	HH	21082	132403	0.43%	0.028%
192	12.383	12.359	12.392	HH	142438	1602669	5.25%	0.336%
193	12.406	12.392	12.421	HH	286993	3159270	10.36%	0.661%
194	12.434	12.421	12.447	HH	120456	1393744	4.57%	0.292%

195	12.465	12.447	12.486	HH	180065	2302361	7.55%	0.482%
196	12.500	12.486	12.514	HH	31067	441100	1.45%	0.092%
197	12.537	12.514	12.553	HH	43040	778566	2.55%	0.163%
198	12.563	12.553	12.582	HH	34401	520074	1.70%	0.109%
199	12.600	12.582	12.620	HH	33277	646037	2.12%	0.135%
200	12.648	12.620	12.684	HH	130206	2178734	7.14%	0.456%
201	12.693	12.684	12.722	HH	29204	617714	2.02%	0.129%
202	12.747	12.722	12.768	HH	187728	2394921	7.85%	0.501%
203	12.781	12.768	12.794	HH	37217	516760	1.69%	0.108%
204	12.814	12.794	12.834	HH	79346	1168397	3.83%	0.245%
205	12.847	12.834	12.854	HH	27904	331818	1.09%	0.069%
206	12.860	12.854	12.874	HH	27911	322287	1.06%	0.067%
207	12.895	12.874	12.915	HH	44698	826950	2.71%	0.173%
208	12.934	12.915	12.968	HH	34972	970559	3.18%	0.203%
209	12.998	12.968	13.011	HH	52189	996218	3.27%	0.209%
210	13.022	13.011	13.048	HH	44465	793911	2.60%	0.166%
211	13.068	13.048	13.081	HH	68897	964087	3.16%	0.202%
212	13.086	13.081	13.110	HH	52935	704684	2.31%	0.148%
213	13.145	13.110	13.164	HH	114291	1969080	6.45%	0.412%
214	13.183	13.164	13.202	HH	102567	1680630	5.51%	0.352%
215	13.216	13.202	13.229	HH	61819	940139	3.08%	0.197%
216	13.240	13.229	13.276	HH	62979	1576770	5.17%	0.330%
217	13.327	13.276	13.350	HH	1925176	30507562	100.00%	6.387%
218	13.367	13.350	13.384	HH	59601	865258	2.84%	0.181%
219	13.397	13.384	13.415	HH	35513	606872	1.99%	0.127%
220	13.456	13.415	13.468	HH	68966	1590724	5.21%	0.333%
221	13.490	13.468	13.505	HH	125150	1927170	6.32%	0.403%
222	13.515	13.505	13.549	HH	77420	1542094	5.05%	0.323%
223	13.559	13.549	13.575	HH	44239	627286	2.06%	0.131%
224	13.625	13.575	13.640	HH	1762573	25210957	82.64%	5.278%
225	13.658	13.640	13.671	HH	295591	3312865	10.86%	0.694%
226	13.685	13.671	13.717	HH	264461	3677787	12.06%	0.770%
227	13.736	13.717	13.747	HH	40478	700620	2.30%	0.147%
228	13.769	13.747	13.783	HH	102603	1478007	4.84%	0.309%
229	13.802	13.783	13.835	HH	133469	2295666	7.52%	0.481%
230	13.862	13.835	13.887	HH	156770	2482319	8.14%	0.520%
231	13.935	13.887	13.958	HH	78478	2256994	7.40%	0.473%
232	13.990	13.958	14.028	HH	102562	2585641	8.48%	0.541%
233	14.054	14.028	14.080	HH	142387	2656508	8.71%	0.556%
234	14.089	14.080	14.107	HH	42986	657250	2.15%	0.138%
235	14.186	14.107	14.222	HH	322272	7044007	23.09%	1.475%
236	14.245	14.222	14.263	HH	67923	1344612	4.41%	0.282%
237	14.292	14.263	14.313	HH	237281	3729408	12.22%	0.781%
238	14.334	14.313	14.353	HH	166250	2504557	8.21%	0.524%
239	14.371	14.353	14.402	HH	111635	2339585	7.67%	0.490%
240	14.421	14.402	14.426	HH	87467	1132479	3.71%	0.237%
241	14.437	14.426	14.446	HH	99821	1119991	3.67%	0.234%
242	14.463	14.446	14.482	HH	149254	2268999	7.44%	0.475%
243	14.502	14.482	14.536	HH	148971	2747584	9.01%	0.575%
244	14.572	14.536	14.591	HH	94725	2255974	7.39%	0.472%
245	14.616	14.591	14.634	HH	67866	1613188	5.29%	0.338%
246	14.651	14.634	14.665	HH	61611	1093265	3.58%	0.229%

247	14.680	14.665	14.697	HH	66984	1190675	3.90%	0.249%
248	14.705	14.697	14.715	HH	57888	581200	1.91%	0.122%
249	14.731	14.715	14.747	HH	57772	1088696	3.57%	0.228%
250	14.763	14.747	14.783	HH	57207	1170513	3.84%	0.245%
251	14.787	14.783	14.802	HH	50980	549012	1.80%	0.115%
252	14.816	14.802	14.826	HH	53258	766847	2.51%	0.161%
253	14.856	14.826	14.862	HH	85935	1442304	4.73%	0.302%
254	14.883	14.862	14.898	HH	95734	1888457	6.19%	0.395%
255	14.918	14.898	14.940	HH	140748	2445085	8.01%	0.512%
256	14.953	14.940	14.965	HH	67886	972191	3.19%	0.204%
257	14.978	14.965	14.987	HH	72303	911594	2.99%	0.191%
258	14.995	14.987	15.002	HH	72513	682325	2.24%	0.143%
259	15.018	15.002	15.064	HH	86042	2581438	8.46%	0.540%
260	15.095	15.064	15.132	HH	181284	4338596	14.22%	0.908%
261	15.159	15.132	15.182	HH	267825	5005029	16.41%	1.048%
262	15.199	15.182	15.209	HH	144859	1939427	6.36%	0.406%
263	15.222	15.209	15.252	HH	173350	2916773	9.56%	0.611%
264	15.286	15.252	15.319	HH	168530	4181866	13.71%	0.876%
265	15.343	15.319	15.400	HH	121825	3994113	13.09%	0.836%
266	15.428	15.400	15.444	HH	115091	2304401	7.55%	0.482%
267	15.481	15.444	15.500	HH	836825	14206449	46.57%	2.974%
268	15.527	15.500	15.547	HH	907157	12143131	39.80%	2.542%
269	15.559	15.547	15.579	HH	80564	1443500	4.73%	0.302%
270	15.640	15.579	15.675	HH	305709	7394361	24.24%	1.548%
271	15.705	15.675	15.740	HH	153925	3862727	12.66%	0.809%
272	15.767	15.740	15.793	HH	153967	3379300	11.08%	0.708%
273	15.815	15.793	15.854	HH	139295	4201714	13.77%	0.880%
274	15.868	15.854	15.886	HH	110186	1891500	6.20%	0.396%
275	15.909	15.886	15.938	HH	107167	2988483	9.80%	0.626%
276	15.952	15.938	15.971	HH	98434	1799464	5.90%	0.377%
277	16.011	15.971	16.017	HH	91207	2291551	7.51%	0.480%
278	16.034	16.017	16.067	HH	106146	2834943	9.29%	0.594%
279	16.094	16.067	16.115	HH	122041	2999275	9.83%	0.628%
280	16.139	16.115	16.158	HH	230329	4011923	13.15%	0.840%
281	16.177	16.158	16.209	HH	156389	3599021	11.80%	0.754%
282	16.227	16.209	16.259	HH	137059	3321988	10.89%	0.696%
283	16.290	16.259	16.331	HH	195898	6398285	20.97%	1.340%
284	16.372	16.331	16.393	HH	145367	4151736	13.61%	0.869%
285	16.412	16.393	16.431	HH	98218	2199700	7.21%	0.461%
286	16.453	16.431	16.479	HH	127330	2966501	9.72%	0.621%
287	16.504	16.479	16.533	HH	137461	3720043	12.19%	0.779%
288	16.568	16.533	16.603	HH	121843	4586136	15.03%	0.960%
289	16.616	16.603	16.622	HH	96778	1066353	3.50%	0.223%
290	16.629	16.622	16.648	HH	100210	1559234	5.11%	0.326%
291	16.669	16.648	16.677	HH	98197	1625369	5.33%	0.340%
292	16.688	16.677	16.692	HH	97766	894209	2.93%	0.187%
293	16.729	16.692	16.751	HH	120068	3819049	12.52%	0.800%
294	16.769	16.751	16.787	HH	119836	2381210	7.81%	0.499%
295	16.812	16.787	16.860	HH	148481	5317268	17.43%	1.113%
296	16.883	16.860	16.910	HH	120933	3468065	11.37%	0.726%
297	16.937	16.910	16.959	HH	156330	3907984	12.81%	0.818%
298	16.986	16.959	16.996	HH	132633	2758349	9.04%	0.578%
299	17.046	16.996	17.060	HH	854034	17869867	58.58%	3.741%

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300	17.069	17.060	17.094	HH	560379	6474687	21.22%	1.356%
301	17.109	17.094	17.119	HH	123236	1869925	6.13%	0.392%
302	17.163	17.119	17.182	HH	306121	6920365	22.68%	1.449%
303	17.192	17.182	17.208	HH	155960	2215688	7.26%	0.464%
304	17.225	17.208	17.240	HH	137040	2591507	8.49%	0.543%
305	17.283	17.240	17.292	HH	154041	4403196	14.43%	0.922%
306	17.365	17.292	17.388	HH	620475	15896721	52.11%	3.328%
307	17.430	17.388	17.460	HHA	905178	16720544	54.81%	3.501%

Sum of corrected areas: 477623589

FE012325.M Mon Feb 03 02:16:07 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052175.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 14:08
Operator : YP\AJ
Sample : Q1241-09
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-5.2-013025

Integration File: autoint1.e
Quant Time: Feb 03 00:10:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.289	1289079	12.943 ug/ml
Target Compounds			

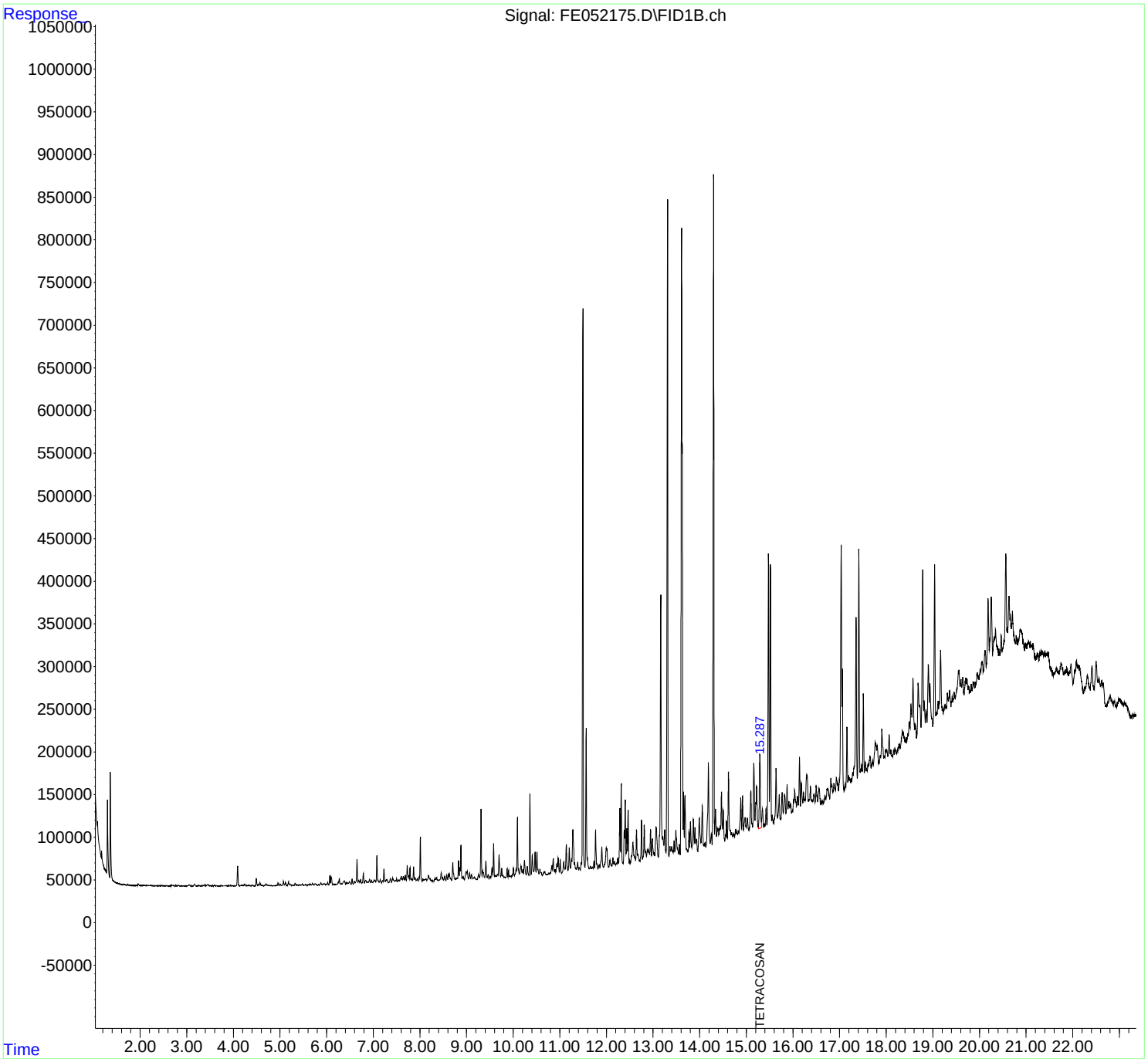
(f)=RT Delta > 1/2 Window (m)=manual int.

