

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 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

LAB CHRONICLE

OrderID: P4839
Client: ENTACT
Contact: Wyatt Seel

OrderDate: 11/13/2024 2:21:00 PM
Project: North Point
Location: L31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4839-01	EX-9-TPH-9	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
P4839-02	EX-9-TPH-10	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
P4839-03	EX-9-TPH-11	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/18/24	
P4839-04	EX-9-TPH-12	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/15/24	
			Gasoline Range Organics	8015D			11/15/24	
P4839-05	EX-9-TPH-13	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
P4839-06	EX-9-TPH-14	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/18/24	
P4839-07	EX-9-TPH-15	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
P4839-08	EX-9-TPH-16	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/15/24	
			Gasoline Range Organics	8015D			11/15/24	
P4839-09	EX-9-TPH-17	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	

LAB CHRONICLE

P4839-10	EX-9-TPH-18	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/16/24	
P4839-11	EX-9-TPH-19	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
P4839-12	EX-9-TPH-20	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/16/24	
			Gasoline Range Organics	8015D			11/15/24	
P4839-13	EX-9-TPH-21	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
P4839-14	EX-10-TPH-1	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/16/24	
P4839-15	EX-10-TPH-2	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
P4839-16	EX-10-TPH-3	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/16/24	
P4839-17	EX-4-TPH-1	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
P4839-18	EX-4-TPH-2	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/16/24	
			Gasoline Range Organics	8015D			11/15/24	
P4839-19	EX-4-TPH-3	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/16/24	
			Gasoline Range Organics	8015D			11/15/24	
P4839-20	EX-4-TPH-4	SOIL			11/13/24			11/13/24
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
P4839-21	EX-4-TPH-5	SOIL			11/13/24			11/13/24

LAB CHRONICLE

P4839-22	EX-4-TPH-6	SOIL	Diesel Range Organics	8015D		11/16/24	11/18/24	11/13/24
			Gasoline Range Organics	8015D			11/15/24	
			Diesel Range Organics	8015D		11/16/24	11/18/24	



QC SUMMARY

SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: ENTACT
Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG No.: P4839

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF015077.D	91				0
PIBLK-FF015082.D	96				0
PIBLK-FF015089.D	89				0
PIBLK-FG014800.D	89				0
PIBLK-FG014814.D	89				0
PIBLK-FG014817.D	91				0
PIBLK-FG014832.D	94				0
PIBLK-FG014836.D	95				0
PIBLK-FG014839.D	98				0
PIBLK-FG014847.D	99				0
PIBLK-FG014858.D	88				0
EX-9-TPH-9	59				0
EX-9-TPH-10	68				0
EX-9-TPH-11	61				0
EX-9-TPH-12	60				0
EX-9-TPH-13	68				0
EX-9-TPH-14	0 *				1
EX-9-TPH-15	53				0
EX-9-TPH-16	59				0
EX-9-TPH-17	66				0
EX-9-TPH-18	76				0
EX-9-TPH-18MS	51				0
EX-9-TPH-18MSD	51				0
EX-9-TPH-19	98				0
EX-9-TPH-20	69				0
EX-9-TPH-21	67				0
EX-10-TPH-1	51				0
EX-10-TPH-2	75				0
EX-10-TPH-3	78				0
EX-4-TPH-1	62				0
EX-4-TPH-2	63				0
EX-4-TPH-3	60				0
EX-4-TPH-4	51				0
EX-4-TPH-5	0 *				1
EX-4-TPH-6	81				0
EX-4-TPH-6MS	80				0
EX-4-TPH-6MSD	82				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



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

SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: ENTACT

Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG No.: P4839

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PB164995BL	84				0
PB164995BS	89				0
PB165028BL	83				0
PB165028BS	90				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

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT
Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839
Client SampleID : EX-4-TPH-6MS **Datafile:** FF015086.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7436	4780	8038	44%	*	68-131

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT
Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839
Client SampleID : EX-4-TPH-6MSD **Datafile:** FF015087.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7431	4780	8326	48%	*	68-131

MS/MSD % Recovery RPD : 8.5

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT
Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839
Client SampleID : EX-9-TPH-18MS **Datafile:** FG014821.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	8430	4780	12963	97%		68-131

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT
Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839
Client SampleID : EX-9-TPH-18MSD **Datafile:** FG014822.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	8416	4780	12923	97%		68-131

MS/MSD % Recovery RPD : 0.4

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

Lab Name: Chemtech **Client:** ENTACT
Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839
Matrix Spike - EPA Sample No : PB165028BS **Datafile:** FF015085.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
DRO	6662	0	8340	125	68-131

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

Lab Name: Chemtech **Client:** ENTACT
Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839
Matrix Spike - EPA Sample No : PB164995BS **Datafile:** FG014804.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
DRO	6664	0	8407	126	68-131

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164995BL

Lab Name: CHEMTECH

Contract: ENTA05

Lab Code: CHEM Case No.: P4839

SAS No.: P4839 SDG NO.: P4839

Lab File ID: FG014803.D

Lab Sample ID: PB164995BL

Instrument ID: FG

Date Extracted: 11/15/2024

Matrix: (soil/water) Soil

Date Analyzed: 11/15/24

Level: (low/med) low

Time Analyzed: 17:04

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164995BS	PB164995BS	FG014804.D	11/15/24
EX-9-TPH-12	P4839-04	FG014807.D	11/15/24
EX-9-TPH-16	P4839-08	FG014811.D	11/15/24
EX-9-TPH-18	P4839-10	FG014820.D	11/16/24
EX-9-TPH-18MS	P4839-10MS	FG014821.D	11/16/24
EX-9-TPH-18MSD	P4839-10MSD	FG014822.D	11/16/24
EX-10-TPH-1	P4839-14	FG014825.D	11/16/24
EX-9-TPH-20	P4839-12	FG014827.D	11/16/24
EX-10-TPH-3	P4839-16	FG014829.D	11/16/24
EX-4-TPH-2	P4839-18	FG014834.D	11/16/24
EX-4-TPH-3	P4839-19	FG014835.D	11/16/24
EX-9-TPH-9	P4839-01	FG014842.D	11/18/24
EX-10-TPH-2	P4839-15	FG014843.D	11/18/24
EX-9-TPH-19	P4839-11	FG014844.D	11/18/24
EX-9-TPH-21	P4839-13	FG014845.D	11/18/24
EX-9-TPH-10	P4839-02	FG014846.D	11/18/24
EX-9-TPH-11	P4839-03	FG014849.D	11/18/24
EX-9-TPH-13	P4839-05	FG014850.D	11/18/24
EX-9-TPH-14	P4839-06	FG014851.D	11/18/24
EX-9-TPH-15	P4839-07	FG014852.D	11/18/24
EX-9-TPH-17	P4839-09	FG014853.D	11/18/24
EX-4-TPH-1	P4839-17	FG014856.D	11/18/24
EX-4-TPH-4	P4839-20	FG014857.D	11/18/24

COMMENTS: _____

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165028BL

Lab Name: CHEMTECH

Contract: ENTA05

Lab Code: CHEM Case No.: P4839

SAS No.: P4839 SDG NO.: P4839

Lab File ID: FF015084.D

Lab Sample ID: PB165028BL

Instrument ID: FF

Date Extracted: 11/18/2024

Matrix: (soil/water) Soil

Date Analyzed: 11/18/24

Level: (low/med) low

Time Analyzed: 14:22

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
EX-4-TPH-6	P4839-22	FF015081.D	11/18/24
PB165028BS	PB165028BS	FF015085.D	11/18/24
EX-4-TPH-6MS	P4839-22MS	FF015086.D	11/18/24
EX-4-TPH-6MSD	P4839-22MSD	FF015087.D	11/18/24
EX-4-TPH-5	P4839-21	FF015088.D	11/18/24

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-9		SDG No.:	P4839	
Lab Sample ID:	P4839-01		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	85.1	Decanted:
Sample Wt/Vol:	30.06	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	Diesel Range Organics	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014842.D	20	11/14/24 13:15	11/18/24 10:28	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	437000		4340	39100	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	0.59		37 - 130	59%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014842.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 10:28
Operator : YP\AJ
Sample : P4839-01 20X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: autoint1.e
Quant Time: Nov 19 01:30:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.040	65912	0.588 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014842.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 10:28
Operator : YP\AJ
Sample : P4839-01 20X
Misc :
ALS Vial : 11 Sample Multiplier: 1

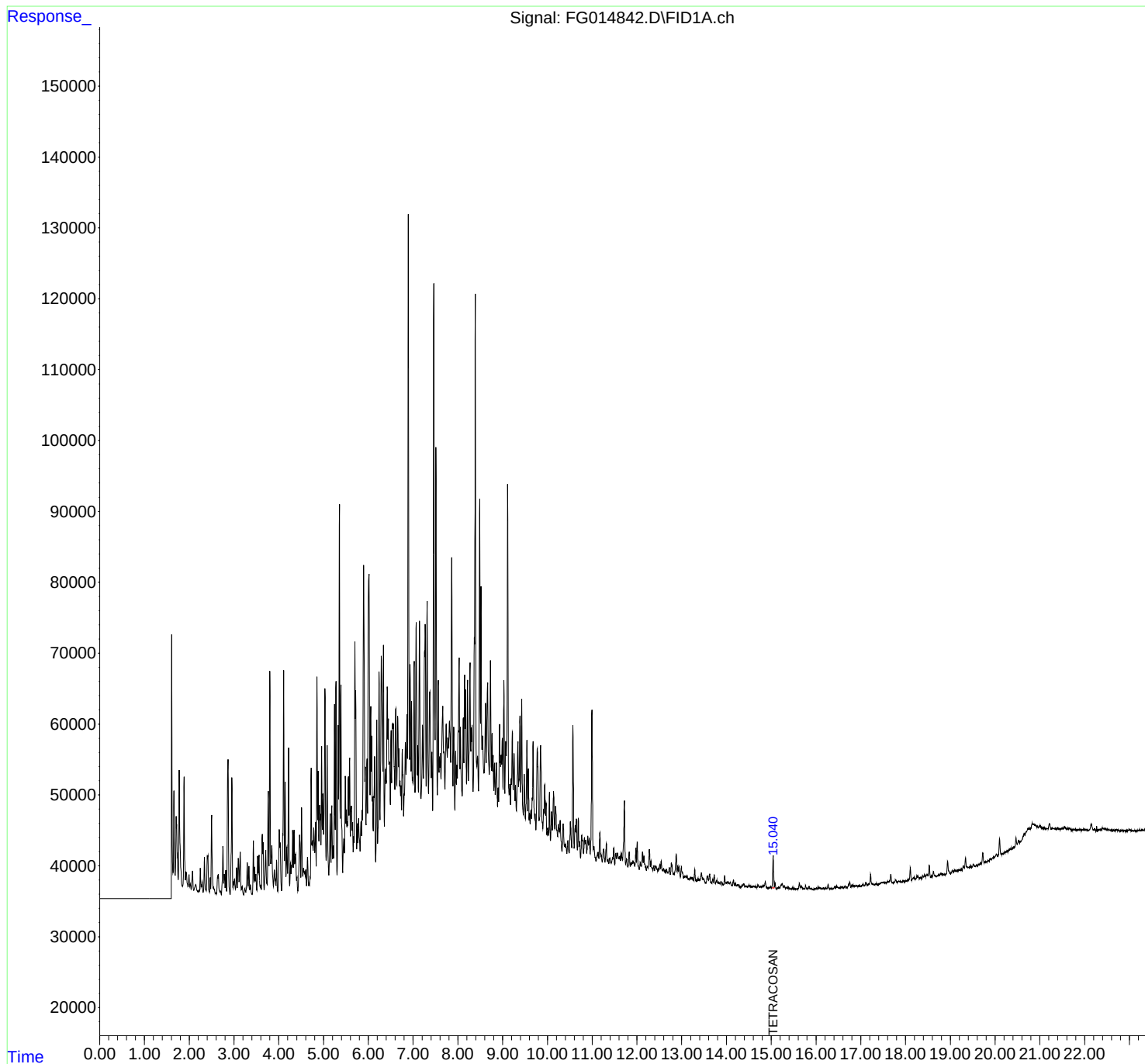
Instrument :
FID_G
ClientSampleId :
EX-9-TPH-9

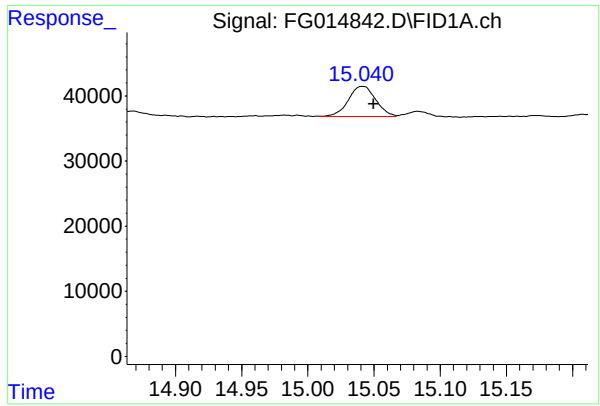
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: autoint1.e
Quant Time: Nov 19 01:30:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.040 min
Delta R.T.: -0.009 min
Response: 65912
Conc: 0.59 ug/ml

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-9

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11182
Data File : FG014842.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 10:28
Sample : P4839-01 20X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.311	4.300	4.325	BV	4930	38147	2.17%	0.054%
2	4.341	4.325	4.356	VV	5910	59938	3.41%	0.085%
3	4.374	4.356	4.397	VV	3549	58075	3.31%	0.083%
4	4.406	4.397	4.427	VV	1275	10304	0.59%	0.015%
5	4.466	4.427	4.493	PV	7922	159575	9.09%	0.227%
6	4.510	4.493	4.538	VV	11768	159168	9.06%	0.227%
7	4.555	4.538	4.575	VV	3263	60682	3.46%	0.086%
8	4.581	4.575	4.592	VV	2661	25604	1.46%	0.036%
9	4.604	4.592	4.621	VV	3012	36996	2.11%	0.053%
10	4.643	4.621	4.667	VV	4811	71930	4.10%	0.102%
11	4.676	4.667	4.685	VV	971	9456	0.54%	0.013%
12	4.700	4.685	4.704	VV	1902	16537	0.94%	0.024%
13	4.724	4.704	4.740	VV	17375	201249	11.46%	0.287%
14	4.750	4.740	4.767	VV	7089	108741	6.19%	0.155%
15	4.782	4.767	4.805	VV	8927	160105	9.12%	0.228%
16	4.822	4.805	4.836	VV	9735	131327	7.48%	0.187%
17	4.854	4.836	4.868	VV	30208	328660	18.72%	0.468%
18	4.878	4.868	4.897	VV	16920	209020	11.90%	0.298%
19	4.914	4.897	4.925	VV	12099	172103	9.80%	0.245%
20	4.931	4.925	4.943	VV	10874	101904	5.80%	0.145%
21	4.958	4.943	4.974	VV	20385	244476	13.92%	0.348%
22	4.988	4.974	5.002	VV	13736	186395	10.61%	0.266%
23	5.033	5.002	5.059	VV	28548	494071	28.14%	0.704%
24	5.081	5.059	5.118	VV	20551	314845	17.93%	0.449%
25	5.150	5.118	5.166	VV	10934	175473	9.99%	0.250%
26	5.184	5.166	5.204	VV	12035	179927	10.25%	0.256%
27	5.215	5.204	5.226	VV	6367	71887	4.09%	0.102%
28	5.246	5.226	5.261	VV	26332	316806	18.04%	0.451%
29	5.278	5.261	5.302	VV	29582	371725	21.17%	0.530%
30	5.326	5.302	5.338	VV	23383	282945	16.11%	0.403%
31	5.354	5.338	5.372	VV	54535	623053	35.48%	0.888%
32	5.388	5.372	5.427	VV	29058	448429	25.54%	0.639%
33	5.454	5.427	5.467	VV	7301	137203	7.81%	0.195%
34	5.488	5.467	5.502	VV	16205	233451	13.29%	0.333%
35	5.511	5.502	5.522	VV	11481	125247	7.13%	0.178%
36	5.529	5.522	5.536	VV	9804	79070	4.50%	0.113%

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37	5.555	5.536	5.568	VV	16152	245455	13.98%	0.350%
38	5.583	5.568	5.600	VV	18772	266919	15.68%	0.442%
39	5.614	5.600	5.618	VV	11936	116287	6.77%	0.185%
40	5.623	5.618	5.640	VV	12001	136629	7.38%	0.185%
41	5.648	5.640	5.663	VV	9678	112574	6.03%	0.192%
42	5.677	5.663	5.684	VV	7736	86408	4.24%	0.127%
43	5.701	5.684	5.712	VV	35126	393910	22.43%	0.561%
44	5.720	5.712	5.740	VV	28274	310420	17.68%	0.442%
45	5.755	5.740	5.768	VV	9517	129604	7.38%	0.185%
46	5.784	5.768	5.817	VV	10242	232087	13.22%	0.331%
47	5.837	5.817	5.848	VV	9830	148182	8.44%	0.211%
48	5.860	5.848	5.870	VV	11407	134654	7.67%	0.192%
49	5.897	5.870	5.925	VV	45979	931166	53.03%	1.327%
50	5.932	5.925	5.948	VV	17467	194597	11.08%	0.277%
51	5.972	5.948	5.984	VV	18629	297909	16.97%	0.424%
52	6.014	5.984	6.040	VV	44692	1052849	59.96%	1.500%
53	6.054	6.040	6.066	VV	26032	310053	17.66%	0.442%
54	6.076	6.066	6.109	VV	21862	395095	22.50%	0.563%
55	6.141	6.109	6.164	VV	18920	397716	22.65%	0.567%
56	6.189	6.164	6.208	VV	24129	331175	18.86%	0.472%
57	6.242	6.208	6.261	VV	30931	509526	29.02%	0.726%
58	6.292	6.261	6.325	VV	33148	889687	50.67%	1.268%
59	6.339	6.325	6.359	VV	34667	446328	25.42%	0.636%
60	6.381	6.359	6.395	VV	17140	316293	18.01%	0.451%
61	6.425	6.395	6.438	VV	28757	566937	32.29%	0.808%
62	6.447	6.438	6.461	VV	24279	287672	16.38%	0.410%
63	6.466	6.461	6.493	VV	18266	323375	18.42%	0.461%
64	6.508	6.493	6.520	VV	22633	287143	16.35%	0.409%
65	6.537	6.520	6.543	VV	23570	283549	16.15%	0.404%
66	6.549	6.543	6.556	VV	23701	180503	10.28%	0.257%
67	6.563	6.556	6.594	VV	23547	434132	24.72%	0.619%
68	6.613	6.594	6.636	VV	25714	492864	28.07%	0.702%
69	6.657	6.636	6.675	VV	24642	477049	27.17%	0.680%
70	6.685	6.675	6.701	VV	20067	277379	15.80%	0.395%
71	6.709	6.701	6.721	VV	15509	182049	10.37%	0.259%
72	6.732	6.721	6.743	VV	14857	173774	9.90%	0.248%
73	6.759	6.743	6.789	VV	19949	437871	24.94%	0.624%
74	6.804	6.789	6.810	VV	13713	155989	8.88%	0.222%
75	6.829	6.810	6.843	VV	20944	351902	20.04%	0.501%
76	6.864	6.843	6.875	VV	24920	400500	22.81%	0.571%
77	6.894	6.875	6.918	VV	95466	1262213	71.88%	1.798%
78	6.933	6.918	6.954	VV	31937	545877	31.09%	0.778%
79	6.967	6.954	6.998	VV	26694	494218	28.14%	0.704%
80	7.024	6.998	7.045	VV	32354	606463	34.54%	0.864%
81	7.069	7.045	7.095	VV	37821	766235	43.64%	1.092%
82	7.105	7.095	7.119	VV	20470	253192	14.42%	0.361%
83	7.145	7.119	7.177	VV	38062	794144	45.23%	1.131%
84	7.212	7.177	7.231	VV	23350	569844	32.45%	0.812%
85	7.257	7.231	7.262	VV	33861	479758	27.32%	0.684%
86	7.273	7.262	7.293	VV	37580	533072	30.36%	0.759%
87	7.314	7.293	7.345	VV	40791	764086	43.51%	1.089%
88	7.372	7.345	7.406	VV	28070	772147	43.97%	1.100%
89	7.420	7.406	7.439	VV	19578	324979	18.51%	0.463%

Instrument :

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ClientSampleId :

EX-9-TPH-9

Manual IntegrationsAPPROVED

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					rters				
90	7.462	7.439	7.493	VV	85685	1314503	74.86%	1.873%	
91	7.511	7.493	7.542	VV	62503	1025155	58.12%	0.913%	
92	7.563	7.542	7.580	VV	29661	487261	27.22%	0.408%	
93	7.590	7.580	7.598	VV	18922	200168	11.00%	0.912%	
94	7.609	7.598	7.624	VV	19372	272290	15.00%	1.333%	
95	7.664	7.624	7.712	VV	26022	1068370	60.00%	0.641%	
96	7.740	7.712	7.766	VV	23556	640687	36.49%	0.913%	
97	7.778	7.766	7.789	VV	21551	286689	16.33%	0.408%	
98	7.813	7.789	7.838	VV	23898	639885	36.44%	0.912%	
99	7.864	7.838	7.892	VV	46981	935631	53.28%	1.333%	
100	7.911	7.892	7.933	VV	23072	450139	25.63%	0.641%	
101	7.952	7.933	7.967	VV	19675	332363	18.93%	0.474%	
102	7.980	7.967	7.990	VV	17762	220364	12.55%	0.314%	
103	8.007	7.990	8.011	VV	22597	258595	14.73%	0.368%	
104	8.030	8.011	8.046	VV	32821	542513	30.90%	0.773%	
105	8.058	8.046	8.098	VV	23081	546954	31.15%	0.779%	
106	8.121	8.098	8.135	VV	24393	414116	23.58%	0.590%	
107	8.151	8.135	8.164	VV	30408	439845	25.05%	0.627%	
108	8.174	8.164	8.195	VV	28338	414549	23.61%	0.591%	
109	8.218	8.195	8.236	VV	29696	524908	29.89%	0.748%	
110	8.272	8.236	8.289	VV	32141	724679	41.27%	1.032%	
111	8.301	8.289	8.310	VV	22971	281388	16.02%	0.401%	
112	8.320	8.310	8.340	VV	23378	347304	19.78%	0.495%	
113	8.390	8.340	8.425	VV	84187	1755972	100.00%	2.502%	
114	8.442	8.425	8.462	VV	19009	387580	22.07%	0.552%	
115	8.489	8.462	8.505	VV	55159	847070	48.24%	1.207%	
116	8.518	8.505	8.541	VV	42886	642457	36.59%	0.915%	
117	8.553	8.541	8.585	VV	21728	512245	29.17%	0.730%	
118	8.619	8.585	8.634	VV	26465	599376	34.13%	0.854%	
119	8.665	8.634	8.703	VV	29298	919058	52.34%	1.309%	
120	8.730	8.703	8.750	VV	32462	653356	37.21%	0.931%	
121	8.766	8.750	8.779	VV	22233	338982	19.30%	0.483%	
122	8.789	8.779	8.805	VV	19080	258096	14.70%	0.368%	
123	8.820	8.805	8.836	VV	17996	295258	16.81%	0.421%	
124	8.862	8.836	8.888	VV	18046	474661	27.03%	0.676%	
125	8.901	8.888	8.913	VV	14490	200960	11.44%	0.286%	
126	8.932	8.913	8.957	VV	23452	496188	28.26%	0.707%	
127	8.967	8.957	8.979	VV	19063	240991	13.72%	0.343%	
128	8.993	8.979	9.010	VV	21515	343951	19.59%	0.490%	
129	9.030	9.010	9.050	VV	29657	514041	29.27%	0.732%	
130	9.069	9.050	9.082	VV	21019	346211	19.72%	0.493%	
131	9.114	9.082	9.150	VV	57317	1133840	64.57%	1.615%	
132	9.162	9.150	9.178	VV	15010	234368	13.35%	0.334%	
133	9.192	9.178	9.200	VV	15799	192957	10.99%	0.275%	
134	9.217	9.200	9.238	VV	22378	403336	22.97%	0.575%	
135	9.257	9.238	9.277	VV	19310	382433	21.78%	0.545%	
136	9.289	9.277	9.309	VV	14902	256451	14.60%	0.365%	
137	9.342	9.309	9.357	VV	20992	470729	26.81%	0.671%	
138	9.387	9.357	9.404	VV	24640	507950	28.93%	0.724%	
139	9.428	9.404	9.464	VV	27000	593005	33.77%	0.845%	
140	9.484	9.464	9.509	VV	16414	352037	20.05%	0.502%	
141	9.545	9.509	9.562	VV	21210	463246	26.38%	0.660%	

Instrument :

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					rters			
142	9.576	9.562	9.593	VV	17167	251614	14.33%	0.358%
143	9.602	9.593	9.615	VV	10939	140297		
144	9.634	9.615	9.648	VV	11332	209704		
145	9.662	9.648	9.666	VV	13073	125051		
146	9.681	9.666	9.719	VV	21017	454156	25.84%	0.836%
147	9.728	9.719	9.745	VV	10812	153713	8.41%	0.210%
148	9.774	9.745	9.813	VV	19968	586783	33.42%	0.836%
149	9.849	9.813	9.901	VV	20471	691450	39.38%	0.985%
150	9.918	9.901	9.927	VV	11502	161609	9.20%	0.230%
151	9.941	9.927	9.959	VV	14918	250625	14.27%	0.357%
152	9.971	9.959	9.990	VV	12344	193873	11.04%	0.276%
153	10.012	9.990	10.027	VV	8824	183891	10.47%	0.262%
154	10.047	10.027	10.071	VV	13871	261595	14.90%	0.373%
155	10.092	10.071	10.112	VV	11132	227836	12.97%	0.325%
156	10.139	10.112	10.164	VV	14002	347478	19.79%	0.495%
157	10.183	10.164	10.229	VV	11842	373124	21.25%	0.532%
158	10.246	10.229	10.270	VV	9258	210659	12.00%	0.300%
159	10.287	10.270	10.325	VV	9881	257449	14.66%	0.367%
160	10.353	10.325	10.381	VV	9390	248634	14.16%	0.354%
161	10.395	10.381	10.405	VV	6502	92441	5.26%	0.132%
162	10.414	10.405	10.437	VV	6421	110918	6.32%	0.158%
163	10.458	10.437	10.486	VV	7029	178653	10.17%	0.255%
164	10.514	10.486	10.544	VV	9702	253280	14.42%	0.361%
165	10.572	10.544	10.598	VV	23291	431775	24.59%	0.615%
166	10.621	10.598	10.633	VV	9134	163898	9.33%	0.234%
167	10.647	10.633	10.671	VV	10097	184144	10.49%	0.262%
168	10.691	10.671	10.709	VV	10174	178900	10.19%	0.255%
169	10.719	10.709	10.743	VV	6914	121329	6.91%	0.173%
170	10.767	10.743	10.806	VV	7784	241943	13.78%	0.345%
171	10.829	10.806	10.841	VV	7472	137141	7.81%	0.195%
172	10.855	10.841	10.879	VV	7032	147748	8.41%	0.210%
173	10.903	10.879	10.920	VV	7651	159984	9.11%	0.228%
174	10.937	10.920	10.956	VV	7358	141803	8.08%	0.202%
175	10.996	10.956	11.026	VV	25457	515470	29.36%	0.734%
176	11.043	11.026	11.084	VV	6221	184169	10.49%	0.262%
177	11.118	11.084	11.122	VV	5035	103614	5.90%	0.148%
178	11.132	11.122	11.149	VV	5344	82893	4.72%	0.118%
179	11.171	11.149	11.230	VV	8170	263271	14.99%	0.375%
180	11.254	11.230	11.286	VV	5835	165291	9.41%	0.235%
181	11.317	11.286	11.342	VV	6592	170352	9.70%	0.243%
182	11.355	11.342	11.372	VV	4292	71902	4.09%	0.102%
183	11.395	11.372	11.417	VV	4531	112946	6.43%	0.161%
184	11.432	11.417	11.437	VV	3992	46416	2.64%	0.066%
185	11.455	11.437	11.462	VV	4604	65074	3.71%	0.093%
186	11.482	11.462	11.505	VV	5953	126250	7.19%	0.180%
187	11.530	11.505	11.550	VV	5232	127455	7.26%	0.182%
188	11.566	11.550	11.592	VV	5262	120726	6.88%	0.172%
189	11.600	11.592	11.610	VV	4589	51174	2.91%	0.073%
190	11.621	11.610	11.635	VV	4776	66586	3.79%	0.095%
191	11.652	11.635	11.679	VV	5227	122567	6.98%	0.175%
192	11.720	11.679	11.750	VV	12629	303797	17.30%	0.433%
193	11.769	11.750	11.797	VV	4490	109428	6.23%	0.156%
194	11.826	11.797	11.851	VV	5412	135300	7.71%	0.193%

Instrument :

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Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 11/19/2024

195	11.868	11.851	11.882	VV	3969	68312	3.89%	0.097%
196	11.893	11.882	11.896	VV	3838	32248		
197	11.918	11.896	11.952	VV	4103	127423		
198	11.976	11.952	11.990	VV	5983	105194		
199	12.007	11.990	12.051	VV	6790	157767		
200	12.073	12.051	12.098	VV	3920	98305		
201	12.125	12.098	12.142	VV	5393	113171	6.44%	0.161%
202	12.156	12.142	12.213	VV	4840	157811	8.99%	0.225%
203	12.231	12.213	12.248	VV	3384	65886	3.75%	0.094%
204	12.278	12.248	12.302	VV	5763	140142	7.98%	0.200%
205	12.315	12.302	12.333	VV	4070	67301	3.83%	0.096%
206	12.338	12.333	12.354	VV	3217	38383	2.19%	0.055%
207	12.378	12.354	12.395	VV	3459	76852	4.38%	0.109%
208	12.426	12.395	12.449	VV	3381	101610	5.79%	0.145%
209	12.454	12.449	12.465	VV	2930	27029	1.54%	0.039%
210	12.479	12.465	12.492	VV	3088	47360	2.70%	0.067%
211	12.512	12.492	12.526	VV	3628	67079	3.82%	0.096%
212	12.542	12.526	12.574	VV	4115	94248	5.37%	0.134%
213	12.595	12.574	12.614	VV	3064	68537	3.90%	0.098%
214	12.627	12.614	12.642	VV	2805	43357	2.47%	0.062%
215	12.663	12.642	12.692	VV	2904	79627	4.53%	0.113%
216	12.725	12.692	12.750	VV	3141	91206	5.19%	0.130%
217	12.769	12.750	12.806	VV	3814	101175	5.76%	0.144%
218	12.810	12.806	12.835	VV	2296	38777	2.21%	0.055%
219	12.877	12.835	12.899	VV	5039	128575	7.32%	0.183%
220	12.913	12.899	12.927	VV	3426	51195	2.92%	0.073%
221	12.940	12.927	12.973	VV	3332	72813	4.15%	0.104%
222	12.994	12.973	13.043	VV	3295	101556	5.78%	0.145%
223	13.049	13.043	13.058	VV	1852	15627	0.89%	0.022%
224	13.065	13.058	13.071	VV	1914	14813	0.84%	0.021%
225	13.081	13.071	13.106	VV	1994	39047	2.22%	0.056%
226	13.120	13.106	13.142	VV	2064	38389	2.19%	0.055%
227	13.151	13.142	13.158	VV	1608	14238	0.81%	0.020%
228	13.162	13.158	13.167	VV	1514	7986	0.45%	0.011%
229	13.188	13.167	13.195	VV	1678	26761	1.52%	0.038%
230	13.216	13.195	13.229	VV	1779	34095	1.94%	0.049%
231	13.239	13.229	13.262	VV	1736	30775	1.75%	0.044%
232	13.292	13.262	13.344	VV	2897	83490	4.75%	0.119%
233	13.361	13.344	13.375	VV	1661	27641	1.57%	0.039%
234	13.394	13.375	13.406	VV	1499	26105	1.49%	0.037%
235	13.438	13.406	13.487	VV	2415	86791	4.94%	0.124%
236	13.495	13.487	13.538	VV	1512	37254	2.12%	0.053%
237	13.571	13.538	13.602	VV	1910	58774	3.35%	0.084%
238	13.625	13.602	13.667	VV	2250	57217	3.26%	0.082%
239	13.691	13.667	13.704	VV	1417	26207	1.49%	0.037%
240	13.726	13.704	13.748	VV	2121	39724	2.26%	0.057%
241	13.782	13.748	13.810	VV	1378	42330	2.41%	0.060%
242	13.818	13.810	13.826	VV	1025	9138	0.52%	0.013%
243	13.831	13.826	13.838	VV	1076	7435	0.42%	0.011%
244	13.846	13.838	13.864	VV	1031	14781	0.84%	0.021%
245	13.876	13.864	13.919	VV	1178	31289	1.78%	0.045%
246	13.959	13.919	13.980	VV	1971	41698	2.37%	0.059%

Instrument :

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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

					retention			
247	13.993	13.980	14.007	VV	1028	15962	0.91%	0.023%
248	14.028	14.007	14.052	VV	1205	27721		
249	14.056	14.052	14.069	VV	979	9602		
250	14.089	14.069	14.117	VV	1103	24841		
251	14.123	14.117	14.128	VV	633	3780		
252	14.158	14.128	14.182	VV	1392	30782		
253	14.200	14.182	14.224	VV	946	19208	1.09%	0.027%
254	14.233	14.224	14.242	VV	680	6824	0.39%	0.010%
255	14.259	14.242	14.285	VV	761	16786	0.96%	0.024%
256	14.291	14.285	14.317	VV	548	7941	0.45%	0.011%
257	14.375	14.317	14.409	VV	816	33097	1.88%	0.047%
258	14.433	14.409	14.470	VV	528	16935	0.96%	0.024%
259	14.475	14.470	14.484	VV	456	3409	0.19%	0.005%
260	14.500	14.484	14.525	VV	668	13554	0.77%	0.019%
261	14.537	14.525	14.567	VV	556	11604	0.66%	0.017%
262	14.581	14.567	14.586	VV	500	5017	0.29%	0.007%
263	14.592	14.586	14.600	VV	514	4093	0.23%	0.006%
264	14.606	14.600	14.615	VV	523	4296	0.24%	0.006%
265	14.620	14.615	14.641	VV	526	6620	0.38%	0.009%
266	14.654	14.641	14.675	VV	542	8329	0.47%	0.012%
267	14.702	14.675	14.729	VV	701	16063	0.91%	0.023%
268	14.738	14.729	14.749	VV	426	4461	0.25%	0.006%
269	14.764	14.749	14.784	VV	519	8668	0.49%	0.012%
270	14.802	14.784	14.809	VV	515	6510	0.37%	0.009%
271	14.823	14.809	14.838	VV	695	9648	0.55%	0.014%
272	14.867	14.838	14.911	VV	1076	26150	1.49%	0.037%
273	14.917	14.911	14.924	VV	290	1810	0.10%	0.003%
274	14.929	14.924	14.946	VV	243	2685	0.15%	0.004%
275	14.960	14.946	14.965	VV	367	3274	0.19%	0.005%
276	14.982	14.965	15.010	VV	443	9053	0.52%	0.013%
277	15.041	15.010	15.068	VV	4835	74576	4.25%	0.106%
278	15.083	15.068	15.115	VV	1035	14614	0.83%	0.021%
279	15.130	15.115	15.135	VV	239	2132	0.12%	0.003%
280	15.171	15.135	15.189	VV	382	8549	0.49%	0.012%
281	15.220	15.189	15.229	VV	659	11817	0.67%	0.017%
282	15.243	15.229	15.269	VV	882	15087	0.86%	0.021%
283	15.290	15.269	15.322	VV	607	11889	0.68%	0.017%
284	15.336	15.322	15.357	VV	337	5726	0.33%	0.008%
285	15.378	15.357	15.439	VV	401	9999	0.57%	0.014%
286	15.451	15.439	15.456	VV	124	948	0.05%	0.001%
287	15.461	15.456	15.467	VV	132	676	0.04%	0.001%
288	15.481	15.467	15.507	VV	282	4536	0.26%	0.006%
289	15.513	15.507	15.523	VV	120	749	0.04%	0.001%
290	15.531	15.523	15.559	VV	90	1696	0.10%	0.002%
291	15.579	15.559	15.584	VV	169	1555	0.09%	0.002%
292	15.594	15.584	15.599	VV	140	932	0.05%	0.001%
293	15.626	15.599	15.651	VV	925	15887	0.90%	0.023%
294	15.669	15.651	15.706	VV	567	11783	0.67%	0.017%
295	15.712	15.706	15.717	VV	148	774	0.04%	0.001%
296	15.723	15.717	15.736	VV	193	1612	0.09%	0.002%
297	15.740	15.736	15.747	VV	89	571	0.03%	0.001%
298	15.766	15.747	15.800	VV	661	9562	0.54%	0.014%
299	15.804	15.800	15.814	VV	228	1410	0.08%	0.002%

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-9

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

300	15.844	15.814	15.872	VV	482	8672	0.49%	0.012%
301	15.895	15.872	15.920	VV	184	3342		
302	15.924	15.920	15.937	PV	87	301		
303	15.998	15.937	16.002	PV	188	3388		
304	16.021	16.002	16.026	VV	195	2424		
305	16.049	16.026	16.058	VV	344	4487		
306	16.061	16.058	16.084	VV	278	3649	0.21%	0.005%
307	16.089	16.084	16.114	VV	223	2262	0.13%	0.003%
308	16.132	16.114	16.149	VV	186	2881	0.16%	0.004%
309	16.172	16.149	16.197	VV	187	3701	0.21%	0.005%
310	16.206	16.197	16.210	VV	162	829	0.05%	0.001%
311	16.224	16.210	16.245	VV	197	2598	0.15%	0.004%
312	16.268	16.245	16.296	VV	717	11122	0.63%	0.016%
313	16.300	16.296	16.317	VV	128	1388	0.08%	0.002%
314	16.325	16.317	16.349	VV	177	2105	0.12%	0.003%
315	16.359	16.349	16.374	VV	104	1170	0.07%	0.002%
316	16.410	16.374	16.434	PV	326	6087	0.35%	0.009%
317	16.459	16.434	16.497	VV	388	9697	0.55%	0.014%
318	16.502	16.497	16.533	VV	159	2294	0.13%	0.003%
319	16.562	16.533	16.587	VV	239	4955	0.28%	0.007%
320	16.599	16.587	16.616	VV	201	2294	0.13%	0.003%
321	16.621	16.616	16.624	VV	111	444	0.03%	0.001%
322	16.637	16.624	16.642	VV	254	1973	0.11%	0.003%
323	16.651	16.642	16.689	VV	263	3454	0.20%	0.005%
324	16.751	16.689	16.781	PV	856	19119	1.09%	0.027%
325	16.802	16.781	16.818	VV	302	4631	0.26%	0.007%
326	16.828	16.818	16.857	VV	316	4662	0.27%	0.007%
327	16.862	16.857	16.866	VV	143	651	0.04%	0.001%
328	16.875	16.866	16.883	VV	218	1564	0.09%	0.002%
329	16.890	16.883	16.903	VV	190	1830	0.10%	0.003%
330	16.908	16.903	16.920	VV	197	1655	0.09%	0.002%
331	16.930	16.920	16.935	VV	152	1128	0.06%	0.002%
332	16.940	16.935	16.950	VV	176	1125	0.06%	0.002%
333	16.952	16.950	16.961	VV	133	740	0.04%	0.001%
334	16.968	16.961	16.979	VV	172	1401	0.08%	0.002%
335	16.985	16.979	17.002	VV	184	1265	0.07%	0.002%
336	17.019	17.002	17.030	PV	146	1860	0.11%	0.003%
337	17.050	17.030	17.074	VV	363	5543	0.32%	0.008%
338	17.111	17.074	17.150	VV	534	9846	0.56%	0.014%
339	17.177	17.150	17.193	VV	294	4994	0.28%	0.007%
340	17.218	17.193	17.254	VV	1600	24530	1.40%	0.035%
341	17.268	17.254	17.288	VV	256	3247	0.18%	0.005%
342	17.294	17.288	17.298	PV	86	230	0.01%	0.000%
343	17.301	17.298	17.305	VV	60	159	0.01%	0.000%
344	17.324	17.305	17.329	VV	66	695	0.04%	0.001%
345	17.335	17.329	17.347	VV	49	394	0.02%	0.001%

Sum of corrected areas: 70189434

FG111324.M Tue Nov 19 02:25:13 2024

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-9

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-10		SDG No.:	P4839	
Lab Sample ID:	P4839-02		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	87.4	Decanted:
Sample Wt/Vol:	30.09	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
FG014846.D	10	11/14/24 13:15	11/18/24 12:28	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	214000		2110	19000	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.37		37 - 130	68%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014846.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 12:28
Operator : YP\AJ
Sample : P4839-02 10X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-10

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: autoint1.e
Quant Time: Nov 19 01:30:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.039	154024	1.373 ug/mlm

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014846.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 12:28
Operator : YP\AJ
Sample : P4839-02 10X
Misc :
ALS Vial : 15 Sample Multiplier: 1

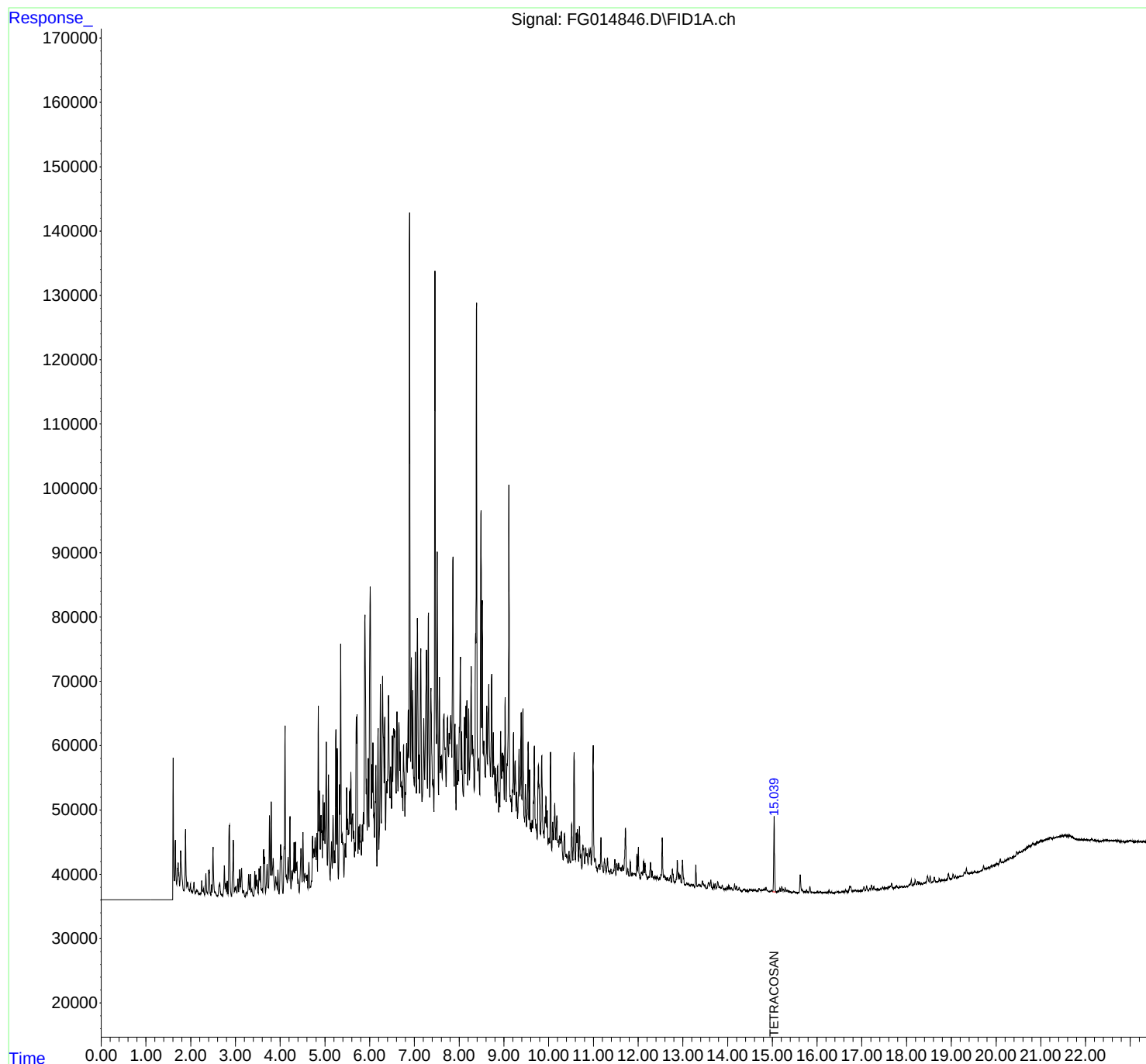
Instrument :
FID_G
ClientSampleId :
EX-9-TPH-10

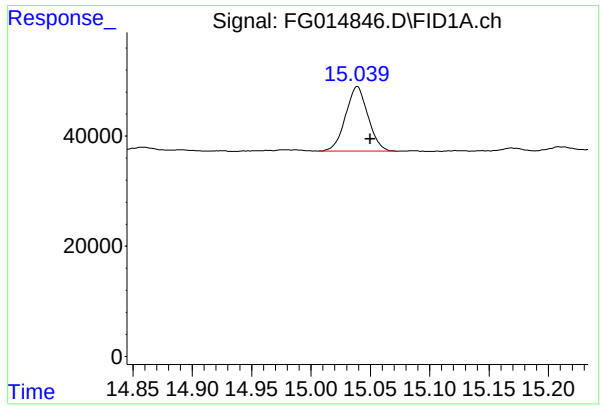
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: autoint1.e
Quant Time: Nov 19 01:30:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.039 min
Delta R.T.: -0.011 min
Response: 154024
Conc: 1.37 ug/ml

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-10

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

rters

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-10

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824
Data File : FG014846.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 12:28
Sample : P4839-02 10X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.465	4.420	4.492	BV	6732	129971	6.90%	0.183%
2	4.510	4.492	4.535	VV	9263	125813	6.68%	0.178%
3	4.554	4.535	4.572	VV	2806	51459	2.73%	0.073%
4	4.580	4.572	4.592	VV	2393	26463	1.40%	0.037%
5	4.604	4.592	4.621	VV	2661	31151	1.65%	0.044%
6	4.643	4.621	4.667	VV	4578	65996	3.50%	0.093%
7	4.674	4.667	4.683	VV	824	7104	0.38%	0.010%
8	4.700	4.683	4.704	VV	1653	15689	0.83%	0.022%
9	4.723	4.704	4.736	VV	8639	100960	5.36%	0.143%
10	4.751	4.736	4.767	VV	6637	116268	6.17%	0.164%
11	4.782	4.767	4.804	VV	8415	145808	7.74%	0.206%
12	4.821	4.804	4.835	VV	9139	124198	6.59%	0.175%
13	4.853	4.835	4.867	VV	28851	308309	16.37%	0.435%
14	4.877	4.867	4.896	VV	15662	194481	10.32%	0.275%
15	4.913	4.896	4.926	VV	11890	177591	9.43%	0.251%
16	4.930	4.926	4.943	VV	9511	83144	4.41%	0.117%
17	4.957	4.943	4.972	VV	15063	183359	9.73%	0.259%
18	4.987	4.972	5.002	VV	13854	191734	10.18%	0.271%
19	5.032	5.002	5.057	VV	23281	412631	21.90%	0.582%
20	5.081	5.057	5.117	VV	18194	285624	15.16%	0.403%
21	5.148	5.117	5.164	VV	7821	136588	7.25%	0.193%
22	5.183	5.164	5.203	VV	11888	180125	9.56%	0.254%
23	5.215	5.203	5.226	VV	6409	72523	3.85%	0.102%
24	5.245	5.226	5.261	VV	25221	303704	16.12%	0.429%
25	5.277	5.261	5.301	VV	22274	276758	14.69%	0.391%
26	5.327	5.301	5.337	VV	16671	202036	10.72%	0.285%
27	5.354	5.337	5.377	VV	38516	494233	26.24%	0.698%
28	5.389	5.377	5.401	VV	8983	115417	6.13%	0.163%
29	5.407	5.401	5.426	VV	7660	86660	4.60%	0.122%
30	5.453	5.426	5.466	VV	7501	137660	7.31%	0.194%
31	5.487	5.466	5.501	VV	16191	233884	12.42%	0.330%
32	5.510	5.501	5.521	VV	11357	122146	6.48%	0.172%
33	5.529	5.521	5.535	VV	9625	80009	4.25%	0.113%
34	5.554	5.535	5.567	VV	15649	233748	12.41%	0.330%
35	5.582	5.567	5.599	VV	18591	267463	14.20%	0.378%
36	5.622	5.599	5.639	VV	12158	252945	13.43%	0.357%

					rters			
37	5.647	5.639	5.662	VV	9471	109616	5.82%	0.155%
38	5.675	5.662	5.684	VV	7636	87760		
39	5.702	5.684	5.710	VV	27176	296905		
40	5.719	5.710	5.740	VV	27556	325517		
41	5.754	5.740	5.768	VV	10160	136805		
42	5.783	5.768	5.816	VV	10483	232605		
43	5.835	5.816	5.846	VV	10432	153229	8.13%	0.216%
44	5.860	5.846	5.868	VV	12411	139670	7.41%	0.197%
45	5.895	5.868	5.924	VV	43028	919682	48.82%	1.298%
46	5.931	5.924	5.946	VV	17605	190948	10.14%	0.270%
47	5.971	5.946	5.984	VV	20802	331072	17.57%	0.467%
48	6.014	5.984	6.041	VV	47408	1029161	54.63%	1.453%
49	6.054	6.041	6.063	VV	19857	219897	11.67%	0.310%
50	6.075	6.063	6.107	VV	23190	407031	21.61%	0.575%
51	6.140	6.107	6.164	VV	19703	418992	22.24%	0.591%
52	6.188	6.164	6.207	VV	25455	345316	18.33%	0.487%
53	6.241	6.207	6.260	VV	32294	528940	28.08%	0.747%
54	6.289	6.260	6.325	VV	33553	882364	46.84%	1.245%
55	6.338	6.325	6.357	VV	27126	364355	19.34%	0.514%
56	6.376	6.357	6.388	VV	17183	265210	14.08%	0.374%
57	6.423	6.388	6.453	VV	30571	838093	44.49%	1.183%
58	6.470	6.453	6.492	VV	19396	395447	20.99%	0.558%
59	6.508	6.492	6.519	VV	24309	316618	16.81%	0.447%
60	6.535	6.519	6.540	VV	25468	288913	15.34%	0.408%
61	6.547	6.540	6.556	VV	25289	230056	12.21%	0.325%
62	6.562	6.556	6.592	VV	25092	445706	23.66%	0.629%
63	6.612	6.592	6.636	VV	28020	544468	28.90%	0.769%
64	6.655	6.636	6.674	VV	26324	504052	26.76%	0.711%
65	6.683	6.674	6.700	VV	21804	301190	15.99%	0.425%
66	6.708	6.700	6.721	VV	17067	203043	10.78%	0.287%
67	6.730	6.721	6.742	VV	16454	193093	10.25%	0.273%
68	6.758	6.742	6.789	VV	22942	495698	26.31%	0.700%
69	6.803	6.789	6.807	VV	15492	152529	8.10%	0.215%
70	6.827	6.807	6.842	VV	23132	416403	22.10%	0.588%
71	6.863	6.842	6.874	VV	28335	447013	23.73%	0.631%
72	6.893	6.874	6.917	VV	105541	1401623	74.40%	1.978%
73	6.932	6.917	6.953	VV	36431	613125	32.55%	0.865%
74	6.966	6.953	6.999	VV	31385	588804	31.26%	0.831%
75	7.023	6.999	7.044	VV	37332	666221	35.37%	0.940%
76	7.068	7.044	7.094	VV	42450	860152	45.66%	1.214%
77	7.104	7.094	7.117	VV	21351	258804	13.74%	0.365%
78	7.143	7.117	7.171	VV	37896	806250	42.80%	1.138%
79	7.211	7.171	7.230	VV	26925	678547	36.02%	0.958%
80	7.272	7.230	7.292	VV	37680	986277	52.35%	1.392%
81	7.313	7.292	7.344	VV	43349	825422	43.82%	1.165%
82	7.370	7.344	7.410	VV	31660	886548	47.06%	1.251%
83	7.421	7.410	7.437	VV	17521	258695	13.73%	0.365%
84	7.461	7.437	7.493	VV	96500	1501677	79.71%	2.120%
85	7.510	7.493	7.541	VV	52870	932940	49.52%	1.317%
86	7.561	7.541	7.577	VV	33359	529397	28.10%	0.747%
87	7.588	7.577	7.598	VV	21057	250443	13.29%	0.353%
88	7.608	7.598	7.623	VV	21269	297526	15.79%	0.420%
89	7.662	7.623	7.711	VV	27660	1180830	62.68%	1.667%

