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Cover Page

Order ID : P4495

Project ID : NJ Soil PT

Client : Chemtech Consulting Group

Lab Sample Number	Client Sample Number
P4495-01	PT-AN-SOIL
P4495-02	PT-CORR-SOIL
P4495-03	PT-CN-SOIL
P4495-04	PT-CN-SOIL
P4495-05	PT-FP-SOIL
P4495-06	PT-CR6-SOIL
P4495-07	PT-NUT-SOIL
P4495-08	PT-NUT-SOIL
P4495-09	PT-OGR-SOIL
P4495-10	PT-MET-SOIL
P4495-11	PT-BNA-SOIL
P4495-12	PT-TRIAZINE-SOIL
P4495-13	PT-PAH-SOIL
P4495-14	PT-DIES-SOIL
P4495-15	PT-GAS-SOIL
P4495-16	PT-NJEPH-SOIL
P4495-17	PT-HERB-SOIL
P4495-18	PT-PCB-SOIL
P4495-19	PT-PCBO-SOIL
P4495-20	PT-PEST-SOIL
P4495-21	PT-CHLR-SOIL
P4495-22	PT-TXP-SOIL
P4495-23	PT-VOA-SOIL
P4495-24	PT-SOL-SOIL
P4495-25	PT-NO2-SOIL

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: 12/3/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Chemtech Consulting Group
Project Name: NJ Soil PT
Project # N/A
Chemtech Project # P4495
Test Name: Diesel Range Organics

A. Number of Samples and Date of Receipt:
25 Solid samples were received on 10/23/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Anions Group2, Corrosivity, Cyanide, Diesel Range Organics, EPH, Flash Point, Gasoline Range Organics, Herbicide Group1, Hexavalent Chromium, Mercury, Metals Group3, Metals ICP-Group1, Nitrite, Oil and Grease, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, Phosphorus, Total, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, TKN, TOC, TS and VOCMS Group1. This data package contains results for Diesel Range Organics.

C. Analytical Techniques:
The analysis were performed on instrument FID_F. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of 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.
The Retention Times were acceptable for all samples.
The MS {P4518-01MS} with File ID: FF014766.D recoveries met the requirements for all compounds except for DRO[-4977.6%] Due to matrix interference.

The MSD {P4518-01MSD} with File ID: FF014767.D recoveries met the acceptable requirements except for DRO[-5575.2%] 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 .

Samples PT-DIES-SOIL was diluted due to bad matrix ,
The above sample original run reported as screening data in miscellaneous data.

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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: P4495 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.			✓
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 {P4518-01MS} with File ID: FF014766.D recoveries met the requirements for all compounds except for DRO[-4977.6%] Due to matrix interference. The MSD {P4518-01MSD} with File ID: FF014767.D recoveries met the acceptable requirements except for DRO[-5575.2%] 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 PT-DIES-SOIL was diluted due to bad matrix ,The above sample original run 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 #: **P4495**

	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:** **12/03/2024**

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LAB CHRONICLE

OrderID:	P4495	**OrderDate:**	10/23/2024 10:29:00 AM
Client:	Chemtech Consulting Group	**Project:**	NJ Soil PT
Contact:	QA Officer	**Location:**	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4495-14	**PT-DIES-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			Diesel Range Organics	8015D		10/24/24	10/25/24	
P4495-15	**PT-GAS-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			Gasoline Range Organics	8015D			10/30/24	
P4495-16	**PT-NJEPH-SOIL**	**Solid**			**10/21/24**			**10/23/24**
			EPH	NJEPH		10/25/24	10/28/24	
			EPH	NJEPH		10/25/24	10/29/24	
			EPH	NJEPH		10/25/24	10/28/24	
P4495-16DL2	**PT-NJEPH-SOILDL2**	**Solid**			**10/21/24**			**10/23/24**
			EPH	NJEPH		10/25/24	10/28/24	
P4495-17	**PT-HERB-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			Herbicide Group1	8151A		11/14/24	11/25/24	
P4495-17RE	**PT-HERB-SOILRE**	**SOIL**			**10/21/24**			**10/23/24**
			Herbicide Group1	8151A		11/14/24	11/25/24	
P4495-18	**PT-PCB-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			PCB	8082A		10/25/24	10/25/24	
P4495-18DL	**PT-PCB-SOIL DL**	**SOIL**			**10/21/24**			**10/23/24**
			PCB	8082A		10/25/24	10/25/24	
P4495-19	**PT-PCBO-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			PCB	8082A		10/25/24	10/28/24	
P4495-19DL	**PT-PCBO-SOILDL**	**SOIL**			**10/21/24**			**10/23/24**

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LAB CHRONICLE

			PCB	8082A		10/25/24	10/28/24	
P4495-20	**PT-PEST-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL	**PT-PEST-SOILDL**	**SOIL**			**10/21/24**			**10/23/24**
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-20DL2	**PT-PEST-SOILDL2**	**SOIL**			**10/21/24**			**10/23/24**
			PESTICIDE Group1	8081B		10/25/24	11/04/24	
P4495-21	**PT-CHLR-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			PESTICIDE Group2	8081B		10/25/24	10/31/24	
P4495-22	**PT-TXP-SOIL**	**SOIL**			**10/21/24**			**10/23/24**
			PESTICIDE Group3	8081B		10/25/24	10/31/24	
P4495-22DL	**PT-TXP-SOILDL**	**SOIL**			**10/21/24**			**10/23/24**
			PESTICIDE Group3	8081B		10/25/24	10/31/24	

QC SUMMARY

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SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: Chemtech Consulting Group

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF014756.D	82				0
PIBLK-FF014763.D	85				0
PIBLK-FF014772.D	80				0
PIBLK-FF014775.D	99				0
PIBLK-FF014786.D	83				0
PT-DIES-SOIL	100				0
EX-5-TPH-1MS	58				0
EX-5-TPH-1MSD	53				0
PB164381BL	77				0
PB164381BS	80				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:** Chemtech Consulting Group

Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495

Client SampleID : EX-5-TPH-1MS **Datafile:** FF014766.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	8478	1390000	968000	-4978%	*	68-131

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SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Chemtech Consulting Group

Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495

Client SampleID : EX-5-TPH-1MSD **Datafile:** FF014767.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	8484	1390000	917000	-5575%	*	68-131

MS/MSD % Recovery RPD : 11.3

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

Lab Name: Chemtech **Client:** Chemtech Consulting Group

Lab Code: CHEM **Cas No:** P4495 **SAS No :** P4495 **SDG No:** P4495

Matrix Spike - EPA Sample No : PB164381BS **Datafile:** FF014760.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
DRO	6664	0	6639	100	68-131

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164381BL

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG NO.: P4495

Lab File ID: FF014759.D Lab Sample ID: PB164381BL

Instrument ID: FF Date Extracted: 10/24/2024

Matrix: (soil/water) Soil Date Analyzed: 10/24/24

Level: (low/med) low Time Analyzed: 14:33

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164381BS	PB164381BS	FF014760.D	10/24/24
EX-5-TPH-1MS	P4518-01MS	FF014766.D	10/24/24
EX-5-TPH-1MSD	P4518-01MSD	FF014767.D	10/24/24
PT-DIES-SOIL	P4495-14	FF014778.D	10/25/24

COMMENTS:

SAMPLE DATA

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/21/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	PT-DIES-SOIL	SDG No.:	P4495
Lab Sample ID:	P4495-14	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	20.12 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
FF014778.D	50	10/24/24 11:10	10/25/24 8:27	PB164381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1300000		13800	124000	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	0.40		37 - 130	100%	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_F\Data\FF102524\
Data File : FF014778.D
Signal(s) : FID2B.ch
Acq On : 25 Oct 2024 08:27
Operator : YP\AJ
Sample : P4495-14 50X
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PT-DIES-SOIL

Integration File: autoint1.e
Quant Time: Oct 26 04:02:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
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...	15.009	53140	0.404 ug/ml
Target Compounds			

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

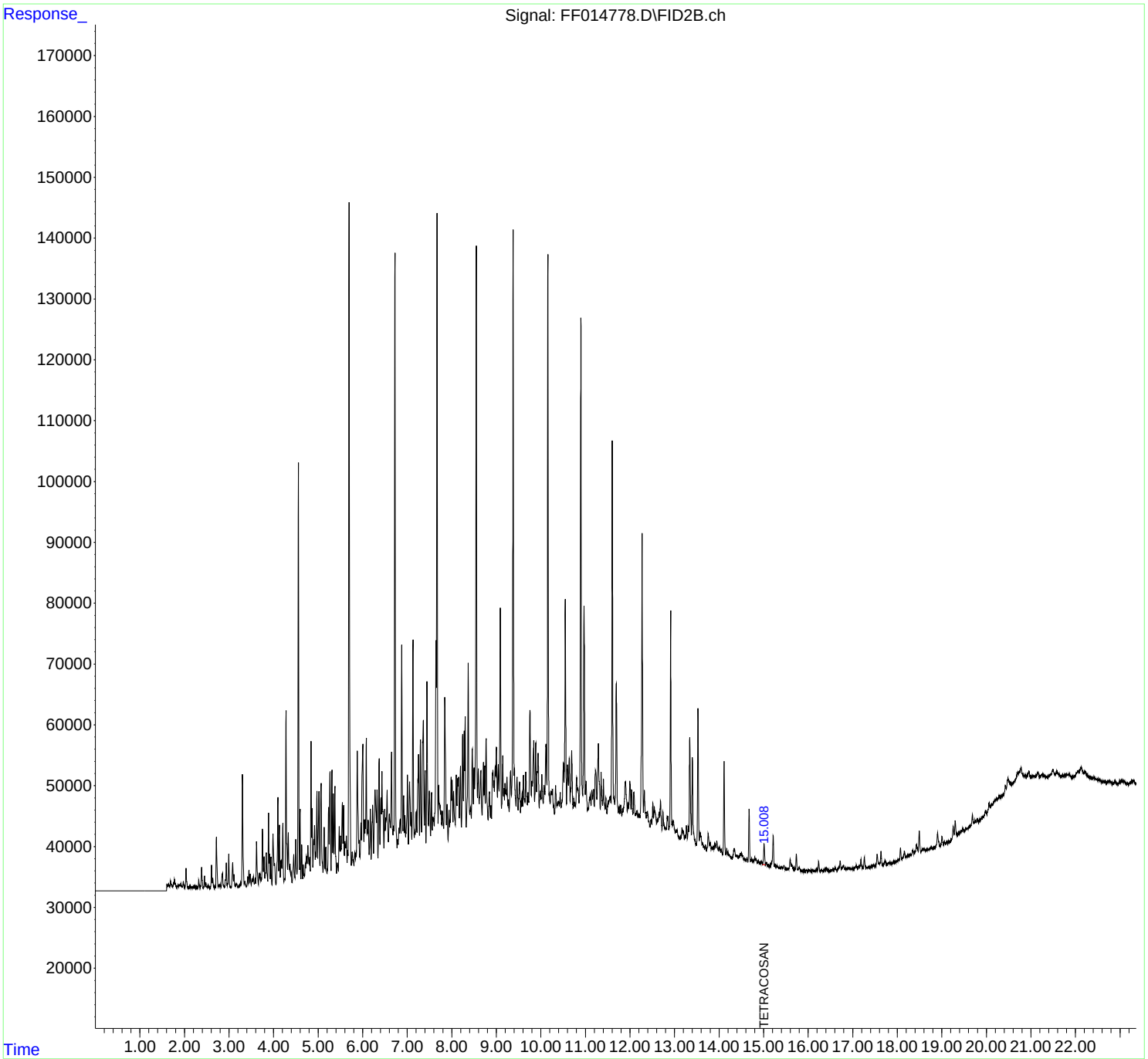
Quantitation Report (QT Reviewed)

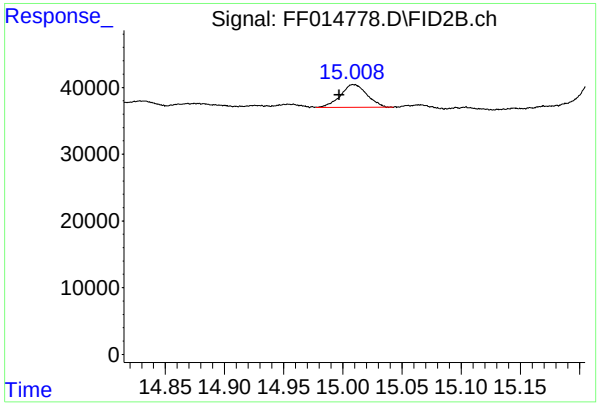
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102524\
Data File : FF014778.D
Signal(s) : FID2B.ch
Acq On : 25 Oct 2024 08:27
Operator : YP\AJ
Sample : P4495-14 50X
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PT-DIES-SOIL

Integration File: autoint1.e
Quant Time: Oct 26 04:02:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.009 min
Delta R.T.: 0.012 mir
Response: 53140
Conc: 0.40 ug/m

Instrument :
FID_F
ClientSampleId :
PT-DIES-SOIL

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102524\
Data File : FF014778.D
Signal(s) : FID2B.ch
Acq On : 25 Oct 2024 08:27
Sample : P4495-14 50X
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.454	4.410	4.480	BV	4548	72870	4.69%	0.095%
2	4.499	4.480	4.526	VV	6994	96843	6.24%	0.126%
3	4.558	4.526	4.580	VV	68796	718217	46.25%	0.934%
4	4.595	4.580	4.615	VV	11951	116812	7.52%	0.152%
5	4.633	4.615	4.652	VV	6106	71099	4.58%	0.092%
6	4.667	4.652	4.683	VV	2828	31389	2.02%	0.041%
7	4.688	4.683	4.695	VV	1161	7861	0.51%	0.010%
8	4.712	4.695	4.721	VV	2937	31445	2.03%	0.041%
9	4.739	4.721	4.755	VV	4227	72087	4.64%	0.094%
10	4.772	4.755	4.797	VV	6024	105014	6.76%	0.137%
11	4.811	4.797	4.825	VV	4006	52787	3.40%	0.069%
12	4.843	4.825	4.857	VV	23078	244516	15.75%	0.318%
13	4.867	4.857	4.884	VV	12081	125322	8.07%	0.163%
14	4.902	4.884	4.911	VV	6911	87477	5.63%	0.114%
15	4.922	4.911	4.937	VV	9217	106594	6.86%	0.139%
16	4.946	4.937	4.954	VV	4555	43912	2.83%	0.057%
17	4.974	4.954	4.990	VV	14900	185469	11.94%	0.241%
18	5.020	4.990	5.040	VV	14797	261677	16.85%	0.340%
19	5.069	5.040	5.111	VV	16156	315935	20.35%	0.411%
20	5.138	5.111	5.158	VV	8928	128132	8.25%	0.167%
21	5.173	5.158	5.200	VV	5656	85844	5.53%	0.112%
22	5.235	5.200	5.248	VV	12177	162179	10.44%	0.211%
23	5.267	5.248	5.292	VV	18068	286822	18.47%	0.373%
24	5.311	5.292	5.327	VV	18300	210857	13.58%	0.274%
25	5.343	5.327	5.359	VV	14411	170359	10.97%	0.222%
26	5.377	5.359	5.415	VV	15596	232487	14.97%	0.302%
27	5.432	5.415	5.454	VV	3013	56023	3.61%	0.073%
28	5.476	5.454	5.489	VV	9001	120492	7.76%	0.157%
29	5.501	5.489	5.514	VV	7410	90597	5.83%	0.118%
30	5.545	5.514	5.560	VV	12880	234297	15.09%	0.305%
31	5.573	5.560	5.589	VV	12480	147756	9.52%	0.192%
32	5.601	5.589	5.623	VV	6518	118582	7.64%	0.154%
33	5.636	5.623	5.652	VV	7436	99299	6.39%	0.129%
34	5.665	5.652	5.673	VV	5062	53264	3.43%	0.069%
35	5.695	5.673	5.747	VV	111377	1479836	95.30%	1.925%
36	5.768	5.747	5.782	VV	4770	81831	5.27%	0.106%

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37	5.787	5.782	5.806	VV	3462	44318	2.85%	0.058%
38	5.825	5.806	5.839	VV	4704	77379	4.98%	0.101%
39	5.849	5.839	5.859	VV	4635	50222	3.23%	0.065%
40	5.880	5.859	5.913	VV	21339	385584	24.83%	0.502%
41	5.919	5.913	5.939	VV	6713	82150	5.29%	0.107%
42	5.962	5.939	5.971	VV	9512	127288	8.20%	0.166%
43	6.005	5.971	6.030	VV	22458	517997	33.36%	0.674%
44	6.042	6.030	6.051	VV	10056	109297	7.04%	0.142%
45	6.060	6.051	6.067	VV	9624	85727	5.52%	0.112%
46	6.082	6.067	6.098	VV	23468	275663	17.75%	0.359%
47	6.106	6.098	6.114	VV	8465	73953	4.76%	0.096%
48	6.127	6.114	6.147	VV	9895	153597	9.89%	0.200%
49	6.174	6.147	6.192	VV	11765	196410	12.65%	0.255%
50	6.226	6.192	6.246	VV	12430	270337	17.41%	0.352%
51	6.279	6.246	6.311	VV	14924	424282	27.32%	0.552%
52	6.325	6.311	6.344	VV	14858	201905	13.00%	0.263%
53	6.371	6.344	6.390	VV	20077	297251	19.14%	0.387%
54	6.411	6.390	6.422	VV	13604	211126	13.60%	0.275%
55	6.435	6.422	6.479	VV	17880	399849	25.75%	0.520%
56	6.495	6.479	6.508	VV	11677	153075	9.86%	0.199%
57	6.522	6.508	6.529	VV	10308	120138	7.74%	0.156%
58	6.550	6.529	6.580	VV	14790	313870	20.21%	0.408%
59	6.599	6.580	6.626	VV	10897	252892	16.29%	0.329%
60	6.650	6.626	6.682	VV	21104	415129	26.73%	0.540%
61	6.695	6.682	6.704	VV	8955	108128	6.96%	0.141%
62	6.725	6.704	6.774	VV	103038	1300203	83.73%	1.691%
63	6.787	6.774	6.798	VV	6658	88831	5.72%	0.116%
64	6.815	6.798	6.826	VV	8491	127062	8.18%	0.165%
65	6.846	6.826	6.859	VV	10002	180888	11.65%	0.235%
66	6.878	6.859	6.905	VV	38515	543541	35.00%	0.707%
67	6.921	6.905	6.940	VV	13804	232147	14.95%	0.302%
68	6.951	6.940	6.965	VV	10614	132314	8.52%	0.172%
69	7.007	6.965	7.028	VV	17247	390824	25.17%	0.508%
70	7.054	7.028	7.081	VV	16094	361299	23.27%	0.470%
71	7.090	7.081	7.104	VV	11072	128308	8.26%	0.167%
72	7.130	7.104	7.160	VV	39400	588920	37.93%	0.766%
73	7.202	7.160	7.219	VV	11152	309919	19.96%	0.403%
74	7.256	7.219	7.277	VV	20567	490508	31.59%	0.638%
75	7.298	7.277	7.326	VV	22951	394960	25.44%	0.514%
76	7.363	7.326	7.387	VV	26091	647962	41.73%	0.843%
77	7.403	7.387	7.423	VV	17921	262814	16.93%	0.342%
78	7.445	7.423	7.480	VV	32557	570105	36.71%	0.742%
79	7.498	7.480	7.526	VV	14457	307707	19.82%	0.400%
80	7.547	7.526	7.563	VV	14208	235595	15.17%	0.306%
81	7.577	7.563	7.586	VV	10194	130791	8.42%	0.170%
82	7.591	7.586	7.606	VV	9969	118733	7.65%	0.154%
83	7.647	7.606	7.655	VV	39207	571791	36.82%	0.744%
84	7.671	7.655	7.695	VV	109401	1293859	83.32%	1.683%
85	7.708	7.695	7.732	VV	15462	287571	18.52%	0.374%
86	7.739	7.732	7.751	VV	12262	130318	8.39%	0.170%
87	7.759	7.751	7.774	VV	11302	145659	9.38%	0.189%
88	7.793	7.774	7.820	VV	11197	267234	17.21%	0.348%
89	7.845	7.820	7.881	VV	29754	648047	41.73%	0.843%

90	7.898	7.881	7.918	VV	12295	215728	13.89%	0.281%
91	7.941	7.918	7.954	VV	11317	197013	12.69%	0.256%
92	7.987	7.954	7.998	VV	16770	312053	20.10%	0.406%
93	8.010	7.998	8.027	VV	16219	245116	15.79%	0.319%
94	8.042	8.027	8.079	VV	14343	350707	22.59%	0.456%
95	8.102	8.079	8.118	VV	17080	312275	20.11%	0.406%
96	8.134	8.118	8.143	VV	16474	222110	14.30%	0.289%
97	8.153	8.143	8.171	VV	16781	238644	15.37%	0.310%
98	8.197	8.171	8.219	VV	18530	382462	24.63%	0.498%
99	8.245	8.219	8.263	VV	23762	422803	27.23%	0.550%
100	8.280	8.263	8.291	VV	24284	314834	20.28%	0.410%
101	8.302	8.291	8.326	VV	26644	366323	23.59%	0.477%
102	8.371	8.326	8.404	VV	35402	787501	50.71%	1.024%
103	8.425	8.404	8.441	VV	11740	243005	15.65%	0.316%
104	8.462	8.441	8.486	VV	21335	434674	27.99%	0.565%
105	8.501	8.486	8.516	VV	18194	281714	18.14%	0.366%
106	8.552	8.516	8.578	VV	103769	1536278	98.94%	1.998%
107	8.598	8.578	8.617	VV	18053	358318	23.08%	0.466%
108	8.654	8.617	8.681	VV	17651	542999	34.97%	0.706%
109	8.713	8.681	8.726	VV	18988	394496	25.41%	0.513%
110	8.738	8.726	8.754	VV	18443	257371	16.57%	0.335%
111	8.773	8.754	8.815	VV	22959	562051	36.20%	0.731%
112	8.846	8.815	8.868	VV	14222	380582	24.51%	0.495%
113	8.881	8.868	8.894	VV	11986	172961	11.14%	0.225%
114	8.914	8.894	8.919	VV	17320	213683	13.76%	0.278%
115	8.926	8.919	8.939	VV	17754	200652	12.92%	0.261%
116	8.948	8.939	8.958	VV	16016	174205	11.22%	0.227%
117	8.976	8.958	8.987	VV	18304	289869	18.67%	0.377%
118	9.002	8.987	9.026	VV	21508	427299	27.52%	0.556%
119	9.046	9.026	9.062	VV	18579	342473	22.06%	0.446%
120	9.092	9.062	9.117	VV	44449	817562	52.65%	1.064%
121	9.146	9.117	9.164	VV	20099	425265	27.39%	0.553%
122	9.173	9.164	9.185	VV	14760	175204	11.28%	0.228%
123	9.198	9.185	9.211	VV	15493	220634	14.21%	0.287%
124	9.217	9.211	9.226	VV	14179	129369	8.33%	0.168%
125	9.241	9.226	9.260	VV	16542	300455	19.35%	0.391%
126	9.273	9.260	9.290	VV	12831	217957	14.04%	0.284%
127	9.322	9.290	9.339	VV	17540	428129	27.57%	0.557%
128	9.379	9.339	9.402	VV	106394	1552803	100.00%	2.020%
129	9.408	9.402	9.446	VV	17780	377351	24.30%	0.491%
130	9.466	9.446	9.490	VV	16482	375022	24.15%	0.488%
131	9.524	9.490	9.544	VV	15711	428878	27.62%	0.558%
132	9.558	9.544	9.568	VV	12576	171449	11.04%	0.223%
133	9.581	9.568	9.593	VV	14000	195888	12.62%	0.255%
134	9.610	9.593	9.631	VV	16794	324848	20.92%	0.423%
135	9.636	9.631	9.644	VV	12965	99681	6.42%	0.130%
136	9.663	9.644	9.697	VV	17324	448858	28.91%	0.584%
137	9.711	9.697	9.731	VV	13976	264170	17.01%	0.344%
138	9.756	9.731	9.786	VV	27378	638150	41.10%	0.830%
139	9.799	9.786	9.809	VV	15813	205060	13.21%	0.267%
140	9.840	9.809	9.861	VV	22495	561951	36.19%	0.731%
141	9.886	9.861	9.905	VV	22090	448475	28.88%	0.583%

142	9.920	9.905	9.924	VV	17347	183395	11.81%	0.239%
143	9.940	9.924	9.964	VV	20368	399937	25.76%	0.520%
144	9.986	9.964	10.001	VV	14139	295441	19.03%	0.384%
145	10.025	10.001	10.055	VV	16931	449173	28.93%	0.584%
146	10.073	10.055	10.091	VV	15033	300740	19.37%	0.391%
147	10.115	10.091	10.136	VV	21796	490734	31.60%	0.638%
148	10.159	10.136	10.209	VV	102178	1549976	99.82%	2.016%
149	10.237	10.209	10.249	VV	14024	325040	20.93%	0.423%
150	10.261	10.249	10.306	VV	14347	421290	27.13%	0.548%
151	10.333	10.306	10.361	VV	14962	414170	26.67%	0.539%
152	10.373	10.361	10.382	VV	12233	154951	9.98%	0.202%
153	10.393	10.382	10.418	VV	12443	259033	16.68%	0.337%
154	10.436	10.418	10.456	VV	13848	283151	18.23%	0.368%
155	10.506	10.456	10.521	VV	18718	564875	36.38%	0.735%
156	10.549	10.521	10.576	VV	45527	887040	57.13%	1.154%
157	10.599	10.576	10.619	VV	18376	404608	26.06%	0.526%
158	10.638	10.619	10.657	VV	19477	369408	23.79%	0.481%
159	10.694	10.657	10.727	VV	20703	636755	41.01%	0.828%
160	10.740	10.727	10.761	VV	12855	244631	15.75%	0.318%
161	10.768	10.761	10.779	VV	12099	132786	8.55%	0.173%
162	10.803	10.779	10.821	VV	16266	355898	22.92%	0.463%
163	10.829	10.821	10.859	VV	14540	317147	20.42%	0.413%
164	10.899	10.859	10.937	VV	91764	1533534	98.76%	1.995%
165	10.971	10.937	10.999	VV	44426	932471	60.05%	1.213%
166	11.015	10.999	11.049	VV	15604	406922	26.21%	0.529%
167	11.056	11.049	11.059	VV	11008	63996	4.12%	0.083%
168	11.108	11.059	11.126	VV	13350	488343	31.45%	0.635%
169	11.147	11.126	11.160	VV	14165	271764	17.50%	0.354%
170	11.182	11.160	11.199	VV	14280	300665	19.36%	0.391%
171	11.226	11.199	11.258	VV	17425	532370	34.28%	0.693%
172	11.291	11.258	11.336	VV	21797	752241	48.44%	0.979%
173	11.353	11.336	11.387	VV	16955	416968	26.85%	0.542%
174	11.406	11.387	11.444	VV	15861	439058	28.28%	0.571%
175	11.459	11.444	11.482	VV	12771	265417	17.09%	0.345%
176	11.513	11.482	11.524	VV	12406	288819	18.60%	0.376%
177	11.560	11.524	11.572	VV	12993	360221	23.20%	0.469%
178	11.602	11.572	11.659	VV	71521	1338655	86.21%	1.741%
179	11.694	11.659	11.737	VV	31473	813116	52.36%	1.058%
180	11.760	11.737	11.777	VV	11353	255734	16.47%	0.333%
181	11.796	11.777	11.817	VV	11479	259547	16.71%	0.338%
182	11.833	11.817	11.839	VV	10974	140129	9.02%	0.182%
183	11.848	11.839	11.852	VV	10911	86120	5.55%	0.112%
184	11.894	11.852	11.940	VV	15378	676117	43.54%	0.880%
185	11.957	11.940	11.969	VV	11964	201868	13.00%	0.263%
186	11.998	11.969	12.021	VV	15467	409049	26.34%	0.532%
187	12.036	12.021	12.063	VV	14058	306097	19.71%	0.398%
188	12.088	12.063	12.120	VV	13664	396730	25.55%	0.516%
189	12.127	12.120	12.134	VV	10167	82671	5.32%	0.108%
190	12.154	12.134	12.184	VV	10592	303392	19.54%	0.395%
191	12.206	12.184	12.225	VV	10072	237995	15.33%	0.310%
192	12.272	12.225	12.301	VV	56176	1106086	71.23%	1.439%
193	12.322	12.301	12.368	VV	13989	450789	29.03%	0.586%
194	12.393	12.368	12.421	VV	10427	307252	19.79%	0.400%

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195	12.425	12.421	12.453	VV	8815	163312	10.52%	0.212%
196	12.476	12.453	12.493	VV	9056	205089	13.21%	0.267%
197	12.513	12.493	12.527	VV	11851	209344	13.48%	0.272%
198	12.546	12.527	12.596	VV	11180	410810	26.46%	0.534%
199	12.611	12.596	12.621	VV	9195	131202	8.45%	0.171%
200	12.653	12.621	12.669	VV	10366	276174	17.79%	0.359%
201	12.685	12.669	12.717	VV	12191	286909	18.48%	0.373%
202	12.739	12.717	12.777	VV	10389	311524	20.06%	0.405%
203	12.785	12.777	12.803	VV	7836	120444	7.76%	0.157%
204	12.850	12.803	12.871	VV	9596	344612	22.19%	0.448%
205	12.913	12.871	12.938	VV	43423	731017	47.08%	0.951%
206	12.945	12.938	12.956	VV	8594	89304	5.75%	0.116%
207	12.972	12.956	13.017	VV	8815	293847	18.92%	0.382%
208	13.031	13.017	13.047	VV	7308	126229	8.13%	0.164%
209	13.060	13.047	13.082	VV	7349	143550	9.24%	0.187%
210	13.089	13.082	13.112	VV	6304	109189	7.03%	0.142%
211	13.131	13.112	13.146	VV	6271	125254	8.07%	0.163%
212	13.166	13.146	13.184	VV	7634	158758	10.22%	0.207%
213	13.195	13.184	13.219	VV	7117	141154	9.09%	0.184%
214	13.236	13.219	13.246	VV	6396	99234	6.39%	0.129%
215	13.266	13.246	13.288	VV	7995	171893	11.07%	0.224%
216	13.306	13.288	13.318	VV	7872	125452	8.08%	0.163%
217	13.342	13.318	13.378	VV	22536	461153	29.70%	0.600%
218	13.399	13.378	13.454	VV	19152	445796	28.71%	0.580%
219	13.458	13.454	13.486	VV	5620	99903	6.43%	0.130%
220	13.525	13.486	13.557	VV	27249	502987	32.39%	0.654%
221	13.577	13.557	13.617	VV	6807	212267	13.67%	0.276%
222	13.628	13.617	13.651	VV	5138	99150	6.39%	0.129%
223	13.660	13.651	13.677	VV	4599	69254	4.46%	0.090%
224	13.692	13.677	13.714	VV	4695	96267	6.20%	0.125%
225	13.754	13.714	13.782	VV	6654	208839	13.45%	0.272%
226	13.802	13.782	13.822	VV	5215	115274	7.42%	0.150%
227	13.834	13.822	13.853	VV	4467	79164	5.10%	0.103%
228	13.869	13.853	13.886	VV	4512	83530	5.38%	0.109%
229	13.906	13.886	13.931	VV	5052	124101	7.99%	0.161%
230	13.948	13.931	13.985	VV	5359	149739	9.64%	0.195%
231	14.005	13.985	14.017	VV	4415	78310	5.04%	0.102%
232	14.020	14.017	14.044	VV	4168	63499	4.09%	0.083%
233	14.058	14.044	14.081	VV	3883	78537	5.06%	0.102%
234	14.111	14.081	14.149	VV	18488	321885	20.73%	0.419%
235	14.171	14.149	14.185	VV	4078	78555	5.06%	0.102%
236	14.200	14.185	14.217	VV	3463	61855	3.98%	0.080%
237	14.227	14.217	14.251	VV	3133	58756	3.78%	0.076%
238	14.259	14.251	14.278	VV	2751	43579	2.81%	0.057%
239	14.342	14.278	14.370	VV	4092	176944	11.40%	0.230%
240	14.377	14.370	14.392	VV	2955	37342	2.40%	0.049%
241	14.403	14.392	14.430	VV	2974	62490	4.02%	0.081%
242	14.445	14.430	14.459	VV	2790	46536	3.00%	0.061%
243	14.476	14.459	14.484	VV	3286	45675	2.94%	0.059%
244	14.500	14.484	14.522	VV	3471	71224	4.59%	0.093%
245	14.528	14.522	14.559	VV	2888	56518	3.64%	0.074%
246	14.562	14.559	14.584	VV	2294	33366	2.15%	0.043%

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247	14.590	14.584	14.608	VV	2376	32923	2.12%	0.043%
248	14.623	14.608	14.645	VV	2575	48504	3.12%	0.063%
249	14.673	14.645	14.707	VV	10541	179778	11.58%	0.234%
250	14.736	14.707	14.754	VV	2291	58818	3.79%	0.077%
251	14.767	14.754	14.780	VV	2063	31343	2.02%	0.041%
252	14.799	14.780	14.817	VV	2496	49835	3.21%	0.065%
253	14.829	14.817	14.852	VV	2340	42630	2.75%	0.055%
254	14.869	14.852	14.907	VV	1949	59597	3.84%	0.078%
255	14.926	14.907	14.939	VV	1657	29684	1.91%	0.039%
256	14.954	14.939	14.979	VV	1826	38807	2.50%	0.050%
257	15.009	14.979	15.042	VV	4745	104489	6.73%	0.136%
258	15.065	15.042	15.089	VV	1708	40718	2.62%	0.053%
259	15.104	15.089	15.129	VV	1398	27949	1.80%	0.036%
260	15.145	15.129	15.154	VV	1203	16526	1.06%	0.021%
261	15.214	15.154	15.242	VV	6067	135182	8.71%	0.176%
262	15.257	15.242	15.284	VV	1398	28855	1.86%	0.038%
263	15.299	15.284	15.338	VV	1159	30962	1.99%	0.040%
264	15.349	15.338	15.373	VV	868	16558	1.07%	0.022%
265	15.408	15.373	15.437	VV	889	30031	1.93%	0.039%
266	15.459	15.437	15.484	VV	1106	23621	1.52%	0.031%
267	15.489	15.484	15.510	VV	591	7777	0.50%	0.010%
268	15.526	15.510	15.532	VV	584	6746	0.43%	0.009%
269	15.550	15.532	15.564	VV	714	11588	0.75%	0.015%
270	15.593	15.564	15.619	VV	2175	43280	2.79%	0.056%
271	15.631	15.619	15.676	VV	1265	29433	1.90%	0.038%
272	15.689	15.676	15.706	VV	673	9649	0.62%	0.013%
273	15.733	15.706	15.772	VV	3012	49059	3.16%	0.064%
274	15.794	15.772	15.801	VV	723	10673	0.69%	0.014%
275	15.805	15.801	15.836	VV	653	9030	0.58%	0.012%
276	15.850	15.836	15.884	VV	236	4292	0.28%	0.006%
277	15.916	15.884	15.927	PV	247	4001	0.26%	0.005%
278	15.959	15.927	15.991	VV	289	7421	0.48%	0.010%
279	16.009	15.991	16.075	VV	375	10549	0.68%	0.014%
280	16.082	16.075	16.086	VV	148	673	0.04%	0.001%
281	16.105	16.086	16.121	VV	266	4214	0.27%	0.005%
282	16.125	16.121	16.137	VV	169	1012	0.07%	0.001%
283	16.168	16.137	16.175	VV	287	3847	0.25%	0.005%
284	16.196	16.175	16.211	VV	422	6245	0.40%	0.008%
285	16.233	16.211	16.263	VV	1675	23173	1.49%	0.030%
286	16.267	16.263	16.271	VV	107	388	0.02%	0.001%
287	16.294	16.271	16.315	VV	282	3960	0.26%	0.005%
288	16.325	16.315	16.345	VV	110	1326	0.09%	0.002%
289	16.374	16.345	16.393	VV	417	6424	0.41%	0.008%
290	16.413	16.393	16.442	VV	418	7372	0.47%	0.010%
291	16.449	16.442	16.487	VV	155	1797	0.12%	0.002%
292	16.533	16.487	16.544	PV	183	3319	0.21%	0.004%
293	16.553	16.544	16.567	VV	213	2183	0.14%	0.003%
294	16.603	16.567	16.644	VV	513	11467	0.74%	0.015%
295	16.717	16.644	16.751	VV	1483	32417	2.09%	0.042%
296	16.791	16.751	16.821	VV	763	17367	1.12%	0.023%
297	16.840	16.821	16.844	VV	245	2428	0.16%	0.003%
298	16.847	16.844	16.854	VV	261	904	0.06%	0.001%
299	16.886	16.854	16.923	VV	300	7869	0.51%	0.010%

					rteres			
300	16.932	16.923	16.945	VV	201	1779	0.11%	0.002%
301	16.950	16.945	16.970	VV	175	1315	0.08%	0.002%
302	16.975	16.970	16.986	PV	140	668	0.04%	0.001%
303	16.990	16.986	17.029	VV	137	1856	0.12%	0.002%
304	17.034	17.029	17.037	VV	117	345	0.02%	0.000%
305	17.043	17.037	17.049	VV	162	829	0.05%	0.001%
306	17.080	17.049	17.114	VV	647	11938	0.77%	0.016%
307	17.141	17.114	17.162	VV	428	8255	0.53%	0.011%
308	17.183	17.162	17.233	VV	1482	21995	1.42%	0.029%
309	17.260	17.233	17.301	VBA	1741	26157	1.68%	0.034%
			Sum of corrected areas:			76873761		

FF102124.M Sat Oct 26 04:47:15 2024

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: CHEM02

ProjectID: NJ Soil PT

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

Calibration Sequence : FF102124		Test : Diesel Range Organics	
Concentration (PPM)	**Area Count**	**Reference Factor**	**File ID**
1000	140350994	140351	FF014706.D
500	71252825	142506	FF014707.D
200	29731497	148657	FF014708.D
100	14736133	147361	FF014709.D
50	7756416	155128	FF014710.D

AVG RF : 146801 **% RSD : 3.93** **AVG RT : 14.9988**

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014706.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 15:19
Operator : YP\AJ
Sample : 100 TRPH STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
100 TRPH STD

Integration File: autoint1.e
Quant Time: Oct 21 16:33:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Mon Oct 21 16:33:03 2024
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...	15.004	12616850	97.686 ug/ml
	Target Compounds			
1)	N-OCTANE	2.043	13303881	97.457 ug/ml
2)	N-DECANE	4.565	13643519	97.480 ug/ml
3)	N-DODECANE	6.728	13881024	97.606 ug/ml
4)	N-TETRADECANE	8.553	14019933	97.646 ug/ml
5)	N-HEXADECANE	10.158	14084820	97.688 ug/ml
6)	N-OCTADECANE	11.600	14358713	97.581 ug/ml
7)	N-EICOSANE	12.909	14522471	97.553 ug/ml
8)	N-DOCOSANE	14.105	14098837	97.674 ug/ml
10)	N-TETRACOSANE	15.209	14060252	97.641 ug/ml
11)	N-HEXACOSANE	16.228	13967032	97.601 ug/ml
12)	N-OCTACOSANE	17.177	13714393	97.282 ug/ml
13)	N-TRIACONTANE	18.063	13703234	96.955 ug/ml
14)	N-DOTRIACONTANE	18.895	13274210	96.422 ug/ml
15)	N-TETRATRIACONTANE	19.677	12732685	96.508 ug/ml
16)	N-HEXATRIACONTANE	20.415	11728155	92.256 ug/ml
17)	N-OCTATRIACONTANE	21.148	10778979	96.559 ug/ml
18)	N-TETRACONTANE	22.054	9894843	96.655 ug/ml

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

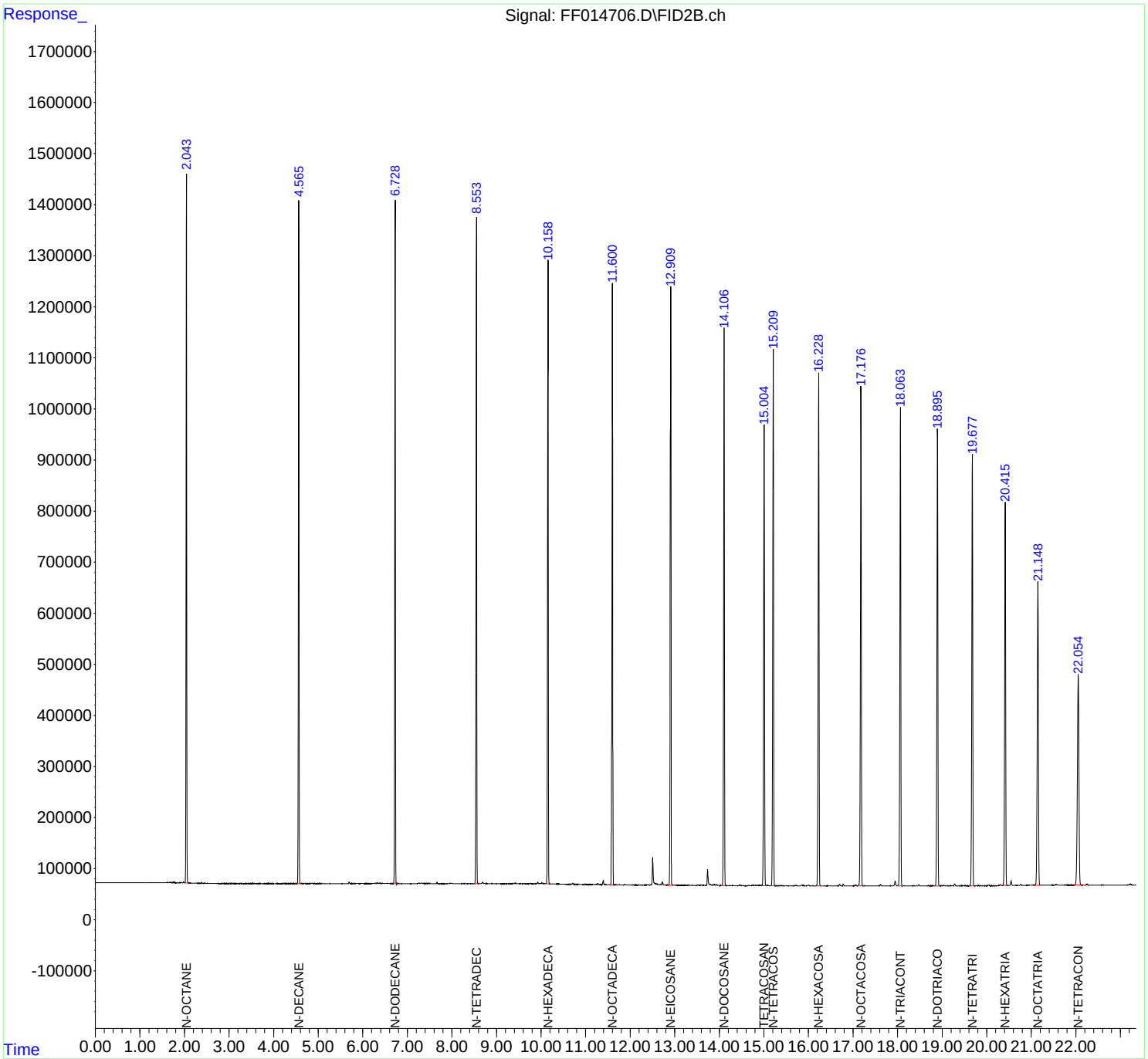
Quantitation Report (QT Reviewed)

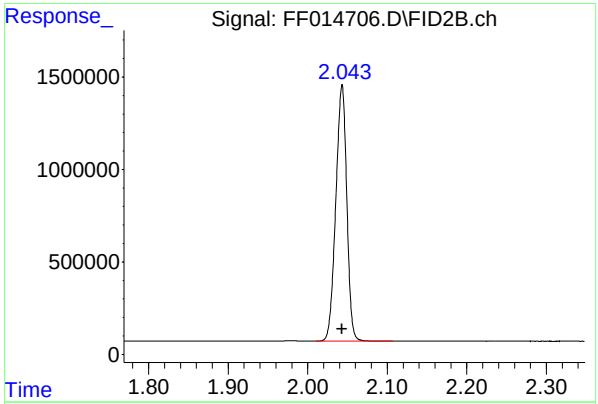
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014706.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 15:19
Operator : YP\AJ
Sample : 100 TRPH STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
100 TRPH STD

Integration File: autoint1.e
Quant Time: Oct 21 16:33:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Mon Oct 21 16:33:03 2024
Response via : Initial Calibration
Integrator: ChemStation

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

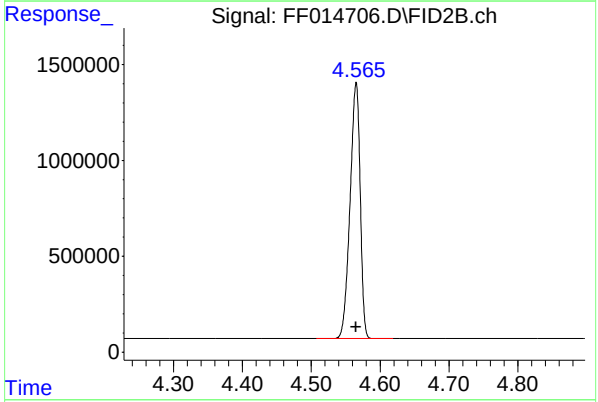




#1 N-OCTANE

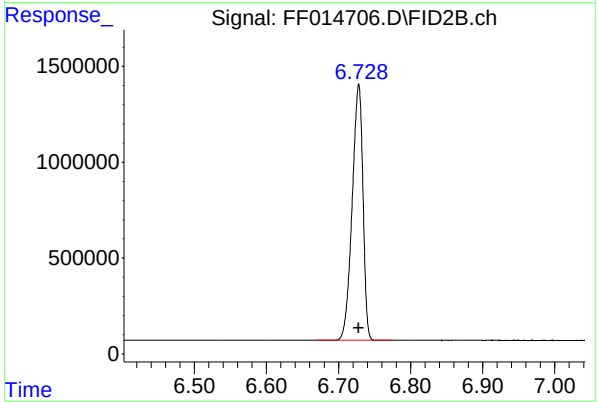
R.T.: 2.043 min
Delta R.T.: 0.000 min
Response: 13303881
Conc: 97.46 ug/ml

Instrument :
FID_F
ClientSampleId :
100 TRPH STD



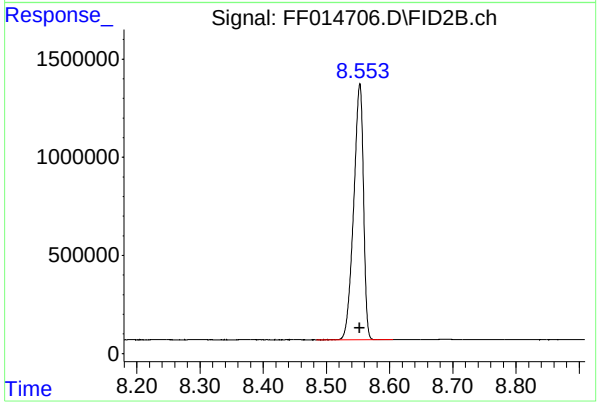
#2 N-DECANE

R.T.: 4.565 min
Delta R.T.: 0.000 min
Response: 13643519
Conc: 97.48 ug/ml



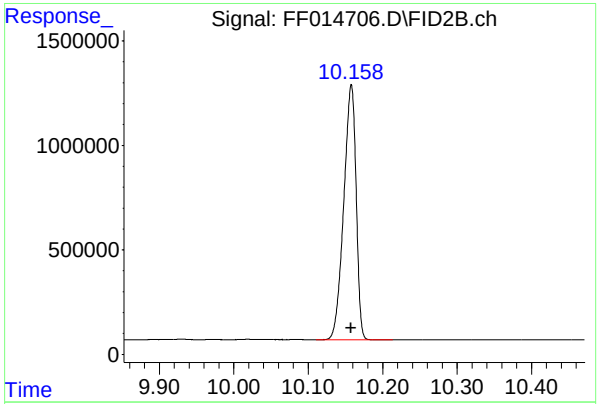
#3 N-DODECANE

R.T.: 6.728 min
Delta R.T.: 0.000 min
Response: 13881024
Conc: 97.61 ug/ml



#4 N-TETRADECANE

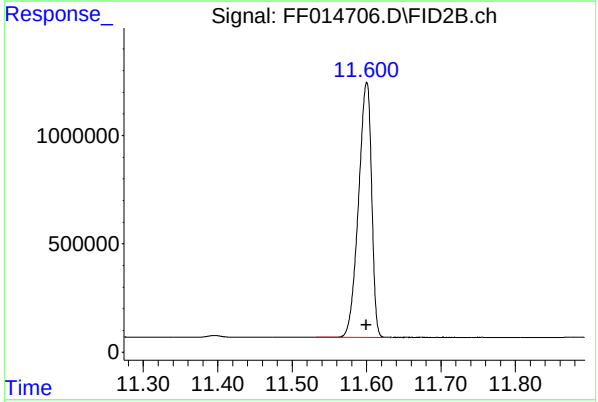
R.T.: 8.553 min
Delta R.T.: 0.000 min
Response: 14019933
Conc: 97.65 ug/ml



#5 N-HEXADECANE

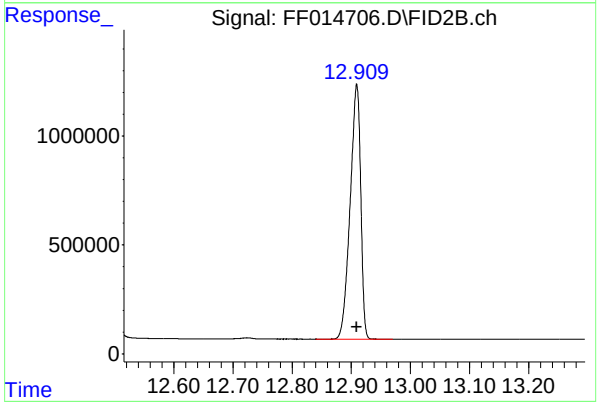
R.T.: 10.158 min
Delta R.T.: 0.000 min
Response: 14084820
Conc: 97.69 ug/ml

Instrument :
FID_F
ClientSampleId :
100 TRPH STD



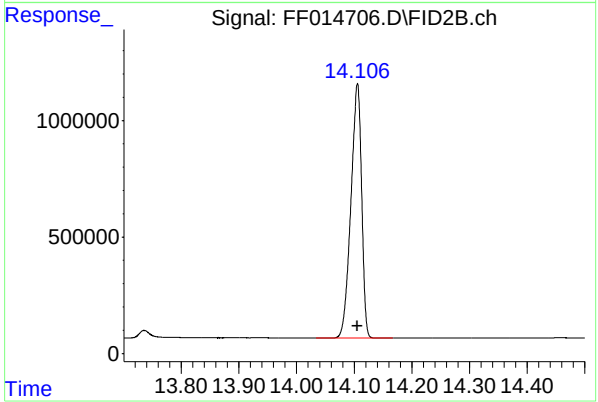
#6 N-OCTADECANE

R.T.: 11.600 min
Delta R.T.: 0.000 min
Response: 14358713
Conc: 97.58 ug/ml



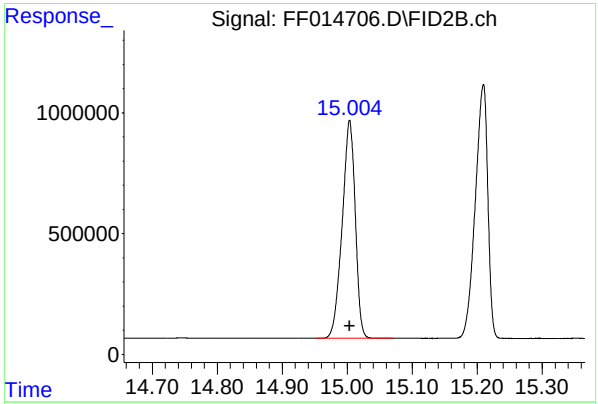
#7 N-EICOSANE

R.T.: 12.909 min
Delta R.T.: 0.000 min
Response: 14522471
Conc: 97.55 ug/ml



#8 N-DOCOSANE

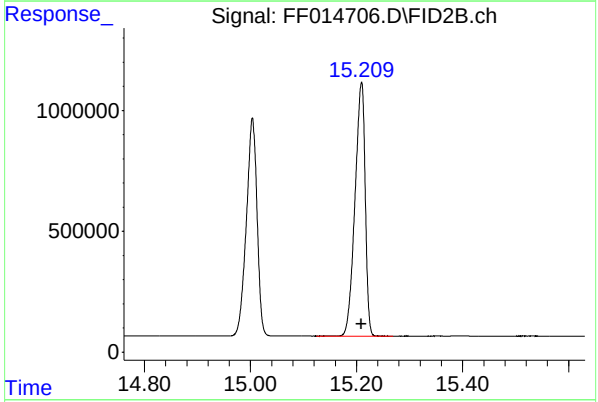
R.T.: 14.105 min
Delta R.T.: 0.000 min
Response: 14098837
Conc: 97.67 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

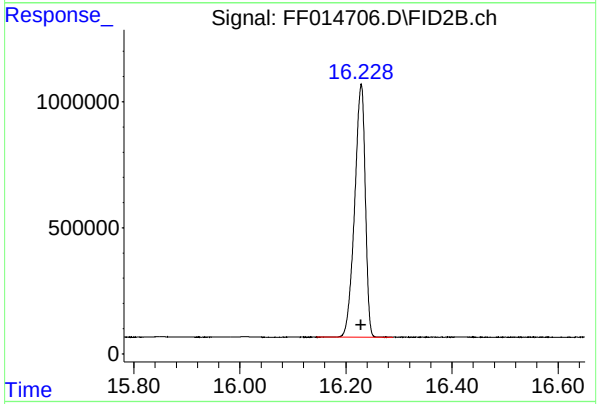
R.T.: 15.004 min
Delta R.T.: 0.000 min
Response: 12616850
Conc: 97.69 ug/ml

Instrument :
FID_F
ClientSampleId :
100 TRPH STD



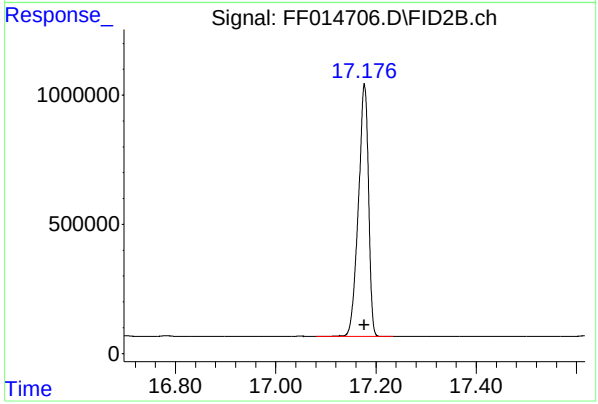
#10 N-TETRACOSANE

R.T.: 15.209 min
Delta R.T.: 0.000 min
Response: 14060252
Conc: 97.64 ug/ml



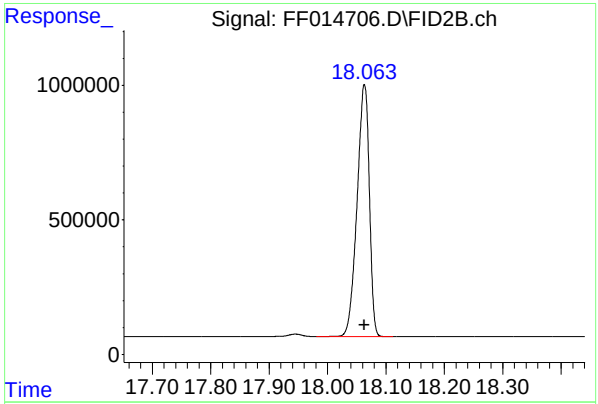
#11 N-HEXACOSANE

R.T.: 16.228 min
Delta R.T.: 0.000 min
Response: 13967032
Conc: 97.60 ug/ml



#12 N-OCTACOSANE

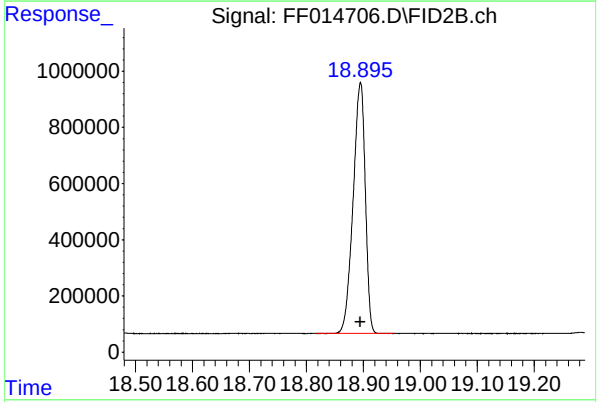
R.T.: 17.177 min
Delta R.T.: 0.000 min
Response: 13714393
Conc: 97.28 ug/ml



#13 N-TRIACONTANE

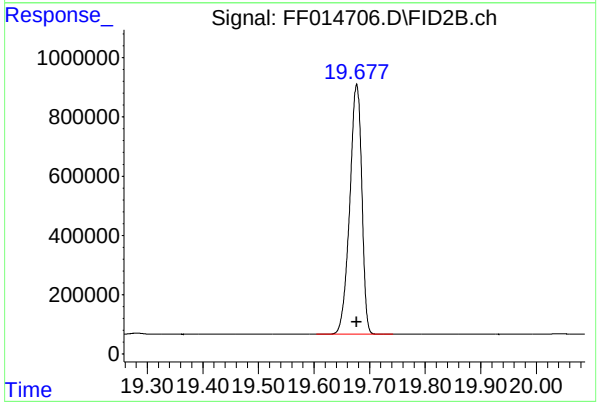
R.T.: 18.063 min
Delta R.T.: 0.000 min
Response: 13703234
Conc: 96.96 ug/ml

Instrument :
FID_F
ClientSampleId :
100 TRPH STD



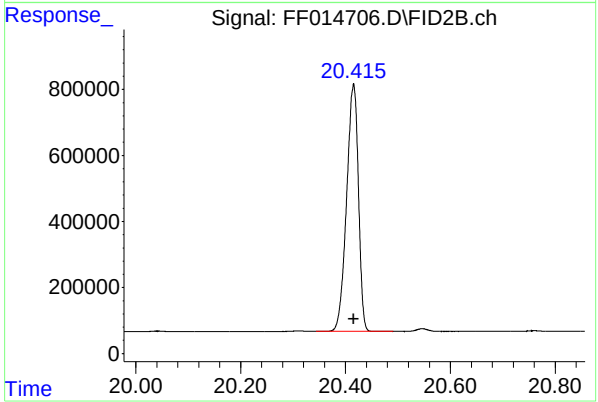
#14 N-DOTRIACONTANE

R.T.: 18.895 min
Delta R.T.: 0.000 min
Response: 13274210
Conc: 96.42 ug/ml



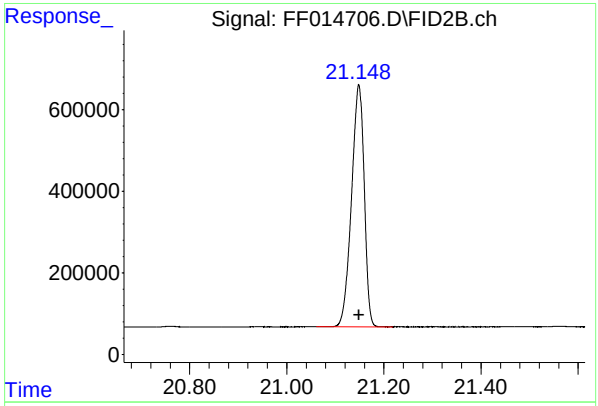
#15 N-TETRATRIACONTANE

R.T.: 19.677 min
Delta R.T.: 0.000 min
Response: 12732685
Conc: 96.51 ug/ml



#16 N-HEXATRIACONTANE

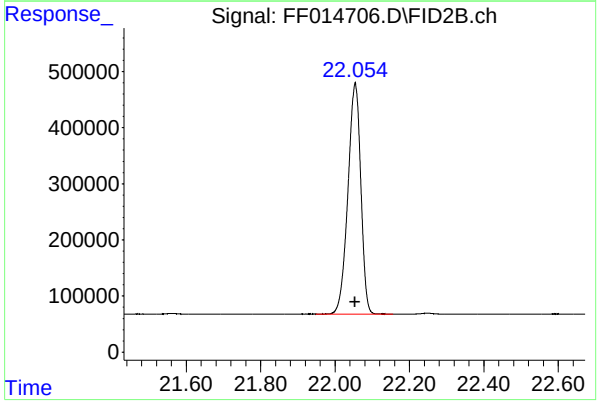
R.T.: 20.415 min
Delta R.T.: 0.000 min
Response: 11728155
Conc: 92.26 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.148 min
Delta R.T.: 0.000 min
Response: 10778979
Conc: 96.56 ug/ml

Instrument :
FID_F
ClientSampleId :
100 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.054 min
Delta R.T.: 0.000 min
Response: 9894843
Conc: 96.66 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014706.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 15:19
Sample : 100 TRPH STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.043	2.010	2.107	BB	1395961	13303881	91.61%	5.581%
2	4.565	4.507	4.619	BB	1341281	13643519	93.95%	5.723%
3	6.728	6.669	6.775	BB	1330027	13881024	95.58%	5.823%
4	8.553	8.484	8.605	BB	1298555	14019933	96.54%	5.881%
5	10.158	10.110	10.214	BB	1220871	14084820	96.99%	5.908%
6	11.600	11.532	11.635	BB	1181144	14358713	98.87%	6.023%
7	12.909	12.840	12.970	BB	1171768	14522471	100.00%	6.092%
8	14.105	14.034	14.167	BB	1091851	14098837	97.08%	5.914%
9	15.004	14.952	15.070	PV	902788	12616850	86.88%	5.293%
10	15.209	15.124	15.269	BB	1048448	14060252	96.82%	5.898%
11	16.228	16.144	16.289	BB	1005857	13967032	96.18%	5.859%
12	17.177	17.080	17.234	BB	974907	13714393	94.44%	5.753%
13	18.063	17.980	18.112	VB	936741	13703234	94.36%	5.748%
14	18.895	18.817	18.952	BB	896329	13274210	91.40%	5.568%
15	19.677	19.604	19.742	BB	845219	12732685	87.68%	5.341%
16	20.415	20.344	20.490	BB	749880	11728155	80.76%	4.920%
17	21.148	21.060	21.219	BB	593991	10778979	74.22%	4.522%
18	22.054	21.949	22.155	BB	412482	9894843	68.13%	4.151%

Sum of corrected areas: 238383831

FF102124.M Tue Oct 22 01:22:37 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014707.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 15:48
Operator : YP\AJ
Sample : 50 TRPH STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 TRPH STD

Integration File: autoint1.e
Quant Time: Oct 21 16:23:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Mon Oct 21 16:22:11 2024
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...	14.999	6372635	50.000 ug/ml
	Target Compounds			
1)	N-OCTANE	2.043	6799200	50.000 ug/ml
2)	N-DECANE	4.562	6973777	50.000 ug/ml
3)	N-DODECANE	6.725	7075054	50.000 ug/ml
4)	N-TETRADECANE	8.548	7134727	50.000 ug/ml
5)	N-HEXADECANE	10.154	7147932	50.000 ug/ml
6)	N-OCTADECANE	11.596	7284916	50.000 ug/ml
7)	N-EICOSANE	12.904	7361127	50.000 ug/ml
8)	N-DOCOSANE	14.101	7131319	50.000 ug/ml
10)	N-TETRACOSANE	15.203	7111018	50.000 ug/ml
11)	N-HEXACOSANE	16.223	7063296	50.000 ug/ml
12)	N-OCTACOSANE	17.172	6969659	50.000 ug/ml
13)	N-TRIACONTANE	18.060	6976894	50.000 ug/ml
14)	N-DOTRIACONTANE	18.891	6816042	50.000 ug/ml
15)	N-TETRATRIACONTANE	19.673	6534302	50.000 ug/ml
16)	N-HEXATRIACONTANE	20.412	6429445	50.000 ug/ml
17)	N-OCTATRIACONTANE	21.144	5561666	50.000 ug/ml
18)	N-TETRACONTANE	22.050	5164176	50.000 ug/ml