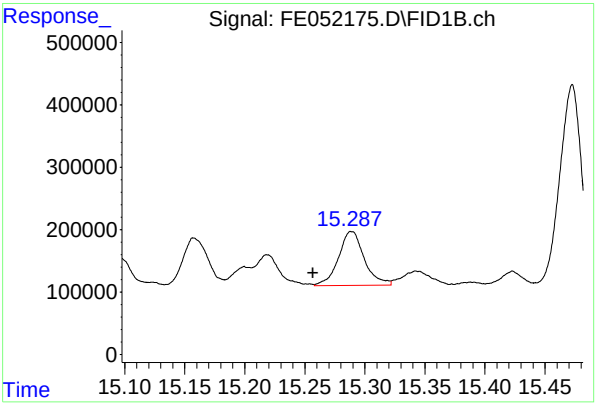
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052175.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 14:08
Operator : YP\AJ
Sample : Q1241-09
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-5.2-013025

Integration File: autoint1.e
Quant Time: Feb 03 00:10:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.289 min
Delta R.T.: 0.032 mi
Response: 1289079
Conc: 12.94 ug/m

Instrument :
FID_E
ClientSampleId :
JPP-5.2-013025

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052175.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 14:08
Sample : Q1241-09
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.865	4.851	4.879	BH	22	-646	-0.00%	-0.000%
2	4.882	4.879	4.886	PH	-10	-273	-0.00%	-0.000%
3	4.909	4.886	4.939	PH	278	3766	0.03%	0.001%
4	4.957	4.939	4.975	PH	3405	32867	0.24%	0.009%
5	5.000	4.975	5.025	HH	1638	26710	0.20%	0.008%
6	5.038	5.025	5.049	HH	617	5740	0.04%	0.002%
7	5.074	5.049	5.094	HH	5039	57038	0.42%	0.016%
8	5.116	5.094	5.155	HH	3827	55124	0.41%	0.016%
9	5.182	5.155	5.222	HH	4638	72567	0.54%	0.020%
10	5.234	5.222	5.253	HH	1293	13281	0.10%	0.004%
11	5.270	5.253	5.284	HH	918	10171	0.08%	0.003%
12	5.291	5.284	5.305	HH	568	6218	0.05%	0.002%
13	5.323	5.305	5.354	HH	2776	38229	0.28%	0.011%
14	5.370	5.354	5.391	HH	1025	15347	0.11%	0.004%
15	5.411	5.391	5.432	HH	1107	16426	0.12%	0.005%
16	5.452	5.432	5.466	HH	1141	14183	0.11%	0.004%
17	5.482	5.466	5.505	HH	2124	26767	0.20%	0.008%
18	5.541	5.505	5.562	HH	1295	25945	0.19%	0.007%
19	5.572	5.562	5.588	HH	1126	11282	0.08%	0.003%
20	5.617	5.588	5.631	HH	1295	22308	0.17%	0.006%
21	5.647	5.631	5.677	HH	1579	30192	0.22%	0.008%
22	5.695	5.677	5.726	HH	2727	47007	0.35%	0.013%
23	5.740	5.726	5.745	HH	1971	17486	0.13%	0.005%
24	5.758	5.745	5.785	HH	2373	40858	0.30%	0.012%
25	5.792	5.785	5.807	HH	1142	11732	0.09%	0.003%
26	5.828	5.807	5.839	HH	1049	14859	0.11%	0.004%
27	5.877	5.839	5.899	HH	3478	67813	0.50%	0.019%
28	5.913	5.899	5.919	HH	1665	18007	0.13%	0.005%
29	5.935	5.919	5.951	HH	2015	35721	0.26%	0.010%
30	5.960	5.951	5.975	HH	1885	24574	0.18%	0.007%
31	5.990	5.975	6.004	HH	1839	25874	0.19%	0.007%
32	6.023	6.004	6.048	HH	3809	52592	0.39%	0.015%
33	6.067	6.048	6.082	HH	11603	120141	0.89%	0.034%
34	6.096	6.082	6.130	HH	10307	170936	1.27%	0.048%
35	6.145	6.130	6.160	HH	1895	25390	0.19%	0.007%
36	6.195	6.160	6.202	HH	1550	34390	0.26%	0.010%

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37	6.213	6.202	6.223	HH	1764	19711	0.15%	0.006%
38	6.248	6.223	6.257	HH	3853	53361	0.40%	0.015%
39	6.272	6.257	6.292	HH	8485	104108	0.77%	0.029%
40	6.298	6.292	6.308	HH	2194	19325	0.14%	0.005%
41	6.324	6.308	6.336	HH	2359	34860	0.26%	0.010%
42	6.369	6.336	6.376	HH	5268	95683	0.71%	0.027%
43	6.384	6.376	6.413	HH	5419	79704	0.59%	0.022%
44	6.428	6.413	6.444	HH	3881	55765	0.41%	0.016%
45	6.456	6.444	6.465	HH	2975	34068	0.25%	0.010%
46	6.491	6.465	6.525	HH	4730	116246	0.86%	0.033%
47	6.546	6.525	6.574	HH	7393	109185	0.81%	0.031%
48	6.594	6.574	6.612	HH	5283	87013	0.65%	0.024%
49	6.652	6.612	6.673	HH	30874	392582	2.91%	0.111%
50	6.689	6.673	6.711	HH	6320	113158	0.84%	0.032%
51	6.729	6.711	6.751	HH	7155	118949	0.88%	0.033%
52	6.760	6.751	6.764	HH	3367	25881	0.19%	0.007%
53	6.787	6.764	6.810	HH	14309	210758	1.56%	0.059%
54	6.832	6.810	6.837	HH	5702	79850	0.59%	0.022%
55	6.845	6.837	6.860	HH	5943	70116	0.52%	0.020%
56	6.868	6.860	6.878	HH	4378	44578	0.33%	0.013%
57	6.886	6.878	6.894	HH	4361	38570	0.29%	0.011%
58	6.923	6.894	6.946	HH	7489	165532	1.23%	0.047%
59	6.964	6.946	6.984	HH	6230	107581	0.80%	0.030%
60	7.022	6.984	7.056	HH	6451	212721	1.58%	0.060%
61	7.078	7.056	7.098	HH	35389	399886	2.97%	0.113%
62	7.104	7.098	7.126	HH	6151	85306	0.63%	0.024%
63	7.149	7.126	7.180	HH	7140	156816	1.16%	0.044%
64	7.200	7.180	7.213	HH	6010	97824	0.73%	0.028%
65	7.229	7.213	7.249	HH	19472	235507	1.75%	0.066%
66	7.285	7.249	7.334	HH	7129	282765	2.10%	0.080%
67	7.367	7.334	7.390	HH	8245	190189	1.41%	0.054%
68	7.414	7.390	7.425	HH	9120	136818	1.01%	0.039%
69	7.432	7.425	7.458	HH	7124	120448	0.89%	0.034%
70	7.479	7.458	7.488	HH	6059	103405	0.77%	0.029%
71	7.501	7.488	7.519	HH	8385	117943	0.87%	0.033%
72	7.538	7.519	7.557	HH	6932	133593	0.99%	0.038%
73	7.583	7.557	7.590	HH	8355	139514	1.03%	0.039%
74	7.601	7.590	7.616	HH	11276	146940	1.09%	0.041%
75	7.621	7.616	7.631	HH	7636	66637	0.49%	0.019%
76	7.645	7.631	7.672	HH	10641	211667	1.57%	0.060%
77	7.687	7.672	7.711	HH	11990	197266	1.46%	0.056%
78	7.729	7.711	7.755	HH	23956	377685	2.80%	0.106%
79	7.762	7.755	7.773	HH	11559	114718	0.85%	0.032%
80	7.788	7.773	7.808	HH	21349	267600	1.98%	0.075%
81	7.822	7.808	7.836	HH	8456	128635	0.95%	0.036%
82	7.865	7.836	7.884	HH	22371	332710	2.47%	0.094%
83	7.898	7.884	7.920	HH	9211	165682	1.23%	0.047%
84	7.945	7.920	7.965	HH	8420	182836	1.36%	0.051%
85	7.983	7.965	7.991	HH	9839	125959	0.93%	0.035%
86	8.010	7.991	8.049	HH	57157	706415	5.24%	0.199%
87	8.066	8.049	8.089	HH	7417	159989	1.19%	0.045%
88	8.116	8.089	8.125	HH	7484	153380	1.14%	0.043%
89	8.132	8.125	8.146	HH	7647	87203	0.65%	0.025%

90	8.184	8.146	8.214	HH	12288	355364	2.64%	0.100%
91	8.222	8.214	8.285	HH	8229	264345	1.96%	0.074%
92	8.327	8.285	8.346	HH	8263	251206	1.86%	0.071%
93	8.360	8.346	8.375	HH	9639	139309	1.03%	0.039%
94	8.384	8.375	8.403	HH	6934	105706	0.78%	0.030%
95	8.420	8.403	8.426	HH	6913	90818	0.67%	0.026%
96	8.458	8.426	8.479	HH	15226	335287	2.49%	0.094%
97	8.490	8.479	8.508	HH	10246	142534	1.06%	0.040%
98	8.533	8.508	8.556	HH	11286	234758	1.74%	0.066%
99	8.577	8.556	8.597	HH	12563	218549	1.62%	0.062%
100	8.613	8.597	8.623	HH	13224	167843	1.24%	0.047%
101	8.634	8.623	8.651	HH	14230	198544	1.47%	0.056%
102	8.660	8.651	8.680	HH	8929	132575	0.98%	0.037%
103	8.706	8.680	8.760	HH	27033	613686	4.55%	0.173%
104	8.777	8.760	8.788	HH	8757	134470	1.00%	0.038%
105	8.800	8.788	8.811	HH	8970	121192	0.90%	0.034%
106	8.830	8.811	8.845	HH	29329	366048	2.71%	0.103%
107	8.858	8.845	8.866	HH	20977	224990	1.67%	0.063%
108	8.881	8.866	8.903	HH	47437	572351	4.24%	0.161%
109	8.930	8.903	8.957	HH	10912	292375	2.17%	0.082%
110	8.992	8.957	9.006	HH	16669	382861	2.84%	0.108%
111	9.018	9.006	9.046	HH	16874	303221	2.25%	0.085%
112	9.068	9.046	9.091	HH	14925	303537	2.25%	0.085%
113	9.107	9.091	9.136	HH	13257	282231	2.09%	0.079%
114	9.151	9.136	9.156	HH	8961	101516	0.75%	0.029%
115	9.169	9.156	9.201	HH	9590	236090	1.75%	0.066%
116	9.209	9.201	9.221	HH	7557	88828	0.66%	0.025%
117	9.260	9.221	9.278	HH	12918	334972	2.48%	0.094%
118	9.312	9.278	9.333	HH	89757	1115415	8.27%	0.314%
119	9.348	9.333	9.357	HH	17212	207615	1.54%	0.058%
120	9.364	9.357	9.387	HH	15453	231919	1.72%	0.065%
121	9.416	9.387	9.442	HH	28927	535417	3.97%	0.151%
122	9.466	9.442	9.482	HH	13136	263113	1.95%	0.074%
123	9.506	9.482	9.524	HH	10619	243467	1.81%	0.069%
124	9.548	9.524	9.564	HH	21034	384765	2.85%	0.108%
125	9.582	9.564	9.606	HH	48996	631779	4.69%	0.178%
126	9.618	9.606	9.631	HH	12012	167756	1.24%	0.047%
127	9.667	9.631	9.678	HH	13516	340617	2.53%	0.096%
128	9.698	9.678	9.731	HH	36262	668802	4.96%	0.188%
129	9.756	9.731	9.773	HH	20502	366539	2.72%	0.103%
130	9.785	9.773	9.805	HH	12157	213227	1.58%	0.060%
131	9.814	9.805	9.829	HH	10247	140410	1.04%	0.040%
132	9.872	9.829	9.888	HH	19782	444472	3.30%	0.125%
133	9.903	9.888	9.918	HH	18152	246879	1.83%	0.070%
134	9.928	9.918	9.943	HH	11023	162061	1.20%	0.046%
135	9.956	9.943	9.968	HH	11438	163110	1.21%	0.046%
136	10.007	9.968	10.026	HH	20698	508684	3.77%	0.143%
137	10.063	10.026	10.072	HH	19369	419123	3.11%	0.118%
138	10.092	10.072	10.111	HH	80365	975873	7.24%	0.275%
139	10.115	10.111	10.135	HH	19052	238655	1.77%	0.067%
140	10.172	10.135	10.194	HH	23081	648097	4.81%	0.182%
141	10.209	10.194	10.223	HH	18908	293946	2.18%	0.083%