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-10

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

						Instrument : FID_G		
						ClientSampleId : EX-9-TPH-10		
Sl. No.	Peak No.	Area	Height	Integration	Concentration	Concentration	Concentration	Concentration
90	7.739	7.711	7.764	VV	27149	715563	37.98%	1.010%
91	7.777	7.764	7.786	VV	24740	310741	16.24%	0.338%
92	7.813	7.786	7.837	VV	27493	754358	40.21%	0.860%
93	7.862	7.837	7.890	VV	52151	1050695	55.12%	0.852%
94	7.908	7.890	7.932	VV	26119	511694	27.18%	0.860%
95	7.950	7.932	7.966	VV	22950	386277	20.52%	0.660%
96	7.978	7.966	7.988	VV	18974	239558	12.72%	0.338%
97	8.005	7.988	8.010	VV	25654	287890	15.28%	0.406%
98	8.028	8.010	8.045	VV	36612	603707	32.05%	0.852%
99	8.057	8.045	8.098	VV	24909	609527	32.36%	0.860%
100	8.120	8.098	8.135	VV	27181	467320	24.81%	0.660%
101	8.151	8.135	8.162	VV	28958	404975	21.50%	0.572%
102	8.173	8.162	8.193	VV	29752	431293	22.89%	0.609%
103	8.215	8.193	8.234	VV	28547	537996	28.56%	0.759%
104	8.270	8.234	8.289	VV	35052	813919	43.21%	1.149%
105	8.299	8.289	8.312	VV	24380	316925	16.82%	0.447%
106	8.318	8.312	8.338	VV	22098	305959	16.24%	0.432%
107	8.388	8.338	8.418	VV	91607	1883840	100.00%	2.659%
108	8.439	8.418	8.461	VV	20698	492496	26.14%	0.695%
109	8.488	8.461	8.504	VV	59375	924944	49.10%	1.306%
110	8.516	8.504	8.539	VV	45270	687548	36.50%	0.970%
111	8.552	8.539	8.589	VV	23499	610838	32.43%	0.862%
112	8.618	8.589	8.633	VV	28997	605701	32.15%	0.855%
113	8.664	8.633	8.701	VV	32350	1009874	53.61%	1.425%
114	8.728	8.701	8.748	VV	33890	696472	36.97%	0.983%
115	8.765	8.748	8.779	VV	24803	386566	20.52%	0.546%
116	8.787	8.779	8.803	VV	19531	259840	13.79%	0.367%
117	8.817	8.803	8.834	VV	19341	314057	16.67%	0.443%
118	8.862	8.834	8.887	VV	19636	516839	27.44%	0.730%
119	8.900	8.887	8.912	VV	15551	211980	11.25%	0.299%
120	8.930	8.912	8.953	VV	24972	483418	25.66%	0.682%
121	8.969	8.953	8.982	VV	21686	340360	18.07%	0.480%
122	8.992	8.982	9.009	VV	21192	302343	16.05%	0.427%
123	9.029	9.009	9.051	VV	30303	543268	28.84%	0.767%
124	9.073	9.051	9.077	VV	20009	277303	14.72%	0.391%
125	9.113	9.077	9.154	VV	63496	1301424	69.08%	1.837%
126	9.163	9.154	9.175	VV	14484	172487	9.16%	0.243%
127	9.192	9.175	9.198	VV	15945	197776	10.50%	0.279%
128	9.216	9.198	9.235	VV	24857	436870	23.19%	0.617%
129	9.253	9.235	9.275	VV	20449	417299	22.15%	0.589%
130	9.288	9.275	9.307	VV	15664	262016	13.91%	0.370%
131	9.341	9.307	9.357	VV	22221	502024	26.65%	0.709%
132	9.386	9.357	9.404	VV	27931	539257	28.63%	0.761%
133	9.426	9.404	9.464	VV	28608	627236	33.30%	0.885%
134	9.485	9.464	9.507	VV	16816	344341	18.28%	0.486%
135	9.543	9.507	9.561	VV	23405	491021	26.06%	0.693%
136	9.575	9.561	9.592	VV	19041	269931	14.33%	0.381%
137	9.601	9.592	9.614	VV	10765	132245	7.02%	0.187%
138	9.631	9.614	9.646	VV	11228	202524	10.75%	0.286%
139	9.681	9.646	9.716	VV	22738	595912	31.63%	0.841%
140	9.726	9.716	9.742	VV	10539	153217	8.13%	0.216%
141	9.771	9.742	9.820	VV	19824	633934	33.65%	0.895%

							Instrument : FID_G	
							ClientSampleId : EX-9-TPH-10	
rteres								
142	9.847	9.820	9.880	VV	21228	508904	27.01%	0.718%
143	9.888	9.880	9.900	VV	9561	107684		
144	9.917	9.900	9.925	VV	11711	154866		
145	9.940	9.925	9.958	VV	14893	254105	13.54%	0.483%
							Manual Integration	
146	9.970	9.958	9.989	VV	12709	192572	10.35%	0.275%
147	10.009	9.989	10.025	VV	8420	171155	9.34%	0.248%
148	10.044	10.025	10.070	VV	21830	342124	18.16%	0.483%
149	10.091	10.070	10.112	VV	10927	228803	12.15%	0.323%
150	10.138	10.112	10.163	VV	13910	331829	17.61%	0.468%
							Reviewed By :Yogesh Supervised By :Anil	
151	10.185	10.163	10.206	VV	11934	254982	13.54%	0.360%
152	10.214	10.206	10.229	VV	8061	103917	5.52%	0.147%
153	10.247	10.229	10.269	VV	8799	195032	10.35%	0.275%
154	10.286	10.269	10.323	VV	9397	244589	12.98%	0.345%
155	10.352	10.323	10.380	VV	9179	235908	12.52%	0.333%
156	10.391	10.380	10.405	VV	5921	84927	4.51%	0.120%
157	10.415	10.405	10.436	VV	5722	95647	5.08%	0.135%
158	10.457	10.436	10.488	VV	6406	165028	8.76%	0.233%
159	10.515	10.488	10.544	VV	10680	239296	12.70%	0.338%
160	10.570	10.544	10.598	VV	21798	389350	20.67%	0.550%
161	10.620	10.598	10.631	VV	9325	151433	8.04%	0.214%
162	10.646	10.631	10.670	VV	9856	175908	9.34%	0.248%
163	10.689	10.670	10.709	VV	10253	173044	9.19%	0.244%
164	10.719	10.709	10.741	VV	5930	97022	5.15%	0.137%
165	10.766	10.741	10.777	VV	7410	127331	6.76%	0.180%
166	10.784	10.777	10.805	VV	6783	99651	5.29%	0.141%
167	10.829	10.805	10.843	VV	6957	132611	7.04%	0.187%
168	10.859	10.843	10.881	VV	6075	128689	6.83%	0.182%
169	10.902	10.881	10.917	VV	6751	124929	6.63%	0.176%
170	10.936	10.917	10.954	VV	6843	130209	6.91%	0.184%
171	10.994	10.954	11.025	VV	22882	455270	24.17%	0.643%
172	11.042	11.025	11.086	VV	5337	161215	8.56%	0.228%
173	11.134	11.086	11.149	VV	4429	149125	7.92%	0.210%
174	11.170	11.149	11.229	VV	8598	232313	12.33%	0.328%
175	11.249	11.229	11.287	VV	5195	144393	7.66%	0.204%
176	11.315	11.287	11.338	VV	5393	125312	6.65%	0.177%
177	11.352	11.338	11.369	VV	3403	59596	3.16%	0.084%
178	11.392	11.369	11.416	VV	3651	92733	4.92%	0.131%
179	11.453	11.416	11.458	VV	3495	81322	4.32%	0.115%
180	11.481	11.458	11.503	VV	5189	108289	5.75%	0.153%
181	11.522	11.503	11.549	VV	4501	107100	5.69%	0.151%
182	11.566	11.549	11.590	VV	4620	98273	5.22%	0.139%
183	11.596	11.590	11.610	VV	3777	44588	2.37%	0.063%
184	11.621	11.610	11.635	VV	3897	53316	2.83%	0.075%
185	11.651	11.635	11.678	VV	4262	99916	5.30%	0.141%
186	11.717	11.678	11.747	VV	9996	245818	13.05%	0.347%
187	11.769	11.747	11.798	VV	3708	95769	5.08%	0.135%
188	11.824	11.798	11.850	VV	4852	107139	5.69%	0.151%
189	11.867	11.850	11.880	VV	3137	52589	2.79%	0.074%
190	11.891	11.880	11.900	VV	3012	35198	1.87%	0.050%
191	11.911	11.900	11.924	VV	3044	41689	2.21%	0.059%
192	11.928	11.924	11.931	VV	2947	12564	0.67%	0.018%
193	11.935	11.931	11.950	VV	2937	31817	1.69%	0.045%
194	11.974	11.950	11.989	VV	6061	99974	5.31%	0.141%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

195	12.004	11.989	12.049	VV	7066	137563	7.30%	0.194%
196	12.074	12.049	12.082	VV	3244	55998		
197	12.088	12.082	12.102	VV	3126	34899		
198	12.123	12.102	12.140	VV	4944	85063		
199	12.154	12.140	12.210	VV	4587	130171		
200	12.235	12.210	12.244	VV	2509	46793		
201	12.277	12.244	12.298	VV	4717	109739	5.83%	0.155%
202	12.314	12.298	12.334	VV	3395	60633	3.22%	0.086%
203	12.339	12.334	12.356	VV	2425	30538	1.62%	0.043%
204	12.377	12.356	12.399	VV	2660	61884	3.28%	0.087%
205	12.415	12.399	12.442	VV	2520	62433	3.31%	0.088%
206	12.449	12.442	12.462	VV	2249	24841	1.32%	0.035%
207	12.477	12.462	12.489	VV	2416	35913	1.91%	0.051%
208	12.508	12.489	12.519	VV	2789	45007	2.39%	0.064%
209	12.539	12.519	12.574	VV	8568	152317	8.09%	0.215%
210	12.591	12.574	12.614	VV	2697	58746	3.12%	0.083%
211	12.624	12.614	12.640	VV	2345	33998	1.80%	0.048%
212	12.659	12.640	12.687	VV	2385	58993	3.13%	0.083%
213	12.721	12.687	12.746	VV	2729	76116	4.04%	0.107%
214	12.767	12.746	12.814	VV	3679	99351	5.27%	0.140%
215	12.818	12.814	12.827	VV	1715	13461	0.71%	0.019%
216	12.875	12.827	12.897	VV	5024	117334	6.23%	0.166%
217	12.911	12.897	12.926	VV	3070	46088	2.45%	0.065%
218	12.940	12.926	12.970	VV	2809	56715	3.01%	0.080%
219	12.992	12.970	13.062	VV	5092	128580	6.83%	0.181%
220	13.068	13.062	13.070	VV	1283	6251	0.33%	0.009%
221	13.088	13.070	13.104	VV	1599	28812	1.53%	0.041%
222	13.121	13.104	13.142	VV	1521	31058	1.65%	0.044%
223	13.151	13.142	13.169	VV	1249	17987	0.95%	0.025%
224	13.183	13.169	13.201	VV	1393	24194	1.28%	0.034%
225	13.210	13.201	13.234	VV	1302	24144	1.28%	0.034%
226	13.239	13.234	13.262	VV	1231	18207	0.97%	0.026%
227	13.290	13.262	13.319	VV	4326	71865	3.81%	0.101%
228	13.359	13.319	13.373	VV	1389	38494	2.04%	0.054%
229	13.387	13.373	13.410	VV	1236	24525	1.30%	0.035%
230	13.437	13.410	13.458	VV	1901	43009	2.28%	0.061%
231	13.466	13.458	13.486	VV	1344	20354	1.08%	0.029%
232	13.497	13.486	13.516	VV	1180	18712	0.99%	0.026%
233	13.522	13.516	13.532	VV	785	6907	0.37%	0.010%
234	13.570	13.532	13.601	VV	1643	49901	2.65%	0.070%
235	13.625	13.601	13.667	VV	2032	47652	2.53%	0.067%
236	13.689	13.667	13.702	VV	1379	21074	1.12%	0.030%
237	13.719	13.702	13.743	VV	1463	26520	1.41%	0.037%
238	13.778	13.743	13.808	VV	1774	46576	2.47%	0.066%
239	13.812	13.808	13.822	VV	915	7378	0.39%	0.010%
240	13.840	13.822	13.862	VV	884	19453	1.03%	0.027%
241	13.880	13.862	13.919	VV	1239	29110	1.55%	0.041%
242	13.929	13.919	13.940	VV	607	7313	0.39%	0.010%
243	13.952	13.940	13.965	VV	649	8731	0.46%	0.012%
244	13.986	13.965	14.012	VV	1039	21891	1.16%	0.031%
245	14.027	14.012	14.044	VV	1196	18508	0.98%	0.026%
246	14.051	14.044	14.057	VV	790	6049	0.32%	0.009%

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-10

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

247	14.060	14.057	14.064	VV	703	2981	0.16%	0.004%
248	14.081	14.064	14.120	VV	877	22430		
249	14.156	14.120	14.176	VV	1482	29224		
250	14.197	14.176	14.220	VV	1089	19067		
251	14.258	14.220	14.280	VV	888	21775		
252	14.288	14.280	14.312	VV	447	6488		
253	14.321	14.312	14.325	VV	267	1806	0.10%	0.003%
254	14.374	14.325	14.407	VV	643	23891	1.27%	0.034%
255	14.413	14.407	14.419	VV	405	2500	0.13%	0.004%
256	14.441	14.419	14.446	VV	428	6238	0.33%	0.009%
257	14.453	14.446	14.476	VV	404	6007	0.32%	0.008%
258	14.499	14.476	14.518	VV	639	12190	0.65%	0.017%
259	14.537	14.518	14.543	VV	531	7001	0.37%	0.010%
260	14.545	14.543	14.562	VV	461	4696	0.25%	0.007%
261	14.576	14.562	14.588	VV	465	6535	0.35%	0.009%
262	14.597	14.588	14.602	VV	506	3977	0.21%	0.006%
263	14.617	14.602	14.646	VV	502	11243	0.60%	0.016%
264	14.655	14.646	14.667	VV	396	4591	0.24%	0.006%
265	14.672	14.667	14.677	VV	312	1732	0.09%	0.002%
266	14.700	14.677	14.743	VV	716	20042	1.06%	0.028%
267	14.749	14.743	14.752	VV	416	2098	0.11%	0.003%
268	14.770	14.752	14.782	VV	586	8825	0.47%	0.012%
269	14.803	14.782	14.810	VV	607	8623	0.46%	0.012%
270	14.822	14.810	14.839	VV	720	10135	0.54%	0.014%
271	14.859	14.839	14.882	VV	907	16342	0.87%	0.023%
272	14.891	14.882	14.912	VV	465	6365	0.34%	0.009%
273	14.926	14.912	14.939	VV	308	3649	0.19%	0.005%
274	14.963	14.939	14.968	VV	372	4874	0.26%	0.007%
275	14.977	14.968	15.005	VV	468	8235	0.44%	0.012%
276	15.039	15.005	15.073	VV	11969	162793	8.64%	0.230%
277	15.086	15.073	15.102	VV	294	3856	0.20%	0.005%
278	15.123	15.102	15.134	VV	314	4716	0.25%	0.007%
279	15.144	15.134	15.152	VV	313	2830	0.15%	0.004%
280	15.169	15.152	15.189	VV	800	11359	0.60%	0.016%
281	15.209	15.189	15.231	VV	1012	17092	0.91%	0.024%
282	15.245	15.231	15.264	VV	673	9889	0.52%	0.014%
283	15.287	15.264	15.312	VV	834	14354	0.76%	0.020%
284	15.329	15.312	15.350	VV	448	7589	0.40%	0.011%
285	15.357	15.350	15.361	VV	316	1769	0.09%	0.002%
286	15.366	15.361	15.375	VV	295	2123	0.11%	0.003%
287	15.380	15.375	15.389	VV	352	2275	0.12%	0.003%
288	15.394	15.389	15.416	VV	228	3123	0.17%	0.004%
289	15.420	15.416	15.436	VV	193	1790	0.10%	0.003%
290	15.443	15.436	15.448	VV	176	983	0.05%	0.001%
291	15.478	15.448	15.499	VV	324	6614	0.35%	0.009%
292	15.503	15.499	15.511	VV	217	1148	0.06%	0.002%
293	15.515	15.511	15.567	VV	164	3581	0.19%	0.005%
294	15.574	15.567	15.579	VV	143	807	0.04%	0.001%
295	15.584	15.579	15.592	VV	131	901	0.05%	0.001%
296	15.623	15.592	15.661	VV	2883	48383	2.57%	0.068%
297	15.666	15.661	15.702	VV	530	8911	0.47%	0.013%
298	15.708	15.702	15.733	VV	214	3245	0.17%	0.005%
299	15.737	15.733	15.741	VV	165	663	0.04%	0.001%

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-10

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

300	15.764	15.741	15.788	VV	565	9231	0.49%	0.013%
301	15.793	15.788	15.810	VV	190	2046		
302	15.838	15.810	15.870	VV	1027	17062		
303	15.880	15.870	15.905	VV	218	3302		
304	15.911	15.905	15.920	VV	113	778		
305	15.926	15.920	15.942	VV	131	1021		
306	15.949	15.942	15.963	VV	138	1035	0.05%	0.001%
307	15.990	15.963	16.001	VV	234	3638	0.19%	0.005%
308	16.009	16.001	16.014	VV	220	1582	0.08%	0.002%
309	16.017	16.014	16.027	VV	210	1082	0.06%	0.002%
310	16.039	16.027	16.057	VV	193	2576	0.14%	0.004%
311	16.080	16.057	16.117	VV	232	5566	0.30%	0.008%
312	16.141	16.117	16.149	VV	168	2310	0.12%	0.003%
313	16.151	16.149	16.159	VV	148	724	0.04%	0.001%
314	16.182	16.159	16.199	VV	159	2422	0.13%	0.003%
315	16.215	16.199	16.220	PV	155	1093	0.06%	0.002%
316	16.225	16.220	16.241	VV	177	1431	0.08%	0.002%
317	16.265	16.241	16.297	VV	478	8565	0.45%	0.012%
318	16.302	16.297	16.307	VV	95	413	0.02%	0.001%
319	16.324	16.307	16.354	VV	238	3103	0.16%	0.004%
320	16.357	16.354	16.360	VV	62	157	0.01%	0.000%
321	16.368	16.360	16.386	VV	93	790	0.04%	0.001%
322	16.391	16.386	16.395	PV	75	258	0.01%	0.000%
323	16.418	16.395	16.424	VV	188	2019	0.11%	0.003%
324	16.445	16.424	16.465	VV	246	4244	0.23%	0.006%
325	16.470	16.465	16.505	VV	228	2918	0.15%	0.004%
326	16.512	16.505	16.530	VV	95	1043	0.06%	0.001%
327	16.557	16.530	16.579	VV	240	3415	0.18%	0.005%
328	16.587	16.579	16.615	VV	171	2209	0.12%	0.003%
329	16.642	16.615	16.677	VV	329	6682	0.35%	0.009%
330	16.731	16.677	16.742	PV	971	16030	0.85%	0.023%
331	16.750	16.742	16.783	VV	867	11812	0.63%	0.017%
332	16.805	16.783	16.809	VV	192	1977	0.10%	0.003%
333	16.826	16.809	16.845	VV	273	4119	0.22%	0.006%
334	16.862	16.845	16.890	VV	319	4477	0.24%	0.006%
335	16.897	16.890	16.918	VV	146	1743	0.09%	0.002%
336	16.923	16.918	16.932	VV	144	636	0.03%	0.001%
337	16.938	16.932	16.956	VV	75	787	0.04%	0.001%
338	16.986	16.956	17.001	VV	150	2426	0.13%	0.003%
339	17.006	17.001	17.010	VV	82	305	0.02%	0.000%
340	17.046	17.010	17.080	VV	655	11705	0.62%	0.017%
341	17.108	17.080	17.152	VV	773	11961	0.63%	0.017%
342	17.179	17.152	17.190	PV	329	4384	0.23%	0.006%
343	17.214	17.190	17.245	VV	826	13656	0.72%	0.019%
344	17.269	17.245	17.311	VV	510	7949	0.42%	0.011%
345	17.318	17.311	17.331	VV	85	599	0.03%	0.001%
346	17.336	17.331	17.350	VBA	74	567	0.03%	0.001%
Sum of corrected areas:						70846840		

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-10

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-11		SDG No.:	P4839	
Lab Sample ID:	P4839-03		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	86.4	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
FG014849.D	10	11/14/24 13:15	11/18/24 13:53	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	102000		2140	19300	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.22		37 - 130	61%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014849.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 13:53
Operator : YP\AJ
Sample : P4839-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-11

Integration File: autoint1.e
Quant Time: Nov 19 01:31:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.039	137094	1.222 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

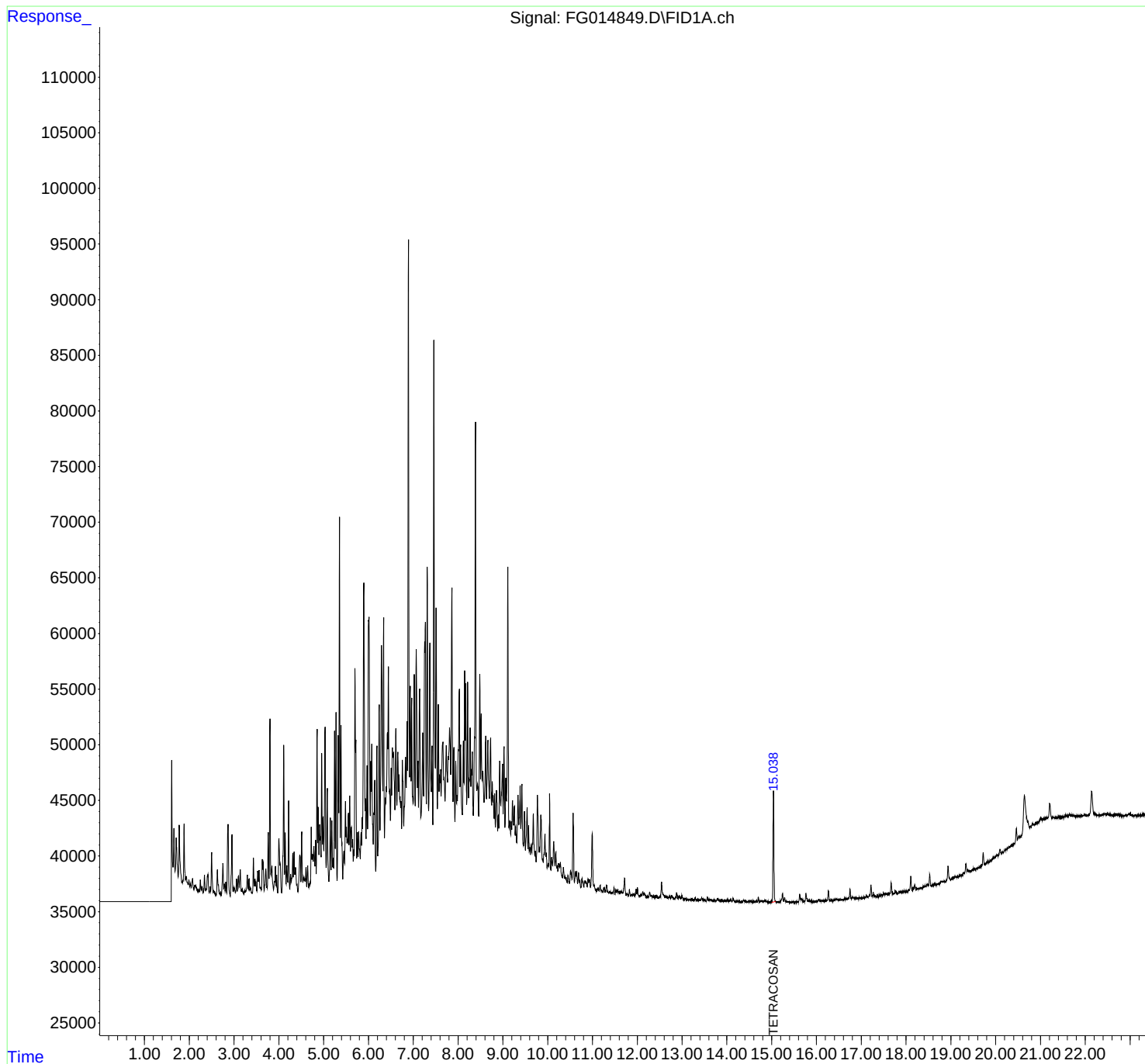
(m)=manual int.

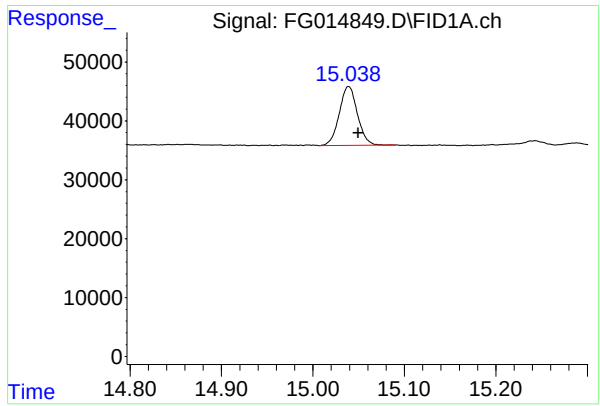
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014849.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 13:53
Operator : YP\AJ
Sample : P4839-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-11

Integration File: autoint1.e
Quant Time: Nov 19 01:31:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.039 min
Delta R.T.: -0.011 min
Response: 137094
Conc: 1.22 ug/ml

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-11

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014849.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 13:53
Sample : P4839-03 10X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.467	4.420	4.492	BV	3254	68487	8.26%	0.205%
2	4.509	4.492	4.537	VV	5333	68184	8.22%	0.204%
3	4.553	4.537	4.567	VV	1270	19467	2.35%	0.058%
4	4.580	4.567	4.590	VV	1113	14054	1.70%	0.042%
5	4.605	4.590	4.622	VV	2142	24925	3.01%	0.075%
6	4.643	4.622	4.666	VV	2299	32133	3.88%	0.096%
7	4.677	4.666	4.688	VV	712	7373	0.89%	0.022%
8	4.700	4.688	4.704	VV	830	6981	0.84%	0.021%
9	4.724	4.704	4.737	VV	5796	64270	7.75%	0.192%
10	4.752	4.737	4.768	VV	3332	58074	7.01%	0.174%
11	4.782	4.768	4.804	VV	4061	68294	8.24%	0.204%
12	4.821	4.804	4.835	VV	4606	60833	7.34%	0.182%
13	4.853	4.835	4.867	VV	14575	154787	18.67%	0.463%
14	4.878	4.867	4.896	VV	7582	94716	11.43%	0.283%
15	4.913	4.896	4.926	VV	6032	88335	10.66%	0.264%
16	4.930	4.926	4.941	VV	4812	39962	4.82%	0.119%
17	4.957	4.941	4.973	VV	12417	145705	17.58%	0.436%
18	4.987	4.973	5.002	VV	6742	90716	10.94%	0.271%
19	5.032	5.002	5.056	VV	14820	251083	30.29%	0.751%
20	5.080	5.056	5.118	VV	9290	150433	18.15%	0.450%
21	5.149	5.118	5.166	VV	6647	94791	11.43%	0.283%
22	5.183	5.166	5.204	VV	6407	94372	11.38%	0.282%
23	5.214	5.204	5.224	VV	3041	32708	3.95%	0.098%
24	5.245	5.224	5.260	VV	14453	168590	20.34%	0.504%
25	5.277	5.260	5.300	VV	16135	191500	23.10%	0.573%
26	5.324	5.300	5.337	VV	14078	170278	20.54%	0.509%
27	5.354	5.337	5.372	VV	33677	369951	44.63%	1.106%
28	5.388	5.372	5.428	VV	14992	222792	26.87%	0.666%
29	5.452	5.428	5.468	VV	3715	68633	8.28%	0.205%
30	5.487	5.468	5.501	VV	8205	114512	13.81%	0.342%
31	5.509	5.501	5.522	VV	5842	66186	7.98%	0.198%
32	5.529	5.522	5.535	VV	4723	36614	4.42%	0.109%
33	5.552	5.535	5.566	VV	7126	105608	12.74%	0.316%
34	5.582	5.566	5.598	VV	8688	122994	14.84%	0.368%
35	5.619	5.598	5.638	VV	5874	122760	14.81%	0.367%
36	5.647	5.638	5.662	VV	4780	55368	6.68%	0.166%

rteres								
37	5.675	5.662	5.682	VV	3858	41885	5.05%	0.125%
38	5.700	5.682	5.713	VV	20142	232199	28.01%	0.694%
39	5.718	5.713	5.739	VV	13722	144085	17.38%	0.431%
40	5.753	5.739	5.768	VV	5394	73802	8.90%	0.221%
41	5.783	5.768	5.798	VV	5484	79999	9.65%	0.239%
42	5.801	5.798	5.817	VV	3909	40695	4.91%	0.122%
43	5.835	5.817	5.846	VV	5407	76355	9.21%	0.228%
44	5.859	5.846	5.868	VV	6758	77297	9.32%	0.231%
45	5.896	5.868	5.924	VV	27851	534921	64.52%	1.599%
46	5.932	5.924	5.945	VV	8476	90181	10.88%	0.270%
47	5.970	5.945	5.983	VV	11452	178118	21.49%	0.533%
48	6.012	5.983	6.041	VV	24795	592906	71.52%	1.773%
49	6.053	6.041	6.063	VV	11842	129200	15.58%	0.386%
50	6.075	6.063	6.107	VV	13400	229546	27.69%	0.686%
51	6.122	6.107	6.127	VV	7221	74163	8.95%	0.222%
52	6.139	6.127	6.163	VV	10154	135203	16.31%	0.404%
53	6.188	6.163	6.207	VV	13228	177620	21.43%	0.531%
54	6.240	6.207	6.259	VV	16936	273775	33.02%	0.819%
55	6.291	6.259	6.323	VV	22207	538798	64.99%	1.611%
56	6.338	6.323	6.358	VV	24765	310024	37.40%	0.927%
57	6.379	6.358	6.387	VV	8601	127407	15.37%	0.381%
58	6.398	6.387	6.404	VV	9593	93805	11.32%	0.280%
59	6.423	6.404	6.433	VV	14451	218137	26.31%	0.652%
60	6.446	6.433	6.492	VV	20354	418515	50.48%	1.251%
61	6.507	6.492	6.518	VV	11267	145360	17.53%	0.435%
62	6.534	6.518	6.544	VV	13100	182794	22.05%	0.547%
63	6.548	6.544	6.555	VV	12507	78463	9.46%	0.235%
64	6.561	6.555	6.592	VV	12730	235203	28.37%	0.703%
65	6.612	6.592	6.636	VV	14851	289363	34.90%	0.865%
66	6.655	6.636	6.674	VV	12736	239897	28.94%	0.717%
67	6.683	6.674	6.699	VV	10695	146888	17.72%	0.439%
68	6.707	6.699	6.720	VV	8746	106434	12.84%	0.318%
69	6.729	6.720	6.742	VV	8287	96861	11.68%	0.290%
70	6.758	6.742	6.789	VV	12006	257298	31.04%	0.769%
71	6.802	6.789	6.807	VV	7888	78872	9.51%	0.236%
72	6.828	6.807	6.843	VV	12275	226841	27.36%	0.678%
73	6.863	6.843	6.874	VV	15496	230598	27.82%	0.689%
74	6.892	6.874	6.917	VV	58794	769469	92.82%	2.301%
75	6.932	6.917	6.952	VV	18691	307207	37.06%	0.918%
76	6.966	6.952	6.996	VV	17622	306361	36.95%	0.916%
77	7.023	6.996	7.044	VV	19739	359268	43.34%	1.074%
78	7.068	7.044	7.094	VV	21995	451898	54.51%	1.351%
79	7.105	7.094	7.118	VV	11978	144081	17.38%	0.431%
80	7.143	7.118	7.170	VV	18473	394230	47.55%	1.179%
81	7.211	7.170	7.230	VV	14527	357603	43.14%	1.069%
82	7.255	7.230	7.261	VV	22681	303432	36.60%	0.907%
83	7.271	7.261	7.292	VV	24500	329609	39.76%	0.985%
84	7.313	7.292	7.344	VV	29439	488908	58.97%	1.462%
85	7.371	7.344	7.402	VV	22550	468128	56.47%	1.400%
86	7.418	7.402	7.438	VV	13348	221939	26.77%	0.664%
87	7.461	7.438	7.494	VV	49848	758626	91.51%	2.268%
88	7.511	7.494	7.540	VV	25777	448886	54.15%	1.342%
89	7.561	7.540	7.578	VV	17120	278119	33.55%	0.832%

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90	7.589	7.578	7.597	VV	10771	117988	14.23%	0.353%
91	7.607	7.597	7.623	VV	11280	161886	19.53%	0.484%
92	7.662	7.623	7.683	VV	13700	427959	51.62%	1.280%
93	7.688	7.683	7.711	VV	10430	158313	19.10%	0.473%
94	7.739	7.711	7.764	VV	13447	360945	43.54%	1.079%
95	7.780	7.764	7.786	VV	12439	148046	17.86%	0.443%
96	7.811	7.786	7.837	VV	15043	405919	48.96%	1.214%
97	7.863	7.837	7.889	VV	27612	539721	65.10%	1.614%
98	7.907	7.889	7.931	VV	13283	258031	31.13%	0.771%
99	7.950	7.931	7.970	VV	12041	219452	26.47%	0.656%
100	7.978	7.970	7.987	VV	8930	88186	10.64%	0.264%
101	8.029	7.987	8.044	VV	18492	463550	55.92%	1.386%
102	8.057	8.044	8.097	VV	13527	311995	37.63%	0.933%
103	8.119	8.097	8.132	VV	13876	225023	27.14%	0.673%
104	8.149	8.132	8.162	VV	20207	282269	34.05%	0.844%
105	8.173	8.162	8.193	VV	19054	263411	31.77%	0.788%
106	8.216	8.193	8.236	VV	19152	328791	39.66%	0.983%
107	8.270	8.236	8.288	VV	15082	358731	43.27%	1.073%
108	8.299	8.288	8.306	VV	11352	119046	14.36%	0.356%
109	8.318	8.306	8.340	VV	12926	213298	25.73%	0.638%
110	8.389	8.340	8.419	VV	42606	829015	100.00%	2.479%
111	8.437	8.419	8.461	VV	10057	231603	27.94%	0.692%
112	8.487	8.461	8.503	VV	19928	346565	41.80%	1.036%
113	8.516	8.503	8.538	VV	16381	270805	32.67%	0.810%
114	8.553	8.538	8.581	VV	11227	263358	31.77%	0.787%
115	8.617	8.581	8.636	VV	14380	351304	42.38%	1.050%
116	8.666	8.636	8.700	VV	14024	419574	50.61%	1.254%
117	8.727	8.700	8.749	VV	14242	325519	39.27%	0.973%
118	8.765	8.749	8.778	VV	10289	161147	19.44%	0.482%
119	8.785	8.778	8.803	VV	9060	126491	15.26%	0.378%
120	8.818	8.803	8.835	VV	9220	147920	17.84%	0.442%
121	8.859	8.835	8.886	VV	9509	238855	28.81%	0.714%
122	8.900	8.886	8.911	VV	7274	102072	12.31%	0.305%
123	8.929	8.911	8.956	VV	12153	244676	29.51%	0.732%
124	8.993	8.956	9.008	VV	11904	304114	36.68%	0.909%
125	9.027	9.008	9.048	VV	13454	240311	28.99%	0.718%
126	9.066	9.048	9.080	VV	10658	172899	20.86%	0.517%
127	9.112	9.080	9.138	VV	29577	504996	60.92%	1.510%
128	9.161	9.138	9.176	VV	6813	145440	17.54%	0.435%
129	9.191	9.176	9.200	VV	6749	90960	10.97%	0.272%
130	9.217	9.200	9.238	VV	8653	167022	20.15%	0.499%
131	9.257	9.238	9.276	VV	8149	160001	19.30%	0.478%
132	9.288	9.276	9.309	VV	6270	113531	13.69%	0.339%
133	9.340	9.309	9.357	VV	9143	200457	24.18%	0.599%
134	9.385	9.357	9.402	VV	10015	211102	25.46%	0.631%
135	9.426	9.402	9.465	VV	10153	252076	30.41%	0.754%
136	9.484	9.465	9.505	VV	7701	146275	17.64%	0.437%
137	9.542	9.505	9.562	VV	7993	199300	24.04%	0.596%
138	9.576	9.562	9.591	VV	6453	91313	11.01%	0.273%
139	9.601	9.591	9.613	VV	4430	55878	6.74%	0.167%
140	9.631	9.613	9.648	VV	4721	88496	10.67%	0.265%
141	9.662	9.648	9.666	VV	4861	48842	5.89%	0.146%

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142	9.681	9.666	9.714	VV	7515	156976	18.94%	0.469%
143	9.726	9.714	9.743	VV	4151	65827	7.94%	0.197%
144	9.773	9.743	9.809	VV	9187	233770	28.20%	0.699%
145	9.819	9.809	9.826	VV	4376	43269	5.22%	0.129%
146	9.849	9.826	9.885	VV	7427	190569	22.99%	0.570%
147	9.890	9.885	9.900	VV	3386	31235	3.77%	0.093%
148	9.940	9.900	9.960	VV	5695	150201	18.12%	0.449%
149	9.969	9.960	9.988	VV	4009	59988	7.24%	0.179%
150	10.011	9.988	10.024	VV	3045	61656	7.44%	0.184%
151	10.045	10.024	10.072	VV	9342	142981	17.25%	0.427%
152	10.092	10.072	10.112	VV	3667	74261	8.96%	0.222%
153	10.136	10.112	10.166	VV	5063	125848	15.18%	0.376%
154	10.183	10.166	10.202	VV	4103	74361	8.97%	0.222%
155	10.211	10.202	10.227	VV	2886	40402	4.87%	0.121%
156	10.248	10.227	10.271	VV	3072	73511	8.87%	0.220%
157	10.285	10.271	10.335	VV	3219	91508	11.04%	0.274%
158	10.353	10.335	10.380	VV	2772	61011	7.36%	0.182%
159	10.390	10.380	10.408	VV	1951	30943	3.73%	0.093%
160	10.414	10.408	10.438	VV	1849	28552	3.44%	0.085%
161	10.455	10.438	10.489	VV	1994	49507	5.97%	0.148%
162	10.511	10.489	10.525	VV	2461	42836	5.17%	0.128%
163	10.527	10.525	10.541	VV	2203	20037	2.42%	0.060%
164	10.570	10.541	10.597	VV	7653	132487	15.98%	0.396%
165	10.620	10.597	10.631	VV	2406	40689	4.91%	0.122%
166	10.647	10.631	10.668	VV	2425	43857	5.29%	0.131%
167	10.690	10.668	10.710	VV	2274	43864	5.29%	0.131%
168	10.718	10.710	10.741	VV	1624	24761	2.99%	0.074%
169	10.766	10.741	10.808	VV	1808	55781	6.73%	0.167%
170	10.828	10.808	10.842	VV	1595	28411	3.43%	0.085%
171	10.855	10.842	10.883	VV	1543	33814	4.08%	0.101%
172	10.902	10.883	10.918	VV	1768	30833	3.72%	0.092%
173	10.936	10.918	10.958	VV	1713	33953	4.10%	0.102%
174	10.995	10.958	11.028	VV	5840	114622	13.83%	0.343%
175	11.039	11.028	11.090	VV	1258	35100	4.23%	0.105%
176	11.109	11.090	11.120	VV	890	15038	1.81%	0.045%
177	11.132	11.120	11.148	VV	966	14290	1.72%	0.043%
178	11.174	11.148	11.190	VV	1249	24266	2.93%	0.073%
179	11.194	11.190	11.219	VV	842	12852	1.55%	0.038%
180	11.254	11.219	11.284	VV	1047	31553	3.81%	0.094%
181	11.318	11.284	11.362	VV	1251	38872	4.69%	0.116%
182	11.390	11.362	11.393	VV	673	11470	1.38%	0.034%
183	11.398	11.393	11.424	VV	705	10870	1.31%	0.032%
184	11.445	11.424	11.449	VV	650	8528	1.03%	0.025%
185	11.454	11.449	11.460	VV	668	3870	0.47%	0.012%
186	11.483	11.460	11.506	VV	1019	20203	2.44%	0.060%
187	11.529	11.506	11.546	VV	834	16777	2.02%	0.050%
188	11.564	11.546	11.612	VV	871	27290	3.29%	0.082%
189	11.624	11.612	11.637	VV	754	9936	1.20%	0.030%
190	11.653	11.637	11.676	VV	726	14914	1.80%	0.045%
191	11.718	11.676	11.746	VV	1920	44401	5.36%	0.133%
192	11.770	11.746	11.799	VV	571	15031	1.81%	0.045%
193	11.826	11.799	11.853	VV	953	17427	2.10%	0.052%
194	11.870	11.853	11.889	VV	485	9093	1.10%	0.027%

					rteres			
195	11.894	11.889	11.900	VV	444	2755	0.33%	0.008%
196	11.906	11.900	11.929	VV	528	8325	1.00%	0.025%
197	11.935	11.929	11.951	VV	531	5575	0.67%	0.017%
198	11.976	11.951	11.990	VV	969	15813	1.91%	0.047%
199	12.006	11.990	12.048	VV	1117	21588	2.60%	0.065%
200	12.072	12.048	12.082	VV	468	7993	0.96%	0.024%
201	12.084	12.082	12.096	VV	478	3589	0.43%	0.011%
202	12.124	12.096	12.140	VV	726	14716	1.78%	0.044%
203	12.153	12.140	12.212	VV	665	18598	2.24%	0.056%
204	12.231	12.212	12.252	VV	410	7252	0.87%	0.022%
205	12.275	12.252	12.300	VV	727	14534	1.75%	0.043%
206	12.301	12.300	12.305	VV	403	1299	0.16%	0.004%
207	12.313	12.305	12.333	VV	438	6323	0.76%	0.019%
208	12.341	12.333	12.347	VV	389	2871	0.35%	0.009%
209	12.383	12.347	12.406	VV	405	11521	1.39%	0.034%
210	12.422	12.406	12.464	VV	419	11412	1.38%	0.034%
211	12.474	12.464	12.493	VV	320	4711	0.57%	0.014%
212	12.511	12.493	12.523	VV	454	6210	0.75%	0.019%
213	12.541	12.523	12.610	VV	1683	40090	4.84%	0.120%
214	12.629	12.610	12.644	VV	411	7109	0.86%	0.021%
215	12.656	12.644	12.669	VV	403	5066	0.61%	0.015%
216	12.675	12.669	12.689	VV	360	3476	0.42%	0.010%
217	12.697	12.689	12.705	VV	311	2606	0.31%	0.008%
218	12.726	12.705	12.750	VV	423	8534	1.03%	0.026%
219	12.770	12.750	12.831	VV	474	14289	1.72%	0.043%
220	12.836	12.831	12.840	VV	216	1058	0.13%	0.003%
221	12.877	12.840	12.896	VV	753	14656	1.77%	0.044%
222	12.907	12.896	12.926	VV	389	5613	0.68%	0.017%
223	12.940	12.926	12.975	VV	481	9652	1.16%	0.029%
224	12.995	12.975	13.053	VV	510	13209	1.59%	0.039%
225	13.061	13.053	13.073	VV	238	2361	0.28%	0.007%
226	13.083	13.073	13.112	VV	246	3883	0.47%	0.012%
227	13.120	13.112	13.131	VV	175	1577	0.19%	0.005%
228	13.136	13.131	13.144	VV	129	844	0.10%	0.003%
229	13.159	13.144	13.165	VV	188	1921	0.23%	0.006%
230	13.171	13.165	13.176	VV	171	923	0.11%	0.003%
231	13.188	13.176	13.203	VV	186	2382	0.29%	0.007%
232	13.215	13.203	13.224	VV	274	2575	0.31%	0.008%
233	13.228	13.224	13.246	VV	184	1837	0.22%	0.005%
234	13.257	13.246	13.274	VV	196	1915	0.23%	0.006%
235	13.293	13.274	13.323	VV	360	5899	0.71%	0.018%
236	13.326	13.323	13.333	VV	130	555	0.07%	0.002%
237	13.350	13.333	13.355	VV	204	1775	0.21%	0.005%
238	13.358	13.355	13.373	VV	165	1386	0.17%	0.004%
239	13.391	13.373	13.397	VV	178	1831	0.22%	0.005%
240	13.402	13.397	13.415	VV	163	1392	0.17%	0.004%
241	13.439	13.415	13.467	VV	338	6745	0.81%	0.020%
242	13.485	13.467	13.490	VV	197	2140	0.26%	0.006%
243	13.496	13.490	13.533	VV	175	3003	0.36%	0.009%
244	13.574	13.533	13.600	VV	381	8087	0.98%	0.024%
245	13.626	13.600	13.638	VV	275	4216	0.51%	0.013%
246	13.641	13.638	13.650	VV	195	1059	0.13%	0.003%

					rteres			
247	13.652	13.650	13.661	VV	142	881	0.11%	0.003%
248	13.686	13.661	13.698	VV	161	2678	0.32%	0.008%
249	13.701	13.698	13.705	VV	99	337	0.04%	0.001%
250	13.722	13.705	13.726	VV	196	1637	0.20%	0.005%
251	13.730	13.726	13.745	VV	196	1524	0.18%	0.005%
252	13.761	13.745	13.766	VV	170	1548	0.19%	0.005%
253	13.790	13.766	13.795	VV	282	3719	0.45%	0.011%
254	13.798	13.795	13.827	VV	289	3722	0.45%	0.011%
255	13.833	13.827	13.863	VV	171	2774	0.33%	0.008%
256	13.870	13.863	13.878	VV	165	1136	0.14%	0.003%
257	13.883	13.878	13.892	VV	182	1325	0.16%	0.004%
258	13.894	13.892	13.904	VV	164	841	0.10%	0.003%
259	13.910	13.904	13.921	VV	137	1107	0.13%	0.003%
260	13.954	13.921	13.972	VV	225	4490	0.54%	0.013%
261	13.978	13.972	13.988	VV	166	1225	0.15%	0.004%
262	14.004	13.988	14.025	VV	199	3604	0.43%	0.011%
263	14.031	14.025	14.044	VV	201	1806	0.22%	0.005%
264	14.048	14.044	14.057	VV	174	1041	0.13%	0.003%
265	14.089	14.057	14.107	VV	335	5092	0.61%	0.015%
266	14.113	14.107	14.117	VV	144	562	0.07%	0.002%
267	14.137	14.117	14.181	VV	396	7630	0.92%	0.023%
268	14.187	14.181	14.191	VV	113	470	0.06%	0.001%
269	14.196	14.191	14.200	VV	146	601	0.07%	0.002%
270	14.204	14.200	14.226	VV	126	1394	0.17%	0.004%
271	14.239	14.226	14.245	VV	155	1379	0.17%	0.004%
272	14.250	14.245	14.264	VV	130	1008	0.12%	0.003%
273	14.272	14.264	14.288	VV	130	961	0.12%	0.003%
274	14.293	14.288	14.298	PV	72	398	0.05%	0.001%
275	14.313	14.298	14.323	VV	86	842	0.10%	0.003%
276	14.345	14.323	14.351	VV	114	1157	0.14%	0.003%
277	14.357	14.351	14.359	VV	178	677	0.08%	0.002%
278	14.383	14.359	14.403	VV	206	4206	0.51%	0.013%
279	14.409	14.403	14.426	VV	264	1765	0.21%	0.005%
280	14.431	14.426	14.462	VV	132	1799	0.22%	0.005%
281	14.502	14.462	14.510	VV	176	2859	0.34%	0.009%
282	14.515	14.510	14.528	VV	150	1283	0.15%	0.004%
283	14.536	14.528	14.565	VV	172	2781	0.34%	0.008%
284	14.580	14.565	14.588	VV	142	1220	0.15%	0.004%
285	14.606	14.588	14.616	VV	121	1357	0.16%	0.004%
286	14.621	14.616	14.626	VV	96	488	0.06%	0.001%
287	14.632	14.626	14.638	VV	92	521	0.06%	0.002%
288	14.657	14.638	14.670	VV	125	1516	0.18%	0.005%
289	14.674	14.670	14.678	VV	114	359	0.04%	0.001%
290	14.702	14.678	14.725	VV	499	6833	0.82%	0.020%
291	14.752	14.725	14.758	VV	131	2023	0.24%	0.006%
292	14.764	14.758	14.778	VV	207	2020	0.24%	0.006%
293	14.784	14.778	14.793	VV	180	1279	0.15%	0.004%
294	14.798	14.793	14.809	VV	167	1239	0.15%	0.004%
295	14.816	14.809	14.821	VV	141	899	0.11%	0.003%
296	14.826	14.821	14.831	VV	162	871	0.11%	0.003%
297	14.861	14.831	14.883	VV	222	5276	0.64%	0.016%
298	14.887	14.883	14.915	VV	137	1683	0.20%	0.005%
299	14.918	14.915	14.930	VV	87	601	0.07%	0.002%

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300	14.937	14.930	14.963	VV	76	874	0.11%	0.003%
301	14.968	14.963	14.989	PV	97	1078	0.13%	0.003%
302	14.994	14.989	15.008	VV	130	829	0.10%	0.002%
303	15.039	15.008	15.109	VV	10051	141797	17.10%	0.424%
304	15.113	15.109	15.120	VV	59	274	0.03%	0.001%
305	15.138	15.120	15.161	VV	139	1688	0.20%	0.005%
306	15.168	15.161	15.182	PV	88	737	0.09%	0.002%
307	15.196	15.182	15.201	VV	185	1292	0.16%	0.004%
308	15.243	15.201	15.266	VV	845	16077	1.94%	0.048%
309	15.288	15.266	15.327	VV	466	8278	1.00%	0.025%
310	15.333	15.327	15.340	VV	131	829	0.10%	0.002%
311	15.344	15.340	15.352	VV	97	577	0.07%	0.002%
312	15.358	15.352	15.363	VV	85	489	0.06%	0.001%
313	15.372	15.363	15.381	VV	106	777	0.09%	0.002%
314	15.387	15.381	15.395	VV	101	603	0.07%	0.002%
315	15.407	15.395	15.428	VV	92	1022	0.12%	0.003%
316	15.434	15.428	15.441	VV	78	375	0.05%	0.001%
317	15.448	15.441	15.461	PV	44	432	0.05%	0.001%
318	15.467	15.461	15.472	VV	106	427	0.05%	0.001%
319	15.476	15.472	15.502	VV	88	934	0.11%	0.003%
320	15.525	15.502	15.535	PV	64	591	0.07%	0.002%
321	15.540	15.535	15.551	VV	68	473	0.06%	0.001%
322	15.555	15.551	15.565	VV	74	243	0.03%	0.001%
323	15.573	15.565	15.586	VV	92	668	0.08%	0.002%
324	15.588	15.586	15.593	VV	66	143	0.02%	0.000%
325	15.624	15.593	15.648	VV	753	12575	1.52%	0.038%
326	15.661	15.648	15.690	VV	342	6956	0.84%	0.021%
327	15.694	15.690	15.716	VV	153	1887	0.23%	0.006%
328	15.723	15.716	15.730	VV	147	1010	0.12%	0.003%
329	15.763	15.730	15.805	VV	801	15361	1.85%	0.046%
330	15.808	15.805	15.814	VV	168	684	0.08%	0.002%
331	15.836	15.814	15.863	VV	288	5142	0.62%	0.015%
332	15.876	15.863	15.883	VV	153	1107	0.13%	0.003%
333	15.890	15.883	15.897	VV	108	727	0.09%	0.002%
334	15.900	15.897	15.909	VV	105	607	0.07%	0.002%
335	15.915	15.909	15.921	VV	100	576	0.07%	0.002%
336	15.928	15.921	15.933	VV	81	512	0.06%	0.002%
337	15.938	15.933	15.949	VV	77	488	0.06%	0.001%
338	15.956	15.949	15.967	PV	144	652	0.08%	0.002%
339	15.975	15.967	15.981	VV	80	506	0.06%	0.002%
340	15.987	15.981	15.991	VV	107	462	0.06%	0.001%
341	15.996	15.991	16.023	VV	98	1332	0.16%	0.004%
342	16.047	16.023	16.061	VV	224	3672	0.44%	0.011%
343	16.069	16.061	16.097	VV	157	2748	0.33%	0.008%
344	16.107	16.097	16.114	VV	113	824	0.10%	0.002%
345	16.127	16.114	16.137	VV	120	1343	0.16%	0.004%
346	16.145	16.137	16.155	VV	123	1000	0.12%	0.003%
347	16.177	16.155	16.186	VV	109	1640	0.20%	0.005%
348	16.196	16.186	16.213	VV	121	1188	0.14%	0.004%
349	16.219	16.213	16.236	VV	156	1644	0.20%	0.005%
350	16.265	16.236	16.293	VV	963	14151	1.71%	0.042%
351	16.297	16.293	16.302	VV	64	289	0.03%	0.001%

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352	16.323	16.302	16.338	VV	128	1629	0.20%	0.005%	
353	16.344	16.338	16.356	VV	125	659	0.08%	0.002%	
354	16.365	16.356	16.377	PV	84	616	0.07%	0.002%	
355	16.411	16.377	16.426	VV	171	3166	0.38%	0.009%	
356	16.450	16.426	16.457	VV	193	2399	0.29%	0.007%	
357	16.461	16.457	16.475	VV	109	881	0.11%	0.003%	
358	16.482	16.475	16.507	VV	93	996	0.12%	0.003%	
359	16.523	16.507	16.529	VV	107	823	0.10%	0.002%	
360	16.534	16.529	16.543	VV	57	309	0.04%	0.001%	
361	16.548	16.543	16.574	VV	80	995	0.12%	0.003%	
362	16.584	16.574	16.596	VV	81	666	0.08%	0.002%	
363	16.639	16.596	16.673	VV	140	3170	0.38%	0.009%	
364	16.676	16.673	16.686	VV	98	329	0.04%	0.001%	
365	16.708	16.686	16.721	VV	168	2025	0.24%	0.006%	
366	16.747	16.721	16.780	VV	966	14311	1.73%	0.043%	
367	16.797	16.780	16.805	VV	242	2381	0.29%	0.007%	
368	16.807	16.805	16.823	VV	189	2006	0.24%	0.006%	
369	16.828	16.823	16.853	VV	162	1945	0.23%	0.006%	
370	16.858	16.853	16.863	VV	112	443	0.05%	0.001%	
371	16.878	16.863	16.886	VV	132	1241	0.15%	0.004%	
372	16.891	16.886	16.904	VV	110	927	0.11%	0.003%	
373	16.908	16.904	16.915	VV	114	616	0.07%	0.002%	
374	16.921	16.915	16.927	VV	71	406	0.05%	0.001%	
375	16.939	16.927	16.946	PV	140	843	0.10%	0.003%	
376	16.952	16.946	16.966	VV	118	995	0.12%	0.003%	
377	16.973	16.966	16.983	VV	83	733	0.09%	0.002%	
378	16.986	16.983	16.995	VV	87	424	0.05%	0.001%	
379	16.997	16.995	17.001	VV	86	188	0.02%	0.001%	
380	17.007	17.001	17.016	PV	46	345	0.04%	0.001%	
381	17.020	17.016	17.026	VV	73	190	0.02%	0.001%	
382	17.032	17.026	17.049	VV	86	606	0.07%	0.002%	
383	17.055	17.049	17.081	VV	100	1046	0.13%	0.003%	
384	17.116	17.081	17.149	VV	212	4927	0.59%	0.015%	
385	17.178	17.149	17.190	VV	242	3705	0.45%	0.011%	
386	17.216	17.190	17.243	VV	1141	17048	2.06%	0.051%	
387	17.264	17.243	17.306	VV	465	5702	0.69%	0.017%	
388	17.311	17.306	17.338	VV	89	962	0.12%	0.003%	
					Sum of corrected areas:		33446755		

FG111324.M Tue Nov 19 02:31:42 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/13/24
Project:	North Point	Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-12	SDG No.:	P4839
Lab Sample ID:	P4839-04	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	87.3
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014807.D	1	11/14/24 13:15	11/15/24 18:58	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	23000		212	1910	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.0		37 - 130	60%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014807.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 18:58
Operator : YP\AJ
Sample : P4839-04
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-12

Integration File: autoint1.e
Quant Time: Nov 18 01:10:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.042	1342153	11.965 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

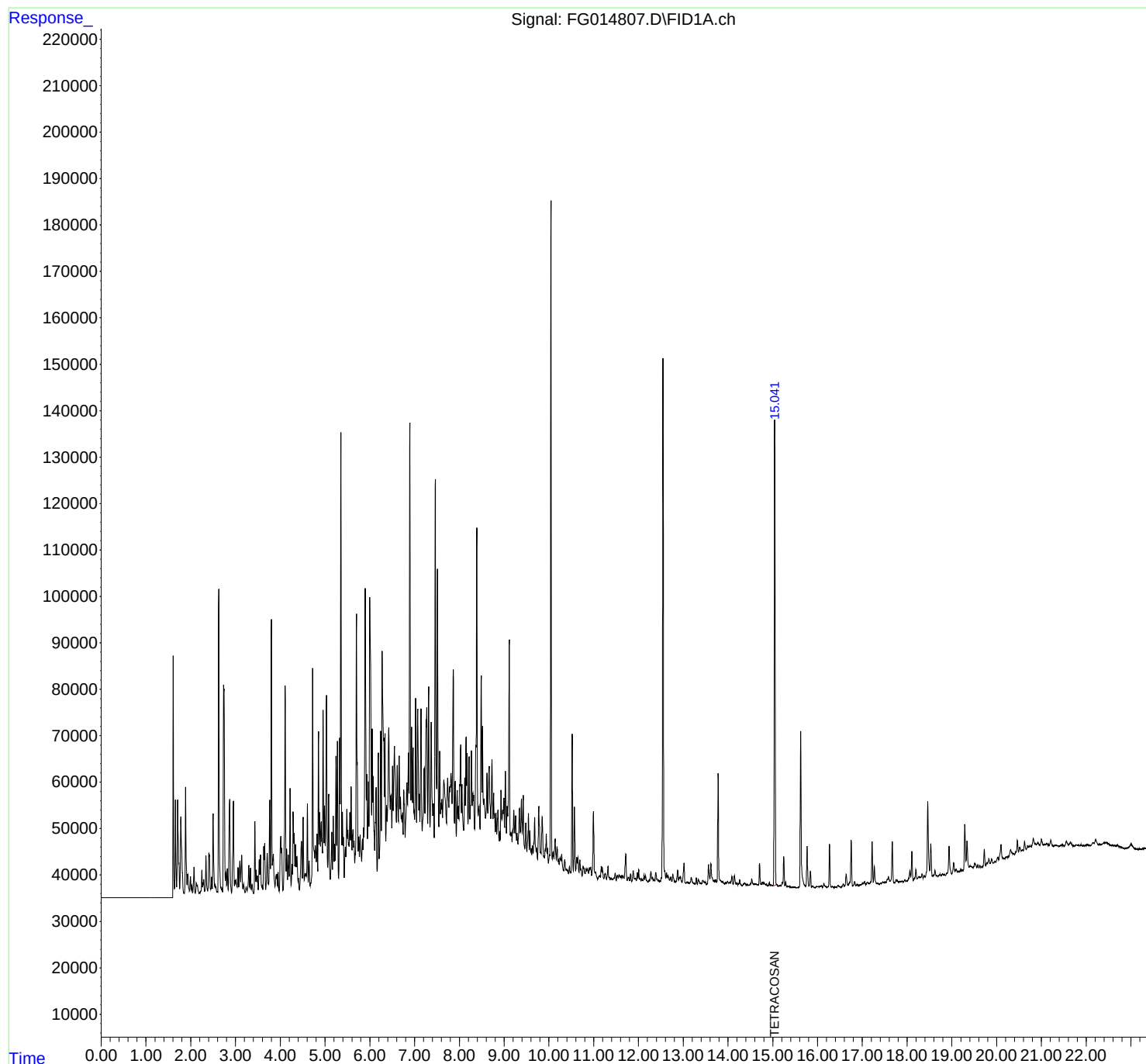
(m)=manual int.