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

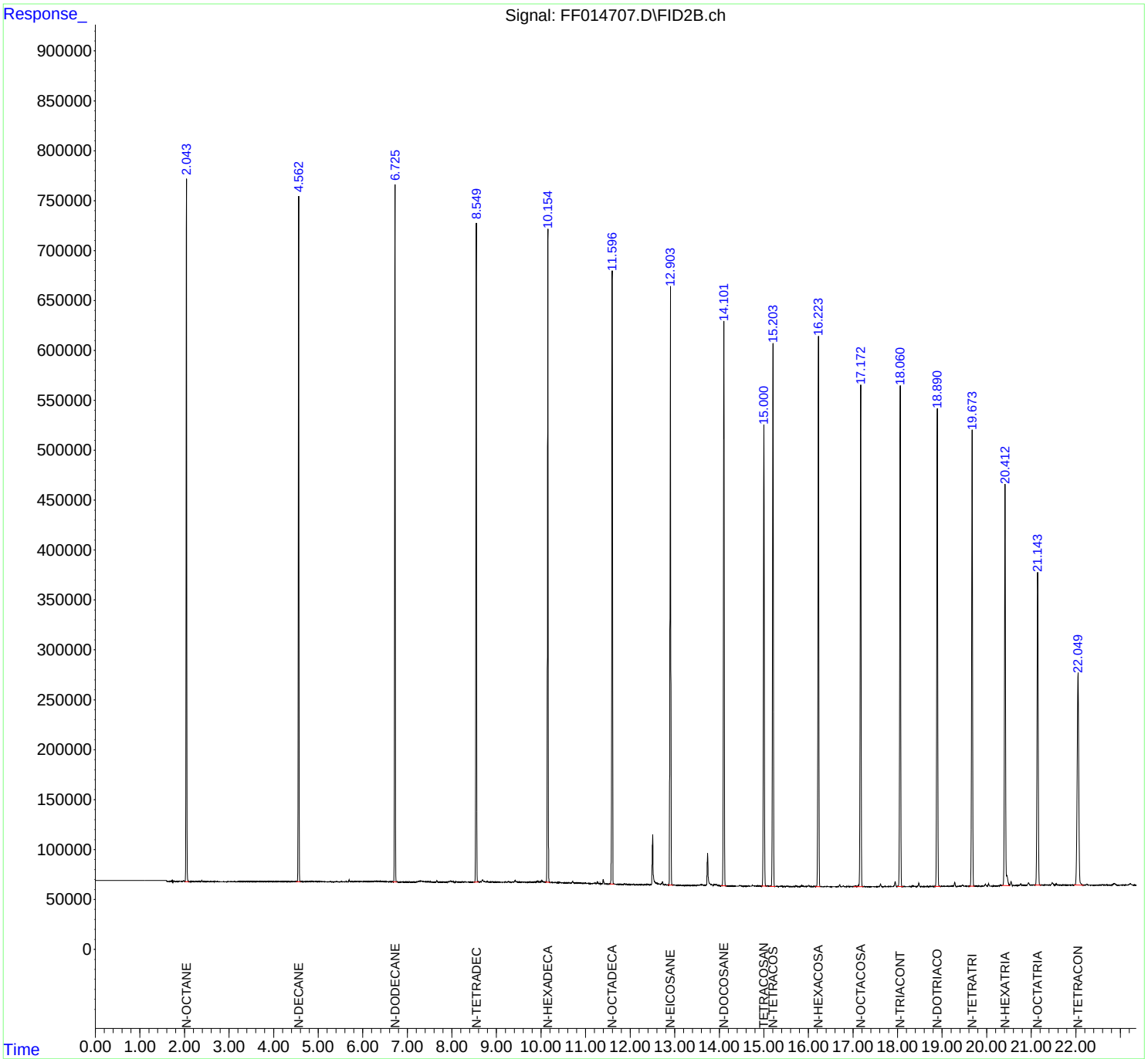
Quantitation Report (QT Reviewed)

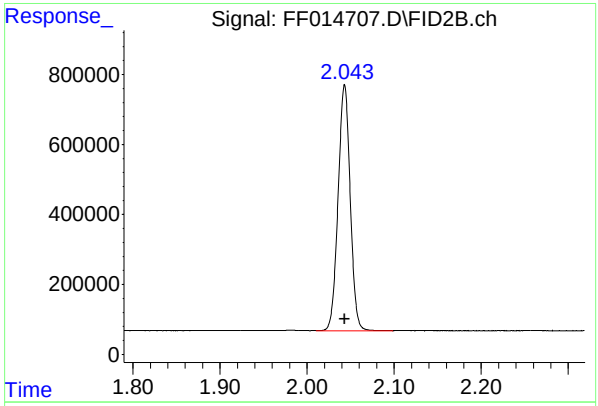
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014707.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 15:48
Operator : YP\AJ
Sample : 50 TRPH STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 TRPH STD

Integration File: autoint1.e
Quant Time: Oct 21 16:23:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Mon Oct 21 16:22:11 2024
Response via : Initial Calibration
Integrator: ChemStation

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

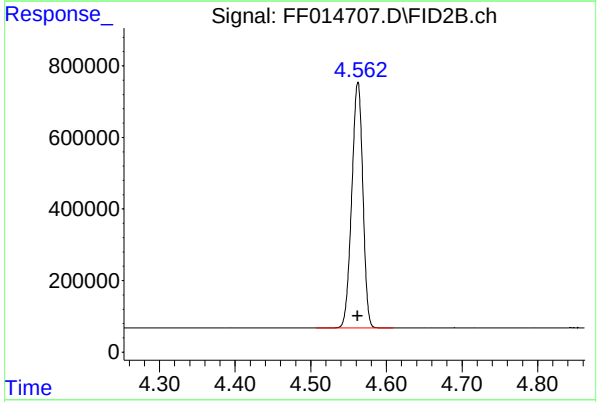




#1 N-OCTANE

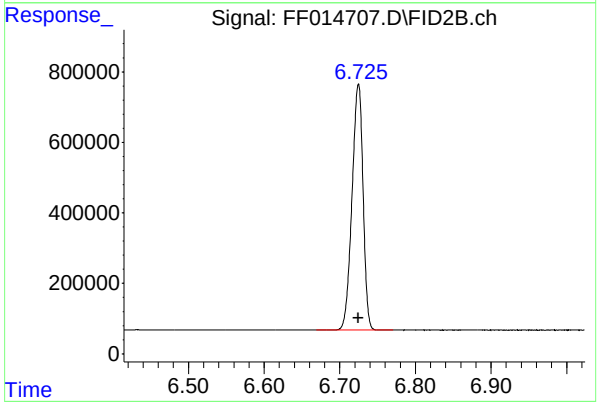
R.T.: 2.043 min
Delta R.T.: 0.000 min
Response: 6799200
Conc: 50.00 ug/ml

Instrument :
FID_F
ClientSampleId :
50 TRPH STD



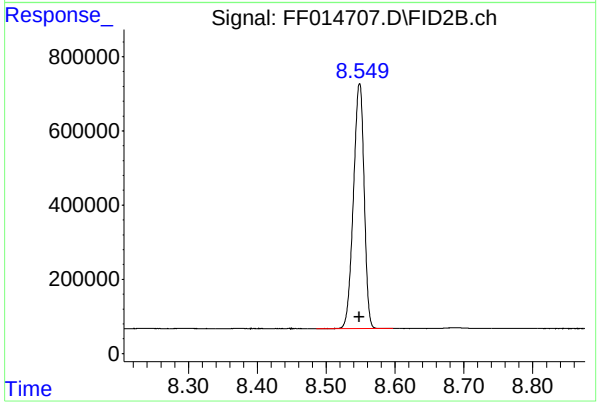
#2 N-DECANE

R.T.: 4.562 min
Delta R.T.: 0.000 min
Response: 6973777
Conc: 50.00 ug/ml



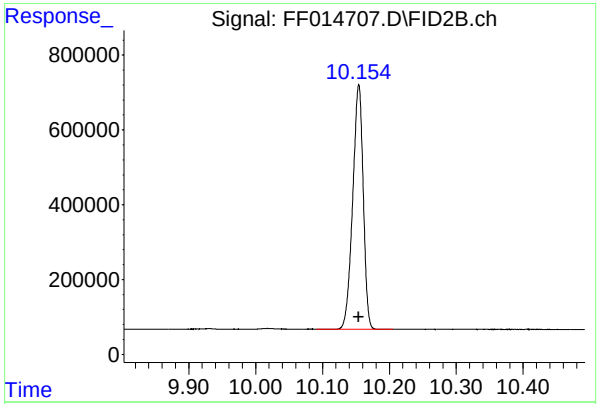
#3 N-DODECANE

R.T.: 6.725 min
Delta R.T.: 0.000 min
Response: 7075054
Conc: 50.00 ug/ml



#4 N-TETRADECANE

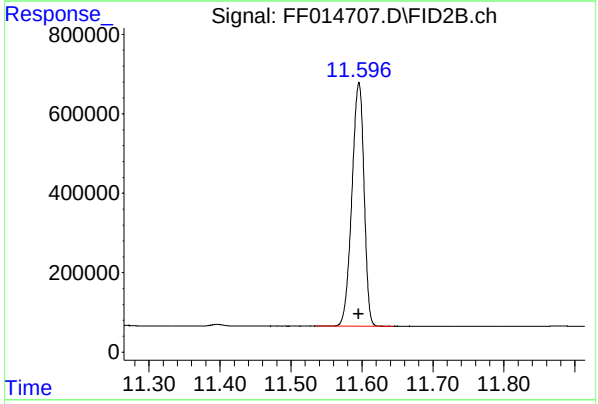
R.T.: 8.548 min
Delta R.T.: 0.000 min
Response: 7134727
Conc: 50.00 ug/ml



#5 N-HEXADECANE

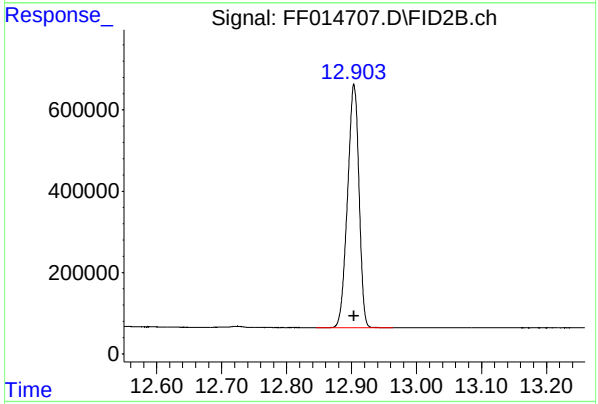
R.T.: 10.154 min
Delta R.T.: 0.000 min
Response: 7147932
Conc: 50.00 ug/ml

Instrument :
FID_F
ClientSampleId :
50 TRPH STD



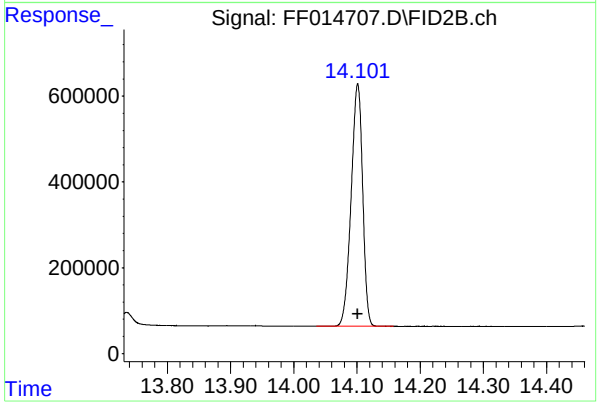
#6 N-OCTADECANE

R.T.: 11.596 min
Delta R.T.: 0.000 min
Response: 7284916
Conc: 50.00 ug/ml



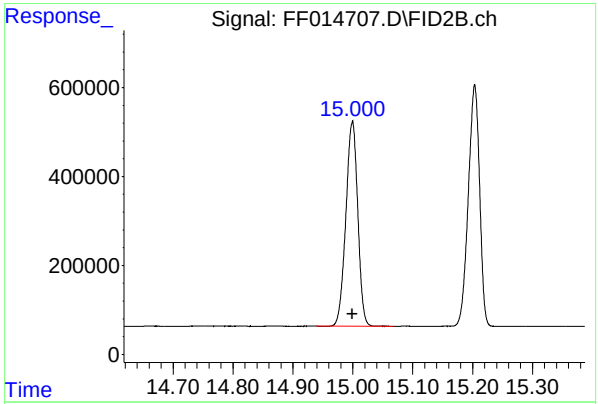
#7 N-EICOSANE

R.T.: 12.904 min
Delta R.T.: 0.000 min
Response: 7361127
Conc: 50.00 ug/ml



#8 N-DOCOSANE

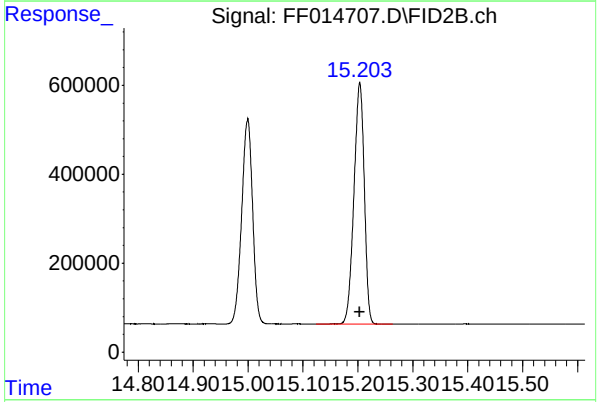
R.T.: 14.101 min
Delta R.T.: 0.000 min
Response: 7131319
Conc: 50.00 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

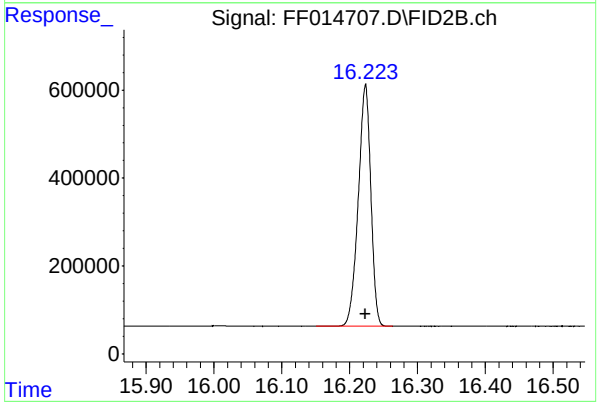
R.T.: 14.999 min
Delta R.T.: 0.000 min
Response: 6372635
Conc: 50.00 ug/ml

Instrument :
FID_F
ClientSampleId :
50 TRPH STD



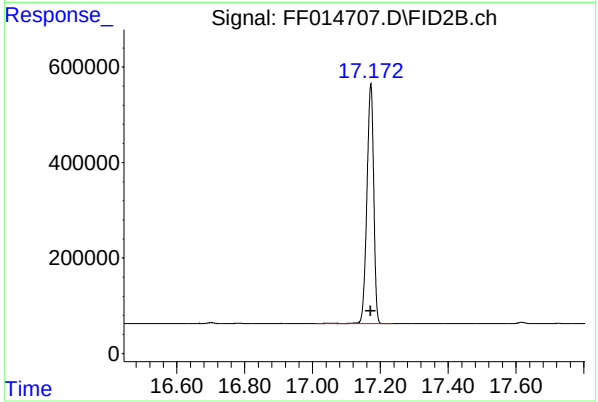
#10 N-TETRACOSANE

R.T.: 15.203 min
Delta R.T.: 0.000 min
Response: 7111018
Conc: 50.00 ug/ml



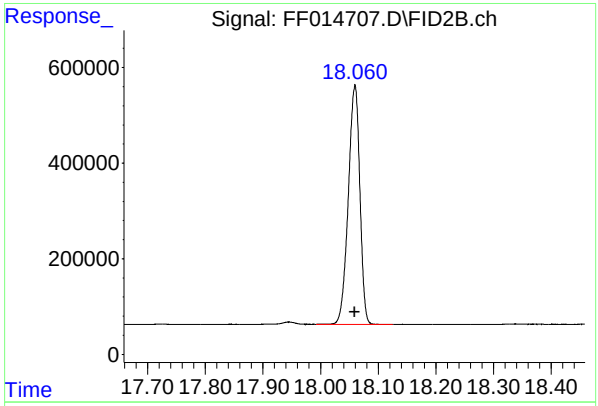
#11 N-HEXACOSANE

R.T.: 16.223 min
Delta R.T.: 0.000 min
Response: 7063296
Conc: 50.00 ug/ml



#12 N-OCTACOSANE

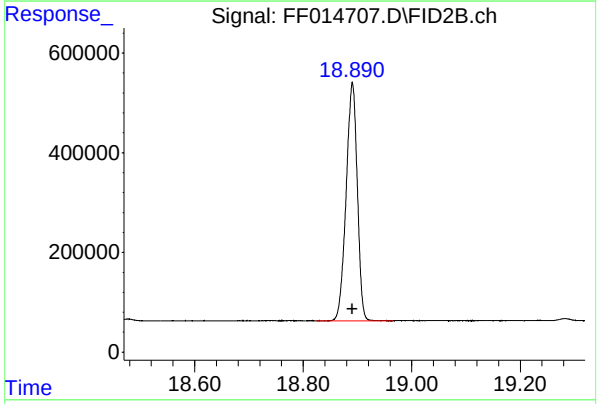
R.T.: 17.172 min
Delta R.T.: 0.000 min
Response: 6969659
Conc: 50.00 ug/ml



#13 N-TRIACONTANE

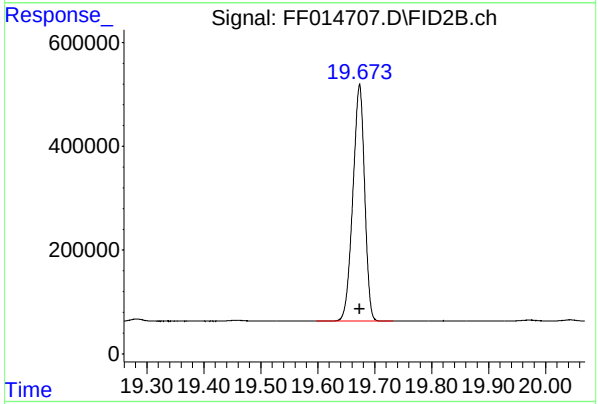
R.T.: 18.060 min
Delta R.T.: 0.000 min
Response: 6976894
Conc: 50.00 ug/ml

Instrument :
FID_F
ClientSampleId :
50 TRPH STD



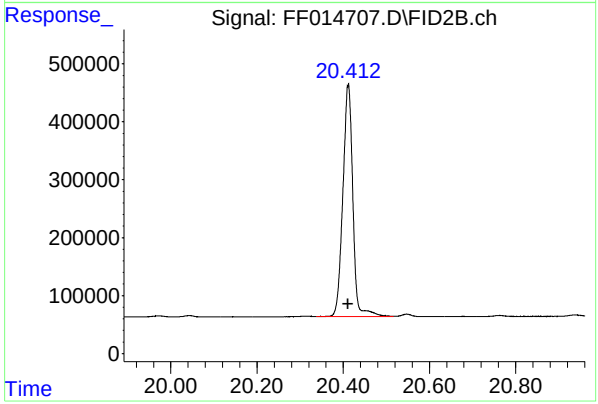
#14 N-DOTRIACONTANE

R.T.: 18.891 min
Delta R.T.: 0.000 min
Response: 6816042
Conc: 50.00 ug/ml



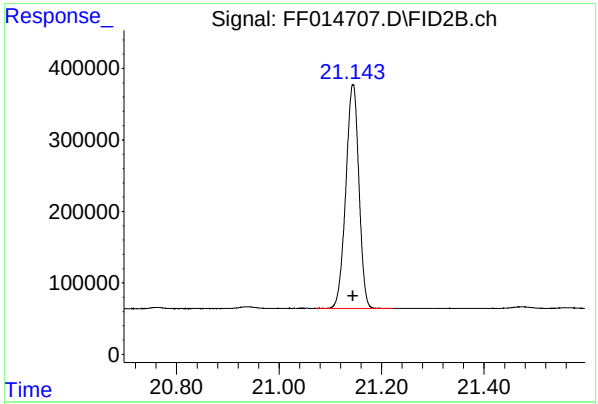
#15 N-TETRATRIACONTANE

R.T.: 19.673 min
Delta R.T.: 0.000 min
Response: 6534302
Conc: 50.00 ug/ml



#16 N-HEXATRIACONTANE

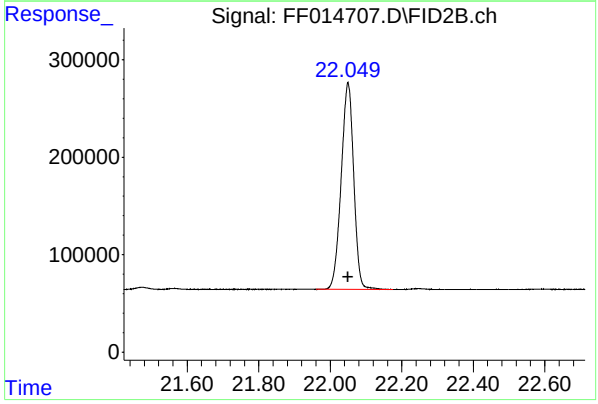
R.T.: 20.412 min
Delta R.T.: 0.000 min
Response: 6429445
Conc: 50.00 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.144 min
Delta R.T.: 0.000 min
Response: 5561666
Conc: 50.00 ug/ml

Instrument :
FID_F
ClientSampleId :
50 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.050 min
Delta R.T.: 0.000 min
Response: 5164176
Conc: 50.00 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014707
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 15:48
Sample : 50 TRPH STD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.043	2.010	2.099	BB	704590	6799200	92.37%	5.577%
2	4.562	4.507	4.609	BB	686087	6973777	94.74%	5.721%
3	6.725	6.669	6.770	BB	696934	7075054	96.11%	5.804%
4	8.548	8.485	8.597	BB	661699	7134727	96.92%	5.853%
5	10.154	10.090	10.205	BB	653362	7147932	97.10%	5.863%
6	11.596	11.535	11.644	BB	613094	7284916	98.96%	5.976%
7	12.904	12.845	12.964	BB	598410	7361127	100.00%	6.038%
8	14.101	14.035	14.157	BB	564415	7131319	96.88%	5.850%
9	14.999	14.939	15.067	BV	458792	6372635	86.57%	5.227%
10	15.203	15.124	15.264	BB	544080	7111018	96.60%	5.833%
11	16.223	16.150	16.264	BB	552356	7063296	95.95%	5.794%
12	17.172	17.010	17.237	BB	502501	6969659	94.68%	5.717%
13	18.060	17.992	18.125	BB	497945	6976894	94.78%	5.723%
14	18.891	18.824	18.965	BB	478178	6816042	92.60%	5.591%
15	19.673	19.597	19.732	BB	457889	6534302	88.77%	5.360%
16	20.412	20.337	20.515	BV	399700	6429445	87.34%	5.274%
17	21.144	21.072	21.222	BB	313305	5561666	75.55%	4.562%
18	22.050	21.960	22.175	BB	212102	5164176	70.15%	4.236%

Sum of corrected areas: 121907185

FF102124.M Tue Oct 22 01:23:05 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014708.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 16:17
Operator : YP\AJ
Sample : 20 TRPH STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 TRPH STD

Integration File: autoint1.e
Quant Time: Oct 21 16:31:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Mon Oct 21 16:31:21 2024
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...	14.998	2677025	20.490 ug/ml
Target Compounds				
1)	N-OCTANE	2.044	2810200	20.327 ug/ml
2)	N-DECANE	4.561	2879556	20.318 ug/ml
3)	N-DODECANE	6.722	2926652	20.336 ug/ml
4)	N-TETRADECANE	8.546	2956910	20.355 ug/ml
5)	N-HEXADECANE	10.152	2974744	20.396 ug/ml
6)	N-OCTADECANE	11.593	3043101	20.434 ug/ml
7)	N-EICOSANE	12.902	3083135	20.460 ug/ml
8)	N-DOCOSANE	14.099	2988496	20.466 ug/ml
10)	N-TETRACOSANE	15.202	2983551	20.478 ug/ml
11)	N-HEXACOSANE	16.221	2967515	20.491 ug/ml
12)	N-OCTACOSANE	17.170	2927837	20.490 ug/ml
13)	N-TRIACONTANE	18.057	2948736	20.550 ug/ml
14)	N-DOTRIACONTANE	18.889	2878855	20.544 ug/ml
15)	N-TETRATRIACONTANE	19.671	2755751	20.529 ug/ml
16)	N-HEXATRIACONTANE	20.410	2710131	20.524 ug/ml
17)	N-OCTATRIACONTANE	21.142	2317374	20.408 ug/ml
18)	N-TETRACONTANE	22.047	2097723	20.154 ug/ml

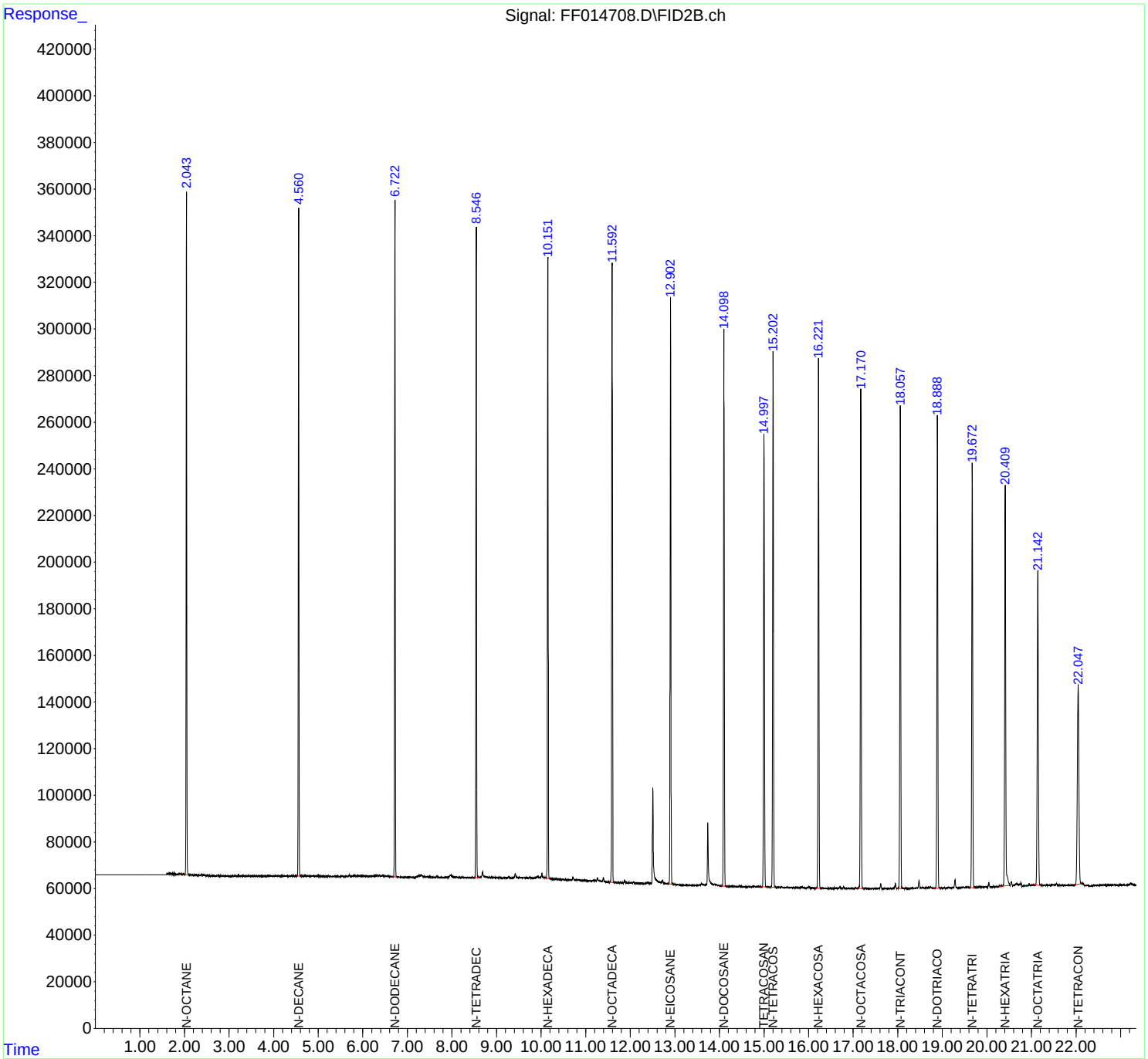
(f)=RT Delta > 1/2 Window (m)=manual int.

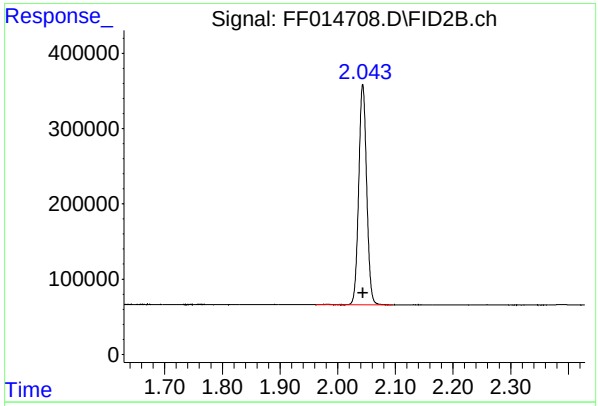
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014708.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 16:17
Operator : YP\AJ
Sample : 20 TRPH STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 TRPH STD

Integration File: autoint1.e
Quant Time: Oct 21 16:31:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Mon Oct 21 16:31:21 2024
Response via : Initial Calibration
Integrator: ChemStation

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

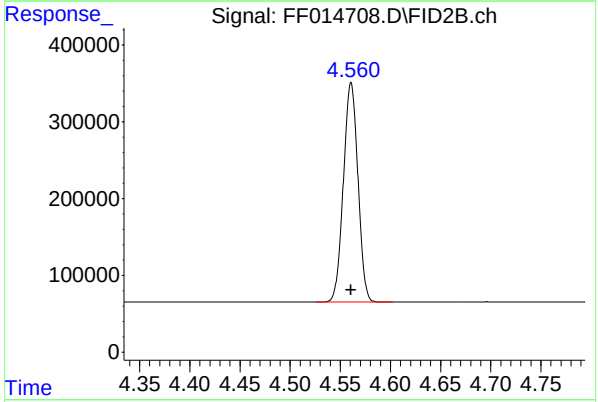




#1 N-OCTANE

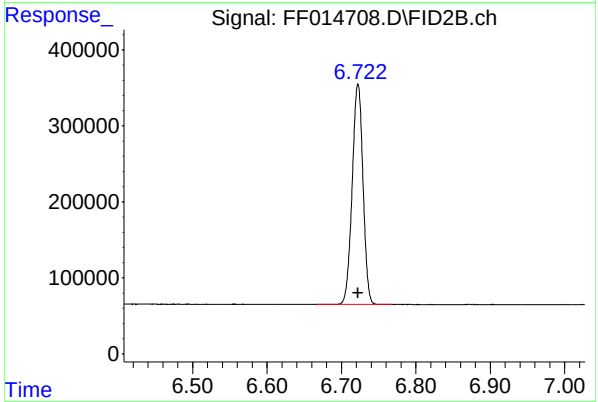
R.T.: 2.044 min
Delta R.T.: 0.000 min
Response: 2810200
Conc: 20.33 ug/ml

Instrument :
FID_F
ClientSampleId :
20 TRPH STD



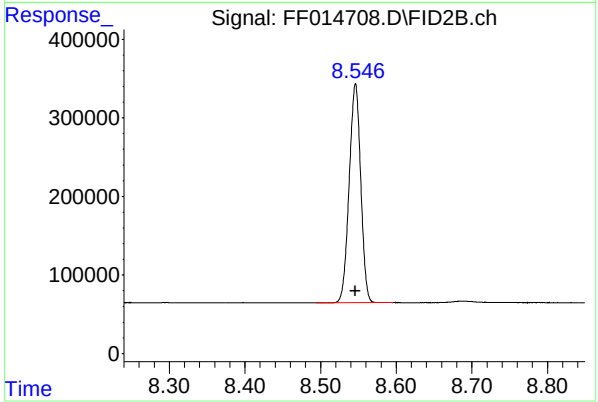
#2 N-DECANE

R.T.: 4.561 min
Delta R.T.: 0.000 min
Response: 2879556
Conc: 20.32 ug/ml



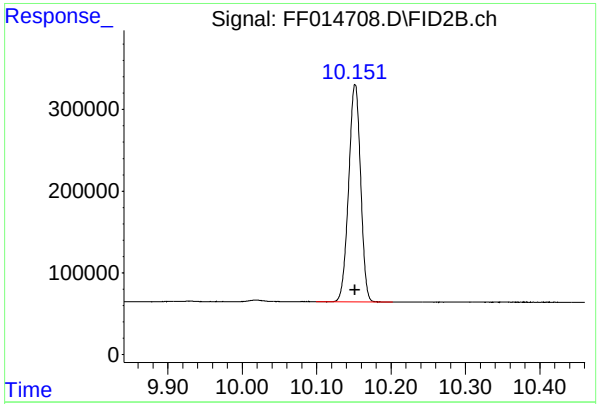
#3 N-DODECANE

R.T.: 6.722 min
Delta R.T.: 0.000 min
Response: 2926652
Conc: 20.34 ug/ml



#4 N-TETRADECANE

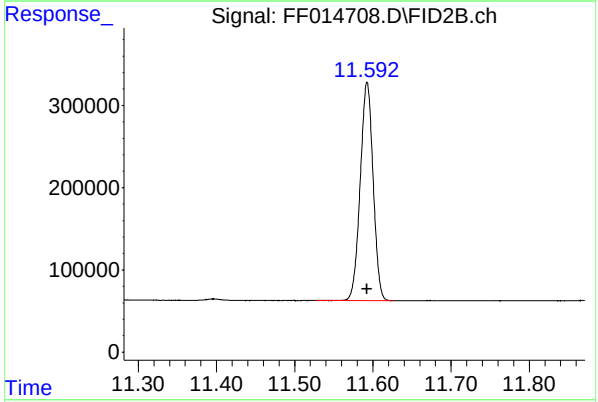
R.T.: 8.546 min
Delta R.T.: 0.000 min
Response: 2956910
Conc: 20.35 ug/ml



#5 N-HEXADECANE

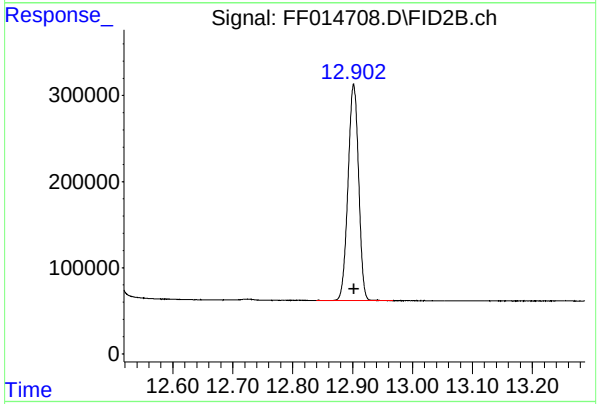
R.T.: 10.152 min
Delta R.T.: 0.000 min
Response: 2974744
Conc: 20.40 ug/ml

Instrument :
FID_F
ClientSampleId :
20 TRPH STD



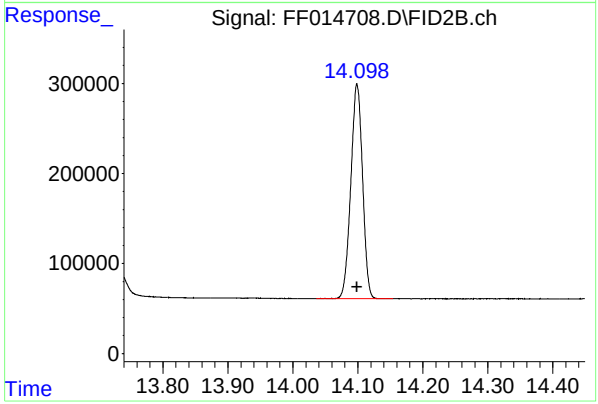
#6 N-OCTADECANE

R.T.: 11.593 min
Delta R.T.: 0.000 min
Response: 3043101
Conc: 20.43 ug/ml



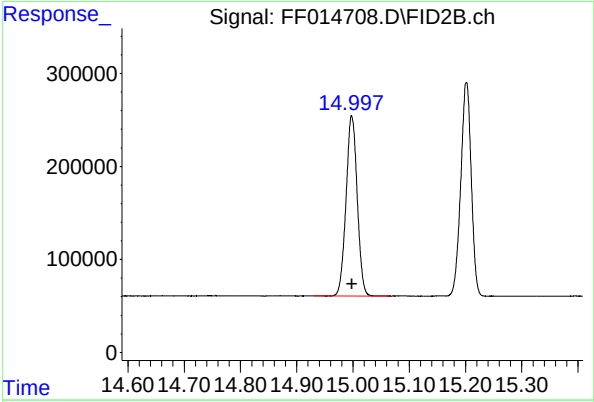
#7 N-EICOSANE

R.T.: 12.902 min
Delta R.T.: 0.000 min
Response: 3083135
Conc: 20.46 ug/ml



#8 N-DOCOSANE

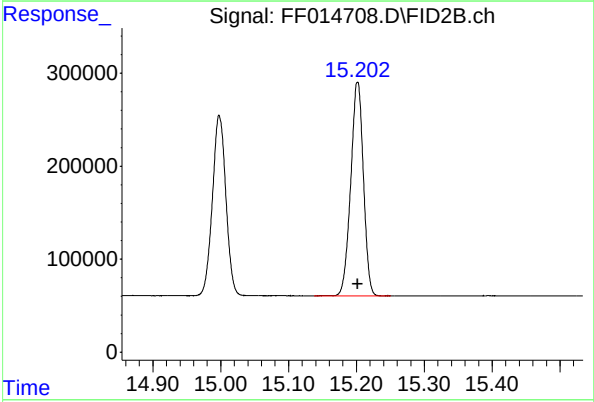
R.T.: 14.099 min
Delta R.T.: 0.000 min
Response: 2988496
Conc: 20.47 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

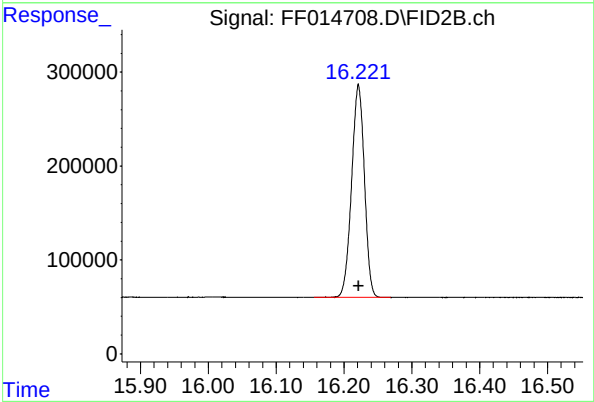
R.T.: 14.998 min
Delta R.T.: 0.000 min
Response: 2677025
Conc: 20.49 ug/ml

Instrument :
FID_F
ClientSampleId :
20 TRPH STD



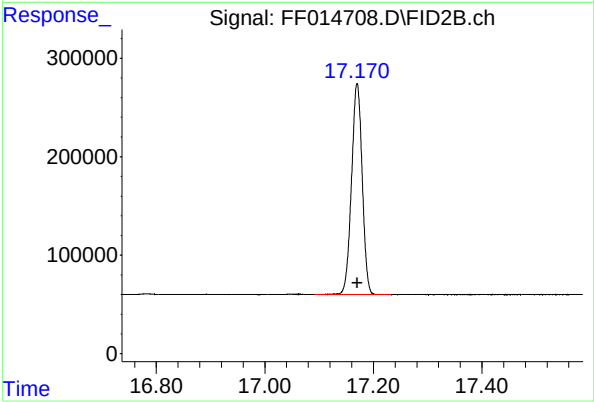
#10 N-TETRACOSANE

R.T.: 15.202 min
Delta R.T.: 0.000 min
Response: 2983551
Conc: 20.48 ug/ml



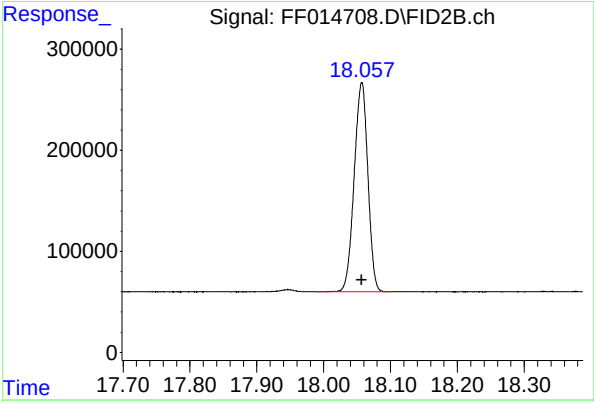
#11 N-HEXACOSANE

R.T.: 16.221 min
Delta R.T.: 0.000 min
Response: 2967515
Conc: 20.49 ug/ml



#12 N-OCTACOSANE

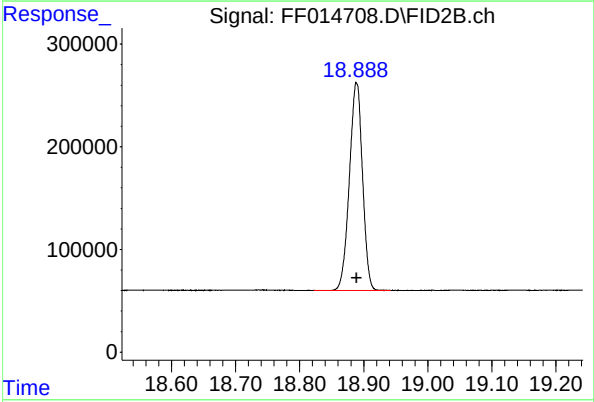
R.T.: 17.170 min
Delta R.T.: 0.000 min
Response: 2927837
Conc: 20.49 ug/ml



#13 N-TRIACONTANE

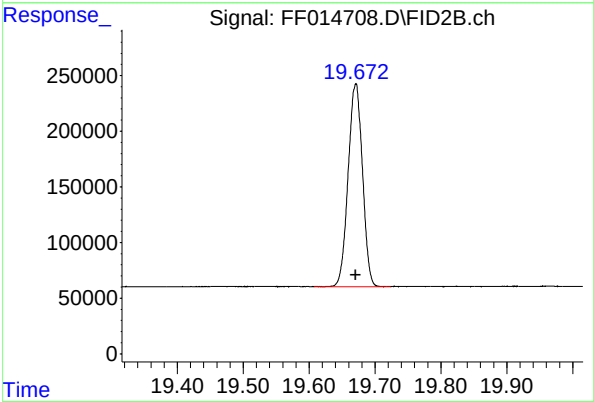
R.T.: 18.057 min
Delta R.T.: 0.000 min
Response: 2948736
Conc: 20.55 ug/ml

Instrument :
FID_F
ClientSampleId :
20 TRPH STD



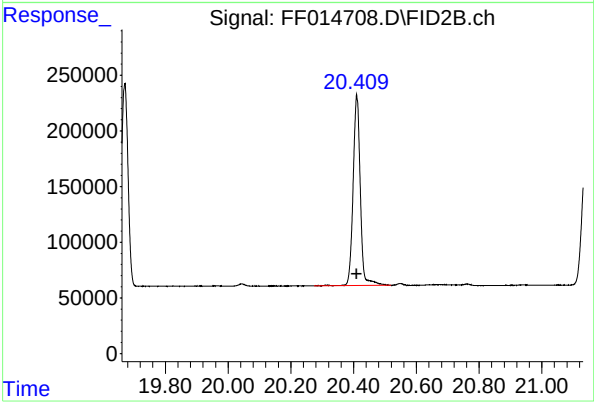
#14 N-DOTRIACONTANE

R.T.: 18.889 min
Delta R.T.: 0.000 min
Response: 2878855
Conc: 20.54 ug/ml



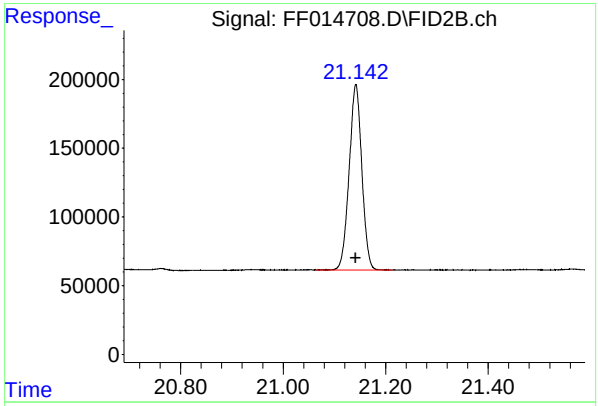
#15 N-TETRATRIACONTANE

R.T.: 19.671 min
Delta R.T.: 0.000 min
Response: 2755751
Conc: 20.53 ug/ml



#16 N-HEXATRIACONTANE

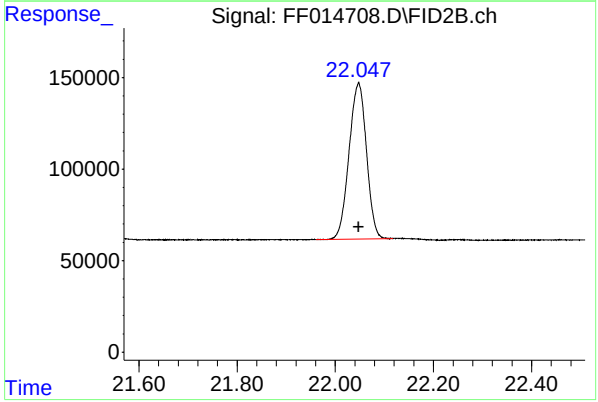
R.T.: 20.410 min
Delta R.T.: 0.000 min
Response: 2710131
Conc: 20.52 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.142 min
Delta R.T.: 0.000 min
Response: 2317374
Conc: 20.41 ug/ml

Instrument :
FID_F
ClientSampleId :
20 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.047 min
Delta R.T.: 0.000 min
Response: 2097723
Conc: 20.15 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014708.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 16:17
Sample : 20 TRPH STD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.044	1.962	2.096	BB	292677	2810200	91.15%	5.518%
2	4.561	4.526	4.602	BB	285811	2879556	93.40%	5.654%
3	6.722	6.666	6.769	BB	290445	2926652	94.92%	5.747%
4	8.546	8.494	8.596	BB	279038	2956910	95.91%	5.806%
5	10.152	10.099	10.202	BB	267113	2974744	96.48%	5.841%
6	11.593	11.527	11.626	BB	265920	3043101	98.70%	5.975%
7	12.902	12.839	12.967	BB	250833	3083135	100.00%	6.054%
8	14.099	14.036	14.154	BB	237819	2988496	96.93%	5.868%
9	14.998	14.931	15.067	BB	194003	2677025	86.83%	5.257%
10	15.202	15.137	15.251	BB	230517	2983551	96.77%	5.858%
11	16.221	16.156	16.269	BB	226569	2967515	96.25%	5.827%
12	17.170	17.091	17.232	BB	214635	2927837	94.96%	5.749%
13	18.057	17.986	18.101	BB	207388	2948736	95.64%	5.790%
14	18.889	18.822	18.942	BB	201787	2878855	93.37%	5.653%
15	19.671	19.607	19.724	BB	182282	2755751	89.38%	5.411%
16	20.410	20.274	20.519	BV	169042	2710131	87.90%	5.322%
17	21.142	21.064	21.214	BB	135315	2317374	75.16%	4.550%
18	22.047	21.961	22.117	BB	85564	2097723	68.04%	4.119%

Sum of corrected areas: 50927293

FF102124.M Tue Oct 22 01:23:26 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014709.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 16:46
Operator : YP\AJ
Sample : 10 TRPH STD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 TRPH STD

Integration File: autoint1.e
Quant Time: Oct 21 17:01:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Mon Oct 21 17:01:32 2024
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...	14.997	1322603	10.179 ug/ml
Target Compounds				
1)	N-OCTANE	2.044	1391050	10.142 ug/ml
2)	N-DECANE	4.561	1431638	10.171 ug/ml
3)	N-DODECANE	6.721	1452786	10.161 ug/ml
4)	N-TETRADECANE	8.545	1471114	10.183 ug/ml
5)	N-HEXADECANE	10.151	1470544	10.149 ug/ml
6)	N-OCTADECANE	11.592	1506346	10.177 ug/ml
7)	N-EICOSANE	12.901	1518951	10.152 ug/ml
8)	N-DOCOSANE	14.097	1479666	10.187 ug/ml
10)	N-TETRACOSANE	15.200	1479406	10.204 ug/ml
11)	N-HEXACOSANE	16.220	1470196	10.204 ug/ml
12)	N-OCTACOSANE	17.169	1455486	10.241 ug/ml
13)	N-TRIACONTANE	18.055	1481698	10.358 ug/ml
14)	N-DOTRIACONTANE	18.887	1460398	10.449 ug/ml
15)	N-TETRATRIACONTANE	19.670	1394669	10.422 ug/ml
16)	N-HEXATRIACONTANE	20.409	1350478	10.460 ug/ml
17)	N-OCTATRIACONTANE	21.142	1172155	10.371 ug/ml
18)	N-TETRACONTANE	22.047	1062736	10.283 ug/ml

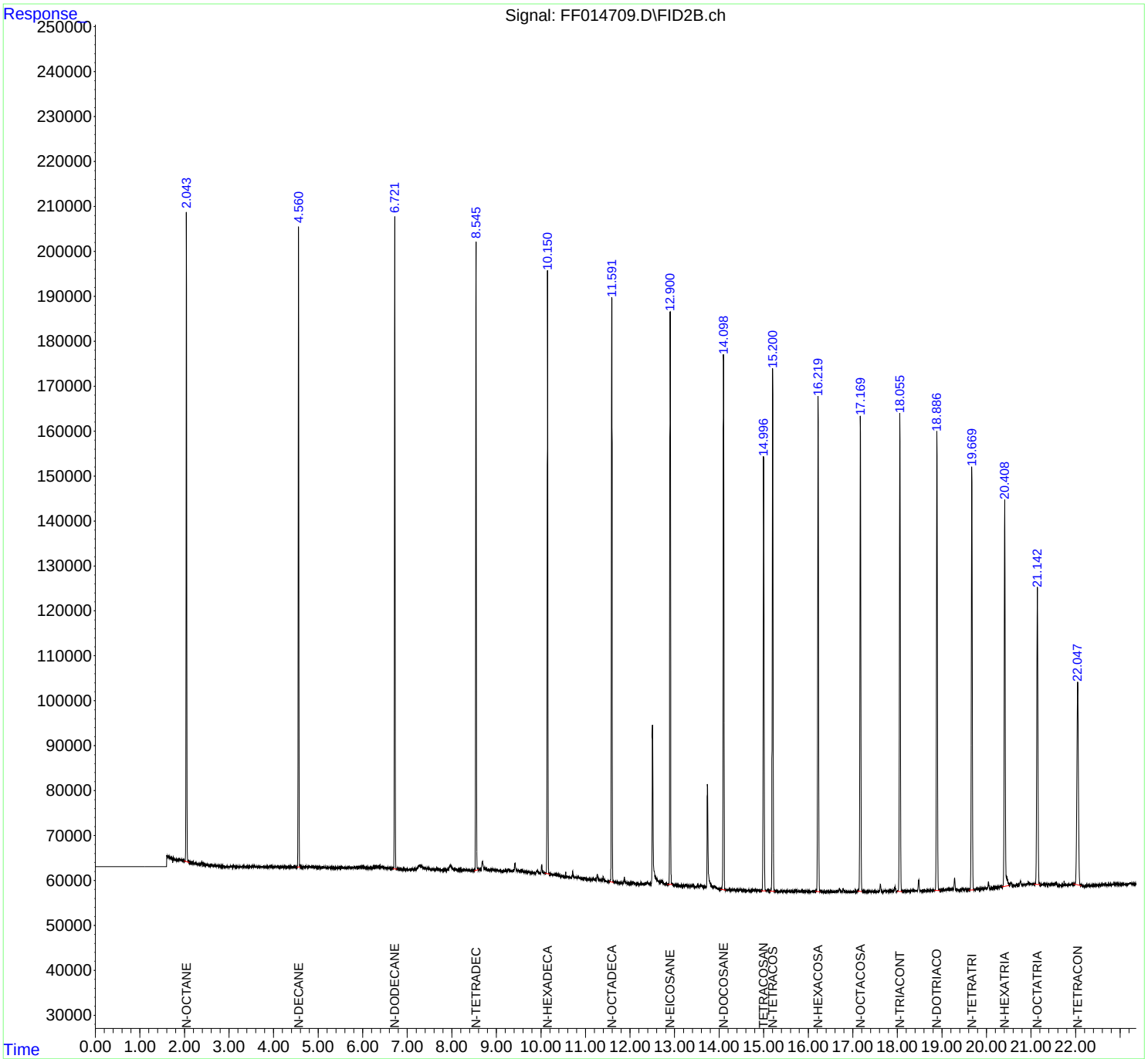
(f)=RT Delta > 1/2 Window (m)=manual int.

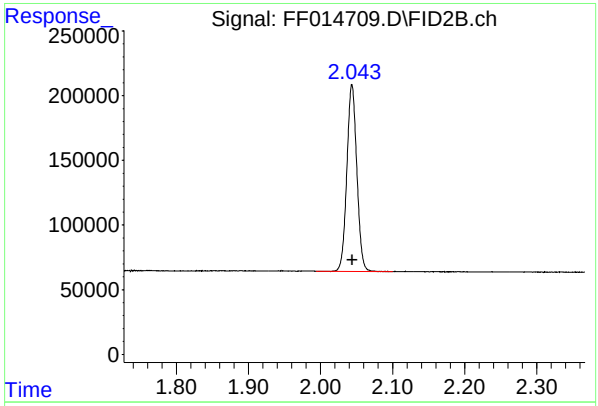
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014709.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 16:46
Operator : YP\AJ
Sample : 10 TRPH STD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 TRPH STD

Integration File: autoint1.e
Quant Time: Oct 21 17:01:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Mon Oct 21 17:01:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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

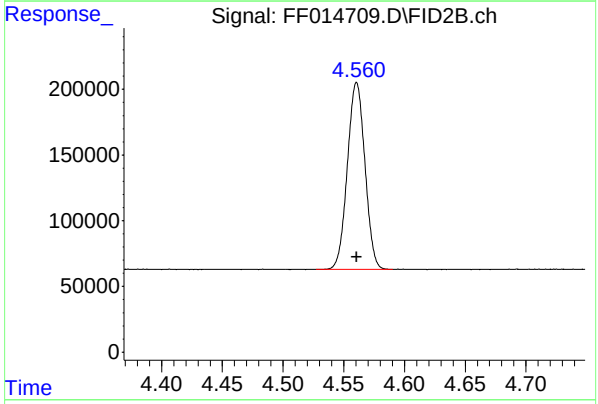




#1 N-OCTANE

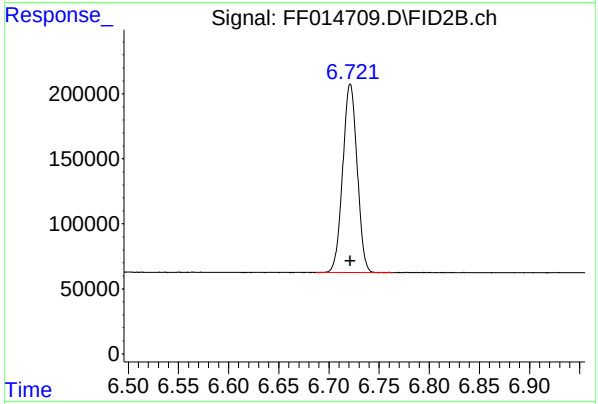
R.T.: 2.044 min
Delta R.T.: 0.000 min
Response: 1391050
Conc: 10.14 ug/ml

Instrument :
FID_F
ClientSampleId :
10 TRPH STD



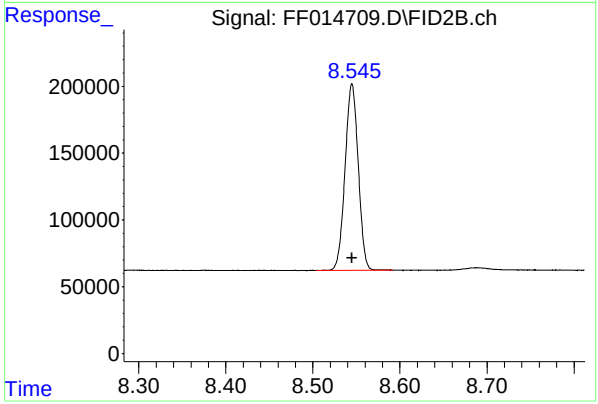
#2 N-DECANE

R.T.: 4.561 min
Delta R.T.: 0.000 min
Response: 1431638
Conc: 10.17 ug/ml



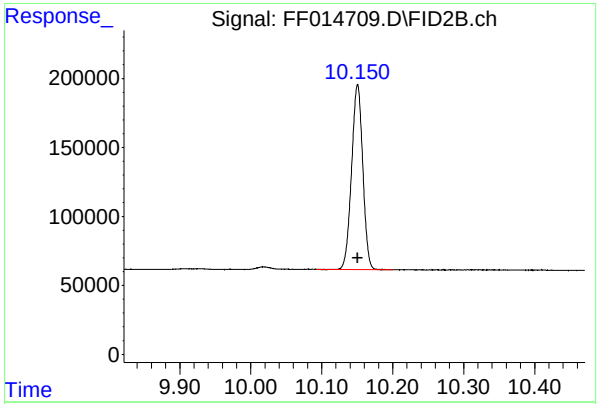
#3 N-DODECANE

R.T.: 6.721 min
Delta R.T.: 0.000 min
Response: 1452786
Conc: 10.16 ug/ml



#4 N-TETRADECANE

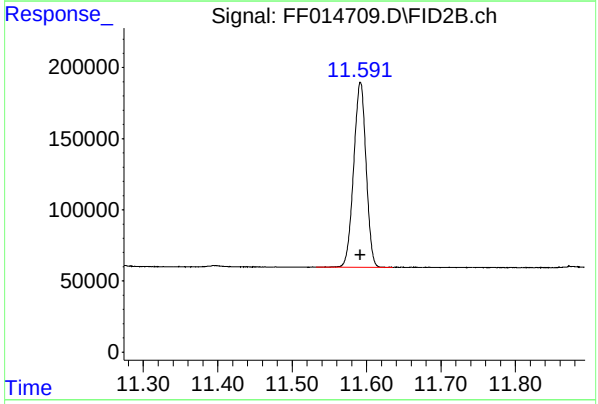
R.T.: 8.545 min
Delta R.T.: 0.000 min
Response: 1471114
Conc: 10.18 ug/ml



#5 N-HEXADECANE

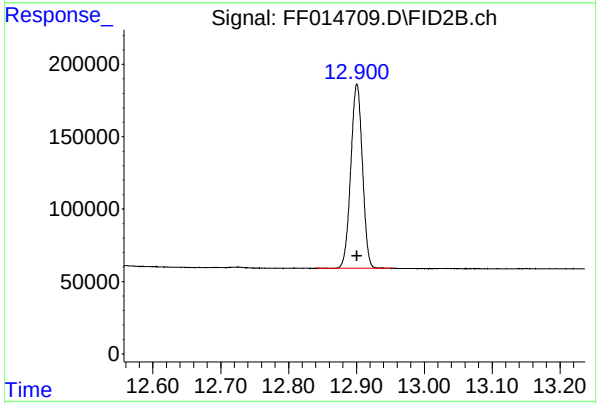
R.T.: 10.151 min
Delta R.T.: 0.000 min
Response: 1470544
Conc: 10.15 ug/ml

Instrument :
FID_F
ClientSampleId :
10 TRPH STD



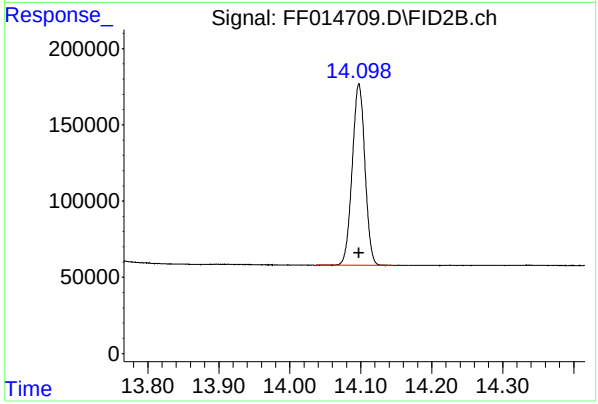
#6 N-OCTADECANE

R.T.: 11.592 min
Delta R.T.: 0.000 min
Response: 1506346
Conc: 10.18 ug/ml



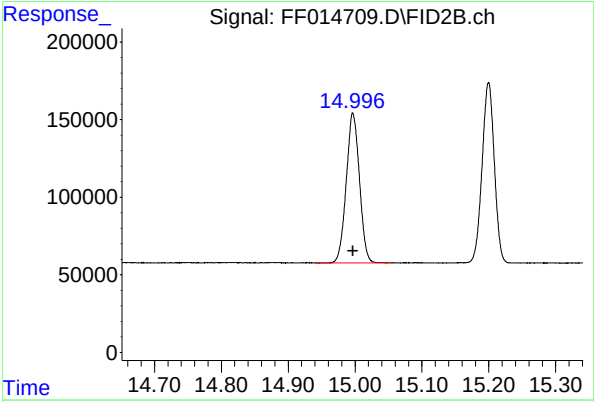
#7 N-EICOSANE

R.T.: 12.901 min
Delta R.T.: 0.000 min
Response: 1518951
Conc: 10.15 ug/ml



#8 N-DOCOSANE

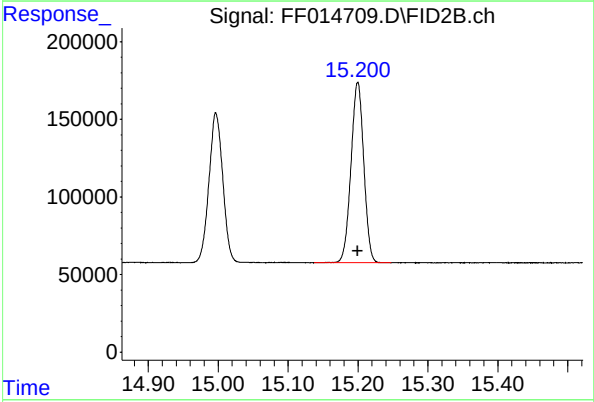
R.T.: 14.097 min
Delta R.T.: 0.000 min
Response: 1479666
Conc: 10.19 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