142	10.244	10.223	10.278	HH	29772	666398	4.94%	0.188%
143	10.303	10.278	10.337	HH	22647	573874	4.26%	0.162%
144	10.361	10.337	10.387	HH	107719	1298377	9.63%	0.366%
145	10.411	10.387	10.438	HH	35736	702833	5.21%	0.198%
146	10.471	10.438	10.491	HH	39687	751242	5.57%	0.211%
147	10.510	10.491	10.528	HH	38856	587716	4.36%	0.165%
148	10.532	10.528	10.553	HH	18749	243407	1.81%	0.069%
149	10.575	10.553	10.598	HH	19338	440494	3.27%	0.124%
150	10.601	10.598	10.625	HH	15314	220720	1.64%	0.062%
151	10.671	10.625	10.700	HH	16482	646584	4.80%	0.182%
152	10.704	10.700	10.726	HH	13394	200941	1.49%	0.057%
153	10.733	10.726	10.737	HH	12999	91143	0.68%	0.026%
154	10.762	10.737	10.784	HH	14348	383595	2.84%	0.108%
155	10.829	10.784	10.842	HH	23078	615210	4.56%	0.173%
156	10.860	10.842	10.894	HH	31540	690470	5.12%	0.194%
157	10.906	10.894	10.919	HH	18896	261511	1.94%	0.074%
158	10.937	10.919	10.951	HH	25801	420459	3.12%	0.118%
159	10.967	10.951	10.990	HH	32695	587036	4.35%	0.165%
160	11.009	10.990	11.040	HH	30226	627161	4.65%	0.177%
161	11.085	11.040	11.103	HH	27587	748230	5.55%	0.211%
162	11.110	11.103	11.119	HH	21196	205060	1.52%	0.058%
163	11.140	11.119	11.174	HH	47640	931840	6.91%	0.262%
164	11.205	11.174	11.231	HH	44420	929181	6.89%	0.262%
165	11.253	11.231	11.261	HH	31533	474043	3.52%	0.133%
166	11.281	11.261	11.311	HH	65827	1368714	10.15%	0.385%
167	11.320	11.311	11.343	HH	27491	444521	3.30%	0.125%
168	11.385	11.343	11.403	HH	27432	790774	5.86%	0.223%
169	11.417	11.403	11.440	HH	21313	442206	3.28%	0.124%
170	11.460	11.440	11.468	HH	27028	390260	2.89%	0.110%
171	11.497	11.468	11.539	HH	675785	7656888	56.78%	2.156%
172	11.567	11.539	11.586	HH	183500	2252151	16.70%	0.634%
173	11.592	11.586	11.638	HH	33375	762451	5.65%	0.215%
174	11.657	11.638	11.683	HH	22933	568664	4.22%	0.160%
175	11.700	11.683	11.717	HH	21236	419570	3.11%	0.118%
176	11.734	11.717	11.749	HH	28771	463013	3.43%	0.130%
177	11.769	11.749	11.817	HH	65530	1351930	10.03%	0.381%
178	11.845	11.817	11.861	HH	24519	599133	4.44%	0.169%
179	11.903	11.861	11.936	HH	45533	1314577	9.75%	0.370%
180	11.957	11.936	11.961	HH	24857	345692	2.56%	0.097%
181	11.996	11.961	12.006	HH	44250	930205	6.90%	0.262%
182	12.014	12.006	12.050	HH	43181	817096	6.06%	0.230%
183	12.076	12.050	12.111	HH	30380	934333	6.93%	0.263%
184	12.138	12.111	12.156	HH	32379	737325	5.47%	0.208%
185	12.174	12.156	12.200	HH	28281	689777	5.12%	0.194%
186	12.216	12.200	12.225	HH	26514	386486	2.87%	0.109%
187	12.243	12.225	12.259	HH	32026	576275	4.27%	0.162%
188	12.287	12.259	12.302	HH	90733	1383037	10.26%	0.389%
189	12.318	12.302	12.348	HH	118961	1711197	12.69%	0.482%
190	12.355	12.348	12.364	HH	27017	249470	1.85%	0.070%
191	12.384	12.364	12.392	HH	65332	813508	6.03%	0.229%
192	12.405	12.392	12.421	HH	100517	1229704	9.12%	0.346%
193	12.436	12.421	12.449	HH	67096	894091	6.63%	0.252%
194	12.466	12.449	12.489	HH	88424	1339348	9.93%	0.377%

195	12.502	12.489	12.519	HH	29665	499232	3.70%	0.141%
196	12.569	12.519	12.624	HH	50449	2280153	16.91%	0.642%
197	12.645	12.624	12.668	HH	65254	1199456	8.90%	0.338%
198	12.676	12.668	12.723	HH	36950	1060387	7.86%	0.299%
199	12.750	12.723	12.773	HH	77228	1375500	10.20%	0.387%
200	12.811	12.773	12.830	HH	70940	1554977	11.53%	0.438%
201	12.841	12.830	12.862	HH	40149	722121	5.36%	0.203%
202	12.878	12.862	12.887	HH	41985	584812	4.34%	0.165%
203	12.897	12.887	12.925	HH	42436	890327	6.60%	0.251%
204	12.946	12.925	12.965	HH	65775	1155770	8.57%	0.325%
205	12.984	12.965	13.015	HH	54639	1315412	9.76%	0.370%
206	13.026	13.015	13.038	HH	39075	522931	3.88%	0.147%
207	13.063	13.038	13.114	HH	68735	2297224	17.04%	0.647%
208	13.167	13.114	13.199	HH	341042	5860926	43.46%	1.650%
209	13.208	13.199	13.229	HH	56804	945900	7.01%	0.266%
210	13.249	13.229	13.278	HH	65295	1521077	11.28%	0.428%
211	13.313	13.278	13.341	HH	802410	10203616	75.67%	2.873%
212	13.365	13.341	13.377	HH	46210	872274	6.47%	0.246%
213	13.396	13.377	13.429	HH	45596	1309875	9.71%	0.369%
214	13.450	13.429	13.466	HH	52228	985371	7.31%	0.277%
215	13.491	13.466	13.520	HH	65202	1696253	12.58%	0.478%
216	13.526	13.520	13.544	HH	44599	597717	4.43%	0.168%
217	13.563	13.544	13.578	HH	48559	851024	6.31%	0.240%
218	13.612	13.578	13.644	HH	770762	13484301	100.00%	3.796%
219	13.655	13.644	13.671	HH	109727	1379066	10.23%	0.388%
220	13.686	13.671	13.716	HH	105710	1845393	13.69%	0.520%
221	13.722	13.716	13.751	HH	42958	863646	6.40%	0.243%
222	13.771	13.751	13.785	HH	63726	1060492	7.86%	0.299%
223	13.803	13.785	13.831	HH	74992	1615870	11.98%	0.455%
224	13.862	13.831	13.884	HH	77975	1819187	13.49%	0.512%
225	13.898	13.884	13.916	HH	67902	1126592	8.35%	0.317%
226	13.933	13.916	13.956	HH	54353	1153883	8.56%	0.325%
227	13.993	13.956	14.027	HH	78824	2447767	18.15%	0.689%
228	14.054	14.027	14.083	HH	93907	2271528	16.85%	0.639%
229	14.094	14.083	14.103	HH	48357	570146	4.23%	0.161%
230	14.117	14.103	14.131	HH	50680	821637	6.09%	0.231%
231	14.184	14.131	14.224	HH	144356	4109237	30.47%	1.157%
232	14.246	14.224	14.264	HH	60255	1333268	9.89%	0.375%
233	14.298	14.264	14.319	HH	831650	10818884	80.23%	3.046%
234	14.336	14.319	14.358	HH	89213	1666799	12.36%	0.469%
235	14.376	14.358	14.386	HH	67578	1072980	7.96%	0.302%
236	14.395	14.386	14.409	HH	66429	870137	6.45%	0.245%
237	14.421	14.409	14.429	HH	66488	759771	5.63%	0.214%
238	14.439	14.429	14.450	HH	69715	865434	6.42%	0.244%
239	14.467	14.450	14.488	HH	109623	2009873	14.91%	0.566%
240	14.503	14.488	14.536	HH	88903	1978727	14.67%	0.557%
241	14.573	14.536	14.592	HH	75572	2070424	15.35%	0.583%
242	14.618	14.592	14.648	HH	132952	2969176	22.02%	0.836%
243	14.653	14.648	14.674	HH	65203	975224	7.23%	0.275%
244	14.682	14.674	14.701	HH	62401	959040	7.11%	0.270%
245	14.707	14.701	14.717	HH	59432	582135	4.32%	0.164%
246	14.730	14.717	14.747	HH	60496	1075335	7.97%	0.303%

247	14.772	14.747	14.812	HH	65922	2408503	17.86%	0.678%
248	14.827	14.812	14.837	HH	63844	923055	6.85%	0.260%
249	14.879	14.837	14.899	HH	102998	2932170	21.75%	0.825%
250	14.919	14.899	14.942	HH	105235	2114487	15.68%	0.595%
251	14.971	14.942	14.994	HH	79867	2265776	16.80%	0.638%
252	15.019	14.994	15.054	HH	79170	2551204	18.92%	0.718%
253	15.096	15.054	15.133	HH	111249	3912198	29.01%	1.101%
254	15.158	15.133	15.183	HH	143162	3098982	22.98%	0.872%
255	15.200	15.183	15.206	HH	97649	1187711	8.81%	0.334%
256	15.219	15.206	15.258	HH	116224	2773788	20.57%	0.781%
257	15.289	15.258	15.321	HH	153277	3856207	28.60%	1.086%
258	15.343	15.321	15.375	HH	90073	2548280	18.90%	0.717%
259	15.388	15.375	15.401	HH	72617	1102011	8.17%	0.310%
260	15.423	15.401	15.441	HH	90460	1892343	14.03%	0.533%
261	15.473	15.441	15.493	HH	389662	6244847	46.31%	1.758%
262	15.516	15.493	15.539	HH	376283	5454389	40.45%	1.536%
263	15.554	15.539	15.588	HH	82931	2311964	17.15%	0.651%
264	15.635	15.588	15.669	HH	137153	4568207	33.88%	1.286%
265	15.704	15.669	15.728	HH	106596	3167431	23.49%	0.892%
266	15.731	15.728	15.736	HH	78603	376519	2.79%	0.106%
267	15.765	15.736	15.791	HH	109325	2984331	22.13%	0.840%
268	15.823	15.791	15.850	HH	106113	3360413	24.92%	0.946%
269	15.871	15.850	15.893	HH	118496	2610611	19.36%	0.735%
270	15.910	15.893	15.923	HH	98672	1711679	12.69%	0.482%
271	15.930	15.923	15.936	HH	93013	693906	5.15%	0.195%
272	15.951	15.936	15.971	HH	95805	1925360	14.28%	0.542%
273	16.014	15.971	16.021	HH	99664	2741044	20.33%	0.772%
274	16.036	16.021	16.076	HH	111905	3336901	24.75%	0.939%
275	16.095	16.076	16.114	HH	104611	2303164	17.08%	0.648%
276	16.138	16.114	16.160	HH	150683	3185938	23.63%	0.897%
277	16.177	16.160	16.211	HH	120640	3260832	24.18%	0.918%
278	16.226	16.211	16.251	HH	109414	2502878	18.56%	0.705%
279	16.254	16.251	16.259	HH	100357	454529	3.37%	0.128%
280	16.294	16.259	16.338	HH	129820	5404629	40.08%	1.522%
281	16.374	16.338	16.407	HH	116297	4339539	32.18%	1.222%
282	16.415	16.407	16.423	HH	99980	969033	7.19%	0.273%
283	16.454	16.423	16.475	HH	106888	3168487	23.50%	0.892%
284	16.495	16.475	16.529	HH	116578	3472180	25.75%	0.978%
285	16.559	16.529	16.589	HH	114288	3791671	28.12%	1.067%
286	16.607	16.589	16.622	HH	98816	1959131	14.53%	0.552%
287	16.633	16.622	16.651	HH	99714	1709819	12.68%	0.481%
288	16.686	16.651	16.707	HH	105048	3390367	25.14%	0.954%
289	16.731	16.707	16.747	HH	113405	2582125	19.15%	0.727%
290	16.753	16.747	16.785	HH	112887	2475575	18.36%	0.697%
291	16.810	16.785	16.855	HH	125736	4792293	35.54%	1.349%
292	16.877	16.855	16.900	HH	119952	3101634	23.00%	0.873%
293	16.907	16.900	16.911	HH	113536	782666	5.80%	0.220%
294	16.930	16.911	16.948	HH	126759	2663119	19.75%	0.750%
295	16.958	16.948	16.972	HH	120441	1713291	12.71%	0.482%
296	17.032	16.972	17.048	HH	398512	9458237	70.14%	2.663%
297	17.057	17.048	17.099	HH	253862	4862278	36.06%	1.369%
298	17.117	17.099	17.122	HH	115897	1573401	11.67%	0.443%
299	17.127	17.122	17.133	HH	119263	764821	5.67%	0.215%