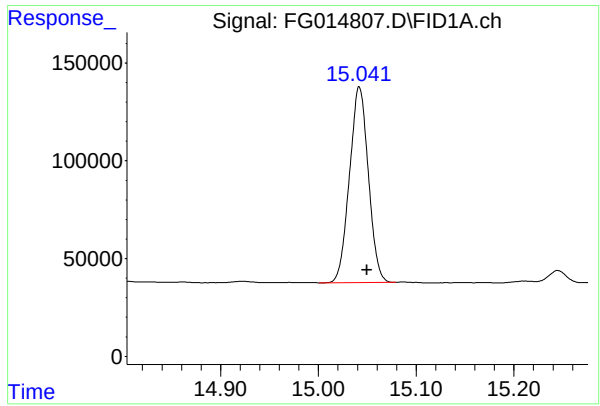
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014807.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 18:58
Operator : YP\AJ
Sample : P4839-04
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-12

Integration File: autoint1.e
Quant Time: Nov 18 01:10:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.042 min
Delta R.T.: -0.008 min
Response: 1342153
Conc: 11.97 ug/ml

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-12

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
 Data File : FG014807.D
 Signal(s) : FID1A.ch
 Acq On : 15 Nov 2024 18:58
 Sample : P4839-04
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.510	4.493	4.536	VV	16377	218248	13.23%	0.283%
2	4.555	4.536	4.570	VV	4211	74227	4.50%	0.096%
3	4.581	4.570	4.589	VV	4218	44561	2.70%	0.058%
4	4.607	4.589	4.625	VV	19286	213790	12.96%	0.277%
5	4.643	4.625	4.666	VV	6965	105129	6.37%	0.136%
6	4.678	4.666	4.687	VV	2212	25500	1.55%	0.033%
7	4.723	4.687	4.769	VV	48391	699550	42.41%	0.908%
8	4.784	4.769	4.805	VV	10252	189920	11.51%	0.246%
9	4.822	4.805	4.837	VV	12783	173146	10.50%	0.225%
10	4.854	4.837	4.868	VV	34765	375640	22.77%	0.487%
11	4.880	4.868	4.898	VV	17332	244117	14.80%	0.317%
12	4.914	4.898	4.941	VV	15399	312360	18.94%	0.405%
13	4.957	4.941	4.975	VV	39352	454076	27.53%	0.589%
14	4.989	4.975	5.005	VV	18791	258489	15.67%	0.335%
15	5.033	5.005	5.060	VV	42574	703750	42.67%	0.913%
16	5.081	5.060	5.118	VV	21315	336032	20.37%	0.436%
17	5.149	5.118	5.166	VV	13101	210142	12.74%	0.273%
18	5.184	5.166	5.203	VV	16568	240184	14.56%	0.312%
19	5.215	5.203	5.227	VV	10480	121382	7.36%	0.158%
20	5.246	5.227	5.261	VV	29477	369026	22.37%	0.479%
21	5.278	5.261	5.303	VV	32737	419559	25.44%	0.544%
22	5.327	5.303	5.338	VV	33347	377661	22.90%	0.490%
23	5.354	5.338	5.375	VV	99088	1075172	65.19%	1.395%
24	5.389	5.375	5.403	VV	17433	223325	13.54%	0.290%
25	5.411	5.403	5.428	VV	11956	131669	7.98%	0.171%
26	5.455	5.428	5.467	VV	9878	176972	10.73%	0.230%
27	5.488	5.467	5.502	VV	18050	280213	16.99%	0.364%
28	5.511	5.502	5.522	VV	13511	149874	9.09%	0.194%
29	5.528	5.522	5.536	VV	10707	85924	5.21%	0.112%
30	5.555	5.536	5.568	VV	17280	264220	16.02%	0.343%
31	5.583	5.568	5.601	VV	22857	319279	19.36%	0.414%
32	5.625	5.601	5.639	VV	13624	273526	16.58%	0.355%
33	5.648	5.639	5.664	VV	11130	135555	8.22%	0.176%
34	5.701	5.664	5.739	VV	59899	1049216	63.61%	1.362%
35	5.753	5.739	5.768	VV	12053	183849	11.15%	0.239%
36	5.784	5.768	5.818	VV	12413	281030	17.04%	0.365%

rteres								
37	5.836	5.818	5.847	VV	11567	167276	10.14%	0.217%
38	5.860	5.847	5.869	VV	13977	161158	9.77%	0.209%
39	5.897	5.869	5.923	VV	65454	1158415	70.23%	1.503%
40	5.932	5.923	5.948	VV	25472	285473	17.31%	0.370%
41	5.971	5.948	5.983	VV	23914	369992	22.43%	0.480%
42	5.999	5.983	6.041	VV	63581	1411970	85.61%	1.832%
43	6.055	6.041	6.066	VV	35268	400179	24.26%	0.519%
44	6.077	6.066	6.109	VV	25046	429971	26.07%	0.558%
45	6.141	6.109	6.164	VV	22644	456313	27.67%	0.592%
46	6.190	6.164	6.209	VV	30069	403285	24.45%	0.523%
47	6.243	6.209	6.259	VV	34722	556069	33.71%	0.722%
48	6.276	6.259	6.310	VV	52002	1113624	67.52%	1.445%
49	6.313	6.310	6.327	VV	33347	297643	18.05%	0.386%
50	6.340	6.327	6.358	VV	34285	437104	26.50%	0.567%
51	6.375	6.358	6.388	VV	18693	283641	17.20%	0.368%
52	6.423	6.388	6.456	VV	35403	983340	59.62%	1.276%
53	6.471	6.456	6.493	VV	20909	422488	25.62%	0.548%
54	6.509	6.493	6.521	VV	27150	348902	21.15%	0.453%
55	6.550	6.521	6.594	VV	31493	1027206	62.28%	1.333%
56	6.613	6.594	6.637	VV	27339	540105	32.75%	0.701%
57	6.656	6.637	6.676	VV	29371	525393	31.85%	0.682%
58	6.685	6.676	6.701	VV	20499	278149	16.86%	0.361%
59	6.708	6.701	6.720	VV	16551	178658	10.83%	0.232%
60	6.731	6.720	6.743	VV	17138	219356	13.30%	0.285%
61	6.760	6.743	6.790	VV	21984	486485	29.50%	0.631%
62	6.828	6.790	6.842	VV	23573	576926	34.98%	0.749%
63	6.864	6.842	6.875	VV	30014	488221	29.60%	0.634%
64	6.894	6.875	6.918	VV	101016	1364759	82.74%	1.771%
65	6.934	6.918	6.955	VV	35532	598291	36.27%	0.776%
66	6.967	6.955	7.002	VV	31127	605924	36.74%	0.786%
67	7.024	7.002	7.046	VV	41747	682349	41.37%	0.885%
68	7.069	7.046	7.096	VV	39449	834201	50.58%	1.083%
69	7.106	7.096	7.119	VV	21125	248825	15.09%	0.323%
70	7.145	7.119	7.171	VV	39553	787771	47.76%	1.022%
71	7.214	7.171	7.232	VV	26676	692095	41.96%	0.898%
72	7.258	7.232	7.263	VV	37096	512489	31.07%	0.665%
73	7.273	7.263	7.293	VV	39643	535637	32.48%	0.695%
74	7.314	7.293	7.346	VV	44191	822926	49.89%	1.068%
75	7.372	7.346	7.407	VV	36575	859982	52.14%	1.116%
76	7.421	7.407	7.439	VV	18996	315331	19.12%	0.409%
77	7.463	7.439	7.493	VV	88869	1341327	81.32%	1.741%
78	7.511	7.493	7.542	VV	69584	1079283	65.44%	1.401%
79	7.563	7.542	7.579	VV	30270	491863	29.82%	0.638%
80	7.590	7.579	7.599	VV	19145	217623	13.19%	0.282%
81	7.609	7.599	7.625	VV	19954	281333	17.06%	0.365%
82	7.654	7.625	7.712	VV	24068	1044772	63.34%	1.356%
83	7.739	7.712	7.766	VV	24451	660181	40.03%	0.857%
84	7.781	7.766	7.788	VV	22615	275833	16.72%	0.358%
85	7.814	7.788	7.839	VV	25503	694157	42.09%	0.901%
86	7.864	7.839	7.891	VV	47741	939298	56.95%	1.219%
87	7.909	7.891	7.933	VV	23786	464062	28.14%	0.602%
88	7.952	7.933	7.967	VV	21825	351856	21.33%	0.457%
89	7.979	7.967	7.990	VV	18368	234970	14.25%	0.305%

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90	8.007	7.990	8.012	VV	23063	263538	15.98%	0.342%
91	8.030	8.012	8.046	VV	31625	523896	31.76%	0.680%
92	8.059	8.046	8.098	VV	23127	536445	32.52%	0.696%
93	8.121	8.098	8.133	VV	24399	405489	24.58%	0.526%
94	8.150	8.133	8.164	VV	33347	486362	29.49%	0.631%
95	8.174	8.164	8.194	VV	29785	414039	25.10%	0.537%
96	8.218	8.194	8.236	VV	29078	531177	32.20%	0.689%
97	8.272	8.236	8.290	VV	30347	691482	41.92%	0.897%
98	8.301	8.290	8.312	VV	21113	272282	16.51%	0.353%
99	8.321	8.312	8.341	VV	20743	306087	18.56%	0.397%
100	8.390	8.341	8.419	VV	78265	1564926	94.88%	2.031%
101	8.440	8.419	8.463	VV	18323	443282	26.88%	0.575%
102	8.489	8.463	8.505	VV	46438	746394	45.25%	0.969%
103	8.518	8.505	8.541	VV	35611	558746	33.88%	0.725%
104	8.553	8.541	8.583	VV	19917	459630	27.87%	0.596%
105	8.619	8.583	8.635	VV	25425	598727	36.30%	0.777%
106	8.667	8.635	8.702	VV	26960	839640	50.91%	1.090%
107	8.730	8.702	8.750	VV	28349	607229	36.82%	0.788%
108	8.766	8.750	8.781	VV	21149	331947	20.13%	0.431%
109	8.788	8.781	8.804	VV	16792	217304	13.17%	0.282%
110	8.820	8.804	8.836	VV	16863	273012	16.55%	0.354%
111	8.863	8.836	8.889	VV	17549	465654	28.23%	0.604%
112	8.902	8.889	8.912	VV	12896	162941	9.88%	0.211%
113	8.931	8.912	8.955	VV	21734	421992	25.58%	0.548%
114	8.969	8.955	8.978	VV	17470	232072	14.07%	0.301%
115	8.994	8.978	9.010	VV	20039	338391	20.52%	0.439%
116	9.031	9.010	9.052	VV	25821	487518	29.56%	0.633%
117	9.069	9.052	9.082	VV	18278	286874	17.39%	0.372%
118	9.115	9.082	9.138	VV	54201	945799	57.34%	1.227%
119	9.143	9.138	9.149	VV	12270	79085	4.79%	0.103%
120	9.162	9.149	9.177	VV	12519	204931	12.42%	0.266%
121	9.193	9.177	9.202	VV	13272	183196	11.11%	0.238%
122	9.217	9.202	9.238	VV	17344	318397	19.30%	0.413%
123	9.258	9.238	9.277	VV	16243	325033	19.71%	0.422%
124	9.289	9.277	9.308	VV	12418	210740	12.78%	0.273%
125	9.342	9.308	9.359	VV	17768	417827	25.33%	0.542%
126	9.387	9.359	9.405	VV	19862	423308	25.66%	0.549%
127	9.428	9.405	9.463	VV	20574	469187	28.45%	0.609%
128	9.485	9.463	9.508	VV	14666	308381	18.70%	0.400%
129	9.544	9.508	9.563	VV	16687	390400	23.67%	0.507%
130	9.576	9.563	9.593	VV	12979	191542	11.61%	0.249%
131	9.602	9.593	9.614	VV	9161	113674	6.89%	0.148%
132	9.634	9.614	9.649	VV	9720	182744	11.08%	0.237%
133	9.662	9.649	9.667	VV	10252	100398	6.09%	0.130%
134	9.683	9.667	9.714	VV	15840	328702	19.93%	0.427%
135	9.726	9.714	9.747	VV	9094	159528	9.67%	0.207%
136	9.775	9.747	9.810	VV	18203	468279	28.39%	0.608%
137	9.817	9.810	9.825	VV	8305	71991	4.36%	0.093%
138	9.849	9.825	9.882	VV	15940	396923	24.07%	0.515%
139	9.890	9.882	9.901	VV	7552	82726	5.02%	0.107%
140	9.918	9.901	9.925	VV	8855	118906	7.21%	0.154%
141	9.942	9.925	9.960	VV	12176	210557	12.77%	0.273%

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142	9.971	9.960	9.989	VV	9074	133377	8.09%	0.173%
143	10.015	9.989	10.021	VV	7724	133521	8.10%	0.173%
144	10.047	10.021	10.077	VV	148279	1649375	100.00%	2.140%
145	10.092	10.077	10.114	VV	8244	164892	10.00%	0.214%
146	10.140	10.114	10.166	VV	11126	272834	16.54%	0.354%
147	10.184	10.166	10.205	VV	9458	188493	11.43%	0.245%
148	10.213	10.205	10.230	VV	6643	90340	5.48%	0.117%
149	10.247	10.230	10.271	VV	7054	163667	9.92%	0.212%
150	10.287	10.271	10.324	VV	7826	189372	11.48%	0.246%
151	10.355	10.324	10.381	VV	6696	182307	11.05%	0.237%
152	10.392	10.381	10.407	VV	4671	69034	4.19%	0.090%
153	10.413	10.407	10.436	VV	4475	72527	4.40%	0.094%
154	10.459	10.436	10.489	VV	5136	133150	8.07%	0.173%
155	10.520	10.489	10.545	VV	33733	456685	27.69%	0.593%
156	10.571	10.545	10.598	VV	17984	314558	19.07%	0.408%
157	10.621	10.598	10.635	VV	7123	127929	7.76%	0.166%
158	10.646	10.635	10.672	VV	7078	126745	7.68%	0.164%
159	10.692	10.672	10.710	VV	6536	116841	7.08%	0.152%
160	10.720	10.710	10.741	VV	4730	76126	4.62%	0.099%
161	10.766	10.741	10.776	VV	5141	88009	5.34%	0.114%
162	10.783	10.776	10.805	VV	4776	74220	4.50%	0.096%
163	10.829	10.805	10.843	VV	4703	94546	5.73%	0.123%
164	10.856	10.843	10.887	VV	4573	112549	6.82%	0.146%
165	10.904	10.887	10.914	VV	4851	71893	4.36%	0.093%
166	10.935	10.914	10.957	VV	4955	112770	6.84%	0.146%
167	10.995	10.957	11.029	VV	16886	340265	20.63%	0.442%
168	11.041	11.029	11.087	VV	3910	112338	6.81%	0.146%
169	11.135	11.087	11.150	VV	3159	107810	6.54%	0.140%
170	11.170	11.150	11.183	VV	5137	78953	4.79%	0.102%
171	11.194	11.183	11.224	VV	4889	93448	5.67%	0.121%
172	11.255	11.224	11.289	VV	3598	113865	6.90%	0.148%
173	11.321	11.289	11.343	VV	5144	113859	6.90%	0.148%
174	11.353	11.343	11.373	VV	2747	45576	2.76%	0.059%
175	11.394	11.373	11.420	VV	2611	68258	4.14%	0.089%
176	11.482	11.420	11.504	VV	3642	134423	8.15%	0.174%
177	11.530	11.504	11.552	VV	3125	79188	4.80%	0.103%
178	11.568	11.552	11.590	VV	3271	68317	4.14%	0.089%
179	11.598	11.590	11.610	VV	2871	33468	2.03%	0.043%
180	11.625	11.610	11.636	VV	3100	43984	2.67%	0.057%
181	11.652	11.636	11.680	VV	3111	73987	4.49%	0.096%
182	11.718	11.680	11.750	VV	7690	191925	11.64%	0.249%
183	11.781	11.750	11.805	VV	2696	78201	4.74%	0.101%
184	11.825	11.805	11.853	VV	3433	71199	4.32%	0.092%
185	11.882	11.853	11.906	VV	4077	94988	5.76%	0.123%
186	11.913	11.906	11.924	VV	2451	25343	1.54%	0.033%
187	11.936	11.924	11.952	VV	2492	39125	2.37%	0.051%
188	11.977	11.952	11.990	VV	3737	64768	3.93%	0.084%
189	12.006	11.990	12.028	VV	4347	71850	4.36%	0.093%
190	12.040	12.028	12.057	VV	2448	39697	2.41%	0.052%
191	12.073	12.057	12.097	VV	2342	50997	3.09%	0.066%
192	12.124	12.097	12.140	VV	3121	64655	3.92%	0.084%
193	12.157	12.140	12.212	VV	3077	95643	5.80%	0.124%
194	12.237	12.212	12.245	VV	1929	35660	2.16%	0.046%

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195	12.278	12.245	12.302	VV	3845	93387	5.66%	0.121%
196	12.315	12.302	12.332	VV	2710	42064	2.55%	0.055%
197	12.345	12.332	12.361	VV	2210	35918	2.18%	0.047%
198	12.387	12.361	12.414	VV	3654	84687	5.13%	0.110%
199	12.418	12.414	12.439	VV	2180	29211	1.77%	0.038%
200	12.454	12.439	12.467	VV	1954	31616	1.92%	0.041%
201	12.482	12.467	12.492	VV	1876	25879	1.57%	0.034%
202	12.550	12.492	12.609	VV	114660	1563820	94.81%	2.029%
203	12.627	12.609	12.642	VV	3562	57898	3.51%	0.075%
204	12.656	12.642	12.696	VV	3197	84853	5.14%	0.110%
205	12.722	12.696	12.742	VV	2701	60863	3.69%	0.079%
206	12.767	12.742	12.812	VV	3282	94355	5.72%	0.122%
207	12.820	12.812	12.833	VV	1699	20346	1.23%	0.026%
208	12.876	12.833	12.898	VV	4136	102880	6.24%	0.134%
209	12.916	12.898	12.925	VV	2510	37129	2.25%	0.048%
210	12.939	12.925	12.975	VV	2782	64243	3.90%	0.083%
211	13.017	12.975	13.046	VV	5593	133623	8.10%	0.173%
212	13.052	13.046	13.064	VV	1335	13859	0.84%	0.018%
213	13.087	13.064	13.106	VV	1617	36058	2.19%	0.047%
214	13.120	13.106	13.136	VV	1478	24276	1.47%	0.032%
215	13.177	13.136	13.228	VV	2473	92790	5.63%	0.120%
216	13.232	13.228	13.240	VV	1269	9555	0.58%	0.012%
217	13.245	13.240	13.265	VV	1284	17753	1.08%	0.023%
218	13.292	13.265	13.317	VV	2448	48613	2.95%	0.063%
219	13.337	13.317	13.377	VV	2085	57790	3.50%	0.075%
220	13.386	13.377	13.407	VV	1337	22287	1.35%	0.029%
221	13.437	13.407	13.456	VV	1869	46229	2.80%	0.060%
222	13.466	13.456	13.482	VV	1599	22317	1.35%	0.029%
223	13.502	13.482	13.518	VV	1484	27008	1.64%	0.035%
224	13.566	13.518	13.596	VV	5244	120588	7.31%	0.156%
225	13.618	13.596	13.676	VV	5415	143469	8.70%	0.186%
226	13.689	13.676	13.707	VV	1921	31962	1.94%	0.041%
227	13.721	13.707	13.741	VV	1960	35351	2.14%	0.046%
228	13.779	13.741	13.859	VV	24870	395028	23.95%	0.513%
229	13.882	13.859	13.923	VV	1623	52038	3.16%	0.068%
230	13.955	13.923	13.968	VV	1329	32275	1.96%	0.042%
231	13.987	13.968	14.015	VV	1561	38756	2.35%	0.050%
232	14.028	14.015	14.040	VV	1380	18721	1.14%	0.024%
233	14.089	14.040	14.117	VV	2628	75939	4.60%	0.099%
234	14.141	14.117	14.180	VV	2828	67030	4.06%	0.087%
235	14.197	14.180	14.215	VV	1345	23529	1.43%	0.031%
236	14.231	14.215	14.238	VV	1049	13550	0.82%	0.018%
237	14.261	14.238	14.315	VV	1879	51441	3.12%	0.067%
238	14.341	14.315	14.349	VV	1025	16017	0.97%	0.021%
239	14.369	14.349	14.373	VV	1156	15952	0.97%	0.021%
240	14.379	14.373	14.406	VV	1192	19034	1.15%	0.025%
241	14.410	14.406	14.414	VV	802	3972	0.24%	0.005%
242	14.417	14.414	14.420	VV	794	2749	0.17%	0.004%
243	14.434	14.420	14.464	VV	887	20812	1.26%	0.027%
244	14.501	14.464	14.510	VV	1201	24417	1.48%	0.032%
245	14.529	14.510	14.565	VV	2107	46955	2.85%	0.061%
246	14.573	14.565	14.589	VV	982	13428	0.81%	0.017%

					rteres			
247	14.603	14.589	14.614	VV	1007	13917	0.84%	0.018%
248	14.627	14.614	14.645	VV	1028	16960	1.03%	0.022%
249	14.657	14.645	14.676	VV	884	14616	0.89%	0.019%
250	14.704	14.676	14.739	VV	5406	87484	5.30%	0.114%
251	14.765	14.739	14.784	VV	1416	29433	1.78%	0.038%
252	14.801	14.784	14.822	VV	1285	25160	1.53%	0.033%
253	14.825	14.822	14.845	VV	1005	12175	0.74%	0.016%
254	14.862	14.845	14.887	VV	938	18531	1.12%	0.024%
255	14.923	14.887	14.961	VV	1295	35501	2.15%	0.046%
256	14.970	14.961	15.003	VV	721	15809	0.96%	0.021%
257	15.042	15.003	15.079	VV	100681	1370502	83.09%	1.778%
258	15.087	15.079	15.113	VV	863	14148	0.86%	0.018%
259	15.131	15.113	15.135	VV	549	6344	0.38%	0.008%
260	15.148	15.135	15.159	VV	658	8278	0.50%	0.011%
261	15.169	15.159	15.185	VV	600	8387	0.51%	0.011%
262	15.210	15.185	15.222	VV	1331	22136	1.34%	0.029%
263	15.245	15.222	15.271	VV	6756	93675	5.68%	0.122%
264	15.288	15.271	15.313	VV	1350	20036	1.21%	0.026%
265	15.328	15.313	15.370	VV	462	11409	0.69%	0.015%
266	15.378	15.370	15.402	VV	368	5006	0.30%	0.006%
267	15.406	15.402	15.417	VV	181	1297	0.08%	0.002%
268	15.443	15.417	15.459	VV	308	4781	0.29%	0.006%
269	15.475	15.459	15.480	VV	235	2140	0.13%	0.003%
270	15.490	15.480	15.498	VV	264	2235	0.14%	0.003%
271	15.501	15.498	15.521	VV	217	1729	0.10%	0.002%
272	15.530	15.521	15.545	VV	176	1420	0.09%	0.002%
273	15.550	15.545	15.567	VV	121	1032	0.06%	0.001%
274	15.621	15.567	15.737	VV	33672	524065	31.77%	0.680%
275	15.766	15.737	15.806	VV	9012	135920	8.24%	0.176%
276	15.840	15.806	15.872	VV	3552	53831	3.26%	0.070%
277	15.892	15.872	15.925	VV	441	8128	0.49%	0.011%
278	15.937	15.925	15.953	VV	112	1336	0.08%	0.002%
279	15.979	15.953	15.999	VV	354	6300	0.38%	0.008%
280	16.007	15.999	16.014	VV	304	2119	0.13%	0.003%
281	16.017	16.014	16.027	VV	259	1828	0.11%	0.002%
282	16.058	16.027	16.072	VV	368	7561	0.46%	0.010%
283	16.085	16.072	16.113	VV	495	7431	0.45%	0.010%
284	16.140	16.113	16.166	VV	954	16038	0.97%	0.021%
285	16.179	16.166	16.198	VV	393	5381	0.33%	0.007%
286	16.202	16.198	16.214	VV	121	1066	0.06%	0.001%
287	16.223	16.214	16.229	VV	221	1572	0.10%	0.002%
288	16.267	16.229	16.309	VV	9379	121693	7.38%	0.158%
289	16.326	16.309	16.367	VV	306	5933	0.36%	0.008%
290	16.374	16.367	16.378	PV	116	443	0.03%	0.001%
291	16.383	16.378	16.392	VV	102	499	0.03%	0.001%
292	16.410	16.392	16.432	VV	172	2559	0.16%	0.003%
293	16.458	16.432	16.472	VV	449	7812	0.47%	0.010%
294	16.479	16.472	16.497	VV	281	2546	0.15%	0.003%
295	16.516	16.497	16.522	VV	100	1030	0.06%	0.001%
296	16.572	16.522	16.600	PV	641	13445	0.82%	0.017%
297	16.639	16.600	16.684	VV	2663	52431	3.18%	0.068%
298	16.750	16.684	16.782	VV	10028	151038	9.16%	0.196%
299	16.826	16.782	16.860	VV	992	17522	1.06%	0.023%

					rteres			
300	16.880	16.860	16.926	VV	343	7111	0.43%	0.009%
301	16.931	16.926	16.935	VV	94	384	0.02%	0.000%
302	16.950	16.935	16.959	VV	231	2113	0.13%	0.003%
303	16.962	16.959	16.973	VV	216	1334	0.08%	0.002%
304	17.003	16.973	17.029	VV	518	13061	0.79%	0.017%
305	17.051	17.029	17.077	VV	863	15411	0.93%	0.020%
306	17.108	17.077	17.152	VV	655	19289	1.17%	0.025%
307	17.217	17.152	17.244	VV	9327	138577	8.40%	0.180%
308	17.267	17.244	17.322	VV	3937	66725	4.05%	0.087%
					Sum of corrected areas:		77059664	

FG111324.M Mon Nov 18 02:13:08 2024

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-13		SDG No.:	P4839	
Lab Sample ID:	P4839-05		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	86.4	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
FG014850.D	20	11/14/24 13:15	11/18/24 14:22	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	318000		4280	38600	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	0.68		37 - 130	68%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014850.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 14:22
Operator : YP\AJ
Sample : P4839-05 20X
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-13

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: autoint1.e
Quant Time: Nov 19 01:31:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.038	76711	0.684 ug/mlm

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014850.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 14:22
Operator : YP\AJ
Sample : P4839-05 20X
Misc :
ALS Vial : 17 Sample Multiplier: 1

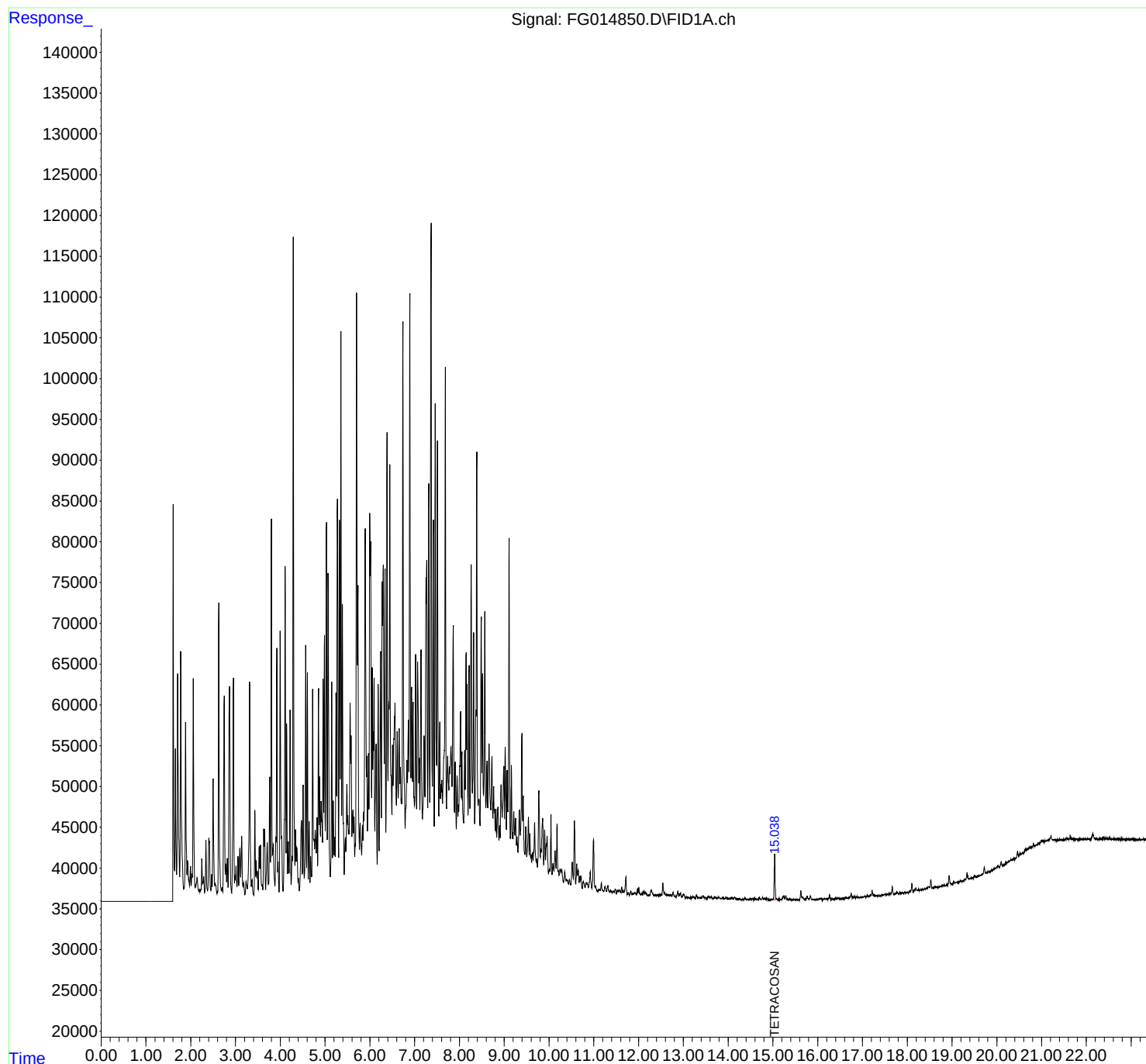
Instrument :
FID_G
ClientSampleId :
EX-9-TPH-13

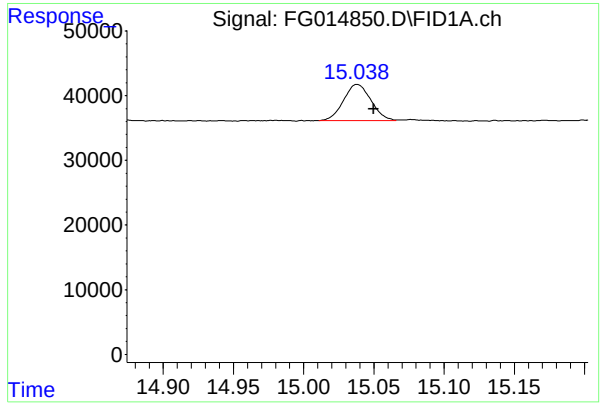
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: autoint1.e
Quant Time: Nov 19 01:31:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.038 min
Delta R.T.: -0.012 min
Response: 76711
Conc: 0.68 ug/ml

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-13

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rters

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-13

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11182
Data File : FG014850.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 14:22
Sample : P4839-05 20X
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.474	4.420	4.492	BV	8546	168211	12.27%	0.325%
2	4.509	4.492	4.535	VV	12888	161475	11.78%	0.312%
3	4.568	4.535	4.588	VV	29936	353860	25.82%	0.684%
4	4.606	4.588	4.626	VV	26586	271237	19.79%	0.524%
5	4.644	4.626	4.664	VV	8404	99744	7.28%	0.193%
6	4.678	4.664	4.693	VV	4104	45471	3.32%	0.088%
7	4.723	4.693	4.743	VV	24601	291646	21.28%	0.564%
8	4.752	4.743	4.768	VV	6175	85350	6.23%	0.165%
9	4.781	4.768	4.804	VV	7310	131123	9.57%	0.253%
10	4.821	4.804	4.835	VV	8874	117444	8.57%	0.227%
11	4.853	4.835	4.867	VV	24655	263055	19.19%	0.509%
12	4.878	4.867	4.897	VV	13876	181936	13.28%	0.352%
13	4.913	4.897	4.926	VV	10872	157720	11.51%	0.305%
14	4.930	4.926	4.941	VV	8645	71276	5.20%	0.138%
15	4.957	4.941	4.971	VV	25853	283317	20.67%	0.548%
16	4.986	4.971	5.004	VV	31159	367180	26.79%	0.710%
17	5.029	5.004	5.050	VV	44993	651920	47.57%	1.260%
18	5.068	5.050	5.117	VV	38737	594456	43.38%	1.149%
19	5.149	5.117	5.167	VV	25440	304703	22.23%	0.589%
20	5.183	5.167	5.203	VV	10901	156536	11.42%	0.303%
21	5.214	5.203	5.225	VV	6428	71987	5.25%	0.139%
22	5.245	5.225	5.257	VV	24167	276501	20.18%	0.535%
23	5.274	5.257	5.303	VV	47890	770250	56.20%	1.489%
24	5.322	5.303	5.338	VV	45281	530921	38.74%	1.026%
25	5.354	5.338	5.372	VV	68361	720419	52.57%	1.393%
26	5.388	5.372	5.428	VV	34930	481308	35.12%	0.930%
27	5.453	5.428	5.466	VV	6374	111828	8.16%	0.216%
28	5.487	5.466	5.501	VV	12915	192464	14.04%	0.372%
29	5.509	5.501	5.521	VV	9069	100321	7.32%	0.194%
30	5.529	5.521	5.535	VV	7297	57672	4.21%	0.111%
31	5.560	5.535	5.573	VV	22885	344376	25.13%	0.666%
32	5.582	5.573	5.600	VV	18899	225878	16.48%	0.437%
33	5.623	5.600	5.637	VV	9803	189202	13.81%	0.366%
34	5.647	5.637	5.662	VV	8933	107993	7.88%	0.209%
35	5.675	5.662	5.680	VV	5664	54940	4.01%	0.106%
36	5.704	5.680	5.723	VV	73163	991513	72.35%	1.917%

37	5.734	5.723	5.768	VV	37265	500129	36.49%	0.967%
38	5.783	5.768	5.817	VV	8157	179895	13.63%	0.361%
39	5.835	5.817	5.846	VV	7898	110479	11.81%	0.294%
40	5.859	5.846	5.868	VV	9520	107800	10.77%	0.273%
41	5.896	5.868	5.923	VV	44246	830523	60.07%	1.579%
42	5.931	5.923	5.947	VV	16353	178103	13.39%	0.348%
43	5.970	5.947	5.981	VV	16701	247594	18.07%	0.479%
44	5.998	5.981	6.009	VV	46085	547282	39.93%	1.058%
45	6.018	6.009	6.039	VV	42644	552695	40.33%	1.068%
46	6.053	6.039	6.065	VV	27237	299296	21.84%	0.579%
47	6.075	6.065	6.082	VV	19375	185694	13.55%	0.359%
48	6.094	6.082	6.111	VV	25931	305775	22.31%	0.591%
49	6.140	6.111	6.164	VV	17839	358277	26.14%	0.693%
50	6.186	6.164	6.206	VV	25160	334953	24.44%	0.647%
51	6.239	6.206	6.258	VV	29156	503164	36.71%	0.973%
52	6.275	6.258	6.284	VV	37733	415095	30.29%	0.802%
53	6.300	6.284	6.324	VV	39765	720019	52.54%	1.392%
54	6.339	6.324	6.358	VV	39284	472541	34.48%	0.913%
55	6.383	6.358	6.405	VV	55945	758701	55.36%	1.467%
56	6.424	6.405	6.430	VV	23075	308613	22.52%	0.597%
57	6.447	6.430	6.492	VV	52085	878865	64.13%	1.699%
58	6.507	6.492	6.519	VV	17729	219924	16.05%	0.425%
59	6.562	6.519	6.592	VV	22885	762249	55.62%	1.474%
60	6.612	6.592	6.635	VV	19378	370387	27.03%	0.716%
61	6.655	6.635	6.673	VV	19731	365525	26.67%	0.707%
62	6.683	6.673	6.699	VV	14985	202540	14.78%	0.392%
63	6.708	6.699	6.716	VV	11127	108567	7.92%	0.210%
64	6.738	6.716	6.789	VV	69639	1101584	80.38%	2.129%
65	6.827	6.789	6.840	VV	15839	368474	26.89%	0.712%
66	6.862	6.840	6.874	VV	20766	346708	25.30%	0.670%
67	6.893	6.874	6.917	VV	73076	979965	71.51%	1.894%
68	6.932	6.917	6.953	VV	24800	414321	30.23%	0.801%
69	6.966	6.953	6.997	VV	22949	394599	28.79%	0.763%
70	7.022	6.997	7.044	VV	28815	488986	35.68%	0.945%
71	7.068	7.044	7.095	VV	27856	585844	42.75%	1.132%
72	7.104	7.095	7.118	VV	16108	186827	13.63%	0.361%
73	7.143	7.118	7.174	VV	29396	589020	42.98%	1.139%
74	7.212	7.174	7.231	VV	18818	441242	32.20%	0.853%
75	7.254	7.231	7.261	VV	38200	469155	34.23%	0.907%
76	7.270	7.261	7.292	VV	40345	500638	36.53%	0.968%
77	7.313	7.292	7.339	VV	49706	723048	52.76%	1.398%
78	7.368	7.339	7.398	VV	81679	1370479	100.00%	2.649%
79	7.418	7.398	7.439	VV	45250	593127	43.28%	1.147%
80	7.461	7.439	7.491	VV	59515	893969	65.23%	1.728%
81	7.509	7.491	7.540	VV	55002	816784	59.60%	1.579%
82	7.561	7.540	7.577	VV	20528	318270	23.22%	0.615%
83	7.589	7.577	7.597	VV	12813	152318	11.11%	0.294%
84	7.607	7.597	7.623	VV	13366	186217	13.59%	0.360%
85	7.686	7.623	7.712	VV	63739	1227437	89.56%	2.373%
86	7.738	7.712	7.764	VV	16311	422281	30.81%	0.816%
87	7.777	7.764	7.785	VV	15000	180126	13.14%	0.348%
88	7.811	7.785	7.836	VV	17397	471795	34.43%	0.912%
89	7.862	7.836	7.889	VV	32327	638682	46.60%	1.235%

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-13

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-13

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

					rt	Area	Area%	Height
90	7.907	7.889	7.931	VV	15613	300529	21.93%	0.581%
91	7.949	7.931	7.967	VV	13909	237855	17.88%	0.581%
92	7.979	7.967	7.987	VV	10329	114548	8.88%	0.581%
93	8.027	7.987	8.043	VV	21782	529516	38.61%	0.581%
94	8.057	8.043	8.097	VV	16825	366744	26.99%	0.581%
95	8.118	8.097	8.131	VV	17022	266241	19.84%	0.581%
96	8.148	8.131	8.162	VV	28984	394012	28.75%	0.762%
97	8.173	8.162	8.193	VV	25099	333114	24.31%	0.644%
98	8.216	8.193	8.236	VV	27413	424853	31.00%	0.821%
99	8.263	8.236	8.289	VV	39807	699686	51.05%	1.353%
100	8.318	8.289	8.341	VV	31427	544554	39.73%	1.053%
101	8.388	8.341	8.419	VV	53583	1040332	75.91%	2.011%
102	8.439	8.419	8.460	VV	10976	249852	18.23%	0.483%
103	8.487	8.460	8.503	VV	33339	508598	37.11%	0.983%
104	8.516	8.503	8.540	VV	26399	390838	28.52%	0.756%
105	8.568	8.540	8.592	VV	33967	591750	43.18%	1.144%
106	8.617	8.592	8.632	VV	15701	301550	22.00%	0.583%
107	8.664	8.632	8.701	VV	17808	535092	39.04%	1.034%
108	8.727	8.701	8.747	VV	16232	346320	25.27%	0.669%
109	8.765	8.747	8.779	VV	12546	201801	14.72%	0.390%
110	8.786	8.779	8.802	VV	9747	120429	8.79%	0.233%
111	8.817	8.802	8.834	VV	9814	156039	11.39%	0.302%
112	8.861	8.834	8.885	VV	10038	248498	18.13%	0.480%
113	8.899	8.885	8.911	VV	7782	108478	7.92%	0.210%
114	8.929	8.911	8.956	VV	12755	271286	19.79%	0.524%
115	8.992	8.956	9.007	VV	15010	355431	25.93%	0.687%
116	9.023	9.007	9.047	VV	17367	304103	22.19%	0.588%
117	9.065	9.047	9.081	VV	14523	227670	16.61%	0.440%
118	9.110	9.081	9.137	VV	42929	661000	48.23%	1.278%
119	9.162	9.137	9.180	VV	15122	250555	18.28%	0.484%
120	9.190	9.180	9.199	VV	6877	72667	5.30%	0.140%
121	9.215	9.199	9.237	VV	9456	177328	12.94%	0.343%
122	9.256	9.237	9.275	VV	8635	165431	12.07%	0.320%
123	9.286	9.275	9.309	VV	6362	110456	8.06%	0.214%
124	9.340	9.309	9.356	VV	9638	205840	15.02%	0.398%
125	9.396	9.356	9.414	VV	19021	396605	28.94%	0.767%
126	9.426	9.414	9.462	VV	11400	202446	14.77%	0.391%
127	9.483	9.462	9.504	VV	7599	142520	10.40%	0.276%
128	9.543	9.504	9.561	VV	8770	197870	14.44%	0.383%
129	9.575	9.561	9.591	VV	6779	95186	6.95%	0.184%
130	9.599	9.591	9.613	VV	4139	48926	3.57%	0.095%
131	9.632	9.613	9.647	VV	4418	79794	5.82%	0.154%
132	9.680	9.647	9.713	VV	8092	200654	14.64%	0.388%
133	9.726	9.713	9.742	VV	3691	57662	4.21%	0.111%
134	9.774	9.742	9.807	VV	12016	264704	19.31%	0.512%
135	9.820	9.807	9.828	VV	4891	55684	4.06%	0.108%
136	9.859	9.828	9.883	VV	8654	208004	15.18%	0.402%
137	9.905	9.883	9.925	VV	7202	123358	9.00%	0.238%
138	9.941	9.925	9.947	VV	5563	61451	4.48%	0.119%
139	9.959	9.947	9.987	VV	6437	110179	8.04%	0.213%
140	10.010	9.987	10.022	VV	2419	46028	3.36%	0.089%
141	10.044	10.022	10.071	VV	9053	128655	9.39%	0.249%

142	10.090	10.071	10.112	VV	3019	61343	4.48%	0.119%
143	10.137	10.112	10.160	VV	4650	98086		
144	10.180	10.160	10.206	VV	7950	122109		
145	10.211	10.206	10.227	VV	2146	24577		
146	10.247	10.227	10.271	VV	2365	54652		
147	10.286	10.271	10.325	VV	2443	53556		
148	10.352	10.325	10.381	VV	2041	45920	3.35%	0.089%
149	10.391	10.381	10.404	VV	1165	14066	1.03%	0.027%
150	10.414	10.404	10.438	VV	1017	16053	1.17%	0.031%
151	10.457	10.438	10.487	VV	1179	22341	1.63%	0.043%
152	10.519	10.487	10.542	VV	3210	60554	4.42%	0.117%
153	10.570	10.542	10.597	VV	8328	128522	9.38%	0.248%
154	10.620	10.597	10.635	VV	2975	42662	3.11%	0.082%
155	10.652	10.635	10.675	VV	2271	41158	3.00%	0.080%
156	10.690	10.675	10.702	VV	1466	19179	1.40%	0.037%
157	10.714	10.702	10.743	VV	1579	19688	1.44%	0.038%
158	10.765	10.743	10.800	PBA	811	14863	1.08%	0.029%
159	10.830	10.800	10.840	BV	611	7648	0.56%	0.015%
160	10.854	10.840	10.880	VV	597	9412	0.69%	0.018%
161	10.921	10.880	10.954	VV	2131	41457	3.02%	0.080%
162	10.994	10.954	11.032	VV	6170	99697	7.27%	0.193%
163	11.042	11.032	11.088	VV	524	7774	0.57%	0.015%
164	11.134	11.088	11.152	PV	270	6629	0.48%	0.013%
165	11.170	11.152	11.222	VV	1116	17293	1.26%	0.033%
166	11.248	11.222	11.284	VV	713	15141	1.10%	0.029%
167	11.314	11.284	11.340	VV	884	16602	1.21%	0.032%
168	11.343	11.340	11.356	VV	262	1867	0.14%	0.004%
169	11.378	11.356	11.412	VV	356	7026	0.51%	0.014%
170	11.429	11.412	11.449	VV	294	3953	0.29%	0.008%
171	11.455	11.449	11.461	VV	255	1522	0.11%	0.003%
172	11.479	11.461	11.502	VV	587	8381	0.61%	0.016%
173	11.526	11.502	11.548	PV	416	7621	0.56%	0.015%
174	11.563	11.548	11.589	VV	576	9387	0.68%	0.018%
175	11.599	11.589	11.607	VV	298	3024	0.22%	0.006%
176	11.624	11.607	11.656	VV	903	15347	1.12%	0.030%
177	11.660	11.656	11.675	VV	361	3738	0.27%	0.007%
178	11.718	11.675	11.747	VV	2162	38481	2.81%	0.074%
179	11.771	11.747	11.799	VV	282	4078	0.30%	0.008%
180	11.827	11.799	11.852	VV	495	6446	0.47%	0.012%
181	11.865	11.852	11.884	PV	226	2448	0.18%	0.005%
182	11.917	11.884	11.957	VV	336	9394	0.69%	0.018%
183	11.978	11.957	11.990	VV	856	9976	0.73%	0.019%
184	12.006	11.990	12.048	VV	971	15305	1.12%	0.030%
185	12.074	12.048	12.094	VV	303	5053	0.37%	0.010%
186	12.122	12.094	12.139	VV	616	10173	0.74%	0.020%
187	12.155	12.139	12.185	VV	504	8848	0.65%	0.017%
188	12.190	12.185	12.207	VV	173	1196	0.09%	0.002%
189	12.237	12.207	12.248	VV	179	2324	0.17%	0.004%
190	12.278	12.248	12.331	VV	732	20635	1.51%	0.040%
191	12.343	12.331	12.354	VV	198	1826	0.13%	0.004%
192	12.378	12.354	12.400	VV	223	3768	0.27%	0.007%
193	12.420	12.400	12.426	VV	242	2822	0.21%	0.005%
194	12.433	12.426	12.440	VV	221	1465	0.11%	0.003%