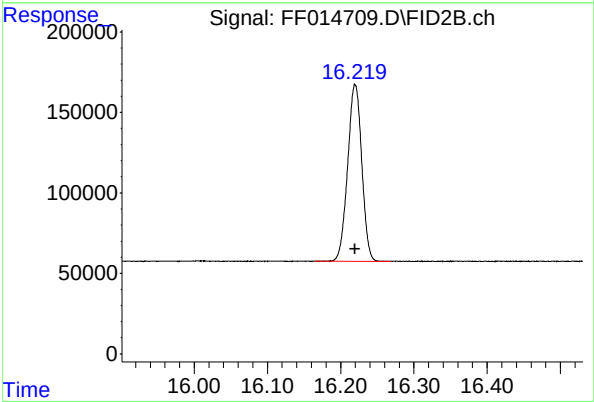
R.T.: 14.997 min
Delta R.T.: 0.000 min
Response: 1322603
Conc: 10.18 ug/ml

Instrument :
FID_F
ClientSampleId :
10 TRPH STD



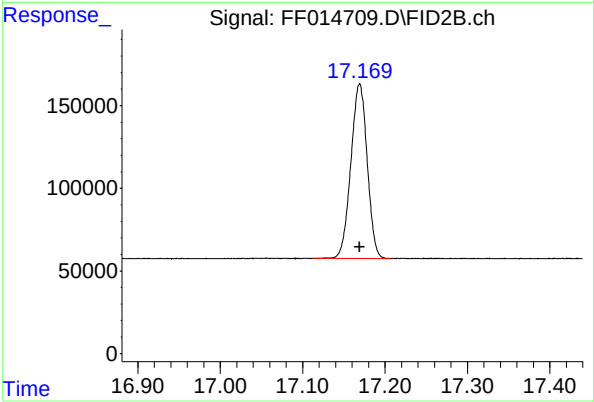
#10 N-TETRACOSANE

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 1479406
Conc: 10.20 ug/ml



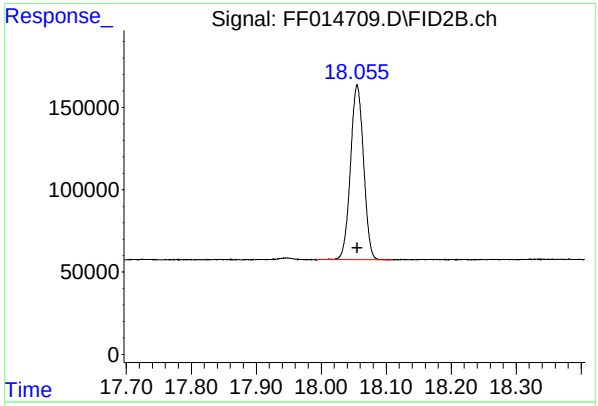
#11 N-HEXACOSANE

R.T.: 16.220 min
Delta R.T.: 0.000 min
Response: 1470196
Conc: 10.20 ug/ml



#12 N-OCTACOSANE

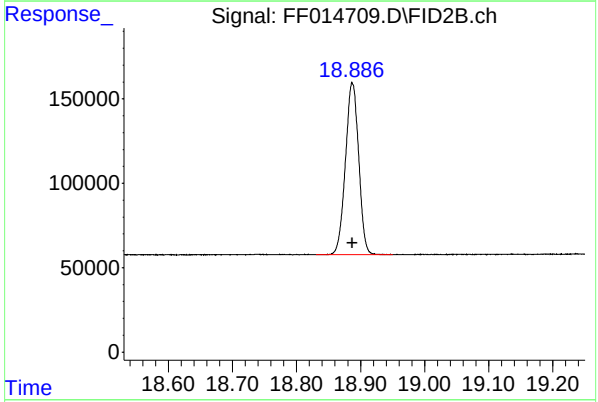
R.T.: 17.169 min
Delta R.T.: 0.000 min
Response: 1455486
Conc: 10.24 ug/ml



#13 N-TRIACONTANE

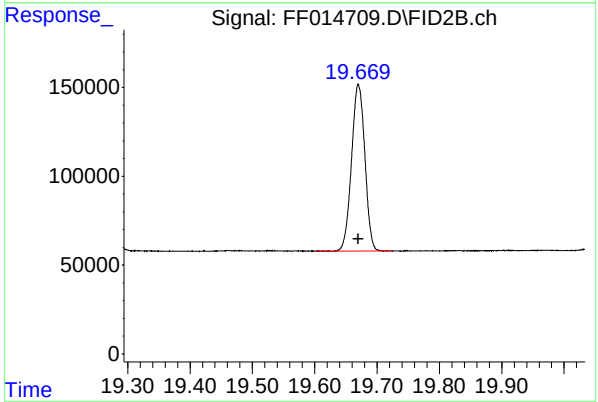
R.T.: 18.055 min
Delta R.T.: 0.000 min
Response: 1481698
Conc: 10.36 ug/ml

Instrument :
FID_F
ClientSampleId :
10 TRPH STD



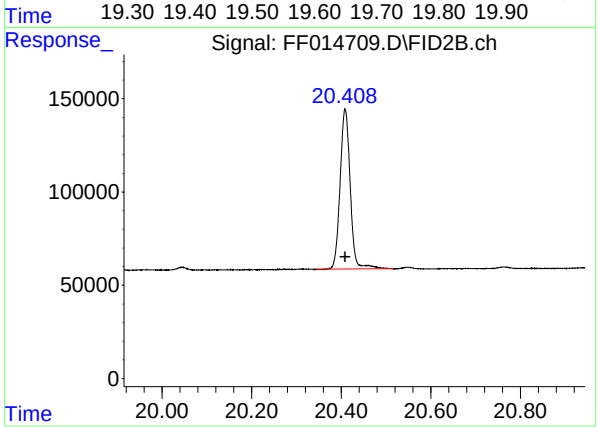
#14 N-DOTRIACONTANE

R.T.: 18.887 min
Delta R.T.: 0.000 min
Response: 1460398
Conc: 10.45 ug/ml



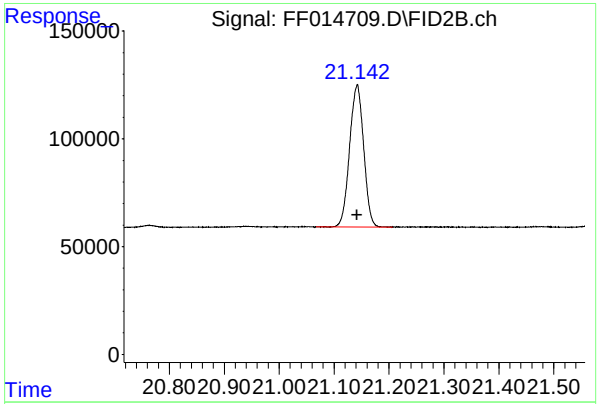
#15 N-TETRATRIACONTANE

R.T.: 19.670 min
Delta R.T.: 0.000 min
Response: 1394669
Conc: 10.42 ug/ml



#16 N-HEXATRIACONTANE

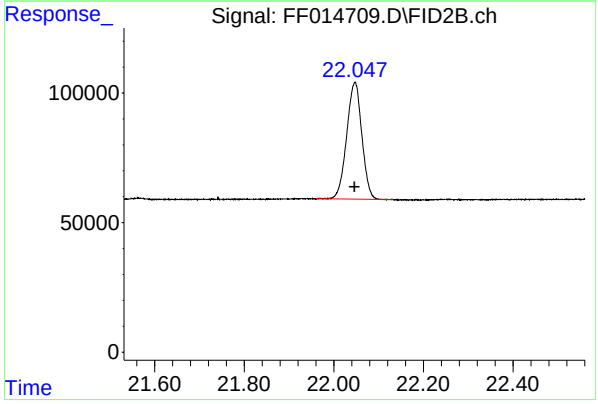
R.T.: 20.409 min
Delta R.T.: 0.000 min
Response: 1350478
Conc: 10.46 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.142 min
Delta R.T.: 0.000 min
Response: 1172155
Conc: 10.37 ug/ml

Instrument :
FID_F
ClientSampleId :
10 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.047 min
Delta R.T.: 0.000 min
Response: 1062736
Conc: 10.28 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014709.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 16:46
Sample : 10 TRPH STD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.044	1.994	2.100	BB	144443	1391050	91.58%	5.483%
2	4.561	4.527	4.590	BB	142326	1431638	94.25%	5.643%
3	6.721	6.687	6.764	BB	145021	1452786	95.64%	5.726%
4	8.545	8.504	8.592	BB	139689	1471114	96.85%	5.798%
5	10.151	10.092	10.200	BB	134197	1470544	96.81%	5.796%
6	11.592	11.532	11.635	BB	130092	1506346	99.17%	5.937%
7	12.901	12.840	12.954	BB	127584	1518951	100.00%	5.987%
8	14.097	14.037	14.145	BB	118761	1479666	97.41%	5.832%
9	14.997	14.939	15.054	BB	96188	1322603	87.07%	5.213%
10	15.200	15.137	15.247	BB	116501	1479406	97.40%	5.831%
11	16.220	16.164	16.269	BB	109521	1470196	96.79%	5.795%
12	17.169	17.114	17.207	BB	105580	1455486	95.82%	5.737%
13	18.055	17.992	18.110	BB	106271	1481698	97.55%	5.840%
14	18.887	18.830	18.950	BB	101797	1460398	96.15%	5.756%
15	19.670	19.602	19.725	BB	93819	1394669	91.82%	5.497%
16	20.409	20.344	20.515	BB	85772	1350478	88.91%	5.323%
17	21.142	21.067	21.207	BB	66140	1172155	77.17%	4.620%
18	22.047	21.960	22.132	BB	45214	1062736	69.97%	4.189%
			Sum of corrected areas:			25371919		

FF102124.M Tue Oct 22 01:23:44 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014710.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 17:15
Operator : YP\AJ
Sample : 5 TRPH STD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 TRPH STD

Integration File: autoint1.e
Quant Time: Oct 21 17:35:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Mon Oct 21 17:35:19 2024
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...	14.996	691394	5.254 ug/ml
	Target Compounds			
1)	N-OCTANE	2.044	735139	5.284 ug/ml
2)	N-DECANE	4.560	756089	5.293 ug/ml
3)	N-DODECANE	6.722	768253	5.294 ug/ml
4)	N-TETRADECANE	8.545	775382	5.290 ug/ml
5)	N-HEXADECANE	10.150	775794	5.279 ug/ml
6)	N-OCTADECANE	11.591	792835	5.281 ug/ml
7)	N-EICOSANE	12.900	800046	5.274 ug/ml
8)	N-DOCOSANE	14.098	773720	5.258 ug/ml
10)	N-TETRACOSANE	15.199	774521	5.270 ug/ml
11)	N-HEXACOSANE	16.220	769893	5.271 ug/ml
12)	N-OCTACOSANE	17.169	769883	5.328 ug/ml
13)	N-TRIACONTANE	18.055	798876	5.457 ug/ml
14)	N-DOTRIACONTANE	18.887	801393	5.570 ug/ml
15)	N-TETRATRIACONTANE	19.670	752249	5.485 ug/ml
16)	N-HEXATRIACONTANE	20.409	661136	5.096 ug/ml
17)	N-OCTATRIACONTANE	21.142	614859	5.346 ug/ml
18)	N-TETRACONTANE	22.046	557917	5.314 ug/ml

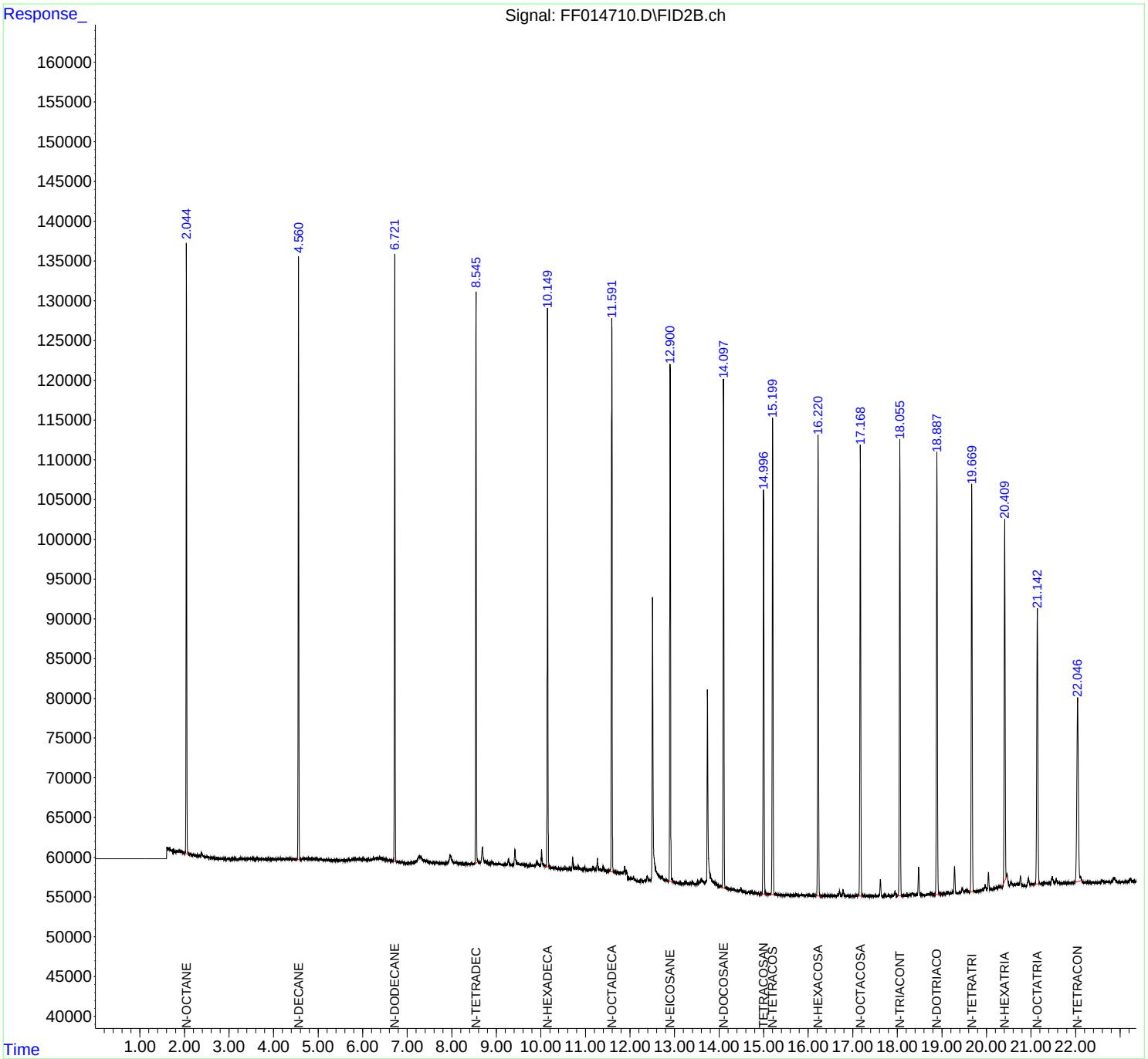
(f)=RT Delta > 1/2 Window (m)=manual int.

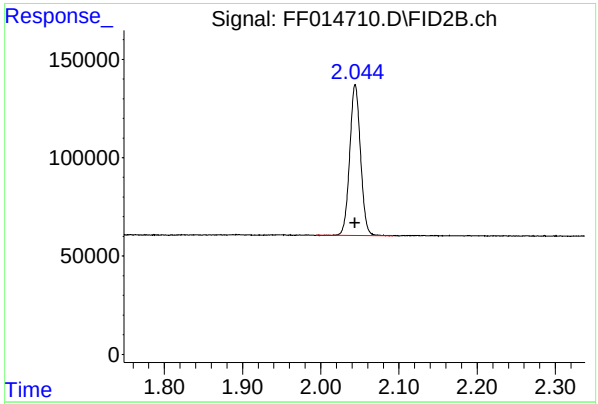
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014710.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 17:15
Operator : YP\AJ
Sample : 5 TRPH STD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 TRPH STD

Integration File: autoint1.e
Quant Time: Oct 21 17:35:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Mon Oct 21 17:35:19 2024
Response via : Initial Calibration
Integrator: ChemStation

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

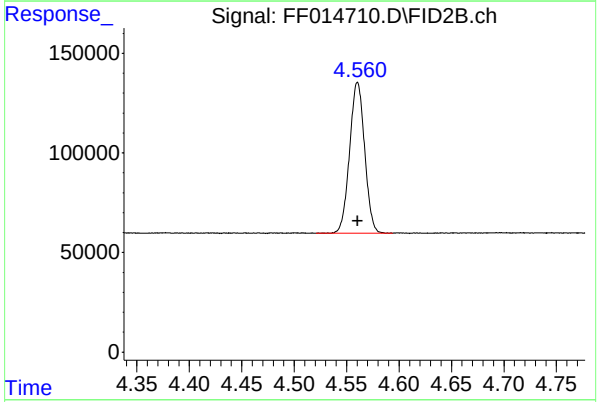




#1 N-OCTANE

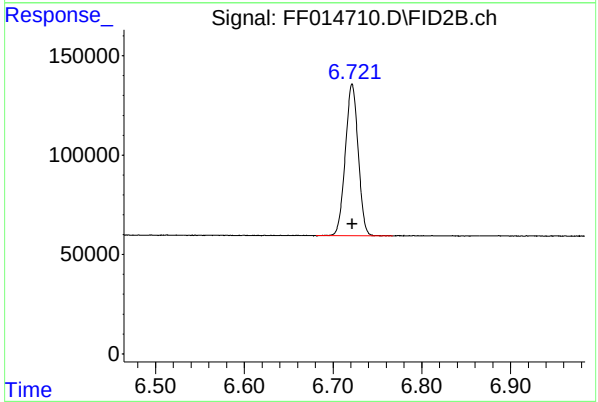
R.T.: 2.044 min
Delta R.T.: 0.000 min
Response: 735139
Conc: 5.28 ug/ml

Instrument :
FID_F
ClientSampleId :
5 TRPH STD



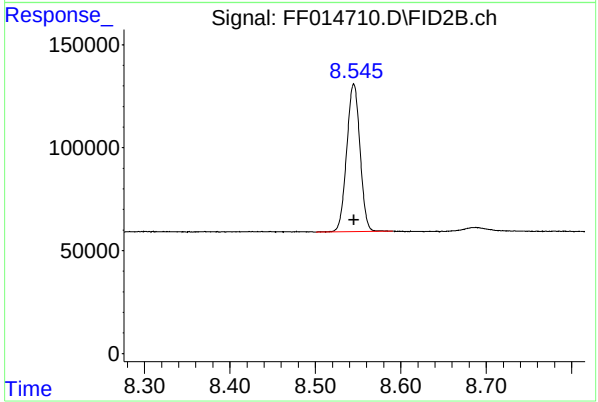
#2 N-DECANE

R.T.: 4.560 min
Delta R.T.: 0.000 min
Response: 756089
Conc: 5.29 ug/ml



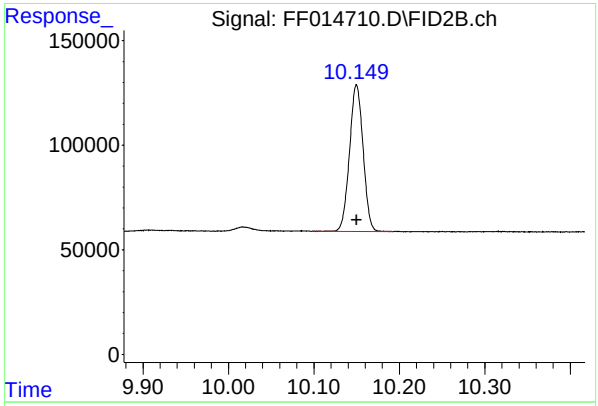
#3 N-DODECANE

R.T.: 6.722 min
Delta R.T.: 0.000 min
Response: 768253
Conc: 5.29 ug/ml



#4 N-TETRADECANE

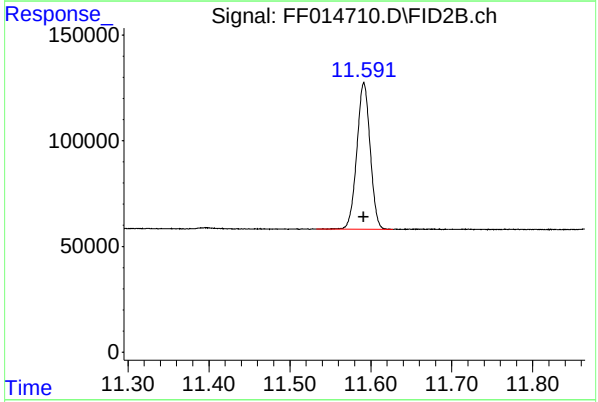
R.T.: 8.545 min
Delta R.T.: 0.000 min
Response: 775382
Conc: 5.29 ug/ml



#5 N-HEXADECANE

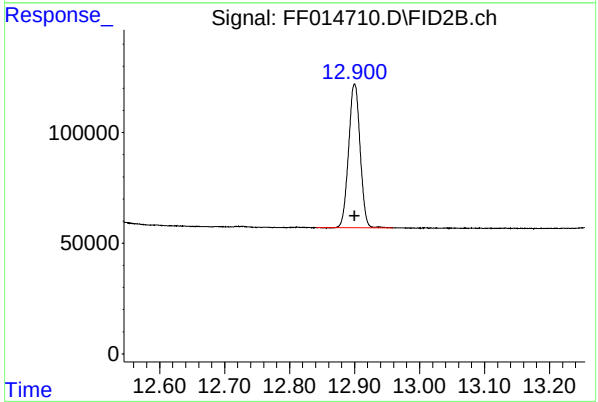
R.T.: 10.150 min
Delta R.T.: 0.000 min
Response: 775794
Conc: 5.28 ug/ml

Instrument :
FID_F
ClientSampleId :
5 TRPH STD



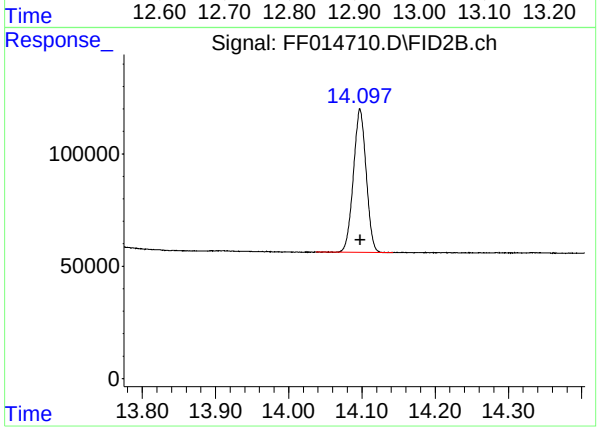
#6 N-OCTADECANE

R.T.: 11.591 min
Delta R.T.: 0.000 min
Response: 792835
Conc: 5.28 ug/ml



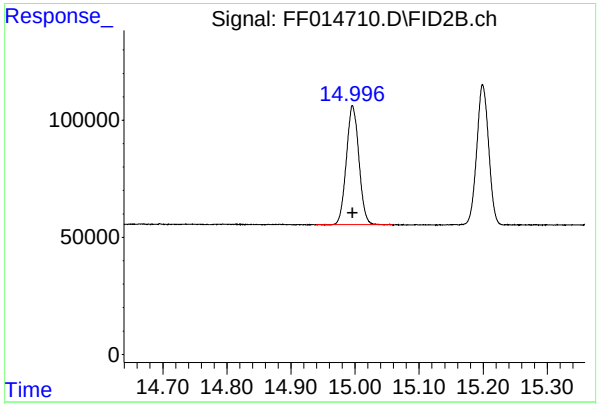
#7 N-EICOSANE

R.T.: 12.900 min
Delta R.T.: 0.000 min
Response: 800046
Conc: 5.27 ug/ml



#8 N-DOCOSANE

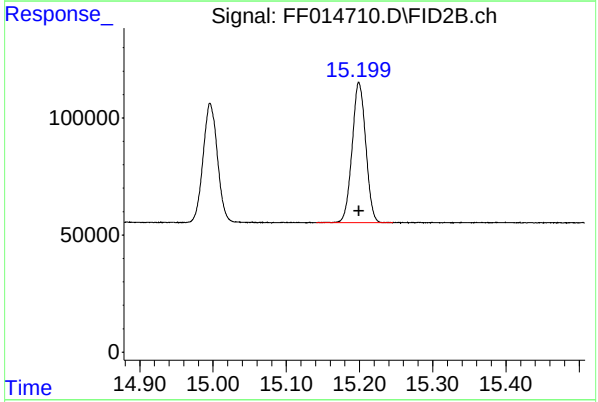
R.T.: 14.098 min
Delta R.T.: 0.000 min
Response: 773720
Conc: 5.26 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

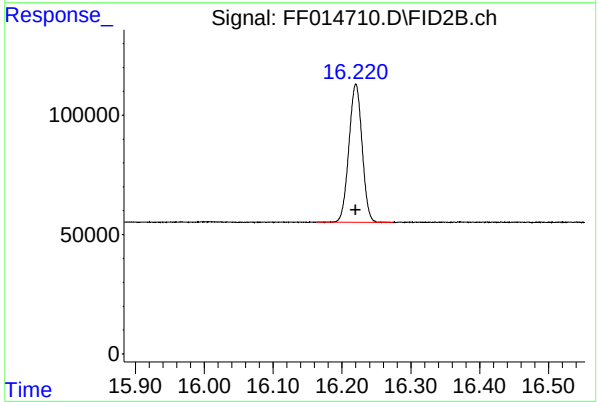
R.T.: 14.996 min
Delta R.T.: 0.000 min
Response: 691394
Conc: 5.25 ug/ml

Instrument :
FID_F
ClientSampleId :
5 TRPH STD



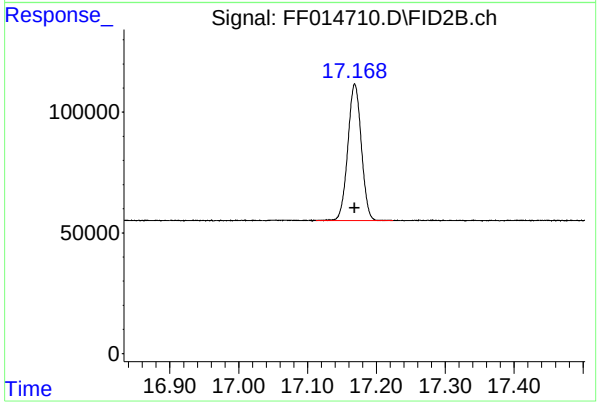
#10 N-TETRACOSANE

R.T.: 15.199 min
Delta R.T.: 0.000 min
Response: 774521
Conc: 5.27 ug/ml



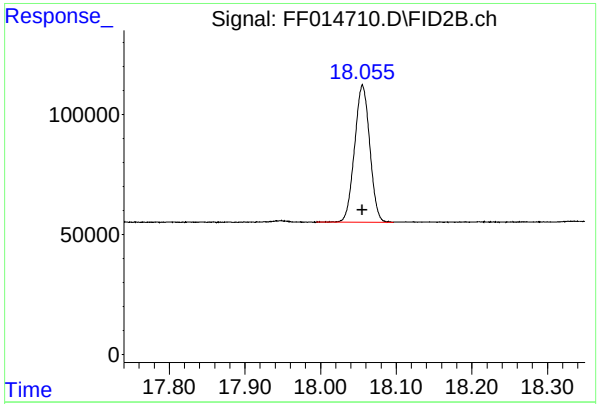
#11 N-HEXACOSANE

R.T.: 16.220 min
Delta R.T.: 0.000 min
Response: 769893
Conc: 5.27 ug/ml



#12 N-OCTACOSANE

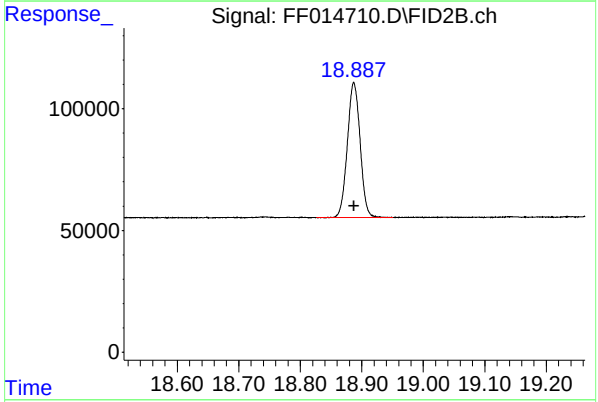
R.T.: 17.169 min
Delta R.T.: 0.000 min
Response: 769883
Conc: 5.33 ug/ml



#13 N-TRIACONTANE

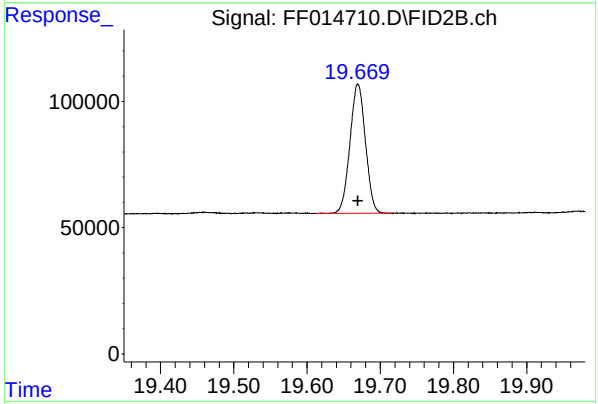
R.T.: 18.055 min
Delta R.T.: 0.000 min
Response: 798876
Conc: 5.46 ug/ml

Instrument :
FID_F
ClientSampleId :
5 TRPH STD



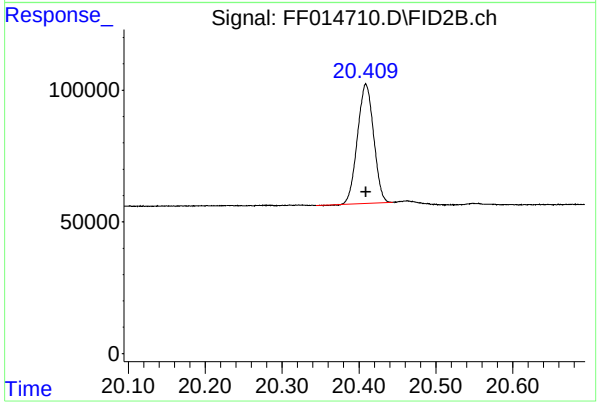
#14 N-DOTRIACONTANE

R.T.: 18.887 min
Delta R.T.: 0.000 min
Response: 801393
Conc: 5.57 ug/ml



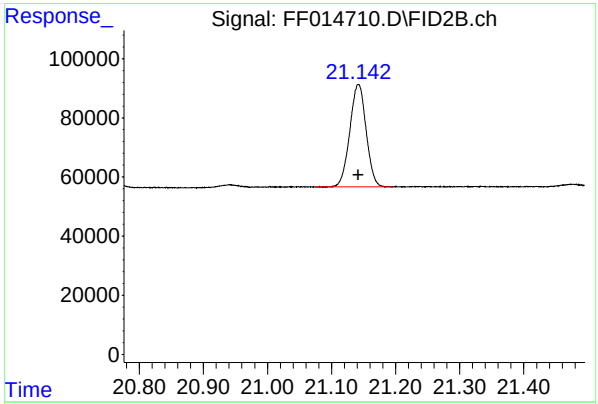
#15 N-TETRATRIACONTANE

R.T.: 19.670 min
Delta R.T.: 0.000 min
Response: 752249
Conc: 5.49 ug/ml



#16 N-HEXATRIACONTANE

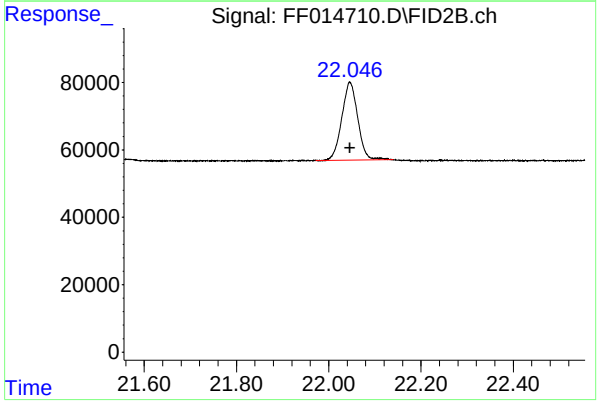
R.T.: 20.409 min
Delta R.T.: 0.000 min
Response: 661136
Conc: 5.10 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.142 min
Delta R.T.: 0.000 min
Response: 614859
Conc: 5.35 ug/ml

Instrument :
FID_F
ClientSampleId :
5 TRPH STD



#18 N-TETRACONTANE

R.T.: 22.046 min
Delta R.T.: 0.000 min
Response: 557917
Conc: 5.31 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014710.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 17:15
Sample : 5 TRPH STD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.044	1.994	2.092	BB	76698	735139	91.73%	5.499%
2	4.560	4.521	4.594	BB	75833	756089	94.35%	5.655%
3	6.722	6.681	6.767	BB	76356	768253	95.86%	5.746%
4	8.545	8.501	8.591	BB	71832	775382	96.75%	5.800%
5	10.150	10.102	10.192	BB	70024	775794	96.81%	5.803%
6	11.591	11.532	11.627	BB	69155	792835	98.93%	5.930%
7	12.900	12.841	12.959	BB	64959	800046	99.83%	5.984%
8	14.098	14.037	14.142	BB	63877	773720	96.55%	5.787%
9	14.996	14.939	15.059	BB	50817	691394	86.27%	5.171%
10	15.199	15.141	15.246	BB	59864	774521	96.65%	5.793%
11	16.220	16.162	16.274	BB	58016	769893	96.07%	5.759%
12	17.169	17.112	17.224	BB	56438	769883	96.07%	5.759%
13	18.055	17.994	18.096	BB	57244	798876	99.69%	5.975%
14	18.887	18.826	18.951	BB	55492	801393	100.00%	5.994%
15	19.670	19.612	19.717	BB	51231	752249	93.87%	5.627%
16	20.409	20.344	20.444	BV	45303	661136	82.50%	4.945%
17	21.142	21.076	21.196	BB	34712	614859	76.72%	4.599%
18	22.046	21.972	22.139	BB	23121	557917	69.62%	4.173%

Sum of corrected areas: 13369378

FF102124.M Tue Oct 22 01:24:03 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014711.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 17:44
Operator : YP\AJ
Sample : FF102124ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
FF102124ICV

Integration File: autoint1.e
Quant Time: Oct 22 08:36:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
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...	15.001	6320920	48.030 ug/ml
	Target Compounds			
1)	N-OCTANE	2.042	6688337	48.071 ug/ml
2)	N-DECANE	4.562	6865268	48.058 ug/ml
3)	N-DODECANE	6.725	6977659	48.084 ug/ml
4)	N-TETRADECANE	8.549	7046711	48.072 ug/ml
5)	N-HEXADECANE	10.154	7074200	48.140 ug/ml
6)	N-OCTADECANE	11.596	7208290	48.014 ug/ml
7)	N-EICOSANE	12.906	7293038	48.075 ug/ml
8)	N-DOCOSANE	14.103	7073930	48.073 ug/ml
10)	N-TETRACOSANE	15.205	7065898	48.077 ug/ml
11)	N-HEXACOSANE	16.225	7025444	48.099 ug/ml
12)	N-OCTACOSANE	17.174	6938938	48.023 ug/ml
13)	N-TRIACONTANE	18.061	6944995	47.442 ug/ml
14)	N-DOTRIACONTANE	18.893	6772290	47.074 ug/ml
15)	N-TETRATRIACONTANE	19.676	6515975	47.512 ug/ml
16)	N-HEXATRIACONTANE	20.414	6058417	46.700 ug/ml
17)	N-OCTATRIACONTANE	21.147	5557472	48.319 ug/ml
18)	N-TETRACONTANE	22.054	5137662	48.932 ug/ml

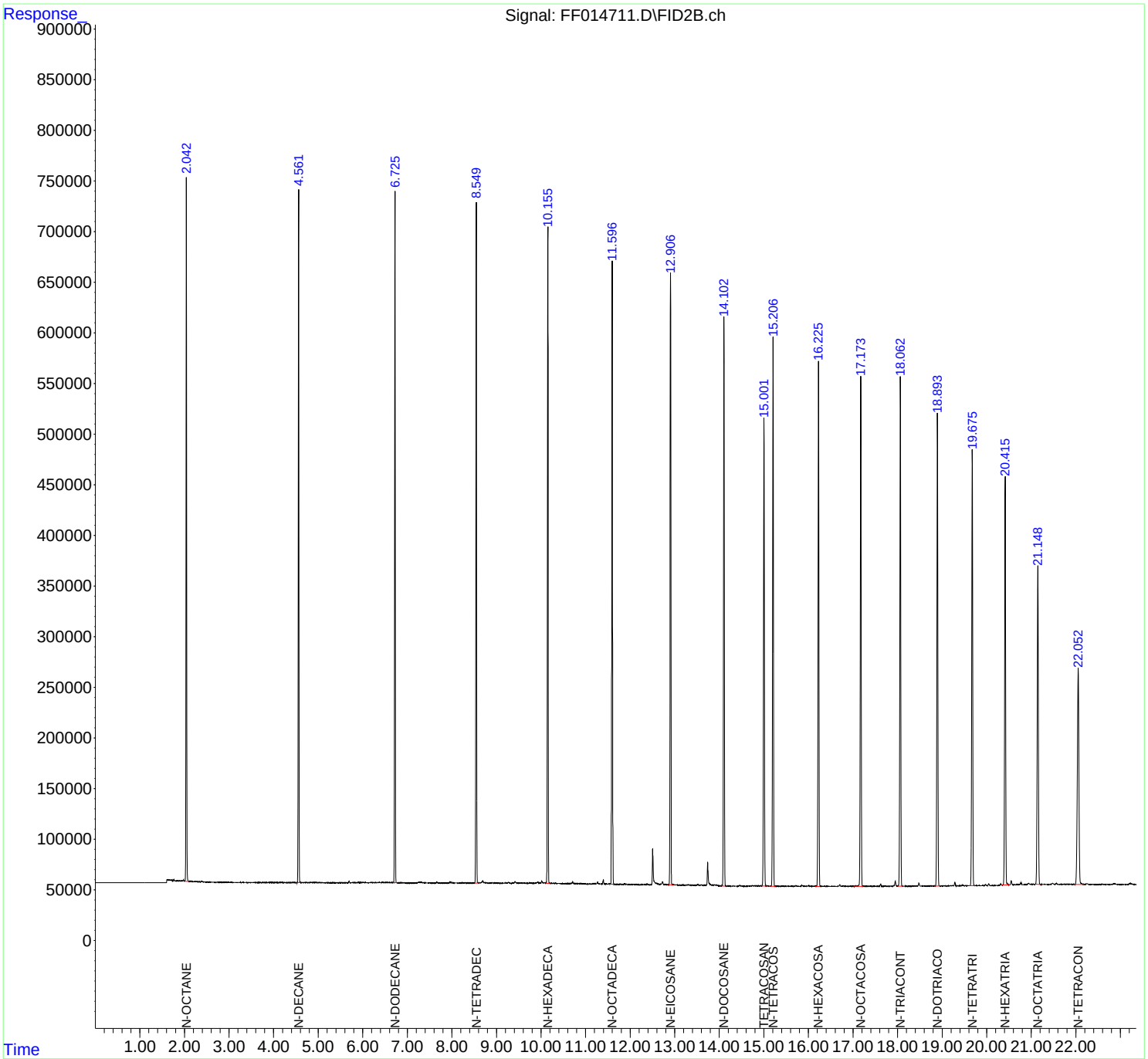
(f)=RT Delta > 1/2 Window (m)=manual int.

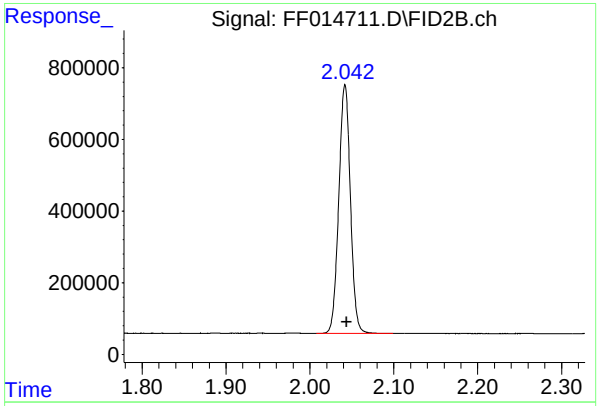
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014711.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 17:44
Operator : YP\AJ
Sample : FF102124ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
FF102124ICV

Integration File: autoint1.e
Quant Time: Oct 22 08:36:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

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

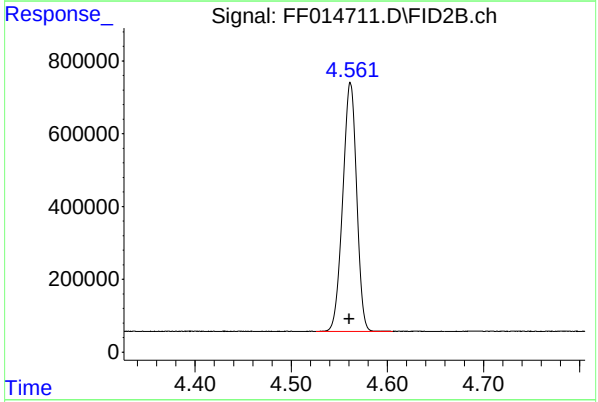




#1 N-OCTANE

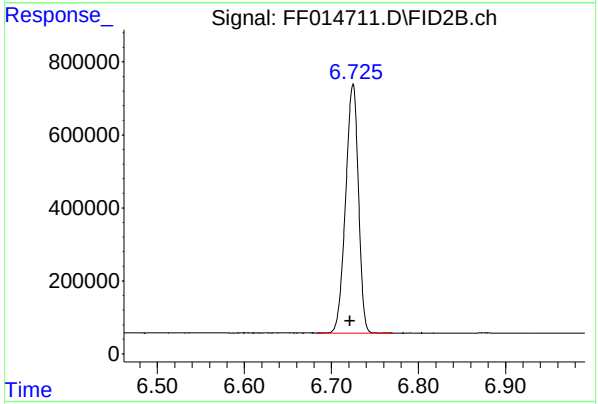
R.T.: 2.042 min
Delta R.T.: -0.002 min
Response: 6688337
Conc: 48.07 ug/ml

Instrument :
FID_F
ClientSampleId :
FF102124ICV



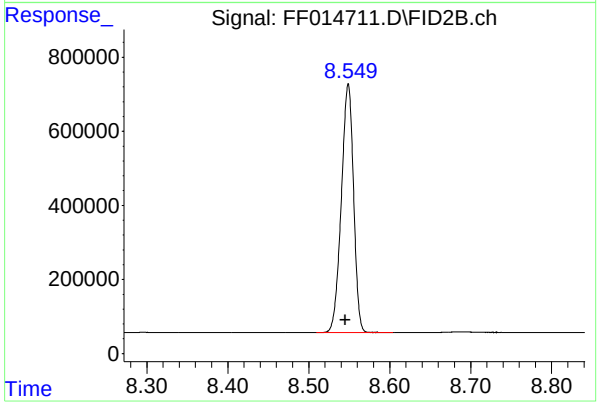
#2 N-DECANE

R.T.: 4.562 min
Delta R.T.: 0.000 min
Response: 6865268
Conc: 48.06 ug/ml



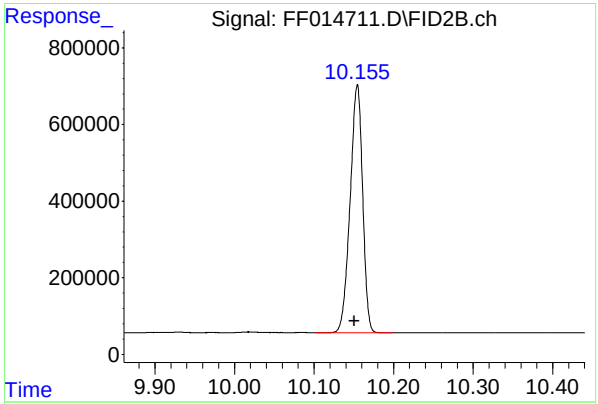
#3 N-DODECANE

R.T.: 6.725 min
Delta R.T.: 0.003 min
Response: 6977659
Conc: 48.08 ug/ml



#4 N-TETRADECANE

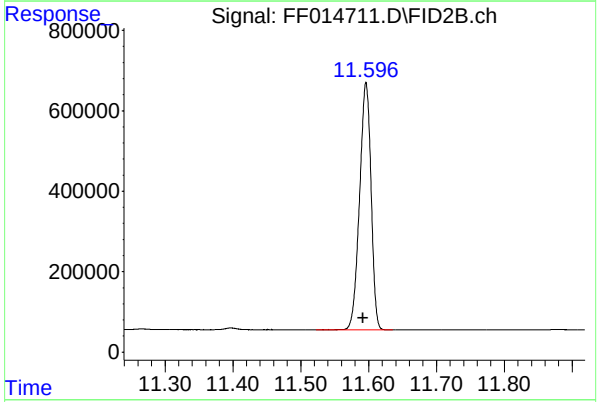
R.T.: 8.549 min
Delta R.T.: 0.004 min
Response: 7046711
Conc: 48.07 ug/ml



#5 N-HEXADECANE

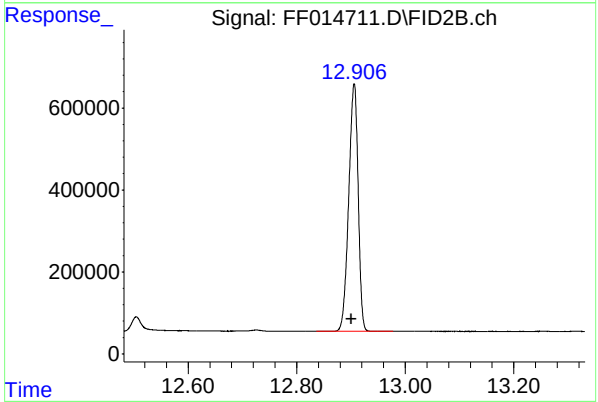
R.T.: 10.154 min
Delta R.T.: 0.004 min
Response: 7074200
Conc: 48.14 ug/ml

Instrument :
FID_F
ClientSampleId :
FF102124ICV



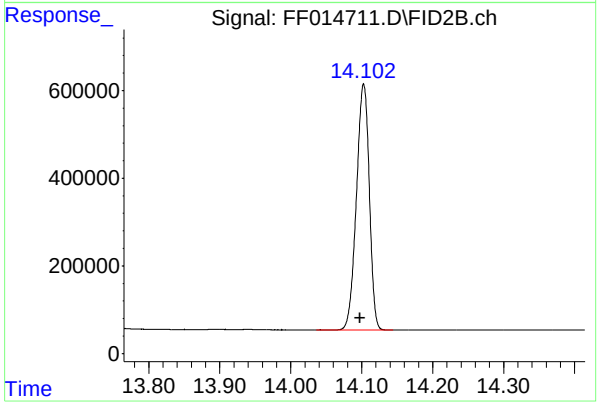
#6 N-OCTADECANE

R.T.: 11.596 min
Delta R.T.: 0.004 min
Response: 7208290
Conc: 48.01 ug/ml



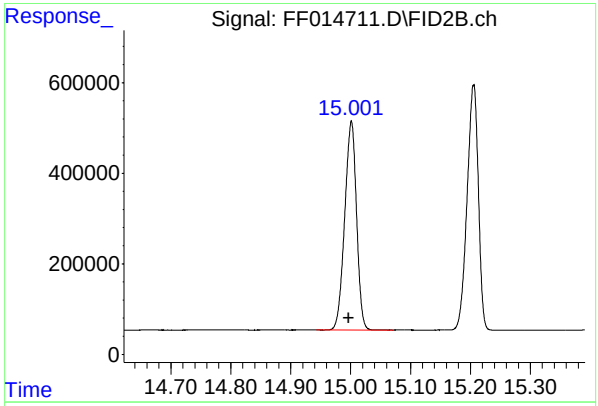
#7 N-EICOSANE

R.T.: 12.906 min
Delta R.T.: 0.005 min
Response: 7293038
Conc: 48.07 ug/ml



#8 N-DOCOSANE

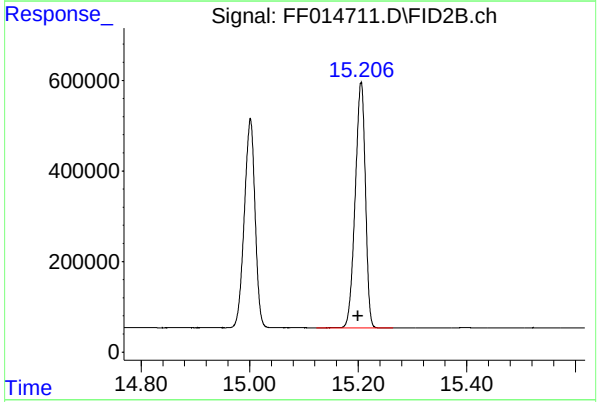
R.T.: 14.103 min
Delta R.T.: 0.005 min
Response: 7073930
Conc: 48.07 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

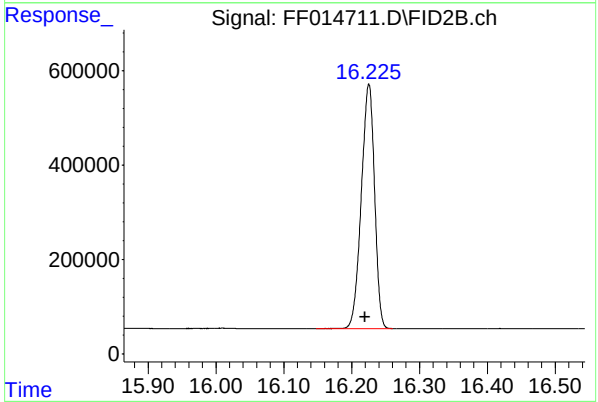
R.T.: 15.001 min
Delta R.T.: 0.004 min
Response: 6320920
Conc: 48.03 ug/ml

Instrument :
FID_F
ClientSampleId :
FF102124ICV



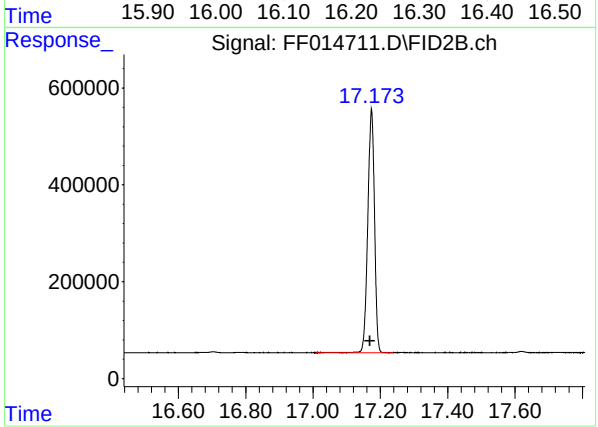
#10 N-TETRACOSANE

R.T.: 15.205 min
Delta R.T.: 0.005 min
Response: 7065898
Conc: 48.08 ug/ml



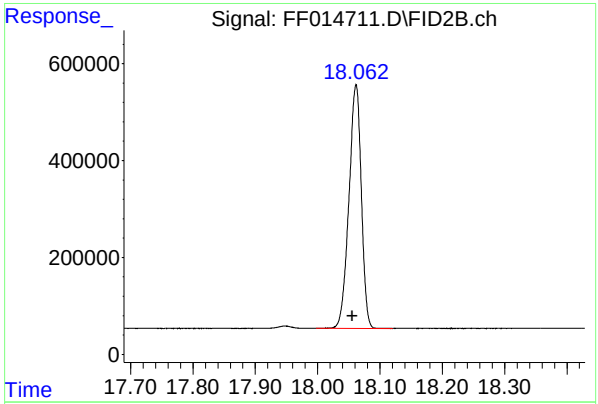
#11 N-HEXACOSANE

R.T.: 16.225 min
Delta R.T.: 0.005 min
Response: 7025444
Conc: 48.10 ug/ml



#12 N-OCTACOSANE

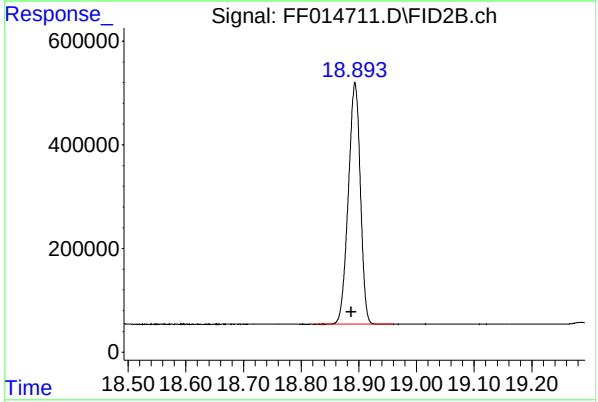
R.T.: 17.174 min
Delta R.T.: 0.004 min
Response: 6938938
Conc: 48.02 ug/ml



#13 N-TRIACONTANE

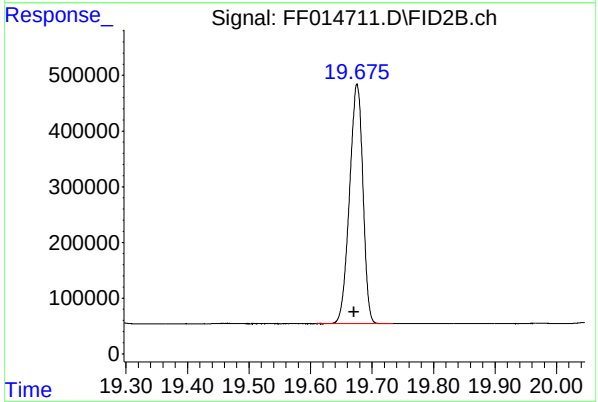
R.T.: 18.061 min
Delta R.T.: 0.006 min
Response: 6944995
Conc: 47.44 ug/ml

Instrument :
FID_F
ClientSampleId :
FF102124ICV



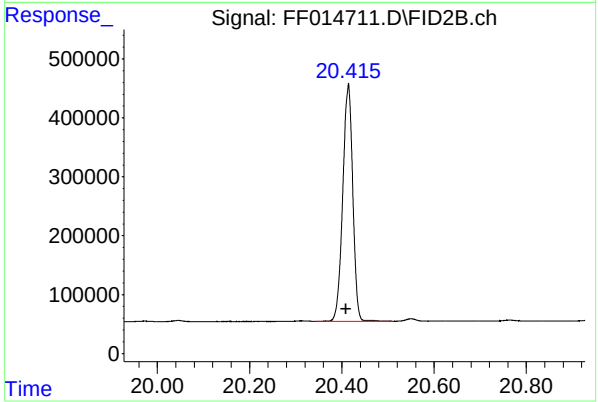
#14 N-DOTRIACONTANE

R.T.: 18.893 min
Delta R.T.: 0.006 min
Response: 6772290
Conc: 47.07 ug/ml



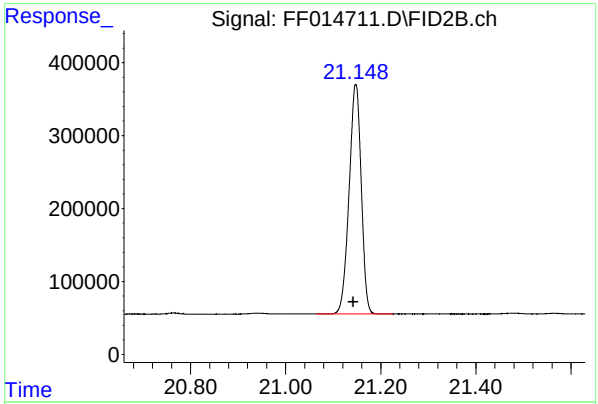
#15 N-TETRATRIACONTANE

R.T.: 19.676 min
Delta R.T.: 0.005 min
Response: 6515975
Conc: 47.51 ug/ml



#16 N-HEXATRIACONTANE

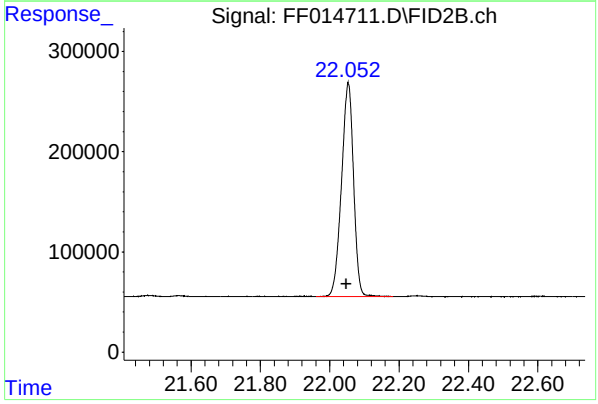
R.T.: 20.414 min
Delta R.T.: 0.005 min
Response: 6058417
Conc: 46.70 ug/ml



#17 N-OCTATRIACONTANE

R.T.: 21.147 min
Delta R.T.: 0.006 mi
Response: 5557472
Conc: 48.32 ug/m

Instrument :
FID_F
ClientSampleId :
FF102124ICV



#18 N-TETRACONTANE

R.T.: 22.054 min
Delta R.T.: 0.006 min
Response: 5137662
Conc: 48.93 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102124\
Data File : FF014711.D
Signal(s) : FID2B.ch
Acq On : 21 Oct 2024 17:44
Sample : FF102124ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.042	2.007	2.099	BB	696414	6688337	91.71%	5.547%
2	4.562	4.526	4.606	BB	683926	6865268	94.13%	5.694%
3	6.725	6.682	6.771	BB	680524	6977659	95.68%	5.787%
4	8.549	8.509	8.604	BB	673720	7046711	96.62%	5.845%
5	10.154	10.102	10.199	BB	646114	7074200	97.00%	5.868%
6	11.596	11.522	11.636	BB	614857	7208290	98.84%	5.979%
7	12.906	12.836	12.977	BB	605809	7293038	100.00%	6.049%
8	14.103	14.036	14.144	BB	562179	7073930	97.00%	5.867%
9	15.001	14.942	15.071	BB	461889	6320920	86.67%	5.243%
10	15.205	15.122	15.264	BB	542671	7065898	96.89%	5.861%
11	16.225	16.147	16.261	BB	518720	7025444	96.33%	5.827%
12	17.174	17.009	17.237	BB	503882	6938938	95.14%	5.755%
13	18.061	17.997	18.121	BB	502039	6944995	95.23%	5.760%
14	18.893	18.826	18.959	BB	466196	6772290	92.86%	5.617%
15	19.676	19.609	19.734	BB	430021	6515975	89.35%	5.405%
16	20.414	20.344	20.511	BB	402366	6058417	83.07%	5.025%
17	21.147	21.064	21.226	BB	314456	5557472	76.20%	4.610%
18	22.054	21.961	22.182	BB	212181	5137662	70.45%	4.261%

Sum of corrected areas: 120565445

FF102124.M Tue Oct 22 01:24:31 2024

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: CHEM02

ProjectID: NJ Soil PT

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

DataFile: FF014757.D Analyst Name: YP\AJ Analyst Date: 10-24-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	74772222	149544	146801	1.869

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014757.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 12:59
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :

Integration File: autoint1.e
Quant Time: Oct 25 04:36:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
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...	15.014	6697885	50.895 ug/ml
	Target Compounds			
2)	N-DECANE	4.571	7407274	51.852 ug/ml
3)	N-DODECANE	6.735	7497124	51.663 ug/ml
4)	N-TETRADECANE	8.560	7529901	51.369 ug/ml
5)	N-HEXADECANE	10.166	7544750	51.342 ug/ml
6)	N-OCTADECANE	11.608	7654653	50.987 ug/ml
7)	N-EICOSANE	12.917	7704655	50.788 ug/ml
8)	N-DOCOSANE	14.114	7443920	50.587 ug/ml
10)	N-TETRACOSANE	15.218	7409114	50.413 ug/ml
11)	N-HEXACOSANE	16.238	7318384	50.105 ug/ml
12)	N-OCTACOSANE	17.187	7262447	50.262 ug/ml

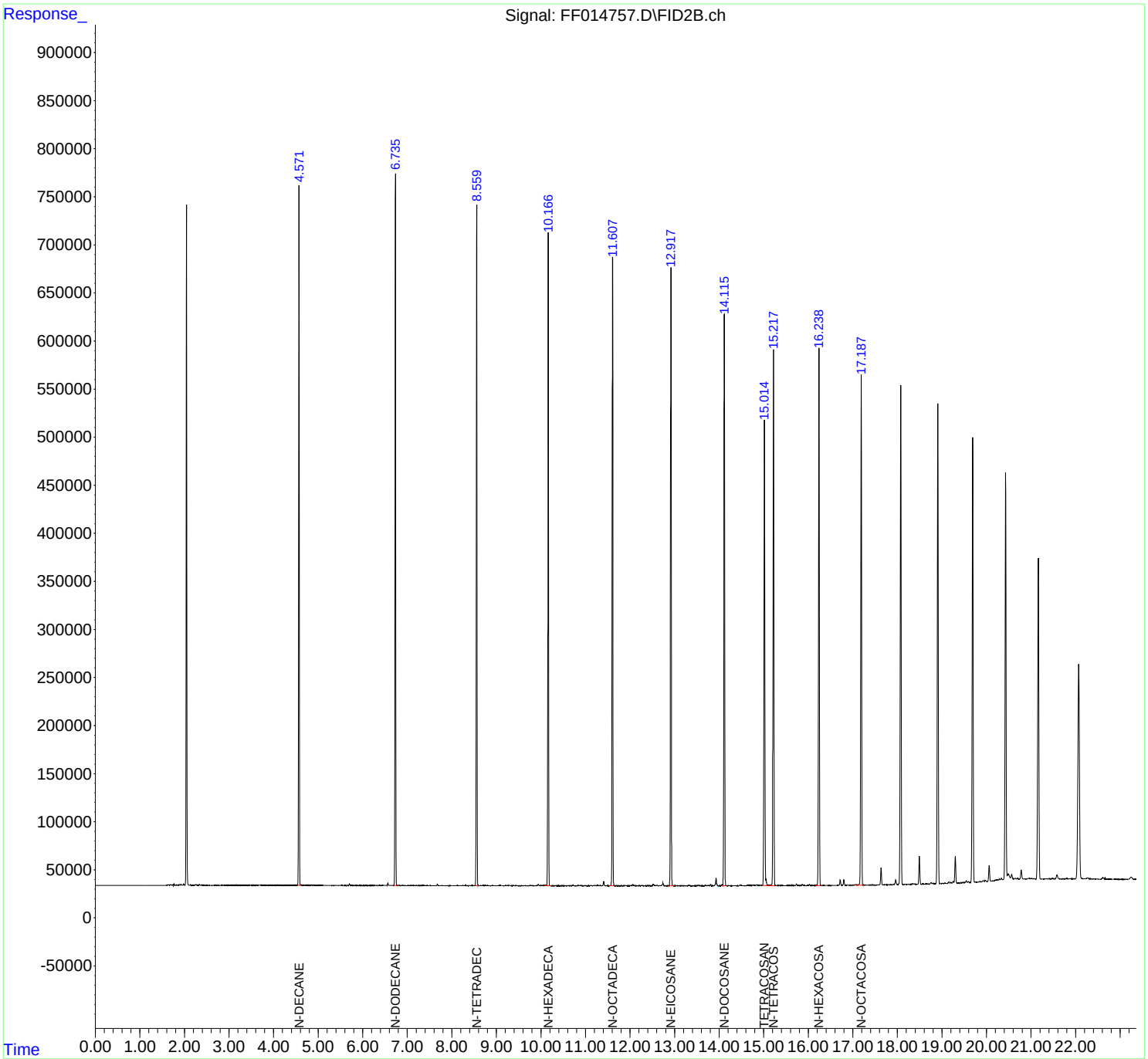
(f)=RT Delta > 1/2 Window (m)=manual int.