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300	17.156	17.133	17.176	HH	184986	3819950	28.33%	1.075%
301	17.191	17.176	17.206	HH	128959	2204600	16.35%	0.621%
302	17.214	17.206	17.236	HH	126607	2228025	16.52%	0.627%
303	17.246	17.236	17.259	HH	125461	1716743	12.73%	0.483%
304	17.278	17.259	17.295	HH	132750	2786271	20.66%	0.784%
305	17.312	17.295	17.317	HH	139852	1867578	13.85%	0.526%
306	17.352	17.317	17.377	HH	314424	7136803	52.93%	2.009%
307	17.411	17.377	17.437	HH	394269	7858735	58.28%	2.212%

Sum of corrected areas: 355205066

FE012325.M Mon Feb 03 02:16:46 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052176.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 14:39
Operator : YP\AJ
Sample : Q1241-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 03 00:10:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_E
ClientSampleId :
JPP-5.4-013025

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.245	2332047	23.414 ug/mlm
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052176.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 14:39
Operator : YP\AJ
Sample : Q1241-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

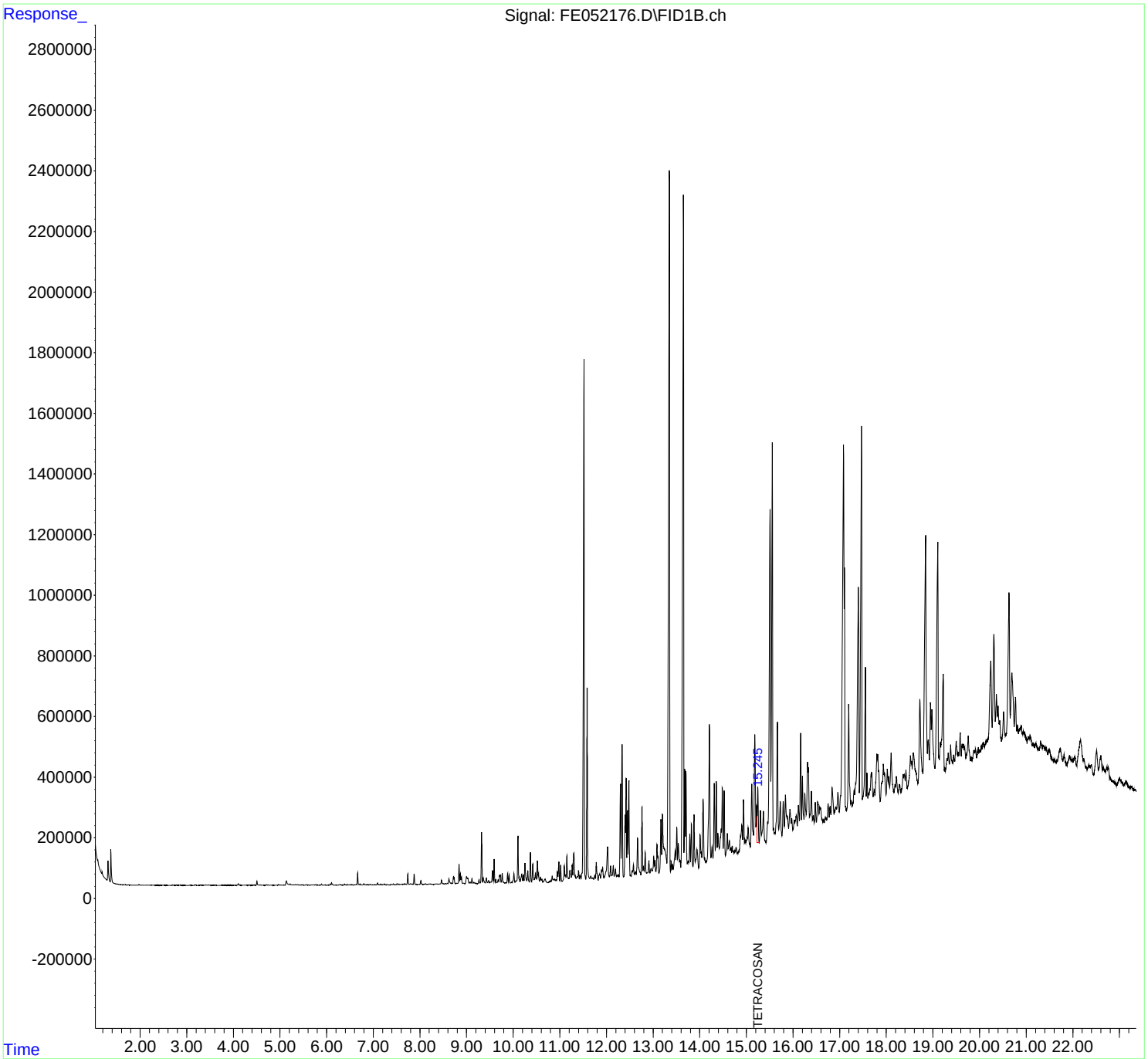
Instrument :
FID_E
ClientSampleId :
JPP-5.4-013025

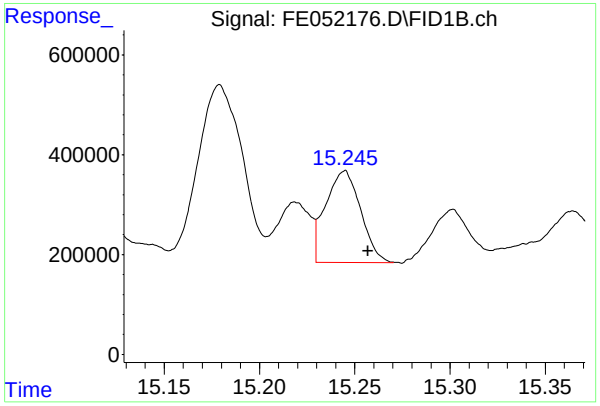
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Feb 03 00:10:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.245 min
Delta R.T.: -0.012 mi
Response: 2332047
Conc: 23.41 ug/m

Instrument :
FID_E
ClientSampleId :
JPP-5.4-013025

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rteres

Area Percent Report

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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052176.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 14:39
Sample : Q1241-13
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.881	4.852	4.893	BH	142	1549	0.00%	0.000%
2	4.897	4.893	4.901	HH	184	639	0.00%	0.000%
3	4.928	4.901	4.951	HH	330	5511	0.01%	0.001%
4	4.971	4.951	4.997	PH	3235	36174	0.09%	0.005%
5	5.022	4.997	5.040	HH	1094	18267	0.04%	0.002%
6	5.054	5.040	5.065	HH	683	7441	0.02%	0.001%
7	5.084	5.065	5.108	HH	870	14716	0.04%	0.002%
8	5.134	5.108	5.189	HH	14151	304862	0.73%	0.038%
9	5.196	5.189	5.203	HH	3084	24876	0.06%	0.003%
10	5.214	5.203	5.237	HH	3407	54899	0.13%	0.007%
11	5.246	5.237	5.269	HH	2099	33312	0.08%	0.004%
12	5.285	5.269	5.306	HH	2119	38314	0.09%	0.005%
13	5.310	5.306	5.318	HH	1573	10904	0.03%	0.001%
14	5.336	5.318	5.370	HH	2895	61056	0.15%	0.008%
15	5.382	5.370	5.408	HH	1903	33094	0.08%	0.004%
16	5.428	5.408	5.448	HH	1323	24319	0.06%	0.003%
17	5.466	5.448	5.486	HH	1811	28786	0.07%	0.004%
18	5.491	5.486	5.511	HH	1111	13874	0.03%	0.002%
19	5.518	5.511	5.538	HH	770	11212	0.03%	0.001%
20	5.555	5.538	5.579	HH	1697	30365	0.07%	0.004%
21	5.583	5.579	5.597	HH	1225	11247	0.03%	0.001%
22	5.612	5.597	5.625	HH	1383	18070	0.04%	0.002%
23	5.632	5.625	5.647	HH	1091	11408	0.03%	0.001%
24	5.669	5.647	5.695	HH	1498	35340	0.08%	0.004%
25	5.708	5.695	5.718	HH	1575	20067	0.05%	0.003%
26	5.724	5.718	5.741	HH	1548	16976	0.04%	0.002%
27	5.751	5.741	5.762	HH	1644	18018	0.04%	0.002%
28	5.768	5.762	5.797	HH	1754	23666	0.06%	0.003%
29	5.808	5.797	5.829	HH	1014	14659	0.03%	0.002%
30	5.844	5.829	5.861	HH	900	14427	0.03%	0.002%
31	5.890	5.861	5.922	HH	4610	63420	0.15%	0.008%
32	5.924	5.922	5.935	HH	747	5287	0.01%	0.001%
33	5.958	5.935	5.996	HH	1290	31205	0.07%	0.004%
34	6.001	5.996	6.017	HH	560	6543	0.02%	0.001%
35	6.036	6.017	6.059	HH	1272	17369	0.04%	0.002%
36	6.080	6.059	6.092	HH	4455	46784	0.11%	0.006%

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37	6.106	6.092	6.146	HH	8592	122761	0.29%	0.015%
38	6.160	6.146	6.174	HH	798	11491		
39	6.196	6.174	6.218	HH	1070	20564		
40	6.223	6.218	6.247	HH	734	10483		
41	6.272	6.247	6.280	HH	2343	29013		
42	6.286	6.280	6.302	HH	2262	24248		
43	6.310	6.302	6.342	HH	1632	30082	0.07%	0.004%
44	6.387	6.342	6.422	HH	3254	84517	0.20%	0.011%
45	6.438	6.422	6.457	HH	2584	35981	0.09%	0.005%
46	6.482	6.457	6.487	HH	1504	23815	0.06%	0.003%
47	6.506	6.487	6.517	HH	1584	26532	0.06%	0.003%
48	6.527	6.517	6.542	HH	1726	23113	0.06%	0.003%
49	6.559	6.542	6.586	HH	2288	39972	0.10%	0.005%
50	6.637	6.586	6.644	HH	2812	72958	0.17%	0.009%
51	6.665	6.644	6.700	HH	41147	427949	1.02%	0.054%
52	6.713	6.700	6.731	HH	4056	48117	0.11%	0.006%
53	6.743	6.731	6.759	HH	1952	27380	0.07%	0.003%
54	6.769	6.759	6.776	HH	1589	14375	0.03%	0.002%
55	6.797	6.776	6.822	HH	5314	86683	0.21%	0.011%
56	6.841	6.822	6.867	HH	2322	49602	0.12%	0.006%
57	6.882	6.867	6.902	HH	2443	40876	0.10%	0.005%
58	6.934	6.902	6.965	HH	3820	82940	0.20%	0.010%
59	6.979	6.965	6.997	HH	1856	30797	0.07%	0.004%
60	7.022	6.997	7.033	HH	2053	34807	0.08%	0.004%
61	7.045	7.033	7.068	HH	1998	36369	0.09%	0.005%
62	7.090	7.068	7.142	HH	7889	139797	0.33%	0.018%
63	7.160	7.142	7.196	HH	4389	74711	0.18%	0.009%
64	7.213	7.196	7.224	HH	2345	33565	0.08%	0.004%
65	7.241	7.224	7.263	HH	4071	62413	0.15%	0.008%
66	7.305	7.263	7.339	HH	2998	88928	0.21%	0.011%
67	7.387	7.339	7.407	HH	3363	86655	0.21%	0.011%
68	7.428	7.407	7.468	HH	4164	94034	0.22%	0.012%
69	7.488	7.468	7.495	HH	2183	32386	0.08%	0.004%
70	7.512	7.495	7.532	HH	4993	70738	0.17%	0.009%
71	7.549	7.532	7.568	HH	4660	66058	0.16%	0.008%
72	7.586	7.568	7.599	HH	3105	54350	0.13%	0.007%
73	7.612	7.599	7.626	HH	4006	55144	0.13%	0.007%
74	7.628	7.626	7.637	HH	3329	21034	0.05%	0.003%
75	7.662	7.637	7.686	HH	4070	108897	0.26%	0.014%
76	7.697	7.686	7.711	HH	4228	54047	0.13%	0.007%
77	7.741	7.711	7.769	HH	38361	441158	1.05%	0.055%
78	7.780	7.769	7.785	HH	3697	34230	0.08%	0.004%
79	7.799	7.785	7.822	HH	5562	96704	0.23%	0.012%
80	7.833	7.822	7.855	HH	4167	66195	0.16%	0.008%
81	7.877	7.855	7.905	HH	37789	413923	0.99%	0.052%
82	7.920	7.905	7.940	HH	3762	66596	0.16%	0.008%
83	7.962	7.940	7.979	HH	3075	68287	0.16%	0.009%
84	7.994	7.979	7.999	HH	3449	36856	0.09%	0.005%
85	8.021	7.999	8.067	HH	15576	253826	0.61%	0.032%
86	8.080	8.067	8.089	HH	3624	45354	0.11%	0.006%
87	8.104	8.089	8.117	HH	4145	66596	0.16%	0.008%
88	8.126	8.117	8.159	HH	4106	86845	0.21%	0.011%
89	8.194	8.159	8.201	HH	4411	92427	0.22%	0.012%