Instrument :

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195	12.445	12.440	12.449	VV	187	835	0.06%	0.002%
196	12.479	12.449	12.491	VV	339	3557		
197	12.513	12.491	12.523	VV	294	4361		
198	12.542	12.523	12.614	VV	1702	35148		
199	12.629	12.614	12.644	VV	344	4762		
200	12.655	12.644	12.666	VV	310	3351		
201	12.672	12.666	12.683	VV	253	2205	0.16%	0.004%
202	12.719	12.683	12.745	VV	367	8755	0.64%	0.017%
203	12.767	12.745	12.801	VV	581	10998	0.80%	0.021%
204	12.808	12.801	12.828	VV	150	1617	0.12%	0.003%
205	12.834	12.828	12.839	VV	101	553	0.04%	0.001%
206	12.877	12.839	12.896	VV	800	14008	1.02%	0.027%
207	12.912	12.896	12.923	VV	437	5621	0.41%	0.011%
208	12.939	12.923	12.962	VV	669	9339	0.68%	0.018%
209	12.966	12.962	12.976	VV	165	1152	0.08%	0.002%
210	12.995	12.976	13.005	VV	452	5955	0.43%	0.012%
211	13.015	13.005	13.040	VV	428	5736	0.42%	0.011%
212	13.044	13.040	13.047	VV	84	192	0.01%	0.000%
213	13.052	13.047	13.062	VV	106	534	0.04%	0.001%
214	13.079	13.062	13.087	VV	133	1432	0.10%	0.003%
215	13.091	13.087	13.111	VV	164	1369	0.10%	0.003%
216	13.127	13.111	13.144	VV	111	1076	0.08%	0.002%
217	13.161	13.144	13.173	PV	129	1022	0.07%	0.002%
218	13.195	13.173	13.200	VV	194	1759	0.13%	0.003%
219	13.210	13.200	13.231	VV	254	3718	0.27%	0.007%
220	13.237	13.231	13.264	VV	153	1648	0.12%	0.003%
221	13.267	13.264	13.272	VV	86	237	0.02%	0.000%
222	13.292	13.272	13.322	VV	467	6110	0.45%	0.012%
223	13.328	13.322	13.338	VV	146	1039	0.08%	0.002%
224	13.358	13.338	13.385	VV	184	3228	0.24%	0.006%
225	13.390	13.385	13.398	VV	177	953	0.07%	0.002%
226	13.407	13.398	13.415	VV	165	1225	0.09%	0.002%
227	13.442	13.415	13.462	VV	380	7314	0.53%	0.014%
228	13.465	13.462	13.482	VV	223	2059	0.15%	0.004%
229	13.496	13.482	13.516	VV	219	2823	0.21%	0.005%
230	13.520	13.516	13.531	VV	64	221	0.02%	0.000%
231	13.562	13.531	13.605	PV	371	10527	0.77%	0.020%
232	13.629	13.605	13.673	VV	331	7193	0.52%	0.014%
233	13.719	13.673	13.724	VV	301	6007	0.44%	0.012%
234	13.727	13.724	13.741	VV	300	1936	0.14%	0.004%
235	13.767	13.741	13.772	VV	228	3008	0.22%	0.006%
236	13.782	13.772	13.787	VV	307	1992	0.15%	0.004%
237	13.790	13.787	13.824	VV	296	4397	0.32%	0.009%
238	13.831	13.824	13.838	VV	180	1259	0.09%	0.002%
239	13.844	13.838	13.860	VV	172	1934	0.14%	0.004%
240	13.877	13.860	13.921	VV	198	5150	0.38%	0.010%
241	13.955	13.921	13.979	VV	356	6665	0.49%	0.013%
242	13.998	13.979	14.014	VV	199	3403	0.25%	0.007%
243	14.024	14.014	14.037	VV	204	2312	0.17%	0.004%
244	14.043	14.037	14.059	VV	210	2133	0.16%	0.004%
245	14.090	14.059	14.113	VV	305	5797	0.42%	0.011%
246	14.123	14.113	14.128	VV	330	1484	0.11%	0.003%

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247	14.141	14.128	14.187	VV	375	8199	0.60%	0.016%
248	14.192	14.187	14.213	VV	203	2382		
249	14.230	14.213	14.236	VV	144	1377		
250	14.256	14.236	14.279	VV	202	3542		
251	14.286	14.279	14.290	VV	127	634		
252	14.295	14.290	14.310	VV	126	1024		
253	14.317	14.310	14.325	VV	96	435	0.03%	0.001%
254	14.338	14.325	14.343	PV	110	785	0.06%	0.002%
255	14.366	14.343	14.380	VV	269	4203	0.31%	0.008%
256	14.385	14.380	14.399	VV	269	2066	0.15%	0.004%
257	14.418	14.399	14.450	VV	145	2680	0.20%	0.005%
258	14.454	14.450	14.473	VV	116	1100	0.08%	0.002%
259	14.489	14.473	14.493	VV	153	1403	0.10%	0.003%
260	14.506	14.493	14.514	VV	186	1876	0.14%	0.004%
261	14.532	14.514	14.556	VV	172	3338	0.24%	0.006%
262	14.560	14.556	14.564	VV	136	535	0.04%	0.001%
263	14.568	14.564	14.573	VV	143	518	0.04%	0.001%
264	14.588	14.573	14.600	VV	167	1958	0.14%	0.004%
265	14.616	14.600	14.632	VV	173	2425	0.18%	0.005%
266	14.654	14.632	14.677	VV	180	2793	0.20%	0.005%
267	14.702	14.677	14.745	VV	352	7153	0.52%	0.014%
268	14.766	14.745	14.784	VV	351	5150	0.38%	0.010%
269	14.801	14.784	14.848	VV	195	5952	0.43%	0.012%
270	14.853	14.848	14.856	VV	213	760	0.06%	0.001%
271	14.862	14.856	14.911	VV	322	4382	0.32%	0.008%
272	14.919	14.911	14.931	VV	88	700	0.05%	0.001%
273	14.941	14.931	14.954	VV	102	649	0.05%	0.001%
274	14.958	14.954	14.961	VV	96	298	0.02%	0.001%
275	14.964	14.961	14.970	VV	91	404	0.03%	0.001%
276	14.978	14.970	14.995	VV	115	1393	0.10%	0.003%
277	15.038	14.995	15.067	VV	5692	80210	5.85%	0.155%
278	15.077	15.067	15.119	VV	258	3850	0.28%	0.007%
279	15.137	15.119	15.150	VV	127	1178	0.09%	0.002%
280	15.158	15.150	15.165	VV	104	651	0.05%	0.001%
281	15.172	15.165	15.182	VV	160	1071	0.08%	0.002%
282	15.242	15.182	15.264	VV	565	14558	1.06%	0.028%
283	15.285	15.264	15.346	VV	566	11705	0.85%	0.023%
284	15.356	15.346	15.361	VV	165	1099	0.08%	0.002%
285	15.376	15.361	15.417	VV	160	3459	0.25%	0.007%
286	15.430	15.417	15.439	VV	119	942	0.07%	0.002%
287	15.445	15.439	15.450	VV	116	482	0.04%	0.001%
288	15.454	15.450	15.475	VV	88	909	0.07%	0.002%
289	15.480	15.475	15.492	VV	124	800	0.06%	0.002%
290	15.496	15.492	15.502	VV	70	343	0.03%	0.001%
291	15.515	15.502	15.520	VV	100	597	0.04%	0.001%
292	15.535	15.520	15.556	VV	89	1128	0.08%	0.002%
293	15.561	15.556	15.567	PV	72	304	0.02%	0.001%
294	15.573	15.567	15.586	VV	115	615	0.04%	0.001%
295	15.593	15.586	15.597	VV	112	432	0.03%	0.001%
296	15.624	15.597	15.654	VV	1172	19391	1.41%	0.037%
297	15.662	15.654	15.695	VV	373	6857	0.50%	0.013%
298	15.706	15.695	15.710	VV	141	999	0.07%	0.002%
299	15.731	15.710	15.740	VV	162	2210	0.16%	0.004%

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300	15.761	15.740	15.803	VV	499	9733	0.71%	0.019%
301	15.837	15.803	15.868	VV	522	9359		
302	15.886	15.868	15.902	VV	147	1676		
303	15.910	15.902	15.916	VV	114	578		
304	15.925	15.916	15.936	VV	95	488		
305	15.970	15.936	15.978	PV	95	959		
306	15.999	15.978	16.005	VV	101	778	0.06%	0.002%
307	16.012	16.005	16.020	VV	71	461	0.03%	0.001%
308	16.044	16.020	16.050	VV	191	1916	0.14%	0.004%
309	16.055	16.050	16.091	VV	152	3090	0.23%	0.006%
310	16.099	16.091	16.110	VV	97	733	0.05%	0.001%
311	16.115	16.110	16.128	PV	84	539	0.04%	0.001%
312	16.149	16.128	16.155	VV	163	1765	0.13%	0.003%
313	16.161	16.155	16.173	VV	130	1061	0.08%	0.002%
314	16.178	16.173	16.184	VV	78	438	0.03%	0.001%
315	16.191	16.184	16.197	VV	99	540	0.04%	0.001%
316	16.206	16.197	16.218	VV	139	907	0.07%	0.002%
317	16.223	16.218	16.227	VV	79	347	0.03%	0.001%
318	16.265	16.227	16.296	VV	601	8977	0.65%	0.017%
319	16.301	16.296	16.312	VV	77	408	0.03%	0.001%
320	16.316	16.312	16.318	VV	49	103	0.01%	0.000%
321	16.324	16.318	16.356	VV	111	1097	0.08%	0.002%
322	16.362	16.356	16.383	VV	52	550	0.04%	0.001%
323	16.409	16.383	16.432	VV	171	3134	0.23%	0.006%
324	16.449	16.432	16.469	VV	183	2775	0.20%	0.005%
325	16.472	16.469	16.481	VV	137	744	0.05%	0.001%
326	16.487	16.481	16.504	VV	123	912	0.07%	0.002%
327	16.509	16.504	16.515	PV	98	279	0.02%	0.001%
328	16.519	16.515	16.523	VV	79	216	0.02%	0.000%
329	16.541	16.523	16.560	VV	103	1741	0.13%	0.003%
330	16.565	16.560	16.582	VV	118	1091	0.08%	0.002%
331	16.584	16.582	16.589	VV	114	278	0.02%	0.001%
332	16.594	16.589	16.615	VV	66	696	0.05%	0.001%
333	16.648	16.615	16.657	VV	163	2618	0.19%	0.005%
334	16.662	16.657	16.669	VV	112	661	0.05%	0.001%
335	16.677	16.669	16.685	VV	95	721	0.05%	0.001%
336	16.747	16.685	16.781	VV	640	13424	0.98%	0.026%
337	16.794	16.781	16.802	VV	228	1782	0.13%	0.003%
338	16.808	16.802	16.819	VV	154	1298	0.09%	0.003%
339	16.823	16.819	16.834	VV	171	1201	0.09%	0.002%
340	16.838	16.834	16.846	VV	172	834	0.06%	0.002%
341	16.865	16.846	16.878	VV	126	1884	0.14%	0.004%
342	16.885	16.878	16.904	VV	146	1424	0.10%	0.003%
343	16.912	16.904	16.919	VV	106	803	0.06%	0.002%
344	16.926	16.919	16.935	VV	86	457	0.03%	0.001%
345	16.971	16.935	17.000	PV	67	1191	0.09%	0.002%
346	17.041	17.000	17.059	VV	134	2466	0.18%	0.005%
347	17.062	17.059	17.071	VV	99	505	0.04%	0.001%
348	17.116	17.071	17.153	VV	208	4420	0.32%	0.009%
349	17.182	17.153	17.188	VV	208	2817	0.21%	0.005%
350	17.191	17.188	17.193	VV	161	527	0.04%	0.001%
351	17.215	17.193	17.247	VV	821	11873	0.87%	0.023%

Instrument :

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352	17.264	17.247	17.283	VV	238	3041	
353	17.297	17.283	17.308	VV	130	1363	
354	17.313	17.308	17.322	VV	80	356	
355	17.335	17.322	17.350	PBA	49	-170	

Sum of corrected areas: 517

Instrument :
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ClientSampleId :
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0.22% 0.006%

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FG111324.M Tue Nov 19 02:33:21 2024

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-14		SDG No.:	P4839	
Lab Sample ID:	P4839-06		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	87.9	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
FG014851.D	50	11/14/24 13:15	11/18/24 14:50	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	422000		10500	94600	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	0.00	*	37 - 130	0%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014851.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 14:50
Operator : YP\AJ
Sample : P4839-06 50X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-14

Integration File: autoint1.e
Quant Time: Nov 19 01:31:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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

Target Compounds

(f)=RT Delta > 1/2 Window

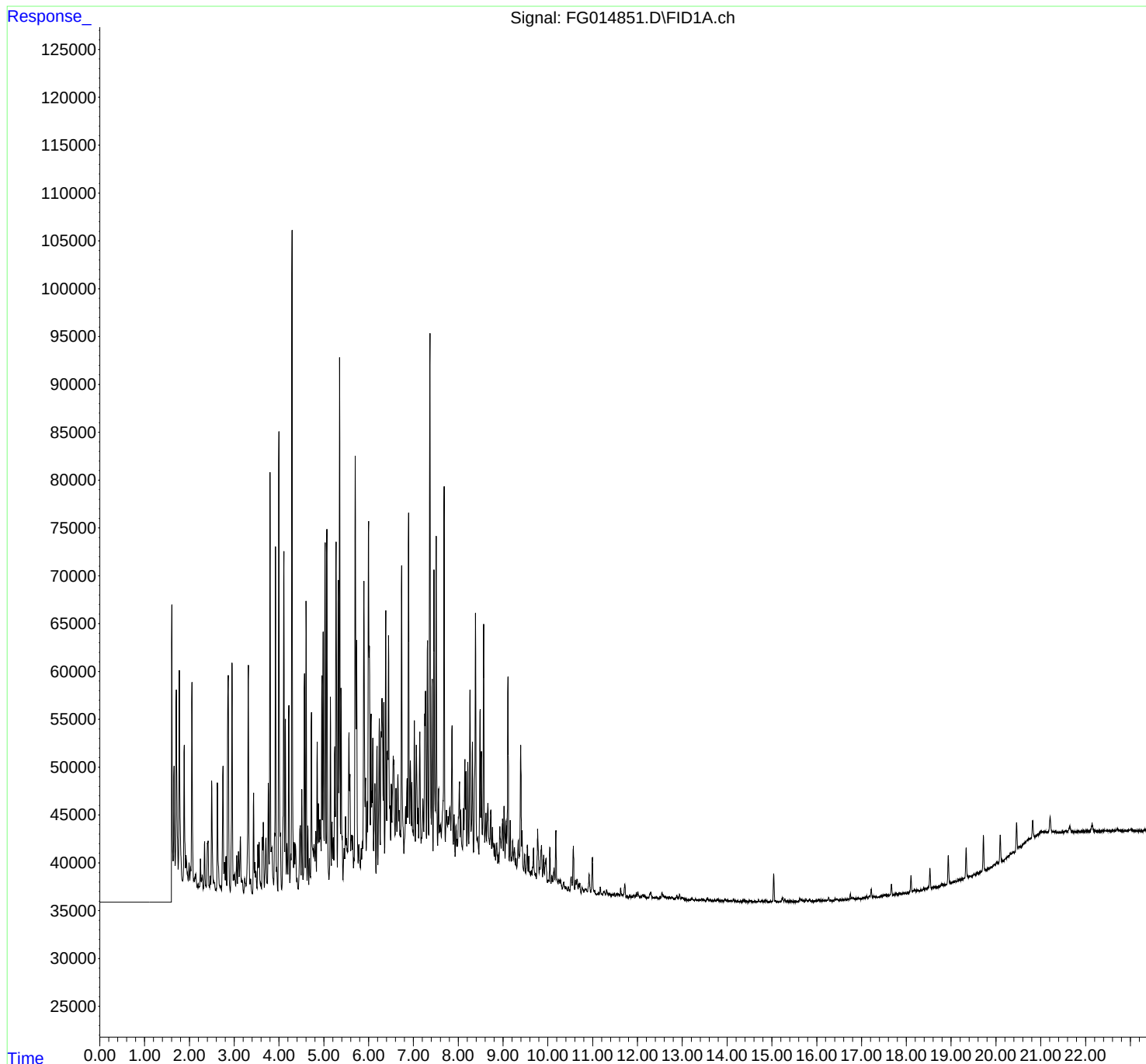
(m)=manual int.

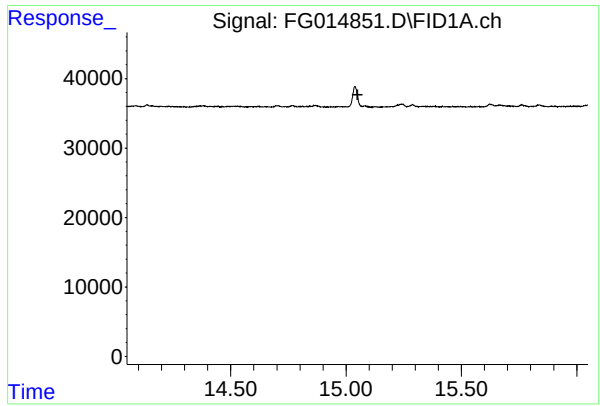
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014851.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 14:50
Operator : YP\AJ
Sample : P4839-06 50X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-14

Integration File: autoint1.e
Quant Time: Nov 19 01:31:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 0.000 min
Exp R.T.: 15.050 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-14

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
 Data File : FG014851.D
 Signal(s) : FID1A.ch
 Acq On : 18 Nov 2024 14:50
 Sample : P4839-06 50X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.510	4.480	4.536	BV	7496	49778	5.84%	0.178%
2	4.568	4.536	4.588	PV	21649	235988	27.70%	0.844%
3	4.606	4.588	4.627	VV	29369	285783	33.55%	1.022%
4	4.645	4.627	4.664	VV	6075	64152	7.53%	0.230%
5	4.679	4.664	4.701	PV	2754	30894	3.63%	0.111%
6	4.723	4.701	4.770	VV	17990	255658	30.01%	0.915%
7	4.782	4.770	4.804	VV	4168	69199	8.12%	0.248%
8	4.821	4.804	4.836	VV	5598	71006	8.34%	0.254%
9	4.853	4.836	4.867	VV	14904	154415	18.13%	0.552%
10	4.879	4.867	4.898	VV	8447	120730	14.17%	0.432%
11	4.913	4.898	4.927	VV	6786	97472	11.44%	0.349%
12	4.931	4.927	4.940	VV	4910	36119	4.24%	0.129%
13	4.956	4.940	4.970	VV	21810	231166	27.14%	0.827%
14	4.986	4.970	5.006	VV	26370	310401	36.44%	1.110%
15	5.029	5.006	5.050	VV	35724	491381	57.68%	1.758%
16	5.067	5.050	5.116	VV	37144	490814	57.62%	1.756%
17	5.149	5.116	5.167	VV	19611	216674	25.44%	0.775%
18	5.183	5.167	5.201	VV	6519	86591	10.17%	0.310%
19	5.213	5.201	5.226	VV	4906	55381	6.50%	0.198%
20	5.245	5.226	5.256	VV	14388	160537	18.85%	0.574%
21	5.273	5.256	5.303	VV	35752	519841	61.02%	1.860%
22	5.323	5.303	5.338	VV	31773	368666	43.28%	1.319%
23	5.354	5.338	5.372	VV	55111	575673	67.58%	2.059%
24	5.388	5.372	5.405	VV	20512	234382	27.51%	0.839%
25	5.410	5.405	5.428	VV	5074	43537	5.11%	0.156%
26	5.455	5.428	5.466	VV	3760	57473	6.75%	0.206%
27	5.486	5.466	5.501	VV	7087	108909	12.78%	0.390%
28	5.509	5.501	5.521	VV	4802	49210	5.78%	0.176%
29	5.527	5.521	5.534	VV	3657	28334	3.33%	0.101%
30	5.561	5.534	5.574	VV	15855	227269	26.68%	0.813%
31	5.583	5.574	5.600	VV	11487	131416	15.43%	0.470%
32	5.624	5.600	5.637	VV	5140	101182	11.88%	0.362%
33	5.647	5.637	5.663	VV	5094	57182	6.71%	0.205%
34	5.675	5.663	5.679	VV	2574	20905	2.45%	0.075%
35	5.702	5.679	5.722	VV	44690	592751	69.58%	2.121%
36	5.733	5.722	5.767	VV	25496	324109	38.05%	1.160%

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37	5.782	5.767	5.817	VV	4159	85579	10.05%	0.306%
38	5.835	5.817	5.847	VV	3761	51166	6.01%	0.183%
39	5.859	5.847	5.868	VV	4424	46850	5.50%	0.168%
40	5.895	5.868	5.922	VV	31591	515129	60.47%	1.843%
41	5.931	5.922	5.947	VV	11098	120598	14.16%	0.431%
42	5.970	5.947	5.980	VV	8668	123294	14.47%	0.441%
43	5.998	5.980	6.011	VV	37931	457566	53.71%	1.637%
44	6.017	6.011	6.039	VV	24854	285714	33.54%	1.022%
45	6.053	6.039	6.066	VV	17776	193673	22.74%	0.693%
46	6.074	6.066	6.081	VV	9728	84734	9.95%	0.303%
47	6.094	6.081	6.111	VV	15259	176505	20.72%	0.631%
48	6.142	6.111	6.164	VV	10504	200544	23.54%	0.717%
49	6.187	6.164	6.207	VV	14400	184979	21.71%	0.662%
50	6.240	6.207	6.259	VV	17268	286034	33.58%	1.023%
51	6.276	6.259	6.281	VV	15920	148654	17.45%	0.532%
52	6.300	6.281	6.325	VV	19412	420293	49.34%	1.504%
53	6.339	6.325	6.358	VV	18962	223596	26.25%	0.800%
54	6.383	6.358	6.403	VV	28583	381148	44.74%	1.364%
55	6.423	6.403	6.431	VV	13919	199020	23.36%	0.712%
56	6.446	6.431	6.471	VV	25971	373053	43.79%	1.335%
57	6.478	6.471	6.492	VV	8149	89787	10.54%	0.321%
58	6.507	6.492	6.520	VV	10462	126110	14.80%	0.451%
59	6.550	6.520	6.557	VV	13352	229594	26.95%	0.821%
60	6.562	6.557	6.592	VV	12972	184656	21.68%	0.661%
61	6.611	6.592	6.633	VV	10012	179340	21.05%	0.642%
62	6.654	6.633	6.673	VV	11414	202174	23.73%	0.723%
63	6.683	6.673	6.700	VV	7686	107215	12.59%	0.384%
64	6.706	6.700	6.717	VV	5350	51495	6.05%	0.184%
65	6.738	6.717	6.788	VV	33246	517973	60.81%	1.853%
66	6.827	6.788	6.839	VV	8100	174749	20.51%	0.625%
67	6.860	6.839	6.874	VV	11015	187408	22.00%	0.670%
68	6.892	6.874	6.916	VV	38750	500589	58.76%	1.791%
69	6.933	6.916	6.953	VV	12836	213863	25.11%	0.765%
70	6.966	6.953	6.982	VV	10593	135207	15.87%	0.484%
71	6.987	6.982	7.002	VV	5636	66524	7.81%	0.238%
72	7.022	7.002	7.043	VV	17051	238140	27.96%	0.852%
73	7.067	7.043	7.094	VV	14479	295343	34.67%	1.057%
74	7.104	7.094	7.117	VV	7929	92301	10.84%	0.330%
75	7.143	7.117	7.173	VV	15878	301875	35.44%	1.080%
76	7.213	7.173	7.231	VV	8878	216170	25.38%	0.773%
77	7.255	7.231	7.261	VV	17763	211271	24.80%	0.756%
78	7.271	7.261	7.292	VV	20109	256223	30.08%	0.917%
79	7.313	7.292	7.340	VV	25372	371589	43.62%	1.329%
80	7.369	7.340	7.399	VV	57461	851855	100.00%	3.048%
81	7.418	7.399	7.438	VV	21362	278367	32.68%	0.996%
82	7.460	7.438	7.492	VV	32749	477606	56.07%	1.709%
83	7.509	7.492	7.541	VV	36252	481082	56.47%	1.721%
84	7.561	7.541	7.577	VV	9925	151198	17.75%	0.541%
85	7.588	7.577	7.598	VV	6086	69855	8.20%	0.250%
86	7.608	7.598	7.623	VV	6156	85529	10.04%	0.306%
87	7.686	7.623	7.712	VV	41424	699919	82.16%	2.504%
88	7.738	7.712	7.763	VV	7677	191767	22.51%	0.686%
89	7.776	7.763	7.787	VV	7016	93414	10.97%	0.334%

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90	7.812	7.787	7.836	VV	7969	205656	24.14%	0.736%
91	7.862	7.836	7.890	VV	16479	307093	36.05%	1.099%
92	7.908	7.890	7.932	VV	7194	134845	15.83%	0.482%
93	7.950	7.932	7.967	VV	6044	98283	11.54%	0.352%
94	7.978	7.967	7.989	VV	4659	54603	6.41%	0.195%
95	8.028	7.989	8.044	VV	10626	240276	28.21%	0.860%
96	8.057	8.044	8.095	VV	7677	159733	18.75%	0.571%
97	8.118	8.095	8.131	VV	7836	121944	14.32%	0.436%
98	8.149	8.131	8.162	VV	12936	179616	21.09%	0.643%
99	8.173	8.162	8.193	VV	11674	146885	17.24%	0.525%
100	8.216	8.193	8.235	VV	12667	188739	22.16%	0.675%
101	8.263	8.235	8.288	VV	20214	338309	39.71%	1.210%
102	8.318	8.288	8.341	VV	14781	253330	29.74%	0.906%
103	8.387	8.341	8.418	VV	28193	526545	61.81%	1.884%
104	8.438	8.418	8.460	VV	4828	108602	12.75%	0.389%
105	8.488	8.460	8.503	VV	18179	259298	30.44%	0.928%
106	8.516	8.503	8.538	VV	13716	185819	21.81%	0.665%
107	8.569	8.538	8.592	VV	27059	388407	45.60%	1.390%
108	8.617	8.592	8.632	VV	7326	134583	15.80%	0.481%
109	8.663	8.632	8.701	VV	8361	242359	28.45%	0.867%
110	8.727	8.701	8.747	VV	7646	154880	18.18%	0.554%
111	8.764	8.747	8.779	VV	5818	86513	10.16%	0.310%
112	8.786	8.779	8.803	VV	4166	53343	6.26%	0.191%
113	8.817	8.803	8.834	VV	4160	62024	7.28%	0.222%
114	8.859	8.834	8.885	VV	4170	97026	11.39%	0.347%
115	8.899	8.885	8.911	VV	2953	40111	4.71%	0.143%
116	8.930	8.911	8.958	VV	5897	122002	14.32%	0.436%
117	8.992	8.958	9.007	VV	6708	148511	17.43%	0.531%
118	9.024	9.007	9.047	VV	8035	130352	15.30%	0.466%
119	9.065	9.047	9.082	VV	6472	100405	11.79%	0.359%
120	9.110	9.082	9.139	VV	21529	324289	38.07%	1.160%
121	9.162	9.139	9.181	VV	6536	100680	11.82%	0.360%
122	9.189	9.181	9.199	VV	2687	27710	3.25%	0.099%
123	9.215	9.199	9.237	VV	4427	76404	8.97%	0.273%
124	9.257	9.237	9.275	VV	3726	66480	7.80%	0.238%
125	9.288	9.275	9.308	VV	2542	41245	4.84%	0.148%
126	9.342	9.308	9.356	VV	4428	84745	9.95%	0.303%
127	9.396	9.356	9.415	VV	14384	238351	27.98%	0.853%
128	9.426	9.415	9.464	VV	5460	85270	10.01%	0.305%
129	9.483	9.464	9.505	VV	2964	49134	5.77%	0.176%
130	9.543	9.505	9.561	VV	3956	72389	8.50%	0.259%
131	9.575	9.561	9.592	VV	2810	34883	4.09%	0.125%
132	9.600	9.592	9.614	VV	1169	13665	1.60%	0.049%
133	9.632	9.614	9.648	VV	1251	20931	2.46%	0.075%
134	9.660	9.648	9.664	VV	1670	13589	1.60%	0.049%
135	9.681	9.664	9.714	VV	3662	57865	6.79%	0.207%
136	9.725	9.714	9.742	VV	970	13247	1.56%	0.047%
137	9.773	9.742	9.807	VV	5598	106483	12.50%	0.381%
138	9.820	9.807	9.828	VV	1630	16944	1.99%	0.061%
139	9.859	9.828	9.884	VV	3930	84076	9.87%	0.301%
140	9.906	9.884	9.925	VV	2873	41467	4.87%	0.148%
141	9.942	9.925	9.948	VV	2142	22844	2.68%	0.082%

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142	9.959	9.948	9.988	VV	2528	35708	4.19%	0.128%
143	10.010	10.000	10.025	BV	105	629	0.07%	0.002%
144	10.045	10.025	10.071	PV	3650	40090	4.71%	0.143%
145	10.090	10.071	10.111	PV	938	12402	1.46%	0.044%
146	10.137	10.111	10.159	VV	1834	31909	3.75%	0.114%
147	10.180	10.159	10.203	VV	5843	71429	8.39%	0.256%
148	10.208	10.203	10.229	VV	726	8534	1.00%	0.031%
149	10.244	10.229	10.270	VV	840	15701	1.84%	0.056%
150	10.284	10.270	10.322	VV	906	15492	1.82%	0.055%
151	10.351	10.322	10.382	PV	747	14476	1.70%	0.052%
152	10.391	10.382	10.406	VV	325	3777	0.44%	0.014%
153	10.413	10.406	10.435	VV	298	3001	0.35%	0.011%
154	10.458	10.435	10.479	PV	437	5921	0.70%	0.021%
155	10.485	10.479	10.491	VV	123	541	0.06%	0.002%
156	10.522	10.491	10.542	VV	1518	27908	3.28%	0.100%
157	10.570	10.542	10.599	VV	4796	73025	8.57%	0.261%
158	10.620	10.599	10.632	VV	1297	17578	2.06%	0.063%
159	10.653	10.632	10.675	VV	1400	26492	3.11%	0.095%
160	10.688	10.675	10.702	VV	965	12173	1.43%	0.044%
161	10.714	10.702	10.740	VV	1034	13466	1.58%	0.048%
162	10.765	10.740	10.802	PV	644	13979	1.64%	0.050%
163	10.825	10.802	10.836	VV	526	7248	0.85%	0.026%
164	10.846	10.836	10.885	VV	559	12257	1.44%	0.044%
165	10.920	10.885	10.957	VV	2131	40681	4.78%	0.146%
166	10.993	10.957	11.031	VV	3908	67856	7.97%	0.243%
167	11.039	11.031	11.067	VV	461	6753	0.79%	0.024%
168	11.069	11.067	11.085	VV	170	1052	0.12%	0.004%
169	11.117	11.085	11.124	PV	269	3337	0.39%	0.012%
170	11.132	11.124	11.150	VV	256	2957	0.35%	0.011%
171	11.171	11.150	11.197	VV	949	13481	1.58%	0.048%
172	11.202	11.197	11.223	VV	221	2401	0.28%	0.009%
173	11.245	11.223	11.249	VV	478	4626	0.54%	0.017%
174	11.255	11.249	11.287	VV	498	7700	0.90%	0.028%
175	11.314	11.287	11.357	VV	685	15367	1.80%	0.055%
176	11.377	11.357	11.406	VV	347	6339	0.74%	0.023%
177	11.428	11.406	11.441	VV	258	3546	0.42%	0.013%
178	11.445	11.441	11.466	VV	227	3031	0.36%	0.011%
179	11.482	11.466	11.506	VV	409	5817	0.68%	0.021%
180	11.531	11.506	11.544	VV	347	5279	0.62%	0.019%
181	11.560	11.544	11.597	VV	394	8918	1.05%	0.032%
182	11.602	11.597	11.605	VV	214	939	0.11%	0.003%
183	11.624	11.605	11.657	VV	966	15523	1.82%	0.056%
184	11.661	11.657	11.681	VV	288	3380	0.40%	0.012%
185	11.717	11.681	11.755	VV	1440	26516	3.11%	0.095%
186	11.767	11.755	11.772	VV	229	1602	0.19%	0.006%
187	11.776	11.772	11.783	VV	197	1120	0.13%	0.004%
188	11.787	11.783	11.801	VV	101	879	0.10%	0.003%
189	11.827	11.801	11.851	PV	349	4980	0.58%	0.018%
190	11.866	11.851	11.882	VV	194	2499	0.29%	0.009%
191	11.920	11.882	11.937	VV	343	7524	0.88%	0.027%
192	11.940	11.937	11.957	VV	239	2451	0.29%	0.009%
193	11.976	11.957	11.990	VV	612	7521	0.88%	0.027%
194	12.009	11.990	12.044	VV	678	12300	1.44%	0.044%

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195	12.051	12.044	12.056	VV	172	967	0.11%	0.003%
196	12.066	12.056	12.095	VV	246	4588	0.54%	0.016%
197	12.121	12.095	12.137	VV	435	8189	0.96%	0.029%
198	12.157	12.137	12.174	VV	389	5472	0.64%	0.020%
199	12.179	12.174	12.188	VV	226	1354	0.16%	0.005%
200	12.195	12.188	12.208	VV	142	1264	0.15%	0.005%
201	12.222	12.208	12.230	VV	153	1568	0.18%	0.006%
202	12.236	12.230	12.250	VV	172	1691	0.20%	0.006%
203	12.277	12.250	12.281	VV	555	6013	0.71%	0.022%
204	12.297	12.281	12.328	VV	734	13067	1.53%	0.047%
205	12.344	12.328	12.352	VV	223	2643	0.31%	0.009%
206	12.357	12.352	12.366	VV	175	1243	0.15%	0.004%
207	12.375	12.366	12.394	VV	207	2721	0.32%	0.010%
208	12.421	12.394	12.458	VV	282	6675	0.78%	0.024%
209	12.463	12.458	12.472	VV	141	940	0.11%	0.003%
210	12.495	12.472	12.500	VV	214	2525	0.30%	0.009%
211	12.505	12.500	12.519	VV	269	2473	0.29%	0.009%
212	12.548	12.519	12.586	VV	765	18087	2.12%	0.065%
213	12.592	12.586	12.619	VV	387	5899	0.69%	0.021%
214	12.623	12.619	12.648	VV	313	4380	0.51%	0.016%
215	12.655	12.648	12.667	VV	274	2533	0.30%	0.009%
216	12.670	12.667	12.693	VV	242	3256	0.38%	0.012%
217	12.716	12.693	12.750	VV	336	7803	0.92%	0.028%
218	12.765	12.750	12.810	VV	385	8422	0.99%	0.030%
219	12.814	12.810	12.825	VV	118	949	0.11%	0.003%
220	12.879	12.825	12.903	VV	492	12411	1.46%	0.044%
221	12.908	12.903	12.911	VV	290	1360	0.16%	0.005%
222	12.916	12.911	12.921	VV	302	1524	0.18%	0.005%
223	12.939	12.921	12.962	VV	646	10141	1.19%	0.036%
224	12.967	12.962	12.972	VV	224	996	0.12%	0.004%
225	12.994	12.972	13.002	VV	332	4664	0.55%	0.017%
226	13.009	13.002	13.046	VV	314	5095	0.60%	0.018%
227	13.056	13.046	13.107	VV	176	4293	0.50%	0.015%
228	13.119	13.107	13.151	VV	95	2031	0.24%	0.007%
229	13.166	13.151	13.180	VV	127	1610	0.19%	0.006%
230	13.188	13.180	13.193	VV	170	940	0.11%	0.003%
231	13.216	13.193	13.269	VV	369	7385	0.87%	0.026%
232	13.272	13.269	13.276	VV	106	327	0.04%	0.001%
233	13.290	13.276	13.322	VV	249	4054	0.48%	0.015%
234	13.330	13.322	13.354	VV	151	2088	0.25%	0.007%
235	13.358	13.354	13.373	VV	148	1251	0.15%	0.004%
236	13.377	13.373	13.380	VV	116	441	0.05%	0.002%
237	13.392	13.380	13.397	VV	152	1288	0.15%	0.005%
238	13.400	13.397	13.417	VV	161	1465	0.17%	0.005%
239	13.439	13.417	13.455	VV	285	4833	0.57%	0.017%
240	13.463	13.455	13.474	VV	204	1907	0.22%	0.007%
241	13.481	13.474	13.489	VV	213	1495	0.18%	0.005%
242	13.494	13.489	13.514	VV	186	1844	0.22%	0.007%
243	13.519	13.514	13.525	VV	85	356	0.04%	0.001%
244	13.555	13.525	13.610	PV	382	10249	1.20%	0.037%
245	13.625	13.610	13.644	VV	268	3533	0.41%	0.013%
246	13.660	13.644	13.673	VV	148	1901	0.22%	0.007%

					rteres			
247	13.691	13.673	13.702	VV	136	1725	0.20%	0.006%
248	13.725	13.702	13.745	VV	248	4058	0.48%	0.015%
249	13.793	13.745	13.812	VV	244	6571	0.77%	0.024%
250	13.817	13.812	13.829	VV	199	1414	0.17%	0.005%
251	13.834	13.829	13.867	VV	148	2423	0.28%	0.009%
252	13.873	13.867	13.884	VV	168	1418	0.17%	0.005%
253	13.891	13.884	13.906	VV	179	1538	0.18%	0.006%
254	13.910	13.906	13.925	VV	112	1057	0.12%	0.004%
255	13.929	13.925	13.937	VV	135	845	0.10%	0.003%
256	13.956	13.937	13.973	VV	312	5080	0.60%	0.018%
257	13.981	13.973	13.989	VV	185	1611	0.19%	0.006%
258	14.011	13.989	14.040	VV	211	4183	0.49%	0.015%
259	14.049	14.040	14.067	VV	137	1743	0.20%	0.006%
260	14.090	14.067	14.120	VV	199	4119	0.48%	0.015%
261	14.139	14.120	14.188	VV	359	6807	0.80%	0.024%
262	14.196	14.188	14.225	VV	134	1973	0.23%	0.007%
263	14.232	14.225	14.240	VV	151	866	0.10%	0.003%
264	14.246	14.240	14.294	VV	129	2121	0.25%	0.008%
265	14.299	14.294	14.317	VV	79	536	0.06%	0.002%
266	14.322	14.317	14.326	PV	67	168	0.02%	0.001%
267	14.344	14.326	14.350	VV	143	1201	0.14%	0.004%
268	14.359	14.350	14.363	VV	181	1035	0.12%	0.004%
269	14.368	14.363	14.372	VV	229	913	0.11%	0.003%
270	14.382	14.372	14.401	VV	248	2885	0.34%	0.010%
271	14.408	14.401	14.429	VV	137	1669	0.20%	0.006%
272	14.445	14.429	14.456	VV	122	1573	0.18%	0.006%
273	14.461	14.456	14.473	VV	113	703	0.08%	0.003%
274	14.486	14.473	14.497	VV	110	1419	0.17%	0.005%
275	14.511	14.497	14.524	VV	148	2102	0.25%	0.008%
276	14.529	14.524	14.542	VV	178	1551	0.18%	0.006%
277	14.545	14.542	14.575	VV	150	1521	0.18%	0.005%
278	14.587	14.575	14.597	VV	105	1108	0.13%	0.004%
279	14.605	14.597	14.610	VV	108	687	0.08%	0.002%
280	14.619	14.610	14.631	VV	164	1252	0.15%	0.004%
281	14.636	14.631	14.642	VV	88	462	0.05%	0.002%
282	14.648	14.642	14.668	VV	106	1177	0.14%	0.004%
283	14.696	14.668	14.702	VV	246	2208	0.26%	0.008%
284	14.706	14.702	14.723	VV	255	1978	0.23%	0.007%
285	14.728	14.723	14.744	VV	109	1128	0.13%	0.004%
286	14.749	14.744	14.752	VV	107	330	0.04%	0.001%
287	14.770	14.752	14.789	VV	255	3721	0.44%	0.013%
288	14.795	14.789	14.819	VV	153	1963	0.23%	0.007%
289	14.831	14.819	14.837	VV	155	1269	0.15%	0.005%
290	14.842	14.837	14.852	VV	221	1473	0.17%	0.005%
291	14.869	14.852	14.890	VV	287	4551	0.53%	0.016%
292	14.897	14.890	14.912	VV	78	824	0.10%	0.003%
293	14.917	14.912	14.942	PV	95	1045	0.12%	0.004%
294	14.947	14.942	14.954	VV	109	518	0.06%	0.002%
295	14.980	14.954	14.992	VV	135	2021	0.24%	0.007%
296	14.997	14.992	15.004	VV	107	541	0.06%	0.002%
297	15.038	15.004	15.074	VV	3021	44414	5.21%	0.159%
298	15.082	15.074	15.112	VV	207	2529	0.30%	0.009%
299	15.126	15.112	15.132	PV	97	805	0.09%	0.003%

					rteres			
300	15.134	15.132	15.152	VV	86	581	0.07%	0.002%
301	15.199	15.152	15.204	VV	109	2124	0.25%	0.008%
302	15.241	15.204	15.270	VV	480	10597	1.24%	0.038%
303	15.288	15.270	15.317	VV	389	5630	0.66%	0.020%
304	15.332	15.317	15.338	VV	151	1369	0.16%	0.005%
305	15.341	15.338	15.360	VV	148	1251	0.15%	0.004%
306	15.365	15.360	15.370	VV	92	485	0.06%	0.002%
307	15.375	15.370	15.403	VV	129	1702	0.20%	0.006%
308	15.417	15.403	15.424	VV	168	882	0.10%	0.003%
309	15.436	15.424	15.444	VV	96	789	0.09%	0.003%
310	15.451	15.444	15.457	VV	94	425	0.05%	0.002%
311	15.485	15.457	15.514	VV	108	2127	0.25%	0.008%
312	15.515	15.514	15.534	VV	76	536	0.06%	0.002%
313	15.539	15.534	15.554	VV	98	483	0.06%	0.002%
314	15.564	15.554	15.568	VV	68	397	0.05%	0.001%
315	15.576	15.568	15.582	VV	95	484	0.06%	0.002%
316	15.622	15.582	15.649	PV	434	7688	0.90%	0.028%
317	15.671	15.649	15.701	VV	296	6589	0.77%	0.024%
318	15.707	15.701	15.714	VV	177	1024	0.12%	0.004%
319	15.718	15.714	15.745	VV	159	1870	0.22%	0.007%
320	15.761	15.745	15.795	VV	304	5141	0.60%	0.018%
321	15.838	15.795	15.877	VV	289	6053	0.71%	0.022%
322	15.889	15.877	15.899	VV	116	934	0.11%	0.003%
323	15.904	15.899	15.918	VV	106	609	0.07%	0.002%
324	15.927	15.918	15.932	VV	79	341	0.04%	0.001%
325	15.940	15.932	15.952	PV	97	697	0.08%	0.002%
326	15.971	15.952	15.979	VV	95	859	0.10%	0.003%
327	15.991	15.979	15.995	VV	105	602	0.07%	0.002%
328	16.000	15.995	16.017	VV	112	827	0.10%	0.003%
329	16.046	16.017	16.087	VV	249	4704	0.55%	0.017%
330	16.093	16.087	16.107	VV	97	701	0.08%	0.003%
331	16.111	16.107	16.117	VV	137	394	0.05%	0.001%
332	16.135	16.117	16.154	VV	148	1891	0.22%	0.007%
333	16.164	16.154	16.172	VV	102	896	0.11%	0.003%
334	16.183	16.172	16.204	VV	110	1401	0.16%	0.005%
335	16.209	16.204	16.219	VV	97	404	0.05%	0.001%
336	16.232	16.219	16.239	VV	105	830	0.10%	0.003%
337	16.266	16.239	16.296	VV	386	6171	0.72%	0.022%
338	16.302	16.296	16.307	VV	98	318	0.04%	0.001%
339	16.312	16.307	16.318	PV	101	438	0.05%	0.002%
340	16.327	16.318	16.366	VV	86	1093	0.13%	0.004%
341	16.414	16.366	16.437	VV	192	4156	0.49%	0.015%
342	16.446	16.437	16.459	VV	167	1579	0.19%	0.006%
343	16.465	16.459	16.495	VV	130	1609	0.19%	0.006%
344	16.508	16.495	16.555	PV	101	1704	0.20%	0.006%
345	16.562	16.555	16.570	VV	144	779	0.09%	0.003%
346	16.578	16.570	16.610	VV	102	1119	0.13%	0.004%
347	16.620	16.610	16.627	VV	80	482	0.06%	0.002%
348	16.636	16.627	16.644	VV	113	722	0.08%	0.003%
349	16.648	16.644	16.675	VV	76	651	0.08%	0.002%
350	16.685	16.675	16.690	PV	91	442	0.05%	0.002%
351	16.699	16.690	16.727	VV	104	1807	0.21%	0.006%

					rteres				
352	16.750	16.727	16.774	VV	626	8859	1.04%	0.032%	
353	16.797	16.774	16.813	VV	220	3435	0.40%	0.012%	
354	16.817	16.813	16.824	VV	164	878	0.10%	0.003%	
355	16.829	16.824	16.850	VV	176	1660	0.19%	0.006%	
356	16.861	16.850	16.871	VV	117	877	0.10%	0.003%	
357	16.875	16.871	16.901	VV	112	1294	0.15%	0.005%	
358	16.916	16.901	16.930	VV	147	1505	0.18%	0.005%	
359	16.936	16.930	16.957	VV	106	894	0.10%	0.003%	
360	16.980	16.957	16.995	VV	101	1102	0.13%	0.004%	
361	17.020	16.995	17.034	PV	118	1599	0.19%	0.006%	
362	17.048	17.034	17.086	VV	119	2569	0.30%	0.009%	
363	17.116	17.086	17.142	VV	262	4501	0.53%	0.016%	
364	17.176	17.142	17.192	VV	249	4475	0.53%	0.016%	
365	17.215	17.192	17.252	VV	949	14404	1.69%	0.052%	
366	17.268	17.252	17.284	VV	172	2255	0.26%	0.008%	
367	17.287	17.284	17.296	VV	118	603	0.07%	0.002%	
368	17.300	17.296	17.309	VV	97	448	0.05%	0.002%	
369	17.325	17.309	17.337	VV	85	929	0.11%	0.003%	
370	17.345	17.337	17.350	VBA	82	-507	-0.06%	-0.002%	

Sum of corrected areas: 27952388

FG111324.M Tue Nov 19 02:36:08 2024

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-15		SDG No.:	P4839	
Lab Sample ID:	P4839-07		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	82.7	Decanted:
Sample Wt/Vol:	30.08	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	Diesel Range Organics	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014852.D	5	11/14/24 13:15	11/18/24 15:18	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	87800		1120	10100	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	2.11		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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014852.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 15:18
Operator : YP\AJ
Sample : P4839-07 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-15

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: autoint1.e
Quant Time: Nov 19 01:31:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.039	236630	2.110 ug/mlm

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014852.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 15:18
Operator : YP\AJ
Sample : P4839-07 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

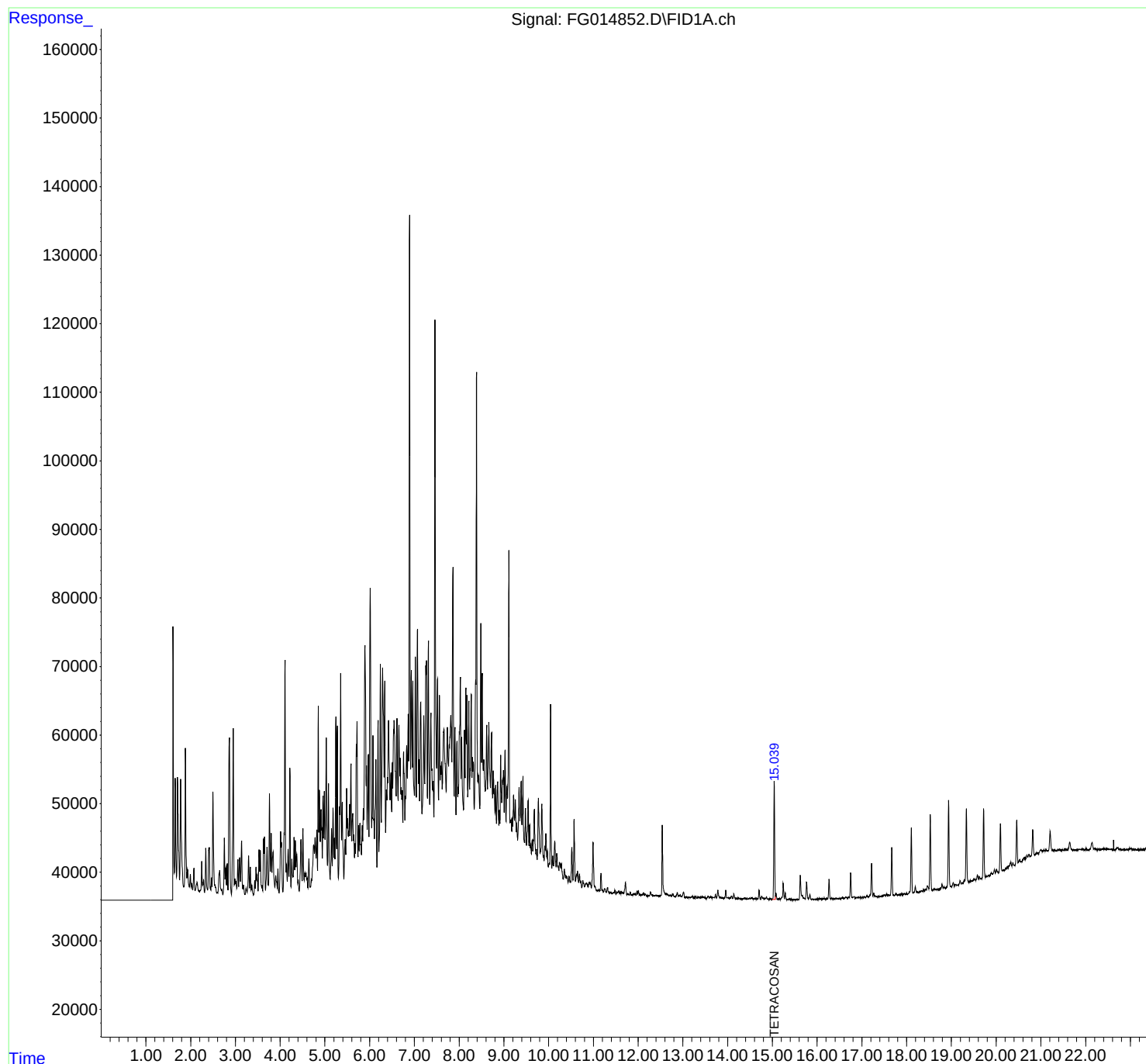
Instrument :
FID_G
ClientSampleId :
EX-9-TPH-15