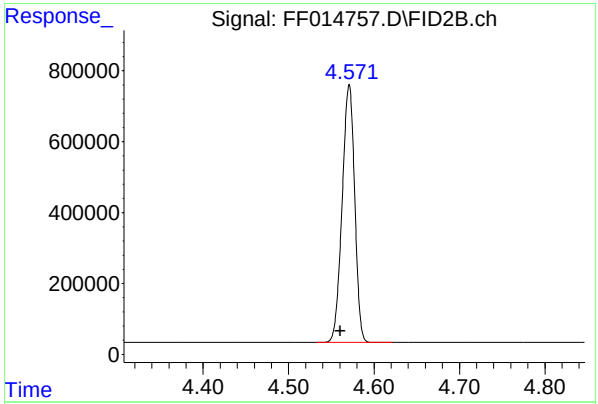
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014757.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 12:59
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :

Integration File: autoint1.e
Quant Time: Oct 25 04:36:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

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

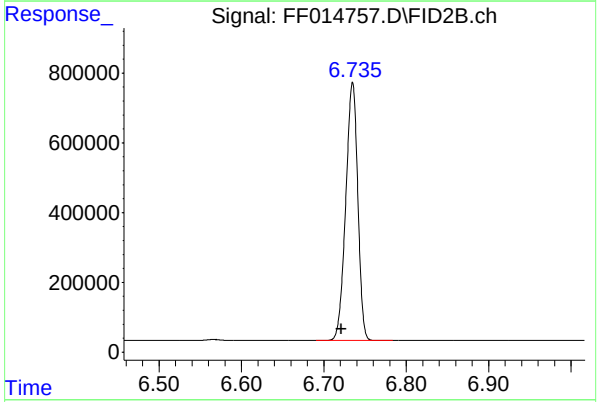




#2 N-DECANE

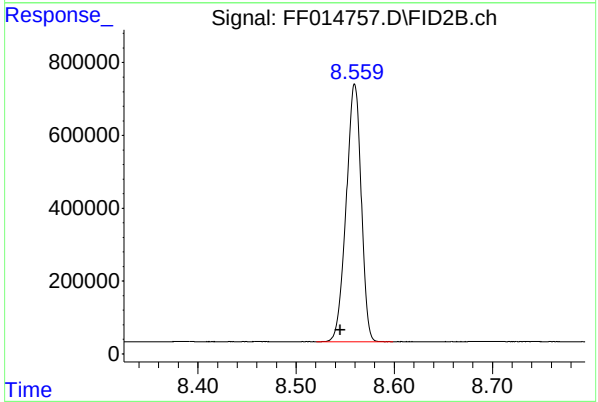
R.T.: 4.571 min
Delta R.T.: 0.010 min
Response: 7407274
Conc: 51.85 ug/ml

Instrument :
FID_F
ClientSampleId :



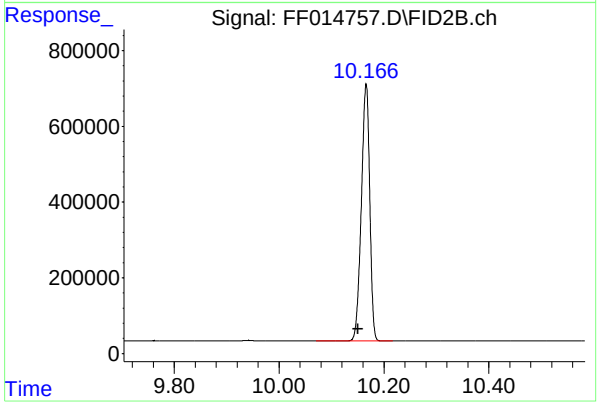
#3 N-DODECANE

R.T.: 6.735 min
Delta R.T.: 0.013 min
Response: 7497124
Conc: 51.66 ug/ml



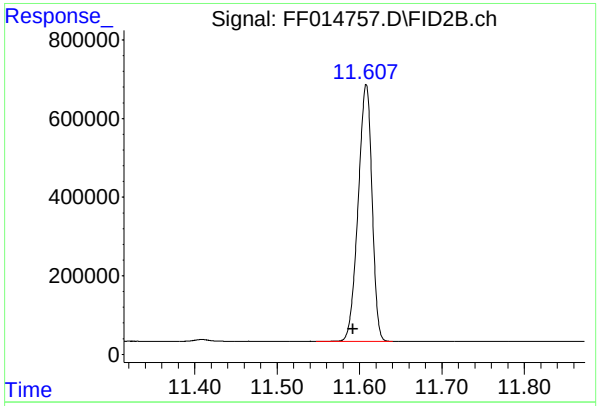
#4 N-TETRADECANE

R.T.: 8.560 min
Delta R.T.: 0.015 min
Response: 7529901
Conc: 51.37 ug/ml



#5 N-HEXADECANE

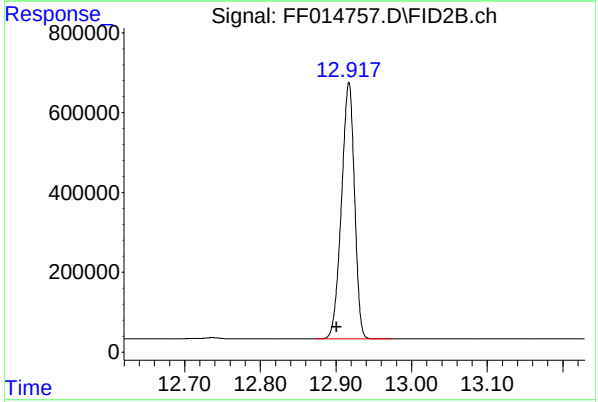
R.T.: 10.166 min
Delta R.T.: 0.015 min
Response: 7544750
Conc: 51.34 ug/ml



#6 N-OCTADECANE

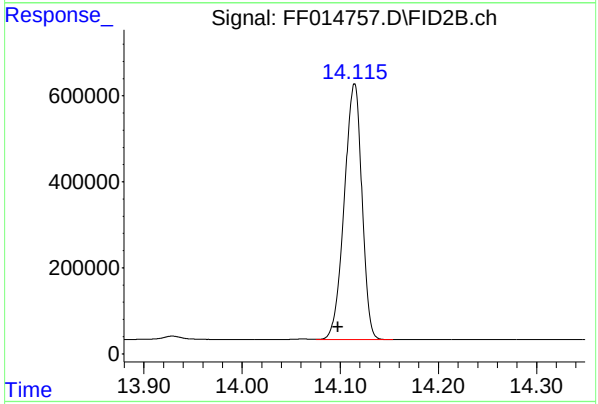
R.T.: 11.608 min
Delta R.T.: 0.016 min
Response: 7654653
Conc: 50.99 ug/ml

Instrument :
FID_F
ClientSampleId :



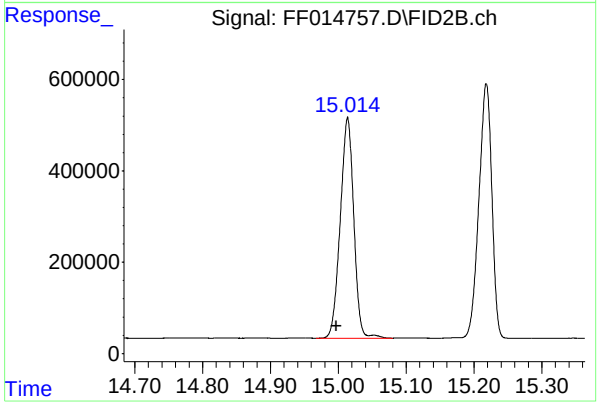
#7 N-EICOSANE

R.T.: 12.917 min
Delta R.T.: 0.016 min
Response: 7704655
Conc: 50.79 ug/ml



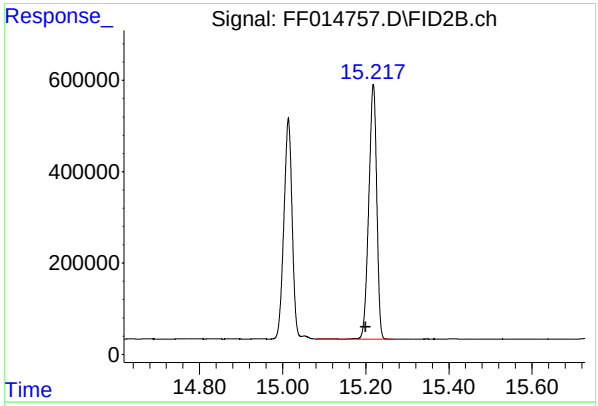
#8 N-DOCOSANE

R.T.: 14.114 min
Delta R.T.: 0.017 min
Response: 7443920
Conc: 50.59 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

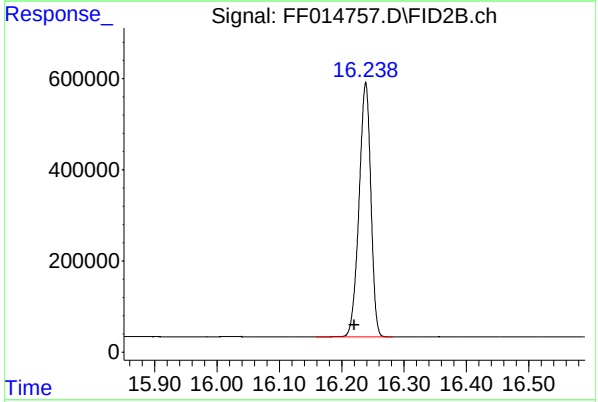
R.T.: 15.014 min
Delta R.T.: 0.017 min
Response: 6697885
Conc: 50.89 ug/ml



#10 N-TETRACOSANE

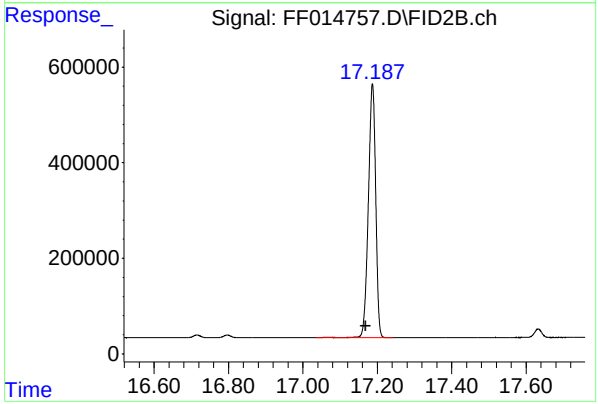
R.T.: 15.218 min
Delta R.T.: 0.018 min
Response: 7409114
Conc: 50.41 ug/ml

Instrument :
FID_F
ClientSampleId :



#11 N-HEXACOSANE

R.T.: 16.238 min
Delta R.T.: 0.019 min
Response: 7318384
Conc: 50.10 ug/ml



#12 N-OCTACOSANE

R.T.: 17.187 min
Delta R.T.: 0.018 min
Response: 7262447
Conc: 50.26 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014757.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 12:59
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.571	4.532	4.622	BB	725833	7407274	96.14%	9.092%
2	6.735	6.690	6.784	BB	742245	7497124	97.31%	9.202%
3	8.560	8.520	8.599	BB	707745	7529901	97.73%	9.243%
4	10.166	10.070	10.217	BB	679505	7544750	97.92%	9.261%
5	11.608	11.547	11.640	BB	654061	7654653	99.35%	9.396%
6	12.917	12.874	12.975	BB	643973	7704655	100.00%	9.457%
7	14.114	14.075	14.154	VB	595547	7443920	96.62%	9.137%
8	15.014	14.967	15.080	BV	483446	6697885	86.93%	8.221%
9	15.218	15.080	15.265	VB	557738	7409114	96.16%	9.094%
10	16.238	16.159	16.282	BB	559196	7318384	94.99%	8.983%
11	17.187	17.035	17.242	BB	530867	7262447	94.26%	8.914%

Sum of corrected areas: 81470106

FF102124.M Fri Oct 25 04:59:43 2024

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Fax : 908 789 8922

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: CHEM02

ProjectID: NJ Soil PT

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

DataFile: FF014764.D Analyst Name: YP\AJ Analyst Date: 10-24-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	74647355	149295	146801	1.699

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014764.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 17:33
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024

Integration File: autoint1.e
Quant Time: Oct 25 04:37:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
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...	15.014	6693020	50.858 ug/ml
	Target Compounds			
2)	N-DECANE	4.572	7376938	51.640 ug/ml
3)	N-DODECANE	6.735	7482904	51.565 ug/ml
4)	N-TETRADECANE	8.560	7529297	51.365 ug/ml
5)	N-HEXADECANE	10.166	7532283	51.257 ug/mlm
6)	N-OCTADECANE	11.608	7648406	50.946 ug/ml
7)	N-EICOSANE	12.917	7696007	50.731 ug/ml
8)	N-DOCOSANE	14.115	7426793	50.471 ug/ml
10)	N-TETRACOSANE	15.218	7376568	50.191 ug/mlm
11)	N-HEXACOSANE	16.238	7314793	50.080 ug/ml
12)	N-OCTACOSANE	17.187	7263366	50.269 ug/ml

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014764.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 17:33
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

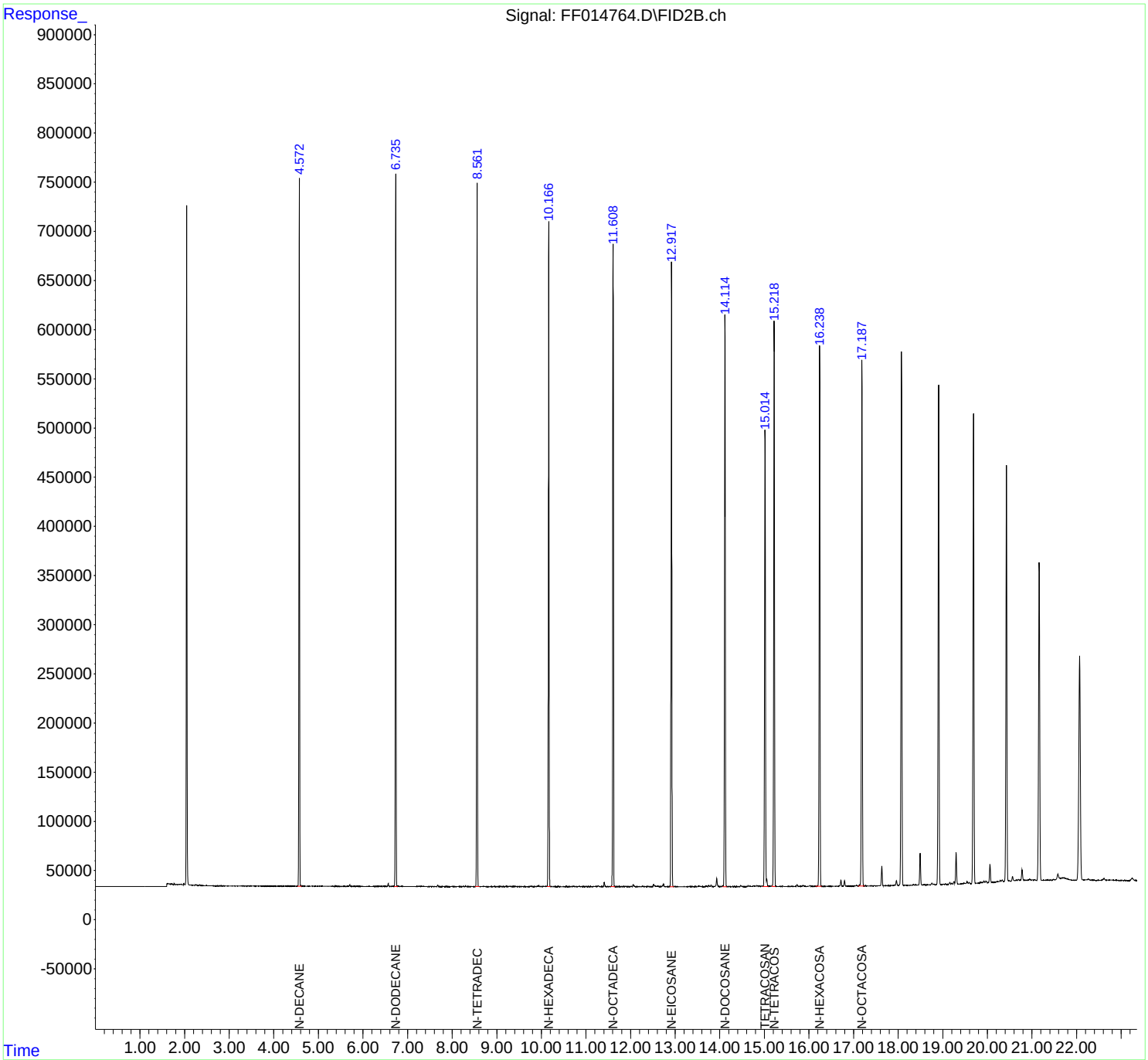
Integration File: autoint1.e
Quant Time: Oct 25 04:37:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

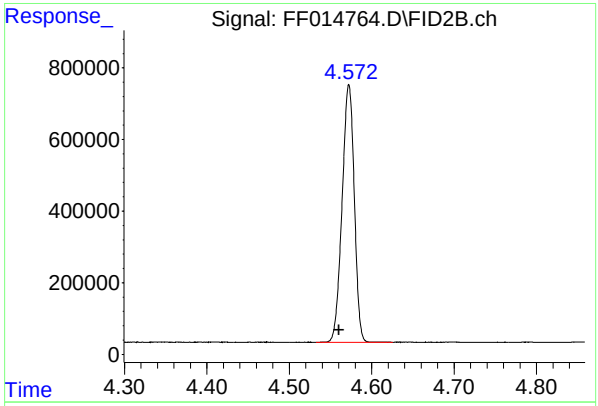
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_F
ClientSampleId :

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024





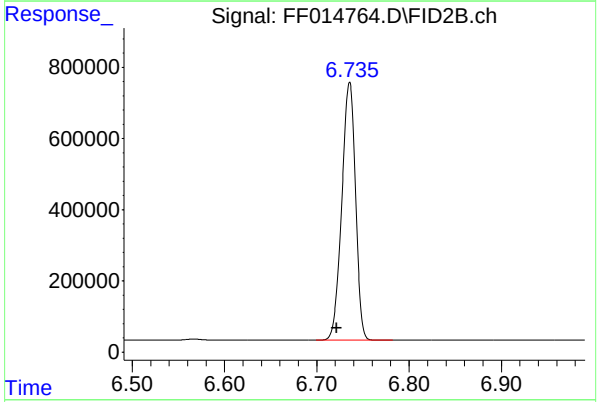
#2 N-DECANE

R.T.: 4.572 min
Delta R.T.: 0.012 min
Response: 7376938
Conc: 51.64 ug/ml

Instrument :
FID_F
ClientSampleId :

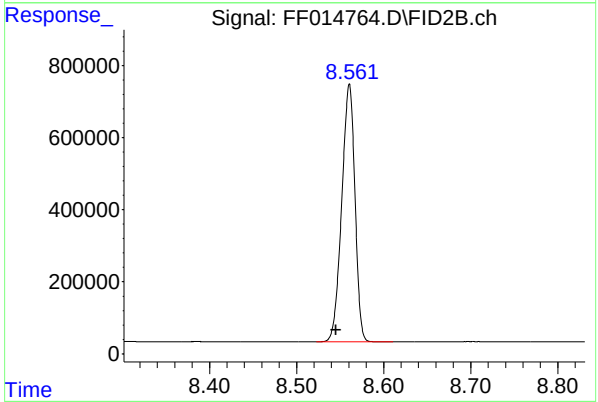
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024



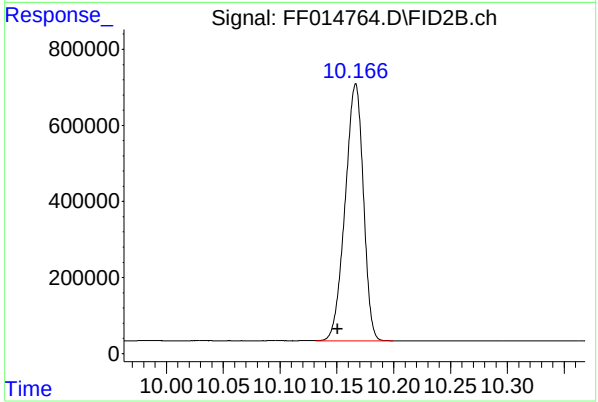
#3 N-DODECANE

R.T.: 6.735 min
Delta R.T.: 0.014 min
Response: 7482904
Conc: 51.57 ug/ml



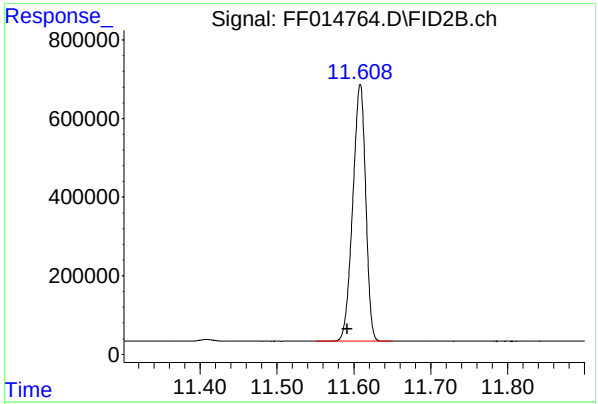
#4 N-TETRADECANE

R.T.: 8.560 min
Delta R.T.: 0.015 min
Response: 7529297
Conc: 51.36 ug/ml



#5 N-HEXADECANE

R.T.: 10.166 min
Delta R.T.: 0.016 min
Response: 7532283
Conc: 51.26 ug/ml m



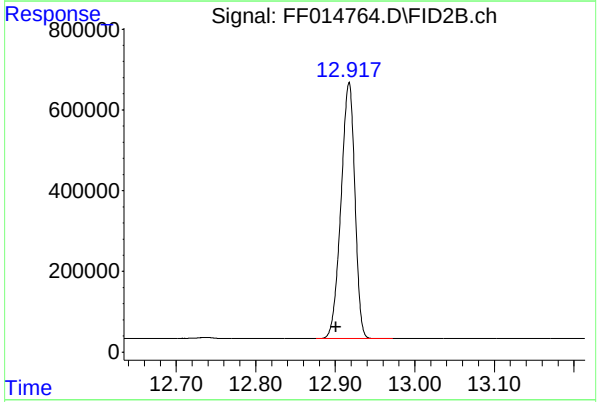
#6 N-OCTADECANE

R.T.: 11.608 min
Delta R.T.: 0.016 min
Response: 7648406
Conc: 50.95 ug/ml

Instrument :
FID_F
ClientSampleId :

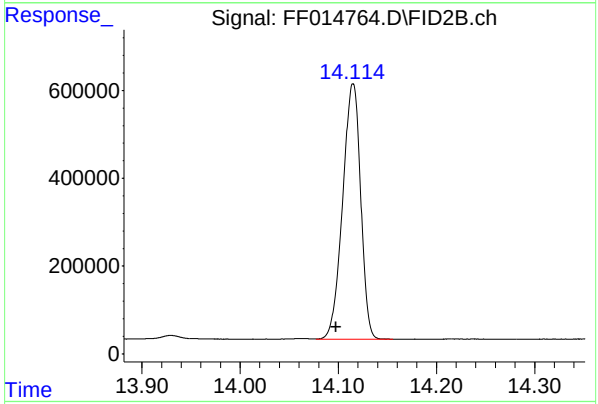
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024



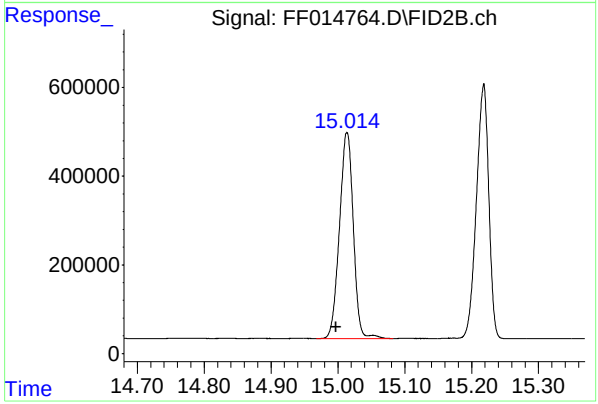
#7 N-EICOSANE

R.T.: 12.917 min
Delta R.T.: 0.016 min
Response: 7696007
Conc: 50.73 ug/ml



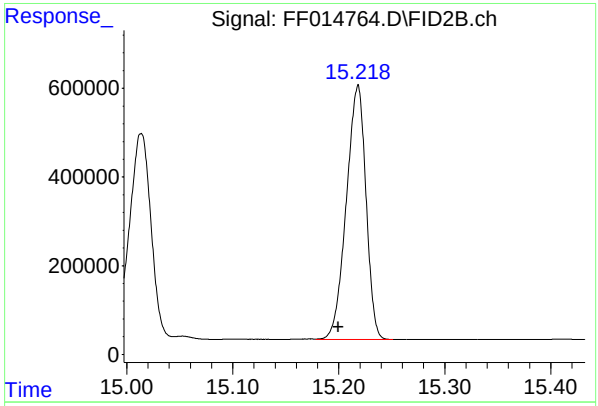
#8 N-DOCOSANE

R.T.: 14.115 min
Delta R.T.: 0.017 min
Response: 7426793
Conc: 50.47 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.014 min
Delta R.T.: 0.017 min
Response: 6693020
Conc: 50.86 ug/ml



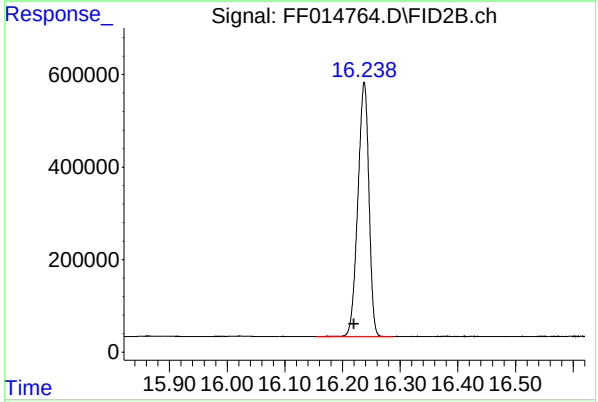
#10 N-TETRACOSANE

R.T.: 15.218 min
Delta R.T.: 0.018 min
Response: 7376568
Conc: 50.19 ug/ml

Instrument :
FID_F
ClientSampleId :

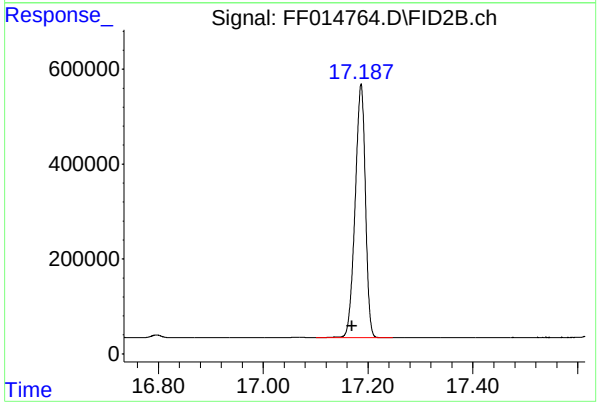
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024



#11 N-HEXACOSANE

R.T.: 16.238 min
Delta R.T.: 0.018 min
Response: 7314793
Conc: 50.08 ug/ml



#12 N-OCTACOSANE

R.T.: 17.187 min
Delta R.T.: 0.017 min
Response: 7263366
Conc: 50.27 ug/ml

Instrument :
FID_F
LabSampleId :
50 PPM TRPH STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF10242
Data File : FF014764.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 17:33
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.572	4.532	4.626	BB	719822	7376938	95.85%	9.064%
2	6.735	6.699	6.782	BB	726436	7482904	97.23%	9.194%
3	8.560	8.522	8.611	BB	717972	7529297	97.83%	9.251%
4	10.166	10.011	10.214	BB	673985	7558410	98.21%	9.287%
5	11.608	11.551	11.651	BB	653619	7648406	99.38%	9.397%
6	12.917	12.876	12.972	BB	635284	7696007	100.00%	9.456%
7	14.115	14.077	14.156	VB	583244	7426793	96.50%	9.125%
8	15.014	14.967	15.082	BV	464423	6693020	86.97%	8.223%
9	15.218	15.082	15.274	VB	570962	7400034	96.15%	9.092%
10	16.238	16.154	16.287	BB	550286	7314793	95.05%	8.987%
11	17.187	17.101	17.247	BB	536198	7263366	94.38%	8.924%
			Sum of corrected areas:			81389969		

FF102124.M Fri Oct 25 05:01:02 2024

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Fax : 908 789 8922

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: CHEM02

ProjectID: NJ Soil PT

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

DataFile: FF014773.D Analyst Name: YP\AJ Analyst Date: 10-24-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	73338469	146677	146801	0.084

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014773.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 23:50
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024

Integration File: autoint1.e
Quant Time: Oct 25 04:38:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
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...	15.018	6505657	49.434 ug/ml
	Target Compounds			
2)	N-DECANE	4.574	7407028	51.850 ug/ml
3)	N-DODECANE	6.738	7469347	51.472 ug/ml
4)	N-TETRADECANE	8.563	7451160	50.832 ug/ml
5)	N-HEXADECANE	10.169	7425412	50.530 ug/ml
6)	N-OCTADECANE	11.612	7501377	49.966 ug/ml
7)	N-EICOSANE	12.921	7525160	49.605 ug/ml
8)	N-DOCOSANE	14.119	7252608	49.287 ug/ml
10)	N-TETRACOSANE	15.221	7193740	48.947 ug/mlm
11)	N-HEXACOSANE	16.242	7091680	48.553 ug/ml
12)	N-OCTACOSANE	17.191	7020957	48.591 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014773.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 23:50
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

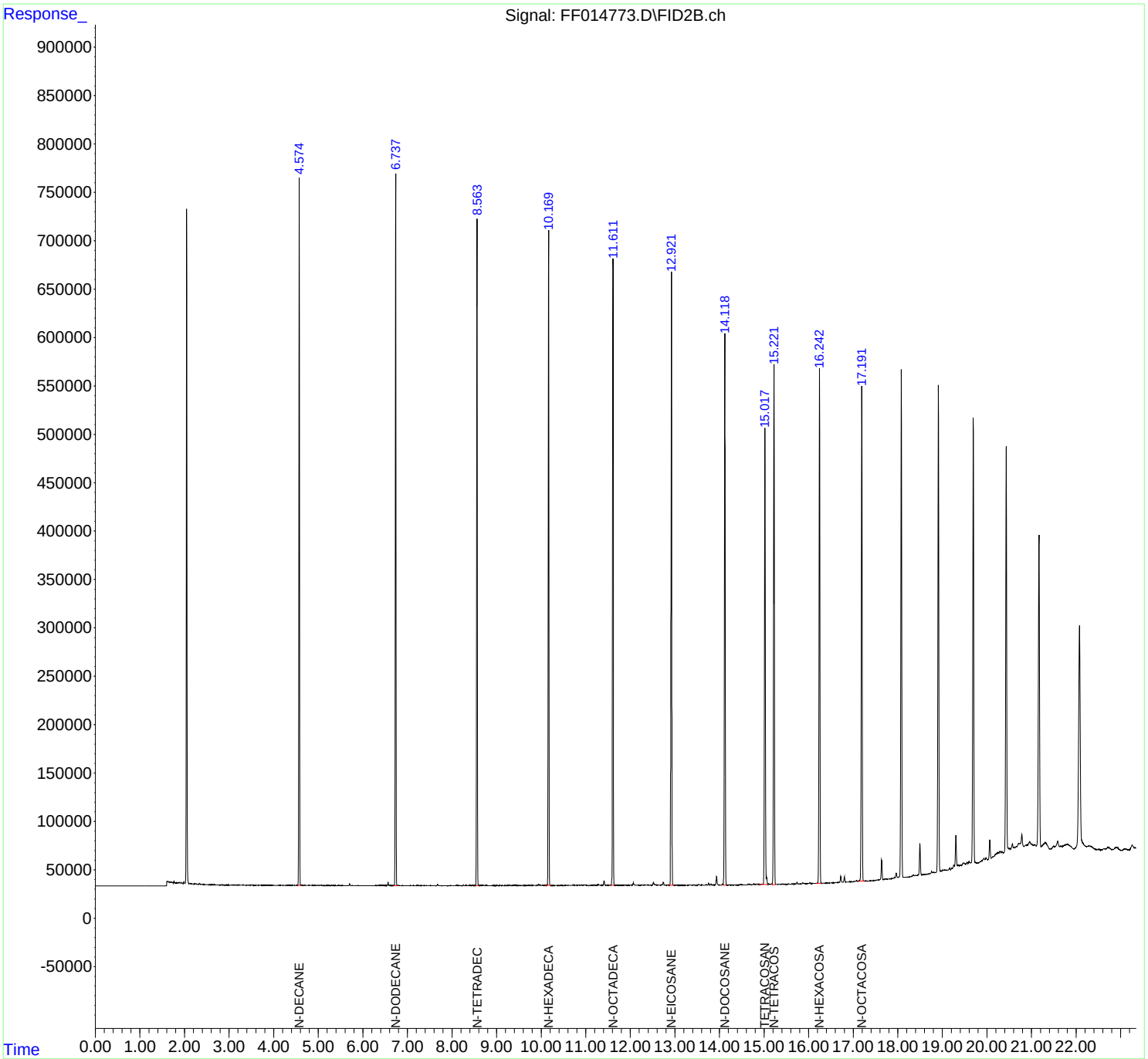
Integration File: autoint1.e
Quant Time: Oct 25 04:38:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

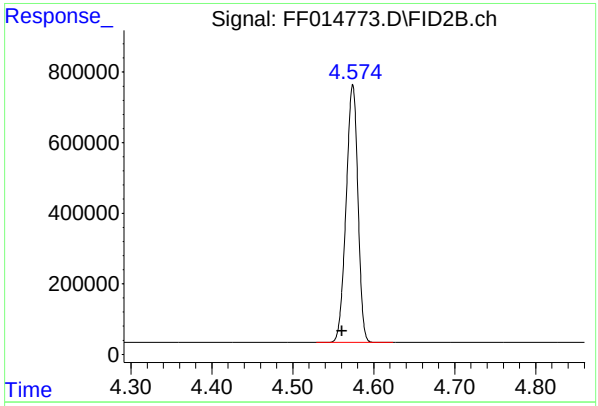
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_F
ClientSampleId :

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024





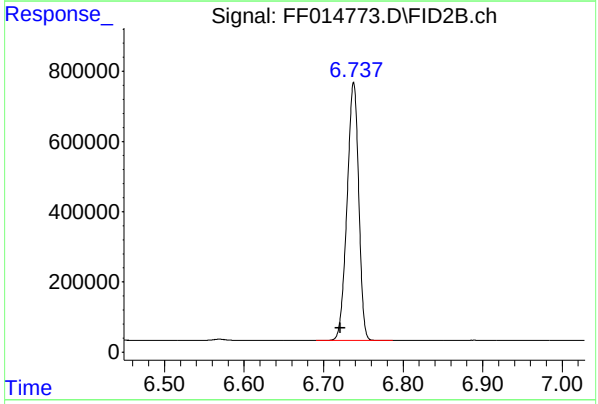
#2 N-DECANE

R.T.: 4.574 min
Delta R.T.: 0.013 min
Response: 7407028
Conc: 51.85 ug/ml

Instrument :
FID_F
ClientSampleId :

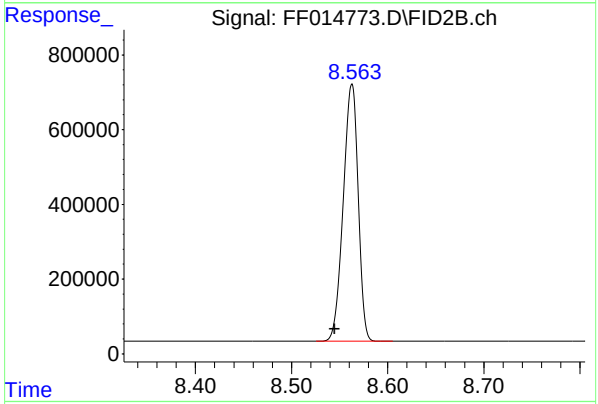
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024



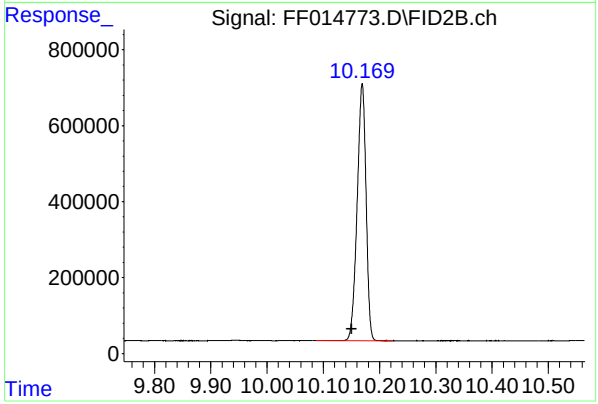
#3 N-DODECANE

R.T.: 6.738 min
Delta R.T.: 0.016 min
Response: 7469347
Conc: 51.47 ug/ml



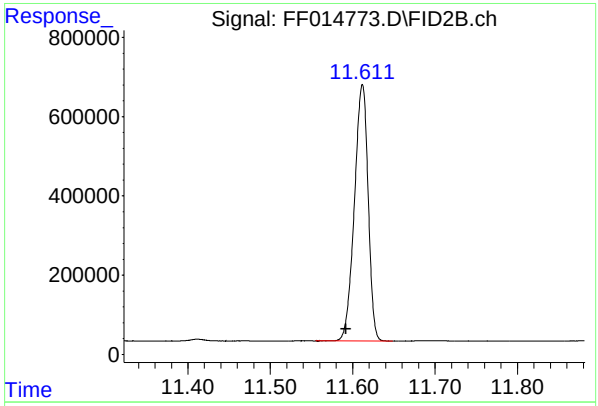
#4 N-TETRADECANE

R.T.: 8.563 min
Delta R.T.: 0.018 min
Response: 7451160
Conc: 50.83 ug/ml



#5 N-HEXADECANE

R.T.: 10.169 min
Delta R.T.: 0.019 min
Response: 7425412
Conc: 50.53 ug/ml



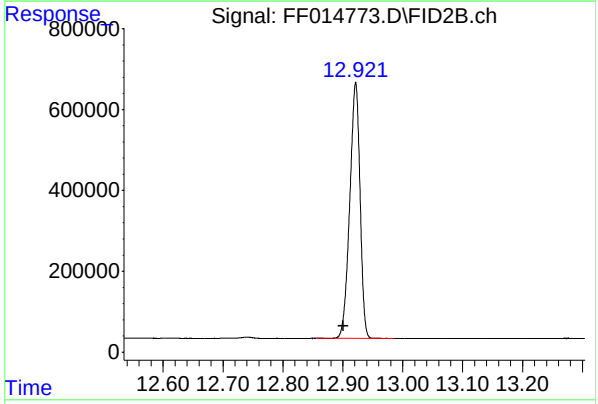
#6 N-OCTADECANE

R.T.: 11.612 min
Delta R.T.: 0.020 min
Response: 7501377
Conc: 49.97 ug/ml

Instrument :
FID_F
ClientSampleId :

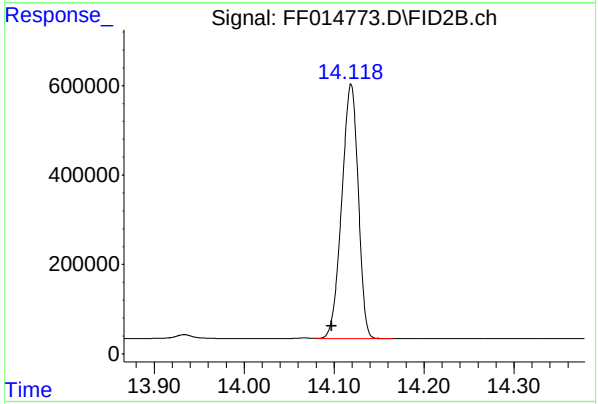
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024



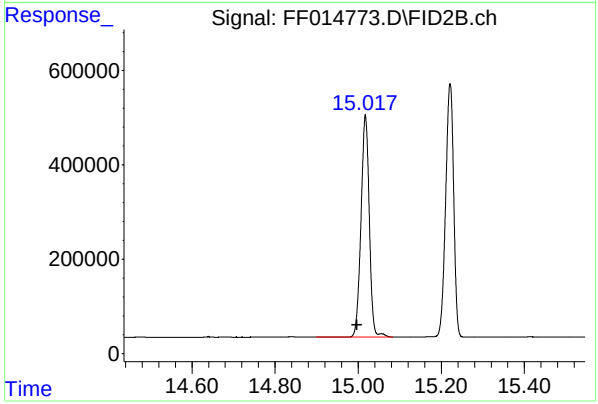
#7 N-EICOSANE

R.T.: 12.921 min
Delta R.T.: 0.021 min
Response: 7525160
Conc: 49.60 ug/ml



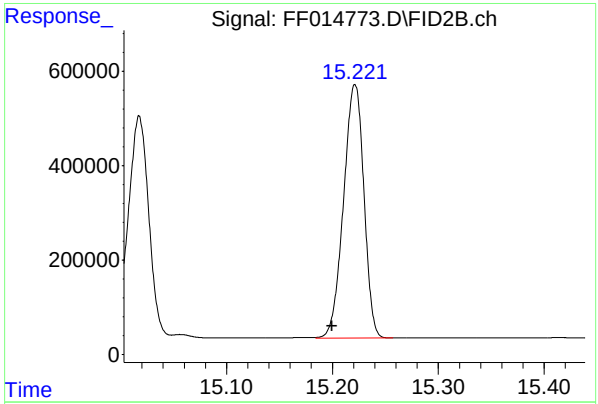
#8 N-DOCOSANE

R.T.: 14.119 min
Delta R.T.: 0.021 min
Response: 7252608
Conc: 49.29 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.018 min
Delta R.T.: 0.021 min
Response: 6505657
Conc: 49.43 ug/ml



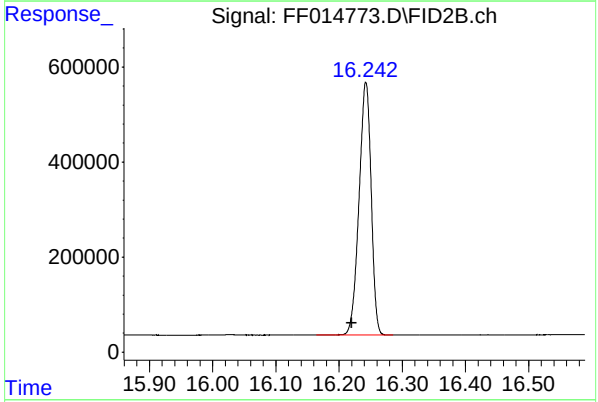
#10 N-TETRACOSANE

R.T.: 15.221 min
Delta R.T.: 0.021 min
Response: 7193740
Conc: 48.95 ug/ml

Instrument :
FID_F
ClientSampleId :

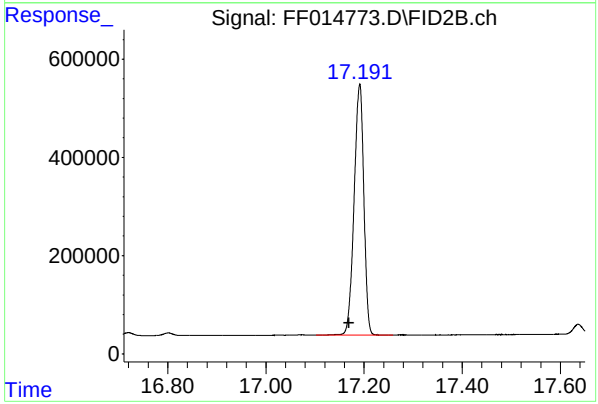
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024



#11 N-HEXACOSANE

R.T.: 16.242 min
Delta R.T.: 0.023 min
Response: 7091680
Conc: 48.55 ug/ml



#12 N-OCTACOSANE

R.T.: 17.191 min
Delta R.T.: 0.022 min
Response: 7020957
Conc: 48.59 ug/ml

Instrument :
FID_F
LabSampleId :
50 PPM TRPH STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF10242
Data File : FF014773.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 23:50
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.574	4.529	4.624	BB	730845	7407028	98.43%	9.276%
2	6.738	6.690	6.787	BB	735072	7469347	99.26%	9.354%
3	8.563	8.525	8.605	BB	688305	7451160	99.02%	9.331%
4	10.169	10.087	10.224	BB	677493	7425412	98.67%	9.299%
5	11.612	11.555	11.649	BB	648787	7501377	99.68%	9.394%
6	12.921	12.855	12.984	BB	635325	7525160	100.00%	9.424%
7	14.119	14.080	14.165	VB	570151	7252608	96.38%	9.082%
8	15.018	14.899	15.084	BV	471124	6505657	86.45%	8.147%
9	15.221	15.084	15.277	VB	538226	7202623	95.71%	9.020%
10	16.242	16.164	16.285	BB	532955	7091680	94.24%	8.881%
11	17.191	17.102	17.259	BB	510094	7020957	93.30%	8.792%

Sum of corrected areas: 79853008

FF102124.M Fri Oct 25 05:01:42 2024

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: CHEM02

ProjectID: NJ Soil PT

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

DataFile: FF014776.D Analyst Name: YP\AJ Analyst Date: 10-25-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	73865716	147731	146801	0.634

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102524\
Data File : FF014776.D
Signal(s) : FID2B.ch
Acq On : 25 Oct 2024 06:40
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Oct 26 04:02:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
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...	15.015	6575242	49.963 ug/ml
	Target Compounds			
2)	N-DECANE	4.573	7463422	52.245 ug/ml
3)	N-DODECANE	6.736	7520343	51.823 ug/ml
4)	N-TETRADECANE	8.561	7499682	51.163 ug/ml
5)	N-HEXADECANE	10.168	7474151	50.861 ug/ml
6)	N-OCTADECANE	11.609	7551356	50.299 ug/ml
7)	N-EICOSANE	12.918	7587094	50.013 ug/ml
8)	N-DOCOSANE	14.116	7307940	49.663 ug/ml
10)	N-TETRACOSANE	15.220	7239868	49.261 ug/ml
11)	N-HEXACOSANE	16.240	7145621	48.922 ug/ml
12)	N-OCTACOSANE	17.190	7076239	48.974 ug/ml

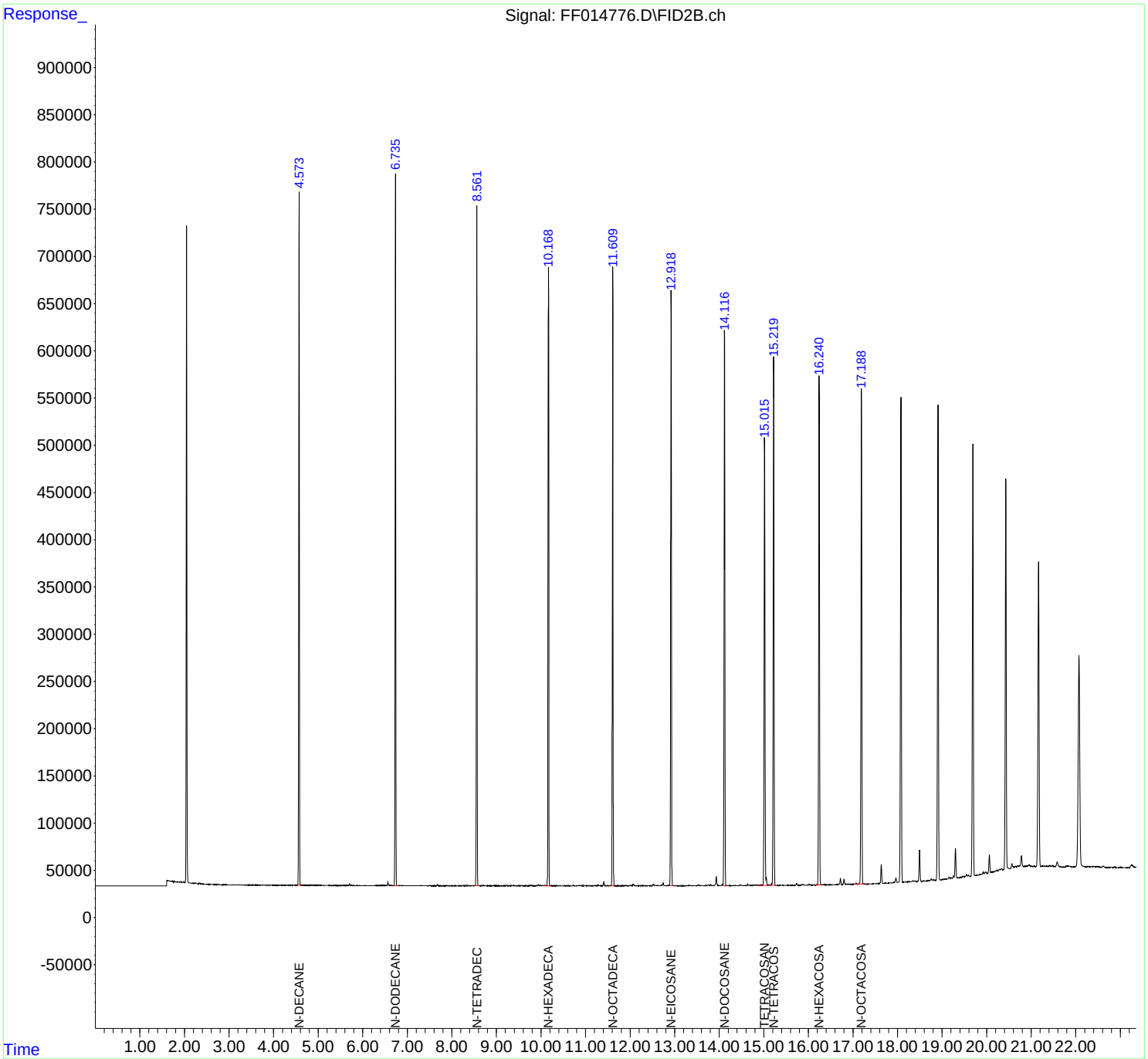
(f)=RT Delta > 1/2 Window (m)=manual int.

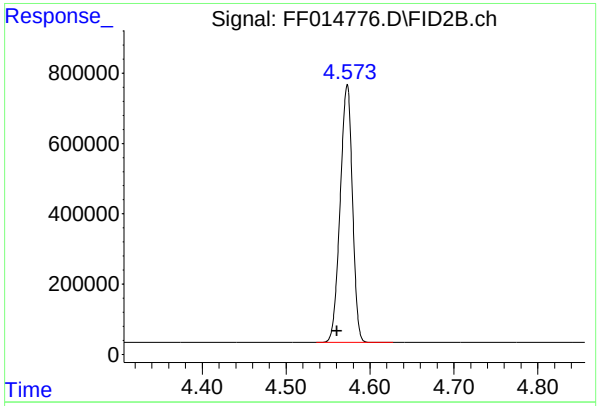
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102524\
Data File : FF014776.D
Signal(s) : FID2B.ch
Acq On : 25 Oct 2024 06:40
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Oct 26 04:02:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

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

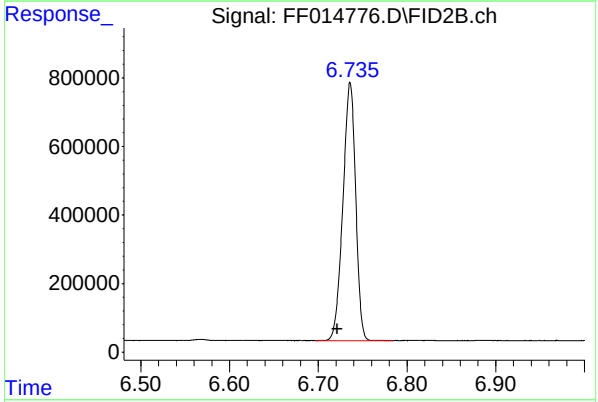




#2 N-DECANE

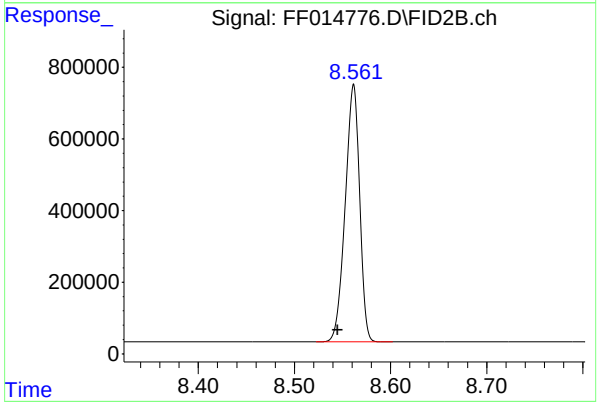
R.T.: 4.573 min
Delta R.T.: 0.012 min
Response: 7463422
Conc: 52.25 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD



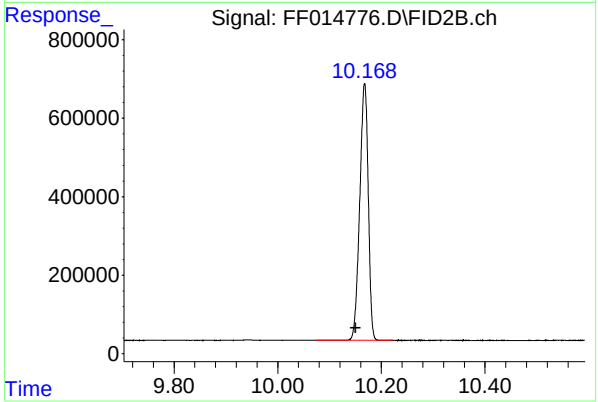
#3 N-DODECANE

R.T.: 6.736 min
Delta R.T.: 0.014 min
Response: 7520343
Conc: 51.82 ug/ml



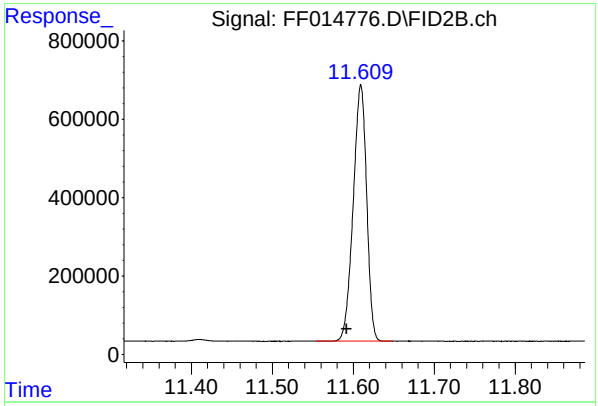
#4 N-TETRADECANE

R.T.: 8.561 min
Delta R.T.: 0.016 min
Response: 7499682
Conc: 51.16 ug/ml



#5 N-HEXADECANE

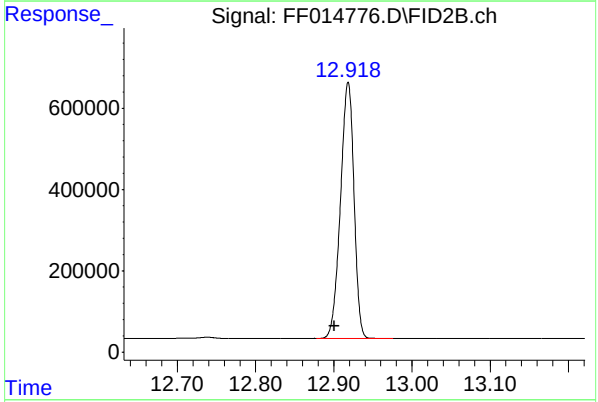
R.T.: 10.168 min
Delta R.T.: 0.017 min
Response: 7474151
Conc: 50.86 ug/ml



#6 N-OCTADECANE

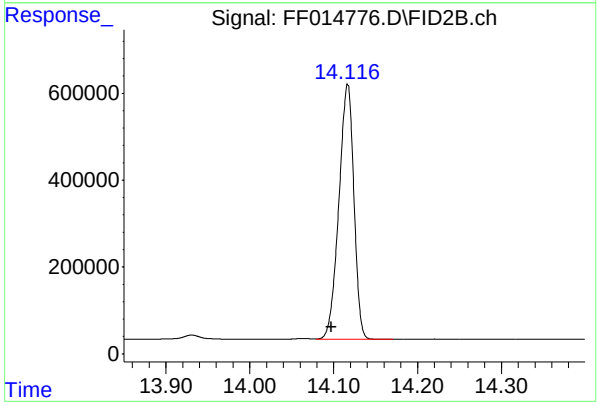
R.T.: 11.609 min
Delta R.T.: 0.017 min
Response: 7551356
Conc: 50.30 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD



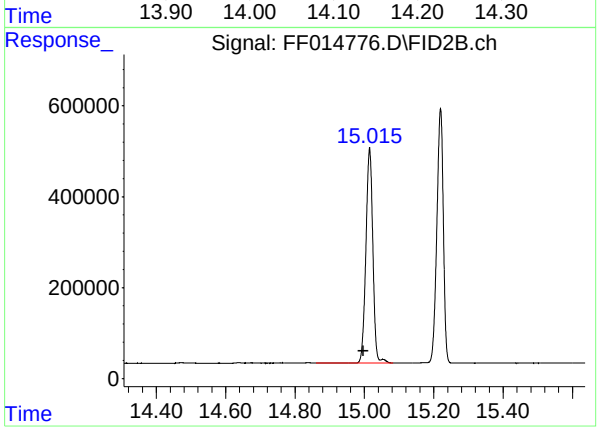
#7 N-EICOSANE

R.T.: 12.918 min
Delta R.T.: 0.018 min
Response: 7587094
Conc: 50.01 ug/ml



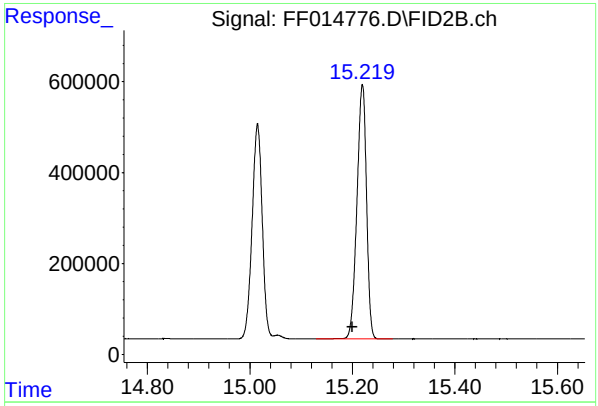
#8 N-DOCOSANE

R.T.: 14.116 min
Delta R.T.: 0.019 min
Response: 7307940
Conc: 49.66 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

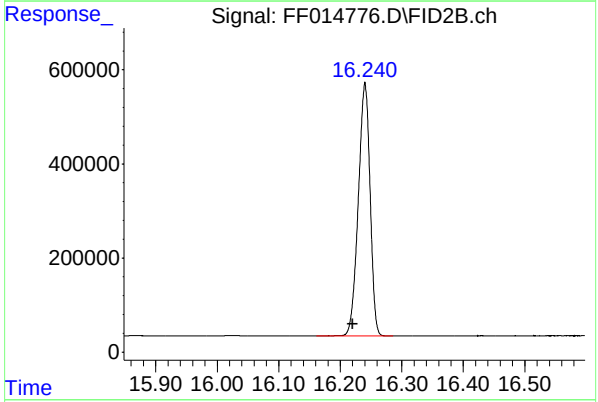
R.T.: 15.015 min
Delta R.T.: 0.018 min
Response: 6575242
Conc: 49.96 ug/ml



#10 N-TETRACOSANE

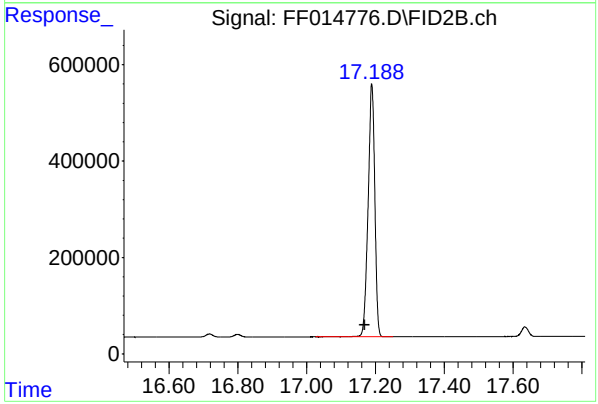
R.T.: 15.220 min
Delta R.T.: 0.020 min
Response: 7239868
Conc: 49.26 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD



#11 N-HEXACOSANE

R.T.: 16.240 min
Delta R.T.: 0.020 min
Response: 7145621
Conc: 48.92 ug/ml



#12 N-OCTACOSANE

R.T.: 17.190 min
Delta R.T.: 0.020 min
Response: 7076239
Conc: 48.97 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102524\
Data File : FF014776.D
Signal(s) : FID2B.ch
Acq On : 25 Oct 2024 06:40
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.573	4.536	4.627	BB	732891	7463422	98.37%	9.278%
2	6.736	6.697	6.784	BB	754691	7520343	99.12%	9.349%
3	8.561	8.522	8.602	BB	716519	7499682	98.85%	9.323%
4	10.168	10.074	10.222	BB	655585	7474151	98.51%	9.291%
5	11.609	11.554	11.649	BB	655148	7551356	99.53%	9.387%
6	12.918	12.877	12.976	BB	632381	7587094	100.00%	9.432%
7	14.116	14.079	14.171	VB	587897	7307940	96.32%	9.085%
8	15.015	14.861	15.082	BB	472479	6575242	86.66%	8.174%
9	15.220	15.129	15.279	BB	560481	7239868	95.42%	9.000%
10	16.240	16.161	16.286	BB	538974	7145621	94.18%	8.883%
11	17.190	17.027	17.251	BB	525092	7076239	93.27%	8.797%

Sum of corrected areas: 80440958

FF102124.M Sat Oct 26 04:41:11 2024

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: CHEM02

ProjectID: NJ Soil PT

Lab Code: CHEM Case No.: P4495 SAS No.: P4495 SDG No.: P4495

DataFile: FF014787.D Analyst Name: YP\AJ Analyst Date: 10-25-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	76936905	153874	146801	4.818

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102524\
Data File : FF014787.D
Signal(s) : FID2B.ch
Acq On : 25 Oct 2024 12:46
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/28/2024
Supervised By :Ankita Jodhani 10/28/2024

Integration File: autoint1.e
Quant Time: Oct 26 04:03:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
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...	15.014	6717486	51.044 ug/mlm
	Target Compounds			
2)	N-DECANE	4.573	7777941	54.447 ug/ml
3)	N-DODECANE	6.736	7851108	54.103 ug/ml
4)	N-TETRADECANE	8.561	7834568	53.447 ug/ml
5)	N-HEXADECANE	10.167	7804928	53.112 ug/ml
6)	N-OCTADECANE	11.609	7881602	52.499 ug/ml
7)	N-EICOSANE	12.918	7899420	52.072 ug/ml
8)	N-DOCOSANE	14.116	7599506	51.645 ug/ml
10)	N-TETRACOSANE	15.219	7541643	51.315 ug/ml
11)	N-HEXACOSANE	16.239	7408570	50.722 ug/ml
12)	N-OCTACOSANE	17.189	7337619	50.783 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102524\
Data File : FF014787.D
Signal(s) : FID2B.ch
Acq On : 25 Oct 2024 12:46
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