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90	8.213	8.201	8.226	HH	4851	65740	0.16%	0.008%
91	8.233	8.226	8.249	HH	4412	56217		
92	8.264	8.249	8.293	HH	3795	86159		
93	8.338	8.293	8.352	HH	4569	130536		
94	8.369	8.352	8.387	HH	4527	86713		
95	8.393	8.387	8.404	HH	3757	37240		
96	8.426	8.404	8.437	HH	4643	80608	0.19%	0.010%
97	8.465	8.437	8.492	HH	17438	291192	0.70%	0.037%
98	8.500	8.492	8.521	HH	5867	87263	0.21%	0.011%
99	8.544	8.521	8.562	HH	6440	129360	0.31%	0.016%
100	8.589	8.562	8.605	HH	7092	144847	0.35%	0.018%
101	8.624	8.605	8.662	HH	21726	406950	0.97%	0.051%
102	8.670	8.662	8.688	HH	7452	100830	0.24%	0.013%
103	8.720	8.688	8.729	HH	29011	368903	0.88%	0.046%
104	8.735	8.729	8.772	HH	25369	316838	0.76%	0.040%
105	8.791	8.772	8.807	HH	7070	131586	0.31%	0.017%
106	8.841	8.807	8.856	HH	69714	797429	1.90%	0.100%
107	8.869	8.856	8.881	HH	39123	401462	0.96%	0.050%
108	8.891	8.881	8.920	HH	28322	361537	0.86%	0.045%
109	8.938	8.920	8.969	HH	7170	187563	0.45%	0.024%
110	9.001	8.969	9.022	HH	29262	605237	1.44%	0.076%
111	9.030	9.022	9.059	HH	23303	318428	0.76%	0.040%
112	9.078	9.059	9.099	HH	11371	216538	0.52%	0.027%
113	9.117	9.099	9.142	HH	21796	314366	0.75%	0.039%
114	9.159	9.142	9.174	HH	10376	162737	0.39%	0.020%
115	9.185	9.174	9.211	HH	7532	150194	0.36%	0.019%
116	9.223	9.211	9.236	HH	6095	85508	0.20%	0.011%
117	9.268	9.236	9.291	HH	17932	335285	0.80%	0.042%
118	9.324	9.291	9.345	HH	175462	1850761	4.42%	0.232%
119	9.358	9.345	9.403	HH	24784	508633	1.21%	0.064%
120	9.426	9.403	9.452	HH	24264	429964	1.03%	0.054%
121	9.474	9.452	9.493	HH	16169	296898	0.71%	0.037%
122	9.507	9.493	9.517	HH	11170	141651	0.34%	0.018%
123	9.526	9.517	9.535	HH	11111	110226	0.26%	0.014%
124	9.560	9.535	9.576	HH	49739	718341	1.71%	0.090%
125	9.593	9.576	9.614	HH	86388	941108	2.25%	0.118%
126	9.627	9.614	9.654	HH	18974	302981	0.72%	0.038%
127	9.679	9.654	9.691	HH	18483	296917	0.71%	0.037%
128	9.708	9.691	9.716	HH	33312	365837	0.87%	0.046%
129	9.725	9.716	9.743	HH	35059	385506	0.92%	0.048%
130	9.766	9.743	9.787	HH	40632	554861	1.32%	0.070%
131	9.794	9.787	9.817	HH	10696	168112	0.40%	0.021%
132	9.839	9.817	9.849	HH	8301	150530	0.36%	0.019%
133	9.882	9.849	9.899	HH	39849	564622	1.35%	0.071%
134	9.914	9.899	9.950	HH	35301	493727	1.18%	0.062%
135	9.970	9.950	9.981	HH	10724	171496	0.41%	0.022%
136	10.018	9.981	10.039	HH	39408	711426	1.70%	0.089%
137	10.059	10.039	10.064	HH	13972	187970	0.45%	0.024%
138	10.104	10.064	10.144	HH	163429	2213155	5.28%	0.278%
139	10.184	10.144	10.207	HH	37336	874499	2.09%	0.110%
140	10.222	10.207	10.235	HH	35777	424251	1.01%	0.053%
141	10.254	10.235	10.289	HH	73940	1225762	2.93%	0.154%

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142	10.313	10.289	10.349	HH	47567	878944	2.10%	0.110%
143	10.371	10.349	10.397	HH	108278	1267786	3	
144	10.421	10.397	10.446	HH	71333	1060280	2	
145	10.480	10.446	10.501	HH	41211	871469	2	
146	10.521	10.501	10.536	HH	80913	1055951	2	
147	10.545	10.536	10.567	HH	40661	499808	1	
148	10.585	10.567	10.602	HH	26260	407615	0.97%	0.051%
149	10.614	10.602	10.636	HH	20764	324607	0.77%	0.041%
150	10.653	10.636	10.661	HH	14495	189612	0.45%	0.024%
151	10.681	10.661	10.751	HH	20504	735361	1.76%	0.092%
152	10.782	10.751	10.791	HH	12419	264229	0.63%	0.033%
153	10.804	10.791	10.816	HH	14209	196268	0.47%	0.025%
154	10.838	10.816	10.856	HH	30927	493590	1.18%	0.062%
155	10.871	10.856	10.882	HH	20204	291541	0.70%	0.037%
156	10.892	10.882	10.906	HH	20696	260906	0.62%	0.033%
157	10.917	10.906	10.928	HH	19093	223998	0.53%	0.028%
158	10.947	10.928	10.959	HH	45175	614143	1.47%	0.077%
159	10.979	10.959	11.001	HH	77647	1148984	2.74%	0.144%
160	11.019	11.001	11.054	HH	66602	983420	2.35%	0.123%
161	11.095	11.054	11.112	HH	63971	1163139	2.78%	0.146%
162	11.121	11.112	11.133	HH	34465	400087	0.96%	0.050%
163	11.153	11.133	11.184	HH	98444	1499672	3.58%	0.188%
164	11.191	11.184	11.199	HH	23405	203386	0.49%	0.026%
165	11.216	11.199	11.244	HH	49661	958722	2.29%	0.120%
166	11.264	11.244	11.277	HH	67418	936573	2.24%	0.118%
167	11.302	11.277	11.324	HH	106934	2078932	4.96%	0.261%
168	11.331	11.324	11.347	HH	34060	406688	0.97%	0.051%
169	11.374	11.347	11.383	HH	29060	552729	1.32%	0.069%
170	11.401	11.383	11.418	HH	48824	757477	1.81%	0.095%
171	11.434	11.418	11.457	HH	33481	630250	1.50%	0.079%
172	11.520	11.457	11.553	HH	1730918	22848016	54.54%	2.867%
173	11.585	11.553	11.641	HH	650677	7597852	18.14%	0.953%
174	11.664	11.641	11.695	HH	30436	815014	1.95%	0.102%
175	11.705	11.695	11.725	HH	25042	403735	0.96%	0.051%
176	11.746	11.725	11.762	HH	33313	577447	1.38%	0.072%
177	11.781	11.762	11.824	HH	75550	1534125	3.66%	0.192%
178	11.855	11.824	11.872	HH	36497	831525	1.98%	0.104%
179	11.892	11.872	11.902	HH	51217	731728	1.75%	0.092%
180	11.915	11.902	11.946	HH	61465	1124985	2.69%	0.141%
181	12.023	11.946	12.066	HH	127290	3639318	8.69%	0.457%
182	12.088	12.066	12.119	HH	63985	1356166	3.24%	0.170%
183	12.149	12.119	12.168	HH	64383	1274726	3.04%	0.160%
184	12.190	12.168	12.213	HH	52397	1060116	2.53%	0.133%
185	12.227	12.213	12.240	HH	32737	488838	1.17%	0.061%
186	12.253	12.240	12.269	HH	35280	552775	1.32%	0.069%
187	12.302	12.269	12.317	HH	334460	4363902	10.42%	0.548%
188	12.335	12.317	12.364	HH	464555	5228287	12.48%	0.656%
189	12.400	12.364	12.409	HH	231780	2861832	6.83%	0.359%
190	12.422	12.409	12.436	HH	353135	3770915	9.00%	0.473%
191	12.451	12.436	12.465	HH	247322	2939377	7.02%	0.369%
192	12.482	12.465	12.505	HH	345670	4258571	10.17%	0.534%
193	12.511	12.505	12.525	HH	33741	382160	0.91%	0.048%
194	12.550	12.525	12.560	HH	48179	836134	2.00%	0.105%

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195	12.576	12.560	12.600	HH	69092	1242556	2.97%	0.156%
196	12.625	12.600	12.640	HH	44011	969571	2	
197	12.665	12.640	12.714	HH	154975	3401963	8	
198	12.721	12.714	12.737	HH	43711	538216	1	
199	12.762	12.737	12.783	HH	258635	3347990	7	
200	12.796	12.783	12.810	HH	62064	889792	2	
201	12.829	12.810	12.857	HH	109487	1895575	4.52%	0.238%
202	12.861	12.857	12.869	HH	41100	304849	0.73%	0.038%
203	12.877	12.869	12.882	HH	41302	307331	0.73%	0.039%
204	12.910	12.882	12.930	HH	81144	1596651	3.81%	0.200%
205	12.958	12.930	12.975	HH	56241	1332619	3.18%	0.167%
206	13.012	12.975	13.026	HH	94830	2004542	4.79%	0.251%
207	13.037	13.026	13.060	HH	82137	1305908	3.12%	0.164%
208	13.084	13.060	13.097	HH	135223	2036359	4.86%	0.255%
209	13.103	13.097	13.125	HH	94688	1154302	2.76%	0.145%
210	13.166	13.125	13.182	HH	217771	3811242	9.10%	0.478%
211	13.201	13.182	13.293	HH	233009	8785325	20.97%	1.102%
212	13.348	13.293	13.371	HH	2343058	41433869	98.91%	5.198%
213	13.386	13.371	13.401	HH	79983	1138607	2.72%	0.143%
214	13.415	13.401	13.432	HH	69089	1144629	2.73%	0.144%
215	13.472	13.432	13.487	HH	115032	2854521	6.81%	0.358%
216	13.507	13.487	13.523	HH	192551	2921478	6.97%	0.367%
217	13.538	13.523	13.568	HH	138834	2827911	6.75%	0.355%
218	13.578	13.568	13.594	HH	83155	1168354	2.79%	0.147%
219	13.650	13.594	13.662	HH	2278960	38246935	91.30%	4.799%
220	13.677	13.662	13.690	HH	384694	4279741	10.22%	0.537%
221	13.704	13.690	13.733	HH	375798	5104768	12.19%	0.640%
222	13.756	13.733	13.766	HH	79809	1487184	3.55%	0.187%
223	13.785	13.766	13.801	HH	169462	2453828	5.86%	0.308%
224	13.820	13.801	13.855	HH	202741	3774187	9.01%	0.474%
225	13.878	13.855	13.904	HH	233004	3862190	9.22%	0.485%
226	13.939	13.904	13.977	HH	118209	3923529	9.37%	0.492%
227	14.007	13.977	14.045	HH	166905	4427409	10.57%	0.555%
228	14.072	14.045	14.097	HH	282674	5261727	12.56%	0.660%
229	14.105	14.097	14.123	HH	91236	1330559	3.18%	0.167%
230	14.137	14.123	14.145	HH	79934	1040410	2.48%	0.131%
231	14.206	14.145	14.242	HH	530414	12106560	28.90%	1.519%
232	14.262	14.242	14.282	HH	126646	2616847	6.25%	0.328%
233	14.310	14.282	14.332	HH	337089	5942184	14.18%	0.746%
234	14.354	14.332	14.374	HH	343601	5284489	12.61%	0.663%
235	14.389	14.374	14.419	HH	171700	3815441	9.11%	0.479%
236	14.458	14.419	14.465	HH	186660	4264168	10.18%	0.535%
237	14.483	14.465	14.501	HH	322068	4952110	11.82%	0.621%
238	14.522	14.501	14.551	HH	312011	5523009	13.18%	0.693%
239	14.590	14.551	14.609	HH	171931	4493992	10.73%	0.564%
240	14.634	14.609	14.656	HH	148037	3655425	8.73%	0.459%
241	14.670	14.656	14.682	HH	125272	1885075	4.50%	0.237%
242	14.698	14.682	14.715	HH	128087	2342449	5.59%	0.294%
243	14.720	14.715	14.735	HH	113630	1291898	3.08%	0.162%
244	14.753	14.735	14.764	HH	114882	1930354	4.61%	0.242%
245	14.779	14.764	14.800	HH	124921	2540532	6.06%	0.319%
246	14.820	14.800	14.824	HH	108619	1485560	3.55%	0.186%