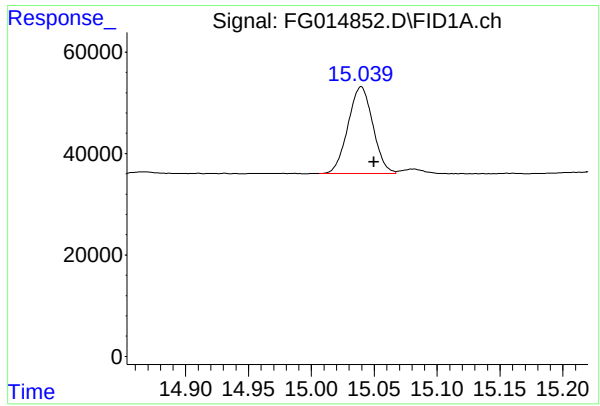
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: autoint1.e
Quant Time: Nov 19 01:31:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.039 min
Delta R.T.: -0.011 min
Response: 236630
Conc: 2.11 ug/ml

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-15

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-15

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824
Data File : FG014852.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 15:18
Sample : P4839-07 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.465	4.418	4.491	BV	7228	124704	8.11%	0.227%
2	4.509	4.491	4.535	VV	8801	115985	7.54%	0.211%
3	4.552	4.535	4.567	VV	2406	37388	2.43%	0.068%
4	4.579	4.567	4.593	VV	2315	30969	2.01%	0.056%
5	4.602	4.593	4.619	VV	1595	16203	1.05%	0.029%
6	4.643	4.619	4.666	VV	4491	58257	3.79%	0.106%
7	4.674	4.666	4.682	VV	375	3199	0.21%	0.006%
8	4.700	4.682	4.708	VV	1437	16130	1.05%	0.029%
9	4.748	4.708	4.767	VV	6439	157699	10.25%	0.287%
10	4.781	4.767	4.804	VV	7537	135225	8.79%	0.246%
11	4.820	4.804	4.835	VV	8706	114578	7.45%	0.208%
12	4.852	4.835	4.867	VV	26791	281933	18.33%	0.512%
13	4.877	4.867	4.896	VV	14512	193719	12.60%	0.352%
14	4.913	4.896	4.926	VV	11674	170959	11.12%	0.311%
15	4.930	4.926	4.943	VV	8802	76568	4.98%	0.139%
16	4.958	4.943	4.972	VV	13691	164322	10.68%	0.299%
17	4.988	4.972	5.004	VV	14339	204818	13.32%	0.372%
18	5.032	5.004	5.059	VV	22173	383188	24.91%	0.696%
19	5.080	5.059	5.117	VV	15458	236474	15.38%	0.430%
20	5.148	5.117	5.164	VV	8927	139557	9.07%	0.254%
21	5.183	5.164	5.202	VV	11922	175295	11.40%	0.319%
22	5.214	5.202	5.225	VV	7566	82481	5.36%	0.150%
23	5.245	5.225	5.261	VV	25284	302790	19.69%	0.550%
24	5.278	5.261	5.302	VV	23961	277114	18.02%	0.504%
25	5.329	5.302	5.336	VV	12159	147942	9.62%	0.269%
26	5.354	5.336	5.373	VV	31571	393902	25.61%	0.716%
27	5.388	5.373	5.425	VV	12827	230095	14.96%	0.418%
28	5.454	5.425	5.467	VV	7394	132699	8.63%	0.241%
29	5.487	5.467	5.501	VV	14861	214711	13.96%	0.390%
30	5.509	5.501	5.521	VV	10488	115667	7.52%	0.210%
31	5.528	5.521	5.537	VV	8627	75521	4.91%	0.137%
32	5.552	5.537	5.565	VV	12547	175992	11.44%	0.320%
33	5.582	5.565	5.599	VV	18424	261973	17.03%	0.476%
34	5.623	5.599	5.639	VV	11209	225576	14.67%	0.410%
35	5.647	5.639	5.662	VV	8112	94559	6.15%	0.172%
36	5.675	5.662	5.685	VV	6844	81831	5.32%	0.149%

Parameters									
37	5.703	5.685	5.709	VV	21264	208847	13.58%	0.380%	
38	5.719	5.709	5.739	VV	24633	300048	19.84%	0.372%	
39	5.754	5.739	5.767	VV	9501	125400	8.77%	0.372%	
40	5.783	5.767	5.817	VV	9822	213283	13.58%	0.380%	
41	5.835	5.817	5.846	VV	9505	135046	8.77%	0.372%	
42	5.859	5.846	5.868	VV	12017	136170	8.77%	0.372%	
43	5.895	5.868	5.923	VV	35734	809333	52.62%	1.471%	
44	5.931	5.923	5.946	VV	18261	204930	13.32%	0.372%	
45	5.970	5.946	5.985	VV	19879	316442	20.57%	0.575%	
46	6.013	5.985	6.046	VV	44110	910057	59.17%	1.654%	
47	6.075	6.046	6.108	VV	22661	483445	31.43%	0.879%	
48	6.140	6.108	6.164	VV	19147	388228	25.24%	0.706%	
49	6.188	6.164	6.208	VV	24868	326521	21.23%	0.593%	
50	6.240	6.208	6.260	VV	33051	513495	33.39%	0.933%	
51	6.290	6.260	6.325	VV	32591	889080	57.81%	1.616%	
52	6.338	6.325	6.358	VV	30633	395774	25.73%	0.719%	
53	6.375	6.358	6.387	VV	14769	220554	14.34%	0.401%	
54	6.399	6.387	6.404	VV	16628	161606	10.51%	0.294%	
55	6.424	6.404	6.457	VV	24950	609530	39.63%	1.108%	
56	6.476	6.457	6.493	VV	17275	324917	21.13%	0.590%	
57	6.508	6.493	6.518	VV	18812	233234	15.16%	0.424%	
58	6.548	6.518	6.592	VV	24918	904503	58.81%	1.644%	
59	6.612	6.592	6.636	VV	25244	489071	31.80%	0.889%	
60	6.655	6.636	6.673	VV	24270	435437	28.31%	0.791%	
61	6.682	6.673	6.700	VV	19459	273308	17.77%	0.497%	
62	6.707	6.700	6.719	VV	15143	169793	11.04%	0.309%	
63	6.730	6.719	6.742	VV	14774	181309	11.79%	0.329%	
64	6.758	6.742	6.789	VV	20356	439450	28.57%	0.799%	
65	6.801	6.789	6.806	VV	13972	136235	8.86%	0.248%	
66	6.828	6.806	6.843	VV	21286	393261	25.57%	0.715%	
67	6.863	6.843	6.874	VV	25879	398711	25.92%	0.725%	
68	6.893	6.874	6.917	VV	98645	1304450	84.81%	2.371%	
69	6.932	6.917	6.953	VV	32282	542000	35.24%	0.985%	
70	6.966	6.953	7.003	VV	30732	598201	38.89%	1.087%	
71	7.023	7.003	7.044	VV	34307	562598	36.58%	1.022%	
72	7.068	7.044	7.095	VV	38345	777350	50.54%	1.413%	
73	7.105	7.095	7.118	VV	19352	232750	15.13%	0.423%	
74	7.140	7.118	7.171	VV	27658	638777	41.53%	1.161%	
75	7.212	7.171	7.232	VV	25719	630638	41.00%	1.146%	
76	7.256	7.232	7.262	VV	33025	455129	29.59%	0.827%	
77	7.271	7.262	7.292	VV	33840	463118	30.11%	0.842%	
78	7.313	7.292	7.344	VV	36639	698001	45.38%	1.268%	
79	7.369	7.344	7.407	VV	26116	710800	46.22%	1.292%	
80	7.419	7.407	7.437	VV	16211	262069	17.04%	0.476%	
81	7.461	7.437	7.497	VV	83496	1342315	87.28%	2.439%	
82	7.517	7.497	7.540	VV	31177	602972	39.20%	1.096%	
83	7.561	7.540	7.578	VV	28738	467742	30.41%	0.850%	
84	7.588	7.578	7.597	VV	18429	203915	13.26%	0.371%	
85	7.608	7.597	7.623	VV	19093	273589	17.79%	0.497%	
86	7.662	7.623	7.710	VV	23841	1023526	66.55%	1.860%	
87	7.738	7.710	7.764	VV	24094	639262	41.56%	1.162%	
88	7.778	7.764	7.784	VV	21561	249221	16.20%	0.453%	
89	7.814	7.784	7.837	VV	25783	732740	47.64%	1.332%	

Instrument :

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EX-9-TPH-15

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90	7.862	7.837	7.889	VV	47427	941539	61.22%	1.711%	
91	7.907	7.889	7.931	VV	24132	461790	30.00%	0.987%	
92	7.950	7.931	7.968	VV	22081	376184	24.00%	0.690%	
93	7.979	7.968	7.987	VV	15379	166196	10.00%	0.765%	
94	8.006	7.987	8.011	VV	23527	282759	18.00%	0.734%	
95	8.028	8.011	8.044	VV	31471	513971	33.00%	0.938%	
96	8.057	8.044	8.098	VV	22766	542865	35.30%	0.987%	
97	8.120	8.098	8.133	VV	23787	379694	24.69%	0.690%	
98	8.150	8.133	8.162	VV	29929	421109	27.38%	0.765%	
99	8.173	8.162	8.193	VV	28827	403977	26.27%	0.734%	
100	8.216	8.193	8.235	VV	28042	516022	33.55%	0.938%	
101	8.270	8.235	8.287	VV	28954	646922	42.06%	1.176%	
102	8.299	8.287	8.310	VV	19801	248450	16.15%	0.452%	
103	8.318	8.310	8.338	VV	19147	276624	17.99%	0.503%	
104	8.389	8.338	8.417	VV	76037	1538016	100.00%	2.795%	
105	8.433	8.417	8.461	VV	17214	413233	26.87%	0.751%	
106	8.487	8.461	8.503	VV	39424	652754	42.44%	1.186%	
107	8.516	8.503	8.540	VV	32115	523059	34.01%	0.951%	
108	8.553	8.540	8.582	VV	19489	443234	28.82%	0.805%	
109	8.617	8.582	8.635	VV	24628	586292	38.12%	1.065%	
110	8.665	8.635	8.701	VV	25007	760957	49.48%	1.383%	
111	8.726	8.701	8.747	VV	23496	529874	34.45%	0.963%	
112	8.765	8.747	8.779	VV	17958	302455	19.67%	0.550%	
113	8.786	8.779	8.801	VV	15368	188093	12.23%	0.342%	
114	8.817	8.801	8.834	VV	15861	259468	16.87%	0.472%	
115	8.861	8.834	8.888	VV	16395	426349	27.72%	0.775%	
116	8.900	8.888	8.911	VV	12244	154048	10.02%	0.280%	
117	8.930	8.911	8.954	VV	20250	397254	25.83%	0.722%	
118	8.971	8.954	8.980	VV	16681	237631	15.45%	0.432%	
119	8.992	8.980	9.008	VV	18057	273985	17.81%	0.498%	
120	9.027	9.008	9.049	VV	21054	391489	25.45%	0.711%	
121	9.067	9.049	9.079	VV	15690	253471	16.48%	0.461%	
122	9.113	9.079	9.136	VV	50185	849598	55.24%	1.544%	
123	9.142	9.136	9.149	VV	10725	80759	5.25%	0.147%	
124	9.160	9.149	9.176	VV	10860	167071	10.86%	0.304%	
125	9.189	9.176	9.201	VV	11069	153038	9.95%	0.278%	
126	9.216	9.201	9.237	VV	14497	265658	17.27%	0.483%	
127	9.258	9.237	9.276	VV	13826	278269	18.09%	0.506%	
128	9.289	9.276	9.308	VV	10307	178964	11.64%	0.325%	
129	9.341	9.308	9.358	VV	15597	346606	22.54%	0.630%	
130	9.386	9.358	9.403	VV	16476	344043	22.37%	0.625%	
131	9.426	9.403	9.462	VV	17249	396635	25.79%	0.721%	
132	9.483	9.462	9.506	VV	12590	249722	16.24%	0.454%	
133	9.542	9.506	9.561	VV	13754	328467	21.36%	0.597%	
134	9.575	9.561	9.591	VV	10179	150859	9.81%	0.274%	
135	9.599	9.591	9.614	VV	7286	91617	5.96%	0.166%	
136	9.633	9.614	9.647	VV	7993	142976	9.30%	0.260%	
137	9.681	9.647	9.716	VV	12488	343490	22.33%	0.624%	
138	9.727	9.716	9.745	VV	6668	102263	6.65%	0.186%	
139	9.772	9.745	9.810	VV	14138	358145	23.29%	0.651%	
140	9.847	9.810	9.883	VV	13253	373386	24.28%	0.679%	
141	9.887	9.883	9.899	VV	5677	52873	3.44%	0.096%	

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					rters			
142	9.917	9.899	9.925	VV	7068	96697	6.29%	0.176%
143	9.940	9.925	9.959	VV	8987	151739		
144	9.970	9.959	9.994	VV	6477	112014		
145	10.014	9.994	10.021	VV	4632	72192		
146	10.044	10.021	10.073	VV	27799	370048	24.52%	0.350%
147	10.090	10.073	10.110	VV	5712	109990		
148	10.137	10.110	10.165	VV	7936	192523	12.52%	0.350%
149	10.183	10.165	10.203	VV	6092	116483	7.57%	0.212%
150	10.212	10.203	10.229	VV	4303	62413	4.06%	0.113%
151	10.247	10.229	10.271	VV	4797	110205	7.17%	0.200%
152	10.286	10.271	10.325	VV	4640	116033	7.54%	0.211%
153	10.352	10.325	10.384	VV	3844	106436	6.92%	0.193%
154	10.394	10.384	10.404	VV	2876	32666	2.12%	0.059%
155	10.413	10.404	10.434	VV	2705	44115	2.87%	0.080%
156	10.455	10.434	10.489	VV	2892	75203	4.89%	0.137%
157	10.519	10.489	10.544	VV	7033	129851	8.44%	0.236%
158	10.569	10.544	10.600	VV	11181	193943	12.61%	0.352%
159	10.622	10.600	10.631	VV	3147	51915	3.38%	0.094%
160	10.645	10.631	10.671	VV	3607	67917	4.42%	0.123%
161	10.689	10.671	10.709	VV	3154	56280	3.66%	0.102%
162	10.718	10.709	10.740	VV	2176	32664	2.12%	0.059%
163	10.765	10.740	10.803	VV	2282	66123	4.30%	0.120%
164	10.828	10.803	10.838	VV	1834	34186	2.22%	0.062%
165	10.850	10.838	10.881	VV	1906	43671	2.84%	0.079%
166	10.901	10.881	10.915	VV	2078	35984	2.34%	0.065%
167	10.920	10.915	10.924	VV	1846	9865	0.64%	0.018%
168	10.934	10.924	10.955	VV	1921	30426	1.98%	0.055%
169	10.993	10.955	11.088	VV	7851	194116	12.62%	0.353%
170	11.109	11.088	11.126	VV	977	19680	1.28%	0.036%
171	11.133	11.126	11.147	VV	991	11356	0.74%	0.021%
172	11.169	11.147	11.225	VV	3398	66230	4.31%	0.120%
173	11.251	11.225	11.282	VV	1167	31262	2.03%	0.057%
174	11.316	11.282	11.369	VV	1313	41935	2.73%	0.076%
175	11.375	11.369	11.379	VV	622	3405	0.22%	0.006%
176	11.393	11.379	11.421	VV	681	13656	0.89%	0.025%
177	11.443	11.421	11.447	VV	601	8070	0.52%	0.015%
178	11.454	11.447	11.461	VV	609	4960	0.32%	0.009%
179	11.479	11.461	11.502	VV	966	17240	1.12%	0.031%
180	11.530	11.502	11.548	VV	706	16041	1.04%	0.029%
181	11.562	11.548	11.612	VV	827	25053	1.63%	0.046%
182	11.622	11.612	11.636	VV	789	9304	0.60%	0.017%
183	11.649	11.636	11.678	VV	675	14499	0.94%	0.026%
184	11.716	11.678	11.746	VV	2126	45548	2.96%	0.083%
185	11.749	11.746	11.753	VV	373	1449	0.09%	0.003%
186	11.769	11.753	11.801	VV	483	11306	0.74%	0.021%
187	11.825	11.801	11.851	VV	746	13362	0.87%	0.024%
188	11.869	11.851	11.879	VV	419	5662	0.37%	0.010%
189	11.893	11.879	11.910	VV	490	7898	0.51%	0.014%
190	11.917	11.910	11.928	VV	485	4946	0.32%	0.009%
191	11.939	11.928	11.953	VV	473	6288	0.41%	0.011%
192	11.975	11.953	11.991	VV	934	13557	0.88%	0.025%
193	12.005	11.991	12.032	VV	956	15244	0.99%	0.028%
194	12.038	12.032	12.060	VV	423	5620	0.37%	0.010%

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195	12.073	12.060	12.080	VV	426	4250	0.28%	0.008%
196	12.082	12.080	12.094	VV	425	3234		
197	12.117	12.094	12.139	VV	651	13637		
198	12.154	12.139	12.198	VV	559	13193		
199	12.229	12.198	12.253	VV	341	7897		
200	12.279	12.253	12.300	VV	798	15644		
201	12.314	12.300	12.330	VV	463	6254	0.41%	0.011%
202	12.340	12.330	12.357	VV	346	4622	0.30%	0.008%
203	12.381	12.357	12.396	VV	392	7354	0.48%	0.013%
204	12.405	12.396	12.413	VV	368	3299	0.21%	0.006%
205	12.419	12.413	12.446	VV	366	5867	0.38%	0.011%
206	12.451	12.446	12.472	VV	335	4030	0.26%	0.007%
207	12.479	12.472	12.487	VV	297	2081	0.14%	0.004%
208	12.510	12.487	12.514	VV	408	5331	0.35%	0.010%
209	12.539	12.514	12.609	VV	10644	154983	10.08%	0.282%
210	12.628	12.609	12.645	VV	681	12584	0.82%	0.023%
211	12.655	12.645	12.675	VV	568	8765	0.57%	0.016%
212	12.678	12.675	12.689	VV	435	3255	0.21%	0.006%
213	12.699	12.689	12.704	VV	400	3411	0.22%	0.006%
214	12.722	12.704	12.746	VV	505	9400	0.61%	0.017%
215	12.767	12.746	12.783	VV	629	10355	0.67%	0.019%
216	12.786	12.783	12.832	VV	486	7904	0.51%	0.014%
217	12.876	12.832	12.899	VV	845	18765	1.22%	0.034%
218	12.916	12.899	12.924	VV	465	5768	0.38%	0.010%
219	12.938	12.924	12.960	VV	499	8360	0.54%	0.015%
220	12.967	12.960	12.979	VV	310	2919	0.19%	0.005%
221	13.014	12.979	13.046	VV	918	20328	1.32%	0.037%
222	13.052	13.046	13.056	VV	219	1007	0.07%	0.002%
223	13.064	13.056	13.072	VV	241	2082	0.14%	0.004%
224	13.081	13.072	13.098	VV	252	2942	0.19%	0.005%
225	13.110	13.098	13.130	VV	202	3193	0.21%	0.006%
226	13.137	13.130	13.147	VV	197	1661	0.11%	0.003%
227	13.154	13.147	13.161	VV	201	1315	0.09%	0.002%
228	13.168	13.161	13.172	VV	176	967	0.06%	0.002%
229	13.215	13.172	13.240	VV	313	9306	0.61%	0.017%
230	13.243	13.240	13.262	VV	184	1906	0.12%	0.003%
231	13.272	13.262	13.276	VV	164	1031	0.07%	0.002%
232	13.293	13.276	13.319	VV	408	5905	0.38%	0.011%
233	13.350	13.319	13.371	VV	287	6806	0.44%	0.012%
234	13.382	13.371	13.406	VV	256	4080	0.27%	0.007%
235	13.415	13.406	13.419	VV	183	1281	0.08%	0.002%
236	13.437	13.419	13.453	VV	334	5458	0.35%	0.010%
237	13.458	13.453	13.462	VV	273	1293	0.08%	0.002%
238	13.467	13.462	13.481	VV	277	2369	0.15%	0.004%
239	13.496	13.481	13.518	VV	290	3657	0.24%	0.007%
240	13.558	13.518	13.563	PV	379	5027	0.33%	0.009%
241	13.571	13.563	13.594	VV	406	5739	0.37%	0.010%
242	13.626	13.594	13.650	VV	417	8976	0.58%	0.016%
243	13.658	13.650	13.677	VV	208	3232	0.21%	0.006%
244	13.682	13.677	13.689	VV	231	1484	0.10%	0.003%
245	13.694	13.689	13.701	VV	226	1400	0.09%	0.003%
246	13.728	13.701	13.755	VV	682	11539	0.75%	0.021%

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					retention			
247	13.779	13.755	13.827	VV	1310	27398	1.78%	0.050%
248	13.831	13.827	13.865	VV	289	5017		
249	13.877	13.865	13.898	VV	247	4032		
250	13.904	13.898	13.910	VV	186	1006		
251	13.957	13.910	13.980	VV	1343	20475		
252	13.991	13.980	14.008	VV	249	3682		
253	14.019	14.008	14.027	VV	223	2272	0.15%	0.004%
254	14.031	14.027	14.043	VV	181	1504	0.10%	0.003%
255	14.090	14.043	14.113	VV	522	11041	0.72%	0.020%
256	14.137	14.113	14.190	VV	788	14688	0.95%	0.027%
257	14.197	14.190	14.205	VV	171	1237	0.08%	0.002%
258	14.210	14.205	14.220	VV	153	994	0.06%	0.002%
259	14.223	14.220	14.229	VV	164	821	0.05%	0.001%
260	14.231	14.229	14.241	VV	162	1121	0.07%	0.002%
261	14.251	14.241	14.267	VV	224	2732	0.18%	0.005%
262	14.273	14.267	14.278	VV	144	784	0.05%	0.001%
263	14.282	14.278	14.316	VV	155	1857	0.12%	0.003%
264	14.322	14.316	14.325	PV	35	116	0.01%	0.000%
265	14.376	14.325	14.398	PV	215	6085	0.40%	0.011%
266	14.403	14.398	14.418	VV	129	1150	0.07%	0.002%
267	14.425	14.418	14.431	VV	128	810	0.05%	0.001%
268	14.434	14.431	14.450	VV	128	928	0.06%	0.002%
269	14.457	14.450	14.463	VV	87	540	0.04%	0.001%
270	14.492	14.463	14.513	VV	201	4423	0.29%	0.008%
271	14.530	14.513	14.551	VV	308	5109	0.33%	0.009%
272	14.555	14.551	14.578	VV	193	2284	0.15%	0.004%
273	14.582	14.578	14.590	VV	137	827	0.05%	0.002%
274	14.601	14.590	14.607	VV	150	1177	0.08%	0.002%
275	14.621	14.607	14.630	VV	194	1793	0.12%	0.003%
276	14.633	14.630	14.641	VV	176	966	0.06%	0.002%
277	14.647	14.641	14.651	VV	158	758	0.05%	0.001%
278	14.655	14.651	14.673	VV	209	1791	0.12%	0.003%
279	14.702	14.673	14.743	VV	1422	21412	1.39%	0.039%
280	14.761	14.743	14.831	VV	509	13569	0.88%	0.025%
281	14.866	14.831	14.901	VV	429	8803	0.57%	0.016%
282	14.931	14.901	14.944	VV	152	2388	0.16%	0.004%
283	14.953	14.944	14.958	VV	113	714	0.05%	0.001%
284	14.977	14.958	14.996	VV	142	2245	0.15%	0.004%
285	15.040	14.996	15.068	VV	17270	240232	15.62%	0.437%
286	15.081	15.068	15.133	VV	967	14015	0.91%	0.025%
287	15.156	15.133	15.173	VV	154	2497	0.16%	0.005%
288	15.242	15.173	15.270	VV	2450	38392	2.50%	0.070%
289	15.286	15.270	15.327	VV	1062	15283	0.99%	0.028%
290	15.334	15.327	15.341	VV	129	825	0.05%	0.001%
291	15.343	15.341	15.357	VV	129	773	0.05%	0.001%
292	15.379	15.357	15.386	VV	163	1819	0.12%	0.003%
293	15.392	15.386	15.403	VV	124	846	0.06%	0.002%
294	15.408	15.403	15.417	VV	71	388	0.03%	0.001%
295	15.421	15.417	15.434	VV	93	615	0.04%	0.001%
296	15.438	15.434	15.442	VV	89	304	0.02%	0.001%
297	15.448	15.442	15.475	VV	121	1264	0.08%	0.002%
298	15.479	15.475	15.490	VV	68	502	0.03%	0.001%
299	15.492	15.490	15.497	VV	79	236	0.02%	0.000%

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-15

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

300	15.502	15.497	15.508	VV	107	363	0.02%	0.001%
301	15.513	15.508	15.521	PV	63	351		
302	15.536	15.521	15.554	VV	143	1763		
303	15.562	15.554	15.586	VV	98	1348		
304	15.622	15.586	15.659	VV	3617	60743		
305	15.664	15.659	15.734	VV	615	14677		
306	15.763	15.734	15.809	VV	2587	42869	2.79%	0.078%
307	15.837	15.809	15.870	VV	775	13174	0.86%	0.024%
308	15.878	15.870	15.883	VV	104	620	0.04%	0.001%
309	15.890	15.883	15.896	VV	103	606	0.04%	0.001%
310	15.904	15.896	15.922	VV	133	1196	0.08%	0.002%
311	15.930	15.922	15.951	VV	105	886	0.06%	0.002%
312	15.961	15.951	15.971	VV	92	544	0.04%	0.001%
313	15.979	15.971	16.014	VV	71	1007	0.07%	0.002%
314	16.055	16.014	16.067	VV	241	3745	0.24%	0.007%
315	16.090	16.067	16.111	VV	162	3003	0.20%	0.005%
316	16.134	16.111	16.166	PV	185	3669	0.24%	0.007%
317	16.170	16.166	16.195	VV	133	1154	0.08%	0.002%
318	16.205	16.195	16.209	VV	110	531	0.03%	0.001%
319	16.218	16.209	16.235	VV	127	1563	0.10%	0.003%
320	16.265	16.235	16.308	VV	2977	40505	2.63%	0.074%
321	16.324	16.308	16.368	VV	193	3062	0.20%	0.006%
322	16.384	16.368	16.393	VV	61	562	0.04%	0.001%
323	16.413	16.393	16.450	VV	183	3437	0.22%	0.006%
324	16.453	16.450	16.466	VV	87	602	0.04%	0.001%
325	16.485	16.466	16.493	VV	118	1029	0.07%	0.002%
326	16.498	16.493	16.525	VV	89	794	0.05%	0.001%
327	16.563	16.525	16.595	VV	172	3869	0.25%	0.007%
328	16.599	16.595	16.603	VV	48	162	0.01%	0.000%
329	16.635	16.603	16.691	PV	284	7048	0.46%	0.013%
330	16.715	16.691	16.722	VV	252	3326	0.22%	0.006%
331	16.748	16.722	16.786	VV	3780	52603	3.42%	0.096%
332	16.827	16.786	16.855	VV	297	7342	0.48%	0.013%
333	16.873	16.855	16.878	VV	134	1300	0.08%	0.002%
334	16.891	16.878	16.901	VV	140	1518	0.10%	0.003%
335	16.906	16.901	16.911	VV	126	596	0.04%	0.001%
336	16.917	16.911	16.936	VV	170	1562	0.10%	0.003%
337	16.943	16.936	16.950	VV	109	772	0.05%	0.001%
338	16.962	16.950	16.969	VV	124	871	0.06%	0.002%
339	16.974	16.969	16.998	PV	137	1462	0.10%	0.003%
340	17.019	16.998	17.029	VV	150	1771	0.12%	0.003%
341	17.049	17.029	17.073	VV	204	3778	0.25%	0.007%
342	17.113	17.073	17.138	VV	313	6335	0.41%	0.012%
343	17.151	17.138	17.158	VV	161	1635	0.11%	0.003%
344	17.182	17.158	17.190	VV	377	5290	0.34%	0.010%
345	17.215	17.190	17.243	VV	4983	72213	4.70%	0.131%
346	17.265	17.243	17.319	VV	631	12815	0.83%	0.023%
347	17.325	17.319	17.328	VV	107	438	0.03%	0.001%
348	17.332	17.328	17.348	VV	94	691	0.04%	0.001%

Sum of corrected areas: 55026575

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-15

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-16		SDG No.:	P4839	
Lab Sample ID:	P4839-08		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	83.7	Decanted:
Sample Wt/Vol:	30.06	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	Diesel Range Organics	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014811.D	1	11/14/24 13:15	11/15/24 20:51	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	31000		220	1990	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.8		37 - 130	59%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014811.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 20:51
Operator : YP\AJ
Sample : P4839-08
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-16

Integration File: autoint1.e
Quant Time: Nov 18 01:11:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.042	1319420	11.763 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

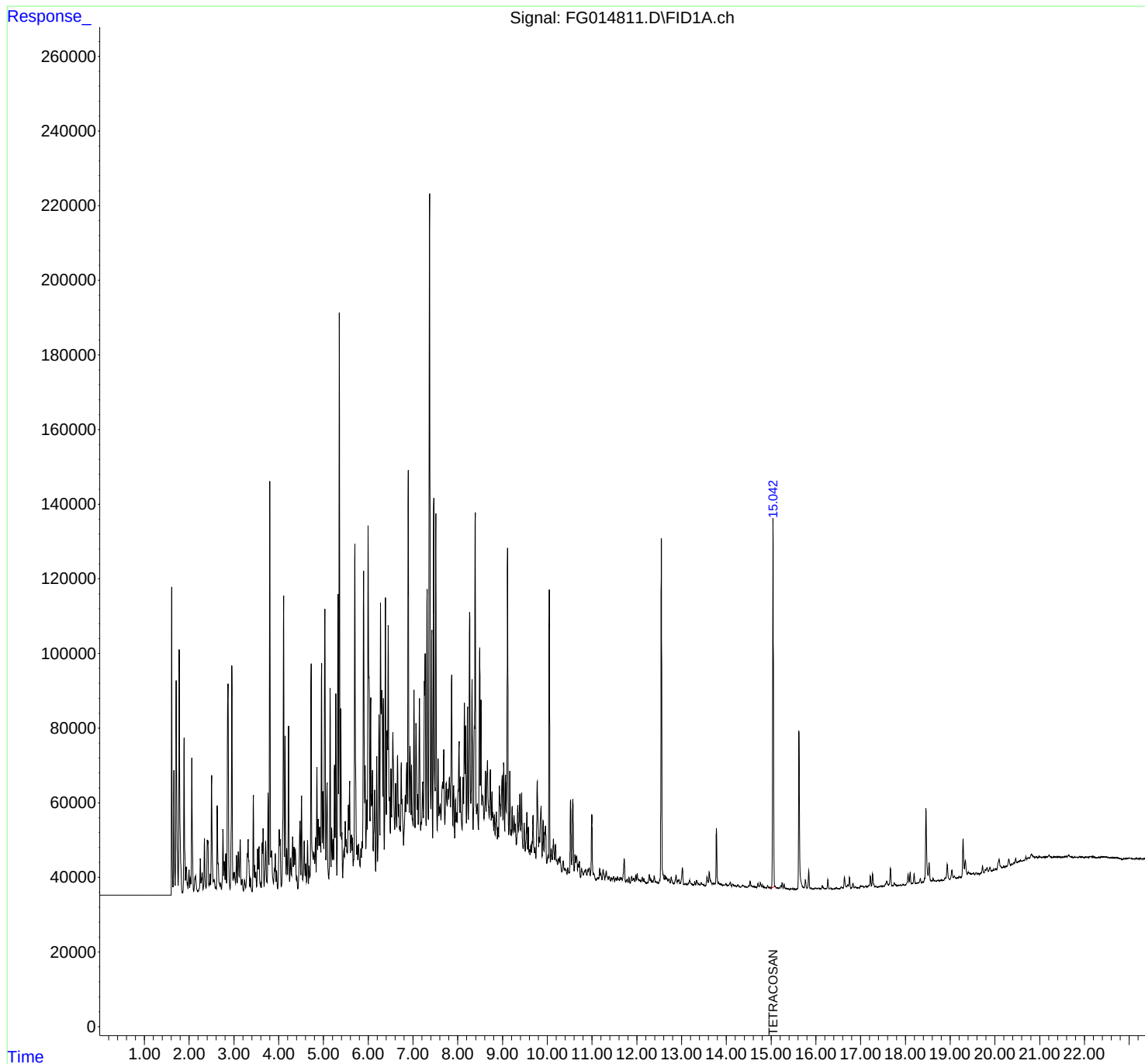
(m)=manual int.

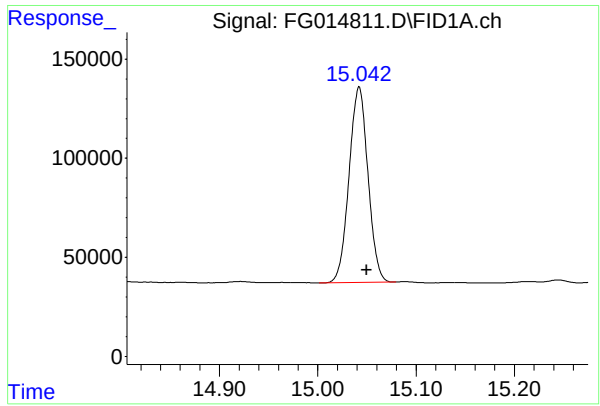
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014811.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 20:51
Operator : YP\AJ
Sample : P4839-08
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-16

Integration File: autoint1.e
Quant Time: Nov 18 01:11:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.042 min
Delta R.T.: -0.008 min
Response: 1319420
Conc: 11.76 ug/ml

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-16

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014811.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 20:51
Sample : P4839-08
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.510	4.494	4.537	VV	25662	320368	11.39%	0.324%
2	4.570	4.537	4.593	VV	13631	241683	8.60%	0.244%
3	4.606	4.593	4.624	VV	7469	95163	3.38%	0.096%
4	4.645	4.624	4.665	VV	13699	177570	6.32%	0.179%
5	4.680	4.665	4.694	VV	6854	82097	2.92%	0.083%
6	4.724	4.694	4.770	VV	61010	860120	30.59%	0.869%
7	4.783	4.770	4.805	VV	10649	195469	6.95%	0.197%
8	4.823	4.805	4.837	VV	14508	201670	7.17%	0.204%
9	4.854	4.837	4.868	VV	33347	367072	13.06%	0.371%
10	4.881	4.868	4.900	VV	19384	301753	10.73%	0.305%
11	4.914	4.900	4.941	VV	17260	336994	11.99%	0.340%
12	4.957	4.941	4.975	VV	60974	678372	24.13%	0.685%
13	4.989	4.975	5.006	VV	26779	364058	12.95%	0.368%
14	5.032	5.006	5.055	VV	75582	1128031	40.12%	1.139%
15	5.080	5.055	5.118	VV	29140	519532	18.48%	0.525%
16	5.150	5.118	5.169	VV	54446	632000	22.48%	0.638%
17	5.184	5.169	5.203	VV	16993	243186	8.65%	0.246%
18	5.215	5.203	5.228	VV	13932	167509	5.96%	0.169%
19	5.246	5.228	5.260	VV	33880	412150	14.66%	0.416%
20	5.276	5.260	5.301	VV	52995	689525	24.52%	0.696%
21	5.325	5.301	5.339	VV	79610	927510	32.99%	0.937%
22	5.355	5.339	5.374	VV	155048	1636731	58.21%	1.653%
23	5.389	5.374	5.406	VV	48973	568281	20.21%	0.574%
24	5.412	5.406	5.429	VV	15704	154379	5.49%	0.156%
25	5.457	5.429	5.467	VV	11180	191456	6.81%	0.193%
26	5.488	5.467	5.502	VV	18811	301693	10.73%	0.305%
27	5.511	5.502	5.524	VV	13989	162202	5.77%	0.164%
28	5.529	5.524	5.536	VV	10808	77497	2.76%	0.078%
29	5.558	5.536	5.570	VV	23133	349756	12.44%	0.353%
30	5.585	5.570	5.602	VV	29504	393731	14.00%	0.398%
31	5.625	5.602	5.639	VV	15133	287756	10.23%	0.291%
32	5.649	5.639	5.665	VV	14286	174440	6.20%	0.176%
33	5.701	5.665	5.742	VV	93028	1486198	52.86%	1.501%
34	5.754	5.742	5.768	VV	12229	165175	5.87%	0.167%
35	5.783	5.768	5.818	VV	12710	286652	10.20%	0.290%
36	5.837	5.818	5.848	VV	11453	168714	6.00%	0.170%

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37	5.861	5.848	5.870	VV	13369	152858	5.44%	0.154%
38	5.897	5.870	5.922	VV	85708	1361173	48.41%	1.375%
39	5.932	5.922	5.949	VV	33715	377091	13.41%	0.381%
40	5.971	5.949	5.981	VV	24516	359575	12.79%	0.363%
41	5.998	5.981	6.015	VV	97976	1270389	45.18%	1.283%
42	6.018	6.015	6.040	VV	57491	617255	21.95%	0.623%
43	6.055	6.040	6.068	VV	51865	592267	21.07%	0.598%
44	6.076	6.068	6.084	VV	26001	234713	8.35%	0.237%
45	6.095	6.084	6.112	VV	32429	387319	13.78%	0.391%
46	6.142	6.112	6.166	VV	27097	537402	19.11%	0.543%
47	6.191	6.166	6.209	VV	36046	476739	16.96%	0.482%
48	6.242	6.209	6.259	VV	47294	761048	27.07%	0.769%
49	6.276	6.259	6.291	VV	77165	979908	34.85%	0.990%
50	6.303	6.291	6.327	VV	53842	972412	34.59%	0.982%
51	6.340	6.327	6.359	VV	51667	625749	22.26%	0.632%
52	6.385	6.359	6.404	VV	78608	1077550	38.33%	1.088%
53	6.423	6.404	6.434	VV	43081	638746	22.72%	0.645%
54	6.448	6.434	6.472	VV	71236	1028617	36.59%	1.039%
55	6.478	6.472	6.494	VV	25168	292164	10.39%	0.295%
56	6.508	6.494	6.521	VV	32806	407565	14.50%	0.412%
57	6.551	6.521	6.592	VV	42547	1210197	43.04%	1.222%
58	6.612	6.592	6.636	VV	28910	574839	20.45%	0.581%
59	6.655	6.636	6.675	VV	36389	627258	22.31%	0.634%
60	6.685	6.675	6.701	VV	23280	313803	11.16%	0.317%
61	6.709	6.701	6.720	VV	17465	193802	6.89%	0.196%
62	6.738	6.720	6.752	VV	34366	500164	17.79%	0.505%
63	6.758	6.752	6.790	VV	24673	447593	15.92%	0.452%
64	6.828	6.790	6.840	VV	25781	583872	20.77%	0.590%
65	6.862	6.840	6.875	VV	34401	615842	21.90%	0.622%
66	6.895	6.875	6.918	VV	112675	1507898	53.63%	1.523%
67	6.935	6.918	6.955	VV	38849	668483	23.78%	0.675%
68	6.968	6.955	7.003	VV	33792	661023	23.51%	0.668%
69	7.023	7.003	7.045	VV	53852	818022	29.09%	0.826%
70	7.069	7.045	7.096	VV	44864	941994	33.50%	0.951%
71	7.106	7.096	7.119	VV	25859	309004	10.99%	0.312%
72	7.145	7.119	7.172	VV	51431	991827	35.28%	1.002%
73	7.215	7.172	7.233	VV	29233	787499	28.01%	0.795%
74	7.257	7.233	7.263	VV	56170	685771	24.39%	0.693%
75	7.273	7.263	7.294	VV	63614	816154	29.03%	0.824%
76	7.315	7.294	7.342	VV	80835	1241747	44.17%	1.254%
77	7.371	7.342	7.400	VV	186928	2811582	100.00%	2.840%
78	7.419	7.400	7.440	VV	69988	945570	33.63%	0.955%
79	7.463	7.440	7.493	VV	105235	1565339	55.67%	1.581%
80	7.511	7.493	7.543	VV	100881	1480161	52.65%	1.495%
81	7.563	7.543	7.579	VV	35400	563955	20.06%	0.570%
82	7.590	7.579	7.598	VV	22547	243882	8.67%	0.246%
83	7.610	7.598	7.625	VV	23336	348875	12.41%	0.352%
84	7.666	7.625	7.674	VV	29271	738664	26.27%	0.746%
85	7.687	7.674	7.713	VV	37855	664500	23.63%	0.671%
86	7.740	7.713	7.764	VV	28897	733192	26.08%	0.741%
87	7.778	7.764	7.788	VV	27225	369228	13.13%	0.373%
88	7.812	7.788	7.838	VV	30381	803072	28.56%	0.811%
89	7.864	7.838	7.891	VV	57844	1121470	39.89%	1.133%

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90	7.909	7.891	7.933	VV	28177	558284	19.86%	0.564%
91	7.951	7.933	7.968	VV	24473	416333	14.81%	0.420%
92	7.979	7.968	7.989	VV	20959	259230	9.22%	0.262%
93	8.030	7.989	8.046	VV	40081	960798	34.17%	0.970%
94	8.059	8.046	8.098	VV	30589	698315	24.84%	0.705%
95	8.120	8.098	8.132	VV	30507	494846	17.60%	0.500%
96	8.150	8.132	8.164	VV	50362	720203	25.62%	0.727%
97	8.175	8.164	8.195	VV	44221	597354	21.25%	0.603%
98	8.218	8.195	8.237	VV	49205	780742	27.77%	0.789%
99	8.265	8.237	8.291	VV	74636	1334727	47.47%	1.348%
100	8.320	8.291	8.343	VV	56623	1031789	36.70%	1.042%
101	8.390	8.343	8.421	VV	101382	2062952	73.37%	2.084%
102	8.438	8.421	8.463	VV	23254	513282	18.26%	0.518%
103	8.490	8.463	8.505	VV	65193	1018582	36.23%	1.029%
104	8.518	8.505	8.540	VV	51120	750015	26.68%	0.758%
105	8.554	8.540	8.588	VV	25476	662139	23.55%	0.669%
106	8.619	8.588	8.634	VV	32101	692742	24.64%	0.700%
107	8.664	8.634	8.702	VV	34929	1081700	38.47%	1.093%
108	8.729	8.702	8.749	VV	32561	699752	24.89%	0.707%
109	8.766	8.749	8.780	VV	26446	416606	14.82%	0.421%
110	8.787	8.780	8.805	VV	21049	283264	10.07%	0.286%
111	8.819	8.805	8.835	VV	20395	322816	11.48%	0.326%
112	8.863	8.835	8.887	VV	21092	558285	19.86%	0.564%
113	8.901	8.887	8.913	VV	16989	242784	8.64%	0.245%
114	8.932	8.913	8.960	VV	28045	626243	22.27%	0.633%
115	8.992	8.960	9.009	VV	30829	750402	26.69%	0.758%
116	9.026	9.009	9.049	VV	34239	625589	22.25%	0.632%
117	9.067	9.049	9.083	VV	30946	495005	17.61%	0.500%
118	9.112	9.083	9.138	VV	91686	1432577	50.95%	1.447%
119	9.165	9.138	9.183	VV	31999	579203	20.60%	0.585%
120	9.191	9.183	9.201	VV	16236	168759	6.00%	0.170%
121	9.216	9.201	9.237	VV	22432	403176	14.34%	0.407%
122	9.259	9.237	9.273	VV	20117	384677	13.68%	0.389%
123	9.284	9.273	9.309	VV	17866	332359	11.82%	0.336%
124	9.342	9.309	9.358	VV	22920	510308	18.15%	0.515%
125	9.387	9.358	9.405	VV	25847	558167	19.85%	0.564%
126	9.428	9.405	9.464	VV	26242	603948	21.48%	0.610%
127	9.485	9.464	9.507	VV	18102	366276	13.03%	0.370%
128	9.545	9.507	9.562	VV	20957	492624	17.52%	0.498%
129	9.577	9.562	9.593	VV	16898	245250	8.72%	0.248%
130	9.601	9.593	9.615	VV	10918	138191	4.92%	0.140%
131	9.633	9.615	9.649	VV	12154	223143	7.94%	0.225%
132	9.681	9.649	9.714	VV	20076	533721	18.98%	0.539%
133	9.728	9.714	9.744	VV	11316	183305	6.52%	0.185%
134	9.776	9.744	9.807	VV	29223	699644	24.88%	0.707%
135	9.820	9.807	9.829	VV	14348	173830	6.18%	0.176%
136	9.862	9.829	9.884	VV	22648	558505	19.86%	0.564%
137	9.907	9.884	9.926	VV	18653	346688	12.33%	0.350%
138	9.943	9.926	9.949	VV	15691	188914	6.72%	0.191%
139	9.960	9.949	9.988	VV	17240	306375	10.90%	0.309%
140	10.015	9.988	10.023	VV	9340	177743	6.32%	0.180%
141	10.045	10.023	10.070	VV	80581	934458	33.24%	0.944%

					rteres			
142	10.089	10.070	10.112	VV	11163	240471	8.55%	0.243%
143	10.138	10.112	10.166	VV	13786	344464	12.25%	0.348%
144	10.183	10.166	10.206	VV	12217	240581	8.56%	0.243%
145	10.214	10.206	10.230	VV	8131	109157	3.88%	0.110%
146	10.250	10.230	10.272	VV	8601	197103	7.01%	0.199%
147	10.286	10.272	10.324	VV	8968	223340	7.94%	0.226%
148	10.353	10.324	10.381	VV	7857	212276	7.55%	0.214%
149	10.395	10.381	10.407	VV	5906	90261	3.21%	0.091%
150	10.414	10.407	10.438	VV	5574	92637	3.29%	0.094%
151	10.458	10.438	10.478	VV	6035	128358	4.57%	0.130%
152	10.482	10.478	10.491	VV	4765	35839	1.27%	0.036%
153	10.520	10.491	10.544	VV	24253	395694	14.07%	0.400%
154	10.571	10.544	10.599	VV	24394	440164	15.66%	0.445%
155	10.621	10.599	10.636	VV	9618	167766	5.97%	0.169%
156	10.655	10.636	10.677	VV	9165	191093	6.80%	0.193%
157	10.691	10.677	10.702	VV	7016	96095	3.42%	0.097%
158	10.716	10.702	10.742	VV	7716	141888	5.05%	0.143%
159	10.766	10.742	10.802	VV	5788	169797	6.04%	0.171%
160	10.830	10.802	10.838	VV	5125	99303	3.53%	0.100%
161	10.855	10.838	10.883	VV	5619	132210	4.70%	0.134%
162	10.903	10.883	10.912	VV	5476	85236	3.03%	0.086%
163	10.936	10.912	10.958	VV	5950	143492	5.10%	0.145%
164	10.995	10.958	11.028	VV	20263	390105	13.87%	0.394%
165	11.035	11.028	11.039	VV	4347	29907	1.06%	0.030%
166	11.043	11.039	11.084	VV	4347	93955	3.34%	0.095%
167	11.139	11.084	11.149	VV	3346	120152	4.27%	0.121%
168	11.171	11.149	11.185	VV	5804	96082	3.42%	0.097%
169	11.194	11.185	11.222	VV	4579	85177	3.03%	0.086%
170	11.247	11.222	11.285	VV	5497	153856	5.47%	0.155%
171	11.317	11.285	11.362	VV	5100	174605	6.21%	0.176%
172	11.379	11.362	11.415	VV	3728	100275	3.57%	0.101%
173	11.430	11.415	11.448	VV	3392	58878	2.09%	0.059%
174	11.452	11.448	11.456	VV	2905	13431	0.48%	0.014%
175	11.482	11.456	11.504	VV	3704	89720	3.19%	0.091%
176	11.532	11.504	11.550	VV	3257	80669	2.87%	0.081%
177	11.567	11.550	11.588	VV	3598	70949	2.52%	0.072%
178	11.597	11.588	11.609	VV	2924	36347	1.29%	0.037%
179	11.625	11.609	11.637	VV	3458	51932	1.85%	0.052%
180	11.651	11.637	11.678	VV	3273	73329	2.61%	0.074%
181	11.717	11.678	11.753	VV	8322	215489	7.66%	0.218%
182	11.784	11.753	11.806	VV	2876	80017	2.85%	0.081%
183	11.825	11.806	11.850	VV	3356	68058	2.42%	0.069%
184	11.883	11.850	11.903	VV	3742	88397	3.14%	0.089%
185	11.921	11.903	11.926	VV	3060	39861	1.42%	0.040%
186	11.930	11.926	11.957	VV	3048	49734	1.77%	0.050%
187	11.977	11.957	11.991	VV	4161	67512	2.40%	0.068%
188	12.008	11.991	12.032	VV	4416	84373	3.00%	0.085%
189	12.037	12.032	12.053	VV	2860	33553	1.19%	0.034%
190	12.069	12.053	12.096	VV	2771	64390	2.29%	0.065%
191	12.123	12.096	12.141	VV	3423	75525	2.69%	0.076%
192	12.156	12.141	12.208	VV	3037	93701	3.33%	0.095%
193	12.232	12.208	12.248	VV	2036	46419	1.65%	0.047%
194	12.279	12.248	12.300	VV	4127	94932	3.38%	0.096%