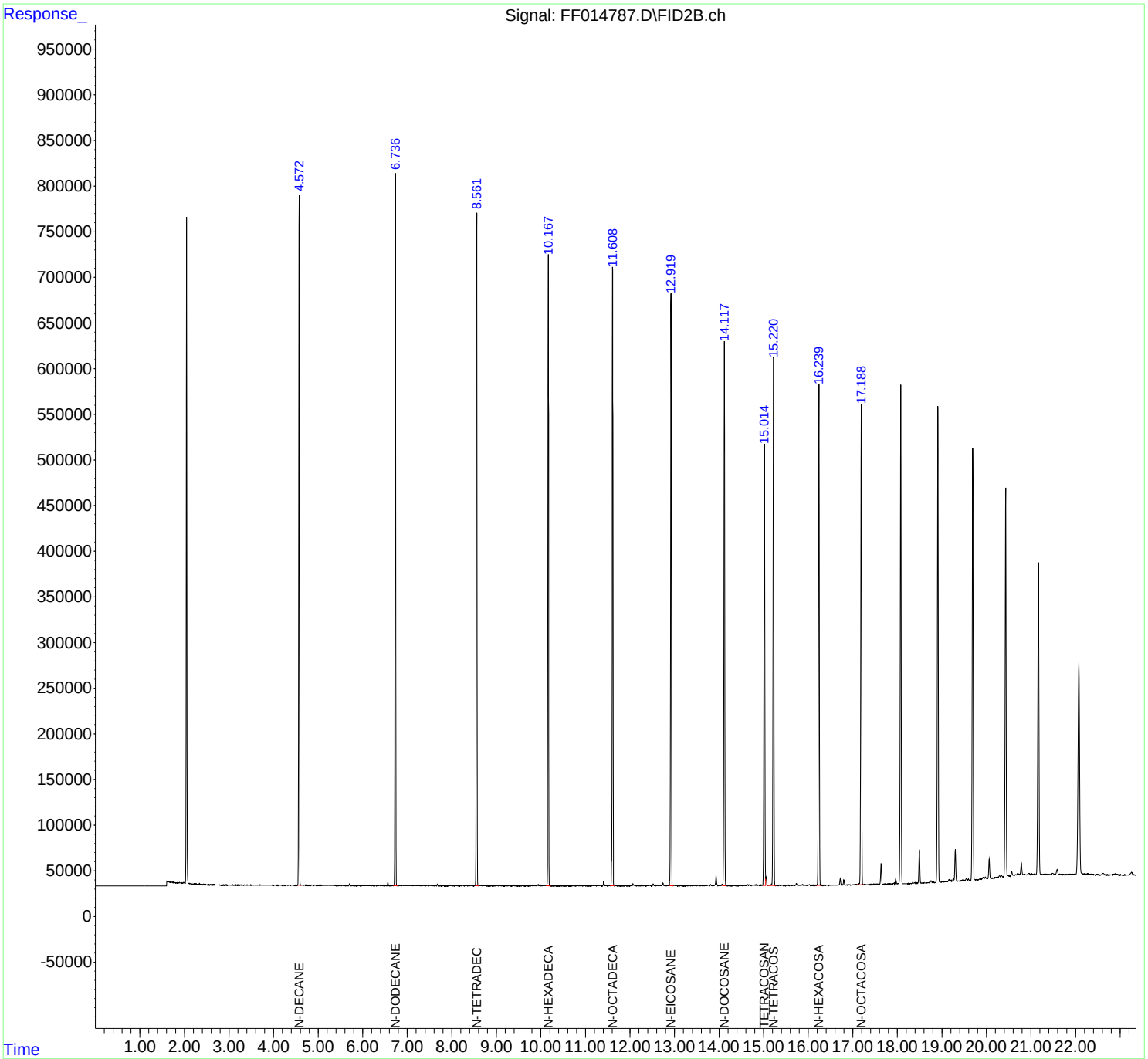
Integration File: autoint1.e
Quant Time: Oct 26 04:03:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

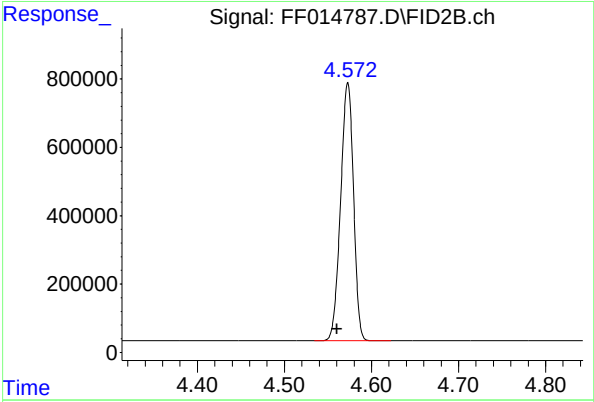
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/28/2024
Supervised By :Ankita Jodhani 10/28/2024





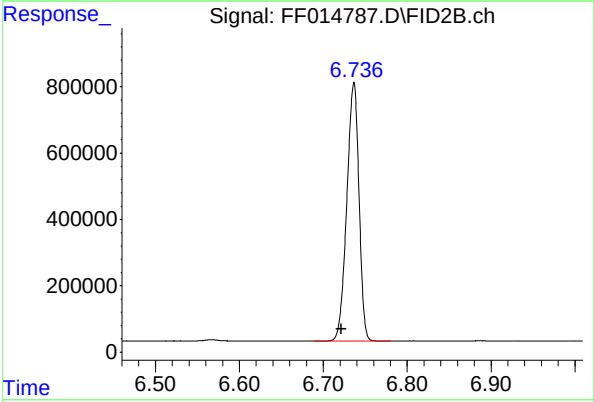
#2 N-DECANE

R.T.: 4.573 min
Delta R.T.: 0.012 min
Response: 7777941
Conc: 54.45 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

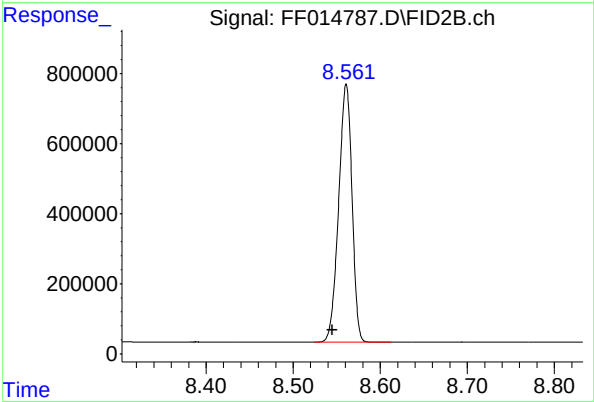
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/28/2024
Supervised By :Ankita Jodhani 10/28/2024



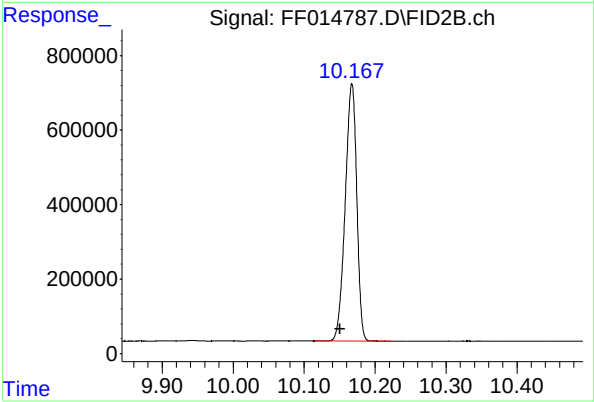
#3 N-DODECANE

R.T.: 6.736 min
Delta R.T.: 0.015 min
Response: 7851108
Conc: 54.10 ug/ml



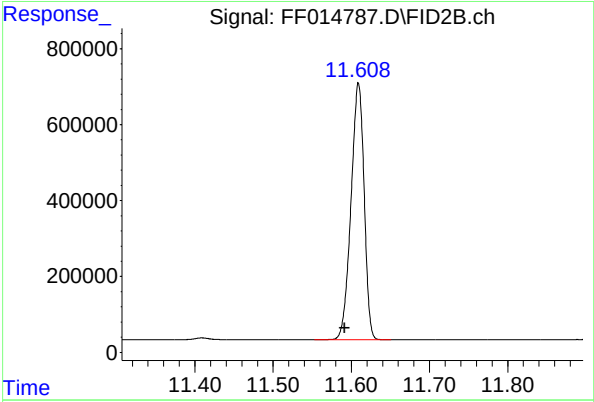
#4 N-TETRADECANE

R.T.: 8.561 min
Delta R.T.: 0.016 min
Response: 7834568
Conc: 53.45 ug/ml



#5 N-HEXADECANE

R.T.: 10.167 min
Delta R.T.: 0.017 min
Response: 7804928
Conc: 53.11 ug/ml



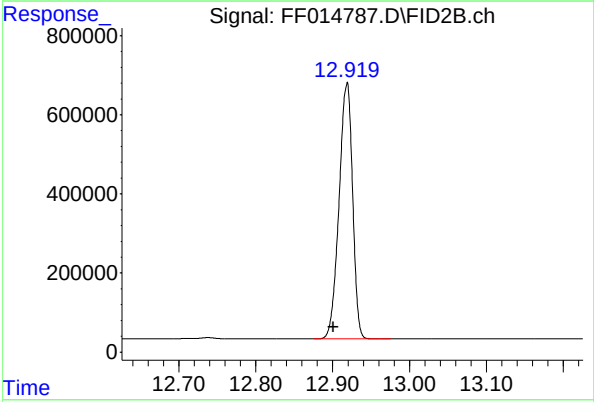
#6 N-OCTADECANE

R.T.: 11.609 min
Delta R.T.: 0.017 min
Response: 7881602
Conc: 52.50 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

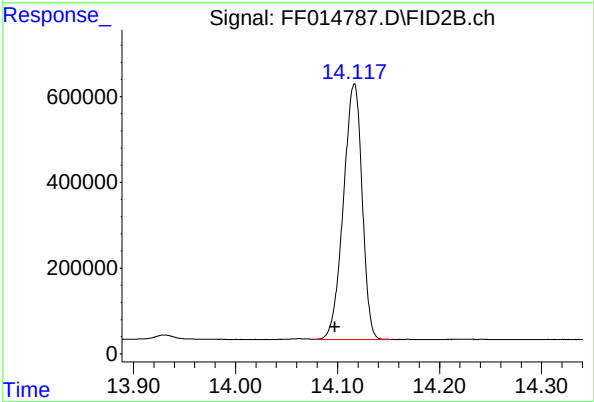
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/28/2024
Supervised By :Ankita Jodhani 10/28/2024



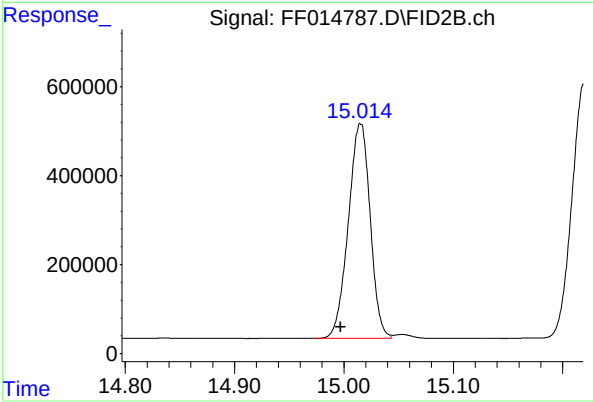
#7 N-EICOSANE

R.T.: 12.918 min
Delta R.T.: 0.018 min
Response: 7899420
Conc: 52.07 ug/ml



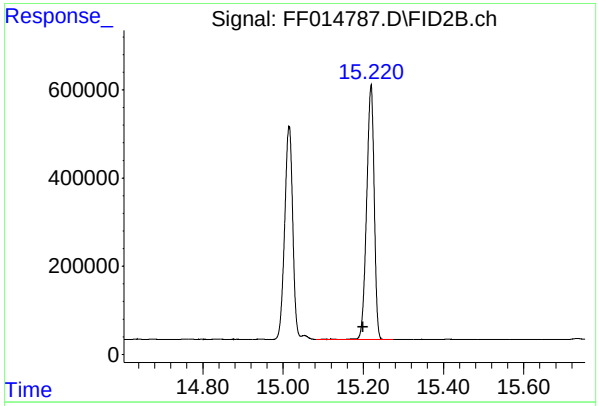
#8 N-DOCOSANE

R.T.: 14.116 min
Delta R.T.: 0.019 min
Response: 7599506
Conc: 51.64 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.014 min
Delta R.T.: 0.017 min
Response: 6717486
Conc: 51.04 ug/ml m



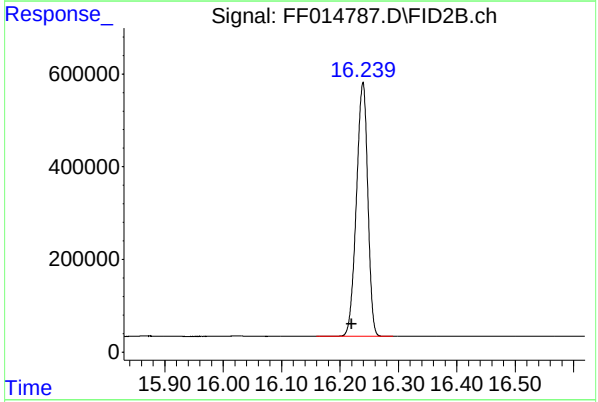
#10 N-TETRACOSANE

R.T.: 15.219 min
Delta R.T.: 0.019 min
Response: 7541643
Conc: 51.31 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

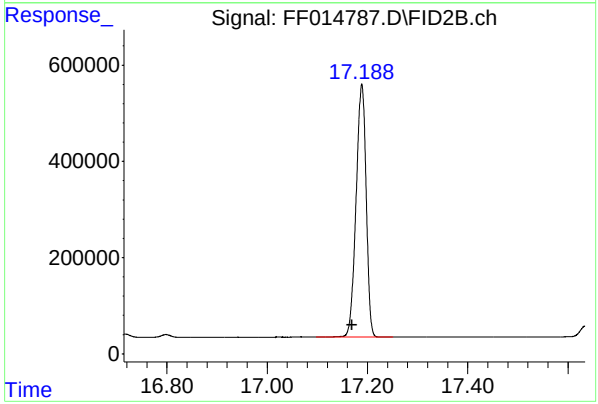
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/28/2024
Supervised By :Ankita Jodhani 10/28/2024



#11 N-HEXACOSANE

R.T.: 16.239 min
Delta R.T.: 0.019 min
Response: 7408570
Conc: 50.72 ug/ml



#12 N-OCTACOSANE

R.T.: 17.189 min
Delta R.T.: 0.019 min
Response: 7337619
Conc: 50.78 ug/ml

Instrument :
FID_F
LabSampleId :
50 PPM TRPH STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/28/2024
Supervised By :Ankita Jodhani 10/28/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF10252
Data File : FF014787.D
Signal(s) : FID2B.ch
Acq On : 25 Oct 2024 12:46
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.573	4.537	4.612	BB	755589	7773939	98.41%	9.322%
2	6.737	6.701	6.781	BB	783574	7851125	99.39%	9.415%
3	8.561	8.524	8.596	BB	735930	7833548	99.17%	9.394%
4	10.167	10.131	10.206	BB	691461	7791726	98.64%	9.344%
5	11.609	11.559	11.651	BB	677129	7879306	99.75%	9.449%
6	12.919	12.877	12.964	BB	648652	7899332	100.00%	9.473%
7	14.117	14.077	14.152	VB	595742	7599351	96.20%	9.113%
8	15.015	14.972	15.045	BV	477971	6570450	83.18%	7.879%
9	15.219	15.181	15.267	BB	574837	7481207	94.71%	8.971%
10	16.239	16.179	16.291	BB	547496	7402521	93.71%	8.877%
11	17.189	17.132	17.241	BB	526190	7309173	92.53%	8.765%
			Sum of corrected areas:			83391677		

FF102124.M Tue Dec 03 00:30:14 2024

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

Analytical Sequence

Client: Chemtech Consulting Group **SDG No.:** P4495

Project: NJ Soil PT **Instrument ID:** FID_F

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 **14.9988**

EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	24 Oct 2024 12:00	FF014756.D	15.009	
50 PPM TRPH STD	50 PPM TRPH STD	24 Oct 2024 12:59	FF014757.D	15.014	
PB164381BL	PB164381BL	24 Oct 2024 14:33	FF014759.D	15.010	
PB164381BS	PB164381BS	24 Oct 2024 15:02	FF014760.D	15.011	
PIBLK02	I.BLK02	24 Oct 2024 16:35	FF014763.D	15.010	
50 PPM TRPH STD	50 PPM TRPH STD	24 Oct 2024 17:33	FF014764.D	15.014	
EX-5-TPH-1MS	P4518-01MS	24 Oct 2024 19:58	FF014766.D	14.969	
EX-5-TPH-1MSD	P4518-01MSD	24 Oct 2024 20:27	FF014767.D	14.973	
PIBLK03	I.BLK03	24 Oct 2024 22:52	FF014772.D	15.015	
50 PPM TRPH STD	50 PPM TRPH STD	24 Oct 2024 23:50	FF014773.D	15.018	
PIBLK04	I.BLK04	25 Oct 2024 06:11	FF014775.D	15.012	
50 PPM TRPH STD	50 PPM TRPH STD	25 Oct 2024 06:40	FF014776.D	15.015	
PT-DIES-SOIL	P4495-14	25 Oct 2024 08:27	FF014778.D	15.009	
PIBLK05	I.BLK05	25 Oct 2024 12:17	FF014786.D	15.011	
50 PPM TRPH STD	50 PPM TRPH STD	25 Oct 2024 12:46	FF014787.D	15.015	

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

QC Limits	Lower Limit	Upper Limits
(± 0.10 minutes)	14.8988	15.0988

QC SAMPLE DATA

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164381BL	SDG No.:	P4495
Lab Sample ID:	PB164381BL	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
FF014759.D	1	10/24/24 11:10	10/24/24 14:33	PB164381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	185	U	185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.5		37 - 130	77%	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_F\Data\FF102424\
Data File : FF014759.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 14:33
Operator : YP\AJ
Sample : PB164381BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB164381BL

Integration File: autoint1.e
Quant Time: Oct 25 04:36:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
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...	15.010	2035886	15.470 ug/ml
Target Compounds				

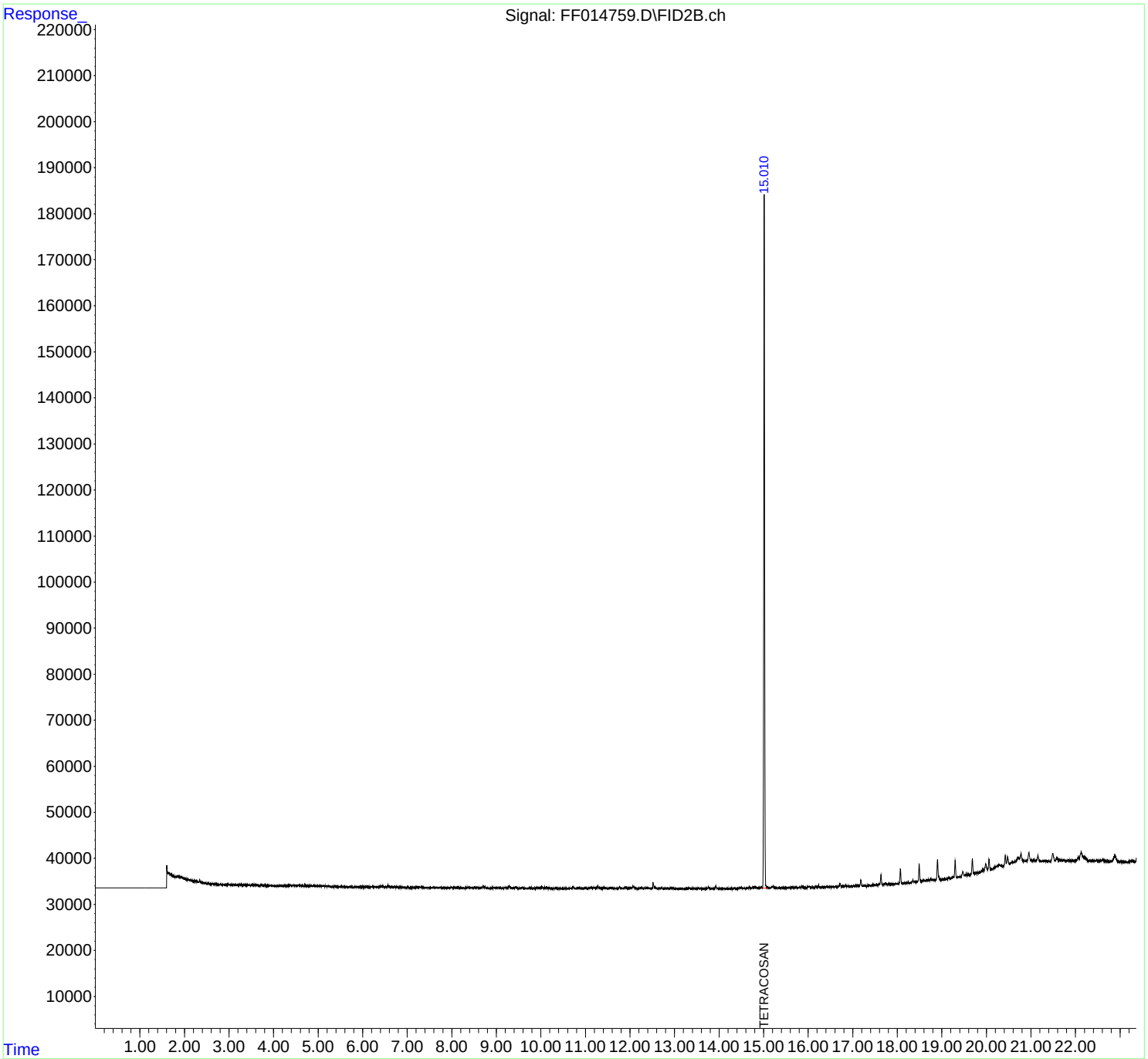
(f)=RT Delta > 1/2 Window (m)=manual int.

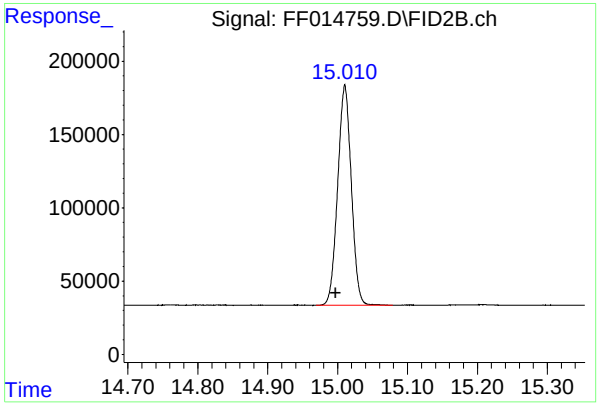
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014759.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 14:33
Operator : YP\AJ
Sample : PB164381BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB164381BL

Integration File: autoint1.e
Quant Time: Oct 25 04:36:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.010 min
Delta R.T.: 0.013 mi
Response: 2035886
Conc: 15.47 ug/m

Instrument :
FID_F
ClientSampleId :
PB164381BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014759.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 14:33
Sample : PB164381BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.010	14.969	15.079	BB	150762	2035886	100.00%	100.000%

Sum of corrected areas: 2035886

FF102124.M Fri Oct 25 05:00:12 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	PIBLK-FF014756.D	SDG No.:	P4495
Lab Sample ID:	I.BLK-FF014756.D	Matrix:	Water
Analytical Method:		% 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
FF014756.D	1		10/24/24	FF102424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	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_F\Data\FF102424\
Data File : FF014756.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 12:00
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :

Integration File: autoint1.e
Quant Time: Oct 25 04:35:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
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...	15.009	2144842	16.298 ug/ml
Target Compounds				

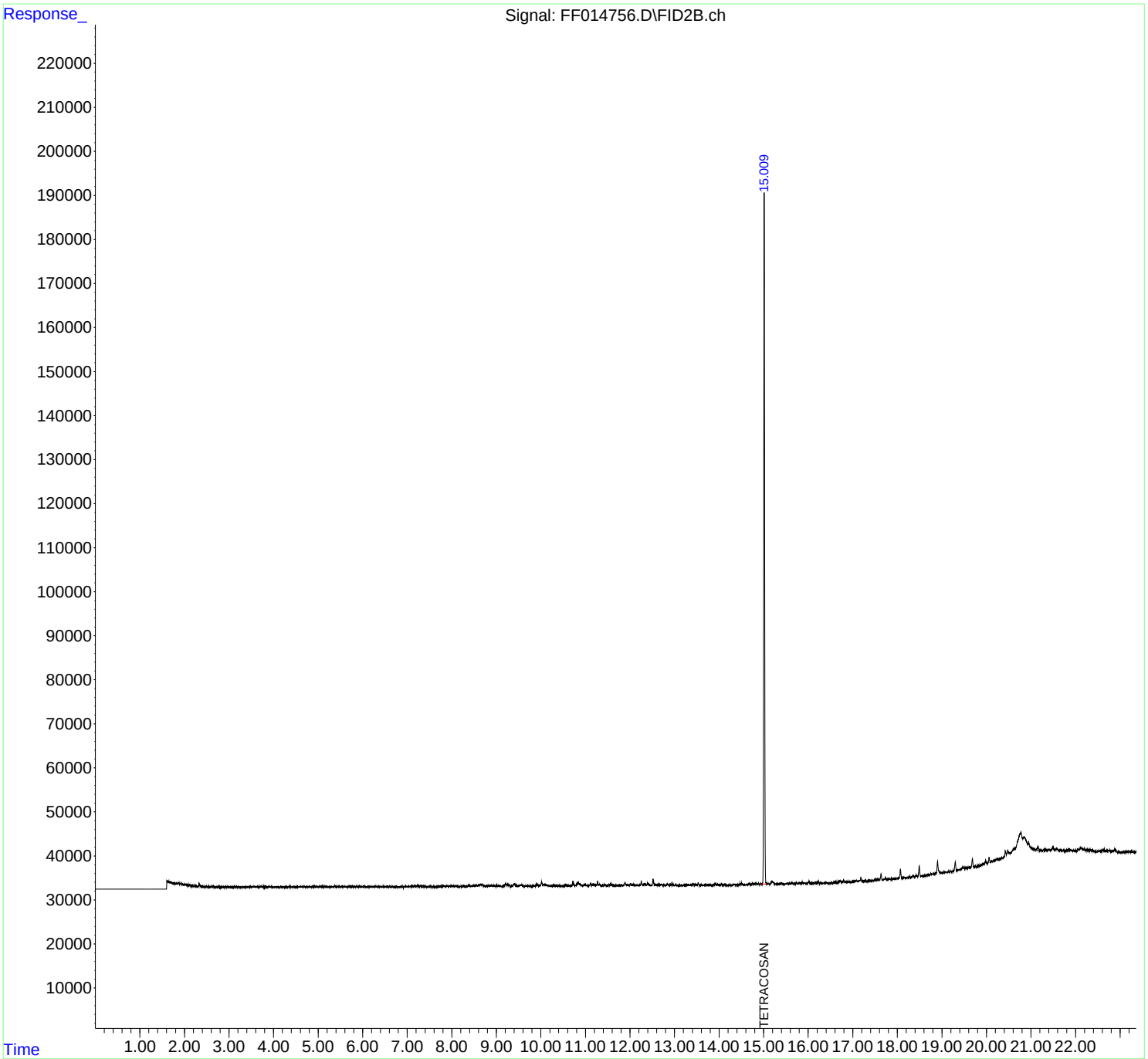
(f)=RT Delta > 1/2 Window (m)=manual int.

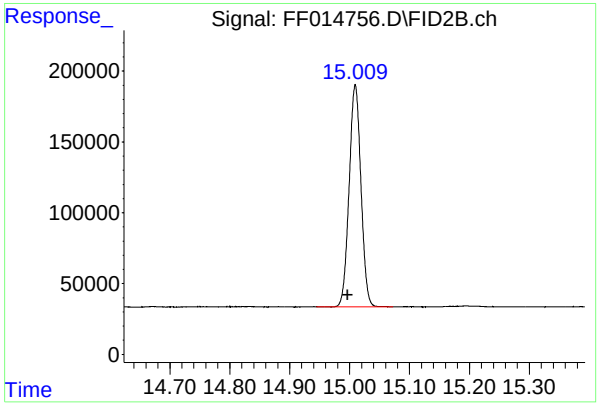
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014756.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 12:00
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :

Integration File: autoint1.e
Quant Time: Oct 25 04:35:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.009 min
Delta R.T.: 0.012 mi
Response: 2144842
Conc: 16.30 ug/m

Instrument :
FID_F
ClientSampleId :

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014756.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 12:00
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.009	14.944	15.072	BB	156820	2144842	100.00%	100.000%

Sum of corrected areas: 2144842

FF102124.M Fri Oct 25 04:59:23 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	PIBLK-FF014763.D	SDG No.:	P4495
Lab Sample ID:	I.BLK-FF014763.D	Matrix:	Water
Analytical Method:		% 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
FF014763.D	1		10/24/24	FF102424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.1		29 - 130	85%	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_F\Data\FF102424\
Data File : FF014763.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 16:35
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :

Integration File: autoint1.e
Quant Time: Oct 25 04:37:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
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...	15.010	2244176	17.053 ug/ml
Target Compounds			

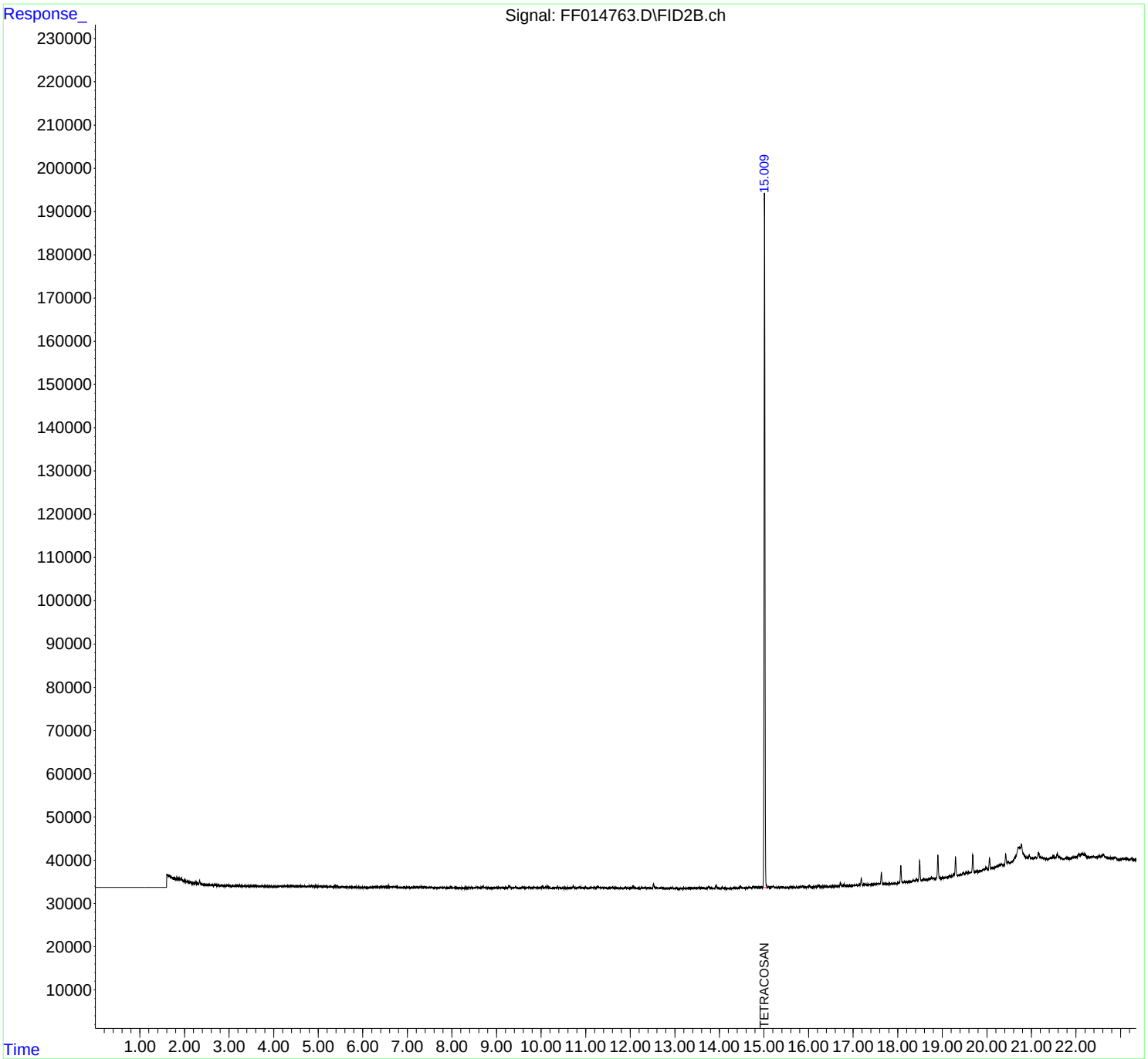
(f)=RT Delta > 1/2 Window (m)=manual int.

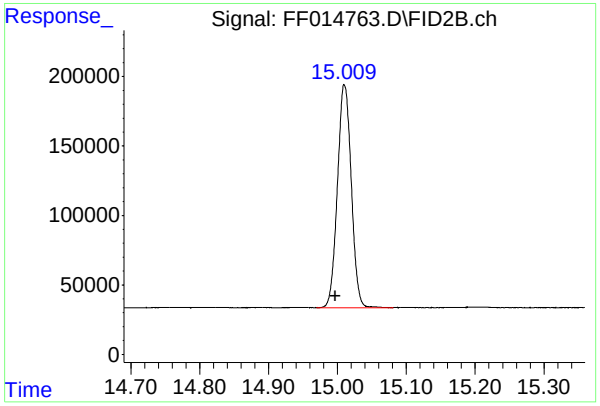
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014763.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 16:35
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :

Integration File: autoint1.e
Quant Time: Oct 25 04:37:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.010 min
Delta R.T.: 0.013 mi
Response: 2244176
Conc: 17.05 ug/m

Instrument :
FID_F
ClientSampleId :

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014763.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 16:35
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.010	14.969	15.081	BB	159852	2244176	100.00%	100.000%

Sum of corrected areas: 2244176

FF102124.M Fri Oct 25 05:00:41 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/24/24
Project:	NJ Soil PT	Date Received:	10/24/24
Client Sample ID:	PIBLK-FF014772.D	SDG No.:	P4495
Lab Sample ID:	I.BLK-FF014772.D	Matrix:	Water
Analytical Method:		% 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
FF014772.D	1		10/24/24	FF102424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.1		29 - 130	80%	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_F\Data\FF102424\
Data File : FF014772.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 22:52
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :

Integration File: autoint1.e
Quant Time: Oct 25 04:38:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
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...	15.015	2113651	16.061 ug/ml
Target Compounds			

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

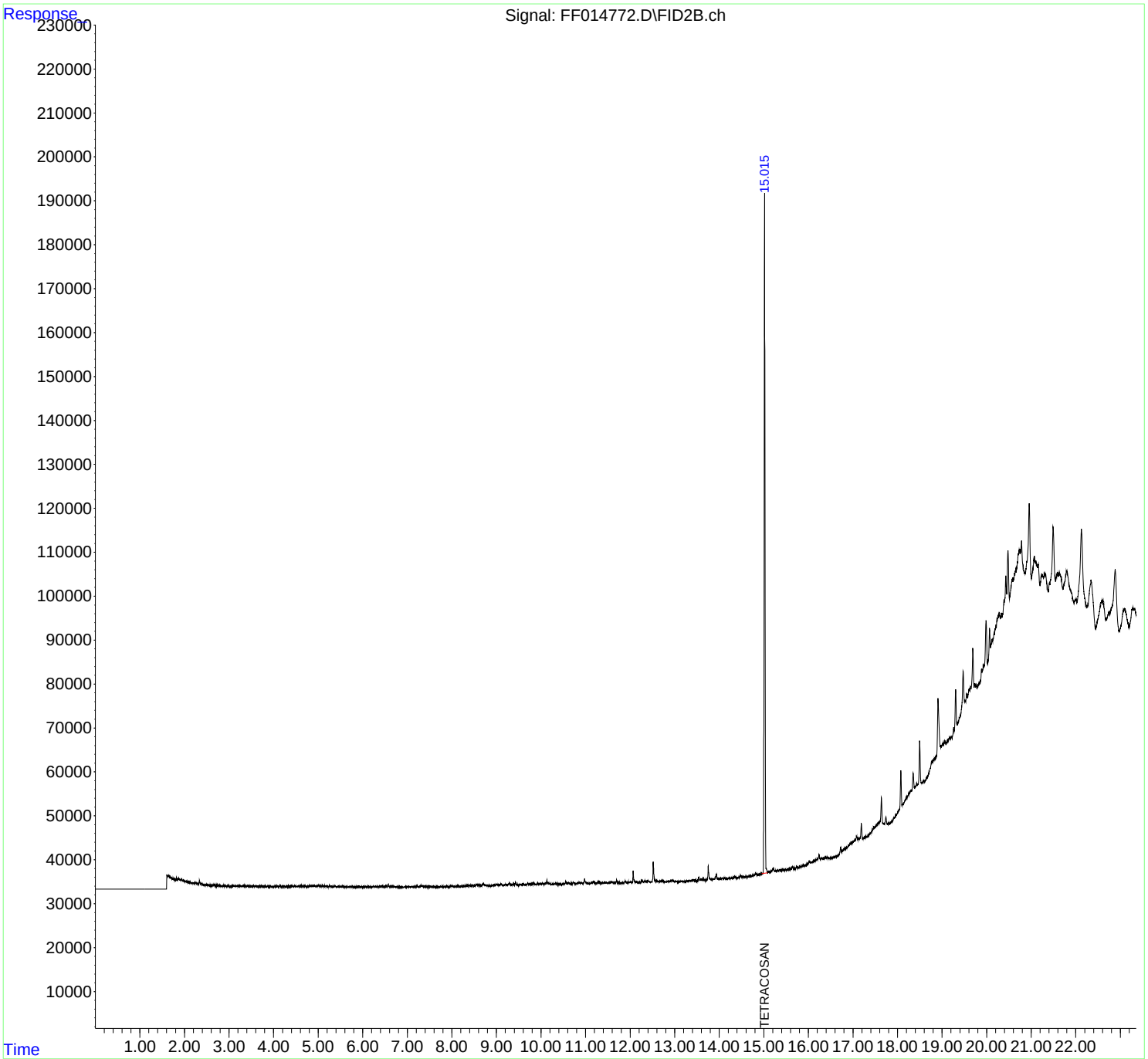
Quantitation Report (QT Reviewed)

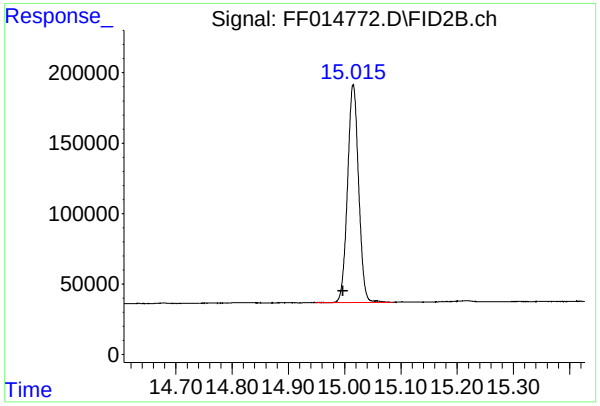
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014772.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 22:52
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :

Integration File: autoint1.e
Quant Time: Oct 25 04:38:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.015 min
Delta R.T.: 0.018 mi
Response: 2113651
Conc: 16.06 ug/m

Instrument :
FID_F
ClientSampleId :

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014772.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 22:52
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.015	14.949	15.086	BB	154771	2113651	100.00%	100.000%

Sum of corrected areas: 2113651

FF102124.M Fri Oct 25 05:01:21 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/25/24
Project:	NJ Soil PT	Date Received:	10/25/24
Client Sample ID:	PIBLK-FF014775.D	SDG No.:	P4495
Lab Sample ID:	I.BLK-FF014775.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
FF014775.D	1		10/25/24	FF102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	19.9		29 - 130	99%	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_F\Data\FF102524\
Data File : FF014775.D
Signal(s) : FID2B.ch
Acq On : 25 Oct 2024 06:11
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 26 04:02:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
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...	15.012	2612293	19.850 ug/ml
Target Compounds			

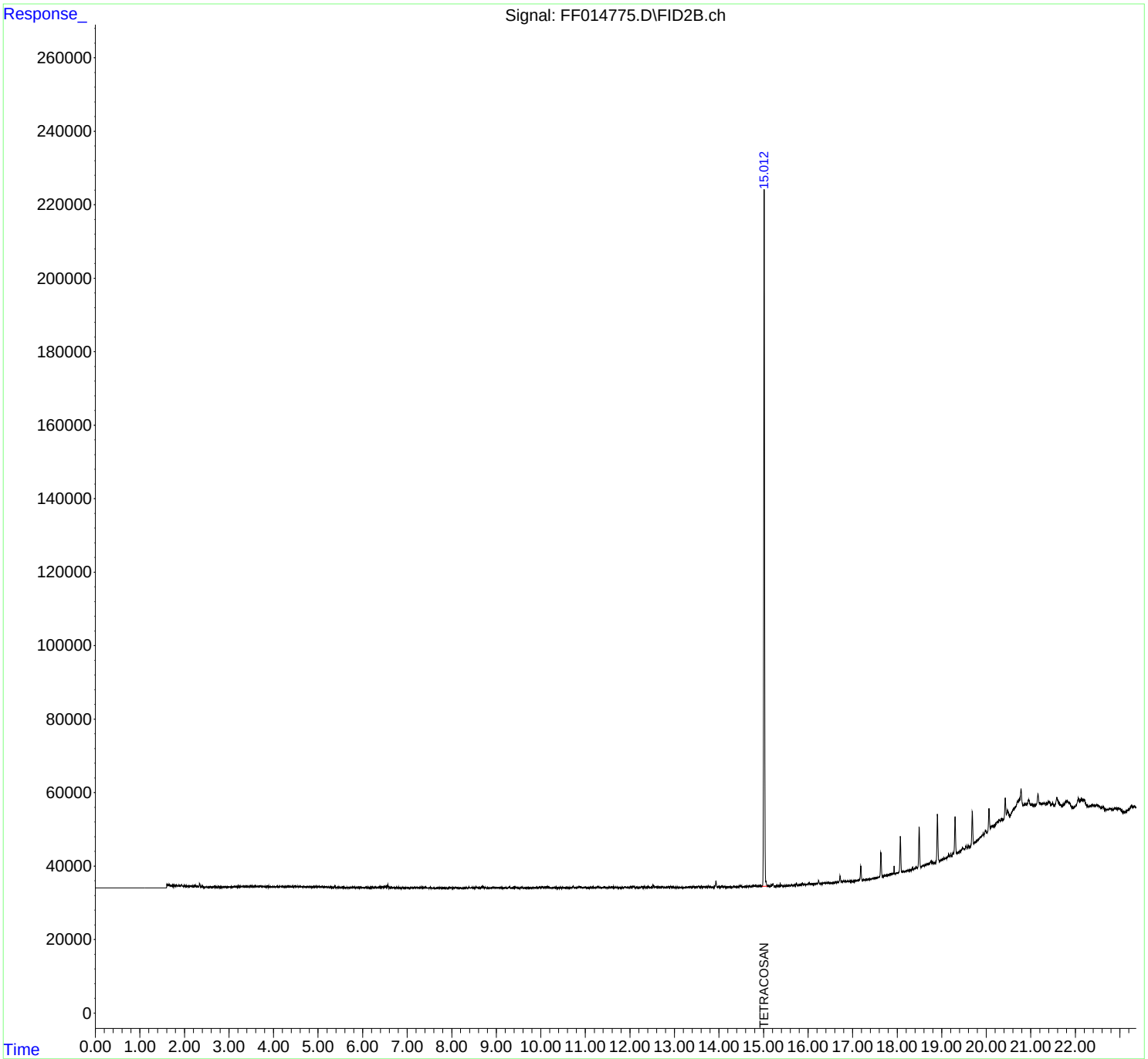
(f)=RT Delta > 1/2 Window (m)=manual int.

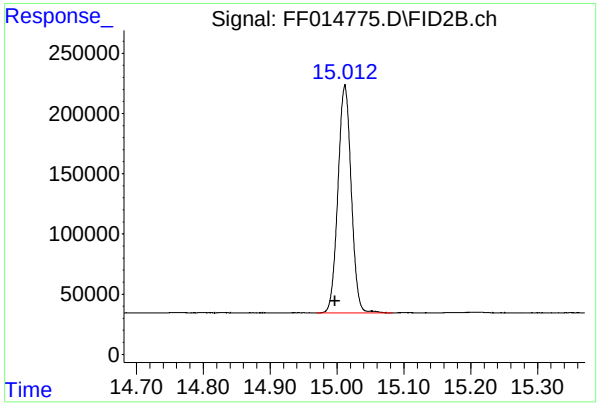
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102524\
Data File : FF014775.D
Signal(s) : FID2B.ch
Acq On : 25 Oct 2024 06:11
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 26 04:02:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.012 min
Delta R.T.: 0.015 mi
Response: 2612293
Conc: 19.85 ug/m

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102524\
Data File : FF014775.D
Signal(s) : FID2B.ch
Acq On : 25 Oct 2024 06:11
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.012	14.969	15.084	BB	189568	2612293	100.00%	100.000%
			Sum of corrected areas:			2612293		

FF102124.M Sat Oct 26 04:40:45 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/25/24
Project:	NJ Soil PT	Date Received:	10/25/24
Client Sample ID:	PIBLK-FF014786.D	SDG No.:	P4495
Lab Sample ID:	I.BLK-FF014786.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
FF014786.D	1		10/25/24	FF102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	10.0	U	10.0	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.6		29 - 130	83%	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_F\Data\FF102524\
Data File : FF014786.D
Signal(s) : FID2B.ch
Acq On : 25 Oct 2024 12:17
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 26 04:03:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
I.BLK

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/28/2024
Supervised By :Ankita Jodhani 10/28/2024

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.010	2186974	16.618 ug/mlm
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102524\
Data File : FF014786.D
Signal(s) : FID2B.ch
Acq On : 25 Oct 2024 12:17
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

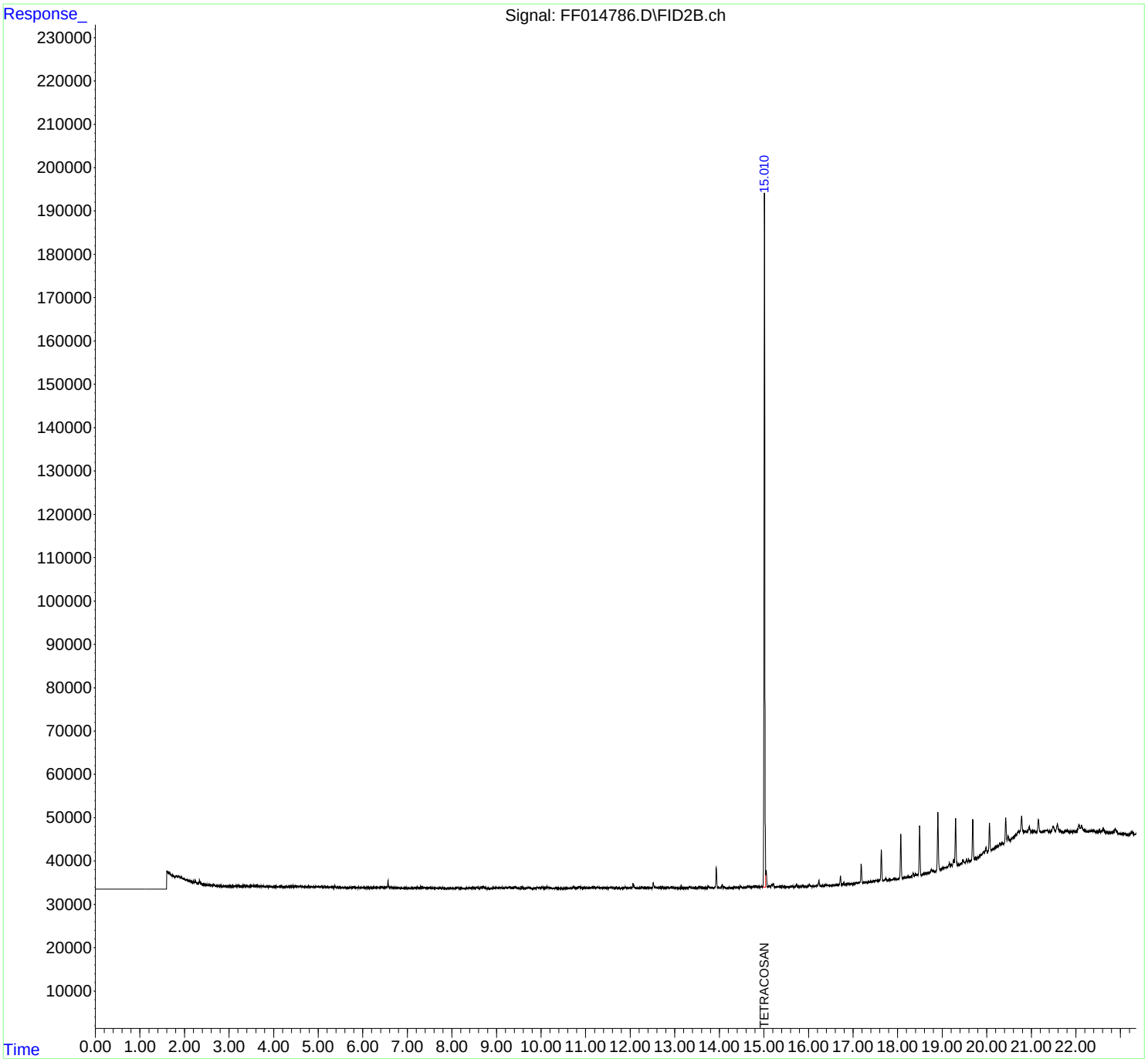
Integration File: autoint1.e
Quant Time: Oct 26 04:03:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

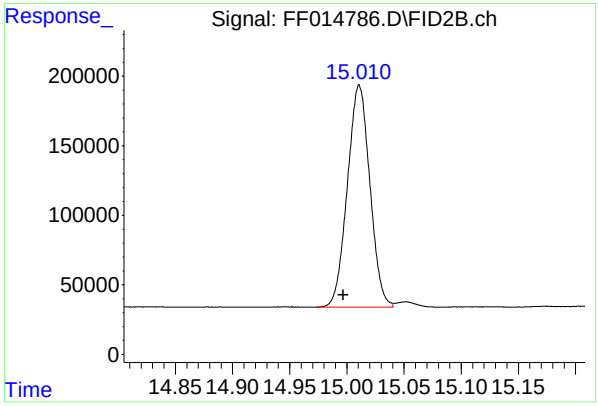
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_F
ClientSampleId :
I.BLK

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/28/2024
Supervised By :Ankita Jodhani 10/28/2024





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.010 min
Delta R.T.: 0.013 mi
Response: 2186974
Conc: 16.62 ug/m

Instrument :
FID_F
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/28/2024
Supervised By :Ankita Jodhani 10/28/2024

Instrument :
FID_F
LabSampleId :
I.BLK

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/28/2024
Supervised By :Ankita Jodhani 10/28/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF10252
Data File : FF014786.D
Signal(s) : FID2B.ch
Acq On : 25 Oct 2024 12:17
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.011	14.969	15.085	BB	159794	2232188	100.00%	100.000%
			Sum of corrected areas:			2232188		

FF102124.M Sat Oct 26 04:41:44 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB164381BS	SDG No.:	P4495
Lab Sample ID:	PB164381BS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 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
FF014760.D	1	10/24/24 11:10	10/24/24 15:02	PB164381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	6640		185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.9		37 - 130	80%	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_F\Data\FF102424\
Data File : FF014760.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 15:02
Operator : YP\AJ
Sample : PB164381BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB164381BS

Integration File: autoint1.e
Quant Time: Oct 25 04:36:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
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...	15.011	2092640	15.901 ug/ml
	Target Compounds			
2)	N-DECANE	4.570	2698037	18.887 ug/ml
3)	N-DODECANE	6.733	2849137	19.634 ug/ml
4)	N-TETRADECANE	8.557	2800314	19.104 ug/ml
5)	N-HEXADECANE	10.163	2897469	19.717 ug/ml
6)	N-OCTADECANE	11.605	3027621	20.167 ug/ml
7)	N-EICOSANE	12.915	3029295	19.969 ug/ml
8)	N-DOCOSANE	14.112	3028533	20.581 ug/ml
10)	N-TETRACOSANE	15.214	3027949	20.603 ug/ml
11)	N-HEXACOSANE	16.234	2969626	20.331 ug/ml
12)	N-OCTACOSANE	17.183	2918755	20.200 ug/ml

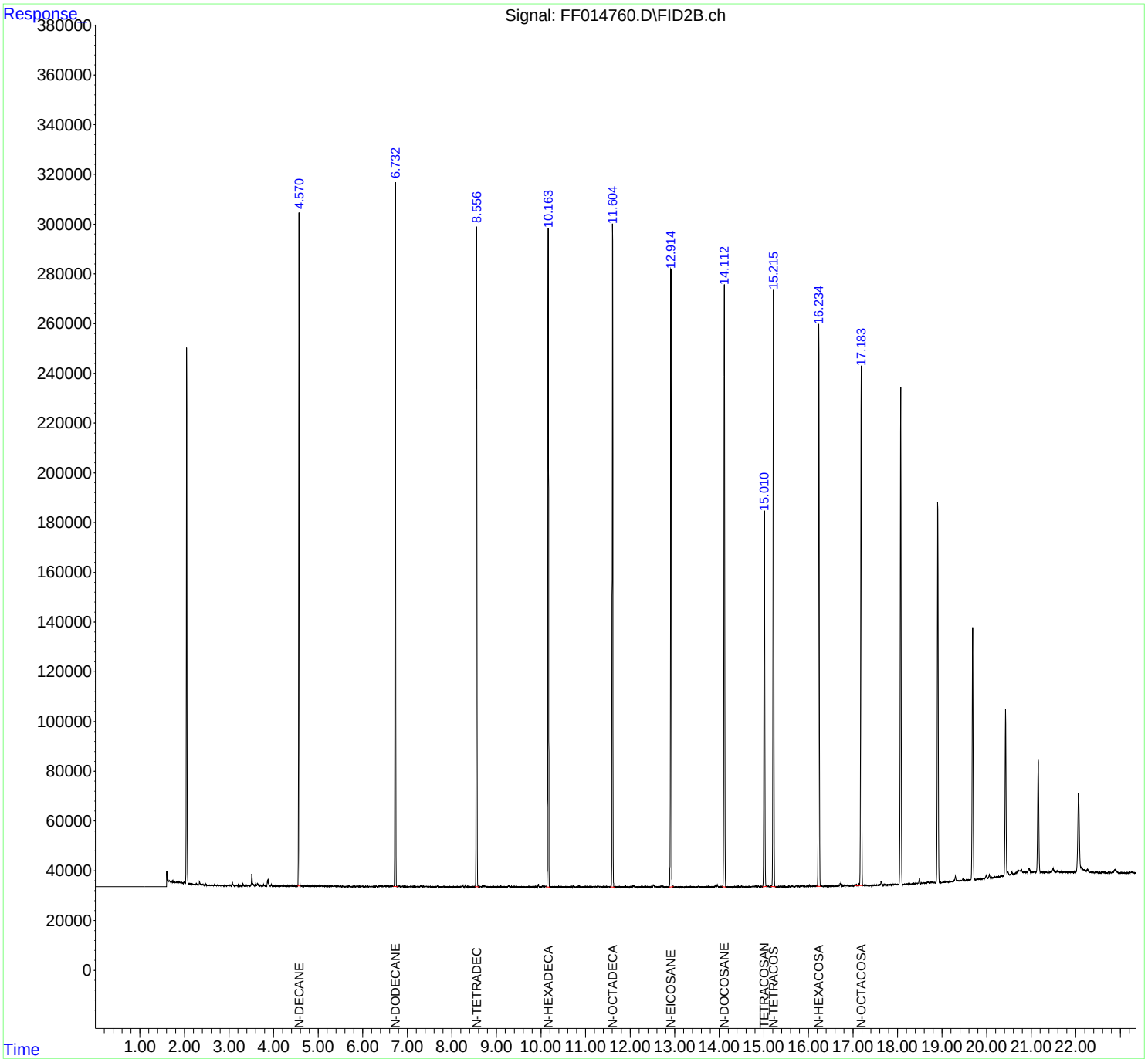
(f)=RT Delta > 1/2 Window (m)=manual int.