Instrument :
FID_E
ClientSampleId :
JPP-5.4-013025

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

rteres

247	14.834	14.824	14.847	HH	112622	1574040	3.76%	0.197%
248	14.874	14.847	14.878	HH	161493	2573458	6	
249	14.902	14.878	14.918	HH	198709	4274990	10	
250	14.938	14.918	14.958	HH	282641	4921335	11	
251	14.968	14.958	14.984	HH	151321	2210926	5	
252	15.035	14.984	15.084	HH	190231	9185071	21	
253	15.114	15.084	15.153	HH	334269	8801627	21.01%	1.104%
254	15.179	15.153	15.204	HH	497756	10173163	24.28%	1.276%
255	15.219	15.204	15.230	HH	261837	3620436	8.64%	0.454%
256	15.245	15.230	15.275	HH	325142	6178502	14.75%	0.775%
257	15.301	15.275	15.322	HH	247643	5452205	13.01%	0.684%
258	15.364	15.322	15.416	HH	244277	10158446	24.25%	1.275%
259	15.455	15.416	15.463	HH	209952	4906235	11.71%	0.616%
260	15.505	15.463	15.525	HH	1236620	25479019	60.82%	3.197%
261	15.555	15.525	15.574	HH	1458358	22424915	53.53%	2.814%
262	15.580	15.574	15.600	HH	189414	2878135	6.87%	0.361%
263	15.608	15.600	15.616	HH	173374	1680607	4.01%	0.211%
264	15.664	15.616	15.692	HH	537845	12934215	30.88%	1.623%
265	15.726	15.692	15.763	HH	275595	8986647	21.45%	1.127%
266	15.789	15.763	15.814	HH	276511	6823172	16.29%	0.856%
267	15.836	15.814	15.872	HH	298608	8400816	20.05%	1.054%
268	15.878	15.872	15.904	HH	229111	4044993	9.66%	0.507%
269	15.934	15.904	15.959	HH	251091	7300822	17.43%	0.916%
270	15.974	15.959	15.995	HH	220235	4491920	10.72%	0.564%
271	16.025	15.995	16.044	HH	215997	5826603	13.91%	0.731%
272	16.071	16.044	16.089	HH	232137	5889597	14.06%	0.739%
273	16.115	16.089	16.137	HH	261993	6665548	15.91%	0.836%
274	16.163	16.137	16.182	HH	501913	9253276	22.09%	1.161%
275	16.200	16.182	16.234	HH	360709	8421003	20.10%	1.057%
276	16.252	16.234	16.283	HH	302539	7665473	18.30%	0.962%
277	16.311	16.283	16.321	HH	404196	7566298	18.06%	0.949%
278	16.328	16.321	16.352	HH	388516	5783774	13.81%	0.726%
279	16.393	16.352	16.415	HH	311001	9641844	23.02%	1.210%
280	16.436	16.415	16.452	HH	230441	4890523	11.67%	0.614%
281	16.476	16.452	16.502	HH	273922	6967094	16.63%	0.874%
282	16.527	16.502	16.559	HH	275804	8524268	20.35%	1.069%
283	16.573	16.559	16.582	HH	258774	3523843	8.41%	0.442%
284	16.588	16.582	16.642	HH	256570	8266779	19.73%	1.037%
285	16.653	16.642	16.672	HH	215989	3765159	8.99%	0.472%
286	16.692	16.672	16.697	HH	221627	3276060	7.82%	0.411%
287	16.701	16.697	16.704	HH	222481	1012407	2.42%	0.127%
288	16.710	16.704	16.719	HH	223760	1916465	4.57%	0.240%
289	16.752	16.719	16.775	HH	269498	8059315	19.24%	1.011%
290	16.795	16.775	16.813	HH	260704	5602524	13.37%	0.703%
291	16.840	16.813	16.880	HH	322408	11043731	26.36%	1.386%
292	16.914	16.880	16.918	HH	257006	5708381	13.63%	0.716%
293	16.922	16.918	16.937	HH	258147	2857649	6.82%	0.359%
294	16.961	16.937	16.995	HH	305880	9530021	22.75%	1.196%
295	17.083	16.995	17.096	HH	1452955	41891757	100.00%	5.256%
296	17.103	17.096	17.122	HH	1049496	10205841	24.36%	1.280%
297	17.128	17.122	17.144	HH	261270	3355828	8.01%	0.421%
298	17.194	17.144	17.239	HH	593316	19659774	46.93%	2.467%
299	17.247	17.239	17.264	HH	279638	4097997	9.78%	0.514%

Instrument :
FID_E
ClientSampleId :
JPP-5.4-013025

rteres

300	17.308	17.264	17.320	HH	312384	9705115	23.17%	1.218%
301	17.400	17.320	17.422	HH	983226	32523135	77	

Sum of corrected areas: 797(

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

FE012325.M Mon Feb 03 02:17:30 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052177.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 15:09
Operator : YP\AJ
Sample : Q1241-17
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-51.4-013025

Integration File: autoint1.e
Quant Time: Feb 03 00:10:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
9) S	TETRACOSANE-d50 (SURR...	15.238	875526	8.791 ug/ml
Target Compounds				

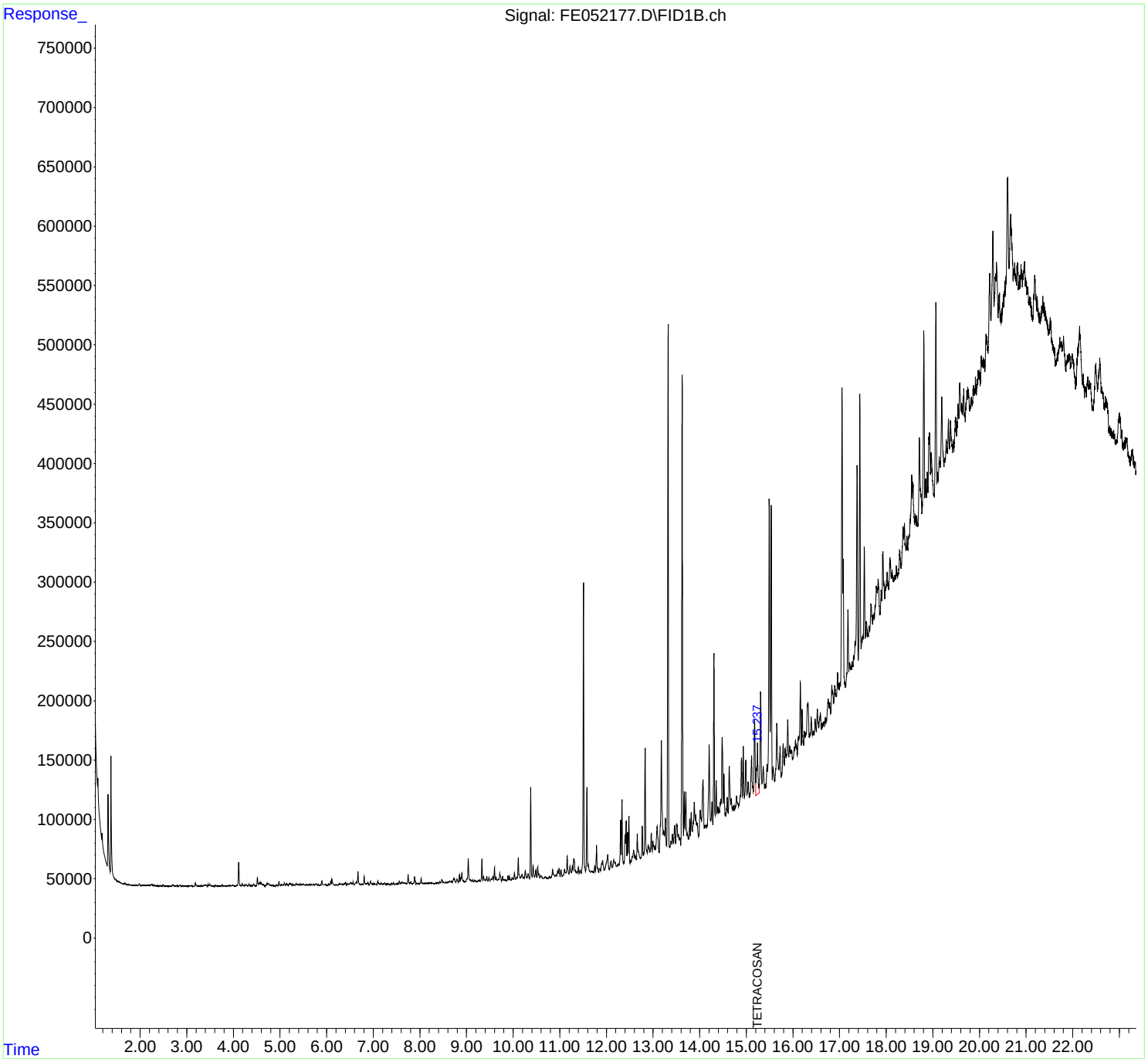
(f)=RT Delta > 1/2 Window (m)=manual int.

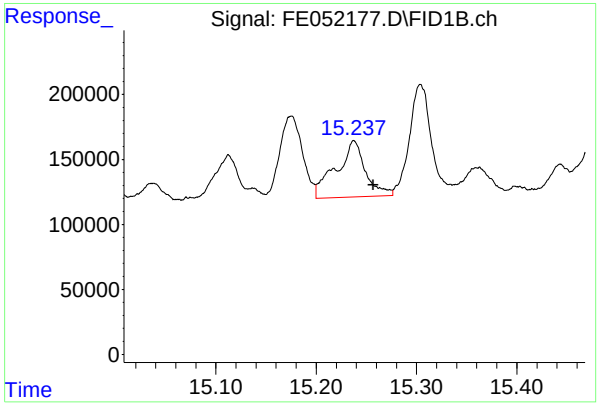
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052177.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 15:09
Operator : YP\AJ
Sample : Q1241-17
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
JPP-51.4-013025

Integration File: autoint1.e
Quant Time: Feb 03 00:10:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.:	15.238 min
Delta R.T.:	-0.019 mi
Response:	875526
Conc:	8.79 ug/m

Instrument :
FID_E
ClientSampleId :
JPP-51.4-013025

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052177.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 15:09
Sample : Q1241-17
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.872	4.851	4.879	BH	160	-760	-0.01%	-0.000%
2	4.886	4.879	4.894	PH	-122	-1875	-0.02%	-0.001%
3	4.932	4.894	4.948	PH	388	4328	0.04%	0.001%
4	4.978	4.948	5.001	HH	3649	38518	0.40%	0.012%
5	5.030	5.001	5.045	HH	1000	13819	0.14%	0.004%
6	5.059	5.045	5.078	HH	829	10935	0.11%	0.003%
7	5.095	5.078	5.116	HH	2442	27801	0.29%	0.008%
8	5.139	5.116	5.172	HH	1846	33933	0.35%	0.010%
9	5.203	5.172	5.213	HH	1801	25357	0.26%	0.008%
10	5.222	5.213	5.242	HH	1996	25388	0.26%	0.008%
11	5.255	5.242	5.273	HH	1570	18310	0.19%	0.005%
12	5.290	5.273	5.311	HH	1125	16963	0.18%	0.005%
13	5.315	5.311	5.327	HH	486	4136	0.04%	0.001%
14	5.345	5.327	5.358	HH	1765	19812	0.21%	0.006%
15	5.366	5.358	5.374	HH	1013	8260	0.09%	0.002%
16	5.391	5.374	5.410	HH	1238	19127	0.20%	0.006%
17	5.434	5.410	5.459	HH	1363	25234	0.26%	0.008%
18	5.472	5.459	5.487	HH	1230	16611	0.17%	0.005%
19	5.505	5.487	5.542	HH	1333	28125	0.29%	0.008%
20	5.565	5.542	5.574	HH	817	12121	0.13%	0.004%
21	5.585	5.574	5.590	HH	905	7797	0.08%	0.002%
22	5.592	5.590	5.608	HH	880	6655	0.07%	0.002%
23	5.620	5.608	5.627	HH	814	7262	0.08%	0.002%
24	5.643	5.627	5.659	HH	1455	18986	0.20%	0.006%
25	5.675	5.659	5.701	HH	978	19068	0.20%	0.006%
26	5.713	5.701	5.727	HH	1322	16136	0.17%	0.005%
27	5.731	5.727	5.746	HH	842	6966	0.07%	0.002%
28	5.760	5.746	5.765	HH	1321	11389	0.12%	0.003%
29	5.774	5.765	5.801	HH	1621	25523	0.26%	0.008%
30	5.813	5.801	5.835	HH	921	11069	0.11%	0.003%
31	5.853	5.835	5.867	HH	624	9155	0.09%	0.003%
32	5.898	5.867	5.926	HH	3893	53414	0.55%	0.016%
33	5.938	5.926	5.943	HH	700	6404	0.07%	0.002%
34	5.964	5.943	6.002	HH	1128	27383	0.28%	0.008%
35	6.015	6.002	6.025	HH	575	6668	0.07%	0.002%
36	6.045	6.025	6.068	HH	1832	25697	0.27%	0.008%