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195	12.313	12.300	12.331	VV	2913	46704	1.66%	0.047%
196	12.347	12.331	12.362	VV	2459	41867	1.49%	0.042%
197	12.388	12.362	12.440	VV	3795	120409	4.28%	0.122%
198	12.453	12.440	12.468	VV	2114	34487	1.23%	0.035%
199	12.478	12.468	12.487	VV	1905	20736	0.74%	0.021%
200	12.510	12.487	12.516	VV	2744	39706	1.41%	0.040%
201	12.548	12.516	12.612	VV	94239	1262587	44.91%	1.275%
202	12.627	12.612	12.642	VV	3876	60285	2.14%	0.061%
203	12.657	12.642	12.670	VV	3424	53388	1.90%	0.054%
204	12.674	12.670	12.694	VV	2999	39951	1.42%	0.040%
205	12.717	12.694	12.749	VV	2999	81060	2.88%	0.082%
206	12.768	12.749	12.811	VV	3477	92960	3.31%	0.094%
207	12.820	12.811	12.830	VV	1882	19861	0.71%	0.020%
208	12.876	12.830	12.898	VV	3983	108454	3.86%	0.110%
209	12.918	12.898	12.926	VV	2466	37430	1.33%	0.038%
210	12.939	12.926	12.973	VV	2804	62937	2.24%	0.064%
211	13.016	12.973	13.061	VV	5944	160821	5.72%	0.162%
212	13.083	13.061	13.104	VV	1716	40353	1.44%	0.041%
213	13.119	13.104	13.132	VV	1529	24592	0.87%	0.025%
214	13.151	13.132	13.156	VV	1668	21606	0.77%	0.022%
215	13.176	13.156	13.234	VV	2561	89811	3.19%	0.091%
216	13.239	13.234	13.244	VV	1484	8718	0.31%	0.009%
217	13.252	13.244	13.275	VV	1453	24524	0.87%	0.025%
218	13.292	13.275	13.313	VV	2235	39939	1.42%	0.040%
219	13.339	13.313	13.374	VV	2445	66859	2.38%	0.068%
220	13.384	13.374	13.411	VV	1579	32201	1.15%	0.033%
221	13.436	13.411	13.457	VV	1936	45712	1.63%	0.046%
222	13.463	13.457	13.486	VV	1503	24669	0.88%	0.025%
223	13.499	13.486	13.529	VV	1430	31336	1.11%	0.032%
224	13.566	13.529	13.595	VV	3534	85758	3.05%	0.087%
225	13.617	13.595	13.675	VV	4720	132232	4.70%	0.134%
226	13.692	13.675	13.706	VV	1772	30331	1.08%	0.031%
227	13.723	13.706	13.746	VV	1847	39801	1.42%	0.040%
228	13.778	13.746	13.816	VV	16451	243590	8.66%	0.246%
229	13.824	13.816	13.866	VV	1860	48897	1.74%	0.049%
230	13.880	13.866	13.910	VV	1606	37242	1.32%	0.038%
231	13.915	13.910	13.921	VV	1154	7524	0.27%	0.008%
232	13.936	13.921	13.943	VV	1240	15577	0.55%	0.016%
233	13.954	13.943	13.965	VV	1269	16322	0.58%	0.016%
234	13.987	13.965	14.041	VV	1574	58480	2.08%	0.059%
235	14.088	14.041	14.120	VV	2018	66223	2.36%	0.067%
236	14.140	14.120	14.179	VV	1505	43530	1.55%	0.044%
237	14.194	14.179	14.220	VV	1166	24358	0.87%	0.025%
238	14.261	14.220	14.281	VV	1285	38600	1.37%	0.039%
239	14.290	14.281	14.316	VV	859	16156	0.57%	0.016%
240	14.374	14.316	14.409	VV	1114	50313	1.79%	0.051%
241	14.415	14.409	14.434	VV	757	10912	0.39%	0.011%
242	14.441	14.434	14.458	VV	786	9718	0.35%	0.010%
243	14.500	14.458	14.511	VV	1055	25356	0.90%	0.026%
244	14.530	14.511	14.594	VV	2235	61041	2.17%	0.062%
245	14.605	14.594	14.609	VV	846	7232	0.26%	0.007%
246	14.615	14.609	14.646	VV	883	16604	0.59%	0.017%

					rteres			
247	14.655	14.646	14.667	VV	770	8638	0.31%	0.009%
248	14.705	14.667	14.731	VV	1680	37800	1.34%	0.038%
249	14.759	14.731	14.791	VV	1877	42468	1.51%	0.043%
250	14.801	14.791	14.820	VV	1176	16595	0.59%	0.017%
251	14.824	14.820	14.840	VV	772	8633	0.31%	0.009%
252	14.845	14.840	14.852	VV	595	4251	0.15%	0.004%
253	14.860	14.852	14.882	VV	637	9486	0.34%	0.010%
254	14.922	14.882	14.945	VV	1073	24492	0.87%	0.025%
255	14.964	14.945	14.978	VV	587	10198	0.36%	0.010%
256	14.983	14.978	15.003	VV	504	6530	0.23%	0.007%
257	15.042	15.003	15.079	VV	99499	1344836	47.83%	1.358%
258	15.089	15.079	15.115	VV	950	14748	0.52%	0.015%
259	15.137	15.115	15.165	VV	480	12547	0.45%	0.013%
260	15.168	15.165	15.183	VV	396	3936	0.14%	0.004%
261	15.185	15.183	15.188	VV	362	1009	0.04%	0.001%
262	15.214	15.188	15.228	VV	1014	18199	0.65%	0.018%
263	15.245	15.228	15.267	VV	1819	26244	0.93%	0.027%
264	15.289	15.267	15.315	VV	1443	21541	0.77%	0.022%
265	15.336	15.315	15.359	VV	299	6031	0.21%	0.006%
266	15.372	15.359	15.378	VV	188	1772	0.06%	0.002%
267	15.381	15.378	15.420	VV	186	2532	0.09%	0.003%
268	15.442	15.420	15.467	VV	235	3716	0.13%	0.004%
269	15.481	15.467	15.501	VV	177	2360	0.08%	0.002%
270	15.506	15.501	15.516	VV	164	993	0.04%	0.001%
271	15.531	15.516	15.542	VV	132	1364	0.05%	0.001%
272	15.549	15.542	15.563	VV	87	363	0.01%	0.000%
273	15.580	15.563	15.591	PV	170	1514	0.05%	0.002%
274	15.621	15.591	15.738	VV	42445	622272	22.13%	0.628%
275	15.765	15.738	15.801	VV	2549	44143	1.57%	0.045%
276	15.839	15.801	15.873	VV	5010	73677	2.62%	0.074%
277	15.890	15.873	15.924	VV	418	7540	0.27%	0.008%
278	15.944	15.924	15.953	VV	123	1663	0.06%	0.002%
279	15.958	15.953	15.961	VV	125	501	0.02%	0.001%
280	15.977	15.961	16.005	VV	384	6883	0.24%	0.007%
281	16.010	16.005	16.032	VV	231	3277	0.12%	0.003%
282	16.048	16.032	16.053	VV	293	3011	0.11%	0.003%
283	16.058	16.053	16.078	VV	307	3963	0.14%	0.004%
284	16.083	16.078	16.114	VV	282	3349	0.12%	0.003%
285	16.144	16.114	16.171	VV	980	17894	0.64%	0.018%
286	16.178	16.171	16.203	VV	298	4221	0.15%	0.004%
287	16.226	16.203	16.241	VV	219	3882	0.14%	0.004%
288	16.267	16.241	16.300	VV	2536	34561	1.23%	0.035%
289	16.329	16.300	16.364	VV	328	6542	0.23%	0.007%
290	16.372	16.364	16.380	PV	90	586	0.02%	0.001%
291	16.381	16.380	16.388	VV	76	236	0.01%	0.000%
292	16.410	16.388	16.426	PV	131	1622	0.06%	0.002%
293	16.454	16.426	16.467	VV	279	4604	0.16%	0.005%
294	16.474	16.467	16.488	VV	195	1847	0.07%	0.002%
295	16.504	16.488	16.514	VV	126	1378	0.05%	0.001%
296	16.516	16.514	16.530	VV	74	489	0.02%	0.000%
297	16.568	16.530	16.603	VV	572	12199	0.43%	0.012%
298	16.636	16.603	16.682	VV	3137	58580	2.08%	0.059%
299	16.711	16.682	16.728	VV	1013	21023	0.75%	0.021%

						rteres		
300	16.750	16.728	16.778	VV	2966	42782	1.52%	0.043%
301	16.827	16.778	16.855	VV	1405	23271	0.83%	0.024%
302	16.877	16.855	16.893	VV	515	6735	0.24%	0.007%
303	16.898	16.893	16.928	VV	182	2552	0.09%	0.003%
304	16.946	16.928	16.956	PV	156	1615	0.06%	0.002%
305	16.961	16.956	16.967	VV	101	483	0.02%	0.000%
306	17.001	16.967	17.006	VV	599	7757	0.28%	0.008%
307	17.011	17.006	17.038	VV	555	9171	0.33%	0.009%
308	17.044	17.038	17.082	VV	485	8845	0.31%	0.009%
309	17.116	17.082	17.138	VV	514	11546	0.41%	0.012%
310	17.186	17.138	17.191	VV	571	12574	0.45%	0.013%
311	17.216	17.191	17.240	VV	3042	45629	1.62%	0.046%
312	17.267	17.240	17.325	VV	3620	63138	2.25%	0.064%
313	17.330	17.325	17.334	VV	246	1025	0.04%	0.001%
314	17.336	17.334	17.345	VV	216	1288	0.05%	0.001%
					Sum of corrected areas:		99009403	

FG111324.M Mon Nov 18 02:15:21 2024

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-17		SDG No.:	P4839	
Lab Sample ID:	P4839-09		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	89.7	Decanted:
Sample Wt/Vol:	30.07	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	Diesel Range Organics	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014853.D	10	11/14/24 13:15	11/18/24 15:47	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	184000		2060	18500	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.33		37 - 130	66%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014853.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 15:47
Operator : YP\AJ
Sample : P4839-09 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-17

Integration File: autoint1.e
Quant Time: Nov 19 01:31:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.039	148630	1.325 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

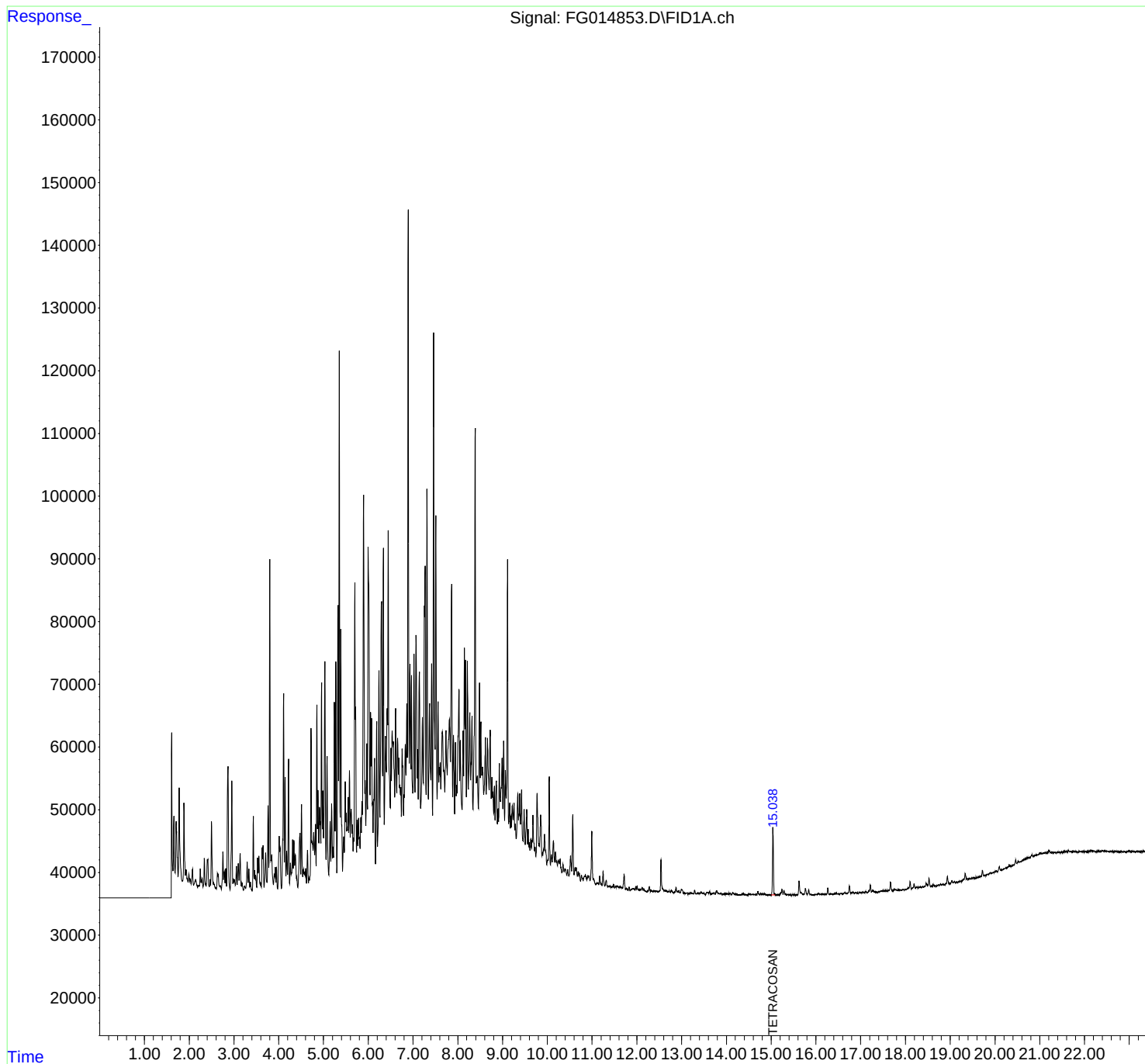
(m)=manual int.

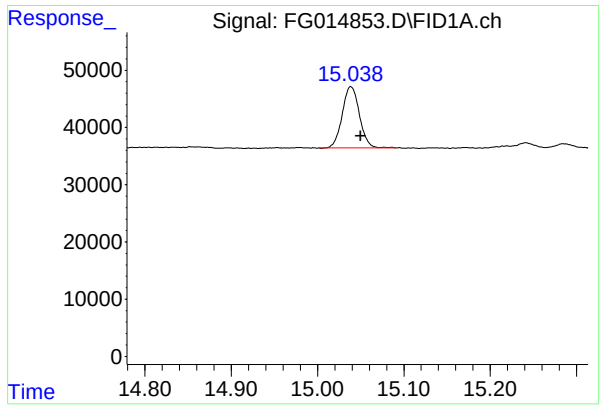
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014853.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 15:47
Operator : YP\AJ
Sample : P4839-09 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-17

Integration File: autoint1.e
Quant Time: Nov 19 01:31:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.039 min
Delta R.T.: -0.011 min
Response: 148630
Conc: 1.33 ug/ml

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-17

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
 Data File : FG014853.D
 Signal(s) : FID1A.ch
 Acq On : 18 Nov 2024 15:47
 Sample : P4839-09 10X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.475	4.412	4.493	BV	7780	133336	9.23%	0.214%
2	4.509	4.493	4.535	VV	12427	147416	10.20%	0.237%
3	4.553	4.535	4.569	VV	2156	33681	2.33%	0.054%
4	4.579	4.569	4.592	VV	1803	21254	1.47%	0.034%
5	4.604	4.592	4.622	VV	2414	24634	1.70%	0.040%
6	4.643	4.622	4.665	PV	5342	64869	4.49%	0.104%
7	4.678	4.665	4.687	VV	877	7812	0.54%	0.013%
8	4.723	4.687	4.741	VV	24742	281430	19.48%	0.452%
9	4.745	4.741	4.768	VV	6649	98895	6.84%	0.159%
10	4.781	4.768	4.804	VV	8201	140503	9.72%	0.226%
11	4.821	4.804	4.835	VV	9474	122829	8.50%	0.197%
12	4.853	4.835	4.867	VV	28551	305621	21.15%	0.491%
13	4.878	4.867	4.896	VV	14951	186389	12.90%	0.300%
14	4.913	4.896	4.926	VV	12231	180703	12.51%	0.290%
15	4.930	4.926	4.941	VV	9585	76297	5.28%	0.123%
16	4.956	4.941	4.974	VV	32090	363822	25.18%	0.585%
17	4.987	4.974	5.002	VV	14888	195179	13.51%	0.314%
18	5.032	5.002	5.057	VV	35472	577152	39.94%	0.927%
19	5.080	5.057	5.117	VV	20408	301992	20.90%	0.485%
20	5.149	5.117	5.165	VV	10037	153125	10.60%	0.246%
21	5.183	5.165	5.204	VV	12882	187558	12.98%	0.301%
22	5.214	5.204	5.225	VV	5985	64400	4.46%	0.103%
23	5.245	5.225	5.260	VV	29023	343766	23.79%	0.552%
24	5.277	5.260	5.300	VV	35498	413089	28.59%	0.664%
25	5.323	5.300	5.337	VV	44448	522774	36.18%	0.840%
26	5.353	5.337	5.372	VV	85142	907566	62.81%	1.458%
27	5.388	5.372	5.427	VV	40680	556387	38.50%	0.894%
28	5.454	5.427	5.467	VV	7656	137020	9.48%	0.220%
29	5.487	5.467	5.501	VV	16454	235174	16.28%	0.378%
30	5.509	5.501	5.521	VV	11436	124123	8.59%	0.199%
31	5.529	5.521	5.535	VV	9249	73295	5.07%	0.118%
32	5.552	5.535	5.565	VV	13964	202152	13.99%	0.325%
33	5.581	5.565	5.599	VV	18184	263312	18.22%	0.423%
34	5.619	5.599	5.638	VV	12091	246604	17.07%	0.396%
35	5.647	5.638	5.662	VV	9588	113823	7.88%	0.183%
36	5.676	5.662	5.681	VV	7536	77299	5.35%	0.124%

rteres								
37	5.700	5.681	5.713	VV	48200	555428	38.44%	0.893%
38	5.718	5.713	5.739	VV	28369	275935	19.10%	0.443%
39	5.753	5.739	5.768	VV	10388	139338	9.64%	0.224%
40	5.783	5.768	5.817	VV	10687	234143	16.20%	0.376%
41	5.835	5.817	5.847	VV	10803	156053	10.80%	0.251%
42	5.860	5.847	5.868	VV	13334	147117	10.18%	0.236%
43	5.896	5.868	5.925	VV	62073	1130434	78.23%	1.817%
44	5.932	5.925	5.946	VV	16700	178070	12.32%	0.286%
45	5.970	5.946	5.982	VV	22577	341981	23.67%	0.550%
46	5.999	5.982	6.040	VV	53786	1222697	84.62%	1.965%
47	6.054	6.040	6.064	VV	27558	304794	21.09%	0.490%
48	6.075	6.064	6.108	VV	26660	455616	31.53%	0.732%
49	6.140	6.108	6.163	VV	20285	402334	27.84%	0.647%
50	6.188	6.163	6.207	VV	26168	346044	23.95%	0.556%
51	6.240	6.207	6.259	VV	34209	545958	37.78%	0.877%
52	6.296	6.259	6.322	VV	45146	1075517	74.43%	1.728%
53	6.338	6.322	6.359	VV	53873	660053	45.68%	1.061%
54	6.383	6.359	6.404	VV	23858	500260	34.62%	0.804%
55	6.423	6.404	6.432	VV	28295	410906	28.44%	0.660%
56	6.447	6.432	6.491	VV	56677	986794	68.29%	1.586%
57	6.507	6.491	6.518	VV	22019	282786	19.57%	0.454%
58	6.534	6.518	6.553	VV	24771	470299	32.55%	0.756%
59	6.561	6.553	6.592	VV	23047	449693	31.12%	0.723%
60	6.611	6.592	6.637	VV	28337	546814	37.84%	0.879%
61	6.656	6.637	6.673	VV	23596	438236	30.33%	0.704%
62	6.684	6.673	6.699	VV	20471	296786	20.54%	0.477%
63	6.705	6.699	6.720	VV	16157	190494	13.18%	0.306%
64	6.729	6.720	6.742	VV	15784	183410	12.69%	0.295%
65	6.758	6.742	6.789	VV	21944	486673	33.68%	0.782%
66	6.800	6.789	6.807	VV	14614	145866	10.09%	0.234%
67	6.829	6.807	6.844	VV	22642	424923	29.41%	0.683%
68	6.863	6.844	6.874	VV	29159	431158	29.84%	0.693%
69	6.892	6.874	6.917	VV	107748	1402481	97.06%	2.254%
70	6.932	6.917	6.953	VV	35496	581412	40.24%	0.934%
71	6.966	6.953	6.996	VV	33621	571422	39.55%	0.918%
72	7.023	6.996	7.045	VV	37092	683464	47.30%	1.098%
73	7.069	7.045	7.095	VV	40054	832727	57.63%	1.338%
74	7.105	7.095	7.118	VV	21894	256806	17.77%	0.413%
75	7.142	7.118	7.171	VV	34280	739735	51.19%	1.189%
76	7.211	7.171	7.230	VV	27058	656699	45.45%	1.055%
77	7.255	7.230	7.260	VV	44884	563110	38.97%	0.905%
78	7.271	7.260	7.292	VV	51188	683331	47.29%	1.098%
79	7.313	7.292	7.343	VV	63423	989492	68.48%	1.590%
80	7.370	7.343	7.399	VV	29272	710015	49.14%	1.141%
81	7.418	7.399	7.438	VV	35644	539469	37.33%	0.867%
82	7.461	7.438	7.492	VV	88419	1348793	93.34%	2.167%
83	7.510	7.492	7.540	VV	59229	964172	66.73%	1.549%
84	7.560	7.540	7.577	VV	29566	490897	33.97%	0.789%
85	7.588	7.577	7.597	VV	19082	211850	14.66%	0.340%
86	7.608	7.597	7.622	VV	19903	275361	19.06%	0.442%
87	7.653	7.622	7.711	VV	24814	1076487	74.50%	1.730%
88	7.737	7.711	7.765	VV	25031	660762	45.73%	1.062%
89	7.812	7.765	7.836	VV	26845	988557	68.41%	1.589%

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90	7.863	7.836	7.889	VV	48435	967162	66.93%	1.554%
91	7.906	7.889	7.931	VV	24362	467110	32.33%	0.751%
92	7.950	7.931	7.967	VV	23169	382763	26.49%	0.615%
93	7.978	7.967	7.987	VV	16340	183973	12.73%	0.296%
94	8.027	7.987	8.044	VV	31663	816821	56.53%	1.313%
95	8.057	8.044	8.098	VV	23543	550958	38.13%	0.885%
96	8.119	8.098	8.132	VV	25009	395401	27.36%	0.635%
97	8.150	8.132	8.162	VV	38242	517982	35.85%	0.832%
98	8.173	8.162	8.193	VV	36373	490292	33.93%	0.788%
99	8.216	8.193	8.236	VV	36190	609512	42.18%	0.979%
100	8.269	8.236	8.287	VV	28012	655657	45.37%	1.054%
101	8.318	8.287	8.340	VV	27467	631097	43.68%	1.014%
102	8.389	8.340	8.420	VV	73419	1444979	100.00%	2.322%
103	8.438	8.420	8.462	VV	17965	409920	28.37%	0.659%
104	8.487	8.462	8.503	VV	32907	570818	39.50%	0.917%
105	8.517	8.503	8.539	VV	26584	466487	32.28%	0.750%
106	8.553	8.539	8.580	VV	19381	442958	30.65%	0.712%
107	8.617	8.580	8.636	VV	24136	611913	42.35%	0.983%
108	8.665	8.636	8.701	VV	23959	736590	50.98%	1.184%
109	8.725	8.701	8.748	VV	25303	559181	38.70%	0.899%
110	8.765	8.748	8.779	VV	17816	291541	20.18%	0.468%
111	8.786	8.779	8.803	VV	15501	205098	14.19%	0.330%
112	8.818	8.803	8.834	VV	16383	262973	18.20%	0.423%
113	8.861	8.834	8.885	VV	17231	426077	29.49%	0.685%
114	8.900	8.885	8.911	VV	12806	178721	12.37%	0.287%
115	8.930	8.911	8.952	VV	20033	378437	26.19%	0.608%
116	8.992	8.952	9.008	VV	20885	566993	39.24%	0.911%
117	9.026	9.008	9.048	VV	23631	422003	29.20%	0.678%
118	9.066	9.048	9.081	VV	18990	306792	21.23%	0.493%
119	9.112	9.081	9.137	VV	52512	861292	59.61%	1.384%
120	9.161	9.137	9.176	VV	13817	278163	19.25%	0.447%
121	9.189	9.176	9.201	VV	11698	160491	11.11%	0.258%
122	9.217	9.201	9.239	VV	13332	269899	18.68%	0.434%
123	9.258	9.239	9.275	VV	13819	261261	18.08%	0.420%
124	9.286	9.275	9.306	VV	10478	177918	12.31%	0.286%
125	9.340	9.306	9.357	VV	15290	352189	24.37%	0.566%
126	9.385	9.357	9.401	VV	15330	331355	22.93%	0.532%
127	9.425	9.401	9.463	VV	15909	411629	28.49%	0.661%
128	9.483	9.463	9.506	VV	12819	255742	17.70%	0.411%
129	9.542	9.506	9.561	VV	12799	320131	22.15%	0.514%
130	9.575	9.561	9.590	VV	9663	143443	9.93%	0.231%
131	9.600	9.590	9.613	VV	7516	94597	6.55%	0.152%
132	9.633	9.613	9.648	VV	8138	156518	10.83%	0.252%
133	9.660	9.648	9.665	VV	7897	75781	5.24%	0.122%
134	9.680	9.665	9.716	VV	11907	265134	18.35%	0.426%
135	9.728	9.716	9.746	VV	6806	112162	7.76%	0.180%
136	9.773	9.746	9.807	VV	15455	376767	26.07%	0.605%
137	9.817	9.807	9.826	VV	7495	79923	5.53%	0.128%
138	9.853	9.826	9.880	VV	12011	302263	20.92%	0.486%
139	9.889	9.880	9.898	VV	5885	59924	4.15%	0.096%
140	9.938	9.898	9.962	VV	8944	264041	18.27%	0.424%
141	9.966	9.962	9.987	VV	6257	82945	5.74%	0.133%

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142	10.009	9.987	10.021	VV	4856	93434	6.47%	0.150%
143	10.044	10.021	10.071	VV	18088	270395	18.71%	0.435%
144	10.092	10.071	10.110	VV	5695	117674	8.14%	0.189%
145	10.136	10.110	10.166	VV	7908	203193	14.06%	0.327%
146	10.182	10.166	10.203	VV	6134	119550	8.27%	0.192%
147	10.211	10.203	10.226	VV	4681	61554	4.26%	0.099%
148	10.245	10.226	10.271	VV	4882	121358	8.40%	0.195%
149	10.286	10.271	10.328	VV	5082	134630	9.32%	0.216%
150	10.352	10.328	10.381	VV	4233	111161	7.69%	0.179%
151	10.393	10.381	10.438	VV	3498	105501	7.30%	0.170%
152	10.457	10.438	10.488	VV	3398	85607	5.92%	0.138%
153	10.519	10.488	10.543	VV	5567	132106	9.14%	0.212%
154	10.569	10.543	10.597	VV	12242	215516	14.91%	0.346%
155	10.620	10.597	10.633	VV	3716	70259	4.86%	0.113%
156	10.647	10.633	10.673	VV	3753	75991	5.26%	0.122%
157	10.688	10.673	10.704	VV	3107	52408	3.63%	0.084%
158	10.718	10.704	10.745	VV	2906	55267	3.82%	0.089%
159	10.765	10.745	10.797	VV	2554	67499	4.67%	0.108%
160	10.827	10.797	10.838	VV	2442	52389	3.63%	0.084%
161	10.852	10.838	10.883	VV	2659	61559	4.26%	0.099%
162	10.902	10.883	10.912	VV	2526	39455	2.73%	0.063%
163	10.931	10.912	10.955	VV	2473	57496	3.98%	0.092%
164	10.994	10.955	11.084	VV	9600	236499	16.37%	0.380%
165	11.115	11.084	11.126	VV	1403	32309	2.24%	0.052%
166	11.135	11.126	11.148	VV	1426	17542	1.21%	0.028%
167	11.170	11.148	11.194	VV	2496	47530	3.29%	0.076%
168	11.197	11.194	11.223	VV	1346	20521	1.42%	0.033%
169	11.245	11.223	11.284	VV	3268	66495	4.60%	0.107%
170	11.316	11.284	11.373	VV	1883	62626	4.33%	0.101%
171	11.395	11.373	11.418	VV	1011	24120	1.67%	0.039%
172	11.425	11.418	11.435	VV	822	8157	0.56%	0.013%
173	11.450	11.435	11.463	VV	900	13761	0.95%	0.022%
174	11.482	11.463	11.503	VV	1230	23383	1.62%	0.038%
175	11.529	11.503	11.547	VV	980	22778	1.58%	0.037%
176	11.564	11.547	11.588	VV	1057	22590	1.56%	0.036%
177	11.593	11.588	11.610	VV	891	11051	0.76%	0.018%
178	11.622	11.610	11.635	VV	998	13017	0.90%	0.021%
179	11.649	11.635	11.675	VV	892	18943	1.31%	0.030%
180	11.716	11.675	11.751	VV	2951	64460	4.46%	0.104%
181	11.770	11.751	11.775	VV	663	8505	0.59%	0.014%
182	11.777	11.775	11.806	VV	613	8827	0.61%	0.014%
183	11.826	11.806	11.847	VV	883	14846	1.03%	0.024%
184	11.868	11.847	11.880	VV	539	8477	0.59%	0.014%
185	11.892	11.880	11.898	VV	598	6063	0.42%	0.010%
186	11.910	11.898	11.918	VV	652	7355	0.51%	0.012%
187	11.922	11.918	11.955	VV	616	12579	0.87%	0.020%
188	11.976	11.955	11.991	VV	1002	14798	1.02%	0.024%
189	12.005	11.991	12.033	VV	1067	18485	1.28%	0.030%
190	12.043	12.033	12.057	VV	533	6781	0.47%	0.011%
191	12.070	12.057	12.096	VV	615	12098	0.84%	0.019%
192	12.120	12.096	12.140	VV	861	17271	1.20%	0.028%
193	12.157	12.140	12.170	VV	670	9942	0.69%	0.016%
194	12.176	12.170	12.215	VV	420	8045	0.56%	0.013%

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195	12.231	12.215	12.248	VV	370	5869	0.41%	0.009%
196	12.278	12.248	12.303	VV	1036	19597	1.36%	0.031%
197	12.312	12.303	12.333	VV	565	7548	0.52%	0.012%
198	12.336	12.333	12.356	VV	382	4275	0.30%	0.007%
199	12.375	12.356	12.399	VV	431	8871	0.61%	0.014%
200	12.404	12.399	12.411	VV	363	2390	0.17%	0.004%
201	12.419	12.411	12.424	VV	360	2640	0.18%	0.004%
202	12.428	12.424	12.432	VV	392	1713	0.12%	0.003%
203	12.435	12.432	12.443	VV	372	2409	0.17%	0.004%
204	12.448	12.443	12.464	VV	379	3702	0.26%	0.006%
205	12.477	12.464	12.484	VV	353	3453	0.24%	0.006%
206	12.505	12.484	12.510	VV	451	5594	0.39%	0.009%
207	12.539	12.510	12.607	VV	5397	93132	6.45%	0.150%
208	12.626	12.607	12.644	VV	584	10129	0.70%	0.016%
209	12.659	12.644	12.696	VV	537	12005	0.83%	0.019%
210	12.720	12.696	12.747	VV	480	10105	0.70%	0.016%
211	12.767	12.747	12.781	VV	566	8673	0.60%	0.014%
212	12.784	12.781	12.829	VV	499	6952	0.48%	0.011%
213	12.875	12.829	12.898	VV	1041	19890	1.38%	0.032%
214	12.910	12.898	12.925	VV	457	6600	0.46%	0.011%
215	12.944	12.925	12.965	VV	580	8795	0.61%	0.014%
216	12.993	12.965	13.045	VV	821	21740	1.50%	0.035%
217	13.068	13.045	13.083	VV	224	3610	0.25%	0.006%
218	13.086	13.083	13.111	VV	199	2485	0.17%	0.004%
219	13.119	13.111	13.136	VV	212	2379	0.16%	0.004%
220	13.141	13.136	13.151	VV	119	781	0.05%	0.001%
221	13.156	13.151	13.170	VV	163	1368	0.09%	0.002%
222	13.206	13.170	13.226	VV	295	6245	0.43%	0.010%
223	13.238	13.226	13.265	VV	205	2977	0.21%	0.005%
224	13.292	13.265	13.321	VV	686	9603	0.66%	0.015%
225	13.328	13.321	13.334	VV	135	832	0.06%	0.001%
226	13.352	13.334	13.367	VV	264	3589	0.25%	0.006%
227	13.371	13.367	13.376	VV	166	789	0.05%	0.001%
228	13.385	13.376	13.416	VV	291	4308	0.30%	0.007%
229	13.436	13.416	13.464	VV	408	8325	0.58%	0.013%
230	13.471	13.464	13.476	VV	220	1398	0.10%	0.002%
231	13.480	13.476	13.488	VV	226	1544	0.11%	0.002%
232	13.497	13.488	13.519	VV	268	3100	0.21%	0.005%
233	13.526	13.519	13.533	VV	70	276	0.02%	0.000%
234	13.566	13.533	13.603	PV	413	11602	0.80%	0.019%
235	13.624	13.603	13.649	VV	537	9035	0.63%	0.015%
236	13.655	13.649	13.672	VV	202	1666	0.12%	0.003%
237	13.689	13.672	13.705	VV	262	3770	0.26%	0.006%
238	13.723	13.705	13.744	VV	352	5389	0.37%	0.009%
239	13.753	13.744	13.758	VV	206	1345	0.09%	0.002%
240	13.781	13.758	13.816	VV	708	14435	1.00%	0.023%
241	13.819	13.816	13.826	VV	284	1449	0.10%	0.002%
242	13.832	13.826	13.860	VV	240	3876	0.27%	0.006%
243	13.881	13.860	13.925	VV	305	6710	0.46%	0.011%
244	13.929	13.925	13.939	VV	128	924	0.06%	0.001%
245	13.951	13.939	13.973	VV	266	3233	0.22%	0.005%
246	13.995	13.973	14.014	VV	265	4707	0.33%	0.008%

					rteres			
247	14.022	14.014	14.048	VV	235	3989	0.28%	0.006%
248	14.054	14.048	14.070	VV	278	2601	0.18%	0.004%
249	14.083	14.070	14.104	VV	340	4575	0.32%	0.007%
250	14.112	14.104	14.118	VV	85	632	0.04%	0.001%
251	14.139	14.118	14.178	VV	412	9252	0.64%	0.015%
252	14.195	14.178	14.213	VV	216	2923	0.20%	0.005%
253	14.230	14.213	14.247	VV	163	2001	0.14%	0.003%
254	14.255	14.247	14.259	VV	111	558	0.04%	0.001%
255	14.264	14.259	14.272	VV	94	550	0.04%	0.001%
256	14.281	14.272	14.298	VV	88	842	0.06%	0.001%
257	14.302	14.298	14.307	VV	63	187	0.01%	0.000%
258	14.353	14.307	14.360	PV	244	2705	0.19%	0.004%
259	14.380	14.360	14.415	VV	270	5847	0.40%	0.009%
260	14.432	14.415	14.454	VV	164	2380	0.16%	0.004%
261	14.460	14.454	14.470	VV	85	511	0.04%	0.001%
262	14.475	14.470	14.479	VV	87	301	0.02%	0.000%
263	14.499	14.479	14.513	VV	235	3064	0.21%	0.005%
264	14.527	14.513	14.555	VV	259	4571	0.32%	0.007%
265	14.561	14.555	14.585	VV	148	2078	0.14%	0.003%
266	14.599	14.585	14.619	VV	189	2714	0.19%	0.004%
267	14.626	14.619	14.635	VV	137	1144	0.08%	0.002%
268	14.645	14.635	14.655	VV	156	1582	0.11%	0.003%
269	14.657	14.655	14.673	VV	180	1042	0.07%	0.002%
270	14.700	14.673	14.748	PV	656	11514	0.80%	0.019%
271	14.766	14.748	14.781	VV	330	4656	0.32%	0.007%
272	14.805	14.781	14.821	VV	196	4301	0.30%	0.007%
273	14.825	14.821	14.828	VV	223	816	0.06%	0.001%
274	14.832	14.828	14.848	VV	211	2164	0.15%	0.003%
275	14.852	14.848	14.858	VV	297	1476	0.10%	0.002%
276	14.863	14.858	14.887	VV	271	2937	0.20%	0.005%
277	14.898	14.887	14.903	VV	108	677	0.05%	0.001%
278	14.907	14.903	14.918	VV	83	342	0.02%	0.001%
279	14.953	14.918	14.959	VV	133	1487	0.10%	0.002%
280	14.961	14.959	14.968	VV	94	427	0.03%	0.001%
281	14.980	14.968	15.005	VV	166	2170	0.15%	0.003%
282	15.039	15.005	15.072	VV	10838	150683	10.43%	0.242%
283	15.077	15.072	15.100	VV	199	2426	0.17%	0.004%
284	15.106	15.100	15.118	VV	90	652	0.05%	0.001%
285	15.144	15.118	15.155	VV	106	1475	0.10%	0.002%
286	15.172	15.155	15.191	PV	167	2167	0.15%	0.003%
287	15.241	15.191	15.264	VV	986	19534	1.35%	0.031%
288	15.285	15.264	15.325	VV	808	13704	0.95%	0.022%
289	15.330	15.325	15.346	VV	167	1554	0.11%	0.002%
290	15.351	15.346	15.359	VV	98	662	0.05%	0.001%
291	15.382	15.359	15.388	VV	148	2037	0.14%	0.003%
292	15.393	15.388	15.403	VV	124	777	0.05%	0.001%
293	15.412	15.403	15.434	VV	94	1055	0.07%	0.002%
294	15.440	15.434	15.444	PV	104	287	0.02%	0.000%
295	15.447	15.444	15.463	VV	70	460	0.03%	0.001%
296	15.479	15.463	15.488	VV	152	1295	0.09%	0.002%
297	15.491	15.488	15.513	VV	131	749	0.05%	0.001%
298	15.526	15.513	15.553	VV	132	1406	0.10%	0.002%
299	15.567	15.553	15.593	PV	108	1584	0.11%	0.003%

					rteres			
300	15.622	15.593	15.659	VV	2339	39329	2.72%	0.063%
301	15.662	15.659	15.703	VV	485	9071	0.63%	0.015%
302	15.709	15.703	15.718	VV	195	1576	0.11%	0.003%
303	15.722	15.718	15.740	VV	202	1720	0.12%	0.003%
304	15.765	15.740	15.807	VV	1083	20354	1.41%	0.033%
305	15.838	15.807	15.867	VV	871	14295	0.99%	0.023%
306	15.881	15.867	15.923	VV	127	2103	0.15%	0.003%
307	15.943	15.923	15.961	PV	68	885	0.06%	0.001%
308	15.990	15.961	15.999	PV	113	1381	0.10%	0.002%
309	16.004	15.999	16.012	VV	141	668	0.05%	0.001%
310	16.026	16.012	16.031	VV	122	1066	0.07%	0.002%
311	16.042	16.031	16.053	VV	178	1767	0.12%	0.003%
312	16.059	16.053	16.069	VV	160	1432	0.10%	0.002%
313	16.078	16.069	16.085	VV	182	1373	0.09%	0.002%
314	16.089	16.085	16.107	VV	145	1050	0.07%	0.002%
315	16.117	16.107	16.123	VV	92	512	0.04%	0.001%
316	16.134	16.123	16.157	VV	152	2206	0.15%	0.004%
317	16.162	16.157	16.202	VV	106	1875	0.13%	0.003%
318	16.212	16.202	16.216	VV	106	571	0.04%	0.001%
319	16.220	16.216	16.223	VV	103	306	0.02%	0.000%
320	16.228	16.223	16.238	VV	128	791	0.05%	0.001%
321	16.264	16.238	16.305	VV	1103	14982	1.04%	0.024%
322	16.309	16.305	16.317	VV	101	559	0.04%	0.001%
323	16.325	16.317	16.371	VV	149	2519	0.17%	0.004%
324	16.408	16.371	16.417	VV	168	1824	0.13%	0.003%
325	16.423	16.417	16.428	VV	106	568	0.04%	0.001%
326	16.437	16.428	16.442	VV	185	1105	0.08%	0.002%
327	16.451	16.442	16.457	VV	215	1449	0.10%	0.002%
328	16.460	16.457	16.470	VV	122	760	0.05%	0.001%
329	16.482	16.470	16.495	VV	118	1112	0.08%	0.002%
330	16.507	16.495	16.515	VV	104	800	0.06%	0.001%
331	16.524	16.515	16.529	VV	71	469	0.03%	0.001%
332	16.537	16.529	16.548	PV	61	589	0.04%	0.001%
333	16.562	16.548	16.576	VV	155	1869	0.13%	0.003%
334	16.579	16.576	16.586	VV	90	525	0.04%	0.001%
335	16.599	16.586	16.612	VV	100	1051	0.07%	0.002%
336	16.642	16.612	16.678	VV	235	4651	0.32%	0.007%
337	16.682	16.678	16.686	VV	71	219	0.02%	0.000%
338	16.748	16.686	16.775	VV	1253	21487	1.49%	0.035%
339	16.783	16.775	16.787	VV	126	756	0.05%	0.001%
340	16.797	16.787	16.806	VV	179	1535	0.11%	0.002%
341	16.825	16.806	16.858	VV	252	4829	0.33%	0.008%
342	16.867	16.858	16.888	VV	135	1840	0.13%	0.003%
343	16.894	16.888	16.908	VV	140	949	0.07%	0.002%
344	16.929	16.908	16.946	VV	121	1549	0.11%	0.002%
345	16.962	16.946	16.967	VV	128	881	0.06%	0.001%
346	16.977	16.967	16.999	VV	100	1392	0.10%	0.002%
347	17.003	16.999	17.007	VV	74	276	0.02%	0.000%
348	17.020	17.007	17.025	VV	117	925	0.06%	0.001%
349	17.028	17.025	17.031	VV	129	405	0.03%	0.001%
350	17.035	17.031	17.038	VV	134	434	0.03%	0.001%
351	17.049	17.038	17.079	VV	186	2581	0.18%	0.004%

					rteres			
352	17.108	17.079	17.120	PV	248	3130	0.22%	0.005%
353	17.123	17.120	17.130	VV	171	815	0.06%	0.001%
354	17.134	17.130	17.145	VV	123	555	0.04%	0.001%
355	17.178	17.145	17.190	VV	300	4385	0.30%	0.007%
356	17.215	17.190	17.245	VV	1243	18729	1.30%	0.030%
357	17.269	17.245	17.298	VV	343	6564	0.45%	0.011%
358	17.304	17.298	17.318	VV	141	1038	0.07%	0.002%
359	17.324	17.318	17.336	VV	88	441	0.03%	0.001%
360	17.338	17.336	17.345	VV	62	98	0.01%	0.000%

Sum of corrected areas: 62230896

FG111324.M Tue Nov 19 02:37:38 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/13/24
Project:	North Point	Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-18	SDG No.:	P4839
Lab Sample ID:	P4839-10	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	79
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014820.D	1	11/14/24 13:15	11/16/24 12:28	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	4780		234	2110	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.2		37 - 130	76%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014820.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 12:28
Operator : YP\AJ
Sample : P4839-10
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-18

Integration File: autoint1.e
Quant Time: Nov 18 05:51:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.041	1709406	15.239 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

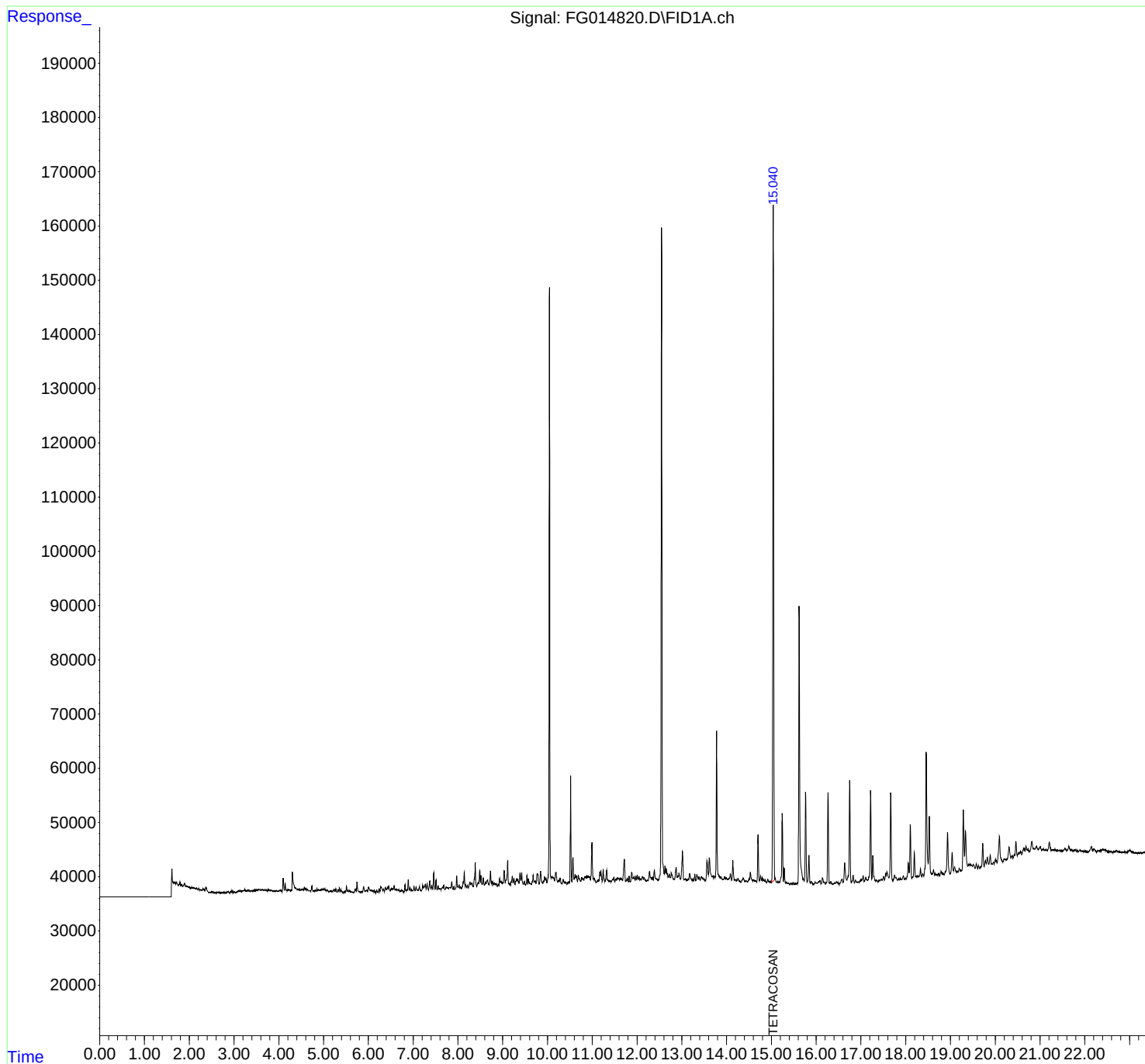
(m)=manual int.

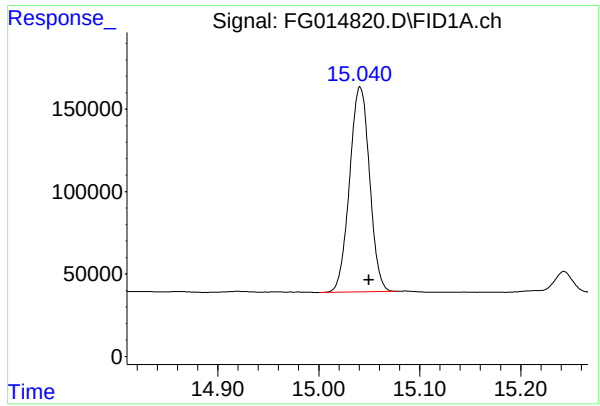
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014820.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 12:28
Operator : YP\AJ
Sample : P4839-10
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-18

Integration File: autoint1.e
Quant Time: Nov 18 05:51:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.041 min
Delta R.T.: -0.009 min
Response: 1709406
Conc: 15.24 ug/ml

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-18

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
 Data File : FG014820.D
 Signal(s) : FID1A.ch
 Acq On : 16 Nov 2024 12:28
 Sample : P4839-10
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.570	4.545	4.588	VV	1066	19442	1.11%	0.122%
2	4.598	4.588	4.602	VV	774	6025	0.35%	0.038%
3	4.610	4.602	4.627	VV	850	10600	0.61%	0.066%
4	4.639	4.627	4.673	VV	645	14187	0.81%	0.089%
5	4.691	4.673	4.712	VV	439	8581	0.49%	0.054%
6	4.740	4.712	4.780	VV	1297	24693	1.41%	0.155%
7	4.792	4.780	4.812	VV	448	7691	0.44%	0.048%
8	4.820	4.812	4.834	VV	449	4991	0.29%	0.031%
9	4.854	4.834	4.869	VV	785	10790	0.62%	0.068%
10	4.881	4.869	4.897	VV	588	8602	0.49%	0.054%
11	4.912	4.897	4.928	VV	560	9216	0.53%	0.058%
12	4.934	4.928	4.941	VV	569	3898	0.22%	0.024%
13	4.964	4.941	4.973	VV	684	11366	0.65%	0.071%
14	4.988	4.973	5.001	VV	698	10059	0.58%	0.063%
15	5.006	5.001	5.010	VV	593	3154	0.18%	0.020%
16	5.029	5.010	5.054	VV	784	15363	0.88%	0.096%
17	5.080	5.054	5.119	VV	603	15116	0.87%	0.095%
18	5.148	5.119	5.166	VV	355	7806	0.45%	0.049%
19	5.181	5.166	5.199	VV	370	5505	0.32%	0.035%
20	5.228	5.199	5.258	VV	558	14592	0.84%	0.092%
21	5.273	5.258	5.302	VV	634	9756	0.56%	0.061%
22	5.324	5.302	5.339	VV	621	7975	0.46%	0.050%
23	5.354	5.339	5.373	VV	932	10640	0.61%	0.067%
24	5.389	5.373	5.426	VV	619	8985	0.51%	0.056%
25	5.450	5.426	5.468	VV	168	2426	0.14%	0.015%
26	5.486	5.468	5.497	VV	293	3729	0.21%	0.023%
27	5.513	5.497	5.534	VV	1211	14195	0.81%	0.089%
28	5.551	5.534	5.569	VV	457	6315	0.36%	0.040%
29	5.587	5.569	5.607	VV	457	6557	0.38%	0.041%
30	5.612	5.607	5.639	VV	161	2821	0.16%	0.018%
31	5.647	5.639	5.663	VV	146	1297	0.07%	0.008%
32	5.677	5.663	5.688	VV	150	973	0.06%	0.006%
33	5.704	5.688	5.732	VV	687	12427	0.71%	0.078%
34	5.747	5.732	5.806	VV	2006	27536	1.58%	0.173%
35	5.810	5.806	5.821	VV	102	810	0.05%	0.005%
36	5.833	5.821	5.849	VV	225	2570	0.15%	0.016%

					rteres			
37	5.858	5.849	5.872	VV	213	1886	0.11%	0.012%
38	5.894	5.872	5.924	VV	1074	18583	1.06%	0.117%
39	5.954	5.924	5.983	VV	472	12427	0.71%	0.078%
40	6.003	5.983	6.007	VV	958	8732	0.50%	0.055%
41	6.010	6.007	6.032	VV	933	10788	0.62%	0.068%
42	6.038	6.032	6.047	VV	466	4150	0.24%	0.026%
43	6.051	6.047	6.066	VV	504	4527	0.26%	0.028%
44	6.072	6.066	6.077	VV	380	2329	0.13%	0.015%
45	6.091	6.077	6.111	VV	432	6714	0.38%	0.042%
46	6.120	6.111	6.127	VV	275	2240	0.13%	0.014%
47	6.140	6.127	6.167	VV	360	4153	0.24%	0.026%
48	6.188	6.167	6.208	PV	503	5526	0.32%	0.035%
49	6.219	6.208	6.224	VV	158	884	0.05%	0.006%
50	6.241	6.224	6.258	VV	714	8836	0.51%	0.055%
51	6.279	6.258	6.323	VV	1091	27717	1.59%	0.174%
52	6.340	6.323	6.361	VV	652	9921	0.57%	0.062%
53	6.381	6.361	6.407	VV	974	17373	1.00%	0.109%
54	6.426	6.407	6.437	VV	887	13491	0.77%	0.085%
55	6.456	6.437	6.492	VV	1216	24230	1.39%	0.152%
56	6.508	6.492	6.521	VV	709	8883	0.51%	0.056%
57	6.534	6.521	6.555	VV	729	12218	0.70%	0.077%
58	6.577	6.555	6.596	VV	1220	18999	1.09%	0.119%
59	6.613	6.596	6.625	VV	573	8541	0.49%	0.054%
60	6.629	6.625	6.640	VV	514	3903	0.22%	0.024%
61	6.659	6.640	6.677	VV	518	9247	0.53%	0.058%
62	6.682	6.677	6.701	VV	378	4207	0.24%	0.026%
63	6.711	6.701	6.723	VV	238	2889	0.17%	0.018%
64	6.737	6.723	6.749	VV	347	4585	0.26%	0.029%
65	6.756	6.749	6.768	VV	344	3143	0.18%	0.020%
66	6.772	6.768	6.794	VV	223	1789	0.10%	0.011%
67	6.819	6.794	6.845	VV	1360	17547	1.01%	0.110%
68	6.864	6.845	6.873	VV	493	6308	0.36%	0.040%
69	6.892	6.873	6.915	VV	2323	28326	1.62%	0.178%
70	6.932	6.915	6.953	VV	826	11328	0.65%	0.071%
71	6.966	6.953	6.982	VV	516	5455	0.31%	0.034%
72	6.987	6.982	6.992	VV	223	1307	0.07%	0.008%
73	7.022	6.992	7.045	VV	1026	15071	0.86%	0.095%
74	7.068	7.045	7.096	VV	960	15954	0.91%	0.100%
75	7.106	7.096	7.120	VV	394	4679	0.27%	0.029%
76	7.143	7.120	7.173	VV	961	16648	0.95%	0.104%
77	7.177	7.173	7.182	VV	225	1071	0.06%	0.007%
78	7.217	7.182	7.232	VV	1193	18690	1.07%	0.117%
79	7.272	7.232	7.292	VV	1378	32927	1.89%	0.206%
80	7.313	7.292	7.341	VV	1457	24844	1.42%	0.156%
81	7.371	7.341	7.401	VV	2004	36187	2.07%	0.227%
82	7.417	7.401	7.440	VV	1162	17925	1.03%	0.112%
83	7.461	7.440	7.493	VV	3523	50464	2.89%	0.316%
84	7.511	7.493	7.538	VV	2153	29669	1.70%	0.186%
85	7.560	7.538	7.580	VV	1063	16683	0.96%	0.105%
86	7.588	7.580	7.596	VV	487	4164	0.24%	0.026%
87	7.607	7.596	7.625	VV	483	7150	0.41%	0.045%
88	7.661	7.625	7.672	VV	785	17546	1.01%	0.110%
89	7.685	7.672	7.712	VV	1190	18339	1.05%	0.115%