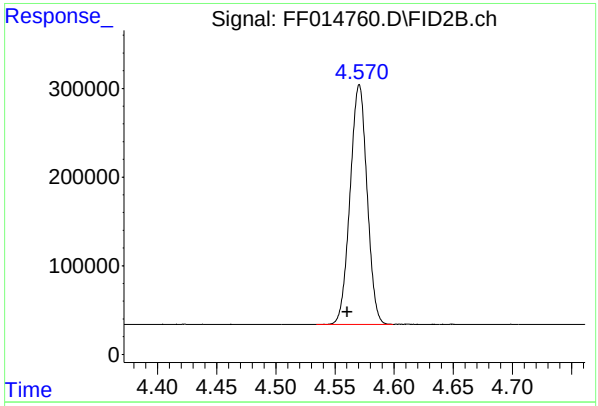
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014760.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 15:02
Operator : YP\AJ
Sample : PB164381BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB164381BS

Integration File: autoint1.e
Quant Time: Oct 25 04:36:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

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

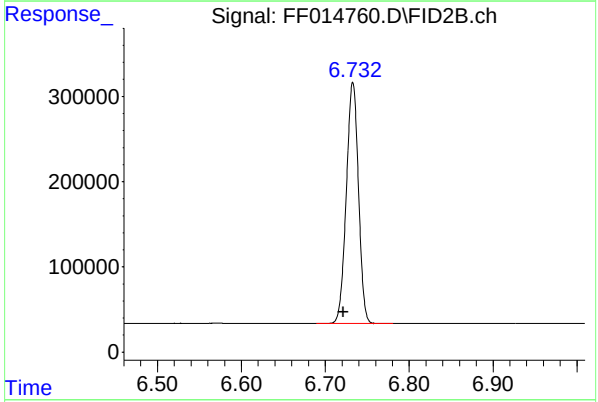




#2 N-DECANE

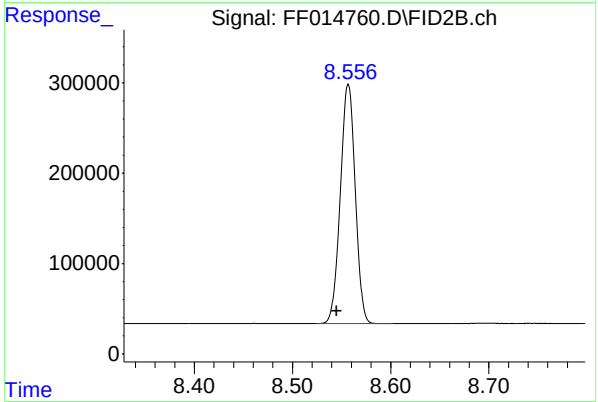
R.T.: 4.570 min
Delta R.T.: 0.010 min
Response: 2698037
Conc: 18.89 ug/ml

Instrument :
FID_F
ClientSampleId :
PB164381BS



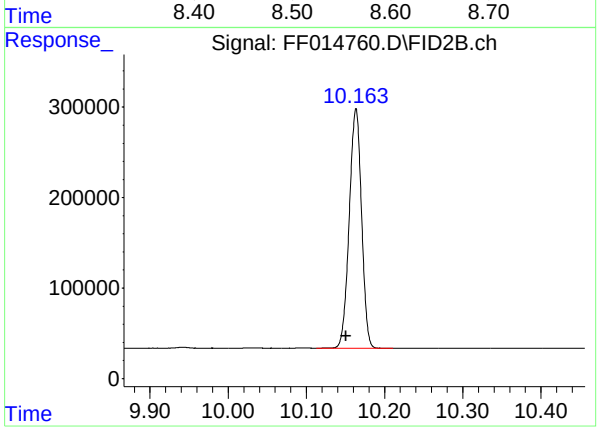
#3 N-DODECANE

R.T.: 6.733 min
Delta R.T.: 0.012 min
Response: 2849137
Conc: 19.63 ug/ml



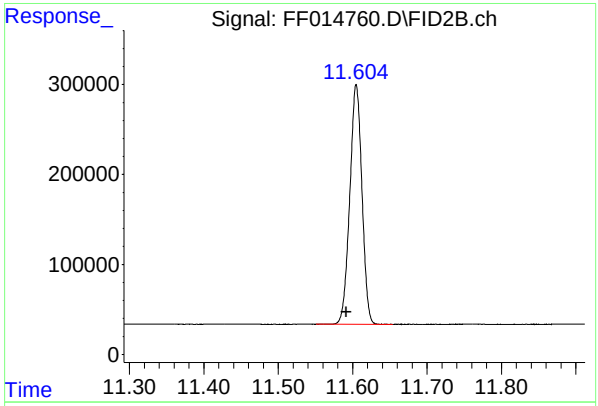
#4 N-TETRADECANE

R.T.: 8.557 min
Delta R.T.: 0.012 min
Response: 2800314
Conc: 19.10 ug/ml



#5 N-HEXADECANE

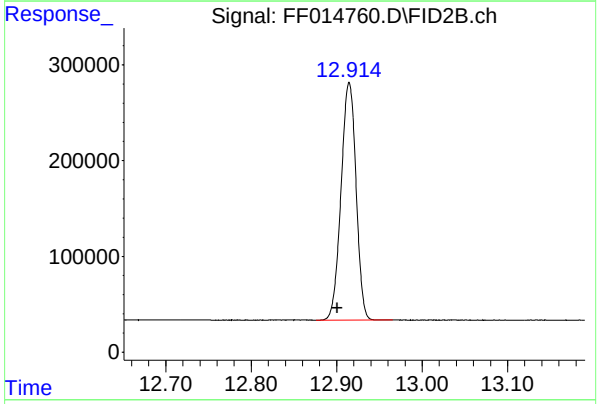
R.T.: 10.163 min
Delta R.T.: 0.013 min
Response: 2897469
Conc: 19.72 ug/ml



#6 N-OCTADECANE

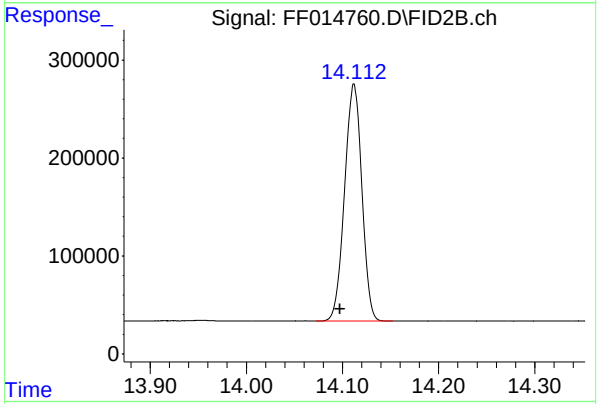
R.T.: 11.605 min
Delta R.T.: 0.013 min
Response: 3027621
Conc: 20.17 ug/ml

Instrument :
FID_F
ClientSampleId :
PB164381BS



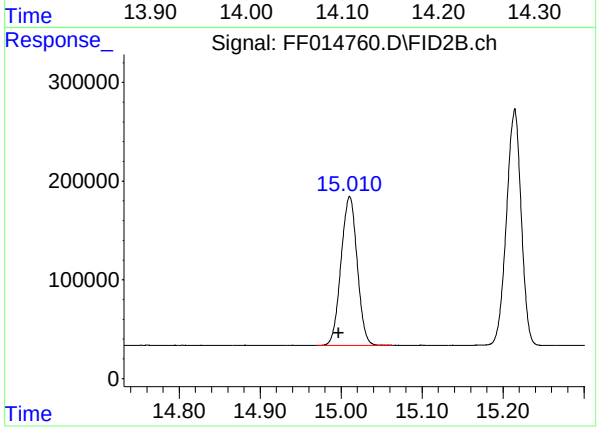
#7 N-EICOSANE

R.T.: 12.915 min
Delta R.T.: 0.014 min
Response: 3029295
Conc: 19.97 ug/ml



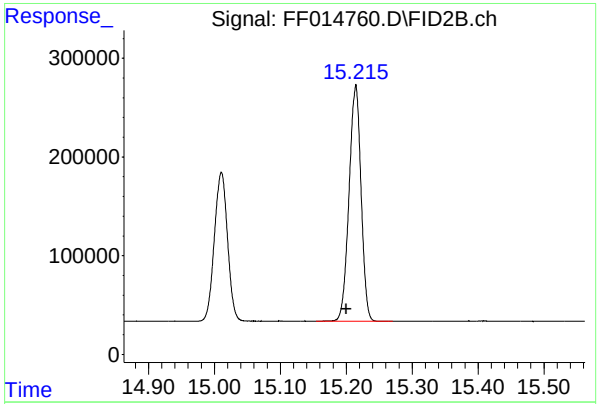
#8 N-DOCOSANE

R.T.: 14.112 min
Delta R.T.: 0.014 min
Response: 3028533
Conc: 20.58 ug/ml



#9 TETRACOSANE-d50 (SURROGATE)

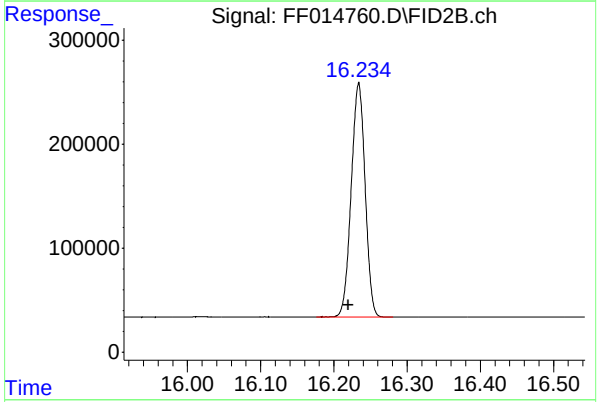
R.T.: 15.011 min
Delta R.T.: 0.014 min
Response: 2092640
Conc: 15.90 ug/ml



#10 N-TETRACOSANE

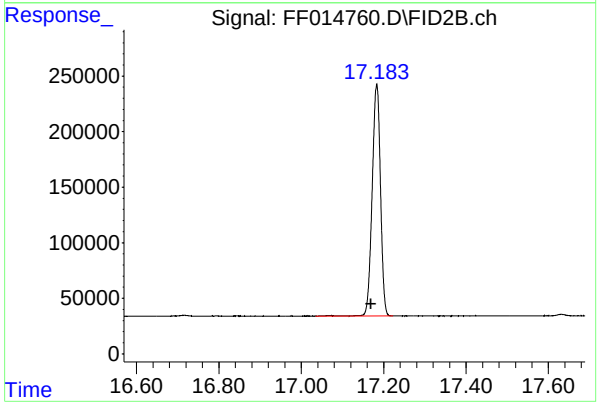
R.T.: 15.214 min
Delta R.T.: 0.014 min
Response: 3027949
Conc: 20.60 ug/ml

Instrument :
FID_F
ClientSampleId :
PB164381BS



#11 N-HEXACOSANE

R.T.: 16.234 min
Delta R.T.: 0.014 min
Response: 2969626
Conc: 20.33 ug/ml



#12 N-OCTACOSANE

R.T.: 17.183 min
Delta R.T.: 0.014 min
Response: 2918755
Conc: 20.20 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014760.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 15:02
Sample : PB164381BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.570	4.534	4.599	BB	270936	2698037	89.06%	8.609%
2	6.733	6.689	6.781	BB	283259	2849137	94.05%	9.091%
3	8.557	8.524	8.602	BB	264770	2800314	92.44%	8.935%
4	10.163	10.112	10.211	BB	266184	2897469	95.65%	9.245%
5	11.605	11.551	11.654	BB	265714	3027621	99.94%	9.661%
6	12.915	12.876	12.966	BB	248035	3029295	100.00%	9.666%
7	14.112	14.072	14.152	BB	242292	3028533	99.97%	9.664%
8	15.011	14.969	15.064	BB	150982	2092640	69.08%	6.677%
9	15.214	15.154	15.271	BB	238579	3027949	99.96%	9.662%
10	16.234	16.176	16.281	BB	225666	2969626	98.03%	9.476%
11	17.183	17.036	17.222	BB	207550	2918755	96.35%	9.313%

Sum of corrected areas: 31339375

FF102124.M Fri Oct 25 05:00:26 2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/23/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	EX-5-TPH-1MS	SDG No.:	P4495
Lab Sample ID:	P4518-01MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	78.5 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
FF014766.D	1	10/24/24 11:10	10/24/24 19:58	PB164381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	968000	E	235	2120	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.5		37 - 130	58%	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_F\Data\FF102424\
Data File : FF014766.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 19:58
Operator : YP\AJ
Sample : P4518-01MS
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-5-TPH-1MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024

Integration File: autoint1.e
Quant Time: Oct 25 04:37:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
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...	15.022	1518855	11.541	ug/mlm
	Target Compounds				
2)	N-DECANE	4.573	3474945	24.325	ug/ml
3)	N-DODECANE	6.743	3565980	24.574	ug/mlm
4)	N-TETRADECANE	8.535	11273646	76.908	ug/mlm
5)	N-HEXADECANE	10.148	11962366	81.404	ug/mlm
6)	N-OCTADECANE	11.581	3096155	20.623	ug/mlm
7)	N-EICOSANE	12.894	5544084	36.546	ug/mlm
8)	N-DOCOSANE	14.128	3087943	20.985	ug/mlm
10)	N-TETRACOSANE	15.205	759822	5.170	ug/mlm
11)	N-HEXACOSANE	16.246	3143947	21.525	ug/mlm
12)	N-OCTACOSANE	17.197	3695216	25.574	ug/mlm

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014766.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 19:58
Operator : YP\AJ
Sample : P4518-01MS
Misc :
ALS Vial : 63 Sample Multiplier: 1

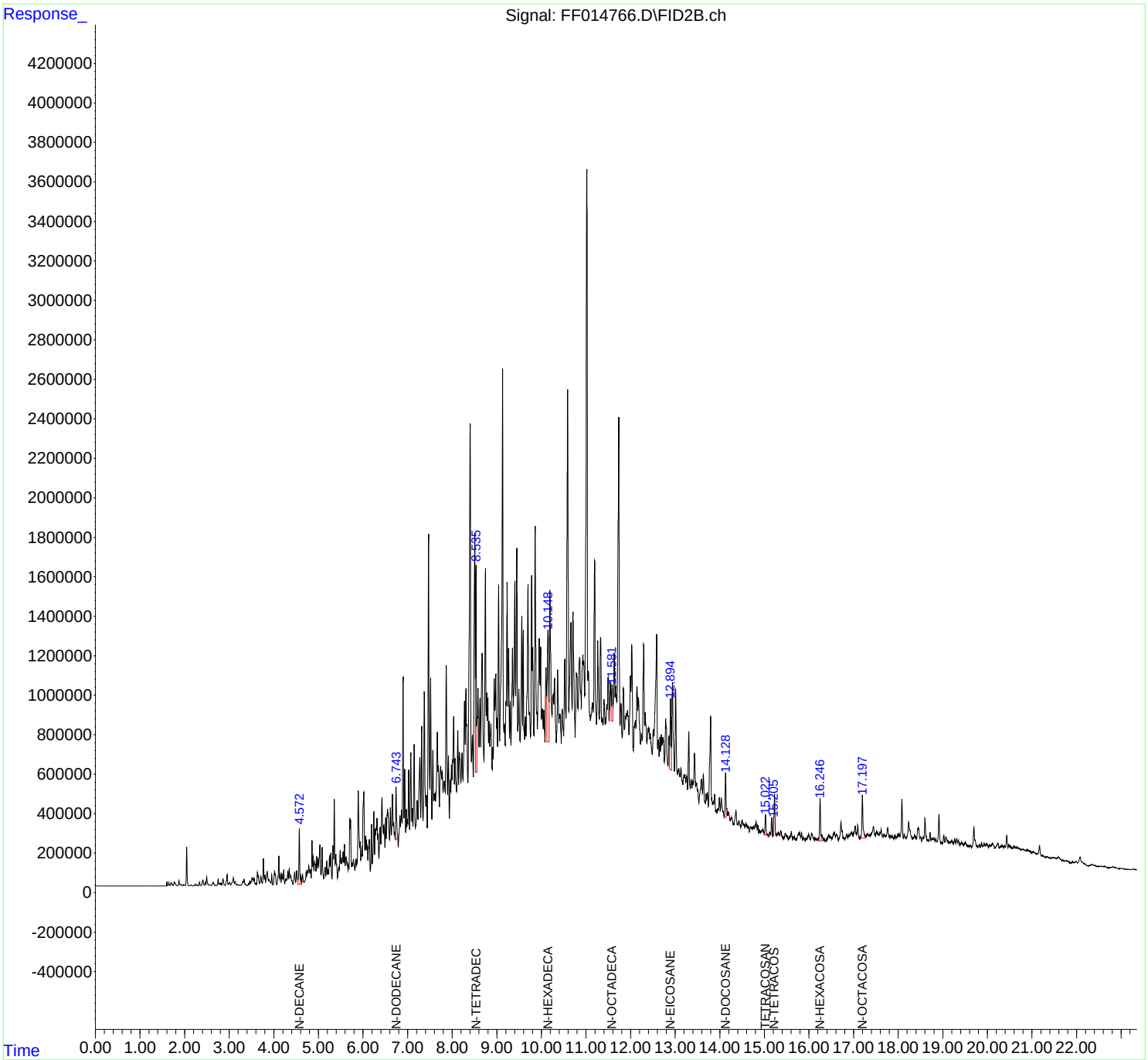
Integration File: autoint1.e
Quant Time: Oct 25 04:37:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

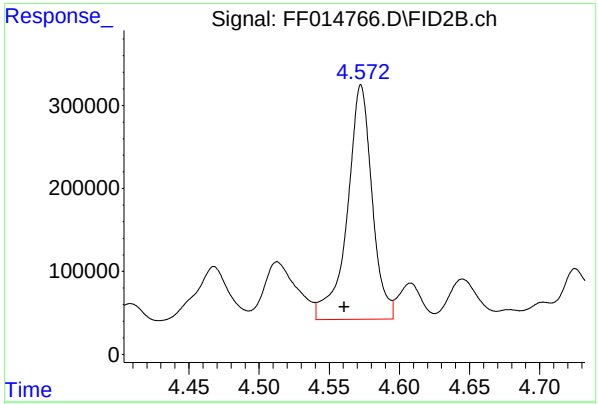
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_F
ClientSampleId :
EX-5-TPH-1MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024





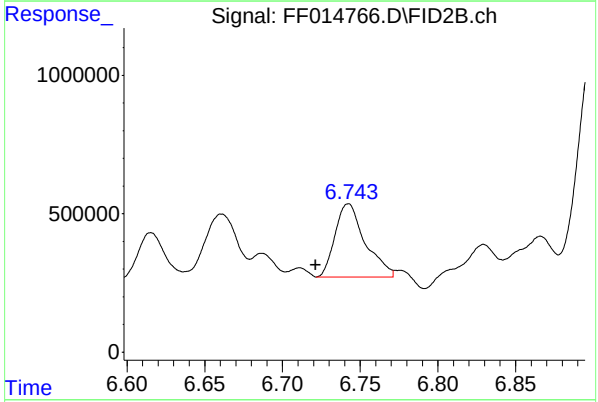
#2 N-DECANE

R.T.: 4.573 min
Delta R.T.: 0.012 mi
Response: 3474945
Conc: 24.33 ug/m

Instrument :
FID_F
ClientSampleId :
EX-5-TPH-1MS

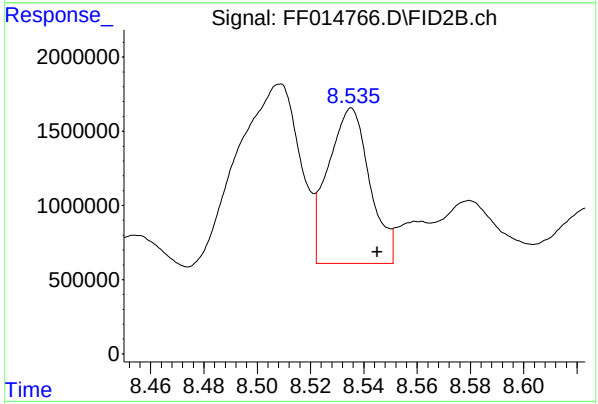
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024



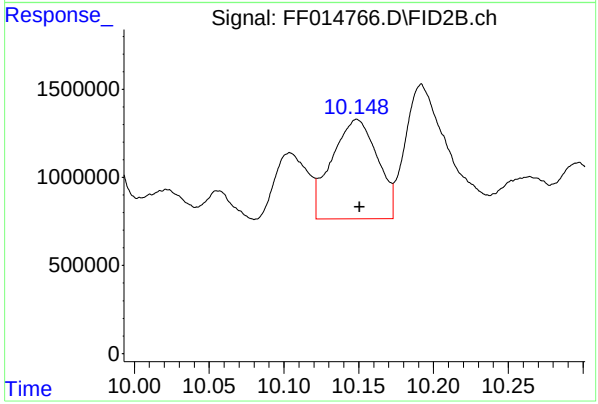
#3 N-DODECANE

R.T.: 6.743 min
Delta R.T.: 0.021 min
Response: 3565980
Conc: 24.57 ug/ml m



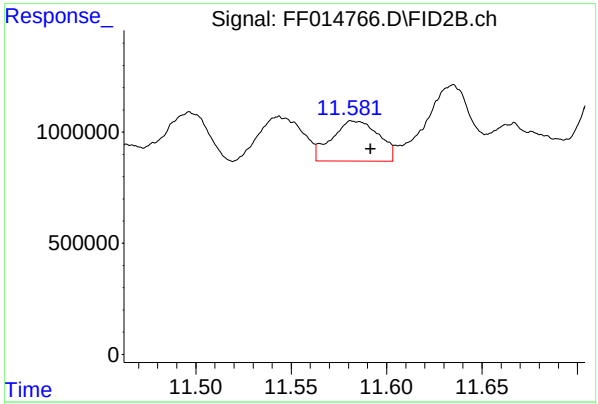
#4 N-TETRADECANE

R.T.: 8.535 min
Delta R.T.: -0.010 min
Response: 11273646
Conc: 76.91 ug/ml m



#5 N-HEXADECANE

R.T.: 10.148 min
Delta R.T.: -0.002 min
Response: 11962366
Conc: 81.40 ug/ml m



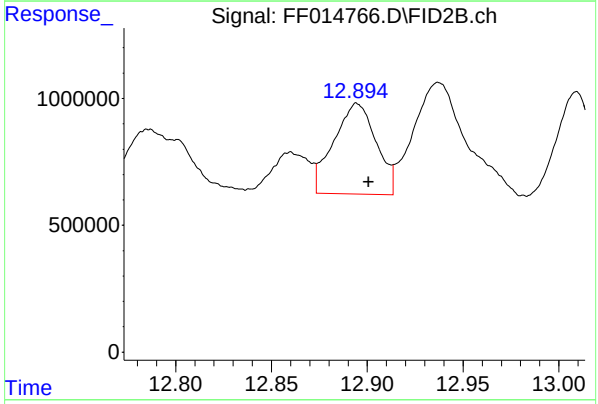
#6 N-OCTADECANE

R.T.: 11.581 min
Delta R.T.: -0.011 min
Response: 3096155
Conc: 20.62 ug/ml

Instrument :
FID_F
ClientSampleId :
EX-5-TPH-1MS

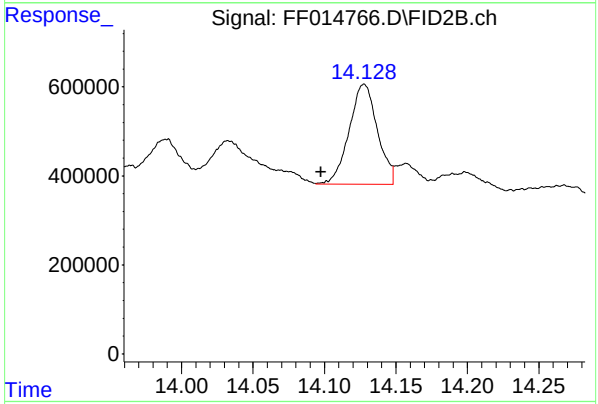
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024



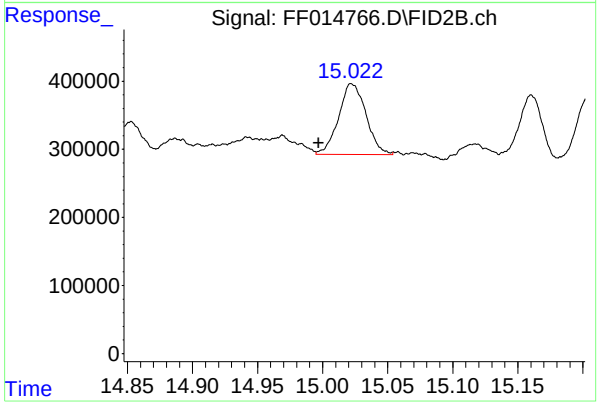
#7 N-EICOSANE

R.T.: 12.894 min
Delta R.T.: -0.007 min
Response: 5544084
Conc: 36.55 ug/ml m



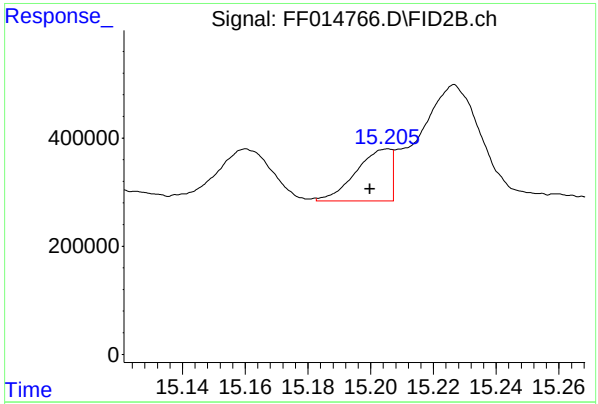
#8 N-DOCOSANE

R.T.: 14.128 min
Delta R.T.: 0.030 min
Response: 3087943
Conc: 20.98 ug/ml m



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.022 min
Delta R.T.: 0.025 min
Response: 1518855
Conc: 11.54 ug/ml m



#10 N-TETRACOSANE

R.T.: 15.205 min
Delta R.T.: 0.005 mi
Response: 759822
Conc: 5.17 ug/m

Instrument :
FID_F
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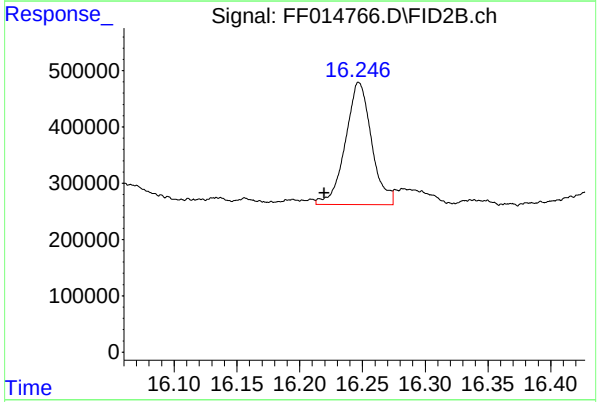
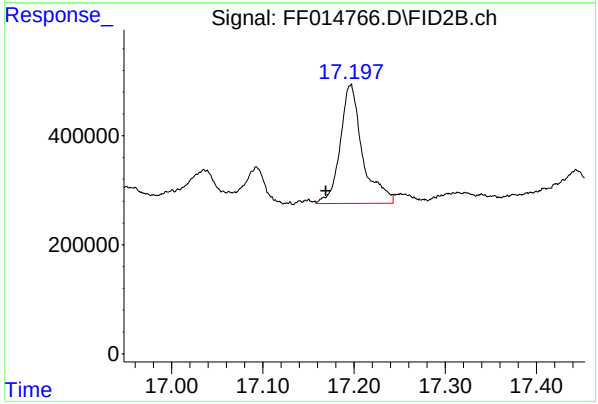


#11 N-HEXACOSANE

R.T.: 16.246 min
Delta R.T.: 0.027 min
Response: 3143947
Conc: 21.52 ug/ml m



#12 N-OCTACOSANE

R.T.: 17.197 min
Delta R.T.: 0.028 min
Response: 3695216
Conc: 25.57 ug/ml m

Instrument :
FID_F
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rteres

Area Percent Report

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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF10242
Data File : FF014766.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 19:58
Sample : P4518-01MS
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.513	4.500	4.540	BV	50182	616333	0.79%	0.018%
2	4.573	4.540	4.595	VV	270218	3039108	3.87%	0.091%
3	4.608	4.595	4.625	VV	34955	346277	0.44%	0.010%
4	4.645	4.625	4.670	PV	41366	519173	0.66%	0.015%
5	4.679	4.670	4.686	VV	3918	31277	0.04%	0.001%
6	4.703	4.686	4.708	VV	12379	106273	0.14%	0.003%
7	4.725	4.708	4.736	VV	52583	572781	0.73%	0.017%
8	4.752	4.736	4.769	VV	61384	1039740	1.33%	0.031%
9	4.785	4.769	4.811	VV	84548	1583329	2.02%	0.047%
10	4.825	4.811	4.839	VV	64112	847419	1.08%	0.025%
11	4.857	4.839	4.871	VV	211500	2282809	2.91%	0.068%
12	4.882	4.871	4.899	VV	130131	1608237	2.05%	0.048%
13	4.917	4.899	4.928	VV	104867	1508033	1.92%	0.045%
14	4.934	4.928	4.947	VV	89603	866448	1.10%	0.026%
15	4.960	4.947	4.976	VV	128527	1604929	2.05%	0.048%
16	4.991	4.976	5.004	VV	119970	1611010	2.05%	0.048%
17	5.035	5.004	5.062	VV	186307	3689045	4.70%	0.110%
18	5.084	5.062	5.121	VV	172482	2605438	3.32%	0.078%
19	5.151	5.121	5.169	VV	70749	1212102	1.55%	0.036%
20	5.187	5.169	5.206	VV	99908	1406445	1.79%	0.042%
21	5.218	5.206	5.230	VV	55277	645898	0.82%	0.019%
22	5.250	5.230	5.264	VV	128515	1718765	2.19%	0.051%
23	5.280	5.264	5.304	VV	140480	1954960	2.49%	0.058%
24	5.328	5.304	5.340	VV	176665	2116615	2.70%	0.063%
25	5.357	5.340	5.375	VV	409900	4811769	6.13%	0.144%
26	5.391	5.375	5.429	VV	130941	2618669	3.34%	0.078%
27	5.458	5.429	5.469	VV	62709	1068075	1.36%	0.032%
28	5.490	5.469	5.504	VV	151022	2205286	2.81%	0.066%
29	5.514	5.504	5.525	VV	108452	1251490	1.60%	0.037%
30	5.555	5.525	5.569	VV	142021	2783350	3.55%	0.083%
31	5.585	5.569	5.601	VV	177509	2484090	3.17%	0.074%
32	5.619	5.601	5.642	VV	114055	2340972	2.98%	0.070%
33	5.650	5.642	5.665	VV	84268	983526	1.25%	0.029%
34	5.678	5.665	5.686	VV	72091	783617	1.00%	0.023%
35	5.705	5.686	5.714	VV	308934	3407131	4.34%	0.102%
36	5.723	5.714	5.746	VV	300445	3667040	4.68%	0.109%

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rteres

37	5.758	5.746	5.769	VV	80905	1023378	1.30%	0.031%
38	5.786	5.769	5.818	VV	97252	2130736	2	
39	5.838	5.818	5.851	VV	95895	1463894	1	
40	5.863	5.851	5.871	VV	90619	967806	1	
41	5.895	5.871	5.925	VV	444857	8154187	10	
42	5.934	5.925	5.951	VV	188088	2346816	2	
43	5.974	5.951	5.984	VV	155388	2425907	3.09%	0.072%
44	6.018	5.984	6.044	VV	434729	10508236	13.40%	0.314%
45	6.056	6.044	6.067	VV	212669	2482105	3.16%	0.074%
46	6.078	6.067	6.089	VV	192814	2202845	2.81%	0.066%
47	6.095	6.089	6.110	VV	159620	1683616	2.15%	0.050%
48	6.125	6.110	6.130	VV	154776	1563893	1.99%	0.047%
49	6.142	6.130	6.166	VV	193533	2648762	3.38%	0.079%
50	6.191	6.166	6.209	VV	269748	3518754	4.49%	0.105%
51	6.243	6.209	6.261	VV	333759	5656737	7.21%	0.169%
52	6.276	6.261	6.284	VV	243629	2726941	3.48%	0.081%
53	6.295	6.284	6.300	VV	241902	2231765	2.85%	0.067%
54	6.316	6.300	6.330	VV	298574	4493878	5.73%	0.134%
55	6.339	6.330	6.358	VV	216145	2813059	3.59%	0.084%
56	6.384	6.358	6.403	VV	251170	5064009	6.46%	0.151%
57	6.426	6.403	6.457	VV	399543	9165601	11.69%	0.274%
58	6.468	6.457	6.494	VV	260018	4982052	6.35%	0.149%
59	6.509	6.494	6.522	VV	297714	3826677	4.88%	0.114%
60	6.551	6.522	6.596	VV	339519	12060016	15.38%	0.360%
61	6.615	6.596	6.637	VV	346669	6453340	8.23%	0.193%
62	6.661	6.637	6.679	VV	413413	7963859	10.15%	0.238%
63	6.687	6.679	6.702	VV	271128	3423426	4.36%	0.102%
64	6.711	6.702	6.722	VV	218322	2433377	3.10%	0.073%
65	6.742	6.722	6.792	VV	449063	11223914	14.31%	0.335%
66	6.829	6.792	6.842	VV	300768	6982915	8.90%	0.208%
67	6.866	6.842	6.878	VV	329485	6163128	7.86%	0.184%
68	6.900	6.878	6.920	VV	1001413	14902260	19.00%	0.445%
69	6.936	6.920	6.958	VV	534650	8817274	11.24%	0.263%
70	6.971	6.958	6.984	VV	328727	4257352	5.43%	0.127%
71	6.996	6.984	7.006	VV	271411	3419036	4.36%	0.102%
72	7.025	7.006	7.046	VV	529956	8766447	11.18%	0.262%
73	7.073	7.046	7.097	VV	617235	12237849	15.60%	0.365%
74	7.108	7.097	7.121	VV	332604	4246754	5.41%	0.127%
75	7.149	7.121	7.175	VV	656543	13130536	16.74%	0.392%
76	7.216	7.175	7.235	VV	372697	10579537	13.49%	0.316%
77	7.276	7.235	7.296	VV	589025	15758977	20.09%	0.470%
78	7.317	7.296	7.348	VV	746252	14285513	18.21%	0.426%
79	7.376	7.348	7.411	VV	920478	20180757	25.73%	0.602%
80	7.424	7.411	7.442	VV	393794	6237712	7.95%	0.186%
81	7.471	7.442	7.499	VV	1719770	28339554	36.13%	0.846%
82	7.517	7.499	7.546	VV	987146	16882305	21.52%	0.504%
83	7.568	7.546	7.585	VV	620956	10525215	13.42%	0.314%
84	7.595	7.585	7.605	VV	399350	4519485	5.76%	0.135%
85	7.616	7.605	7.628	VV	397163	5321524	6.78%	0.159%
86	7.669	7.628	7.683	VV	709369	17232229	21.97%	0.514%
87	7.690	7.683	7.715	VV	539855	8915800	11.37%	0.266%
88	7.743	7.715	7.770	VV	533215	15824824	20.18%	0.472%
89	7.779	7.770	7.797	VV	512694	7489649	9.55%	0.224%

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90	7.821	7.797	7.842	VV	455051	11674713	14.88%	0.348%
91	7.868	7.842	7.898	VV	1044504	22422352	28	
92	7.917	7.898	7.938	VV	586243	10727767	13	
93	7.958	7.938	7.970	VV	461921	7633199	9	
94	7.985	7.970	7.996	VV	539022	7363130	9	
95	8.009	7.996	8.014	VV	562147	5594120	7	
96	8.035	8.014	8.051	VV	782764	14440403	18.41%	0.431%
97	8.063	8.051	8.098	VV	566544	13509374	17.22%	0.403%
98	8.127	8.098	8.145	VV	709383	15030009	19.16%	0.449%
99	8.163	8.145	8.174	VV	600204	9312920	11.87%	0.278%
100	8.178	8.174	8.196	VV	566525	6920858	8.82%	0.207%
101	8.222	8.196	8.241	VV	594464	13977276	17.82%	0.417%
102	8.278	8.241	8.294	VV	855520	20655570	26.34%	0.617%
103	8.309	8.294	8.355	VV	919215	25114868	32.02%	0.750%
104	8.405	8.355	8.433	VV	2258175	55071603	70.21%	1.644%
105	8.455	8.433	8.474	VV	682219	14674058	18.71%	0.438%
106	8.508	8.474	8.522	VV	1701895	33449377	42.65%	0.998%
107	8.535	8.522	8.551	VV	1539476	20051838	25.57%	0.598%
108	8.561	8.551	8.565	VV	771717	6437268	8.21%	0.192%
109	8.580	8.565	8.604	VV	912768	17845627	22.75%	0.533%
110	8.625	8.604	8.642	VV	861733	16974373	21.64%	0.507%
111	8.672	8.642	8.713	VV	1089403	35080504	44.73%	1.047%
112	8.746	8.713	8.764	VV	1518606	30004081	38.25%	0.896%
113	8.778	8.764	8.789	VV	889987	12498967	15.94%	0.373%
114	8.800	8.789	8.816	VV	857936	12450689	15.87%	0.372%
115	8.828	8.816	8.842	VV	744771	10689376	13.63%	0.319%
116	8.870	8.842	8.896	VV	729793	20859938	26.60%	0.623%
117	8.910	8.896	8.921	VV	609820	8428273	10.75%	0.252%
118	8.943	8.921	8.960	VV	955718	18503286	23.59%	0.552%
119	8.978	8.960	8.995	VV	976889	17746553	22.63%	0.530%
120	9.003	8.995	9.018	VV	758097	9830369	12.53%	0.293%
121	9.042	9.018	9.065	VV	1430291	27133698	34.59%	0.810%
122	9.133	9.065	9.165	VV	2521290	70330496	89.67%	2.099%
123	9.173	9.165	9.189	VV	720288	9444321	12.04%	0.282%
124	9.207	9.189	9.213	VV	836771	11120962	14.18%	0.332%
125	9.233	9.213	9.250	VV	1439942	24102693	30.73%	0.719%
126	9.266	9.250	9.288	VV	1104413	20939992	26.70%	0.625%
127	9.302	9.288	9.320	VV	833333	13925564	17.75%	0.416%
128	9.354	9.320	9.370	VV	1104752	26591350	33.90%	0.794%
129	9.406	9.370	9.423	VV	1444385	33674054	42.93%	1.005%
130	9.449	9.423	9.476	VV	1603143	32954192	42.02%	0.984%
131	9.496	9.476	9.523	VV	895124	21442353	27.34%	0.640%
132	9.562	9.523	9.579	VV	1261394	29681691	37.84%	0.886%
133	9.595	9.579	9.625	VV	1189981	23435135	29.88%	0.699%
134	9.643	9.625	9.657	VV	750326	13277247	16.93%	0.396%
135	9.700	9.657	9.727	VV	1419964	40179693	51.23%	1.199%
136	9.737	9.727	9.757	VV	770285	13491633	17.20%	0.403%
137	9.782	9.757	9.796	VV	1464796	24577275	31.34%	0.734%
138	9.806	9.796	9.832	VV	1099148	18966904	24.18%	0.566%
139	9.862	9.832	9.912	VV	1703082	48922737	62.38%	1.460%
140	9.953	9.912	9.971	VV	1144131	33690686	42.95%	1.006%
141	9.984	9.971	10.002	VV	1100188	17237637	21.98%	0.514%

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142	10.022	10.002	10.041	VV	784107	17620822	22.47%	0.526%
143	10.056	10.041	10.081	VV	776917	16488290	21	
144	10.104	10.081	10.123	VV	992773	21442745	27	
145	10.149	10.123	10.173	VV	1182128	30279162	38	
146	10.192	10.173	10.237	VV	1381762	39624391	50	
147	10.264	10.237	10.278	VV	853466	20159121	25	
148	10.297	10.278	10.335	VV	933689	26650762	33.98%	0.795%
149	10.366	10.335	10.394	VV	976024	27756052	35.39%	0.828%
150	10.406	10.394	10.412	VV	739380	8116159	10.35%	0.242%
151	10.419	10.412	10.447	VV	752207	14405977	18.37%	0.430%
152	10.467	10.447	10.499	VV	775729	21722760	27.70%	0.648%
153	10.525	10.499	10.552	VV	1026068	26098372	33.27%	0.779%
154	10.591	10.552	10.615	VV	2394115	55176417	70.35%	1.647%
155	10.664	10.615	10.689	VV	1208763	43801482	55.85%	1.307%
156	10.710	10.689	10.757	VV	1265123	37784975	48.17%	1.128%
157	10.785	10.757	10.820	VV	951207	32028879	40.84%	0.956%
158	10.858	10.820	10.896	VV	1028932	41023432	52.30%	1.224%
159	10.931	10.896	10.944	VV	1042347	27527686	35.10%	0.822%
160	10.951	10.944	10.972	VV	1011912	15925770	20.30%	0.475%
161	11.019	10.972	11.041	VV	3487710	78432941	100.00%	2.341%
162	11.052	11.041	11.101	VV	957257	30054745	38.32%	0.897%
163	11.145	11.101	11.160	VV	794842	26642181	33.97%	0.795%
164	11.194	11.160	11.239	VV	1512101	46016473	58.67%	1.373%
165	11.265	11.239	11.300	VV	1108467	31791378	40.53%	0.949%
166	11.328	11.300	11.355	VV	1120048	28805688	36.73%	0.860%
167	11.365	11.355	11.383	VV	708803	11777163	15.02%	0.352%
168	11.406	11.383	11.430	VV	807857	20879639	26.62%	0.623%
169	11.465	11.430	11.472	VV	769190	18231444	23.24%	0.544%
170	11.497	11.472	11.520	VV	918369	23338875	29.76%	0.697%
171	11.543	11.520	11.567	VV	898714	23248289	29.64%	0.694%
172	11.582	11.567	11.606	VV	875832	19482341	24.84%	0.581%
173	11.635	11.606	11.653	VV	1041133	24845407	31.68%	0.742%
174	11.667	11.653	11.693	VV	868972	20037474	25.55%	0.598%
175	11.735	11.693	11.763	VV	2230632	56504740	72.04%	1.686%
176	11.785	11.763	11.810	VV	779777	20114176	25.65%	0.600%
177	11.838	11.810	11.863	VV	857386	22981140	29.30%	0.686%
178	11.904	11.863	11.912	VV	728343	20594457	26.26%	0.615%
179	11.930	11.912	11.962	VV	739009	21259852	27.11%	0.635%
180	11.995	11.962	12.007	VV	914565	20987016	26.76%	0.626%
181	12.026	12.007	12.062	VV	1073487	26801554	34.17%	0.800%
182	12.107	12.062	12.119	VV	688725	21986650	28.03%	0.656%
183	12.143	12.119	12.162	VV	859164	19878839	25.35%	0.593%
184	12.172	12.162	12.226	VV	800619	26573538	33.88%	0.793%
185	12.243	12.226	12.261	VV	614374	12315246	15.70%	0.368%
186	12.291	12.261	12.317	VV	1071251	27679699	35.29%	0.826%
187	12.330	12.317	12.365	VV	720070	18893394	24.09%	0.564%
188	12.391	12.365	12.402	VV	643815	13727566	17.50%	0.410%
189	12.409	12.402	12.428	VV	643600	9642030	12.29%	0.288%
190	12.440	12.428	12.483	VV	617164	18860298	24.05%	0.563%
191	12.510	12.483	12.521	VV	634678	13093373	16.69%	0.391%
192	12.584	12.521	12.604	VV	1115990	40029113	51.04%	1.195%
193	12.622	12.604	12.641	VV	578082	11984228	15.28%	0.358%
194	12.656	12.641	12.670	VV	595319	9870417	12.58%	0.295%

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rteres

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195	12.687	12.670	12.702	VV	607110	10919767	13.92%	0.326%
196	12.715	12.702	12.723	VV	590100	7310389	9	
197	12.731	12.723	12.756	VV	589132	10615978	13	
198	12.786	12.756	12.837	VV	683026	26703061	34	
199	12.860	12.837	12.873	VV	593723	11493541	14	
200	12.895	12.873	12.913	VV	781379	15874335	20	
201	12.937	12.913	12.984	VV	865350	26407746	33.67%	0.788%
202	13.009	12.984	13.046	VV	826971	21294543	27.15%	0.636%
203	13.080	13.046	13.109	VV	426167	15258630	19.45%	0.455%
204	13.129	13.109	13.171	VV	430156	14399142	18.36%	0.430%
205	13.194	13.171	13.206	VV	390497	7817101	9.97%	0.233%
206	13.214	13.206	13.233	VV	392396	6132556	7.82%	0.183%
207	13.255	13.233	13.278	VV	387237	9783433	12.47%	0.292%
208	13.303	13.278	13.340	VV	610607	15861477	20.22%	0.473%
209	13.356	13.340	13.379	VV	362422	7908224	10.08%	0.236%
210	13.389	13.379	13.406	VV	359474	5796539	7.39%	0.173%
211	13.432	13.406	13.462	VV	498791	13435996	17.13%	0.401%
212	13.481	13.462	13.497	VV	346585	7129128	9.09%	0.213%
213	13.503	13.497	13.529	VV	313231	5443233	6.94%	0.162%
214	13.587	13.529	13.610	VV	364492	15314755	19.53%	0.457%
215	13.630	13.610	13.675	VV	387426	11747889	14.98%	0.351%
216	13.692	13.675	13.705	VV	289478	4797923	6.12%	0.143%
217	13.720	13.705	13.742	VV	292844	5816356	7.42%	0.174%
218	13.794	13.742	13.836	VV	680881	21547854	27.47%	0.643%
219	13.851	13.836	13.862	VV	241765	3801413	4.85%	0.113%
220	13.882	13.862	13.915	VV	284363	7613954	9.71%	0.227%
221	13.927	13.915	13.941	VV	201336	3062620	3.90%	0.091%
222	13.957	13.941	13.968	VV	210248	3262850	4.16%	0.097%
223	13.989	13.968	14.010	VV	265102	5813271	7.41%	0.174%
224	14.033	14.010	14.095	VV	260975	10767080	13.73%	0.321%
225	14.128	14.095	14.150	VV	386133	8482811	10.82%	0.253%
226	14.157	14.150	14.177	VV	208089	3039334	3.88%	0.091%
227	14.199	14.177	14.232	VV	187799	5640632	7.19%	0.168%
228	14.268	14.232	14.300	VV	157212	5942203	7.58%	0.177%
229	14.311	14.300	14.317	VV	125613	1234974	1.57%	0.037%
230	14.361	14.317	14.400	VV	189790	7471517	9.53%	0.223%
231	14.431	14.400	14.470	VV	138908	5211322	6.64%	0.156%
232	14.500	14.470	14.532	VV	142292	4609540	5.88%	0.138%
233	14.538	14.532	14.559	VV	120210	1864173	2.38%	0.056%
234	14.563	14.559	14.567	VV	110986	563809	0.72%	0.017%
235	14.592	14.567	14.627	VV	119718	3965027	5.06%	0.118%
236	14.642	14.627	14.663	VV	106692	2111114	2.69%	0.063%
237	14.688	14.663	14.705	VV	104309	2410348	3.07%	0.072%
238	14.711	14.705	14.729	VV	100828	1381642	1.76%	0.041%
239	14.755	14.729	14.775	VV	107682	2686043	3.42%	0.080%
240	14.794	14.775	14.799	VV	110611	1459374	1.86%	0.044%
241	14.813	14.799	14.839	VV	127180	2663928	3.40%	0.080%
242	14.853	14.839	14.872	VV	107520	1798013	2.29%	0.054%
243	14.887	14.872	14.910	VV	83378	1718727	2.19%	0.051%
244	14.942	14.910	14.959	VV	83358	2265255	2.89%	0.068%
245	14.969	14.959	14.996	VV	86224	1676267	2.14%	0.050%
246	15.022	14.996	15.052	VV	160671	3434777	4.38%	0.103%

Instrument :
FID_F
ClientSampleId :
EX-5-TPH-1MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024

rteres

247	15.057	15.052	15.063	VV	59469	372412	0.47%	0.011%
248	15.070	15.063	15.077	VV	57977	493410		
249	15.078	15.077	15.093	VV	57258	507795		
250	15.118	15.093	15.136	VV	70430	1565838		
251	15.160	15.136	15.181	VV	141775	2446094		
252	15.227	15.181	15.270	VV	259681	6296886		
253	15.288	15.270	15.297	VV	56211	859511	1.10%	0.026%
254	15.314	15.297	15.347	VV	66070	1671959	2.13%	0.050%
255	15.365	15.347	15.416	VV	69652	2072302	2.64%	0.062%
256	15.425	15.416	15.429	VV	35449	260071	0.33%	0.008%
257	15.433	15.429	15.440	VV	36114	226332	0.29%	0.007%
258	15.470	15.440	15.501	VV	55290	1686938	2.15%	0.050%
259	15.508	15.501	15.530	VV	44669	655725	0.84%	0.020%
260	15.566	15.530	15.570	VV	36312	777602	0.99%	0.023%
261	15.602	15.570	15.640	VV	64849	1704234	2.17%	0.051%
262	15.657	15.640	15.662	VV	35721	428077	0.55%	0.013%
263	15.668	15.662	15.721	VV	35288	903785	1.15%	0.027%
264	15.776	15.721	15.814	VV	51037	2229112	2.84%	0.067%
265	15.833	15.814	15.857	VV	53951	904261	1.15%	0.027%
266	15.876	15.857	15.904	VV	26752	614942	0.78%	0.018%
267	15.915	15.904	15.922	VV	20621	192127	0.24%	0.006%
268	15.938	15.922	15.948	VV	20834	296298	0.38%	0.009%
269	15.992	15.948	16.027	VV	40298	1330573	1.70%	0.040%
270	16.058	16.027	16.117	VV	45284	1499451	1.91%	0.045%
271	16.121	16.117	16.125	VV	16491	74798	0.10%	0.002%
272	16.133	16.125	16.146	VV	18984	209212	0.27%	0.006%
273	16.157	16.146	16.180	VV	17618	263711	0.34%	0.008%
274	16.194	16.180	16.205	VV	14409	184311	0.23%	0.006%
275	16.247	16.205	16.278	VV	221640	3441284	4.39%	0.103%
276	16.283	16.278	16.323	VV	32204	571819	0.73%	0.017%
277	16.337	16.323	16.359	VV	10560	180495	0.23%	0.005%
278	16.368	16.359	16.374	VV	4036	27196	0.03%	0.001%
279	16.444	16.374	16.485	PV	30206	1118051	1.43%	0.033%
280	16.491	16.485	16.512	VV	20031	258495	0.33%	0.008%
281	16.559	16.512	16.563	VV	40653	812627	1.04%	0.024%
282	16.567	16.563	16.594	VV	39148	548818	0.70%	0.016%
283	16.616	16.594	16.659	VV	29887	822988	1.05%	0.025%
284	16.717	16.659	16.737	VV	91726	1792885	2.29%	0.054%
285	16.741	16.737	16.760	VV	48799	445551	0.57%	0.013%
286	16.770	16.760	16.784	VV	12068	134763	0.17%	0.004%
287	16.789	16.784	16.808	VV	6666	77364	0.10%	0.002%
288	16.846	16.808	16.867	VV	27985	547637	0.70%	0.016%
289	16.888	16.867	16.892	VV	18958	222184	0.28%	0.007%
290	16.899	16.892	16.910	VV	20888	205165	0.26%	0.006%
291	16.922	16.910	16.927	VV	22390	207840	0.26%	0.006%
292	16.951	16.927	16.984	VV	36484	958918	1.22%	0.029%
293	17.036	16.984	17.067	VV	65628	1861798	2.37%	0.056%
294	17.093	17.067	17.124	VV	69387	1130479	1.44%	0.034%
295	17.130	17.124	17.134	VV	3494	14452	0.02%	0.000%
296	17.150	17.134	17.158	PV	8824	72720	0.09%	0.002%
297	17.196	17.158	17.245	VV	218342	3649642	4.65%	0.109%
298	17.251	17.245	17.281	VV	13758	164053	0.21%	0.005%

Sum of corrected areas: 3350437958

rteres

Instrument :
FID_F
ClientSampleId :
EX-5-TPH-1MS

FF102124.M Fri Oct 25 05:03:14 2024

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/23/24
Project:	NJ Soil PT	Date Received:	10/23/24
Client Sample ID:	EX-5-TPH-1MSD	SDG No.:	P4495
Lab Sample ID:	P4518-01MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	78.5 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
FF014767.D	1	10/24/24 11:10	10/24/24 20:27	PB164381

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	917000	E	235	2120	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.7		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_F\Data\FF102424\
Data File : FF014767.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 20:27
Operator : YP\AJ
Sample : P4518-01MSD
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-5-TPH-1MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024

Integration File: autoint1.e
Quant Time: Oct 25 04:37:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
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...	15.021	1401074	10.646 ug/mlm
	Target Compounds			
2)	N-DECANE	4.573	3316882	23.219 ug/ml
3)	N-DODECANE	6.743	3375694	23.262 ug/mlm
4)	N-TETRADECANE	8.534	10809406	73.741 ug/mlm
5)	N-HEXADECANE	10.147	11580236	78.803 ug/mlm
6)	N-OCTADECANE	11.585	3575020	23.813 ug/mlm
7)	N-EICOSANE	12.893	5329180	35.129 ug/mlm
8)	N-DOCOSANE	14.128	2922942	19.864 ug/mlm
10)	N-TETRACOSANE	15.205	830530	5.651 ug/mlm
11)	N-HEXACOSANE	16.248	2895519	19.824 ug/mlm
12)	N-OCTACOSANE	17.197	3430944	23.745 ug/mlm

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014767.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 20:27
Operator : YP\AJ
Sample : P4518-01MSD
Misc :
ALS Vial : 64 Sample Multiplier: 1

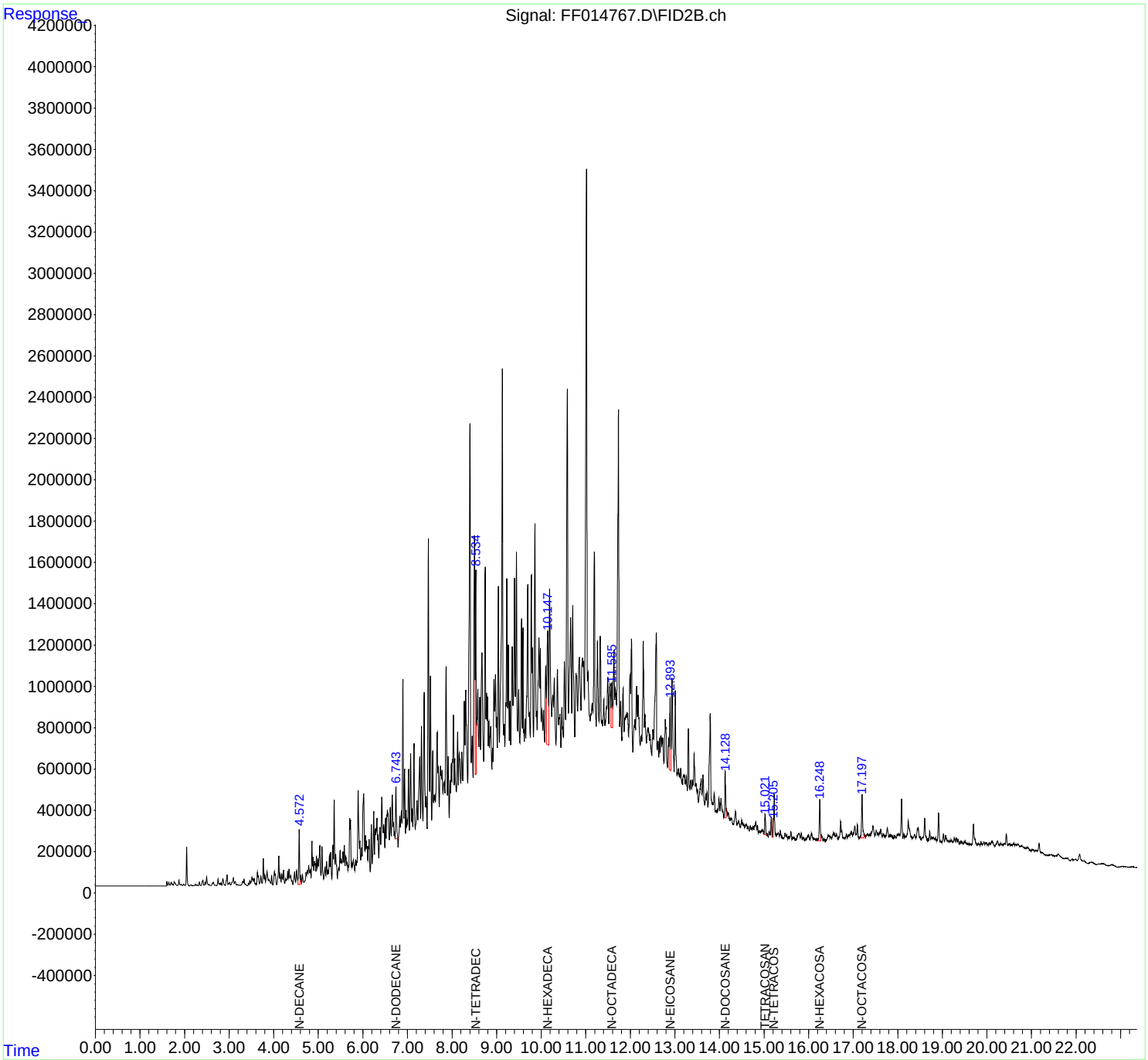
Integration File: autoint1.e
Quant Time: Oct 25 04:37:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

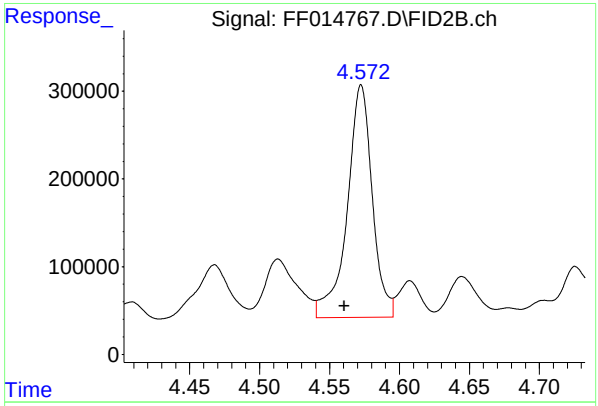
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_F
ClientSampleId :
EX-5-TPH-1MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024





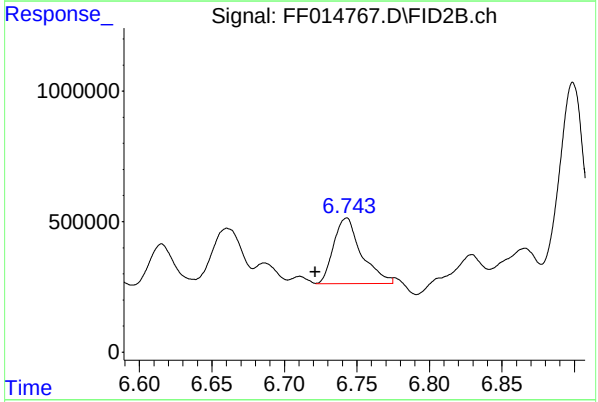
#2 N-DECANE

R.T.: 4.573 min
Delta R.T.: 0.012 min
Response: 3316882
Conc: 23.22 ug/ml

Instrument :
FID_F
ClientSampleId :
EX-5-TPH-1MSD

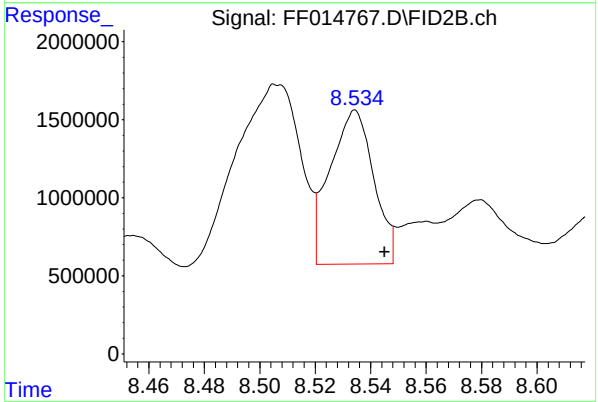
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024



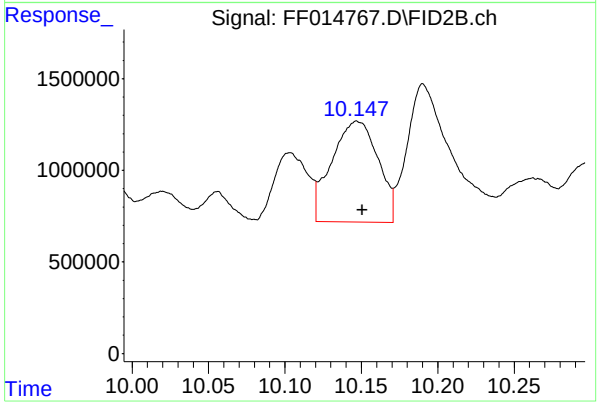
#3 N-DODECANE

R.T.: 6.743 min
Delta R.T.: 0.021 min
Response: 3375694
Conc: 23.26 ug/ml m



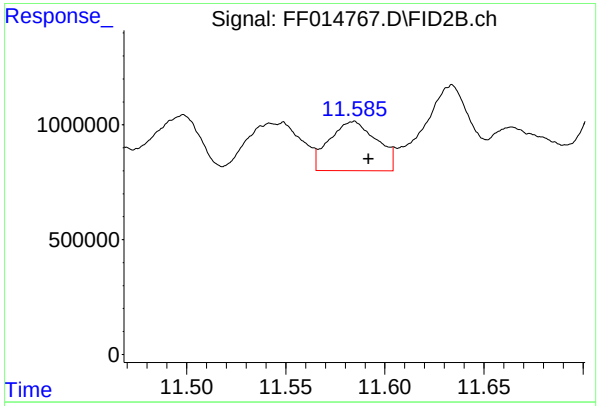
#4 N-TETRADECANE

R.T.: 8.534 min
Delta R.T.: -0.011 min
Response: 10809406
Conc: 73.74 ug/ml m



#5 N-HEXADECANE

R.T.: 10.147 min
Delta R.T.: -0.004 min
Response: 11580236
Conc: 78.80 ug/ml m



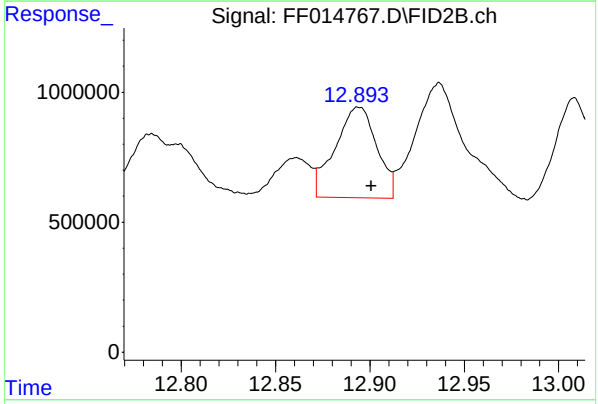
#6 N-OCTADECANE

R.T.: 11.585 min
Delta R.T.: -0.007 min
Response: 3575020
Conc: 23.81 ug/ml

Instrument :
FID_F
ClientSampleId :
EX-5-TPH-1MSD

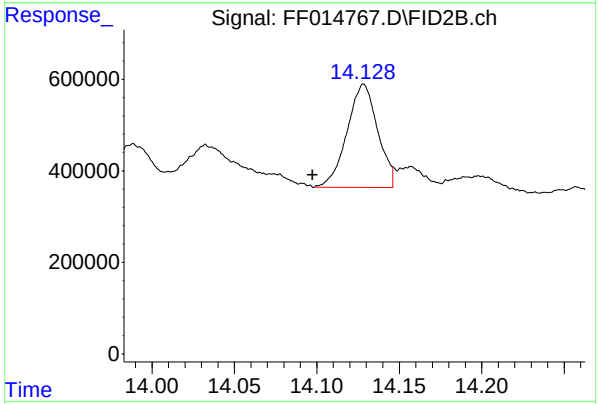
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024



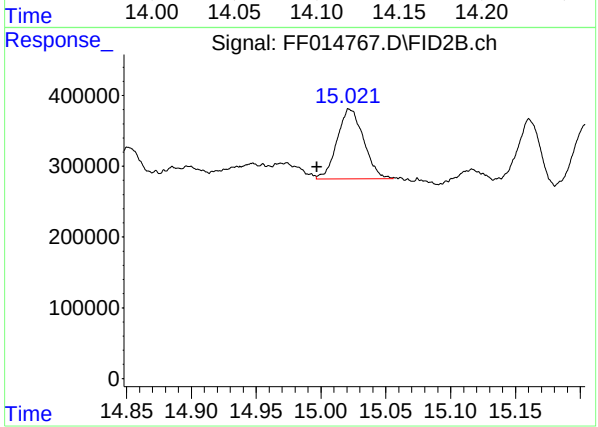
#7 N-EICOSANE

R.T.: 12.893 min
Delta R.T.: -0.008 min
Response: 5329180
Conc: 35.13 ug/ml m



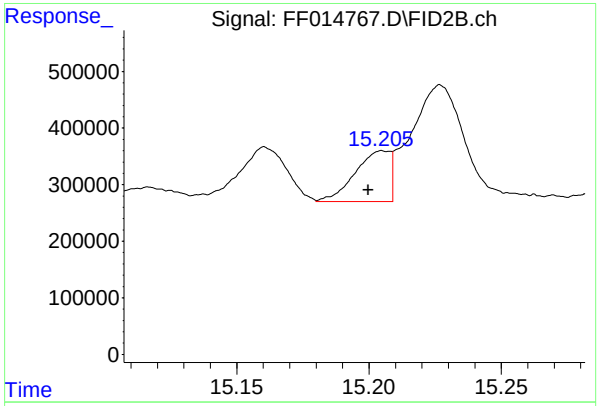
#8 N-DOCOSANE

R.T.: 14.128 min
Delta R.T.: 0.030 min
Response: 2922942
Conc: 19.86 ug/ml m



#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.021 min
Delta R.T.: 0.024 min
Response: 1401074
Conc: 10.65 ug/ml m



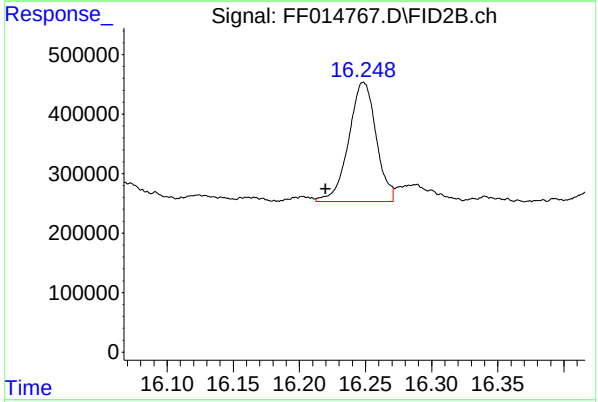
#10 N-TETRACOSANE

R.T.: 15.205 min
Delta R.T.: 0.005 mi
Response: 830530
Conc: 5.65 ug/m

Instrument :
FID_F
ClientSampleId :
EX-5-TPH-1MSD

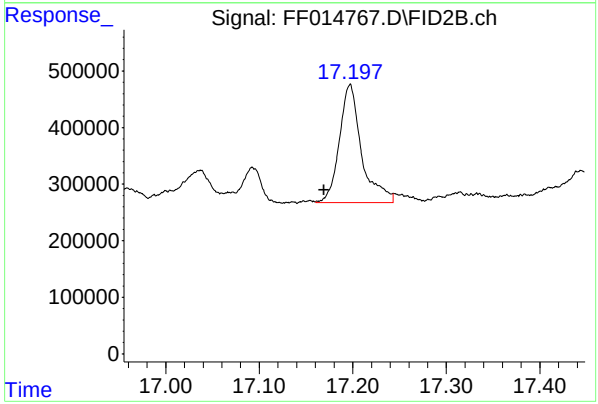
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024



#11 N-HEXACOSANE

R.T.: 16.248 min
Delta R.T.: 0.029 min
Response: 2895519
Conc: 19.82 ug/ml m



#12 N-OCTACOSANE

R.T.: 17.197 min
Delta R.T.: 0.028 min
Response: 3430944
Conc: 23.75 ug/ml m

Instrument :
FID_F
ClientSampleId :
EX-5-TPH-1MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF10242
Data File : FF014767.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 20:27
Sample : P4518-01MSD
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.513	4.500	4.540	BV	48677	595836	0.80%	0.019%
2	4.573	4.540	4.595	VV	253712	2907555	3.92%	0.092%
3	4.607	4.595	4.625	VV	33794	331022	0.45%	0.010%
4	4.645	4.625	4.669	PV	40025	495744	0.67%	0.016%
5	4.678	4.669	4.687	VV	3676	29328	0.04%	0.001%
6	4.703	4.687	4.708	VV	11820	97456	0.13%	0.003%
7	4.726	4.708	4.736	VV	50232	555373	0.75%	0.018%
8	4.753	4.736	4.769	VV	57916	989469	1.33%	0.031%
9	4.785	4.769	4.810	VV	80863	1486389	2.00%	0.047%
10	4.824	4.810	4.839	VV	61155	828112	1.12%	0.026%
11	4.857	4.839	4.871	VV	198257	2181378	2.94%	0.069%
12	4.882	4.871	4.899	VV	122030	1530468	2.06%	0.048%
13	4.917	4.899	4.929	VV	100893	1491950	2.01%	0.047%
14	4.934	4.929	4.947	VV	84887	762015	1.03%	0.024%
15	4.960	4.947	4.976	VV	124810	1545935	2.08%	0.049%
16	4.991	4.976	5.004	VV	112580	1526429	2.06%	0.048%
17	5.035	5.004	5.061	VV	175323	3495406	4.71%	0.110%
18	5.084	5.061	5.121	VV	168011	2502390	3.37%	0.079%
19	5.151	5.121	5.168	VV	67207	1150831	1.55%	0.036%
20	5.187	5.168	5.206	VV	94843	1332866	1.80%	0.042%
21	5.218	5.206	5.230	VV	51445	608606	0.82%	0.019%
22	5.250	5.230	5.264	VV	121842	1628781	2.20%	0.051%
23	5.279	5.264	5.304	VV	137444	1874995	2.53%	0.059%
24	5.328	5.304	5.340	VV	171979	2021522	2.72%	0.064%
25	5.357	5.340	5.375	VV	388653	4575047	6.17%	0.144%
26	5.391	5.375	5.429	VV	125843	2491256	3.36%	0.079%
27	5.458	5.429	5.469	VV	59805	1033627	1.39%	0.033%
28	5.490	5.469	5.504	VV	143895	2086478	2.81%	0.066%
29	5.513	5.504	5.524	VV	102693	1121962	1.51%	0.035%
30	5.532	5.524	5.536	VV	86162	612639	0.83%	0.019%
31	5.555	5.536	5.569	VV	134760	2094405	2.82%	0.066%
32	5.585	5.569	5.601	VV	165966	2354512	3.17%	0.074%
33	5.616	5.601	5.641	VV	108707	2214198	2.98%	0.070%
34	5.650	5.641	5.665	VV	80665	943893	1.27%	0.030%
35	5.678	5.665	5.686	VV	67591	738914	1.00%	0.023%
36	5.705	5.686	5.714	VV	294430	3245650	4.37%	0.102%