rteres

37	6.087	6.068	6.101	HH	3787	43104	0.45%	0.013%
38	6.113	6.101	6.158	HH	5498	81485	0.84%	0.024%
39	6.163	6.158	6.181	HH	709	8101	0.08%	0.002%
40	6.205	6.181	6.218	HH	1175	17512	0.18%	0.005%
41	6.232	6.218	6.249	HH	704	10733	0.11%	0.003%
42	6.269	6.249	6.283	HH	1837	22689	0.24%	0.007%
43	6.294	6.283	6.313	HH	1495	22602	0.23%	0.007%
44	6.321	6.313	6.354	HH	1303	25854	0.27%	0.008%
45	6.379	6.354	6.384	HH	1601	24063	0.25%	0.007%
46	6.399	6.384	6.430	HH	2163	45140	0.47%	0.014%
47	6.444	6.430	6.458	HH	1912	23655	0.25%	0.007%
48	6.472	6.458	6.491	HH	1359	23278	0.24%	0.007%
49	6.512	6.491	6.551	HH	2772	67871	0.70%	0.020%
50	6.567	6.551	6.589	HH	2995	42810	0.44%	0.013%
51	6.639	6.589	6.652	HH	2988	72790	0.75%	0.022%
52	6.673	6.652	6.714	HH	12075	158031	1.64%	0.047%
53	6.721	6.714	6.734	HH	1252	13294	0.14%	0.004%
54	6.748	6.734	6.784	HH	1380	33127	0.34%	0.010%
55	6.806	6.784	6.831	HH	7675	100713	1.04%	0.030%
56	6.840	6.831	6.859	HH	1708	25089	0.26%	0.008%
57	6.884	6.859	6.911	HH	2857	51781	0.54%	0.016%
58	6.941	6.911	6.973	HH	3802	74965	0.78%	0.022%
59	6.989	6.973	7.008	HH	2291	33934	0.35%	0.010%
60	7.025	7.008	7.050	HH	1697	31835	0.33%	0.010%
61	7.069	7.050	7.078	HH	1442	22842	0.24%	0.007%
62	7.097	7.078	7.111	HH	4177	51615	0.54%	0.015%
63	7.117	7.111	7.144	HH	2051	30379	0.31%	0.009%
64	7.167	7.144	7.205	HH	2504	57402	0.60%	0.017%
65	7.248	7.205	7.275	HH	2458	62881	0.65%	0.019%
66	7.312	7.275	7.345	HH	1741	53704	0.56%	0.016%
67	7.350	7.345	7.364	HH	929	9799	0.10%	0.003%
68	7.393	7.364	7.418	HH	1738	45470	0.47%	0.014%
69	7.436	7.418	7.465	HH	2156	45032	0.47%	0.014%
70	7.489	7.465	7.506	HH	1633	34350	0.36%	0.010%
71	7.523	7.506	7.545	HH	1909	36552	0.38%	0.011%
72	7.559	7.545	7.575	HH	3542	46975	0.49%	0.014%
73	7.589	7.575	7.602	HH	2486	36210	0.38%	0.011%
74	7.617	7.602	7.647	HH	3345	67767	0.70%	0.020%
75	7.659	7.647	7.696	HH	2286	60894	0.63%	0.018%
76	7.702	7.696	7.719	HH	2054	24923	0.26%	0.007%
77	7.748	7.719	7.773	HH	9656	136832	1.42%	0.041%
78	7.783	7.773	7.794	HH	2450	28845	0.30%	0.009%
79	7.807	7.794	7.831	HH	3261	52795	0.55%	0.016%
80	7.843	7.831	7.849	HH	1872	20019	0.21%	0.006%
81	7.861	7.849	7.868	HH	2018	21444	0.22%	0.006%
82	7.886	7.868	7.918	HH	7496	121114	1.26%	0.036%
83	7.926	7.918	7.948	HH	2212	35764	0.37%	0.011%
84	7.972	7.948	7.990	HH	1931	44374	0.46%	0.013%
85	8.000	7.990	8.010	HH	2123	23206	0.24%	0.007%
86	8.028	8.010	8.075	HH	6275	119479	1.24%	0.036%
87	8.080	8.075	8.096	HH	1982	24031	0.25%	0.007%
88	8.114	8.096	8.127	HH	2064	36703	0.38%	0.011%
89	8.135	8.127	8.142	HH	2149	18232	0.19%	0.005%

90	8.149	8.142	8.161	HH	2138	21929	0.23%	0.007%
91	8.194	8.161	8.211	HH	2287	61938	0.64%	0.019%
92	8.221	8.211	8.253	HH	2208	54253	0.56%	0.016%
93	8.258	8.253	8.305	HH	2125	57745	0.60%	0.017%
94	8.328	8.305	8.334	HH	2250	33184	0.34%	0.010%
95	8.339	8.334	8.359	HH	2248	31750	0.33%	0.010%
96	8.375	8.359	8.386	HH	2357	35666	0.37%	0.011%
97	8.391	8.386	8.409	HH	2183	28037	0.29%	0.008%
98	8.428	8.409	8.449	HH	3701	67482	0.70%	0.020%
99	8.472	8.449	8.500	HH	5282	114080	1.18%	0.034%
100	8.510	8.500	8.531	HH	2947	48022	0.50%	0.014%
101	8.553	8.531	8.569	HH	2816	58412	0.61%	0.018%
102	8.572	8.569	8.583	HH	2603	21785	0.23%	0.007%
103	8.596	8.583	8.617	HH	3097	57448	0.60%	0.017%
104	8.633	8.617	8.646	HH	3949	60149	0.62%	0.018%
105	8.651	8.646	8.662	HH	3280	30211	0.31%	0.009%
106	8.680	8.662	8.698	HH	3545	69574	0.72%	0.021%
107	8.726	8.698	8.737	HH	6464	110541	1.15%	0.033%
108	8.744	8.737	8.768	HH	5686	78803	0.82%	0.024%
109	8.795	8.768	8.826	HH	5229	134319	1.39%	0.040%
110	8.849	8.826	8.864	HH	9462	131042	1.36%	0.039%
111	8.877	8.864	8.886	HH	6981	74514	0.77%	0.022%
112	8.900	8.886	8.958	HH	10664	238636	2.47%	0.072%
113	8.967	8.958	8.978	HH	3460	40138	0.42%	0.012%
114	9.012	8.978	9.018	HH	6052	110874	1.15%	0.033%
115	9.038	9.018	9.071	HH	22782	346393	3.59%	0.104%
116	9.084	9.071	9.110	HH	5234	104213	1.08%	0.031%
117	9.126	9.110	9.144	HH	4971	81618	0.85%	0.024%
118	9.169	9.144	9.225	HH	4554	188424	1.95%	0.056%
119	9.249	9.225	9.263	HH	4514	87865	0.91%	0.026%
120	9.278	9.263	9.295	HH	4851	82762	0.86%	0.025%
121	9.331	9.295	9.351	HH	22524	314301	3.26%	0.094%
122	9.366	9.351	9.398	HH	7899	165310	1.71%	0.050%
123	9.402	9.398	9.411	HH	4583	34711	0.36%	0.010%
124	9.434	9.411	9.461	HH	7762	168982	1.75%	0.051%
125	9.482	9.461	9.502	HH	6834	131836	1.37%	0.040%
126	9.534	9.502	9.545	HH	5628	132664	1.38%	0.040%
127	9.566	9.545	9.582	HH	7919	143082	1.48%	0.043%
128	9.600	9.582	9.620	HH	15248	209455	2.17%	0.063%
129	9.634	9.620	9.664	HH	7259	148628	1.54%	0.045%
130	9.685	9.664	9.697	HH	5436	101341	1.05%	0.030%
131	9.715	9.697	9.751	HH	10531	234572	2.43%	0.070%
132	9.774	9.751	9.809	HH	7926	191084	1.98%	0.057%
133	9.829	9.809	9.862	HH	5051	148144	1.54%	0.044%
134	9.890	9.862	9.906	HH	8453	160169	1.66%	0.048%
135	9.921	9.906	9.958	HH	7558	176066	1.83%	0.053%
136	9.978	9.958	9.994	HH	7013	123116	1.28%	0.037%
137	10.028	9.994	10.049	HH	10701	233867	2.42%	0.070%
138	10.072	10.049	10.088	HH	6901	146266	1.52%	0.044%
139	10.111	10.088	10.158	HH	23676	458797	4.76%	0.138%
140	10.191	10.158	10.214	HH	9646	262926	2.73%	0.079%
141	10.228	10.214	10.240	HH	7399	105972	1.10%	0.032%

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142	10.260	10.240	10.294	HH	12771	295732	3.07%	0.089%
143	10.322	10.294	10.353	HH	9978	273386	2.83%	0.082%
144	10.378	10.353	10.408	HH	83016	964680	10.00%	0.289%
145	10.429	10.408	10.460	HH	16767	344587	3.57%	0.103%
146	10.487	10.460	10.509	HH	13127	274760	2.85%	0.082%
147	10.528	10.509	10.544	HH	15650	237614	2.46%	0.071%
148	10.552	10.544	10.573	HH	9898	143608	1.49%	0.043%
149	10.593	10.573	10.647	HH	8801	314051	3.26%	0.094%
150	10.685	10.647	10.718	HH	7504	288246	2.99%	0.086%
151	10.729	10.718	10.740	HH	6457	81883	0.85%	0.025%
152	10.777	10.740	10.801	HH	7942	249673	2.59%	0.075%
153	10.848	10.801	10.867	HH	13564	376905	3.91%	0.113%
154	10.873	10.867	10.893	HH	9761	138280	1.43%	0.041%
155	10.921	10.893	10.936	HH	9448	217385	2.25%	0.065%
156	10.954	10.936	10.969	HH	12438	211130	2.19%	0.063%
157	10.985	10.969	11.006	HH	14557	260714	2.70%	0.078%
158	11.027	11.006	11.054	HH	13504	292787	3.04%	0.088%
159	11.103	11.054	11.121	HH	13800	416656	4.32%	0.125%
160	11.132	11.121	11.137	HH	11277	103961	1.08%	0.031%
161	11.158	11.137	11.194	HH	24966	525012	5.44%	0.157%
162	11.220	11.194	11.251	HH	16527	423272	4.39%	0.127%
163	11.270	11.251	11.282	HH	16622	256991	2.66%	0.077%
164	11.300	11.282	11.329	HH	22669	517347	5.36%	0.155%
165	11.336	11.329	11.359	HH	12956	218300	2.26%	0.065%
166	11.373	11.359	11.383	HH	11834	161296	1.67%	0.048%
167	11.401	11.383	11.417	HH	15493	265958	2.76%	0.080%
168	11.437	11.417	11.457	HH	12463	275263	2.85%	0.083%
169	11.510	11.457	11.553	HH	254481	3207662	33.26%	0.962%
170	11.583	11.553	11.602	HH	82855	1068764	11.08%	0.320%
171	11.611	11.602	11.650	HH	18094	407079	4.22%	0.122%
172	11.672	11.650	11.697	HH	12448	337913	3.50%	0.101%
173	11.713	11.697	11.732	HH	11851	243369	2.52%	0.073%
174	11.751	11.732	11.766	HH	16736	282270	2.93%	0.085%
175	11.786	11.766	11.831	HH	33761	717322	7.44%	0.215%
176	11.859	11.831	11.878	HH	14429	380230	3.94%	0.114%
177	11.896	11.878	11.906	HH	18568	283733	2.94%	0.085%
178	11.918	11.906	11.951	HH	21086	462954	4.80%	0.139%
179	12.029	11.951	12.066	HH	26499	1258018	13.04%	0.377%
180	12.096	12.066	12.123	HH	20558	574748	5.96%	0.172%
181	12.155	12.123	12.183	HH	21867	675637	7.01%	0.203%
182	12.192	12.183	12.217	HH	19568	368124	3.82%	0.110%
183	12.233	12.217	12.244	HH	17694	271114	2.81%	0.081%
184	12.258	12.244	12.270	HH	18575	281027	2.91%	0.084%
185	12.304	12.270	12.318	HH	55276	918095	9.52%	0.275%
186	12.335	12.318	12.363	HH	72698	1066447	11.06%	0.320%
187	12.371	12.363	12.382	HH	20055	226714	2.35%	0.068%
188	12.400	12.382	12.410	HH	42866	534812	5.55%	0.160%
189	12.422	12.410	12.438	HH	54310	698391	7.24%	0.209%
190	12.453	12.438	12.466	HH	45042	597725	6.20%	0.179%
191	12.483	12.466	12.506	HH	58663	905524	9.39%	0.271%
192	12.519	12.506	12.532	HH	21656	327705	3.40%	0.098%
193	12.556	12.532	12.562	HH	24668	406365	4.21%	0.122%
194	12.581	12.562	12.606	HH	30023	682409	7.08%	0.205%