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90	7.746	7.712	7.764	VV	795	19132	1.10%	0.120%
91	7.774	7.764	7.793	VV	704	10844	0.62%	0.068%
92	7.814	7.793	7.820	VV	740	10498	0.60%	0.066%
93	7.823	7.820	7.841	VV	709	8220	0.47%	0.052%
94	7.863	7.841	7.893	VV	1704	30587	1.75%	0.192%
95	7.912	7.893	7.932	VV	888	13499	0.77%	0.085%
96	7.975	7.932	7.995	VV	2821	43285	2.48%	0.271%
97	8.001	7.995	8.009	VV	779	6462	0.37%	0.041%
98	8.028	8.009	8.047	VV	1180	20072	1.15%	0.126%
99	8.056	8.047	8.078	VV	789	12213	0.70%	0.077%
100	8.120	8.078	8.129	VV	1758	33128	1.90%	0.208%
101	8.144	8.129	8.163	VV	3511	45247	2.59%	0.284%
102	8.174	8.163	8.199	VV	1204	19432	1.11%	0.122%
103	8.215	8.199	8.235	VV	1096	17440	1.00%	0.109%
104	8.267	8.235	8.283	VV	1639	33180	1.90%	0.208%
105	8.300	8.283	8.312	VV	1502	23072	1.32%	0.145%
106	8.319	8.312	8.336	VV	1373	15599	0.89%	0.098%
107	8.388	8.336	8.422	VV	5242	104191	5.97%	0.653%
108	8.460	8.422	8.469	VV	1548	35845	2.05%	0.225%
109	8.489	8.469	8.503	VV	3746	52013	2.98%	0.326%
110	8.517	8.503	8.542	VV	2839	43270	2.48%	0.271%
111	8.568	8.542	8.595	VV	2327	49327	2.83%	0.309%
112	8.618	8.595	8.631	VV	1587	28424	1.63%	0.178%
113	8.663	8.631	8.691	VV	1973	57303	3.28%	0.359%
114	8.729	8.691	8.751	VV	3635	70946	4.06%	0.445%
115	8.763	8.751	8.777	VV	1711	23267	1.33%	0.146%
116	8.790	8.777	8.805	VV	1353	20197	1.16%	0.127%
117	8.818	8.805	8.836	VV	1369	22612	1.30%	0.142%
118	8.846	8.836	8.882	VV	1302	30276	1.73%	0.190%
119	8.901	8.882	8.914	VV	1134	17571	1.01%	0.110%
120	8.933	8.914	8.951	VV	2217	35565	2.04%	0.223%
121	8.967	8.951	8.981	VV	1717	28396	1.63%	0.178%
122	9.001	8.981	9.010	VV	1505	23743	1.36%	0.149%
123	9.034	9.010	9.058	VV	3679	68968	3.95%	0.433%
124	9.112	9.058	9.152	VV	5441	133070	7.62%	0.835%
125	9.164	9.152	9.178	VV	1262	18231	1.04%	0.114%
126	9.216	9.178	9.234	VV	2589	58464	3.35%	0.367%
127	9.254	9.234	9.274	VV	2074	38742	2.22%	0.243%
128	9.291	9.274	9.298	VV	1633	20097	1.15%	0.126%
129	9.314	9.298	9.327	VV	2120	33168	1.90%	0.208%
130	9.340	9.327	9.354	VV	1989	28858	1.65%	0.181%
131	9.364	9.354	9.369	VV	1416	11953	0.68%	0.075%
132	9.387	9.369	9.407	VV	3139	51425	2.95%	0.322%
133	9.426	9.407	9.465	VV	3209	65651	3.76%	0.412%
134	9.484	9.465	9.509	VV	1620	33133	1.90%	0.208%
135	9.544	9.509	9.560	VV	2682	48386	2.77%	0.303%
136	9.576	9.560	9.591	VV	2073	28969	1.66%	0.182%
137	9.596	9.591	9.614	VV	1393	17854	1.02%	0.112%
138	9.619	9.614	9.624	VV	1128	6338	0.36%	0.040%
139	9.631	9.624	9.648	VV	1143	15586	0.89%	0.098%
140	9.681	9.648	9.712	VV	2708	66177	3.79%	0.415%
141	9.724	9.712	9.742	VV	1675	27236	1.56%	0.171%

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142	9.771	9.742	9.815	VV	2933	89281	5.11%	0.560%
143	9.846	9.815	9.884	VV	3422	82749	4.74%	0.519%
144	9.887	9.884	9.896	VV	1357	9091	0.52%	0.057%
145	9.919	9.896	9.923	VV	1629	22737	1.30%	0.143%
146	9.939	9.923	9.957	VV	2358	40308	2.31%	0.253%
147	9.969	9.957	9.988	VV	2099	33001	1.89%	0.207%
148	10.044	9.988	10.079	VV	111072	1205179	69.05%	7.558%
149	10.090	10.079	10.102	VV	2350	30014	1.72%	0.188%
150	10.115	10.102	10.133	VV	2304	40421	2.32%	0.253%
151	10.137	10.133	10.158	VV	2187	29863	1.71%	0.187%
152	10.187	10.158	10.229	VV	3145	94533	5.42%	0.593%
153	10.248	10.229	10.268	VV	1667	35858	2.05%	0.225%
154	10.283	10.268	10.320	VV	2070	46492	2.66%	0.292%
155	10.350	10.320	10.382	VV	1809	51485	2.95%	0.323%
156	10.390	10.382	10.401	VV	1295	13682	0.78%	0.086%
157	10.413	10.401	10.436	VV	1315	24440	1.40%	0.153%
158	10.457	10.436	10.467	VV	1281	21491	1.23%	0.135%
159	10.479	10.467	10.493	VV	1348	18807	1.08%	0.118%
160	10.518	10.493	10.544	VV	20909	246929	14.15%	1.549%
161	10.570	10.544	10.593	VV	5788	100439	5.75%	0.630%
162	10.617	10.593	10.632	VV	2642	51639	2.96%	0.324%
163	10.647	10.632	10.673	VV	2457	49662	2.85%	0.311%
164	10.691	10.673	10.714	VV	2622	50146	2.87%	0.314%
165	10.720	10.714	10.745	VV	1891	30247	1.73%	0.190%
166	10.765	10.745	10.776	VV	2159	32871	1.88%	0.206%
167	10.786	10.776	10.812	VV	1912	39463	2.26%	0.247%
168	10.829	10.812	10.836	VV	2183	27981	1.60%	0.175%
169	10.848	10.836	10.861	VV	2278	31074	1.78%	0.195%
170	10.876	10.861	10.885	VV	2444	32129	1.84%	0.201%
171	10.899	10.885	10.912	VV	2345	36058	2.07%	0.226%
172	10.922	10.912	10.932	VV	2280	25491	1.46%	0.160%
173	10.941	10.932	10.961	VV	2296	34872	2.00%	0.219%
174	10.995	10.961	11.030	VV	8562	163157	9.35%	1.023%
175	11.047	11.030	11.087	VV	1950	54403	3.12%	0.341%
176	11.116	11.087	11.122	VV	1482	27151	1.56%	0.170%
177	11.130	11.122	11.147	VV	1522	22256	1.28%	0.140%
178	11.170	11.147	11.181	VV	3003	46702	2.68%	0.293%
179	11.193	11.181	11.223	VV	3262	60166	3.45%	0.377%
180	11.245	11.223	11.286	VV	3430	76431	4.38%	0.479%
181	11.321	11.286	11.344	VV	3386	73754	4.23%	0.463%
182	11.349	11.344	11.372	VV	1616	23705	1.36%	0.149%
183	11.378	11.372	11.384	VV	1357	9442	0.54%	0.059%
184	11.393	11.384	11.418	VV	1425	26892	1.54%	0.169%
185	11.459	11.418	11.464	VV	1691	41147	2.36%	0.258%
186	11.483	11.464	11.503	VV	2075	38953	2.23%	0.244%
187	11.530	11.503	11.544	VV	1762	38739	2.22%	0.243%
188	11.565	11.544	11.583	VV	1952	40878	2.34%	0.256%
189	11.597	11.583	11.610	VV	1809	27097	1.55%	0.170%
190	11.624	11.610	11.639	VV	1915	30016	1.72%	0.188%
191	11.648	11.639	11.676	VV	1827	36347	2.08%	0.228%
192	11.717	11.676	11.750	VV	5284	132884	7.61%	0.833%
193	11.780	11.750	11.802	VV	1711	46229	2.65%	0.290%
194	11.823	11.802	11.850	VV	2226	45456	2.60%	0.285%

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195	11.882	11.850	11.905	VV	2890	64849	3.72%	0.407%
196	11.918	11.905	11.924	VV	1960	20795	1.19%	0.130%
197	11.938	11.924	11.958	VV	2036	37297	2.14%	0.234%
198	11.976	11.958	11.991	VV	2225	35944	2.06%	0.225%
199	12.007	11.991	12.029	VV	2372	43272	2.48%	0.271%
200	12.046	12.029	12.060	VV	2046	33440	1.92%	0.210%
201	12.073	12.060	12.098	VV	1667	35673	2.04%	0.224%
202	12.121	12.098	12.140	VV	2084	46553	2.67%	0.292%
203	12.157	12.140	12.200	VV	1913	56664	3.25%	0.355%
204	12.205	12.200	12.210	VV	1262	7080	0.41%	0.044%
205	12.230	12.210	12.241	VV	1435	24819	1.42%	0.156%
206	12.279	12.241	12.300	VV	3068	73892	4.23%	0.463%
207	12.313	12.300	12.333	VV	1891	33714	1.93%	0.211%
208	12.346	12.333	12.363	VV	1933	30500	1.75%	0.191%
209	12.387	12.363	12.442	VV	3219	96970	5.56%	0.608%
210	12.449	12.442	12.473	VV	1535	26337	1.51%	0.165%
211	12.479	12.473	12.487	VV	1486	12142	0.70%	0.076%
212	12.549	12.487	12.607	VV	121488	1550157	88.81%	9.721%
213	12.624	12.607	12.642	VV	3953	67043	3.84%	0.420%
214	12.653	12.642	12.701	VV	3390	91301	5.23%	0.573%
215	12.722	12.701	12.748	VV	2454	57447	3.29%	0.360%
216	12.766	12.748	12.809	VV	2644	77492	4.44%	0.486%
217	12.817	12.809	12.838	VV	1586	25991	1.49%	0.163%
218	12.871	12.838	12.899	VV	3646	90238	5.17%	0.566%
219	12.913	12.899	12.921	VV	2074	25654	1.47%	0.161%
220	12.938	12.921	12.968	VV	2579	56831	3.26%	0.356%
221	13.015	12.968	13.048	VV	6629	156925	8.99%	0.984%
222	13.053	13.048	13.064	VV	1431	13158	0.75%	0.083%
223	13.086	13.064	13.109	VV	1534	37400	2.14%	0.235%
224	13.117	13.109	13.135	VV	1412	20682	1.18%	0.130%
225	13.146	13.135	13.153	VV	1480	14850	0.85%	0.093%
226	13.174	13.153	13.230	VV	2494	79931	4.58%	0.501%
227	13.238	13.230	13.247	VV	1344	12490	0.72%	0.078%
228	13.253	13.247	13.269	VV	1292	16326	0.94%	0.102%
229	13.291	13.269	13.313	VV	2299	43341	2.48%	0.272%
230	13.337	13.313	13.370	VV	2280	59254	3.39%	0.372%
231	13.382	13.370	13.410	VV	1904	37638	2.16%	0.236%
232	13.437	13.410	13.482	VV	1882	69089	3.96%	0.433%
233	13.499	13.482	13.515	VV	1485	27021	1.55%	0.169%
234	13.526	13.515	13.531	VV	1209	11272	0.65%	0.071%
235	13.563	13.531	13.593	VV	4767	106007	6.07%	0.665%
236	13.615	13.593	13.677	VV	5264	151536	8.68%	0.950%
237	13.688	13.677	13.704	VV	1980	29065	1.67%	0.182%
238	13.723	13.704	13.736	VV	1973	35046	2.01%	0.220%
239	13.776	13.736	13.860	VV	28691	441251	25.28%	2.767%
240	13.878	13.860	13.919	VV	1789	52480	3.01%	0.329%
241	13.955	13.919	13.975	VV	1774	49408	2.83%	0.310%
242	13.987	13.975	14.023	VV	1658	41738	2.39%	0.262%
243	14.030	14.023	14.038	VV	1374	11690	0.67%	0.073%
244	14.041	14.038	14.053	VV	1301	12271	0.70%	0.077%
245	14.085	14.053	14.112	VV	2272	58259	3.34%	0.365%
246	14.139	14.112	14.178	VV	4774	94221	5.40%	0.591%

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247	14.190	14.178	14.216	VV	1224	25462	1.46%	0.160%
248	14.233	14.216	14.241	VV	1231	15922	0.91%	0.100%
249	14.257	14.241	14.282	VV	1433	28618	1.64%	0.179%
250	14.288	14.282	14.320	VV	968	19477	1.12%	0.122%
251	14.376	14.320	14.414	VV	1417	59377	3.40%	0.372%
252	14.429	14.414	14.471	VV	896	28216	1.62%	0.177%
253	14.499	14.471	14.511	VV	1365	25642	1.47%	0.161%
254	14.530	14.511	14.569	VV	2530	57863	3.31%	0.363%
255	14.574	14.569	14.586	VV	1150	11056	0.63%	0.069%
256	14.593	14.586	14.600	VV	1075	8577	0.49%	0.054%
257	14.605	14.600	14.613	VV	1058	7861	0.45%	0.049%
258	14.617	14.613	14.640	VV	1028	14634	0.84%	0.092%
259	14.644	14.640	14.652	VV	910	6279	0.36%	0.039%
260	14.656	14.652	14.675	VV	905	10807	0.62%	0.068%
261	14.701	14.675	14.734	VV	9403	134843	7.73%	0.846%
262	14.758	14.734	14.786	VV	1770	40028	2.29%	0.251%
263	14.798	14.786	14.815	VV	1374	20810	1.19%	0.131%
264	14.826	14.815	14.846	VV	1048	17739	1.02%	0.111%
265	14.865	14.846	14.889	VV	1024	20667	1.18%	0.130%
266	14.920	14.889	14.943	VV	1182	26553	1.52%	0.167%
267	14.959	14.943	14.969	VV	754	11143	0.64%	0.070%
268	14.973	14.969	15.004	VV	744	13065	0.75%	0.082%
269	15.041	15.004	15.077	VV	125423	1745486	100.00%	10.946%
270	15.086	15.077	15.112	VV	1322	19828	1.14%	0.124%
271	15.130	15.112	15.136	VV	650	8483	0.49%	0.053%
272	15.144	15.136	15.157	VV	693	8105	0.46%	0.051%
273	15.174	15.157	15.185	VV	672	9380	0.54%	0.059%
274	15.243	15.185	15.268	VV	13272	197580	11.32%	1.239%
275	15.287	15.268	15.312	VV	3146	44452	2.55%	0.279%
276	15.333	15.312	15.367	VV	528	13837	0.79%	0.087%
277	15.377	15.367	15.409	VV	396	7821	0.45%	0.049%
278	15.414	15.409	15.419	VV	199	1091	0.06%	0.007%
279	15.435	15.419	15.439	VV	385	3398	0.19%	0.021%
280	15.443	15.439	15.457	VV	358	2846	0.16%	0.018%
281	15.483	15.457	15.514	VV	367	8482	0.49%	0.053%
282	15.530	15.514	15.556	VV	323	5431	0.31%	0.034%
283	15.561	15.556	15.565	VV	235	1098	0.06%	0.007%
284	15.581	15.565	15.591	VV	402	5214	0.30%	0.033%
285	15.619	15.591	15.733	VV	51410	784174	44.93%	4.918%
286	15.764	15.733	15.802	VV	17098	236580	13.55%	1.484%
287	15.838	15.802	15.870	VV	5457	85845	4.92%	0.538%
288	15.890	15.870	15.932	VV	663	13915	0.80%	0.087%
289	15.938	15.932	15.943	VV	172	1051	0.06%	0.007%
290	15.975	15.943	16.000	VV	472	9380	0.54%	0.059%
291	16.015	16.000	16.029	VV	330	5409	0.31%	0.034%
292	16.058	16.029	16.068	VV	542	10350	0.59%	0.065%
293	16.085	16.068	16.108	VV	783	12317	0.71%	0.077%
294	16.140	16.108	16.169	VV	1269	25604	1.47%	0.161%
295	16.174	16.169	16.208	VV	504	7936	0.45%	0.050%
296	16.224	16.208	16.230	VV	366	3449	0.20%	0.022%
297	16.265	16.230	16.307	VV	16971	236064	13.52%	1.480%
298	16.326	16.307	16.379	VV	605	11022	0.63%	0.069%
299	16.407	16.379	16.411	PV	235	2278	0.13%	0.014%

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300	16.420	16.411	16.428	VV	247	1905	0.11%	0.012%
301	16.454	16.428	16.497	VV	495	12056	0.69%	0.076%
302	16.505	16.497	16.520	VV	178	1435	0.08%	0.009%
303	16.575	16.520	16.604	VV	882	23240	1.33%	0.146%
304	16.636	16.604	16.685	VV	3886	81322	4.66%	0.510%
305	16.714	16.685	16.720	VV	1559	23690	1.36%	0.149%
306	16.749	16.720	16.781	VV	19025	265694	15.22%	1.666%
307	16.826	16.781	16.856	VV	1505	27369	1.57%	0.172%
308	16.880	16.856	16.904	VV	616	10319	0.59%	0.065%
309	16.908	16.904	16.932	VV	224	2907	0.17%	0.018%
310	16.946	16.932	16.964	VV	236	3408	0.20%	0.021%
311	17.006	16.964	17.012	VV	567	10706	0.61%	0.067%
312	17.049	17.012	17.072	VV	1293	26960	1.54%	0.169%
313	17.077	17.072	17.083	VV	320	1799	0.10%	0.011%
314	17.108	17.083	17.150	VV	925	25336	1.45%	0.159%
315	17.180	17.150	17.184	VV	1100	14513	0.83%	0.091%
316	17.216	17.184	17.244	VV	16950	243943	13.98%	1.530%
317	17.265	17.244	17.287	VV	4989	66541	3.81%	0.417%
318	17.290	17.287	17.318	VV	1124	13173	0.75%	0.083%
319	17.322	17.318	17.325	VV	311	1100	0.06%	0.007%
320	17.338	17.325	17.343	VV	403	3623	0.21%	0.023%
321	17.348	17.343	17.377	VV	368	4256	0.24%	0.027%
322	17.412	17.377	17.427	PV	347	6001	0.34%	0.038%
323	17.455	17.427	17.480	VV	517	11656	0.67%	0.073%
324	17.504	17.480	17.527	VV	947	16878	0.97%	0.106%
					Sum of corrected areas:		15946091	

FG111324.M Mon Nov 18 06:40:27 2024

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-19		SDG No.:	P4839	
Lab Sample ID:	P4839-11		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	83.3	Decanted:
Sample Wt/Vol:	30.09	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
FG014844.D	5	11/14/24 13:15	11/18/24 11:24	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	65200		1110	9970	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	3.92		37 - 130	98%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014844.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 11:24
Operator : YP\AJ
Sample : P4839-11 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-19

Integration File: autoint1.e
Quant Time: Nov 19 01:30:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.040	439695	3.920 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

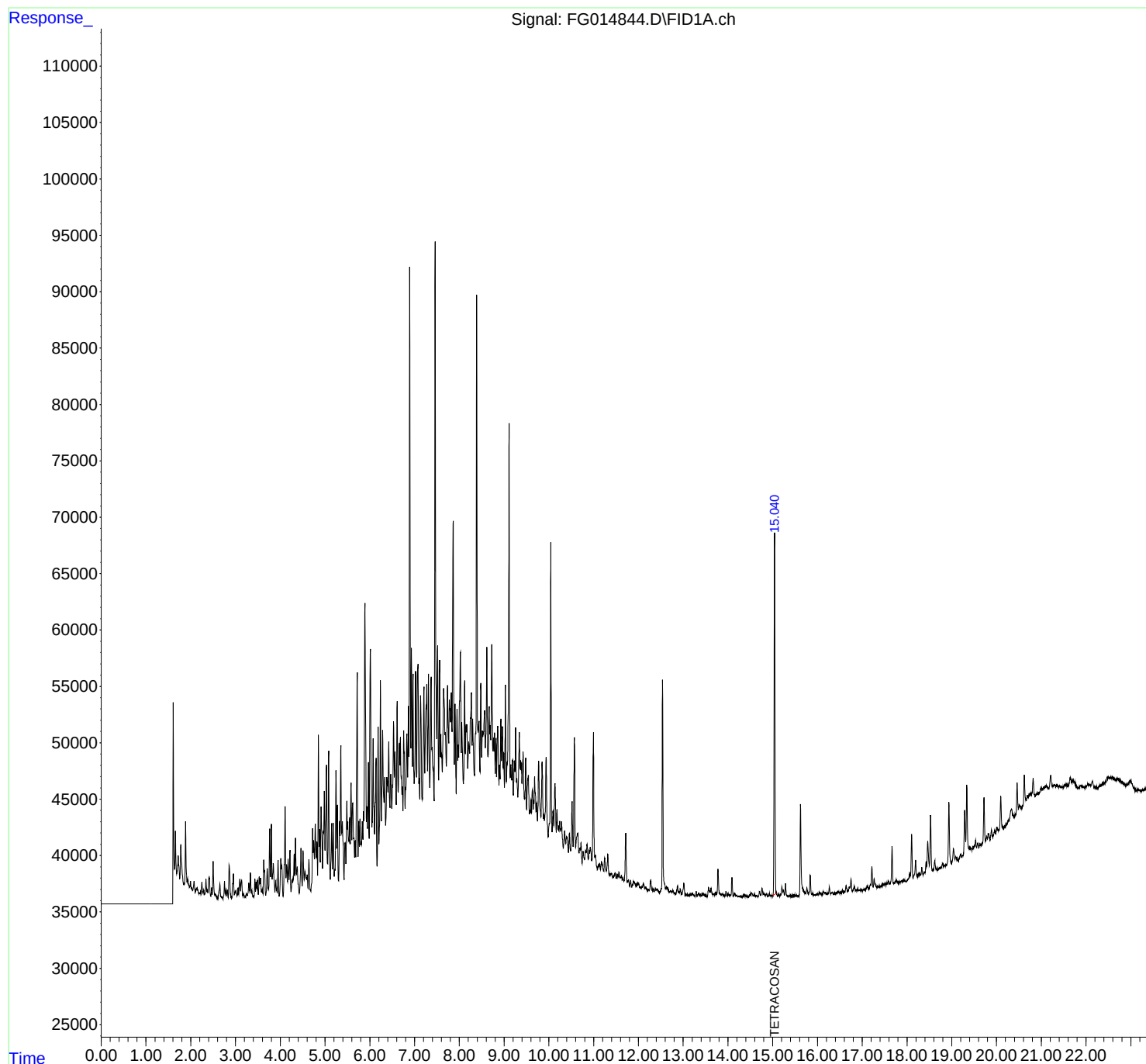
(m)=manual int.

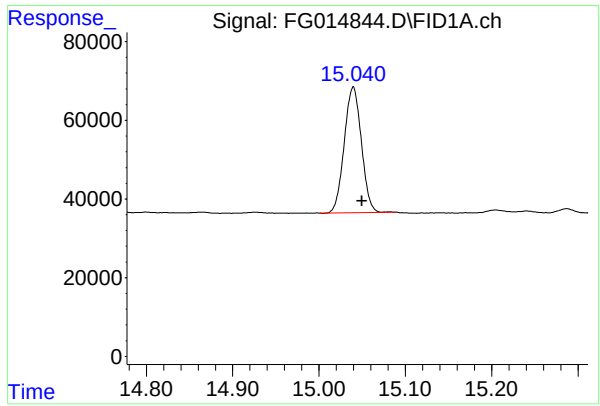
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014844.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 11:24
Operator : YP\AJ
Sample : P4839-11 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-19

Integration File: autoint1.e
Quant Time: Nov 19 01:30:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.040 min
Delta R.T.: -0.010 min
Response: 439695
Conc: 3.92 ug/ml

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-19

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014844.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 11:24
Sample : P4839-11 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.464	4.420	4.491	BH	3897	60258	5.63%	0.145%
2	4.510	4.491	4.536	HH	3685	56084	5.24%	0.135%
3	4.553	4.536	4.592	HH	1857	48303	4.51%	0.116%
4	4.603	4.592	4.620	HH	1552	18175	1.70%	0.044%
5	4.641	4.620	4.682	HH	2923	43445	4.06%	0.105%
6	4.723	4.682	4.735	HH	5654	70047	6.54%	0.169%
7	4.745	4.735	4.765	HH	4603	69519	6.49%	0.168%
8	4.782	4.765	4.805	HH	6049	103016	9.62%	0.248%
9	4.820	4.805	4.835	HH	4497	62961	5.88%	0.152%
10	4.853	4.835	4.869	HH	13948	153934	14.37%	0.371%
11	4.877	4.869	4.893	HH	5573	62695	5.85%	0.151%
12	4.913	4.893	4.945	HH	7595	155044	14.48%	0.374%
13	4.985	4.945	5.000	HH	8970	184665	17.24%	0.445%
14	5.032	5.000	5.059	HH	11276	219595	20.50%	0.530%
15	5.081	5.059	5.118	HH	12545	193533	18.07%	0.467%
16	5.149	5.118	5.167	HH	6111	99686	9.31%	0.240%
17	5.183	5.167	5.206	HH	6141	86650	8.09%	0.209%
18	5.246	5.206	5.263	HH	10797	164147	15.33%	0.396%
19	5.277	5.263	5.303	HH	7752	101184	9.45%	0.244%
20	5.327	5.303	5.336	HH	6321	80264	7.49%	0.194%
21	5.354	5.336	5.371	HH	13018	176932	16.52%	0.427%
22	5.389	5.371	5.425	HH	6289	142623	13.32%	0.344%
23	5.450	5.425	5.468	HH	4369	85568	7.99%	0.206%
24	5.488	5.468	5.501	HH	8100	115435	10.78%	0.278%
25	5.509	5.501	5.523	HH	6241	73553	6.87%	0.177%
26	5.528	5.523	5.537	HH	4687	37014	3.46%	0.089%
27	5.552	5.537	5.565	HH	6649	92481	8.64%	0.223%
28	5.582	5.565	5.598	HH	9688	143975	13.44%	0.347%
29	5.618	5.598	5.640	HH	7887	162078	15.13%	0.391%
30	5.645	5.640	5.662	HH	4795	54614	5.10%	0.132%
31	5.676	5.662	5.687	HH	4608	58989	5.51%	0.142%
32	5.719	5.687	5.739	HH	19487	314349	29.35%	0.758%
33	5.754	5.739	5.768	HH	6304	86231	8.05%	0.208%
34	5.783	5.768	5.797	HH	6510	91182	8.51%	0.220%
35	5.805	5.797	5.816	HH	4431	47348	4.42%	0.114%
36	5.834	5.816	5.846	HH	6285	97603	9.11%	0.235%

rteres								
37	5.859	5.846	5.868	HH	7159	79591	7.43%	0.192%
38	5.892	5.868	5.925	HH	25634	517636	48.33%	1.248%
39	5.934	5.925	5.946	HH	7618	85136	7.95%	0.205%
40	5.971	5.946	5.986	HH	11534	190426	17.78%	0.459%
41	6.014	5.986	6.048	HH	21576	479321	44.76%	1.156%
42	6.076	6.048	6.108	HH	13620	297465	27.77%	0.717%
43	6.140	6.108	6.163	HH	11900	239129	22.33%	0.577%
44	6.187	6.163	6.206	HH	14642	198467	18.53%	0.479%
45	6.239	6.206	6.259	HH	18802	311899	29.12%	0.752%
46	6.289	6.259	6.320	HH	14357	362092	33.81%	0.873%
47	6.337	6.320	6.355	HH	10199	177906	16.61%	0.429%
48	6.383	6.355	6.391	HH	10177	176148	16.45%	0.425%
49	6.397	6.391	6.407	HH	9825	91388	8.53%	0.220%
50	6.425	6.407	6.451	HH	13345	266144	24.85%	0.642%
51	6.469	6.451	6.492	HH	10455	222395	20.77%	0.536%
52	6.510	6.492	6.514	HH	9557	116284	10.86%	0.280%
53	6.533	6.514	6.550	HH	15106	269906	25.20%	0.651%
54	6.563	6.550	6.591	HH	12501	259597	24.24%	0.626%
55	6.612	6.591	6.635	HH	16908	318604	29.75%	0.768%
56	6.662	6.635	6.672	HH	13247	255829	23.89%	0.617%
57	6.685	6.672	6.702	HH	13763	215067	20.08%	0.519%
58	6.706	6.702	6.720	HH	10128	100798	9.41%	0.243%
59	6.729	6.720	6.742	HH	9334	116255	10.86%	0.280%
60	6.758	6.742	6.789	HH	14321	313596	29.28%	0.756%
61	6.802	6.789	6.807	HH	9319	93828	8.76%	0.226%
62	6.828	6.807	6.846	HH	14038	277383	25.90%	0.669%
63	6.865	6.846	6.875	HH	16501	231560	21.62%	0.558%
64	6.893	6.875	6.917	HH	55323	752720	70.28%	1.815%
65	6.931	6.917	6.952	HH	21617	351679	32.84%	0.848%
66	6.966	6.952	6.993	HH	19347	328165	30.64%	0.791%
67	7.025	6.993	7.045	HH	19614	422885	39.49%	1.020%
68	7.077	7.045	7.098	HH	20233	502772	46.94%	1.213%
69	7.104	7.098	7.116	HH	10103	98925	9.24%	0.239%
70	7.136	7.116	7.168	HH	17430	404878	37.80%	0.976%
71	7.210	7.168	7.229	HH	18214	455555	42.54%	1.099%
72	7.259	7.229	7.263	HH	16484	287522	26.85%	0.693%
73	7.274	7.263	7.292	HH	18450	266349	24.87%	0.642%
74	7.312	7.292	7.342	HH	19356	413725	38.63%	0.998%
75	7.370	7.342	7.437	HH	19096	715033	66.76%	1.724%
76	7.461	7.437	7.497	HH	57700	945389	88.27%	2.280%
77	7.516	7.497	7.540	HH	21841	425596	39.74%	1.026%
78	7.561	7.540	7.577	HH	20600	339597	31.71%	0.819%
79	7.588	7.577	7.601	HH	14020	181740	16.97%	0.438%
80	7.605	7.601	7.621	HH	12229	144033	13.45%	0.347%
81	7.651	7.621	7.679	HH	18055	525338	49.05%	1.267%
82	7.689	7.679	7.712	HH	14161	262969	24.55%	0.634%
83	7.737	7.712	7.764	HH	18345	461631	43.10%	1.113%
84	7.779	7.764	7.804	HH	17065	381243	35.60%	0.919%
85	7.823	7.804	7.836	HH	17715	310061	28.95%	0.748%
86	7.863	7.836	7.889	HH	32954	687459	64.19%	1.658%
87	7.905	7.889	7.930	HH	16692	324296	30.28%	0.782%
88	7.950	7.930	7.966	HH	16278	274563	25.64%	0.662%
89	7.978	7.966	7.988	HH	13041	166976	15.59%	0.403%

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90	8.025	7.988	8.044	HH	21275	561214	52.40%	1.353%
91	8.055	8.044	8.091	HH	15078	360247	33.64%	0.869%
92	8.120	8.091	8.136	HH	18760	362975	33.89%	0.875%
93	8.153	8.136	8.162	HH	14879	221385	20.67%	0.534%
94	8.171	8.162	8.189	HH	14862	217658	20.32%	0.525%
95	8.211	8.189	8.232	HH	13343	319599	29.84%	0.771%
96	8.269	8.232	8.285	HH	17723	484227	45.21%	1.168%
97	8.299	8.285	8.335	HH	15375	388435	36.27%	0.937%
98	8.389	8.335	8.419	HH	52964	1070984	100.00%	2.583%
99	8.440	8.419	8.461	HH	15156	348216	32.51%	0.840%
100	8.480	8.461	8.500	HH	18538	339576	31.71%	0.819%
101	8.515	8.500	8.524	HH	14275	198215	18.51%	0.478%
102	8.536	8.524	8.540	HH	14177	129814	12.12%	0.313%
103	8.564	8.540	8.582	HH	16120	377161	35.22%	0.910%
104	8.617	8.582	8.640	HH	21731	547122	51.09%	1.320%
105	8.667	8.640	8.681	HH	16472	348740	32.56%	0.841%
106	8.691	8.681	8.704	HH	14776	190918	17.83%	0.460%
107	8.727	8.704	8.749	HH	21976	459752	42.93%	1.109%
108	8.765	8.749	8.775	HH	13699	205655	19.20%	0.496%
109	8.786	8.775	8.804	HH	14167	221110	20.65%	0.533%
110	8.818	8.804	8.833	HH	13661	212703	19.86%	0.513%
111	8.860	8.833	8.886	HH	14713	398021	37.16%	0.960%
112	8.900	8.886	8.911	HH	11306	155346	14.50%	0.375%
113	8.929	8.911	8.944	HH	15346	253523	23.67%	0.611%
114	8.965	8.944	8.980	HH	14680	280224	26.17%	0.676%
115	8.993	8.980	9.010	HH	12344	197849	18.47%	0.477%
116	9.030	9.010	9.052	HH	18389	338535	31.61%	0.816%
117	9.113	9.052	9.137	HH	41490	932954	87.11%	2.250%
118	9.151	9.137	9.170	HH	11291	213225	19.91%	0.514%
119	9.189	9.170	9.206	HH	11748	225072	21.02%	0.543%
120	9.227	9.206	9.243	HH	11629	238650	22.28%	0.576%
121	9.259	9.243	9.277	HH	14612	247210	23.08%	0.596%
122	9.287	9.277	9.309	HH	10109	180657	16.87%	0.436%
123	9.340	9.309	9.357	HH	14186	327918	30.62%	0.791%
124	9.365	9.357	9.375	HH	11653	122918	11.48%	0.296%
125	9.384	9.375	9.400	HH	11447	158128	14.76%	0.381%
126	9.426	9.400	9.462	HH	12469	379877	35.47%	0.916%
127	9.484	9.462	9.504	HH	11921	246279	23.00%	0.594%
128	9.529	9.504	9.535	HH	10008	168547	15.74%	0.406%
129	9.542	9.535	9.568	HH	10371	172291	16.09%	0.416%
130	9.577	9.568	9.589	HH	7280	88601	8.27%	0.214%
131	9.600	9.589	9.614	HH	8175	113969	10.64%	0.275%
132	9.634	9.614	9.650	HH	9086	181109	16.91%	0.437%
133	9.661	9.650	9.667	HH	8192	78852	7.36%	0.190%
134	9.683	9.667	9.714	HH	10238	248268	23.18%	0.599%
135	9.727	9.714	9.747	HH	7917	143388	13.39%	0.346%
136	9.773	9.747	9.823	HH	11608	385881	36.03%	0.931%
137	9.850	9.823	9.880	HH	11540	299523	27.97%	0.722%
138	9.889	9.880	9.901	HH	6908	84786	7.92%	0.204%
139	9.940	9.901	9.985	HH	11990	384956	35.94%	0.928%
140	10.009	9.985	10.017	HH	6090	107694	10.06%	0.260%
141	10.045	10.017	10.073	HH	30983	451558	42.16%	1.089%

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142	10.093	10.073	10.111	HH	7229	148405	13.86%	0.358%
143	10.137	10.111	10.167	HH	9647	249668	23.31%	0.602%
144	10.184	10.167	10.202	HH	7346	136653	12.76%	0.330%
145	10.213	10.202	10.225	HH	5903	79028	7.38%	0.191%
146	10.241	10.225	10.253	HH	6310	97415	9.10%	0.235%
147	10.259	10.253	10.269	HH	5628	52245	4.88%	0.126%
148	10.284	10.269	10.321	HH	6234	163962	15.31%	0.395%
149	10.352	10.321	10.377	HH	5431	156988	14.66%	0.379%
150	10.396	10.377	10.405	HH	4948	79840	7.45%	0.193%
151	10.413	10.405	10.439	HH	4868	85547	7.99%	0.206%
152	10.458	10.439	10.489	HH	5207	127823	11.94%	0.308%
153	10.519	10.489	10.542	HH	8028	179096	16.72%	0.432%
154	10.570	10.542	10.598	HH	13646	265572	24.80%	0.640%
155	10.647	10.598	10.677	HH	5263	215075	20.08%	0.519%
156	10.694	10.677	10.705	HH	3941	62987	5.88%	0.152%
157	10.719	10.705	10.742	HH	4374	80858	7.55%	0.195%
158	10.765	10.742	10.797	HH	3662	103605	9.67%	0.250%
159	10.821	10.797	10.835	HH	3710	78297	7.31%	0.189%
160	10.853	10.835	10.883	HH	4268	102839	9.60%	0.248%
161	10.899	10.883	10.911	HH	3698	57328	5.35%	0.138%
162	10.925	10.911	10.956	HH	3976	94694	8.84%	0.228%
163	10.995	10.956	11.025	HV	14172	274867	25.66%	0.663%
164	11.040	11.025	11.082	VV	3300	91866	8.58%	0.222%
165	11.112	11.082	11.124	VV	2415	57828	5.40%	0.139%
166	11.136	11.124	11.152	VV	2554	39766	3.71%	0.096%
167	11.173	11.152	11.189	VV	2760	54329	5.07%	0.131%
168	11.193	11.189	11.227	VV	2548	50191	4.69%	0.121%
169	11.247	11.227	11.286	VV	3111	85040	7.94%	0.205%
170	11.316	11.286	11.351	VV	3426	93148	8.70%	0.225%
171	11.355	11.351	11.359	VV	1644	8042	0.75%	0.019%
172	11.363	11.359	11.369	VV	1672	9415	0.88%	0.023%
173	11.391	11.369	11.427	VV	1713	55474	5.18%	0.134%
174	11.434	11.427	11.439	VV	1457	10428	0.97%	0.025%
175	11.454	11.439	11.459	VV	1611	18546	1.73%	0.045%
176	11.462	11.459	11.466	VV	1562	5814	0.54%	0.014%
177	11.482	11.466	11.504	VV	1816	36747	3.43%	0.089%
178	11.521	11.504	11.525	VV	1665	18558	1.73%	0.045%
179	11.531	11.525	11.542	VV	1683	17144	1.60%	0.041%
180	11.564	11.542	11.598	VV	1883	53166	4.96%	0.128%
181	11.621	11.598	11.637	VV	1586	33860	3.16%	0.082%
182	11.653	11.637	11.682	VV	1454	33616	3.14%	0.081%
183	11.718	11.682	11.749	VV	5401	108104	10.09%	0.261%
184	11.766	11.749	11.771	VV	1152	14276	1.33%	0.034%
185	11.779	11.771	11.806	VV	1180	20007	1.87%	0.048%
186	11.826	11.806	11.848	VV	1192	22483	2.10%	0.054%
187	11.869	11.848	11.874	VV	850	11085	1.04%	0.027%
188	11.892	11.874	11.954	VV	1154	44400	4.15%	0.107%
189	11.977	11.954	11.992	VV	1033	19292	1.80%	0.047%
190	12.005	11.992	12.031	VV	993	19002	1.77%	0.046%
191	12.036	12.031	12.052	VV	660	7524	0.70%	0.018%
192	12.075	12.052	12.084	VV	708	11226	1.05%	0.027%
193	12.111	12.084	12.141	VV	987	26069	2.43%	0.063%
194	12.155	12.141	12.217	VV	636	22746	2.12%	0.055%

					rteres			
195	12.228	12.217	12.247	VV	444	7196	0.67%	0.017%
196	12.276	12.247	12.303	VV	1308	27406	2.56%	0.066%
197	12.317	12.303	12.331	VV	514	7308	0.68%	0.018%
198	12.346	12.331	12.362	VV	540	7972	0.74%	0.019%
199	12.389	12.362	12.400	VV	541	10135	0.95%	0.024%
200	12.405	12.400	12.419	VV	494	5242	0.49%	0.013%
201	12.423	12.419	12.480	VV	461	12149	1.13%	0.029%
202	12.539	12.480	12.612	VV	19076	260399	24.31%	0.628%
203	12.627	12.612	12.640	VV	831	11700	1.09%	0.028%
204	12.653	12.640	12.696	VV	713	16409	1.53%	0.040%
205	12.719	12.696	12.750	VV	438	11480	1.07%	0.028%
206	12.771	12.750	12.814	VV	487	12266	1.15%	0.030%
207	12.820	12.814	12.839	VV	199	2284	0.21%	0.006%
208	12.876	12.839	12.897	VV	896	17461	1.63%	0.042%
209	12.912	12.897	12.925	VV	371	5405	0.50%	0.013%
210	12.938	12.925	12.956	VV	586	7891	0.74%	0.019%
211	12.960	12.956	12.974	VV	221	1932	0.18%	0.005%
212	13.015	12.974	13.048	VV	1158	23151	2.16%	0.056%
213	13.057	13.048	13.074	VV	151	1634	0.15%	0.004%
214	13.084	13.074	13.099	VV	183	1888	0.18%	0.005%
215	13.113	13.099	13.134	VV	104	1450	0.14%	0.003%
216	13.145	13.134	13.163	PV	130	1418	0.13%	0.003%
217	13.179	13.163	13.184	VV	219	1957	0.18%	0.005%
218	13.187	13.184	13.192	VV	234	969	0.09%	0.002%
219	13.212	13.192	13.235	VV	290	4486	0.42%	0.011%
220	13.241	13.235	13.265	VV	161	1232	0.12%	0.003%
221	13.291	13.265	13.320	VV	470	5511	0.51%	0.013%
222	13.340	13.320	13.371	VV	307	5592	0.52%	0.013%
223	13.394	13.371	13.408	VV	228	3108	0.29%	0.007%
224	13.439	13.408	13.459	VV	300	6093	0.57%	0.015%
225	13.463	13.459	13.489	VV	207	2800	0.26%	0.007%
226	13.496	13.489	13.532	VV	207	2418	0.23%	0.006%
227	13.566	13.532	13.600	PV	851	18496	1.73%	0.045%
228	13.622	13.600	13.671	VV	783	17886	1.67%	0.043%
229	13.686	13.671	13.702	VV	274	3982	0.37%	0.010%
230	13.720	13.702	13.735	VV	332	4651	0.43%	0.011%
231	13.746	13.735	13.753	VV	282	2619	0.24%	0.006%
232	13.778	13.753	13.830	VV	2421	40452	3.78%	0.098%
233	13.833	13.830	13.840	VV	215	1152	0.11%	0.003%
234	13.843	13.840	13.853	VV	198	1240	0.12%	0.003%
235	13.877	13.853	13.897	VV	239	4235	0.40%	0.010%
236	13.902	13.897	13.915	VV	111	389	0.04%	0.001%
237	13.919	13.915	13.922	PV	59	145	0.01%	0.000%
238	13.926	13.922	13.929	VV	67	191	0.02%	0.000%
239	13.955	13.929	13.985	VV	387	5597	0.52%	0.013%
240	13.993	13.985	14.041	VB	129	1869	0.17%	0.005%
241	14.089	14.042	14.113	BV	1664	20874	1.95%	0.050%
242	14.116	14.113	14.121	VV	75	215	0.02%	0.001%
243	14.151	14.121	14.178	PV	298	6354	0.59%	0.015%
244	14.200	14.178	14.216	VV	187	2282	0.21%	0.006%
245	14.224	14.216	14.228	VV	98	445	0.04%	0.001%
246	14.233	14.228	14.251	VV	115	1139	0.11%	0.003%

					rteres			
247	14.260	14.251	14.275	VV	107	959	0.09%	0.002%
248	14.292	14.275	14.309	VV	125	1639	0.15%	0.004%
249	14.314	14.309	14.321	VV	72	185	0.02%	0.000%
250	14.361	14.321	14.365	PV	211	3392	0.32%	0.008%
251	14.379	14.365	14.397	VV	289	4154	0.39%	0.010%
252	14.411	14.397	14.433	VV	168	2423	0.23%	0.006%
253	14.439	14.433	14.444	VV	111	489	0.05%	0.001%
254	14.447	14.444	14.461	VV	136	851	0.08%	0.002%
255	14.502	14.461	14.514	VV	346	5947	0.56%	0.014%
256	14.529	14.514	14.563	VV	455	8544	0.80%	0.021%
257	14.578	14.563	14.584	VV	213	2057	0.19%	0.005%
258	14.586	14.584	14.604	VV	236	2140	0.20%	0.005%
259	14.628	14.604	14.642	VV	174	3230	0.30%	0.008%
260	14.649	14.642	14.674	VV	178	2261	0.21%	0.005%
261	14.708	14.674	14.736	VV	517	10385	0.97%	0.025%
262	14.760	14.736	14.785	VV	811	14327	1.34%	0.035%
263	14.800	14.785	14.814	VV	402	5003	0.47%	0.012%
264	14.821	14.814	14.837	VV	270	3150	0.29%	0.008%
265	14.865	14.837	14.899	VV	365	6922	0.65%	0.017%
266	14.926	14.899	14.941	VV	361	5151	0.48%	0.012%
267	14.945	14.941	14.965	VV	169	1530	0.14%	0.004%
268	14.971	14.965	14.982	VV	135	1124	0.10%	0.003%
269	14.986	14.982	14.993	VV	143	754	0.07%	0.002%
270	14.998	14.993	15.005	VV	145	770	0.07%	0.002%
271	15.040	15.005	15.073	VV	32382	448105	41.84%	1.081%
272	15.082	15.073	15.114	VV	427	6095	0.57%	0.015%
273	15.119	15.114	15.124	VV	156	746	0.07%	0.002%
274	15.144	15.124	15.159	VV	194	2972	0.28%	0.007%
275	15.171	15.159	15.182	VV	210	2294	0.21%	0.006%
276	15.205	15.182	15.225	VV	908	14656	1.37%	0.035%
277	15.240	15.225	15.265	VV	635	9974	0.93%	0.024%
278	15.287	15.265	15.315	VV	1209	16641	1.55%	0.040%
279	15.327	15.315	15.370	VV	146	2556	0.24%	0.006%
280	15.378	15.370	15.408	VV	138	1695	0.16%	0.004%
281	15.412	15.408	15.417	PV	50	131	0.01%	0.000%
282	15.443	15.417	15.454	VV	135	1682	0.16%	0.004%
283	15.471	15.454	15.476	PV	107	694	0.06%	0.002%
284	15.490	15.476	15.520	VV	194	2592	0.24%	0.006%
285	15.538	15.520	15.564	VV	111	1644	0.15%	0.004%
286	15.620	15.564	15.709	VV	8166	141307	13.19%	0.341%
287	15.715	15.709	15.738	VV	365	5033	0.47%	0.012%
288	15.763	15.738	15.794	VV	725	13332	1.24%	0.032%
289	15.837	15.794	15.873	VV	1826	30155	2.82%	0.073%
290	15.889	15.873	15.895	VV	198	1996	0.19%	0.005%
291	15.900	15.895	15.919	VV	219	1407	0.13%	0.003%
292	15.926	15.919	15.942	VV	96	965	0.09%	0.002%
293	15.946	15.942	15.952	VV	106	365	0.03%	0.001%
294	15.957	15.952	15.961	VV	89	244	0.02%	0.001%
295	15.988	15.961	15.992	VV	92	1148	0.11%	0.003%
296	15.999	15.992	16.004	VV	119	655	0.06%	0.002%
297	16.052	16.004	16.069	VV	258	6271	0.59%	0.015%
298	16.076	16.069	16.088	VV	169	1495	0.14%	0.004%
299	16.096	16.088	16.109	VV	125	1025	0.10%	0.002%

					rteres				
300	16.110	16.109	16.114	VV	121	245	0.02%	0.001%	
301	16.138	16.114	16.161	PV	315	5264	0.49%	0.013%	
302	16.166	16.161	16.177	VV	175	1599	0.15%	0.004%	
303	16.182	16.177	16.196	VV	202	1492	0.14%	0.004%	
304	16.199	16.196	16.204	VV	93	333	0.03%	0.001%	
305	16.218	16.204	16.241	VV	157	2205	0.21%	0.005%	
306	16.264	16.241	16.299	VV	709	10225	0.95%	0.025%	
307	16.329	16.299	16.353	VV	242	4228	0.39%	0.010%	
308	16.361	16.353	16.369	PV	69	338	0.03%	0.001%	
309	16.383	16.369	16.389	VV	88	677	0.06%	0.002%	
310	16.411	16.389	16.430	VV	135	2078	0.19%	0.005%	
311	16.458	16.430	16.465	VV	213	3118	0.29%	0.008%	
312	16.472	16.465	16.479	VV	191	1172	0.11%	0.003%	
313	16.483	16.479	16.512	VV	120	1741	0.16%	0.004%	
314	16.516	16.512	16.520	VV	116	367	0.03%	0.001%	
315	16.558	16.520	16.579	VV	247	4199	0.39%	0.010%	
316	16.597	16.579	16.603	VV	121	1343	0.13%	0.003%	
317	16.609	16.603	16.614	VV	132	573	0.05%	0.001%	
318	16.639	16.614	16.680	VV	661	13140	1.23%	0.032%	
319	16.716	16.680	16.722	VV	491	8027	0.75%	0.019%	
320	16.750	16.722	16.782	VV	1169	20011	1.87%	0.048%	
321	16.825	16.782	16.847	VV	539	10597	0.99%	0.026%	
322	16.853	16.847	16.867	VV	153	1321	0.12%	0.003%	
323	16.875	16.867	16.889	VV	178	1896	0.18%	0.005%	
324	16.893	16.889	16.901	VV	191	1114	0.10%	0.003%	
325	16.907	16.901	16.928	VV	174	1606	0.15%	0.004%	
326	16.949	16.928	16.958	VV	134	1653	0.15%	0.004%	
327	16.964	16.958	16.992	VV	118	1530	0.14%	0.004%	
328	16.997	16.992	17.005	VV	116	502	0.05%	0.001%	
329	17.017	17.005	17.024	PV	98	716	0.07%	0.002%	
330	17.040	17.024	17.046	VV	143	1246	0.12%	0.003%	
331	17.050	17.046	17.085	VV	128	1360	0.13%	0.003%	
332	17.109	17.085	17.146	VV	351	6922	0.65%	0.017%	
333	17.182	17.146	17.192	VV	418	6618	0.62%	0.016%	
334	17.215	17.192	17.244	VV	1959	28238	2.64%	0.068%	
335	17.265	17.244	17.287	VV	830	12643	1.18%	0.030%	
336	17.291	17.287	17.326	VV	327	3487	0.33%	0.008%	
337	17.335	17.326	17.350	PBA	89	781	0.07%	0.002%	
				Sum of corrected areas:		41464049			

FG111324.M Tue Nov 19 02:29:47 2024

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-20		SDG No.:	P4839	
Lab Sample ID:	P4839-12		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	79.2	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
FG014827.D	10	11/14/24 13:15	11/16/24 15:46	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	265000		2330	21100	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.38		37 - 130	69%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014827.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 15:46
Operator : YP\AJ
Sample : P4839-12 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-20

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
Quant Time: Nov 18 05:52:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.041	154339	1.376 ug/mlm

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014827.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 15:46
Operator : YP\AJ
Sample : P4839-12 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

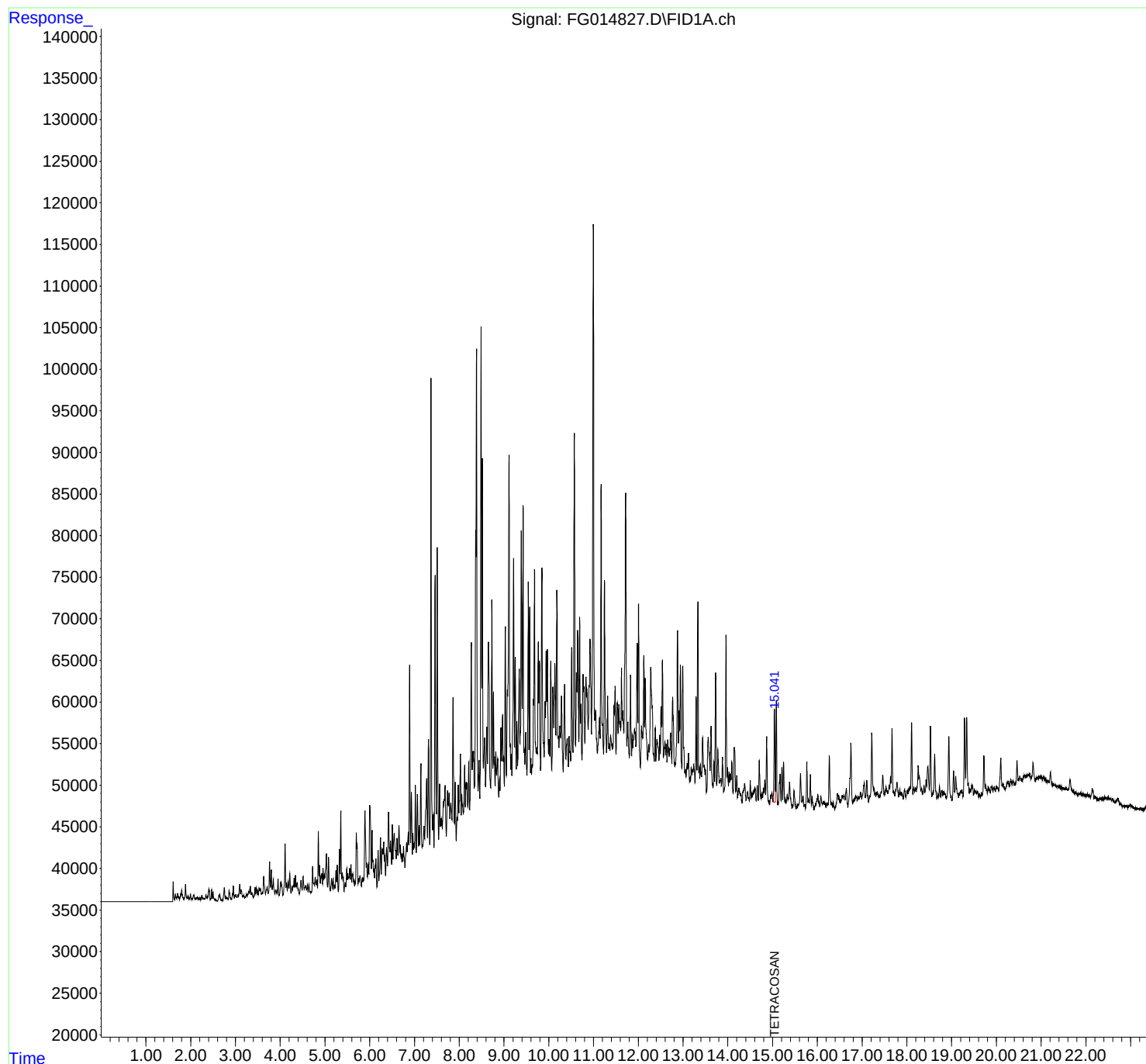
Instrument :
FID_G
ClientSampleId :
EX-9-TPH-20