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37	5.723	5.714	5.746	VV	286373	3491383	4.71%	0.110%
38	5.758	5.746	5.770	VV	76480	974810	1	
39	5.786	5.770	5.818	VV	92432	2020440	2	
40	5.838	5.818	5.851	VV	91563	1379142	1	
41	5.863	5.851	5.871	VV	86061	905813	1	
42	5.895	5.871	5.924	VV	424465	7735097	10	
43	5.934	5.924	5.952	VV	181740	2305798	3.11%	0.073%
44	5.974	5.952	5.984	VV	148164	2262107	3.05%	0.071%
45	6.019	5.984	6.044	VV	407209	9999215	13.48%	0.315%
46	6.056	6.044	6.067	VV	205649	2349938	3.17%	0.074%
47	6.077	6.067	6.089	VV	179850	2083221	2.81%	0.066%
48	6.095	6.089	6.110	VV	152634	1615130	2.18%	0.051%
49	6.125	6.110	6.131	VV	146746	1563128	2.11%	0.049%
50	6.142	6.131	6.166	VV	184316	2422499	3.26%	0.076%
51	6.192	6.166	6.209	VV	256328	3330665	4.49%	0.105%
52	6.244	6.209	6.261	VV	317963	5378157	7.25%	0.169%
53	6.276	6.261	6.285	VV	230373	2621028	3.53%	0.083%
54	6.295	6.285	6.301	VV	229460	2101850	2.83%	0.066%
55	6.316	6.301	6.330	VV	284413	4236919	5.71%	0.134%
56	6.339	6.330	6.358	VV	204525	2692856	3.63%	0.085%
57	6.384	6.358	6.403	VV	239538	4793931	6.46%	0.151%
58	6.426	6.403	6.457	VV	384255	8731164	11.77%	0.275%
59	6.469	6.457	6.493	VV	251190	4713638	6.35%	0.149%
60	6.509	6.493	6.522	VV	282929	3681339	4.96%	0.116%
61	6.552	6.522	6.561	VV	320490	6498945	8.76%	0.205%
62	6.566	6.561	6.595	VV	296826	4847851	6.53%	0.153%
63	6.615	6.595	6.639	VV	332458	6474636	8.73%	0.204%
64	6.661	6.639	6.679	VV	390552	7216797	9.73%	0.227%
65	6.686	6.679	6.703	VV	257626	3327836	4.48%	0.105%
66	6.711	6.703	6.722	VV	206351	2284126	3.08%	0.072%
67	6.743	6.722	6.791	VV	428956	10654764	14.36%	0.336%
68	6.829	6.791	6.842	VV	286739	6599865	8.89%	0.208%
69	6.866	6.842	6.877	VV	311279	5856590	7.89%	0.185%
70	6.899	6.877	6.920	VV	946339	14169179	19.10%	0.447%
71	6.936	6.920	6.958	VV	511669	8381216	11.30%	0.264%
72	6.971	6.958	6.983	VV	311715	4003174	5.40%	0.126%
73	6.995	6.983	7.006	VV	261567	3452933	4.65%	0.109%
74	7.025	7.006	7.046	VV	508801	8120389	10.94%	0.256%
75	7.073	7.046	7.097	VV	585074	11673061	15.73%	0.368%
76	7.107	7.097	7.121	VV	316540	3990166	5.38%	0.126%
77	7.149	7.121	7.175	VV	629773	12575125	16.95%	0.396%
78	7.215	7.175	7.235	VV	353770	9943988	13.40%	0.313%
79	7.276	7.235	7.296	VV	565308	14896608	20.08%	0.469%
80	7.316	7.296	7.348	VV	712325	13662680	18.41%	0.431%
81	7.376	7.348	7.410	VV	876356	19009041	25.62%	0.599%
82	7.423	7.410	7.442	VV	370460	6001310	8.09%	0.189%
83	7.471	7.442	7.499	VV	1617872	26997109	36.38%	0.851%
84	7.517	7.499	7.545	VV	948414	15929906	21.47%	0.502%
85	7.568	7.545	7.585	VV	589575	10088506	13.60%	0.318%
86	7.595	7.585	7.605	VV	374460	4444708	5.99%	0.140%
87	7.615	7.605	7.627	VV	369538	4642837	6.26%	0.146%
88	7.668	7.627	7.682	VV	675610	16484012	22.22%	0.519%
89	7.691	7.682	7.715	VV	507539	8516639	11.48%	0.268%

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90	7.742	7.715	7.769	VV	511895	14724030	19.84%	0.464%
91	7.778	7.769	7.796	VV	491289	7202609	9	
92	7.817	7.796	7.821	VV	431083	5986815	8	
93	7.825	7.821	7.842	VV	430604	5158563	6	
94	7.868	7.842	7.897	VV	991885	21247324	28	
95	7.917	7.897	7.938	VV	556525	10330277	13	
96	7.958	7.938	7.971	VV	439358	7363091	9.92%	0.232%
97	7.985	7.971	7.996	VV	520897	6883279	9.28%	0.217%
98	8.009	7.996	8.015	VV	541537	5684592	7.66%	0.179%
99	8.033	8.015	8.050	VV	754629	13128350	17.69%	0.414%
100	8.063	8.050	8.098	VV	542535	13016048	17.54%	0.410%
101	8.127	8.098	8.145	VV	669536	14170077	19.10%	0.447%
102	8.163	8.145	8.195	VV	567055	15272093	20.58%	0.481%
103	8.221	8.195	8.241	VV	569974	13336840	17.97%	0.420%
104	8.277	8.241	8.293	VV	815824	19460860	26.23%	0.613%
105	8.309	8.293	8.354	VV	870260	24041232	32.40%	0.758%
106	8.404	8.354	8.432	VV	2156644	52116162	70.24%	1.642%
107	8.454	8.432	8.473	VV	643409	14000789	18.87%	0.441%
108	8.506	8.473	8.521	VV	1603615	31671118	42.68%	0.998%
109	8.534	8.521	8.550	VV	1447847	19062665	25.69%	0.601%
110	8.560	8.550	8.564	VV	732768	6121749	8.25%	0.193%
111	8.579	8.564	8.604	VV	869357	17574137	23.68%	0.554%
112	8.625	8.604	8.641	VV	830813	15624464	21.06%	0.492%
113	8.672	8.641	8.712	VV	1040859	33411512	45.03%	1.053%
114	8.745	8.712	8.763	VV	1459560	28137357	37.92%	0.887%
115	8.777	8.763	8.788	VV	843126	12146684	16.37%	0.383%
116	8.799	8.788	8.815	VV	829037	11758529	15.85%	0.371%
117	8.828	8.815	8.842	VV	708973	10316901	13.90%	0.325%
118	8.869	8.842	8.895	VV	685188	19589459	26.40%	0.617%
119	8.910	8.895	8.921	VV	579545	8361446	11.27%	0.264%
120	8.942	8.921	8.957	VV	909188	15807761	21.30%	0.498%
121	8.976	8.957	8.993	VV	932076	17986129	24.24%	0.567%
122	9.002	8.993	9.018	VV	727524	9744692	13.13%	0.307%
123	9.041	9.018	9.064	VV	1360229	25492577	34.36%	0.803%
124	9.131	9.064	9.163	VV	2409734	66351933	89.42%	2.091%
125	9.173	9.163	9.188	VV	689624	9370629	12.63%	0.295%
126	9.206	9.188	9.213	VV	794801	11106382	14.97%	0.350%
127	9.232	9.213	9.249	VV	1394396	22574820	30.42%	0.711%
128	9.265	9.249	9.287	VV	1072376	19907469	26.83%	0.627%
129	9.301	9.287	9.318	VV	796557	12864795	17.34%	0.405%
130	9.353	9.318	9.369	VV	1062311	25371116	34.19%	0.800%
131	9.404	9.369	9.421	VV	1392296	31406834	42.33%	0.990%
132	9.448	9.421	9.467	VV	1518728	28742027	38.74%	0.906%
133	9.495	9.467	9.521	VV	851058	23247835	31.33%	0.733%
134	9.561	9.521	9.578	VV	1193899	28335762	38.19%	0.893%
135	9.594	9.578	9.608	VV	1149065	16203853	21.84%	0.511%
136	9.613	9.608	9.624	VV	656605	5862184	7.90%	0.185%
137	9.640	9.624	9.656	VV	706771	12920934	17.41%	0.407%
138	9.699	9.656	9.726	VV	1355741	38103225	51.35%	1.201%
139	9.737	9.726	9.757	VV	733846	12818888	17.28%	0.404%
140	9.780	9.757	9.796	VV	1402001	23585256	31.79%	0.743%
141	9.805	9.796	9.830	VV	1049099	17455251	23.52%	0.550%

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142	9.861	9.830	9.892	VV	1648150	38452558	51.82%	1.212%
143	9.899	9.892	9.912	VV	740692	8438396	11	
144	9.951	9.912	9.971	VV	1093897	31967554	43	
145	9.984	9.971	10.003	VV	1043241	16710337	22	
146	10.020	10.003	10.040	VV	743201	15868346	21	
147	10.056	10.040	10.083	VV	741358	16858372	22	
148	10.103	10.083	10.121	VV	952935	19268252	25.97%	0.607%
149	10.147	10.121	10.171	VV	1125174	28548536	38.47%	0.900%
150	10.190	10.171	10.239	VV	1327276	38874548	52.39%	1.225%
151	10.262	10.239	10.278	VV	812155	18460646	24.88%	0.582%
152	10.297	10.278	10.332	VV	893974	24082822	32.46%	0.759%
153	10.366	10.332	10.391	VV	927527	26210586	35.32%	0.826%
154	10.421	10.391	10.445	VV	716444	21757182	29.32%	0.686%
155	10.466	10.445	10.500	VV	748083	21648290	29.17%	0.682%
156	10.524	10.500	10.550	VV	969909	23697385	31.94%	0.747%
157	10.589	10.550	10.614	VV	2286818	52628839	70.93%	1.659%
158	10.663	10.614	10.689	VV	1180841	41666683	56.15%	1.313%
159	10.709	10.689	10.756	VV	1235356	35745528	48.17%	1.127%
160	10.783	10.756	10.794	VV	908922	17911832	24.14%	0.564%
161	10.798	10.794	10.820	VV	897230	12788637	17.24%	0.403%
162	10.857	10.820	10.895	VV	983665	38571207	51.98%	1.216%
163	10.927	10.895	10.944	VV	975921	26753498	36.06%	0.843%
164	10.952	10.944	10.971	VV	960877	14632304	19.72%	0.461%
165	11.018	10.971	11.040	VV	3337044	74201538	100.00%	2.338%
166	11.052	11.040	11.100	VV	908450	28490778	38.40%	0.898%
167	11.117	11.100	11.122	VV	704933	8859294	11.94%	0.279%
168	11.146	11.122	11.161	VV	755699	17047784	22.97%	0.537%
169	11.193	11.161	11.237	VV	1490606	42589529	57.40%	1.342%
170	11.264	11.237	11.299	VV	1058207	30383329	40.95%	0.958%
171	11.326	11.299	11.355	VV	1079833	28215005	38.02%	0.889%
172	11.364	11.355	11.381	VV	671379	10133061	13.66%	0.319%
173	11.407	11.381	11.432	VV	772184	21114868	28.46%	0.665%
174	11.468	11.432	11.473	VV	736009	17160268	23.13%	0.541%
175	11.498	11.473	11.518	VV	877397	21160930	28.52%	0.667%
176	11.548	11.518	11.566	VV	844331	22259389	30.00%	0.702%
177	11.584	11.566	11.607	VV	844536	18885741	25.45%	0.595%
178	11.634	11.607	11.651	VV	1004892	23026078	31.03%	0.726%
179	11.664	11.651	11.691	VV	819604	18590785	25.05%	0.586%
180	11.734	11.691	11.761	VV	2154635	53878068	72.61%	1.698%
181	11.784	11.761	11.810	VV	754528	19607109	26.42%	0.618%
182	11.839	11.810	11.861	VV	817390	21234918	28.62%	0.669%
183	11.880	11.861	11.887	VV	672564	10116720	13.63%	0.319%
184	11.899	11.887	11.906	VV	681835	7650635	10.31%	0.241%
185	11.912	11.906	11.921	VV	687691	6335797	8.54%	0.200%
186	11.937	11.921	11.963	VV	695820	16426297	22.14%	0.518%
187	11.994	11.963	12.007	VV	876766	20095404	27.08%	0.633%
188	12.025	12.007	12.057	VV	1050360	23710782	31.95%	0.747%
189	12.086	12.057	12.092	VV	630197	12190105	16.43%	0.384%
190	12.105	12.092	12.119	VV	662157	10149893	13.68%	0.320%
191	12.141	12.119	12.159	VV	821450	17688831	23.84%	0.557%
192	12.175	12.159	12.221	VV	779428	24612564	33.17%	0.776%
193	12.245	12.221	12.260	VV	577211	13040541	17.57%	0.411%
194	12.291	12.260	12.315	VV	1037117	25854928	34.84%	0.815%

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195	12.329	12.315	12.363	VV	680471	18065691	24.35%	0.569%
196	12.394	12.363	12.429	VV	613330	23068108	31	
197	12.440	12.429	12.483	VV	584243	17203938	23	
198	12.508	12.483	12.522	VV	606283	13266629	17	
199	12.582	12.522	12.602	VV	1069238	36629800	49	
200	12.622	12.602	12.638	VV	544450	11317728	15	
201	12.655	12.638	12.669	VV	559786	9625507	12.97%	0.303%
202	12.686	12.669	12.703	VV	572421	10994750	14.82%	0.346%
203	12.713	12.703	12.722	VV	558288	6135131	8.27%	0.193%
204	12.731	12.722	12.758	VV	561672	10893267	14.68%	0.343%
205	12.784	12.758	12.835	VV	648351	24408033	32.89%	0.769%
206	12.861	12.835	12.872	VV	556416	11006786	14.83%	0.347%
207	12.894	12.872	12.913	VV	750834	15128280	20.39%	0.477%
208	12.937	12.913	12.983	VV	845794	25064647	33.78%	0.790%
209	13.008	12.983	13.050	VV	785935	21181049	28.55%	0.668%
210	13.059	13.050	13.063	VV	389037	2957519	3.99%	0.093%
211	13.081	13.063	13.117	VV	406219	12296015	16.57%	0.388%
212	13.130	13.117	13.154	VV	406761	8322620	11.22%	0.262%
213	13.160	13.154	13.175	VV	348627	4294469	5.79%	0.135%
214	13.197	13.175	13.204	VV	373344	6209365	8.37%	0.196%
215	13.214	13.204	13.232	VV	371351	6136615	8.27%	0.193%
216	13.255	13.232	13.276	VV	366491	8907164	12.00%	0.281%
217	13.303	13.276	13.338	VV	594384	15057411	20.29%	0.475%
218	13.354	13.338	13.379	VV	343934	7840942	10.57%	0.247%
219	13.392	13.379	13.406	VV	346533	5466936	7.37%	0.172%
220	13.432	13.406	13.457	VV	474664	11732980	15.81%	0.370%
221	13.462	13.457	13.466	VV	321273	1749633	2.36%	0.055%
222	13.471	13.466	13.477	VV	324710	2180186	2.94%	0.069%
223	13.478	13.477	13.501	VV	324294	4442157	5.99%	0.140%
224	13.507	13.501	13.529	VV	295407	4380295	5.90%	0.138%
225	13.587	13.529	13.609	VV	349685	14248285	19.20%	0.449%
226	13.630	13.609	13.673	VV	364868	10902228	14.69%	0.344%
227	13.692	13.673	13.707	VV	273239	5169923	6.97%	0.163%
228	13.722	13.707	13.741	VV	282864	5227913	7.05%	0.165%
229	13.793	13.741	13.840	VV	659679	21064445	28.39%	0.664%
230	13.848	13.840	13.852	VV	225513	1610923	2.17%	0.051%
231	13.856	13.852	13.862	VV	226499	1278369	1.72%	0.040%
232	13.882	13.862	13.907	VV	272984	6360359	8.57%	0.200%
233	13.926	13.907	13.940	VV	190815	3615413	4.87%	0.114%
234	13.959	13.940	13.965	VV	194745	2819623	3.80%	0.089%
235	13.988	13.965	14.009	VV	248387	5685595	7.66%	0.179%
236	14.033	14.009	14.099	VV	244764	10537269	14.20%	0.332%
237	14.128	14.099	14.149	VV	376087	7501714	10.11%	0.236%
238	14.157	14.149	14.175	VV	195610	2834003	3.82%	0.089%
239	14.198	14.175	14.235	VV	173802	5731312	7.72%	0.181%
240	14.257	14.235	14.300	VV	149269	5321078	7.17%	0.168%
241	14.307	14.300	14.320	VV	117885	1352525	1.82%	0.043%
242	14.358	14.320	14.394	VV	175959	6362943	8.58%	0.201%
243	14.429	14.394	14.472	VV	127770	5399258	7.28%	0.170%
244	14.498	14.472	14.542	VV	133891	4849807	6.54%	0.153%
245	14.546	14.542	14.567	VV	111900	1532650	2.07%	0.048%
246	14.594	14.567	14.600	VV	109837	2138914	2.88%	0.067%

Instrument :
FID_F
ClientSampleId :
EX-5-TPH-1MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024

rteres

247	14.607	14.600	14.627	VV	108442	1610948	2.17%	0.051%
248	14.642	14.627	14.664	VV	100454	1981374	2	
249	14.689	14.664	14.706	VV	101197	2266046	3	
250	14.715	14.706	14.730	VV	93771	1275324	1	
251	14.754	14.730	14.770	VV	98445	2146447	2	
252	14.813	14.770	14.839	VV	118908	4103862	5	
253	14.852	14.839	14.876	VV	100274	1814561	2.45%	0.057%
254	14.886	14.876	14.892	VV	72643	658652	0.89%	0.021%
255	14.898	14.892	14.914	VV	72889	918555	1.24%	0.029%
256	14.947	14.914	14.952	VV	76390	1629629	2.20%	0.051%
257	14.955	14.952	14.961	VV	75573	388834	0.52%	0.012%
258	14.973	14.961	14.997	VV	76914	1474312	1.99%	0.046%
259	15.022	14.997	15.071	VV	151202	3745300	5.05%	0.118%
260	15.075	15.071	15.090	VV	51689	570258	0.77%	0.018%
261	15.117	15.090	15.134	VV	65089	1440694	1.94%	0.045%
262	15.161	15.134	15.181	VV	135192	2337363	3.15%	0.074%
263	15.227	15.181	15.275	VV	243942	5987032	8.07%	0.189%
264	15.283	15.275	15.288	VV	50239	374864	0.51%	0.012%
265	15.315	15.288	15.346	VV	57350	1760060	2.37%	0.055%
266	15.365	15.346	15.415	VV	65519	1880771	2.53%	0.059%
267	15.423	15.415	15.429	VV	30737	244296	0.33%	0.008%
268	15.435	15.429	15.440	VV	29744	200625	0.27%	0.006%
269	15.471	15.440	15.500	VV	52275	1464849	1.97%	0.046%
270	15.505	15.500	15.530	VV	39671	611540	0.82%	0.019%
271	15.541	15.530	15.549	VV	31803	334977	0.45%	0.011%
272	15.554	15.549	15.563	VV	31016	243124	0.33%	0.008%
273	15.601	15.563	15.632	VV	56805	1496805	2.02%	0.047%
274	15.666	15.632	15.721	VV	29995	1228918	1.66%	0.039%
275	15.773	15.721	15.783	VV	47020	1284204	1.73%	0.040%
276	15.789	15.783	15.813	VV	44204	632444	0.85%	0.020%
277	15.835	15.813	15.855	VV	47679	795176	1.07%	0.025%
278	15.882	15.855	15.905	VV	25174	551147	0.74%	0.017%
279	15.920	15.905	15.938	VV	16193	251866	0.34%	0.008%
280	15.974	15.938	15.981	VV	28287	496986	0.67%	0.016%
281	15.996	15.981	16.030	VV	35880	738660	1.00%	0.023%
282	16.063	16.030	16.108	VV	43386	1194156	1.61%	0.038%
283	16.124	16.108	16.151	VV	15626	325123	0.44%	0.010%
284	16.165	16.151	16.185	VV	11244	171604	0.23%	0.005%
285	16.203	16.185	16.212	VV	12283	144747	0.20%	0.005%
286	16.248	16.212	16.273	VV	202916	3017831	4.07%	0.095%
287	16.288	16.273	16.324	VV	30383	580428	0.78%	0.018%
288	16.340	16.324	16.371	VV	10027	139132	0.19%	0.004%
289	16.393	16.371	16.401	VV	5302	43593	0.06%	0.001%
290	16.441	16.401	16.452	VV	25935	503002	0.68%	0.016%
291	16.458	16.452	16.479	VV	23689	306245	0.41%	0.010%
292	16.497	16.479	16.519	VV	15035	306925	0.41%	0.010%
293	16.547	16.519	16.551	VV	29958	405536	0.55%	0.013%
294	16.561	16.551	16.599	VV	35866	777149	1.05%	0.024%
295	16.617	16.599	16.662	VV	28334	622422	0.84%	0.020%
296	16.717	16.662	16.765	PV	87826	2029011	2.73%	0.064%
297	16.770	16.765	16.800	VV	8961	106681	0.14%	0.003%
298	16.846	16.800	16.872	VV	24917	465518	0.63%	0.015%
299	16.886	16.872	16.892	VV	15572	141996	0.19%	0.004%

Instrument :
FID_F
ClientSampleId :
EX-5-TPH-1MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024

rteres

300	16.905	16.892	16.919	VV	20799	273247	0.37%	0.009%
301	16.948	16.919	16.982	VV	31904	871783		
302	17.037	16.982	17.062	VV	59697	1564232		
303	17.093	17.062	17.125	VV	63770	1017846		
304	17.154	17.125	17.160	PV	3956	35579		
305	17.197	17.160	17.276	VV	207957	3565941		
306	17.293	17.276	17.299	PV	3850	25666	0.03%	0.001%

Sum of corrected areas: 3173112510

FF102124.M Fri Oct 25 05:03:35 2024

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
RT MARKER		FF014758.D	FF102424	N-OCTACOSANE	Ankita	10/25/2024 11:44:20 AM	Peak Integrated by Software incorrectly
P4495-14		FF014761.D	FF102424	TETRACOSANE-d50 (SURROGA	Ankita	10/25/2024 11:44:21 AM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FF014764.D	FF102424	N-HEXADECANE	Ankita	10/25/2024 11:44:22 AM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FF014764.D	FF102424	N-TETRACOSANE	Ankita	10/25/2024 11:44:22 AM	Peak Integrated by Software incorrectly
P4518-01		FF014765.D	FF102424	TETRACOSANE-d50 (SURROGA	Ankita	10/25/2024 11:44:24 AM	Peak Integrated by Software incorrectly
P4518-01MS		FF014766.D	FF102424	N-DOCOSANE	Ankita	10/25/2024 11:44:27 AM	Peak Integrated by Software incorrectly
P4518-01MS		FF014766.D	FF102424	N-DODECANE	Ankita	10/25/2024 11:44:27 AM	Peak Integrated by Software incorrectly
P4518-01MS		FF014766.D	FF102424	N-DOTRIACONTANE	Ankita	10/25/2024 11:44:27 AM	Peak Integrated by Software incorrectly
P4518-01MS		FF014766.D	FF102424	N-EICOSANE	Ankita	10/25/2024 11:44:27 AM	Peak Integrated by Software incorrectly
P4518-01MS		FF014766.D	FF102424	N-HEXACOSANE	Ankita	10/25/2024 11:44:27 AM	Peak Integrated by Software incorrectly
P4518-01MS		FF014766.D	FF102424	N-HEXADECANE	Ankita	10/25/2024 11:44:27 AM	Peak Integrated by Software incorrectly
P4518-01MS		FF014766.D	FF102424	N-OCTACOSANE	Ankita	10/25/2024 11:44:27 AM	Peak Integrated by Software incorrectly
P4518-01MS		FF014766.D	FF102424	N-OCTADECANE	Ankita	10/25/2024 11:44:27 AM	Peak Integrated by Software incorrectly
P4518-01MS		FF014766.D	FF102424	N-OCTATRIACONTANE	Ankita	10/25/2024 11:44:27 AM	Peak Integrated by Software incorrectly
P4518-01MS		FF014766.D	FF102424	N-TETRACONTANE	Ankita	10/25/2024 11:44:27 AM	Peak Integrated by Software incorrectly
P4518-01MS		FF014766.D	FF102424	N-TETRACOSANE	Ankita	10/25/2024 11:44:27 AM	Peak Integrated by Software incorrectly
P4518-01MS		FF014766.D	FF102424	N-TETRADECANE	Ankita	10/25/2024 11:44:27 AM	Peak Integrated by Software incorrectly
P4518-01MS		FF014766.D	FF102424	N-TETRATRIACONTANE	Ankita	10/25/2024 11:44:27 AM	Peak Integrated by Software incorrectly
P4518-01MS		FF014766.D	FF102424	N-TRIACONTANE	Ankita	10/25/2024 11:44:27 AM	Peak Integrated by Software incorrectly
P4518-01MS		FF014766.D	FF102424	TETRACOSANE-d50 (SURROGA	Ankita	10/25/2024 11:44:27 AM	Peak Integrated by Software incorrectly
P4518-01MSD		FF014767.D	FF102424	N-DOCOSANE	Ankita	10/25/2024 11:44:29 AM	Peak Integrated by Software incorrectly
P4518-01MSD		FF014767.D	FF102424	N-DODECANE	Ankita	10/25/2024 11:44:29 AM	Peak Integrated by Software incorrectly

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

Manual Integration Report

P4518-01MSD		FF014767.D	FF102424	N-DOTRIACONTANE	Ankita	10/25/2024 11:44:29 AM	Peak Integrated by Software incorrectly
P4518-01MSD		FF014767.D	FF102424	N-EICOSANE	Ankita	10/25/2024 11:44:29 AM	Peak Integrated by Software incorrectly
P4518-01MSD		FF014767.D	FF102424	N-HEXACOSANE	Ankita	10/25/2024 11:44:29 AM	Peak Integrated by Software incorrectly
P4518-01MSD		FF014767.D	FF102424	N-HEXADECANE	Ankita	10/25/2024 11:44:29 AM	Peak Integrated by Software incorrectly
P4518-01MSD		FF014767.D	FF102424	N-HEXATRIACONTANE	Ankita	10/25/2024 11:44:29 AM	Peak Integrated by Software incorrectly
P4518-01MSD		FF014767.D	FF102424	N-OCTACOSANE	Ankita	10/25/2024 11:44:29 AM	Peak Integrated by Software incorrectly
P4518-01MSD		FF014767.D	FF102424	N-OCTADECANE	Ankita	10/25/2024 11:44:29 AM	Peak Integrated by Software incorrectly
P4518-01MSD		FF014767.D	FF102424	N-OCTATRIACONTANE	Ankita	10/25/2024 11:44:29 AM	Peak Integrated by Software incorrectly
P4518-01MSD		FF014767.D	FF102424	N-TETRACOSANE	Ankita	10/25/2024 11:44:29 AM	Peak Integrated by Software incorrectly
P4518-01MSD		FF014767.D	FF102424	N-TETRADECANE	Ankita	10/25/2024 11:44:29 AM	Peak Integrated by Software incorrectly
P4518-01MSD		FF014767.D	FF102424	N-TETRATRIACONTANE	Ankita	10/25/2024 11:44:29 AM	Peak Integrated by Software incorrectly
P4518-01MSD		FF014767.D	FF102424	N-TRIACONTANE	Ankita	10/25/2024 11:44:29 AM	Peak Integrated by Software incorrectly
P4518-01MSD		FF014767.D	FF102424	TETRACOSANE-d50 (SURROGA	Ankita	10/25/2024 11:44:29 AM	Peak Integrated by Software incorrectly
P4518-05		FF014768.D	FF102424	TETRACOSANE-d50 (SURROGA	Ankita	10/25/2024 11:44:31 AM	Peak Integrated by Software incorrectly
P4518-04		FF014769.D	FF102424	TETRACOSANE-d50 (SURROGA	Ankita	10/25/2024 11:44:32 AM	Peak Integrated by Software incorrectly
P4518-03		FF014770.D	FF102424	TETRACOSANE-d50 (SURROGA	Ankita	10/25/2024 11:44:34 AM	Peak Integrated by Software incorrectly
P4518-02		FF014771.D	FF102424	TETRACOSANE-d50 (SURROGA	Ankita	10/25/2024 11:44:36 AM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FF014773.D	FF102424	N-TETRACOSANE	Ankita	10/25/2024 11:44:39 AM	Peak Integrated by Software incorrectly

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
P4518-01		FF014779.D	FF102524	TETRACOSANE-d50 (SURROGA	Ankita	10/28/2024 10:36:32 AM	Peak Integrated by Software incorrectly
P4518-03		FF014782.D	FF102524	TETRACOSANE-d50 (SURROGA	Ankita	10/28/2024 10:36:34 AM	Peak Integrated by Software incorrectly
I.BLK		FF014786.D	FF102524	TETRACOSANE-d50 (SURROGA	Ankita	10/28/2024 10:36:35 AM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FF014787.D	FF102524	TETRACOSANE-d50 (SURROGA	Ankita	10/28/2024 10:36:37 AM	Peak Integrated by Software incorrectly
I.BLK		FF014788.D	FF102524	TETRACOSANE-d50 (SURROGA	Ankita	10/28/2024 10:36:39 AM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FF014789.D	FF102524	TETRACOSANE-d50 (SURROGA	Ankita	10/28/2024 10:36:40 AM	Peak Integrated by Software incorrectly
PB164426BS		FF014792.D	FF102524	N-HEXATRIACONTANE	Ankita	10/28/2024 10:36:42 AM	Peak Integrated by Software incorrectly
P4509-01		FF014793.D	FF102524	TETRACOSANE-d50 (SURROGA	Ankita	10/28/2024 10:36:43 AM	Peak Integrated by Software incorrectly
P4509-01MS		FF014794.D	FF102524	N-HEXATRIACONTANE	Ankita	10/28/2024 10:36:45 AM	Peak Integrated by Software incorrectly
P4509-01MS		FF014794.D	FF102524	N-OCTATRIACONTANE	Ankita	10/28/2024 10:36:45 AM	Peak Integrated by Software incorrectly
P4509-01MS		FF014794.D	FF102524	N-TETRACONTANE	Ankita	10/28/2024 10:36:45 AM	Peak Integrated by Software incorrectly
P4509-01MS		FF014794.D	FF102524	N-TETRATRIACONTANE	Ankita	10/28/2024 10:36:45 AM	Peak Integrated by Software incorrectly
P4509-01MS		FF014794.D	FF102524	N-TRIACONTANE	Ankita	10/28/2024 10:36:45 AM	Peak Integrated by Software incorrectly
P4509-01MSD		FF014795.D	FF102524	N-HEXATRIACONTANE	Ankita	10/28/2024 10:36:46 AM	Peak Integrated by Software incorrectly
P4509-01MSD		FF014795.D	FF102524	N-OCTADECANE	Ankita	10/28/2024 10:36:46 AM	Peak Integrated by Software incorrectly
P4509-01MSD		FF014795.D	FF102524	N-OCTATRIACONTANE	Ankita	10/28/2024 10:36:46 AM	Peak Integrated by Software incorrectly
P4509-01MSD		FF014795.D	FF102524	N-TETRACONTANE	Ankita	10/28/2024 10:36:46 AM	Peak Integrated by Software incorrectly
P4509-01MSD		FF014795.D	FF102524	N-TRIACONTANE	Ankita	10/28/2024 10:36:46 AM	Peak Integrated by Software incorrectly
P4509-01		FF014796.D	FF102524	TETRACOSANE-d50 (SURROGA	Ankita	10/28/2024 10:36:48 AM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FF014799.D	FF102524	N-TETRACONTANE	Ankita	10/28/2024 10:36:49 AM	Peak Integrated by Software incorrectly

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF102124

Review By	yogesh	Review On	10/21/2024 1:40:56 PM		
Supervise By	Ankita	Supervise On	10/22/2024 8:58:33 AM		
SubDirectory	FF102124	HP Acquire Method		HP Processing Method	FF102124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF014704.D	21 Oct 2024 14:21	YP\AJ	Ok
2	I.BLK	FF014705.D	21 Oct 2024 14:50	YP\AJ	Ok
3	100 TRPH STD	FF014706.D	21 Oct 2024 15:19	YP\AJ	Ok
4	50 TRPH STD	FF014707.D	21 Oct 2024 15:48	YP\AJ	Ok,M
5	20 TRPH STD	FF014708.D	21 Oct 2024 16:17	YP\AJ	Ok
6	10 TRPH STD	FF014709.D	21 Oct 2024 16:46	YP\AJ	Ok
7	5 TRPH STD	FF014710.D	21 Oct 2024 17:15	YP\AJ	Ok
8	FF102124ICV	FF014711.D	21 Oct 2024 17:44	YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF102424

Review By	yogesh	Review On	10/24/2024 1:31:24 PM		
Supervise By	Ankita	Supervise On	10/25/2024 11:44:57 AM		
SubDirectory	FF102424	HP Acquire Method		HP Processing Method	FF102124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF014755.D	24 Oct 2024 10:42	YP\AJ	Ok
2	I.BLK	FF014756.D	24 Oct 2024 12:00	YP\AJ	Ok
3	50 PPM TRPH STD	FF014757.D	24 Oct 2024 12:59	YP\AJ	Ok
4	RT MARKER	FF014758.D	24 Oct 2024 13:32	YP\AJ	Ok,M
5	PB164381BL	FF014759.D	24 Oct 2024 14:33	YP\AJ	Ok
6	PB164381BS	FF014760.D	24 Oct 2024 15:02	YP\AJ	Ok
7	P4495-14	FF014761.D	24 Oct 2024 15:31	YP\AJ	Dilution
8	P4495-14	FF014762.D	24 Oct 2024 16:06	YP\AJ	Dilution
9	I.BLK	FF014763.D	24 Oct 2024 16:35	YP\AJ	Ok
10	50 PPM TRPH STD	FF014764.D	24 Oct 2024 17:33	YP\AJ	Ok,M
11	P4518-01	FF014765.D	24 Oct 2024 19:29	YP\AJ	Dilution
12	P4518-01MS	FF014766.D	24 Oct 2024 19:58	YP\AJ	Ok,M
13	P4518-01MSD	FF014767.D	24 Oct 2024 20:27	YP\AJ	Ok,M
14	P4518-05	FF014768.D	24 Oct 2024 20:56	YP\AJ	Dilution
15	P4518-04	FF014769.D	24 Oct 2024 21:25	YP\AJ	Dilution
16	P4518-03	FF014770.D	24 Oct 2024 21:54	YP\AJ	Dilution
17	P4518-02	FF014771.D	24 Oct 2024 22:23	YP\AJ	Dilution
18	I.BLK	FF014772.D	24 Oct 2024 22:52	YP\AJ	Ok
19	50 PPM TRPH STD	FF014773.D	24 Oct 2024 23:50	YP\AJ	Ok,M

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF102524

Review By	yogesh	Review On	10/25/2024 11:01:26 AM		
Supervise By	Ankita	Supervise On	10/28/2024 10:37:03 AM		
SubDirectory	FF102524	HP Acquire Method		HP Processing Method	FF102124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF014774.D	25 Oct 2024 05:42	YP\AJ	Ok
2	I.BLK	FF014775.D	25 Oct 2024 06:11	YP\AJ	Ok
3	50 PPM TRPH STD	FF014776.D	25 Oct 2024 06:40	YP\AJ	Ok
4	RT MARKER	FF014777.D	25 Oct 2024 07:08	YP\AJ	Ok
5	P4495-14	FF014778.D	25 Oct 2024 08:27	YP\AJ	Ok
6	P4518-01	FF014779.D	25 Oct 2024 08:55	YP\AJ	Ok,M
7	P4518-05	FF014780.D	25 Oct 2024 09:24	YP\AJ	Dilution
8	P4518-04	FF014781.D	25 Oct 2024 09:53	YP\AJ	Dilution
9	P4518-03	FF014782.D	25 Oct 2024 10:22	YP\AJ	Ok,M
10	P4518-02	FF014783.D	25 Oct 2024 10:51	YP\AJ	Ok
11	P4518-05	FF014784.D	25 Oct 2024 11:20	YP\AJ	Ok
12	P4518-04	FF014785.D	25 Oct 2024 11:49	YP\AJ	Ok
13	I.BLK	FF014786.D	25 Oct 2024 12:17	YP\AJ	Ok,M
14	50 PPM TRPH STD	FF014787.D	25 Oct 2024 12:46	YP\AJ	Ok,M
15	I.BLK	FF014788.D	25 Oct 2024 13:56	YP\AJ	Ok,M
16	50 PPM TRPH STD	FF014789.D	25 Oct 2024 14:24	YP\AJ	Ok,M
17	RT MARKER	FF014790.D	25 Oct 2024 14:53	YP\AJ	Ok
18	PB164426BL	FF014791.D	25 Oct 2024 16:21	YP\AJ	Ok
19	PB164426BS	FF014792.D	25 Oct 2024 16:50	YP\AJ	Ok,M
20	P4509-01	FF014793.D	25 Oct 2024 17:19	YP\AJ	Dilution
21	P4509-01MS	FF014794.D	25 Oct 2024 17:48	YP\AJ	Ok,M

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF102524

Review By	yogesh	Review On	10/25/2024 11:01:26 AM		
Supervise By	Ankita	Supervise On	10/28/2024 10:37:03 AM		
SubDirectory	FF102524	HP Acquire Method		HP Processing Method	FF102124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4509-01MSD	FF014795.D	25 Oct 2024 18:17	YP\AJ	Ok,M
23	P4509-01	FF014796.D	25 Oct 2024 18:46	YP\AJ	Not Ok
24	P4509-01	FF014797.D	25 Oct 2024 19:15	YP\AJ	Not Ok
25	I.BLK	FF014798.D	25 Oct 2024 19:43	YP\AJ	Ok
26	50 PPM TRPH STD	FF014799.D	25 Oct 2024 20:41	YP\AJ	Ok,M

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF102124

Review By	yogesh	Review On	10/21/2024 1:40:56 PM		
Supervise By	Ankita	Supervise On	10/22/2024 8:58:33 AM		
SubDirectory	FF102124	HP Acquire Method		HP Processing Method	FF102124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FF014704.D	21 Oct 2024 14:21		YP\AJ	Ok
2	I.BLK		FF014705.D	21 Oct 2024 14:50		YP\AJ	Ok
3	100 TRPH STD		FF014706.D	21 Oct 2024 15:19		YP\AJ	Ok
4	50 TRPH STD		FF014707.D	21 Oct 2024 15:48		YP\AJ	Ok,M
5	20 TRPH STD		FF014708.D	21 Oct 2024 16:17		YP\AJ	Ok
6	10 TRPH STD		FF014709.D	21 Oct 2024 16:46		YP\AJ	Ok
7	5 TRPH STD		FF014710.D	21 Oct 2024 17:15		YP\AJ	Ok
8	FF102124ICV		FF014711.D	21 Oct 2024 17:44		YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF102424

Review By	yogesh	Review On	10/24/2024 1:31:24 PM		
Supervise By	Ankita	Supervise On	10/25/2024 11:44:57 AM		
SubDirectory	FF102424	HP Acquire Method		HP Processing Method	FF102124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FF014755.D	24 Oct 2024 10:42		YP\AJ	Ok
2	I.BLK		FF014756.D	24 Oct 2024 12:00		YP\AJ	Ok
3	50 PPM TRPH STD		FF014757.D	24 Oct 2024 12:59		YP\AJ	Ok
4	RT MARKER		FF014758.D	24 Oct 2024 13:32		YP\AJ	Ok,M
5	PB164381BL		FF014759.D	24 Oct 2024 14:33		YP\AJ	Ok
6	PB164381BS		FF014760.D	24 Oct 2024 15:02		YP\AJ	Ok
7	P4495-14		FF014761.D	24 Oct 2024 15:31	need 25x dilution	YP\AJ	Dilution
8	P4495-14		FF014762.D	24 Oct 2024 16:06		YP\AJ	Dilution
9	I.BLK		FF014763.D	24 Oct 2024 16:35		YP\AJ	Ok
10	50 PPM TRPH STD		FF014764.D	24 Oct 2024 17:33		YP\AJ	Ok,M
11	P4518-01		FF014765.D	24 Oct 2024 19:29	need 50x dilution	YP\AJ	Dilution
12	P4518-01MS		FF014766.D	24 Oct 2024 19:58		YP\AJ	Ok,M
13	P4518-01MSD		FF014767.D	24 Oct 2024 20:27		YP\AJ	Ok,M
14	P4518-05		FF014768.D	24 Oct 2024 20:56	need 50x dilution	YP\AJ	Dilution
15	P4518-04		FF014769.D	24 Oct 2024 21:25	need 100x dilution	YP\AJ	Dilution
16	P4518-03		FF014770.D	24 Oct 2024 21:54	need 20x dilution	YP\AJ	Dilution
17	P4518-02		FF014771.D	24 Oct 2024 22:23	need 20x dilution further	YP\AJ	Dilution
18	I.BLK		FF014772.D	24 Oct 2024 22:52		YP\AJ	Ok

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF102424

Review By	yogesh	Review On	10/24/2024 1:31:24 PM		
Supervise By	Ankita	Supervise On	10/25/2024 11:44:57 AM		
SubDirectory	FF102424	HP Acquire Method		HP Processing Method	FF102124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	50 PPM TRPH STD		FF014773.D	24 Oct 2024 23:50		YP\AJ	Ok,M

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF102524

Review By	yogesh	Review On	10/25/2024 11:01:26 AM		
Supervise By	Ankita	Supervise On	10/28/2024 10:37:03 AM		
SubDirectory	FF102524	HP Acquire Method		HP Processing Method	FF102124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FF014774.D	25 Oct 2024 05:42		YP\AJ	Ok
2	I.BLK		FF014775.D	25 Oct 2024 06:11		YP\AJ	Ok
3	50 PPM TRPH STD		FF014776.D	25 Oct 2024 06:40		YP\AJ	Ok
4	RT MARKER		FF014777.D	25 Oct 2024 07:08		YP\AJ	Ok
5	P4495-14		FF014778.D	25 Oct 2024 08:27		YP\AJ	Ok
6	P4518-01		FF014779.D	25 Oct 2024 08:55		YP\AJ	Ok,M
7	P4518-05		FF014780.D	25 Oct 2024 09:24	need further dilution	YP\AJ	Dilution
8	P4518-04		FF014781.D	25 Oct 2024 09:53	need further dilution	YP\AJ	Dilution
9	P4518-03		FF014782.D	25 Oct 2024 10:22		YP\AJ	Ok,M
10	P4518-02		FF014783.D	25 Oct 2024 10:51		YP\AJ	Ok
11	P4518-05		FF014784.D	25 Oct 2024 11:20		YP\AJ	Ok
12	P4518-04		FF014785.D	25 Oct 2024 11:49		YP\AJ	Ok
13	I.BLK		FF014786.D	25 Oct 2024 12:17		YP\AJ	Ok,M
14	50 PPM TRPH STD		FF014787.D	25 Oct 2024 12:46		YP\AJ	Ok,M
15	I.BLK		FF014788.D	25 Oct 2024 13:56		YP\AJ	Ok,M
16	50 PPM TRPH STD		FF014789.D	25 Oct 2024 14:24		YP\AJ	Ok,M
17	RT MARKER		FF014790.D	25 Oct 2024 14:53		YP\AJ	Ok
18	PB164426BL		FF014791.D	25 Oct 2024 16:21		YP\AJ	Ok

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF102524

Review By	yogesh	Review On	10/25/2024 11:01:26 AM		
Supervise By	Ankita	Supervise On	10/28/2024 10:37:03 AM		
SubDirectory	FF102524	HP Acquire Method		HP Processing Method	FF102124

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616
CCC	PP23613
Internal Standard/PEM	
ICV/I.BLK	PP23612,PP23617
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB164426BS		FF014792.D	25 Oct 2024 16:50		YP\AJ	Ok,M
20	P4509-01		FF014793.D	25 Oct 2024 17:19	need 5x dilution	YP\AJ	Dilution
21	P4509-01MS		FF014794.D	25 Oct 2024 17:48		YP\AJ	Ok,M
22	P4509-01MSD		FF014795.D	25 Oct 2024 18:17		YP\AJ	Ok,M
23	P4509-01		FF014796.D	25 Oct 2024 18:46	not required	YP\AJ	Not Ok
24	P4509-01		FF014797.D	25 Oct 2024 19:15	not required	YP\AJ	Not Ok
25	I.BLK		FF014798.D	25 Oct 2024 19:43		YP\AJ	Ok
26	50 PPM TRPH STD		FF014799.D	25 Oct 2024 20:41		YP\AJ	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133085

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
P4488-09	HCC-1	1	1.00	1.00	2.00	2.00	100.0	oil sample
P4488-10	HCC-2	2	1.00	1.00	2.00	2.00	100.0	oil sample
P4495-01	PT-AN-SOIL	3	1.00	1.00	2.00	2.00	100.0	
P4495-02	PT-CORR-SOIL	4	1.00	1.00	2.00	2.00	100.0	
P4495-03	PT-CN-SOIL	5	1.00	1.00	2.00	2.00	100.0	
P4495-04	PT-CN-SOIL	6	1.00	1.00	2.00	2.00	100.0	
P4495-05	PT-FP-SOIL	7	1.00	1.00	2.00	2.00	100.0	
P4495-06	PT-CR6-SOIL	8	1.00	1.00	2.00	2.00	100.0	
P4495-07	PT-NUT-SOIL	9	1.00	1.00	2.00	2.00	100.0	
P4495-08	PT-NUT-SOIL	10	1.00	1.00	2.00	2.00	100.0	
P4495-09	PT-OGR-SOIL	11	1.00	1.00	2.00	2.00	100.0	
P4495-10	PT-MET-SOIL	12	1.00	1.00	2.00	2.00	100.0	
P4495-11	PT-BNA-SOIL	13	1.00	1.00	2.00	2.00	100.0	
P4495-12	PT-TRIAZINE-SOIL	14	1.00	1.00	2.00	2.00	100.0	
P4495-13	PT-PAH-SOIL	15	1.00	1.00	2.00	2.00	100.0	
P4495-14	PT-DIES-SOIL	16	1.00	1.00	2.00	2.00	100.0	
P4495-15	PT-GAS-SOIL	17	1.00	1.00	2.00	2.00	100.0	
P4495-16	PT-NJEPH-SOIL	18	1.00	1.00	2.00	2.00	100.0	
P4495-17	PT-HERB-SOIL	19	1.00	1.00	2.00	2.00	100.0	
P4495-18	PT-PCB-SOIL	20	1.00	1.00	2.00	2.00	100.0	
P4495-19	PT-PCBO-SOIL	21	1.00	1.00	2.00	2.00	100.0	
P4495-20	PT-PEST-SOIL	22	1.00	1.00	2.00	2.00	100.0	
P4495-21	PT-CHLR-SOIL	23	1.00	1.00	2.00	2.00	100.0	
P4495-22	PT-TXP-SOIL	24	1.00	1.00	2.00	2.00	100.0	
P4495-23	PT-VOA-SOIL	25	1.00	1.00	2.00	2.00	100.0	
P4495-24	PT-SOL-SOIL	26	0.92	8.80	9.72	7.58	75.7	
P4495-25	PT-NO2-SOIL	27	1.00	1.00	2.00	2.00	100.0	
P4508-01	TP-3	28	1.14	8.38	9.52	8.64	89.5	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133085

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
P4508-02	TP-3-EPH	29	1.15	8.81	9.96	9.22	91.6	
P4508-03	TP-3-VOC	30	1.15	8.66	9.81	8.88	89.3	
P4508-05	BP-F23	31	1.15	8.82	9.97	9.22	91.5	
P4508-06	BP-F23-EPH	32	1.14	8.83	9.97	9.29	92.3	
P4508-07	BP-F23-VOC	33	1.15	8.40	9.55	8.61	88.8	
P4508-09	BP-F22	34	1.18	8.78	9.96	9.15	90.8	
P4508-10	BP-F22-EPH	35	1.15	8.70	9.85	8.98	90.0	
P4508-11	BP-F22-VOC	36	1.16	8.60	9.76	8.68	87.4	
P4509-02	AU-06-10232024	37	1.12	8.82	9.94	9.44	94.3	
P4510-01	FDH119M-1-1	38	1.00	1.00	2.00	2.00	100.0	pilc
P4510-02	FDH119M-1-2	39	1.00	1.00	2.00	2.00	100.0	pilc
P4510-03	BC271327-1-1	40	1.00	1.00	2.00	2.00	100.0	pilc
P4510-04	BC271327-1-2	41	1.00	1.00	2.00	2.00	100.0	pilc
P4510-05	BC271327-2-1	42	1.00	1.00	2.00	2.00	100.0	pilc
P4510-06	BC271327-2-2	43	1.00	1.00	2.00	2.00	100.0	pilc
P4510-07	FDA886K-1-1	44	1.00	1.00	2.00	2.00	100.0	pilc
P4510-08	FDA886K-1-2	45	1.00	1.00	2.00	2.00	100.0	pilc
P4510-09	FDA886K-2-1	46	1.00	1.00	2.00	2.00	100.0	pilc
P4510-10	FDA886K-2-2	47	1.00	1.00	2.00	2.00	100.0	pilc
P4510-11	HID111K-1-1	48	1.00	1.00	2.00	2.00	100.0	pilc
P4510-12	HID111K-1-2	49	1.00	1.00	2.00	2.00	100.0	pilc
P4510-13	HID111K-2-1	50	1.00	1.00	2.00	2.00	100.0	pilc
P4510-14	HID111K-2-2	51	1.00	1.00	2.00	2.00	100.0	pilc
P4510-15	HID111K-3-1	52	1.00	1.00	2.00	2.00	100.0	pilc
P4510-16	HID111K-3-2	53	1.00	1.00	2.00	2.00	100.0	pilc
P4510-17	FDA563W-1-1	54	1.00	1.00	2.00	2.00	100.0	pilc
P4510-18	FDA563W-1-2	55	1.00	1.00	2.00	2.00	100.0	pilc
P4510-19	FDA563W-2-1	56	1.00	1.00	2.00	2.00	100.0	pilc

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/25/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 10/24/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133085

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
P4510-20	FDA563W-2-2	57	1.00	1.00	2.00	2.00	100.0	oilc
P4510-21	JEC128C-1-1	58	1.00	1.00	2.00	2.00	100.0	oilc
P4510-22	JEC128C-1-2	59	1.00	1.00	2.00	2.00	100.0	oilc
P4510-23	JEC128C-2-1	60	1.00	1.00	2.00	2.00	100.0	oilc
P4510-24	JEC128C-2-2	61	1.00	1.00	2.00	2.00	100.0	oilc
P4511-02	267	62	1.00	1.00	2.00	2.00	100.0	debris
P4512-03	VNJ-212	63	1.15	8.81	9.96	9.66	96.6	
P4512-04	VNJ-212-E2	64	1.16	8.48	9.64	9.39	97.1	
P4513-01	D3683	65	1.00	1.00	2.00	2.00	100.0	oil sample
P4513-02	D3694	66	1.00	1.00	2.00	2.00	100.0	debris
P4513-03	D3695	67	1.00	1.00	2.00	2.00	100.0	debris
P4514-01	BC274653-1-1	68	1.00	1.00	2.00	2.00	100.0	oilc
P4514-02	BC274653-1-2	69	1.00	1.00	2.00	2.00	100.0	oilc
P4514-03	BC274767-1-1	70	1.00	1.00	2.00	2.00	100.0	oilc
P4514-04	BC274767-1-2	71	1.00	1.00	2.00	2.00	100.0	oilc
P4514-05	BC274767-2-1	72	1.00	1.00	2.00	2.00	100.0	oilc
P4514-06	BC274767-2-2	73	1.00	1.00	2.00	2.00	100.0	oilc
P4515-01	CHVB0783	74	1.15	8.83	9.98	5.28	46.8	
P4516-01	72-11986	75	1.12	8.67	9.79	8.93	90.1	
P4517-01	NASSAU-ST-CO	76	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-03	S.JEFFERSON-CO-1	77	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-05	S.JEFFERSON-CO-2	78	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4517-07	FOREST-ST-CO	79	1.00	1.00	2.00	2.00	100.0	CONCRETE sample

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

WORKLIST(Hardcopy Internal Chain)

MB133085

WorkList Name : %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4488-09	HCC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/22/2024	Chemtech -SO
P4488-10	HCC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/22/2024	Chemtech -SO
P4495-01	PT-AN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-02	PT-CORR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-03	PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-04	PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-05	PT-FP-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-06	PT-CR6-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-07	PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-08	PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-09	PT-OGR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-10	PT-MET-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-11	PT-BNA-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-12	PT-TRIAZINE-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-13	PT-PAH-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-14	PT-DIES-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-15	PT-GAS-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-16	PT-NJEPH-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-17	PT-HERB-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-18	PT-PCB-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-19	PT-PCBO-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO

Date/Time 10/23/24 16:00

Raw Sample Received by: JB (WC)

Raw Sample Relinquished by:

Date/Time 10/23/24 17:30

Raw Sample Received by:

Raw Sample Relinquished by: JB (WC)

WORKLIST(Hardcopy Internal Chain)

WB 133085

WorkList Name : %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4495-20	PT-PEST-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-21	PT-CHLR-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-22	PT-TXP-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-23	PT-VOA-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-24	PT-SOL-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4495-25	PT-NO2-SOIL	Solid	Percent Solids	Cool 4 deg C	CHEM02	QA Of	10/21/2024	Chemtech -SO
P4508-01	TP-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-02	TP-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-03	TP-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-05	BP-F23	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-06	BP-F23-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-07	BP-F23-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-09	BP-F22	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-10	BP-F22-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4508-11	BP-F22-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/23/2024	Chemtech -SO
P4509-02	AU-06-10232024	Solid	Percent Solids	Cool 4 deg C	PSEG05	K61	10/23/2024	Chemtech -SO
P4510-01	FDH119M-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-02	FDH119M-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-03	BC271327-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-04	BC271327-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-05	BC271327-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time 10/23/24 16:00

Raw Sample Received by: JB (WC)

Raw Sample Relinquished by: CP

Date/Time 10/23/24 17:30

Raw Sample Received by: CP

Raw Sample Relinquished by: JB WC

WORKLIST(Hardcopy Internal Chain)

B33085

WorkList Name : %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4510-06	BC271327-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-07	FDA886K-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-08	FDA886K-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-09	FDA886K-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-10	FDA886K-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-11	HID111K-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-12	HID111K-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-13	HID111K-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-14	HID111K-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-15	HID111K-3-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-16	HID111K-3-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-17	FDA563W-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-18	FDA563W-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-19	FDA563W-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-20	FDA563W-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-21	JEC128C-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-22	JEC128C-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-23	JEC128C-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4510-24	JEC128C-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4511-02	267	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4512-03	VNJ-212	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time 10/23/24 1610

Raw Sample Received by: JB CWC

Raw Sample Relinquished by: CP

Date/Time 10/23/24 1730

Raw Sample Received by: CP

Raw Sample Relinquished by: JB CWC

WORKLIST(Hardcopy Internal Chain)

WB 133085

WorkList Name : %1-102324 **WorkList ID :** 184679 **Department :** Wet-Chemistry **Date :** 10-23-2024 08:16:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4512-04	VNJ-212-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-01	D3683	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-02	D3694	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4513-03	D3695	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4514-01	BC274653-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-02	BC274653-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-03	BC274767-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-04	BC274767-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-05	BC274767-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4514-06	BC274767-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	10/23/2024	Chemtech -SO
P4515-01	CHVB0783	Solid	Percent Solids	Cool 4 deg C	PSEG03	K62	10/23/2024	Chemtech -SO
P4516-01	72-11986	Solid	Percent Solids	Cool 4 deg C	PSEG03	K62	10/23/2024	Chemtech -SO
P4517-01	NASSAU-ST-CO	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-03	S.JEFFERSON-CO-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-05	S.JEFFERSON-CO-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO
P4517-07	FOREST-ST-CO	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/23/2024	Chemtech -SO

Date/Time 10/23/24 16:00

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 10/23/24 17:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164381

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: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 10/24/2024

Extraction Start Time : 11:10

Extraction End Date : 10/24/2024

Extraction End Time : 14:10

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
Surrogate	1.0ML	20 PPM	PP23518
Spike Sol 1	1.0ML	20 PPM	PP23454
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	EP2538
Baked Na2SO4	N/A	EP2551
Sand	N/A	E2865
Methylene Chloride	N/A	E3822
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

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
10/24/24	RP (Ext Lab)	Y-P PB#/PB
14:15	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164381

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 10/24/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164381BL	PB164381BL	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1			U1-1
PB164381BS	PB164381BS	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1			2
P4495-14	PT-DIES-SOIL	Diesel Range Organics	20.12	N/A	ritesh	Evelyn	1			3
P4518-01	EX-5-TPH-1	Diesel Range Organics	30.09	N/A	ritesh	Evelyn	1	E		4
P4518-01MS	EX-5-TPH-1MS	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	E		5
P4518-01MSD	EX-5-TPH-1MSD	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	E		6
P4518-02	EX-5-TPH-2	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1	E		U5-1
P4518-03	EX-5-TPH-3	Diesel Range Organics	30.10	N/A	ritesh	Evelyn	1	E		2
P4518-04	EX-5-TPH-4	Diesel Range Organics	30.08	N/A	ritesh	Evelyn	1	E		3
P4518-05	EX-5-TPH-5	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	E		4

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

10/24/24

11:10
164351

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4518 **WorkList ID :** 184740 **Department :** Extraction **Date :** 10-24-2024 11:04:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4495-14	PT-DIES-SOIL	Solid	Diesel Range Organics	Cool 4 deg C	CHEM02	QA Of	10/21/2024	8015D
P4518-01	EX-5-TPH-1	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	K61	10/23/2024	8015D
P4518-02	EX-5-TPH-2	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	K61	10/23/2024	8015D
P4518-03	EX-5-TPH-3	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	K61	10/23/2024	8015D
P4518-04	EX-5-TPH-4	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	K61	10/23/2024	8015D
P4518-05	EX-5-TPH-5	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	K61	10/23/2024	8015D

Date/Time 10/24/24 11:05
Raw Sample Received by: RJ (Cool Lab)
Raw Sample Relinquished by: IT (SM)

Date/Time 10/24/24 11:30
Raw Sample Received by: IT (SM)
Raw Sample Relinquished by: RJ (Cool Lab)

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

Prep Standard - Chemical Standard Summary

Order ID : P4495

Test : Diesel Range Organics

Prepbatch ID : PB164381,

Sequence ID/Qc Batch ID: FF102524,FF102424,

Standard ID :
EP2538,EP2551,PP23454,PP23518,PP23611,PP23612,PP23613,PP23614,PP23615,PP23616,PP23617,

Chemical ID :
E2865,E3551,E3759,E3768,E3787,E3793,E3794,E3822,P11950,P11960,P13103,P13107,P13206,P13207,P13208,P13209,P13210,P13211,P13217,P13218,

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Fax : 908 789 8922

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3868	METHELENE CHLORIDE+ACETONE	EP2538	09/17/2024	03/11/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 09/17/2024

FROM 8000.00000ml of E3793 + 8000.00000ml of E3794 = Final Quantity: 1600.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2551	10/18/2024	01/03/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 10/18/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3609	20 PPM DRO SPIKE SOLUTION (RESTEK)	PP23454	06/10/2024	12/08/2024	Yogesh Patel	None	None	Ankita Jodhani 06/12/2024

FROM 1.00000ml of P11950 + 1.00000ml of P11960 + 48.00000ml of E3759 = 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	PP23518	07/15/2024	01/08/2025	Yogesh Patel	None	None	Ankita Jodhani 07/16/2024

FROM 1.00000ml of P13206 + 1.00000ml of P13207 + 1.00000ml of P13208 + 1.00000ml of P13209 + 196.00000ml of E3768 = 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)	PP23611	08/14/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 08/19/2024

FROM 1.00000ml of P13103 + 1.00000ml of P13107 + 1.00000ml of P13210 + 7.00000ml of E3787 = 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)	PP23612	08/14/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 08/19/2024

FROM 1.00000ml of P13211 + 1.00000ml of P13217 + 1.00000ml of P13218 + 7.00000ml of E3787 = Final Quantity: 10.000 ml

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Fax : 908 789 8922

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)	PP23613	08/15/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 08/19/2024

FROM 0.50000ml of E3787 + 0.50000ml of PP23611 = 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)	PP23614	08/15/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 08/19/2024

FROM 0.80000ml of E3787 + 0.20000ml of PP23611 = Final Quantity: 1.000 ml

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Fax : 908 789 8922

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)	PP23615	08/15/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 08/19/2024

FROM 0.90000ml of E3787 + 0.10000ml of PP23611 = 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)	PP23616	08/15/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 08/19/2024

FROM 0.90000ml of E3787 + 0.10000ml of PP23613 = Final Quantity: 1.000 ml

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

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3797	50 PPM DRO ICV STD (CPI)	PP23617	08/15/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 08/19/2024

FROM 0.50000ml of E3787 + 0.50000ml of PP23612 = 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	12/31/2024	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24D1962005	12/08/2024	06/08/2024 / Rajesh	05/31/2024 / Rajesh	E3759

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862022	02/13/2025	08/13/2024 / Rajesh	08/07/2024 / Rajesh	E3787

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	9005-05 / Acetone Ultra (cs/4x4L)	24E0761004	03/11/2025	09/12/2024 / Rajesh	09/11/2024 / Rajesh	E3793

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G2362009	03/17/2025	09/17/2024 / Rajesh	09/03/2024 / Rajesh	E3794

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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 #
Restek	31266 / Florida TRPH Standard	A0186840	12/10/2024	06/10/2024 / yogesh	07/11/2022 / Yogesh	P11950

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	12/10/2024	06/10/2024 / yogesh	07/11/2022 / Yogesh	P11960

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0204859	02/14/2025	08/14/2024 / yogesh	01/12/2024 / Yogesh	P13103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0204859	02/14/2025	08/14/2024 / yogesh	01/12/2024 / Yogesh	P13107

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	01/15/2025	07/15/2024 / yogesh	01/17/2024 / Ankita	P13206

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	01/15/2025	07/15/2024 / yogesh	01/17/2024 / Ankita	P13207

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	01/15/2025	07/15/2024 / yogesh	01/17/2024 / Ankita	P13208

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	01/15/2025	07/15/2024 / yogesh	01/17/2024 / Ankita	P13209

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	02/14/2025	08/14/2024 / yogesh	01/17/2024 / Ankita	P13210

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	02/14/2025	08/14/2024 / yogesh	01/17/2024 / Ankita	P13211

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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	P13217

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

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.