195	12.617	12.606	12.638	HH	25122	461595	4.79%	0.138%
196	12.662	12.638	12.725	HH	43441	1521954	15.78%	0.456%
197	12.730	12.725	12.735	HH	23398	130403	1.35%	0.039%
198	12.767	12.735	12.791	HH	50162	1074195	11.14%	0.322%
199	12.831	12.791	12.877	HH	115865	2454232	25.45%	0.736%
200	12.897	12.877	12.930	HH	34202	972380	10.08%	0.292%
201	12.962	12.930	12.982	HH	44566	1076628	11.16%	0.323%
202	13.000	12.982	13.012	HH	37693	608278	6.31%	0.182%
203	13.016	13.012	13.032	HH	33760	375811	3.90%	0.113%
204	13.041	13.032	13.052	HH	32556	389014	4.03%	0.117%
205	13.087	13.052	13.128	HH	49779	1779405	18.45%	0.533%
206	13.180	13.128	13.216	HH	122308	3186396	33.04%	0.955%
207	13.224	13.216	13.231	HH	45543	379782	3.94%	0.114%
208	13.233	13.231	13.246	HH	45407	412066	4.27%	0.124%
209	13.264	13.246	13.293	HH	56678	1223258	12.68%	0.367%
210	13.325	13.293	13.359	HH	472618	6132861	63.59%	1.839%
211	13.381	13.359	13.391	HH	37441	676977	7.02%	0.203%
212	13.411	13.391	13.433	HH	43365	983535	10.20%	0.295%
213	13.461	13.433	13.482	HH	50686	1243738	12.90%	0.373%
214	13.508	13.482	13.534	HH	52306	1432586	14.85%	0.430%
215	13.542	13.534	13.560	HH	43509	624529	6.48%	0.187%
216	13.573	13.560	13.592	HH	40599	743029	7.70%	0.223%
217	13.624	13.592	13.656	HH	430675	6046385	62.69%	1.813%
218	13.672	13.656	13.685	HH	79264	1094092	11.34%	0.328%
219	13.700	13.685	13.724	HH	78932	1365900	14.16%	0.410%
220	13.736	13.724	13.756	HH	43718	784125	8.13%	0.235%
221	13.759	13.756	13.765	HH	40338	220512	2.29%	0.066%
222	13.786	13.765	13.800	HH	55720	1007831	10.45%	0.302%
223	13.820	13.800	13.839	HH	61886	1201116	12.45%	0.360%
224	13.881	13.839	13.905	HH	70399	2227447	23.10%	0.668%
225	13.913	13.905	13.929	HH	59294	808038	8.38%	0.242%
226	13.941	13.929	13.981	HH	52678	1494916	15.50%	0.448%
227	14.011	13.981	14.040	HH	63643	1930916	20.02%	0.579%
228	14.070	14.040	14.098	HH	88597	2442484	25.32%	0.732%
229	14.111	14.098	14.121	HH	50914	697727	7.23%	0.209%
230	14.136	14.121	14.149	HH	50416	822444	8.53%	0.247%
231	14.201	14.149	14.237	HH	118847	3761974	39.01%	1.128%
232	14.261	14.237	14.281	HH	70856	1615576	16.75%	0.484%
233	14.306	14.281	14.331	HH	195608	3169146	32.86%	0.950%
234	14.351	14.331	14.370	HH	88576	1705876	17.69%	0.511%
235	14.390	14.370	14.400	HH	66337	1177869	12.21%	0.353%
236	14.413	14.400	14.421	HH	64000	765526	7.94%	0.230%
237	14.437	14.421	14.442	HH	69919	852027	8.83%	0.255%
238	14.454	14.442	14.461	HH	72751	818320	8.48%	0.245%
239	14.483	14.461	14.503	HH	125003	2334354	24.20%	0.700%
240	14.519	14.503	14.553	HH	94142	2204142	22.85%	0.661%
241	14.590	14.553	14.607	HH	73539	2120480	21.99%	0.636%
242	14.636	14.607	14.662	HH	100514	2594409	26.90%	0.778%
243	14.675	14.662	14.710	HH	73383	1954355	20.26%	0.586%
244	14.723	14.710	14.738	HH	67935	1097146	11.38%	0.329%
245	14.765	14.738	14.770	HH	66948	1246195	12.92%	0.374%
246	14.791	14.770	14.811	HH	75520	1745512	18.10%	0.523%

247	14.814	14.811	14.832	HH	70022	886056	9.19%	0.266%
248	14.870	14.832	14.874	HH	76100	1793495	18.60%	0.538%
249	14.896	14.874	14.916	HH	107746	2271684	23.55%	0.681%
250	14.935	14.916	14.959	HH	117033	2376946	24.65%	0.713%
251	14.986	14.959	15.013	HH	105356	2837232	29.42%	0.851%
252	15.037	15.013	15.066	HH	87409	2540966	26.35%	0.762%
253	15.113	15.066	15.132	HH	109360	3554858	36.86%	1.066%
254	15.137	15.132	15.150	HH	83711	855934	8.87%	0.257%
255	15.175	15.150	15.200	HH	139084	3276786	33.98%	0.982%
256	15.218	15.200	15.222	HH	99062	1268689	13.15%	0.380%
257	15.238	15.222	15.276	HH	120420	3153696	32.70%	0.946%
258	15.304	15.276	15.336	HH	163546	4114911	42.67%	1.234%
259	15.362	15.336	15.390	HH	99490	2920548	30.28%	0.876%
260	15.398	15.390	15.412	HH	85202	1133065	11.75%	0.340%
261	15.443	15.412	15.454	HH	102214	2296428	23.81%	0.689%
262	15.489	15.454	15.510	HH	325050	6135566	63.62%	1.840%
263	15.532	15.510	15.556	HH	320560	5194840	53.86%	1.557%
264	15.574	15.556	15.603	HH	100407	2659068	27.57%	0.797%
265	15.652	15.603	15.690	HH	136821	5511168	57.14%	1.652%
266	15.694	15.690	15.698	HH	99053	491428	5.10%	0.147%
267	15.724	15.698	15.746	HH	117213	3041931	31.54%	0.912%
268	15.788	15.746	15.816	HH	119663	4331287	44.91%	1.299%
269	15.831	15.816	15.851	HH	115444	2363134	24.50%	0.709%
270	15.886	15.851	15.906	HH	139548	3946750	40.92%	1.183%
271	15.929	15.906	15.946	HH	117096	2728479	28.29%	0.818%
272	15.951	15.946	15.960	HH	114071	930226	9.65%	0.279%
273	15.968	15.960	15.991	HH	114250	2014188	20.88%	0.604%
274	16.026	15.991	16.040	HH	116920	3287267	34.08%	0.986%
275	16.053	16.040	16.066	HH	121697	1871458	19.40%	0.561%
276	16.074	16.066	16.091	HH	118513	1742208	18.06%	0.522%
277	16.118	16.091	16.124	HH	125580	2357957	24.45%	0.707%
278	16.157	16.124	16.177	HH	170483	4476960	46.42%	1.342%
279	16.196	16.177	16.231	HH	147684	4148494	43.01%	1.244%
280	16.244	16.231	16.257	HH	130211	2018813	20.93%	0.605%
281	16.307	16.257	16.311	HH	152827	4355436	45.16%	1.306%
282	16.319	16.311	16.348	HH	153119	3142230	32.58%	0.942%
283	16.391	16.348	16.416	HH	141262	5313409	55.09%	1.593%
284	16.430	16.416	16.436	HH	129302	1541621	15.98%	0.462%
285	16.441	16.436	16.450	HH	129879	1082934	11.23%	0.325%
286	16.475	16.450	16.501	HH	140785	4063776	42.14%	1.218%
287	16.520	16.501	16.556	HH	148948	4596564	47.66%	1.378%
288	16.586	16.556	16.611	HH	145953	4596137	47.66%	1.378%
289	16.624	16.611	16.639	HH	136653	2294463	23.79%	0.688%
290	16.660	16.639	16.668	HH	138169	2390537	24.79%	0.717%
291	16.687	16.668	16.691	HH	139917	1915845	19.86%	0.574%
292	16.695	16.691	16.701	HH	140130	832616	8.63%	0.250%
293	16.755	16.701	16.772	HH	157684	6249542	64.80%	1.874%
294	16.776	16.772	16.779	HH	151663	664518	6.89%	0.199%
295	16.788	16.779	16.810	HH	154383	2719091	28.19%	0.815%
296	16.832	16.810	16.842	HH	169059	3079012	31.92%	0.923%
297	16.847	16.842	16.871	HH	163572	2826453	29.31%	0.847%
298	16.895	16.871	16.929	HH	168559	5585919	57.92%	1.675%
299	16.956	16.929	16.975	HH	179826	4655622	48.27%	1.396%

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300	16.981	16.975	16.993	HH	170223	1846150	19.14%	0.554%
301	17.013	16.993	17.017	HH	171718	2440943	25.31%	0.732%
302	17.051	17.017	17.067	HH	420145	8453333	87.65%	2.534%
303	17.076	17.067	17.122	HH	274830	6681831	69.28%	2.003%
304	17.177	17.122	17.197	HH	231888	8601676	89.19%	2.579%
305	17.211	17.197	17.232	HH	187337	3913271	40.57%	1.173%
306	17.236	17.232	17.246	HH	184647	1536453	15.93%	0.461%
307	17.251	17.246	17.256	HH	184525	1101092	11.42%	0.330%
308	17.270	17.256	17.288	HH	188217	3536121	36.66%	1.060%
309	17.301	17.288	17.310	HH	193519	2524908	26.18%	0.757%
310	17.340	17.310	17.343	HH	206024	4010802	41.59%	1.203%
311	17.374	17.343	17.401	HH	353051	8823160	91.48%	2.645%
312	17.433	17.401	17.461	HHA	413474	9644580	100.00%	2.892%

Sum of corrected areas: 333538581

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SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. / QUOTE NO.: Q1241
COC Number: 2041692

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RU2 Engineering LLC
ADDRESS: 2 Melinda Drive, Monroe Twp, NJ 08831
CITY: ZIP:
ATTENTION: Rutu Manani
PHONE: 609-409-4564 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: SANDTWOBR BMCR Project
PROJECT NO.: LOCATION: Brooklyn, NYC
PROJECT MANAGER: Rutu Manani
e-mail: Rmanani@Ru2eng.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Same as company address PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard 10 days DAYS*
HARDCOPY (DATA PACKAGE): Standard 10 days DAYS*
EDD: Standard 10 days DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☒ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1 TCL VOCs + TICs, MTBE, TBA
2 TCLP VOCs
3 TPH GRO-DRO
4 TCL SVOCs + TICs
5 TAL Metals
6 Pesticides, PCBs
7 RCRA characteristics
8 Paint filter
9 full TCLP

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	JPP-3.5-013025	Soil		G	1/30/25	8:11	3	X	X	X	RA	X					
2.	JPP-3.5-013025	Soil	C		1/30/25	8:20	8			X	X	X	X	X	X	X	
3.	JPP-5.3-013025	Soil		G	1/30/25	8:52	3	X	X	X							
4.	JPP-5.3-013025	Soil	C		1/30/25	9:00	8			X	X	X	X	X	X	X	
5.	JPP-5.2-013025	Soil		G	1/30/25	9:46	3	X	X	X							
6.	JPP-5.2-013025	Soil	C		1/30/25	9:54	8			X	X	X	X	X	X	X	
7.	JPP-5.4-013025	Soil		G	1/30/25	10:43	3	X	X	X							
8.	JPP-5.4-013025	Soil	C		1/30/25	10:51	8			X	X	X	X	X	X	X	
9.	JPP-5.4-013025	Soil		G	1/30/25	11:48	3	X	X	X							
10.	JPP-5.4-013025	Soil	C		1/30/25	11:56	8			X	X	X	X	X	X	X	

PRESERVATIVES: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. RA	1-30-25 1453	1.
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.1 °C
Comments: Preserve extra Sample Jar if additional analysis is Required.
1 Cooler #

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1241 RUTW01
Client Name : RU2 Engineering, LLC
Client Contact : Rutu Manani
Invoice Name : RU2 Engineering, LLC
Invoice Contact : Rutu Manani

Order Date : 1/30/2025 2:58:00 PM
Project Name : NYCDDC SANTWOBR Bı
Receive DateTime : 1/30/2025 2:53:00 PM
Purchase Order :

Project Mgr :
Report Type : NYS ASP B
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1241-01	JPP-3.5-013025	Solid	01/30/2025	08:11					
					VOCMS Group1		8260D		10 Bus. Days
Q1241-05	JPP-5.3-013025	Solid	01/30/2025	08:52					
					VOCMS Group1		8260D		10 Bus. Days
Q1241-09	JPP-5.2-013025	Solid	01/30/2025	09:46					
					VOCMS Group1		8260D		10 Bus. Days
Q1241-13	JPP-5.4-013025	Solid	01/30/2025	10:43					
					VOCMS Group1		8260D		10 Bus. Days
Q1241-17	JPP-51.4-013025	Solid	01/30/2025	11:48					
					VOCMS Group1		8260D		10 Bus. Days

Relinguished By : CL
Date / Time : 1-30-25 1550

Received By : JC
Date / Time : 1/30/25 1580

Storage Area : VOA Refridgerator Room

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

LOGIN REPORT/SAMPLE TRANSFER

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LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1241-01	JPP-3.5-013025	Solid	01/30/2025	08:11					
					Gasoline Range Organics		8015D		10 Bus. Days
Q1241-05	JPP-5.3-013025	Solid	01/30/2025	08:52					
					Gasoline Range Organics		8015D		10 Bus. Days
Q1241-09	JPP-5.2-013025	Solid	01/30/2025	09:46					
					Gasoline Range Organics		8015D		10 Bus. Days
Q1241-13	JPP-5.4-013025	Solid	01/30/2025	10:43					
					Gasoline Range Organics		8015D		10 Bus. Days
Q1241-17	JPP-51.4-013025	Solid	01/30/2025	11:48					
					Gasoline Range Organics		8015D		10 Bus. Days

Relinguished By : cl
Date / Time : 1-30-25 1550

Received By : JC
Date / Time : 1/30/25 1550

Storage Area : VOA Refridgerator Room