RG-02-01, Ed. 3

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.: 24D1962005
Manufactured Date: 2024-03-16
Expiration Date: 2025-06-15
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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	8
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	0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24C16563

E 3759

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

PO: PO1-8886 PRODUCT CODE: SHIP DATE: 6/21/2024

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

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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

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

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24G0862022
Manufactured Date: 2024-06-05
Expiration Date: 2025-09-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	4
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	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24F05012

E 3787

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004
Manufactured Date: 2024-05-02
Retest Date: 2029-05-01
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.5 %	99.8 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.5	0.1
Water (H_2O)	≤ 0.5 %	0.1 %
Solubility in H_2O	Passes Test	Passes Test
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.05 ppm
Trace Impurities - Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities - Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 25.0 ppb	3.6 ppb
Trace Impurities - Chromium (Cr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Trace Impurities - Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Recd. by RP on 9/11/24

E3793

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	7.9 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater (Rion KS42AF)	≤ 100 par/ml	8 par/ml
Particle Count - 1.0 µm and greater (Rion KS42AF)	≤ 8 par/ml	2 par/ml

>>> Continued on page 3 >>>

Acetone
CMOS

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result

For Microelectronic Use

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

Michelle Bales
Sr. Manager, Quality Assurance

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

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 2412662006
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

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

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)

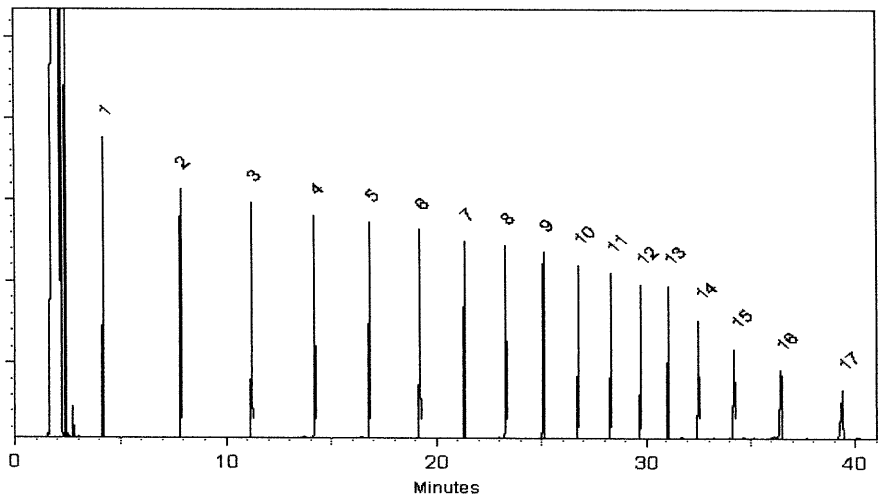
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

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)

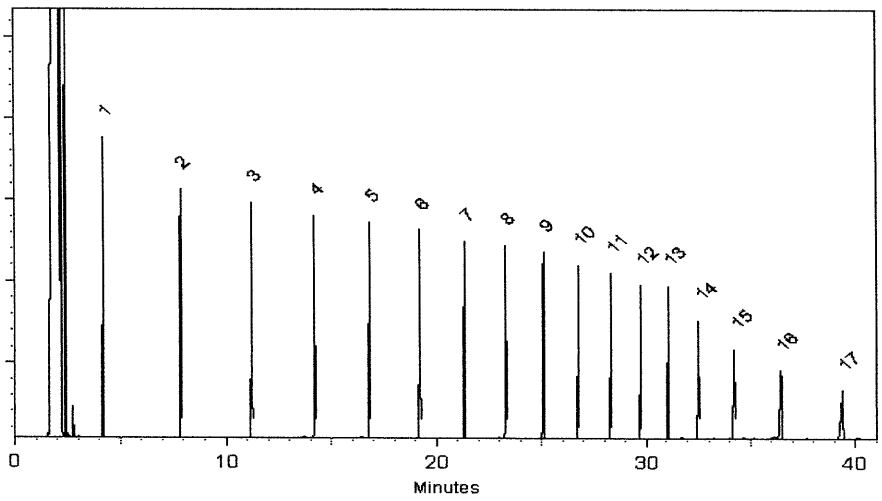
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

RESTEK

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

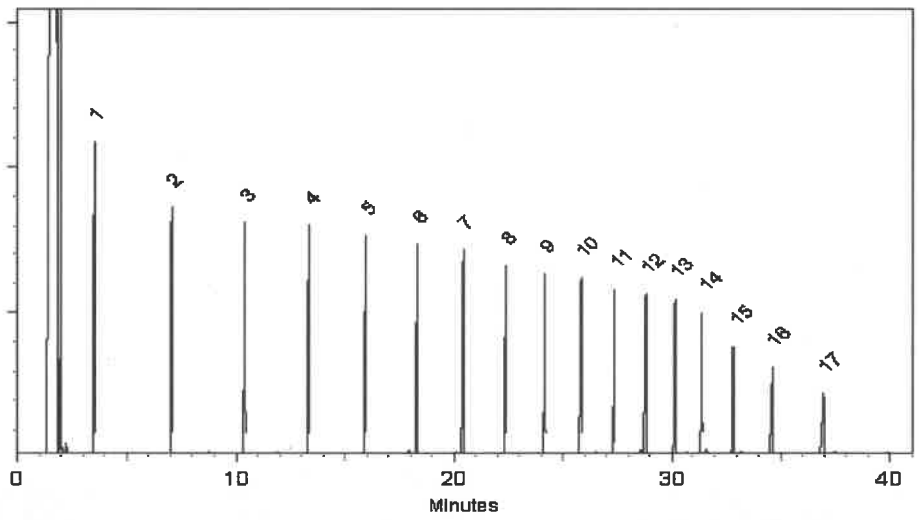
Inj. Temp:
250°C

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

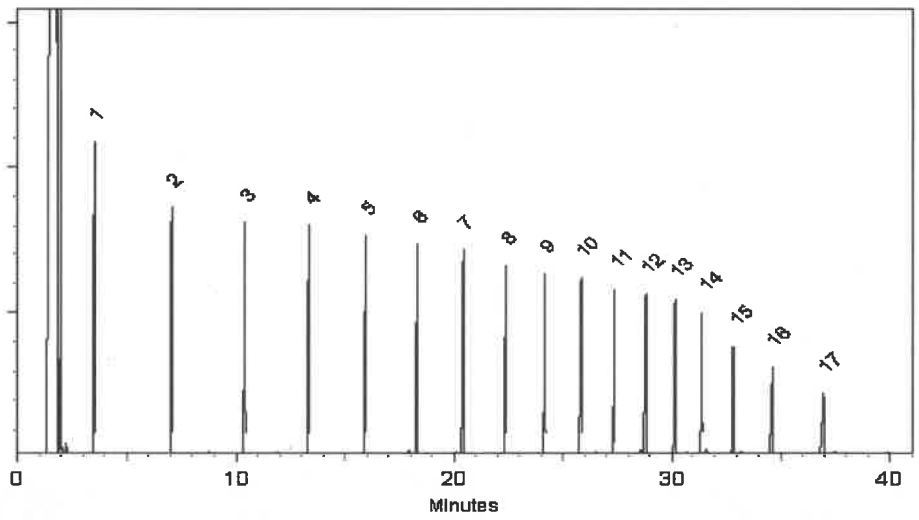
Inj. Temp:
250°C

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

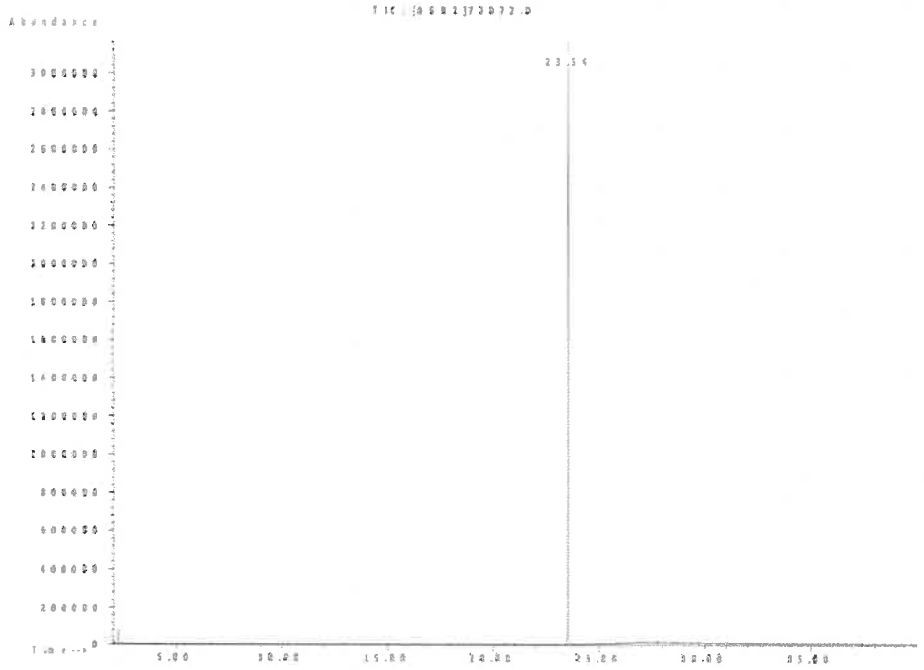
Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

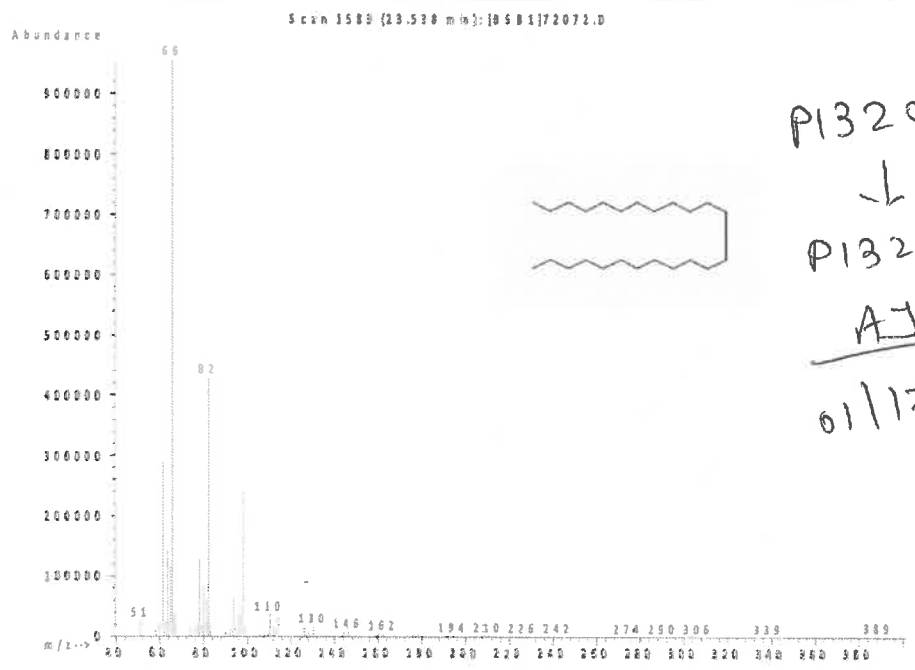
Weight(s) shown below were combined and diluted to (mL): 200.0 ± 0.058 Flask Uncertainty; 5E-05 Balance Uncertainty

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
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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 certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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

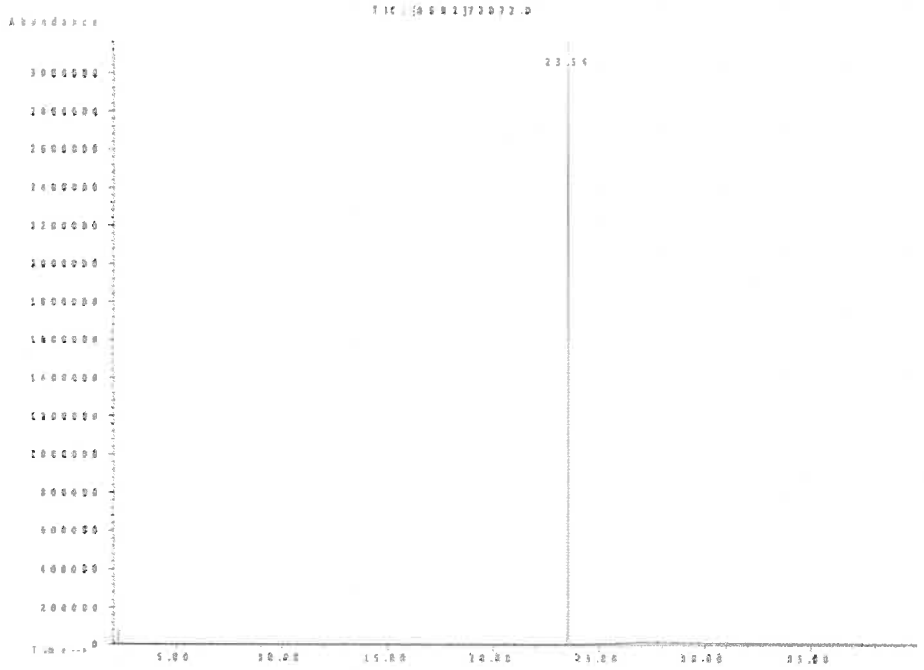
Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

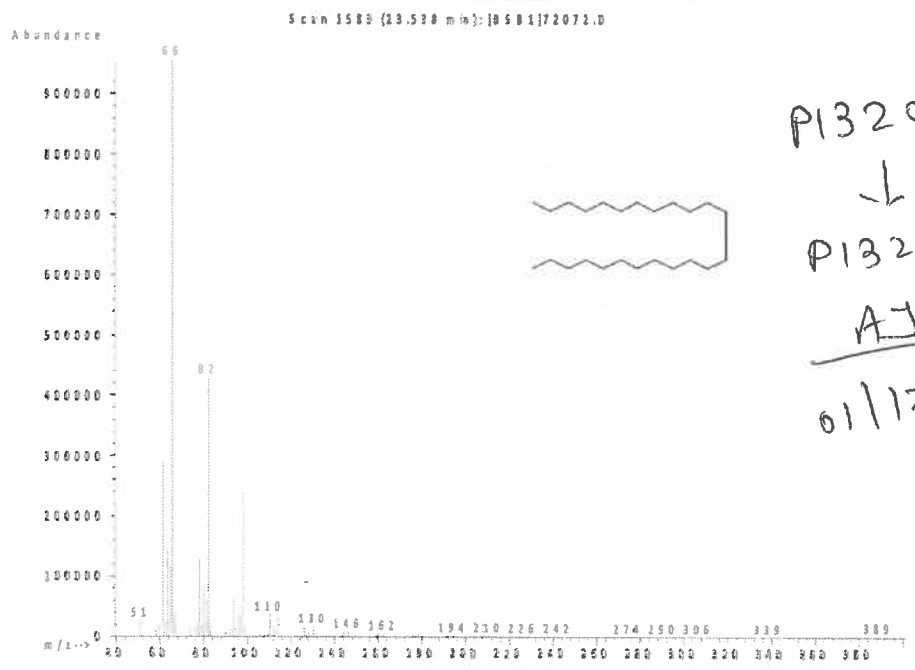
Weight(s) shown below were combined and diluted to (mL): 200.0 ± 0.058 Flask Uncertainty; 5E-05 Balance Uncertainty

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.





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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 certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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CERTIFIED WEIGHT REPORT

Part Number: 72072
Lot Number: 101122
Description: n-Tetracosane-d50

Solvent(s): Methylene chloride **Lot#** 105345

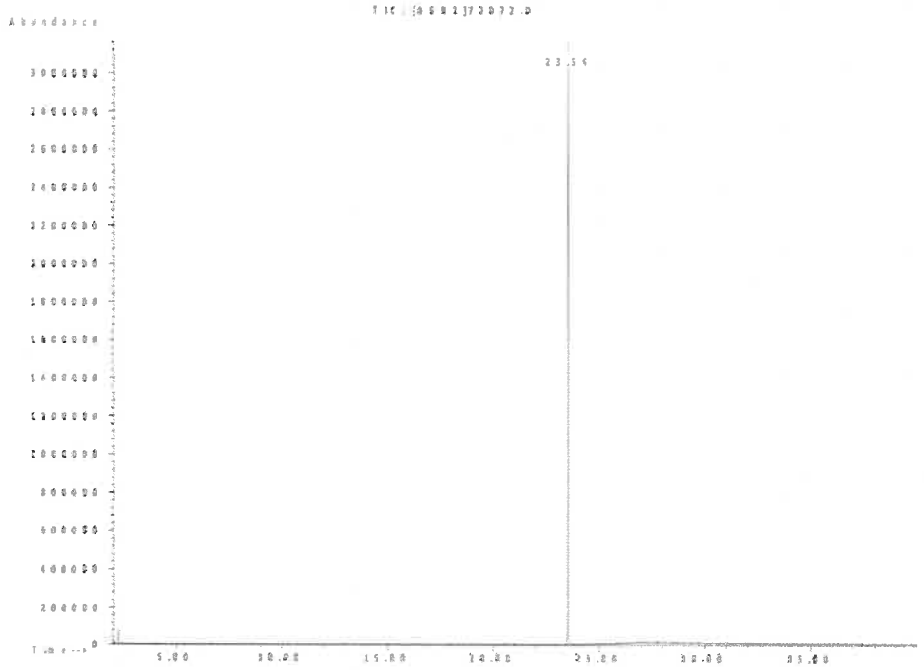
Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

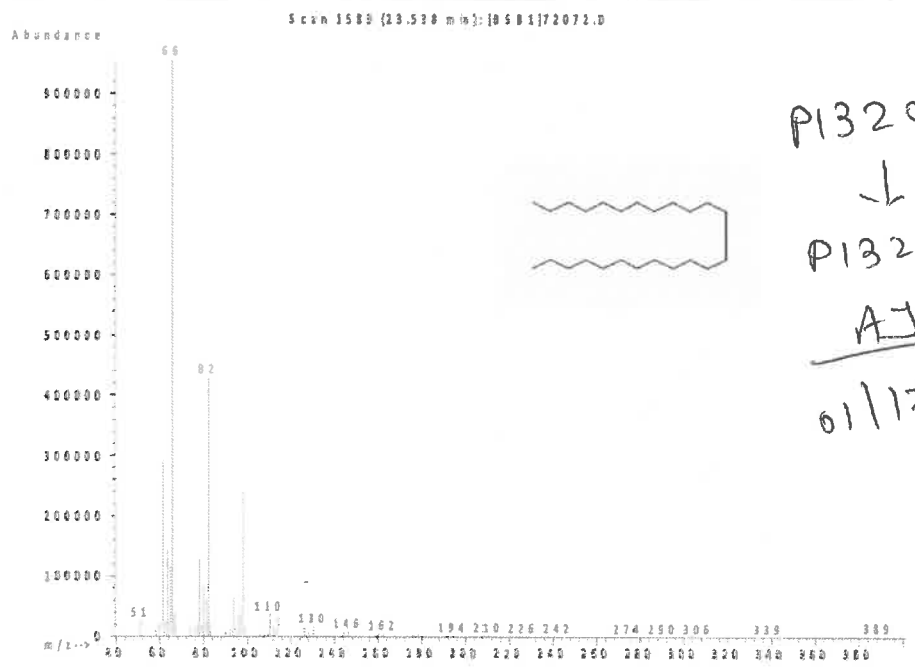
Weight(s) shown below were combined and diluted to (mL): 200.0 ± 0.058 Flask Uncertainty; 5E-05 Balance Uncertainty

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.





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P13214
AJ
01/17/24

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CERTIFIED WEIGHT REPORT

Part Number: 72072
Lot Number: 101122
Description: n-Tetracosane-d50

Solvent(s): Methylene chloride **Lot#** 105345

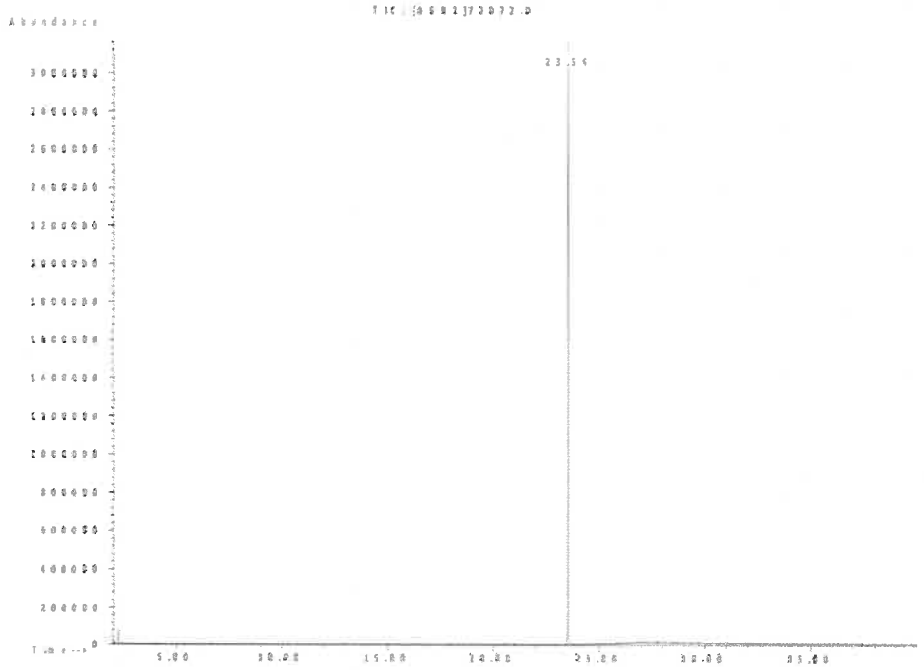
Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

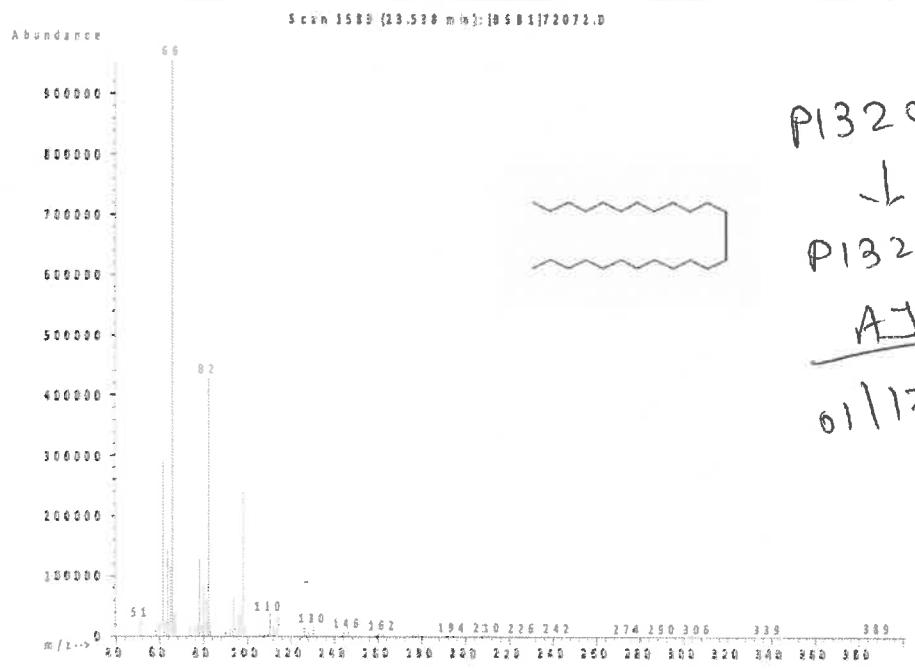
Weight(s) shown below were combined and diluted to (mL): 200.0 ± 0.058 Flask Uncertainty; 5E-05 Balance Uncertainty

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.





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AJ
01/17/24

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CERTIFIED WEIGHT REPORT

Part Number: 72072
Lot Number: 101122
Description: n-Tetracosane-d50

Solvent(s): Methylene chloride **Lot#** 105345

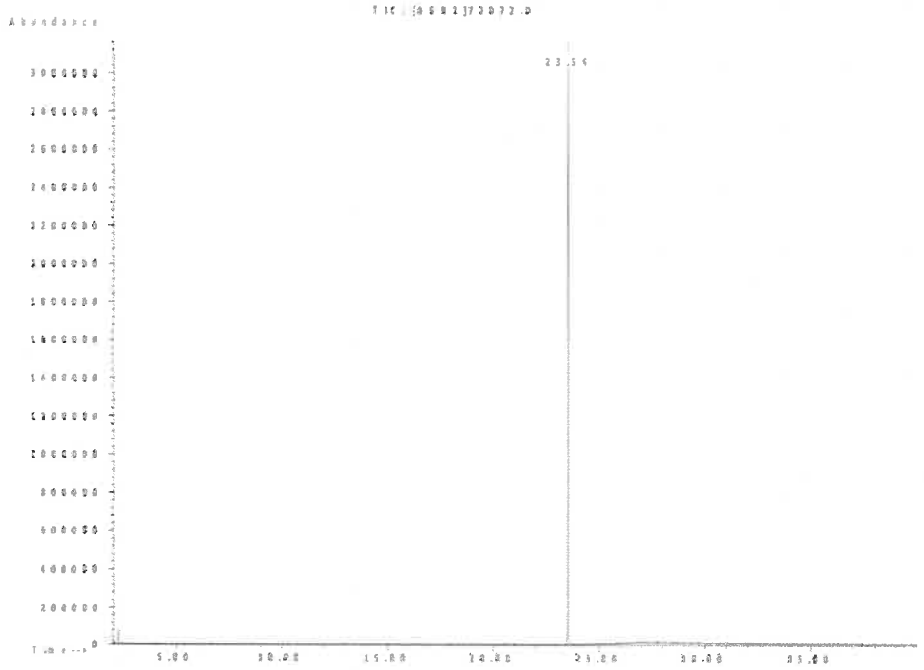
Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

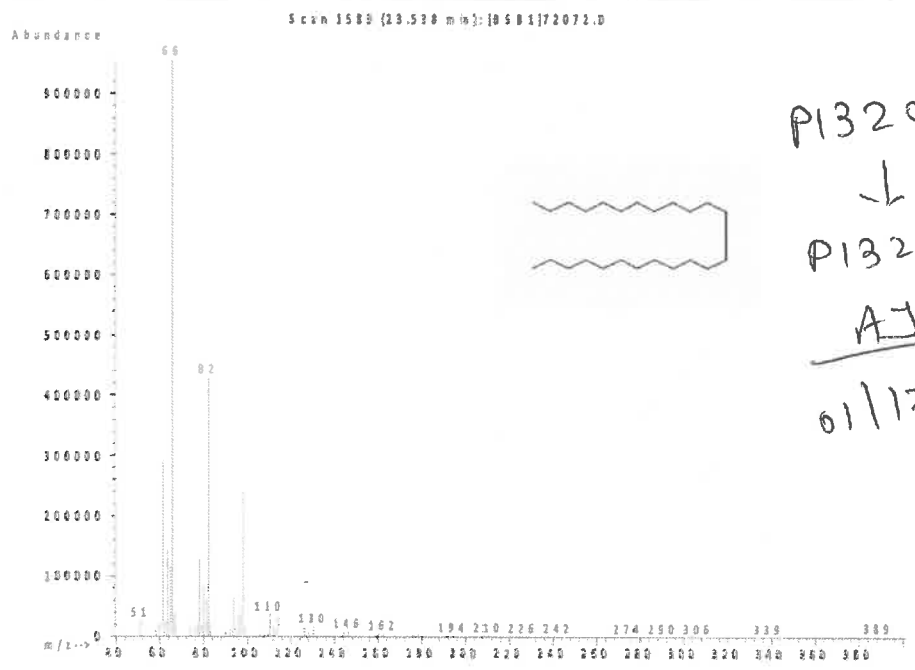
Weight(s) shown below were combined and diluted to (mL): 200.0 ± 0.058 Flask Uncertainty; 5E-05 Balance Uncertainty

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.





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01/17/24

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CERTIFIED WEIGHT REPORT

Part Number: 72072
Lot Number: 101122
Description: n-Tetracosane-d50

Solvent(s): Methylene chloride **Lot#** 105345

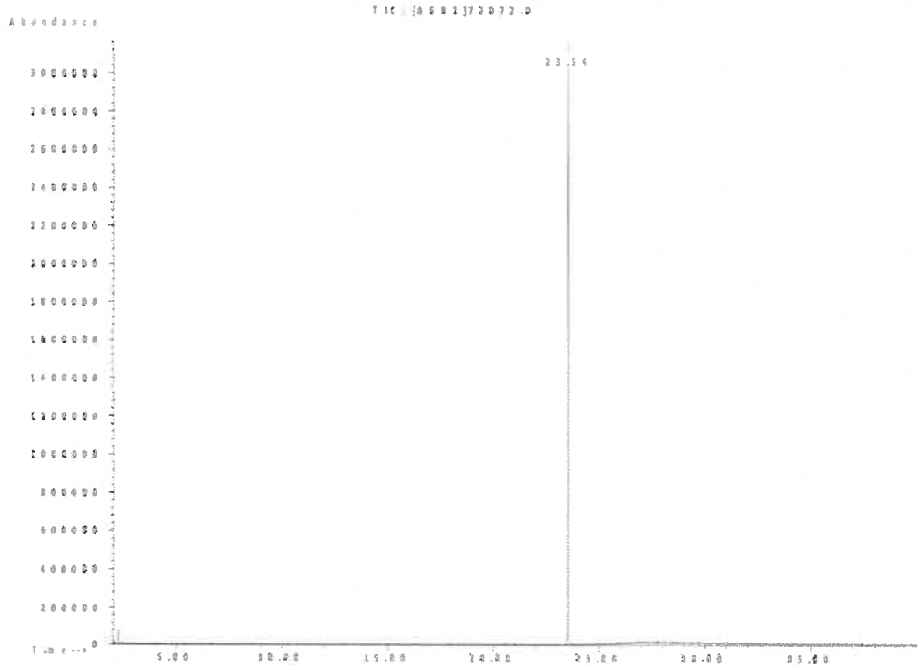
Expiration Date: 101132
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

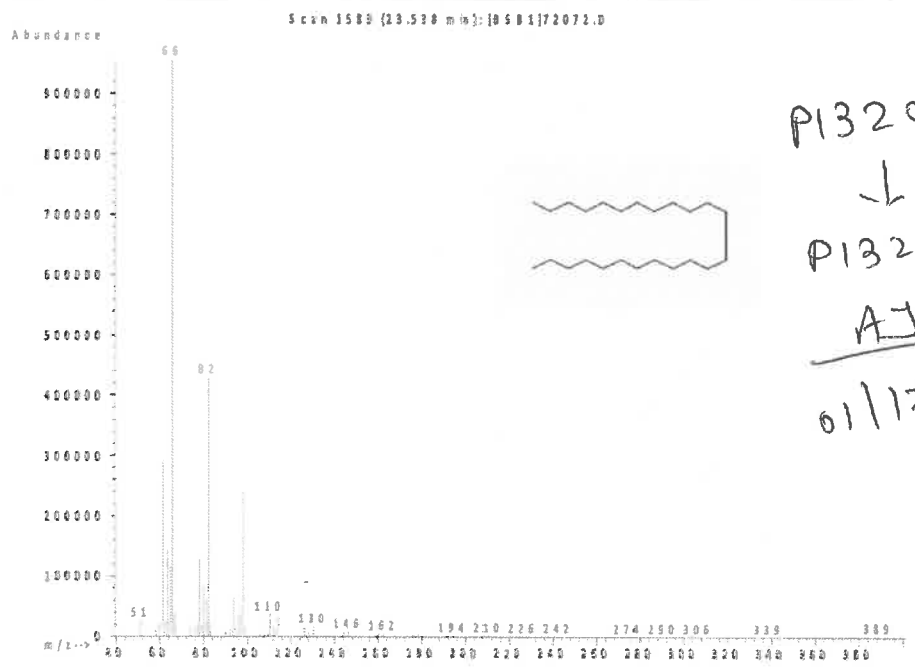
Weight(s) shown below were combined and diluted to (mL): 200.0 ± 0.058 Flask Uncertainty; 5E-05 Balance Uncertainty

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.





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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

P13215
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P13224

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.

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Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
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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

P13215
↓
P13224

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.

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014761.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 15:31
Operator : YP\AJ
Sample : P4495-14
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 25 04:36:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
PT-DIES-SOIL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.015	2214599	16.828 ug/mlm
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF102424\
Data File : FF014761.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 15:31
Operator : YP\AJ
Sample : P4495-14
Misc :
ALS Vial : 13 Sample Multiplier: 1

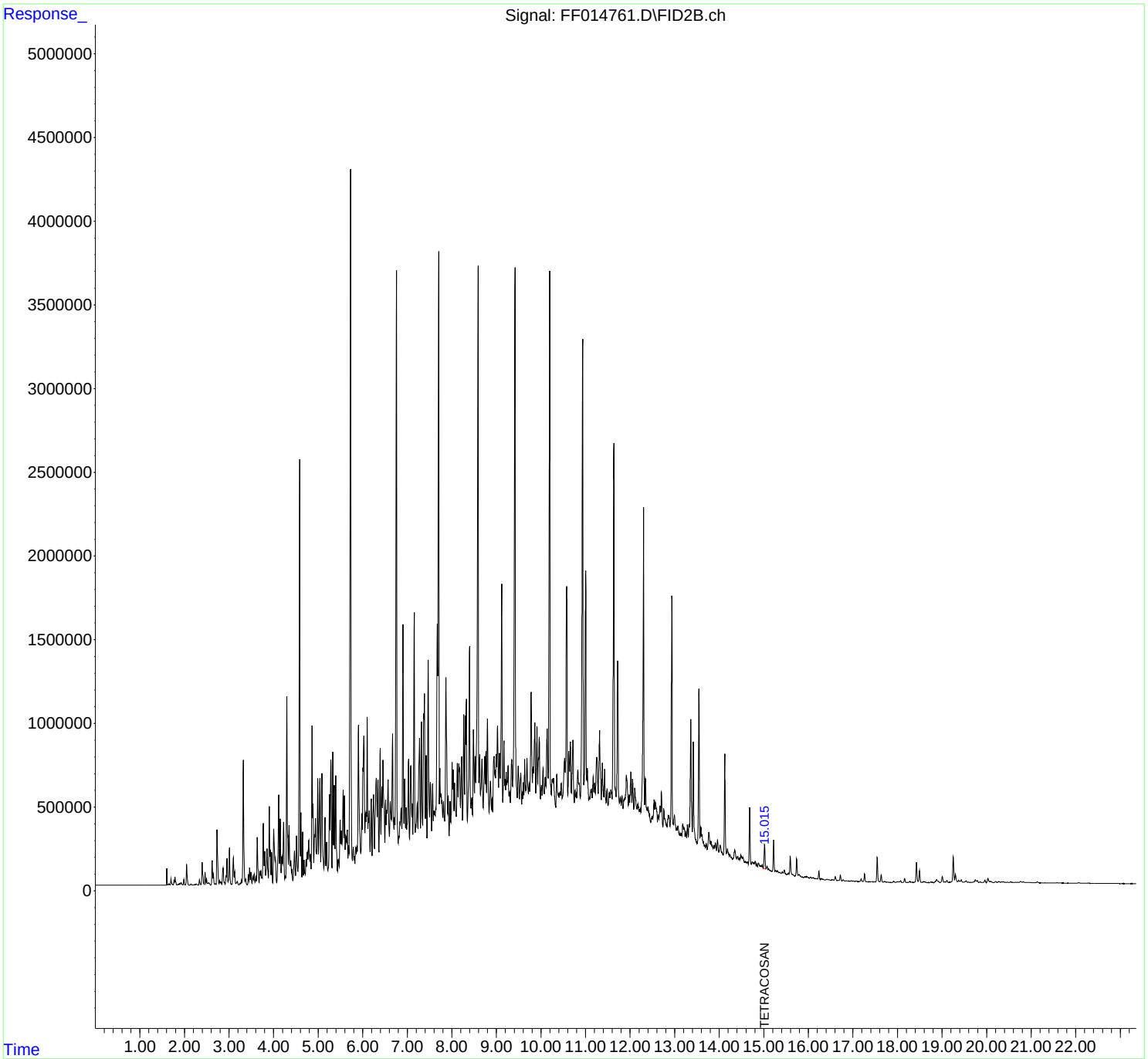
Integration File: autoint1.e
Quant Time: Oct 25 04:36:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Quant Title :
QLast Update : Tue Oct 22 08:35:55 2024
Response via : Initial Calibration
Integrator: ChemStation

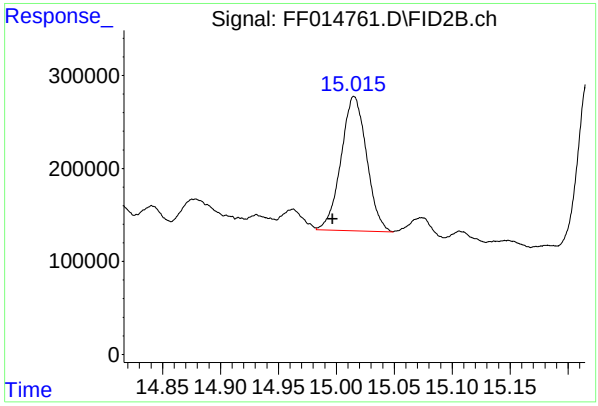
Volume Inj. : 1uL
Signal Phase : Rxi-1ms
Signal Info : 20mx0.18mmx0.18um

Instrument :
FID_F
ClientSampleId :
PT-DIES-SOIL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.015 min
Delta R.T.: 0.018 mi
Response: 2214599
Conc: 16.83 ug/m

Instrument :
FID_F
ClientSampleId :
PT-DIES-SOIL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024

Instrument :
FID_F
ClientSampleId :
PT-DIES-SOIL

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF10242
Data File : FF014761.D
Signal(s) : FID2B.ch
Acq On : 24 Oct 2024 15:31
Sample : P4495-14
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF102124.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.586	4.544	4.600	HH	2543396	30727108	37.63%	0.893%
2	4.614	4.600	4.634	HH	433101	5182535	6.35%	0.151%
3	4.652	4.634	4.670	HH	317153	3514285	4.30%	0.102%
4	4.684	4.670	4.700	HH	150296	1815332	2.22%	0.053%
5	4.703	4.700	4.712	HH	72278	536989	0.66%	0.016%
6	4.728	4.712	4.738	HH	152315	1712432	2.10%	0.050%
7	4.756	4.738	4.771	HH	196357	3362471	4.12%	0.098%
8	4.788	4.771	4.816	HH	268271	5316509	6.51%	0.154%
9	4.828	4.816	4.842	HH	185707	2380681	2.92%	0.069%
10	4.864	4.842	4.877	HH	951656	11233533	13.76%	0.326%
11	4.885	4.877	4.902	HH	486160	5070571	6.21%	0.147%
12	4.921	4.902	4.928	HH	303437	3764090	4.61%	0.109%
13	4.940	4.928	4.955	HH	398157	5116994	6.27%	0.149%
14	4.963	4.955	4.971	HH	208695	1865001	2.28%	0.054%
15	4.992	4.971	5.008	HH	636258	8461364	10.36%	0.246%
16	5.039	5.008	5.058	HH	638878	11594875	14.20%	0.337%
17	5.087	5.058	5.128	HH	667037	14273771	17.48%	0.415%
18	5.154	5.128	5.173	HH	405183	5972879	7.31%	0.174%
19	5.190	5.173	5.218	HH	256648	4448825	5.45%	0.129%
20	5.255	5.218	5.266	HH	542083	7607246	9.32%	0.221%
21	5.287	5.266	5.310	HH	749060	12499760	15.31%	0.363%
22	5.330	5.310	5.345	HH	795959	9363606	11.47%	0.272%
23	5.361	5.345	5.377	HH	597143	7687053	9.41%	0.223%
24	5.396	5.377	5.432	HH	654000	10592286	12.97%	0.308%
25	5.449	5.432	5.471	HH	151900	2937188	3.60%	0.085%
26	5.494	5.471	5.507	HH	388328	5676554	6.95%	0.165%
27	5.518	5.507	5.531	HH	325033	4125798	5.05%	0.120%
28	5.562	5.531	5.578	HH	567486	10633913	13.02%	0.309%
29	5.591	5.578	5.607	HH	534352	6701827	8.21%	0.195%
30	5.620	5.607	5.640	HH	294699	5314826	6.51%	0.154%
31	5.654	5.640	5.670	HH	330141	4751611	5.82%	0.138%
32	5.683	5.670	5.692	HH	234649	2647212	3.24%	0.077%
33	5.730	5.692	5.769	HH	4276283	62908089	77.03%	1.827%
34	5.789	5.769	5.803	HH	228147	3967451	4.86%	0.115%
35	5.811	5.803	5.825	HH	173257	1986811	2.43%	0.058%
36	5.843	5.825	5.858	HH	224918	3832233	4.69%	0.111%

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37	5.870	5.858	5.880	HH	228503	2767581	3.39%	0.080%
38	5.904	5.880	5.959	HH	953095	20810401	25	
39	5.981	5.959	5.990	HH	428351	5736259	7	
40	6.005	5.990	6.010	HH	699315	6666263	8	
41	6.028	6.010	6.049	HH	891425	15988602	19	
42	6.063	6.049	6.071	HH	430626	5042419	6	
43	6.081	6.071	6.086	HH	435801	3665781	4.49%	0.106%
44	6.102	6.086	6.117	HH	1004579	11897836	14.57%	0.346%
45	6.126	6.117	6.135	HH	398717	3995773	4.89%	0.116%
46	6.145	6.135	6.165	HH	443783	6520931	7.99%	0.189%
47	6.192	6.165	6.211	HH	515182	9032371	11.06%	0.262%
48	6.244	6.211	6.264	HH	540244	12120062	14.84%	0.352%
49	6.307	6.264	6.329	HH	639643	18631775	22.82%	0.541%
50	6.345	6.329	6.363	HH	626113	9239140	11.31%	0.268%
51	6.392	6.363	6.409	HH	814745	13058657	15.99%	0.379%
52	6.430	6.409	6.442	HH	588241	9541645	11.68%	0.277%
53	6.456	6.442	6.498	HH	746748	17363004	21.26%	0.504%
54	6.514	6.498	6.527	HH	509714	6820067	8.35%	0.198%
55	6.541	6.527	6.548	HH	449074	5382306	6.59%	0.156%
56	6.570	6.548	6.600	HH	629142	14002510	17.15%	0.407%
57	6.620	6.600	6.645	HH	498867	11376926	13.93%	0.330%
58	6.670	6.645	6.702	HH	903371	18538004	22.70%	0.539%
59	6.715	6.702	6.724	HH	404035	4952883	6.07%	0.144%
60	6.759	6.724	6.796	HH	3672968	55642042	68.14%	1.616%
61	6.837	6.796	6.844	HH	378821	8874578	10.87%	0.258%
62	6.862	6.844	6.880	HH	456742	8780556	10.75%	0.255%
63	6.905	6.880	6.927	HH	1557311	23537268	28.82%	0.684%
64	6.943	6.927	6.962	HH	634226	10367520	12.70%	0.301%
65	6.974	6.962	6.987	HH	463146	6045225	7.40%	0.176%
66	7.029	6.987	7.050	HH	752663	17384427	21.29%	0.505%
67	7.079	7.050	7.102	HH	714540	15865902	19.43%	0.461%
68	7.111	7.102	7.125	HH	487113	5712084	6.99%	0.166%
69	7.157	7.125	7.180	HH	1628865	25629252	31.38%	0.744%
70	7.192	7.180	7.196	HH	356773	3406212	4.17%	0.099%
71	7.223	7.196	7.240	HH	487797	10661244	13.06%	0.310%
72	7.276	7.240	7.298	HH	877953	21398592	26.20%	0.622%
73	7.319	7.298	7.345	HH	976467	16923419	20.72%	0.492%
74	7.371	7.345	7.378	HH	1024249	14468773	17.72%	0.420%
75	7.387	7.378	7.407	HH	1143316	14289542	17.50%	0.415%
76	7.425	7.407	7.444	HH	775429	11795736	14.44%	0.343%
77	7.471	7.444	7.501	HH	1344726	24628172	30.16%	0.715%
78	7.519	7.501	7.548	HH	615927	13972950	17.11%	0.406%
79	7.569	7.548	7.586	HH	604928	10606077	12.99%	0.308%
80	7.598	7.586	7.607	HH	444088	5399143	6.61%	0.157%
81	7.617	7.607	7.627	HH	434245	4966171	6.08%	0.144%
82	7.639	7.627	7.644	HH	459322	4612115	5.65%	0.134%
83	7.674	7.644	7.683	HH	1559890	23673527	28.99%	0.688%
84	7.708	7.683	7.722	HH	3770620	52463249	64.24%	1.524%
85	7.732	7.722	7.756	HH	695671	11935700	14.62%	0.347%
86	7.762	7.756	7.774	HH	545576	5570764	6.82%	0.162%
87	7.780	7.774	7.798	HH	509767	6816128	8.35%	0.198%
88	7.815	7.798	7.841	HH	500525	11281919	13.82%	0.328%
89	7.869	7.841	7.904	HH	1238071	28766047	35.23%	0.836%

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90	7.920	7.904	7.940	HH	535439	9352931	11.45%	0.272%
91	7.962	7.940	7.976	HH	500317	8812875	10	
92	8.008	7.976	8.020	HH	732794	13902341	17	
93	8.033	8.020	8.049	HH	688334	10566471	12	
94	8.063	8.049	8.100	HH	611455	15372131	18	
95	8.124	8.100	8.141	HH	727992	14171633	17	
96	8.157	8.141	8.168	HH	724530	10617598	13.00%	0.308%
97	8.176	8.168	8.194	HH	697504	9524933	11.66%	0.277%
98	8.220	8.194	8.241	HH	765562	16408806	20.09%	0.477%
99	8.269	8.241	8.287	HH	1019584	18640095	22.83%	0.541%
100	8.306	8.287	8.315	HH	1007413	13860713	16.97%	0.403%
101	8.326	8.315	8.349	HH	1107208	15751207	19.29%	0.458%
102	8.398	8.349	8.426	HH	1420404	33690071	41.25%	0.979%
103	8.449	8.426	8.464	HH	522666	10874744	13.32%	0.316%
104	8.486	8.464	8.509	HH	928203	18503518	22.66%	0.538%
105	8.524	8.509	8.538	HH	768306	11665664	14.29%	0.339%
106	8.591	8.538	8.607	HH	3705652	66740563	81.73%	1.939%
107	8.626	8.607	8.642	HH	779217	13937376	17.07%	0.405%
108	8.677	8.642	8.705	HH	754622	22921947	28.07%	0.666%
109	8.739	8.705	8.752	HH	769479	17834975	21.84%	0.518%
110	8.765	8.752	8.780	HH	799429	11403663	13.96%	0.331%
111	8.801	8.780	8.837	HH	991970	23445146	28.71%	0.681%
112	8.867	8.837	8.892	HH	621846	17429438	21.34%	0.506%
113	8.903	8.892	8.917	HH	518901	7445411	9.12%	0.216%
114	8.950	8.917	8.962	HH	769362	18059742	22.11%	0.525%
115	8.972	8.962	8.982	HH	689774	7807889	9.56%	0.227%
116	8.998	8.982	9.009	HH	782693	11675168	14.30%	0.339%
117	9.026	9.009	9.050	HH	950924	19391657	23.75%	0.563%
118	9.070	9.050	9.087	HH	789152	15515872	19.00%	0.451%
119	9.122	9.087	9.143	HH	1795925	34832408	42.65%	1.012%
120	9.170	9.143	9.187	HH	860010	17390636	21.30%	0.505%
121	9.196	9.187	9.207	HH	632053	7570637	9.27%	0.220%
122	9.221	9.207	9.234	HH	673719	9873346	12.09%	0.287%
123	9.263	9.234	9.283	HH	714524	18799020	23.02%	0.546%
124	9.297	9.283	9.314	HH	556376	9778255	11.97%	0.284%
125	9.343	9.314	9.363	HH	745480	18638124	22.82%	0.541%
126	9.419	9.363	9.469	HH	3687866	81663342	100.00%	2.372%
127	9.489	9.469	9.517	HH	708717	17659754	21.63%	0.513%
128	9.549	9.517	9.569	HH	668934	18390057	22.52%	0.534%
129	9.582	9.569	9.592	HH	554027	7385750	9.04%	0.215%
130	9.606	9.592	9.617	HH	613126	8657372	10.60%	0.251%
131	9.635	9.617	9.652	HH	749628	13492742	16.52%	0.392%
132	9.661	9.652	9.669	HH	583444	5877148	7.20%	0.171%
133	9.687	9.669	9.721	HH	755257	19482404	23.86%	0.566%
134	9.735	9.721	9.752	HH	605713	11050155	13.53%	0.321%
135	9.778	9.752	9.810	HH	1151907	28566147	34.98%	0.830%
136	9.824	9.810	9.833	HH	705043	9232669	11.31%	0.268%
137	9.864	9.833	9.884	HH	969475	24176153	29.60%	0.702%
138	9.910	9.884	9.928	HH	944602	19329854	23.67%	0.562%
139	9.962	9.928	9.989	HH	884330	25966669	31.80%	0.754%
140	10.010	9.989	10.027	HH	595382	12828803	15.71%	0.373%
141	10.047	10.027	10.076	HH	700090	17647492	21.61%	0.513%

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142	10.095	10.076	10.112	HH	645220	13324482	16.32%	0.387%
143	10.138	10.112	10.161	HH	929984	22222611	27	
144	10.198	10.161	10.234	HH	3668471	66026676	80	
145	10.252	10.234	10.266	HH	633924	11615014	14	
146	10.286	10.266	10.332	HH	637382	22048541	27	
147	10.355	10.332	10.391	HH	659549	19946978	24	
148	10.397	10.391	10.407	HH	541359	5347033	6.55%	0.155%
149	10.428	10.407	10.441	HH	552236	10873054	13.31%	0.316%
150	10.456	10.441	10.476	HH	608654	11958381	14.64%	0.347%
151	10.531	10.476	10.547	HH	754342	26987343	33.05%	0.784%
152	10.577	10.547	10.602	HH	1782798	37527310	45.95%	1.090%
153	10.624	10.602	10.643	HH	800935	17170205	21.03%	0.499%
154	10.661	10.643	10.682	HH	857352	17052118	20.88%	0.495%
155	10.717	10.682	10.747	HH	867127	26044626	31.89%	0.757%
156	10.766	10.747	10.781	HH	566440	10797793	13.22%	0.314%
157	10.793	10.781	10.803	HH	548754	7082632	8.67%	0.206%
158	10.828	10.803	10.850	HH	685977	17634734	21.59%	0.512%
159	10.856	10.850	10.882	HH	607527	10817508	13.25%	0.314%
160	10.937	10.882	10.962	HH	3260709	65539511	80.26%	1.904%
161	11.003	10.962	11.026	HH	1876750	40929241	50.12%	1.189%
162	11.041	11.026	11.074	HH	697283	17686391	21.66%	0.514%
163	11.091	11.074	11.097	HH	521972	7235029	8.86%	0.210%
164	11.131	11.097	11.147	HH	571918	16495551	20.20%	0.479%
165	11.171	11.147	11.190	HH	647133	14909932	18.26%	0.433%
166	11.205	11.190	11.221	HH	609273	10851390	13.29%	0.315%
167	11.252	11.221	11.283	HH	761488	24401360	29.88%	0.709%
168	11.314	11.283	11.356	HH	924519	30782076	37.69%	0.894%
169	11.376	11.356	11.410	HH	727764	19572312	23.97%	0.569%
170	11.427	11.410	11.463	HH	691044	18274912	22.38%	0.531%
171	11.483	11.463	11.507	HH	572857	14027832	17.18%	0.407%
172	11.534	11.507	11.550	HH	552971	13238307	16.21%	0.385%
173	11.568	11.550	11.596	HH	569110	15079059	18.46%	0.438%
174	11.637	11.596	11.687	HH	2635917	58796029	72.00%	1.708%
175	11.721	11.687	11.761	HH	1338747	34341635	42.05%	0.998%
176	11.779	11.761	11.801	HH	525059	12031561	14.73%	0.350%
177	11.816	11.801	11.841	HH	531641	11986516	14.68%	0.348%
178	11.917	11.841	11.961	HH	650288	39364858	48.20%	1.143%
179	11.978	11.961	11.991	HH	538555	9212401	11.28%	0.268%
180	12.016	11.991	12.040	HH	674786	17436169	21.35%	0.506%
181	12.057	12.040	12.084	HH	632874	14274190	17.48%	0.415%
182	12.106	12.084	12.150	HH	579854	19899872	24.37%	0.578%
183	12.174	12.150	12.206	HH	484702	15562212	19.06%	0.452%
184	12.222	12.206	12.242	HH	453244	9597261	11.75%	0.279%
185	12.303	12.242	12.325	HH	2250928	48970263	59.97%	1.423%
186	12.342	12.325	12.387	HH	634816	19085142	23.37%	0.554%
187	12.401	12.387	12.462	HH	464977	19161188	23.46%	0.557%
188	12.490	12.462	12.508	HH	412319	10937472	13.39%	0.318%
189	12.538	12.508	12.550	HH	507551	11235092	13.76%	0.326%
190	12.563	12.550	12.613	HH	495420	17194424	21.06%	0.499%
191	12.628	12.613	12.645	HH	420474	7784844	9.53%	0.226%
192	12.669	12.645	12.685	HH	472015	10506435	12.87%	0.305%
193	12.702	12.685	12.735	HH	555497	13613503	16.67%	0.395%
194	12.755	12.735	12.797	HH	456937	15075720	18.46%	0.438%

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195	12.803	12.797	12.823	HH	371197	5480628	6.71%	0.159%
196	12.853	12.823	12.859	HH	412149	8408883	10	
197	12.867	12.859	12.896	HH	414720	8512611	10	
198	12.936	12.896	12.969	HH	1724160	33519210	41	
199	12.992	12.969	13.037	HH	418449	15255072	18	
200	13.045	13.037	13.059	HH	338188	4383032	5	
201	13.072	13.059	13.129	HH	351638	13412732	16.42%	0.390%
202	13.146	13.129	13.159	HH	309092	5317979	6.51%	0.154%
203	13.181	13.159	13.197	HH	363771	7861102	9.63%	0.228%
204	13.213	13.197	13.235	HH	340719	7347759	9.00%	0.213%
205	13.250	13.235	13.266	HH	317969	5532181	6.77%	0.161%
206	13.286	13.266	13.305	HH	359454	7541653	9.24%	0.219%
207	13.323	13.305	13.332	HH	361823	5466549	6.69%	0.159%
208	13.359	13.332	13.393	HH	989319	21406783	26.21%	0.622%
209	13.417	13.393	13.501	HH	854406	25452607	31.17%	0.739%
210	13.544	13.501	13.568	HH	1171873	21907705	26.83%	0.636%
211	13.589	13.568	13.604	HH	345147	6848026	8.39%	0.199%
212	13.613	13.604	13.635	HH	301412	5157317	6.32%	0.150%
213	13.644	13.635	13.663	HH	258465	4276129	5.24%	0.124%
214	13.676	13.663	13.691	HH	239249	3875267	4.75%	0.113%
215	13.707	13.691	13.729	HH	247748	5291880	6.48%	0.154%
216	13.764	13.729	13.802	HH	313577	11592198	14.20%	0.337%
217	13.814	13.802	13.862	HH	261313	8645153	10.59%	0.251%
218	13.882	13.862	13.895	HH	236832	4574670	5.60%	0.133%
219	13.913	13.895	13.939	HH	249104	6051789	7.41%	0.176%
220	13.960	13.939	13.996	HH	271374	7791566	9.54%	0.226%
221	14.019	13.996	14.084	HH	238053	10998753	13.47%	0.319%
222	14.124	14.084	14.161	HH	784753	16339025	20.01%	0.475%
223	14.184	14.161	14.226	HH	216300	7578293	9.28%	0.220%
224	14.242	14.226	14.261	HH	180016	3674977	4.50%	0.107%
225	14.269	14.261	14.291	HH	166206	2847647	3.49%	0.083%
226	14.301	14.291	14.305	HH	157390	1316112	1.61%	0.038%
227	14.348	14.305	14.376	HH	207846	7731780	9.47%	0.225%
228	14.381	14.376	14.398	HH	164421	2141141	2.62%	0.062%
229	14.413	14.398	14.438	HH	171660	3904446	4.78%	0.113%
230	14.451	14.438	14.466	HH	161539	2626658	3.22%	0.076%
231	14.481	14.466	14.519	HH	181726	5339984	6.54%	0.155%
232	14.532	14.519	14.565	HH	164465	4241645	5.19%	0.123%
233	14.581	14.565	14.616	HH	139660	4172363	5.11%	0.121%
234	14.633	14.616	14.652	HH	139902	2903508	3.56%	0.084%
235	14.681	14.652	14.717	HH	464746	9271029	11.35%	0.269%
236	14.739	14.717	14.761	HH	139545	3502934	4.29%	0.102%
237	14.774	14.761	14.789	HH	134449	2232152	2.73%	0.065%
238	14.805	14.789	14.826	HH	142795	2897159	3.55%	0.084%
239	14.841	14.826	14.857	HH	125350	2235752	2.74%	0.065%
240	14.878	14.857	14.922	HH	132214	4637854	5.68%	0.135%
241	14.931	14.922	14.949	HH	115822	1860282	2.28%	0.054%
242	14.962	14.949	14.983	HH	121708	2319398	2.84%	0.067%
243	15.015	14.983	15.049	HH	242805	6099485	7.47%	0.177%
244	15.074	15.049	15.094	HH	112386	2752511	3.37%	0.080%
245	15.107	15.094	15.129	HH	98084	1980924	2.43%	0.058%
246	15.148	15.129	15.168	HH	87828	1992377	2.44%	0.058%

Instrument :
FID_F
ClientSampleId :
PT-DIES-SOIL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/25/2024
Supervised By :Ankita Jodhani 10/25/2024

rteres

247	15.182	15.168	15.190	HH	82747	1075211	1.32%	0.031%
248	15.219	15.190	15.246	HH	269150	5110784	6	
249	15.262	15.246	15.287	HH	87884	2044368	2	
250	15.299	15.287	15.341	HH	86136	2591583	3	
251	15.351	15.341	15.359	HH	75092	795106	0	
252	15.363	15.359	15.381	HH	75580	968664	1	
253	15.407	15.381	15.437	HH	77725	2468626	3.02%	0.072%
254	15.461	15.437	15.483	HH	89417	2179589	2.67%	0.063%
255	15.487	15.483	15.515	HH	68099	1288635	1.58%	0.037%
256	15.551	15.515	15.567	HH	73032	2110715	2.58%	0.061%
257	15.592	15.567	15.634	HH	170521	4004830	4.90%	0.116%
258	15.639	15.634	15.650	HH	63706	603322	0.74%	0.018%
259	15.655	15.650	15.701	HH	63189	1749980	2.14%	0.051%
260	15.735	15.701	15.767	HH	155866	3503712	4.29%	0.102%
261	15.790	15.767	15.812	HH	64311	1609610	1.97%	0.047%
262	15.817	15.812	15.847	HH	55340	1063606	1.30%	0.031%
263	15.856	15.847	15.889	HH	48555	1187761	1.45%	0.035%
264	15.920	15.889	15.944	HH	49620	1556691	1.91%	0.045%
265	15.964	15.944	16.017	HH	51541	2056949	2.52%	0.060%
266	16.050	16.017	16.080	HH	47432	1636899	2.00%	0.048%
267	16.085	16.080	16.088	HH	40899	188153	0.23%	0.005%
268	16.106	16.088	16.140	HH	45222	1300705	1.59%	0.038%
269	16.163	16.140	16.201	HH	38949	1386071	1.70%	0.040%
270	16.235	16.201	16.266	HH	83522	1995443	2.44%	0.058%
271	16.273	16.266	16.279	HH	35488	268298	0.33%	0.008%
272	16.296	16.279	16.312	HH	38310	741879	0.91%	0.022%
273	16.326	16.312	16.379	HH	34464	1283501	1.57%	0.037%
274	16.411	16.379	16.451	HH	34715	1405765	1.72%	0.041%
275	16.457	16.451	16.504	HH	32177	972616	1.19%	0.028%
276	16.526	16.504	16.532	HH	30964	519684	0.64%	0.015%
277	16.542	16.532	16.572	HH	31643	731545	0.90%	0.021%
278	16.602	16.572	16.645	HH	50604	1549803	1.90%	0.045%
279	16.664	16.645	16.681	HH	27772	583978	0.72%	0.017%
280	16.717	16.681	16.755	HH	59965	1619359	1.98%	0.047%
281	16.780	16.755	16.827	HH	31716	1180491	1.45%	0.034%
282	16.846	16.827	16.862	HH	26214	518733	0.64%	0.015%
283	16.877	16.862	16.884	HH	24957	325550	0.40%	0.009%
284	16.885	16.884	16.923	HH	24765	555870	0.68%	0.016%
285	16.962	16.923	17.002	HH	26277	1141820	1.40%	0.033%
286	17.016	17.002	17.040	HH	24499	531510	0.65%	0.015%
287	17.076	17.040	17.122	HH	24906	1104772	1.35%	0.032%
288	17.183	17.122	17.222	HH	36811	1496602	1.83%	0.043%
289	17.260	17.222	17.301	HHA	66857	1596230	1.95%	0.046%

Sum of corrected areas: 3442503165

FF102124.M Sat Oct 26 03:53:58 2024

SHIPPING DOCUMENTS

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Packing List

Date	Order #
10/21/2024	318989

6390 Joyce Dr., #100
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Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

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284 Sheffield St., #1
Mountainside, NJ 07092
USA

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240903-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-MET-SOIL	SOIL/HW Trace Metals	HW1024	7098-04
1	1	0	PT-CR6-SOIL	SOIL/HW Hexavalent Chromium ✓	HW1024	7098-05D
1	1	0	PT-CN-SOIL	SOIL/HW Cyanide	HW1024	7098-06
1	1	0	PT-CORR-SOIL	SOIL/HW Corrosivity/pH ✓	HW1024	7098-11
1	1	0	PT-FP-SOIL	SOIL/HW Flash Point	HW1024	7098-10
1	1	0	PT-AN-SOIL	SOIL/HW Anions ✓	HW1024	7098-08
1	1	0	PT-NUT-SOIL	SOIL/HW Nutrients ✓	HW1024	7098-09B
1	1	0	PT-SOL-SOIL	SOIL/HW Solids	HW1024	7098-31
1	1	0	PT-NO2-SOIL	SOIL/HW Nitrite as N	HW1024	7098-71
1	1	0	PT-GAS-SOIL	SOIL/HW Gasoline	HW1024	7098-96
1	1	0	PT-DIES-SOIL	SOIL/HW Diesel in Soil	HW1024	7098-100
1	1	0	PT-OGR-SOIL	SOIL/HW Oil and Grease ✓	HW1024	7098-94
1	1	0	PT-VOA-SOIL	SOIL/HW Volatiles	HW1024	7098-12
1	1	0	PT-BNA-SOIL	SOIL/HW BNAs	HW1024	7098-13
1	1	0	PT-PEST-SOIL	SOIL/HW Pesticides	HW1024	7098-14
1	1	0	PT-CHLR-SOIL	SOIL/HW Chlordane	HW1024	7098-15
1	1	0	PT-TXP-SOIL	SOIL/HW Toxaphene	HW1024	7098-16
1	1	0	PT-PCB-SOIL	SOIL/HW PCBs	HW1024	7098-17
1	1	0	PT-PCBO-SOIL	SOIL/HW PCBs in Oil	HW1024	7098-88
1	1	0	PT-HERB-SOIL	SOIL/HW Herbicides	HW1024	7098-18
1	1	0	PT-PAH-SOIL	SOIL/HW PAHs	HW1024	7098-22
1	1	0	PT-TRIAZINE-SOIL	SOIL/HW Triazine Pesticides	HW1024	7098-106

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10/21/2024	318989

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Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-NJEPH-SOIL	NJ EPH in SOIL ✓✓	HW1024	7098-105

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