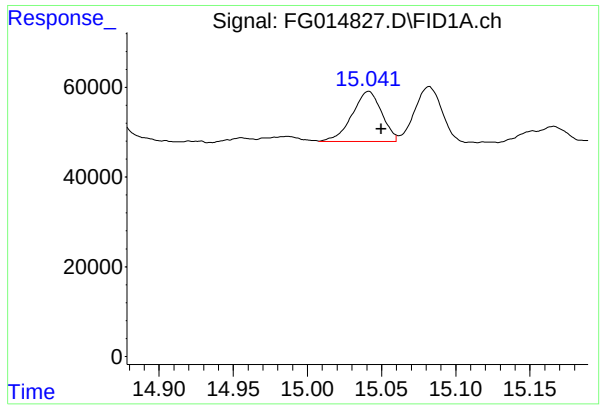
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
Quant Time: Nov 18 05:52:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.041 min
Delta R.T.: -0.009 min
Response: 154339
Conc: 1.38 ug/ml

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-20

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/18/2024

Supervised By :Ankita Jodhani 11/18/2024

rtres

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-20

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11162
Data File : FG014827.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 15:46
Sample : P4839-12 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.511	4.490	4.538	VV	2209	37185	2.37%	0.047%
2	4.567	4.538	4.588	VV	1019	24639	1.57%	0.031%
3	4.606	4.588	4.623	VV	1188	15917	1.01%	0.020%
4	4.640	4.623	4.669	VV	1177	18322	1.17%	0.023%
5	4.674	4.669	4.688	VV	300	2736	0.17%	0.003%
6	4.697	4.688	4.701	VV	267	1891	0.12%	0.002%
7	4.725	4.701	4.741	VV	3339	38755	2.47%	0.049%
8	4.754	4.741	4.766	VV	1339	18061	1.15%	0.023%
9	4.783	4.766	4.807	VV	1961	35690	2.27%	0.045%
10	4.821	4.807	4.835	VV	1708	22606	1.44%	0.028%
11	4.853	4.835	4.868	VV	7489	78748	5.02%	0.099%
12	4.878	4.868	4.896	VV	3405	40235	2.56%	0.051%
13	4.912	4.896	4.922	VV	2127	29027	1.85%	0.037%
14	4.931	4.922	4.944	VV	2378	25144	1.60%	0.032%
15	4.957	4.944	4.974	VV	2997	37718	2.40%	0.048%
16	4.988	4.974	4.998	VV	2288	28761	1.83%	0.036%
17	5.033	4.998	5.060	VV	4734	98082	6.25%	0.124%
18	5.081	5.060	5.118	VV	4290	60279	3.84%	0.076%
19	5.149	5.118	5.167	VV	1723	27536	1.75%	0.035%
20	5.183	5.167	5.202	VV	1666	21382	1.36%	0.027%
21	5.215	5.202	5.227	VV	824	9324	0.59%	0.012%
22	5.246	5.227	5.261	VV	2632	33884	2.16%	0.043%
23	5.275	5.261	5.301	VV	3263	39314	2.51%	0.050%
24	5.325	5.301	5.338	PV	5160	58676	3.74%	0.074%
25	5.355	5.338	5.375	VV	9718	110162	7.02%	0.139%
26	5.389	5.375	5.402	VV	2302	30150	1.92%	0.038%
27	5.410	5.402	5.427	VV	1664	15404	0.98%	0.019%
28	5.455	5.427	5.467	PV	1028	15624	1.00%	0.020%
29	5.487	5.467	5.500	VV	2748	35032	2.23%	0.044%
30	5.511	5.500	5.526	VV	2128	26391	1.68%	0.033%
31	5.552	5.526	5.566	VV	2706	47731	3.04%	0.060%
32	5.581	5.566	5.598	VV	3139	40625	2.59%	0.051%
33	5.612	5.598	5.641	VV	1979	41383	2.64%	0.052%
34	5.648	5.641	5.663	VV	1207	11878	0.76%	0.015%
35	5.675	5.663	5.683	VV	1042	10271	0.65%	0.013%
36	5.702	5.683	5.712	VV	6866	72656	4.63%	0.092%

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37	5.719	5.712	5.741	VV	5648	59253	3.78%	0.075%
38	5.755	5.741	5.765	VV	1349	15669		
39	5.782	5.765	5.815	VV	1638	33612		
40	5.836	5.815	5.848	VV	1387	19658		
41	5.859	5.848	5.868	VV	1286	13209		
42	5.894	5.868	5.924	VV	9397	172854	11.01%	0.045%
43	5.931	5.924	5.948	VV	3110	35788	2.28%	0.045%
44	5.970	5.948	5.982	VV	2944	43537	2.77%	0.055%
45	6.001	5.982	6.038	VV	9997	216787	13.82%	0.273%
46	6.053	6.038	6.067	VV	6953	79312	5.05%	0.100%
47	6.073	6.067	6.086	VV	3393	32699	2.08%	0.041%
48	6.094	6.086	6.107	VV	2325	23752	1.51%	0.030%
49	6.122	6.107	6.127	VV	2606	25313	1.61%	0.032%
50	6.139	6.127	6.163	VV	3485	41156	2.62%	0.052%
51	6.189	6.163	6.207	VV	4447	52987	3.38%	0.067%
52	6.241	6.207	6.260	VV	5963	93620	5.97%	0.118%
53	6.277	6.260	6.282	VV	4521	45887	2.92%	0.058%
54	6.289	6.282	6.300	VV	4468	45240	2.88%	0.057%
55	6.314	6.300	6.327	VV	5387	71440	4.55%	0.090%
56	6.336	6.327	6.355	VV	3694	46000	2.93%	0.058%
57	6.377	6.355	6.398	VV	4678	84268	5.37%	0.106%
58	6.421	6.398	6.454	VV	8907	189656	12.09%	0.239%
59	6.465	6.454	6.491	VV	5410	95805	6.11%	0.121%
60	6.507	6.491	6.521	VV	7338	87790	5.60%	0.111%
61	6.548	6.521	6.593	VV	6273	204171	13.01%	0.257%
62	6.611	6.593	6.630	VV	5643	98071	6.25%	0.124%
63	6.654	6.630	6.673	VV	7127	135540	8.64%	0.171%
64	6.684	6.673	6.699	VV	4800	65379	4.17%	0.082%
65	6.707	6.699	6.721	VV	3556	41491	2.64%	0.052%
66	6.732	6.721	6.744	VV	3707	45351	2.89%	0.057%
67	6.757	6.744	6.788	VV	4536	86790	5.53%	0.109%
68	6.826	6.788	6.838	VV	4952	111719	7.12%	0.141%
69	6.863	6.838	6.873	VV	6204	108206	6.90%	0.136%
70	6.892	6.873	6.916	VV	26247	338475	21.57%	0.426%
71	6.932	6.916	6.954	VV	10948	171637	10.94%	0.216%
72	6.966	6.954	6.979	VV	5996	72974	4.65%	0.092%
73	6.990	6.979	7.001	VV	4754	59156	3.77%	0.075%
74	7.021	7.001	7.041	VV	11750	168131	10.72%	0.212%
75	7.067	7.041	7.091	VV	10581	205292	13.08%	0.259%
76	7.104	7.091	7.117	VV	6869	86423	5.51%	0.109%
77	7.143	7.117	7.171	VV	14259	256343	16.34%	0.323%
78	7.179	7.171	7.187	VV	4394	41231	2.63%	0.052%
79	7.212	7.187	7.229	VV	6684	138993	8.86%	0.175%
80	7.272	7.229	7.292	VV	12397	319672	20.37%	0.403%
81	7.312	7.292	7.342	VV	17039	291288	18.56%	0.367%
82	7.370	7.342	7.407	VV	60448	784122	49.97%	0.988%
83	7.421	7.407	7.438	VV	7943	116076	7.40%	0.146%
84	7.461	7.438	7.491	VV	36639	557295	35.52%	0.702%
85	7.509	7.491	7.541	VV	39812	544919	34.73%	0.687%
86	7.562	7.541	7.579	VV	11543	183789	11.71%	0.232%
87	7.590	7.579	7.599	VV	7383	82954	5.29%	0.105%
88	7.609	7.599	7.623	VV	7270	97967	6.24%	0.123%
89	7.648	7.623	7.656	VV	9385	157755	10.05%	0.199%

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90	7.666	7.656	7.670	VV	9604	83889	5.35%	0.106%
91	7.684	7.670	7.713	VV	11287	218711	13.88%	0.106%
92	7.741	7.713	7.763	VV	10626	256600	16.25%	0.106%
93	7.774	7.763	7.792	VV	10339	155465	9.89%	0.106%
94	7.812	7.792	7.838	VV	9139	227545	14.42%	0.106%
95	7.863	7.838	7.893	VV	21736	408257	26.25%	0.106%
96	7.913	7.893	7.933	VV	11513	202126	12.88%	0.255%
97	7.952	7.933	7.961	VV	7224	105940	6.75%	0.133%
98	7.979	7.961	7.992	VV	11152	168730	10.75%	0.213%
99	8.027	7.992	8.045	VV	14831	337384	21.50%	0.425%
100	8.058	8.045	8.072	VV	9986	147609	9.41%	0.186%
101	8.076	8.072	8.091	VV	8648	94260	6.01%	0.119%
102	8.121	8.091	8.138	VV	13409	282146	17.98%	0.356%
103	8.153	8.138	8.163	VV	11358	156817	9.99%	0.198%
104	8.171	8.163	8.193	VV	11263	174123	11.10%	0.219%
105	8.213	8.193	8.234	VV	13737	256747	16.36%	0.324%
106	8.270	8.234	8.291	VV	28092	562673	35.86%	0.709%
107	8.302	8.291	8.312	VV	14951	180394	11.50%	0.227%
108	8.320	8.312	8.335	VV	14986	183884	11.72%	0.232%
109	8.368	8.335	8.374	VV	41475	504591	32.16%	0.636%
110	8.387	8.374	8.423	VV	63260	941901	60.03%	1.187%
111	8.443	8.423	8.461	VV	13790	263138	16.77%	0.332%
112	8.489	8.461	8.504	VV	65678	878806	56.01%	1.107%
113	8.517	8.504	8.540	VV	50058	633087	40.35%	0.798%
114	8.568	8.540	8.588	VV	16457	401941	25.62%	0.506%
115	8.617	8.588	8.629	VV	17689	355006	22.63%	0.447%
116	8.652	8.629	8.702	VV	27861	804515	51.27%	1.014%
117	8.730	8.702	8.749	VV	32926	558727	35.61%	0.704%
118	8.765	8.749	8.780	VV	21828	313724	19.99%	0.395%
119	8.787	8.780	8.802	VV	13989	165246	10.53%	0.208%
120	8.818	8.802	8.833	VV	14613	239956	15.29%	0.302%
121	8.860	8.833	8.884	VV	13744	361503	23.04%	0.456%
122	8.901	8.884	8.912	VV	11297	174158	11.10%	0.219%
123	8.931	8.912	8.944	VV	17403	269545	17.18%	0.340%
124	8.969	8.944	8.984	VV	18948	381195	24.29%	0.480%
125	8.992	8.984	9.009	VV	13875	186299	11.87%	0.235%
126	9.030	9.009	9.054	VV	29485	502183	32.01%	0.633%
127	9.076	9.054	9.082	VV	21880	295805	18.85%	0.373%
128	9.112	9.082	9.153	VV	49908	1088259	69.36%	1.371%
129	9.164	9.153	9.176	VV	14124	184684	11.77%	0.233%
130	9.215	9.176	9.235	VV	37544	777138	49.53%	0.979%
131	9.252	9.235	9.274	VV	25660	458575	29.23%	0.578%
132	9.288	9.274	9.305	VV	17920	281636	17.95%	0.355%
133	9.340	9.305	9.356	VV	24181	551787	35.17%	0.695%
134	9.388	9.356	9.408	VV	40794	770922	49.13%	0.971%
135	9.427	9.408	9.447	VV	43675	639365	40.75%	0.806%
136	9.453	9.447	9.466	VV	14426	154372	9.84%	0.195%
137	9.485	9.466	9.513	VV	16479	389977	24.85%	0.491%
138	9.544	9.513	9.560	VV	34620	585194	37.30%	0.737%
139	9.575	9.560	9.593	VV	31375	405568	25.85%	0.511%
140	9.602	9.593	9.615	VV	13226	165383	10.54%	0.208%
141	9.630	9.615	9.635	VV	12559	144570	9.21%	0.182%

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retenes								
142	9.661	9.635	9.666	VV	20366	291811	18.60%	0.368%
143	9.682	9.666	9.723	VV	35934	727361	46.94%	0.612%
144	9.731	9.723	9.744	VV	14425	180212	11.96%	1.225%
145	9.766	9.744	9.780	VV	27216	448419	28.99%	0.573%
						Manual IntegrationsAPPROVED		
						Reviewed By :Yogesh Patel 11/18/2024		
						Supervised By :Ankita Jodhani 11/18/2024		
146	9.791	9.780	9.817	VV	24866	415907	26.94%	0.533%
147	9.846	9.817	9.898	VV	36006	972514	61.96%	1.225%
148	9.918	9.898	9.927	VV	19941	303302	19.33%	0.382%
149	9.943	9.927	9.957	VV	25936	402179	25.63%	0.507%
150	9.971	9.957	9.995	VV	26158	454833	28.99%	0.573%
151	10.008	9.995	10.026	VV	15306	268641	17.12%	0.339%
152	10.045	10.026	10.067	VV	24684	422701	26.94%	0.533%
153	10.092	10.067	10.113	VV	21560	485442	30.94%	0.612%
154	10.138	10.113	10.159	VV	24327	554823	35.36%	0.699%
155	10.182	10.159	10.208	VV	33144	680496	43.37%	0.857%
156	10.213	10.208	10.229	VV	15540	191614	12.21%	0.241%
157	10.245	10.229	10.266	VV	16769	342562	21.83%	0.432%
158	10.286	10.266	10.323	VV	20376	541012	34.48%	0.682%
159	10.352	10.323	10.382	VV	21710	567854	36.19%	0.716%
160	10.411	10.382	10.438	VV	15093	465742	29.68%	0.587%
161	10.456	10.438	10.490	VV	15390	425610	27.13%	0.536%
162	10.513	10.490	10.541	VV	26000	555137	35.38%	0.700%
163	10.571	10.541	10.598	VV	51740	972171	61.96%	1.225%
164	10.620	10.598	10.631	VV	22943	383308	24.43%	0.483%
165	10.647	10.631	10.673	VV	27988	554673	35.35%	0.699%
166	10.690	10.673	10.709	VV	29530	473566	30.18%	0.597%
167	10.719	10.709	10.741	VV	19037	318023	20.27%	0.401%
168	10.767	10.741	10.775	VV	22648	366629	23.37%	0.462%
169	10.785	10.775	10.806	VV	21153	348541	22.21%	0.439%
170	10.831	10.806	10.843	VV	22307	412300	26.28%	0.520%
171	10.850	10.843	10.882	VV	20827	451384	28.77%	0.569%
172	10.923	10.882	10.954	VV	26767	905236	57.69%	1.141%
173	10.996	10.954	11.026	VV	76367	1569061	100.00%	1.977%
174	11.044	11.026	11.065	VV	18042	390158	24.87%	0.492%
175	11.069	11.065	11.086	VV	14660	180862	11.53%	0.228%
176	11.133	11.086	11.147	VV	17120	552742	35.23%	0.696%
177	11.170	11.147	11.192	VV	45139	725999	46.27%	0.915%
178	11.196	11.192	11.225	VV	16452	292976	18.67%	0.369%
179	11.245	11.225	11.288	VV	33652	760380	48.46%	0.958%
180	11.316	11.288	11.339	VV	19666	481178	30.67%	0.606%
181	11.354	11.339	11.366	VV	13814	220727	14.07%	0.278%
182	11.383	11.366	11.422	VV	14998	473519	30.18%	0.597%
183	11.456	11.422	11.465	VV	18340	392362	25.01%	0.494%

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195	11.975	11.946	11.990	VV	25511	486448	31.00%	0.613%	
196	12.006	11.990	12.046	VV	30264	599982	38.00%	0.613%	
197	12.071	12.046	12.101	VV	15544	456670	29.00%	0.613%	
198	12.124	12.101	12.140	VV	23961	435721	27.00%	0.613%	
199	12.155	12.140	12.207	VV	21231	623408	39.00%	0.613%	
200	12.232	12.207	12.241	VV	13226	253606	16.00%	0.613%	
201	12.279	12.241	12.356	VV	22562	1102063	70.24%	1.389%	
202	12.378	12.356	12.394	VV	15145	293036	18.68%	0.369%	
203	12.417	12.394	12.462	VV	13710	513793	32.75%	0.647%	
204	12.478	12.462	12.490	VV	14196	222050	14.15%	0.280%	
205	12.510	12.490	12.523	VV	17502	304844	19.43%	0.384%	
206	12.539	12.523	12.562	VV	23189	402876	25.68%	0.508%	
207	12.595	12.562	12.611	VV	13355	362683	23.11%	0.457%	
208	12.625	12.611	12.640	VV	12988	209229	13.33%	0.264%	
209	12.657	12.640	12.688	VV	13506	356143	22.70%	0.449%	
210	12.723	12.688	12.748	VV	14334	450610	28.72%	0.568%	
211	12.768	12.748	12.817	VV	18604	568700	36.24%	0.717%	
212	12.824	12.817	12.829	VV	10571	77120	4.92%	0.097%	
213	12.877	12.829	12.896	VV	26517	654907	41.74%	0.825%	
214	12.914	12.896	12.925	VV	16932	262896	16.76%	0.331%	
215	12.940	12.925	12.972	VV	22358	434209	27.67%	0.547%	
216	12.992	12.972	13.011	VV	22158	367160	23.40%	0.463%	
217	13.017	13.011	13.040	VV	12473	185617	11.83%	0.234%	
218	13.056	13.040	13.067	VV	9632	156405	9.97%	0.197%	
219	13.091	13.067	13.107	VV	10386	235558	15.01%	0.297%	
220	13.120	13.107	13.146	VV	11619	233128	14.86%	0.294%	
221	13.158	13.146	13.166	VV	8679	99812	6.36%	0.126%	
222	13.182	13.166	13.200	VV	9846	190065	12.11%	0.239%	
223	13.210	13.200	13.225	VV	9537	139861	8.91%	0.176%	
224	13.237	13.225	13.267	VV	10246	238688	15.21%	0.301%	
225	13.290	13.267	13.309	VV	18321	311515	19.85%	0.393%	
226	13.330	13.309	13.352	VV	29667	457882	29.18%	0.577%	
227	13.361	13.352	13.373	VV	9744	116032	7.40%	0.146%	
228	13.387	13.373	13.410	VV	10105	206811	13.18%	0.261%	
229	13.438	13.410	13.458	VV	13282	314090	20.02%	0.396%	
230	13.469	13.458	13.492	VV	9950	192525	12.27%	0.243%	
231	13.500	13.492	13.523	VV	9402	154715	9.86%	0.195%	
232	13.561	13.523	13.604	VV	13268	511252	32.58%	0.644%	
233	13.624	13.604	13.655	VV	14557	328739	20.95%	0.414%	
234	13.659	13.655	13.668	VV	7683	55385	3.53%	0.070%	
235	13.689	13.668	13.703	VV	10251	179006	11.41%	0.226%	
236	13.727	13.703	13.750	VV	20931	377171	24.04%	0.475%	
237	13.776	13.750	13.811	VV	11636	338281	21.56%	0.426%	
238	13.842	13.811	13.856	VV	8165	211542	13.48%	0.267%	
239	13.879	13.856	13.904	VV	10630	245320	15.63%	0.309%	
240	13.959	13.904	13.980	VV	25332	525961	33.52%	0.663%	
241	13.991	13.980	14.012	VV	9346	163849	10.44%	0.206%	
242	14.028	14.012	14.041	VV	8741	137792	8.78%	0.174%	
243	14.062	14.041	14.071	VV	8488	149000	9.50%	0.188%	
244	14.089	14.071	14.119	VV	9937	228451	14.56%	0.288%	
245	14.144	14.119	14.178	VV	11672	324255	20.67%	0.409%	
246	14.199	14.178	14.217	VV	8265	165277	10.53%	0.208%	

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rteres							Manual IntegrationsAPPROVED	
247	14.247	14.217	14.278	VV	6699	226904	14.46%	0.286%
248	14.287	14.278	14.321	VV	5968	141164	9.35%	0.185%
249	14.358	14.321	14.364	VV	6598	156345	9.35%	0.185%
250	14.375	14.364	14.406	VV	7113	158948	10.74%	0.209%
251	14.440	14.406	14.456	VV	6098	171069	10.74%	0.209%
252	14.462	14.456	14.466	VV	5361	31580	2.74%	0.054%
253	14.468	14.466	14.480	VV	5444	42975	2.74%	0.054%
254	14.500	14.480	14.519	VV	7460	146644	9.35%	0.185%
255	14.533	14.519	14.543	VV	5899	78189	4.98%	0.099%
256	14.575	14.543	14.584	VV	6065	146387	9.33%	0.184%
257	14.604	14.584	14.634	VV	6496	175841	11.21%	0.222%
258	14.660	14.634	14.678	VV	6718	152820	9.74%	0.193%
259	14.702	14.678	14.751	VV	9688	289905	18.48%	0.365%
260	14.763	14.751	14.779	VV	5859	94027	5.99%	0.118%
261	14.796	14.779	14.811	VV	6324	113835	7.25%	0.143%
262	14.826	14.811	14.843	VV	7298	123271	7.86%	0.155%
263	14.867	14.843	14.916	VV	12468	313851	20.00%	0.395%
264	14.920	14.916	14.923	VV	4659	18266	1.16%	0.023%
265	14.927	14.923	14.933	VV	4639	27098	1.73%	0.034%
266	14.956	14.933	14.966	VV	5390	95915	6.11%	0.121%
267	14.986	14.966	15.008	VV	5636	131934	8.41%	0.166%
268	15.041	15.008	15.062	VV	15690	301396	19.21%	0.380%
269	15.082	15.062	15.115	VV	16730	292933	18.67%	0.369%
270	15.166	15.115	15.188	VV	7787	250079	15.94%	0.315%
271	15.208	15.188	15.225	VV	8549	144802	9.23%	0.182%
272	15.245	15.225	15.276	VV	9158	197138	12.56%	0.248%
273	15.286	15.276	15.302	VV	4710	67879	4.33%	0.086%
274	15.329	15.302	15.346	VV	5175	125291	7.99%	0.158%
275	15.378	15.346	15.432	VV	6714	254875	16.24%	0.321%
276	15.440	15.432	15.444	VV	3704	26994	1.72%	0.034%
277	15.478	15.444	15.518	VV	5614	195009	12.43%	0.246%
278	15.526	15.518	15.535	VV	3702	34875	2.22%	0.044%
279	15.540	15.535	15.545	VV	3615	21755	1.39%	0.027%
280	15.558	15.545	15.563	VV	3811	40143	2.56%	0.051%
281	15.569	15.563	15.578	VV	3852	34073	2.17%	0.043%
282	15.623	15.578	15.653	VV	7580	231581	14.76%	0.292%
283	15.680	15.653	15.701	VV	4812	125323	7.99%	0.158%
284	15.716	15.701	15.735	VV	3760	72821	4.64%	0.092%
285	15.766	15.735	15.796	VV	8913	200394	12.77%	0.253%
286	15.802	15.796	15.821	VV	4298	62937	4.01%	0.079%
287	15.843	15.821	15.866	VV	7256	143303	9.13%	0.181%
288	15.883	15.866	15.918	VV	4680	119706	7.63%	0.151%
289	15.926	15.918	15.935	VV	3407	32892	2.10%	0.041%
290	15.953	15.935	15.958	VV	3782	47010	3.00%	0.059%
291	15.962	15.958	15.972	VV	3686	31567	2.01%	0.040%
292	15.991	15.972	15.996	VV	4335	56651	3.61%	0.071%
293	16.010	15.996	16.058	VV	4758	149477	9.53%	0.188%
294	16.077	16.058	16.110	VV	4495	124741	7.95%	0.157%
295	16.119	16.110	16.124	VV	3700	29774	1.90%	0.038%
296	16.133	16.124	16.151	VV	3919	60906	3.88%	0.077%
297	16.158	16.151	16.165	VV	3675	29824	1.90%	0.038%
298	16.172	16.165	16.191	VV	3685	54134	3.45%	0.068%
299	16.226	16.191	16.232	VV	3634	83204	5.30%	0.105%

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300	16.235	16.232	16.239	VV	3562	14619	0.93%	0.018%
301	16.267	16.239	16.313	VV	9305	236169	15.3%	0.018%
302	16.318	16.313	16.338	VV	3603	51156	3.0%	0.018%
303	16.353	16.338	16.389	VV	3619	97046	6.0%	0.018%
304	16.405	16.389	16.409	VV	3206	35708	2.2%	0.018%
305	16.449	16.409	16.469	VV	4596	142930	9.0%	0.018%
306	16.479	16.469	16.496	VV	4334	64160	4.09%	0.081%
307	16.511	16.496	16.523	VV	3903	59006	3.76%	0.074%
308	16.556	16.523	16.585	VV	4349	148456	9.46%	0.187%
309	16.592	16.585	16.623	VV	4332	93725	5.97%	0.118%
310	16.646	16.623	16.679	VV	5140	138455	8.82%	0.174%
311	16.749	16.679	16.784	VV	10491	343432	21.89%	0.433%
312	16.858	16.784	16.875	VV	4000	197374	12.58%	0.249%
313	16.878	16.875	16.888	VV	3926	30751	1.96%	0.039%
314	16.910	16.888	16.919	VV	3945	69710	4.44%	0.088%
315	16.924	16.919	16.934	VV	3846	33678	2.15%	0.042%
316	16.962	16.934	16.967	VV	4470	78370	4.99%	0.099%
317	16.970	16.967	16.991	VV	4344	58862	3.75%	0.074%
318	17.008	16.991	17.013	VV	4192	50728	3.23%	0.064%
319	17.048	17.013	17.071	VV	5511	166577	10.62%	0.210%
320	17.103	17.071	17.141	VV	5781	181284	11.55%	0.228%
321	17.170	17.141	17.176	VV	3903	75881	4.84%	0.096%
322	17.215	17.176	17.251	VV	11398	288890	18.41%	0.364%
323	17.265	17.251	17.288	VV	4760	99186	6.32%	0.125%
324	17.295	17.288	17.305	VV	4188	40109	2.56%	0.051%
325	17.320	17.305	17.328	VV	4096	53940	3.44%	0.068%

Sum of corrected areas: 79361541

FG111324.M Mon Nov 18 06:44:31 2024

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-20

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/13/24
Project:	North Point	Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-21	SDG No.:	P4839
Lab Sample ID:	P4839-13	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	80.6
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014845.D	5	11/14/24 13:15	11/18/24 12:00	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	117000		1150	10300	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	2.68		37 - 130	67%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014845.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 12:00
Operator : YP\AJ
Sample : P4839-13 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-21

Integration File: autoint1.e
Quant Time: Nov 19 01:30:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.041	300914	2.683 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

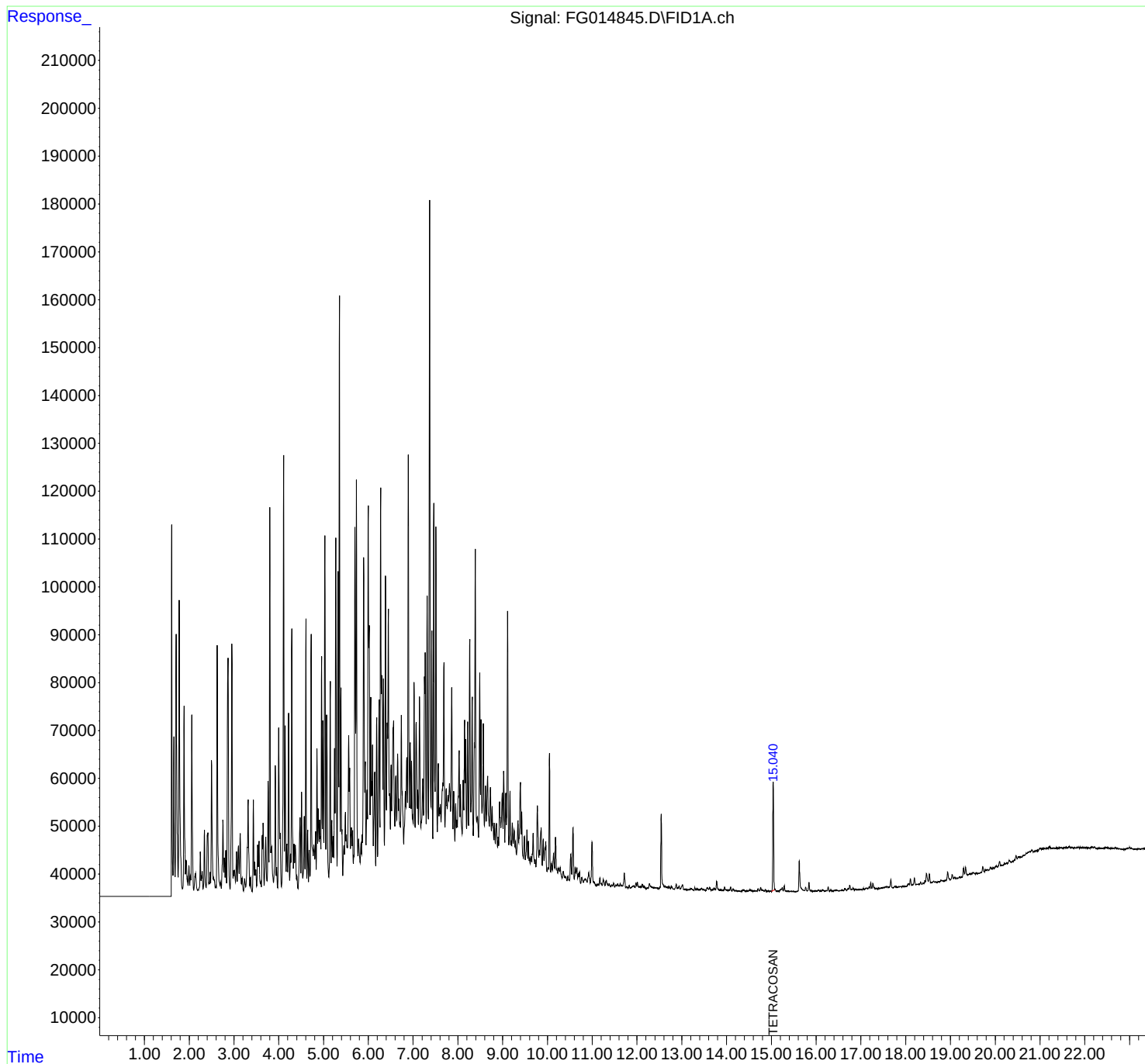
(m)=manual int.

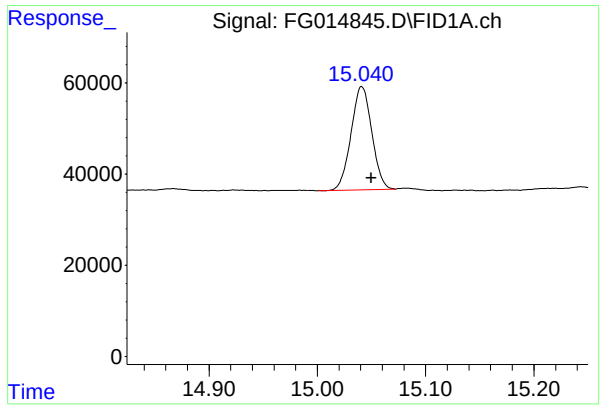
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014845.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 12:00
Operator : YP\AJ
Sample : P4839-13 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-21

Integration File: autoint1.e
Quant Time: Nov 19 01:30:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.041 min
Delta R.T.: -0.009 min
Response: 300914
Conc: 2.68 ug/ml

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-21

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014845.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 12:00
Sample : P4839-13 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.477	4.420	4.493	BV	14380	244198	11.41%	0.343%
2	4.510	4.493	4.536	VV	19721	238404	11.14%	0.335%
3	4.570	4.536	4.588	VV	14644	205400	9.60%	0.288%
4	4.606	4.588	4.627	VV	55868	548161	25.62%	0.770%
5	4.645	4.627	4.664	VV	11829	137067	6.41%	0.192%
6	4.679	4.664	4.700	VV	7599	85814	4.01%	0.121%
7	4.724	4.700	4.770	VV	52659	690166	32.26%	0.969%
8	4.783	4.770	4.805	VV	8681	157363	7.36%	0.221%
9	4.822	4.805	4.837	VV	11536	152820	7.14%	0.215%
10	4.854	4.837	4.868	VV	28730	308773	14.43%	0.434%
11	4.879	4.868	4.900	VV	16238	240211	11.23%	0.337%
12	4.914	4.900	4.927	VV	13940	195650	9.15%	0.275%
13	4.932	4.927	4.940	VV	10439	76742	3.59%	0.108%
14	4.957	4.940	4.973	VV	48068	519129	24.27%	0.729%
15	4.987	4.973	5.006	VV	34732	427856	20.00%	0.601%
16	5.030	5.006	5.053	VV	73380	1027941	48.05%	1.443%
17	5.070	5.053	5.117	VV	35839	611209	28.57%	0.858%
18	5.150	5.117	5.169	VV	42910	491884	22.99%	0.691%
19	5.184	5.169	5.202	VV	13893	192331	8.99%	0.270%
20	5.214	5.202	5.227	VV	10538	123103	5.75%	0.173%
21	5.246	5.227	5.257	VV	28863	328797	15.37%	0.462%
22	5.274	5.257	5.303	VV	72820	1001229	46.80%	1.406%
23	5.324	5.303	5.339	VV	65929	761139	35.58%	1.069%
24	5.355	5.339	5.373	VV	123350	1287888	60.20%	1.809%
25	5.389	5.373	5.406	VV	41546	483735	22.61%	0.679%
26	5.411	5.406	5.429	VV	12006	112599	5.26%	0.158%
27	5.456	5.429	5.467	VV	8691	144610	6.76%	0.203%
28	5.488	5.467	5.502	VV	15644	242915	11.35%	0.341%
29	5.510	5.502	5.523	VV	10938	123914	5.79%	0.174%
30	5.529	5.523	5.535	VV	8601	62414	2.92%	0.088%
31	5.562	5.535	5.575	VV	31641	471763	22.05%	0.662%
32	5.584	5.575	5.602	VV	24888	289822	13.55%	0.407%
33	5.625	5.602	5.638	VV	12417	229028	10.71%	0.322%
34	5.649	5.638	5.665	VV	11785	142970	6.68%	0.201%
35	5.701	5.665	5.719	VV	75152	999673	46.73%	1.404%
36	5.735	5.719	5.768	VV	85016	1071686	50.09%	1.505%

rteres								
37	5.783	5.768	5.818	VV	10068	223821	10.46%	0.314%
38	5.836	5.818	5.847	VV	9173	132566	6.20%	0.186%
39	5.860	5.847	5.869	VV	10932	123027	5.75%	0.173%
40	5.897	5.869	5.922	VV	68839	1114700	52.10%	1.565%
41	5.931	5.922	5.948	VV	26220	297414	13.90%	0.418%
42	5.971	5.948	5.981	VV	20349	298957	13.97%	0.420%
43	5.998	5.981	6.012	VV	79686	956403	44.71%	1.343%
44	6.020	6.012	6.040	VV	54664	671388	31.38%	0.943%
45	6.055	6.040	6.068	VV	39663	459777	21.49%	0.646%
46	6.076	6.068	6.084	VV	22100	191607	8.96%	0.269%
47	6.095	6.084	6.112	VV	29767	348963	16.31%	0.490%
48	6.142	6.112	6.165	VV	24088	482171	22.54%	0.677%
49	6.187	6.165	6.208	VV	35493	490266	22.92%	0.688%
50	6.241	6.208	6.258	VV	39169	665872	31.13%	0.935%
51	6.276	6.258	6.292	VV	83285	1026852	48.00%	1.442%
52	6.303	6.292	6.327	VV	44312	779466	36.43%	1.095%
53	6.340	6.327	6.359	VV	43585	521262	24.37%	0.732%
54	6.385	6.359	6.404	VV	65100	889194	41.56%	1.249%
55	6.423	6.404	6.433	VV	34344	489997	22.90%	0.688%
56	6.448	6.433	6.473	VV	58121	868417	40.59%	1.219%
57	6.478	6.473	6.494	VV	19652	214162	10.01%	0.301%
58	6.509	6.494	6.521	VV	25668	316609	14.80%	0.445%
59	6.551	6.521	6.556	VV	33464	526981	24.63%	0.740%
60	6.564	6.556	6.593	VV	34870	516856	24.16%	0.726%
61	6.613	6.593	6.634	VV	23332	437096	20.43%	0.614%
62	6.656	6.634	6.675	VV	27931	516147	24.13%	0.725%
63	6.685	6.675	6.702	VV	18539	258320	12.07%	0.363%
64	6.710	6.702	6.719	VV	13693	136115	6.36%	0.191%
65	6.739	6.719	6.790	VV	36048	832908	38.93%	1.170%
66	6.827	6.790	6.840	VV	20141	446310	20.86%	0.627%
67	6.861	6.840	6.875	VV	27233	485500	22.69%	0.682%
68	6.894	6.875	6.918	VV	90422	1204001	56.28%	1.691%
69	6.934	6.918	6.955	VV	30277	525279	24.55%	0.738%
70	6.967	6.955	7.003	VV	26485	515192	24.08%	0.723%
71	7.023	7.003	7.045	VV	42973	629119	29.41%	0.883%
72	7.068	7.045	7.095	VV	34582	732531	34.24%	1.029%
73	7.105	7.095	7.119	VV	20417	246575	11.53%	0.346%
74	7.145	7.119	7.173	VV	39892	775639	36.26%	1.089%
75	7.215	7.173	7.233	VV	22837	600769	28.08%	0.844%
76	7.256	7.233	7.263	VV	44151	539034	25.20%	0.757%
77	7.272	7.263	7.293	VV	49169	622041	29.08%	0.874%
78	7.315	7.293	7.341	VV	61023	947296	44.28%	1.330%
79	7.370	7.341	7.400	VV	143696	2139338	100.00%	3.004%
80	7.419	7.400	7.440	VV	53714	726686	33.97%	1.020%
81	7.463	7.440	7.492	VV	80358	1183919	55.34%	1.663%
82	7.510	7.492	7.542	VV	75413	1100089	51.42%	1.545%
83	7.563	7.542	7.579	VV	26029	414158	19.36%	0.582%
84	7.590	7.579	7.599	VV	16741	190668	8.91%	0.268%
85	7.609	7.599	7.625	VV	17551	254138	11.88%	0.357%
86	7.665	7.625	7.670	VV	22031	509274	23.81%	0.715%
87	7.688	7.670	7.713	VV	47098	724515	33.87%	1.017%
88	7.739	7.713	7.765	VV	20837	544115	25.43%	0.764%
89	7.778	7.765	7.790	VV	19497	270020	12.62%	0.379%

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90	7.813	7.790	7.838	VV	21923	565126	26.42%	0.794%
91	7.864	7.838	7.891	VV	41899	822680	38.45%	1.155%
92	7.909	7.891	7.933	VV	20270	396846	18.55%	0.557%
93	7.952	7.933	7.968	VV	17705	293351	13.71%	0.412%
94	7.979	7.968	7.990	VV	14261	181949	8.50%	0.256%
95	8.029	7.990	8.045	VV	28775	682984	31.92%	0.959%
96	8.059	8.045	8.097	VV	21672	486038	22.72%	0.683%
97	8.119	8.097	8.133	VV	22640	372192	17.40%	0.523%
98	8.150	8.133	8.164	VV	35095	498788	23.32%	0.700%
99	8.175	8.164	8.197	VV	31139	432939	20.24%	0.608%
100	8.217	8.197	8.238	VV	34768	535753	25.04%	0.752%
101	8.265	8.238	8.290	VV	52000	917437	42.88%	1.288%
102	8.321	8.290	8.343	VV	40036	725633	33.92%	1.019%
103	8.369	8.343	8.373	VV	30419	356056	16.64%	0.500%
104	8.390	8.373	8.423	VV	70930	1080281	50.50%	1.517%
105	8.440	8.423	8.463	VV	14986	326224	15.25%	0.458%
106	8.490	8.463	8.505	VV	45038	686958	32.11%	0.965%
107	8.517	8.505	8.541	VV	35286	517539	24.19%	0.727%
108	8.570	8.541	8.593	VV	34526	675667	31.58%	0.949%
109	8.618	8.593	8.635	VV	21490	430636	20.13%	0.605%
110	8.665	8.635	8.703	VV	23523	721042	33.70%	1.013%
111	8.729	8.703	8.749	VV	21128	457699	21.39%	0.643%
112	8.766	8.749	8.781	VV	17193	276745	12.94%	0.389%
113	8.787	8.781	8.804	VV	13734	169247	7.91%	0.238%
114	8.819	8.804	8.836	VV	13666	224354	10.49%	0.315%
115	8.862	8.836	8.887	VV	13694	353876	16.54%	0.497%
116	8.902	8.887	8.913	VV	10865	153100	7.16%	0.215%
117	8.932	8.913	8.960	VV	18209	405523	18.96%	0.569%
118	8.993	8.960	9.008	VV	20021	466191	21.79%	0.655%
119	9.024	9.008	9.049	VV	24583	428496	20.03%	0.602%
120	9.068	9.049	9.084	VV	19981	318170	14.87%	0.447%
121	9.112	9.084	9.138	VV	57753	911218	42.59%	1.280%
122	9.165	9.138	9.182	VV	20492	358384	16.75%	0.503%
123	9.191	9.182	9.201	VV	10107	108846	5.09%	0.153%
124	9.217	9.201	9.238	VV	13831	247413	11.56%	0.347%
125	9.257	9.238	9.276	VV	12296	244440	11.43%	0.343%
126	9.287	9.276	9.310	VV	9962	179210	8.38%	0.252%
127	9.342	9.310	9.359	VV	14300	308766	14.43%	0.434%
128	9.397	9.359	9.415	VV	22345	513619	24.01%	0.721%
129	9.428	9.415	9.464	VV	16177	300458	14.04%	0.422%
130	9.485	9.464	9.507	VV	11011	218990	10.24%	0.308%
131	9.544	9.507	9.563	VV	12419	289882	13.55%	0.407%
132	9.577	9.563	9.593	VV	10001	144001	6.73%	0.202%
133	9.602	9.593	9.615	VV	6462	78336	3.66%	0.110%
134	9.635	9.615	9.648	VV	6749	124402	5.81%	0.175%
135	9.682	9.648	9.716	VV	11731	312153	14.59%	0.438%
136	9.727	9.716	9.744	VV	6229	91843	4.29%	0.129%
137	9.776	9.744	9.808	VV	17454	403251	18.85%	0.566%
138	9.820	9.808	9.830	VV	8136	99426	4.65%	0.140%
139	9.861	9.830	9.884	VV	12920	315599	14.75%	0.443%
140	9.908	9.884	9.926	VV	10545	193871	9.06%	0.272%
141	9.945	9.926	9.950	VV	8645	111376	5.21%	0.156%

					rteres			
142	9.961	9.950	9.991	VV	9959	172775	8.08%	0.243%
143	10.010	9.991	10.024	VV	4553	83026	3.88%	0.117%
144	10.045	10.024	10.073	VV	28478	364461	17.04%	0.512%
145	10.092	10.073	10.113	VV	5434	110856	5.18%	0.156%
146	10.139	10.113	10.162	VV	7507	170810	7.98%	0.240%
147	10.182	10.162	10.205	VV	10946	179906	8.41%	0.253%
148	10.211	10.205	10.233	VV	4320	65521	3.06%	0.092%
149	10.247	10.233	10.271	VV	4507	93966	4.39%	0.132%
150	10.288	10.271	10.325	VV	4636	113983	5.33%	0.160%
151	10.354	10.325	10.384	VV	3802	108887	5.09%	0.153%
152	10.394	10.384	10.405	VV	2804	32912	1.54%	0.046%
153	10.413	10.405	10.440	VV	2664	47631	2.23%	0.067%
154	10.456	10.440	10.490	VV	2836	69117	3.23%	0.097%
155	10.521	10.490	10.544	VV	7459	145974	6.82%	0.205%
156	10.571	10.544	10.599	VV	12971	227556	10.64%	0.320%
157	10.622	10.599	10.637	VV	4624	80028	3.74%	0.112%
158	10.655	10.637	10.676	VV	4545	90750	4.24%	0.127%
159	10.691	10.676	10.703	VV	3381	46729	2.18%	0.066%
160	10.717	10.703	10.743	VV	3742	62418	2.92%	0.088%
161	10.766	10.743	10.802	VV	2608	71063	3.32%	0.100%
162	10.833	10.802	10.839	VV	2269	42311	1.98%	0.059%
163	10.848	10.839	10.887	VV	2281	58751	2.75%	0.083%
164	10.922	10.887	10.958	VV	3661	106728	4.99%	0.150%
165	10.996	10.958	11.032	VV	10004	192017	8.98%	0.270%
166	11.041	11.032	11.091	VV	1745	45207	2.11%	0.063%
167	11.113	11.091	11.128	VV	1188	24078	1.13%	0.034%
168	11.136	11.128	11.149	VV	1238	14342	0.67%	0.020%
169	11.171	11.149	11.190	VV	2560	42715	2.00%	0.060%
170	11.200	11.190	11.224	VV	1382	24920	1.16%	0.035%
171	11.248	11.224	11.285	VV	2227	56798	2.65%	0.080%
172	11.316	11.285	11.358	VV	2105	62872	2.94%	0.088%
173	11.379	11.358	11.411	VV	1364	32871	1.54%	0.046%
174	11.434	11.411	11.455	VV	1132	24622	1.15%	0.035%
175	11.480	11.455	11.504	VV	1489	31654	1.48%	0.044%
176	11.533	11.504	11.545	VV	1104	23190	1.08%	0.033%
177	11.567	11.545	11.586	VV	1377	27504	1.29%	0.039%
178	11.598	11.586	11.608	VV	945	11747	0.55%	0.016%
179	11.626	11.608	11.641	VV	1489	22903	1.07%	0.032%
180	11.654	11.641	11.677	VV	1065	20858	0.97%	0.029%
181	11.718	11.677	11.753	VV	3596	79277	3.71%	0.111%
182	11.769	11.753	11.806	VV	791	20391	0.95%	0.029%
183	11.826	11.806	11.849	VV	1070	19209	0.90%	0.027%
184	11.870	11.849	11.877	VV	680	9720	0.45%	0.014%
185	11.890	11.877	11.901	VV	799	10768	0.50%	0.015%
186	11.920	11.901	11.960	VV	992	29434	1.38%	0.041%
187	11.977	11.960	11.992	VV	1614	22665	1.06%	0.032%
188	12.008	11.992	12.050	VV	1738	37134	1.74%	0.052%
189	12.069	12.050	12.093	VV	926	19546	0.91%	0.027%
190	12.121	12.093	12.141	VV	1307	27792	1.30%	0.039%
191	12.156	12.141	12.209	VV	1012	27270	1.27%	0.038%
192	12.235	12.209	12.249	VV	588	11753	0.55%	0.017%
193	12.281	12.249	12.303	VV	1504	32592	1.52%	0.046%
194	12.311	12.303	12.333	VV	909	13701	0.64%	0.019%

					rteres			
195	12.346	12.333	12.364	VV	788	12439	0.58%	0.017%
196	12.384	12.364	12.391	VV	717	9978	0.47%	0.014%
197	12.399	12.391	12.415	VV	696	8944	0.42%	0.013%
198	12.418	12.415	12.440	VV	649	9206	0.43%	0.013%
199	12.449	12.440	12.472	VV	646	10326	0.48%	0.014%
200	12.481	12.472	12.487	VV	525	4301	0.20%	0.006%
201	12.541	12.487	12.613	VV	16046	239572	11.20%	0.336%
202	12.627	12.613	12.641	VV	1058	15078	0.70%	0.021%
203	12.656	12.641	12.696	VV	875	24067	1.12%	0.034%
204	12.720	12.696	12.747	VV	912	21407	1.00%	0.030%
205	12.767	12.747	12.837	VV	1099	31735	1.48%	0.045%
206	12.877	12.837	12.899	VV	1431	30239	1.41%	0.042%
207	12.913	12.899	12.926	VV	703	10235	0.48%	0.014%
208	12.940	12.926	12.966	VV	1060	17909	0.84%	0.025%
209	13.017	12.966	13.051	VV	1331	37991	1.78%	0.053%
210	13.060	13.051	13.069	VV	382	3800	0.18%	0.005%
211	13.075	13.069	13.082	VV	372	2654	0.12%	0.004%
212	13.089	13.082	13.105	VV	441	4621	0.22%	0.006%
213	13.123	13.105	13.135	VV	355	4923	0.23%	0.007%
214	13.159	13.135	13.165	VV	329	4848	0.23%	0.007%
215	13.187	13.165	13.201	VV	466	8393	0.39%	0.012%
216	13.216	13.201	13.273	VV	532	15542	0.73%	0.022%
217	13.293	13.273	13.315	VV	789	11404	0.53%	0.016%
218	13.340	13.315	13.374	VV	507	13759	0.64%	0.019%
219	13.390	13.374	13.411	VV	442	7347	0.34%	0.010%
220	13.439	13.411	13.475	VV	639	17295	0.81%	0.024%
221	13.496	13.475	13.526	VV	381	8458	0.40%	0.012%
222	13.569	13.526	13.603	VV	803	22231	1.04%	0.031%
223	13.624	13.603	13.643	VV	862	14786	0.69%	0.021%
224	13.648	13.643	13.663	VV	441	4220	0.20%	0.006%
225	13.666	13.663	13.674	VV	340	2020	0.09%	0.003%
226	13.687	13.674	13.693	VV	428	3957	0.18%	0.006%
227	13.694	13.693	13.705	VV	426	2527	0.12%	0.004%
228	13.729	13.705	13.758	VV	681	15043	0.70%	0.021%
229	13.779	13.758	13.818	VV	2107	37625	1.76%	0.053%
230	13.823	13.818	13.861	VV	461	8745	0.41%	0.012%
231	13.879	13.861	13.916	VV	417	9665	0.45%	0.014%
232	13.925	13.916	13.937	VV	260	2999	0.14%	0.004%
233	13.957	13.937	13.981	VV	932	14854	0.69%	0.021%
234	13.984	13.981	14.012	VV	396	6349	0.30%	0.009%
235	14.022	14.012	14.028	VV	331	2781	0.13%	0.004%
236	14.033	14.028	14.048	VV	271	2844	0.13%	0.004%
237	14.056	14.048	14.063	VV	316	2550	0.12%	0.004%
238	14.090	14.063	14.120	VV	953	16283	0.76%	0.023%
239	14.144	14.120	14.185	VV	623	13373	0.63%	0.019%
240	14.198	14.185	14.220	VV	304	3911	0.18%	0.005%
241	14.227	14.220	14.231	VV	242	1274	0.06%	0.002%
242	14.236	14.231	14.251	VV	238	2202	0.10%	0.003%
243	14.257	14.251	14.263	VV	177	1097	0.05%	0.002%
244	14.270	14.263	14.279	VV	175	1220	0.06%	0.002%
245	14.292	14.279	14.312	VV	153	1959	0.09%	0.003%
246	14.328	14.312	14.332	PV	100	794	0.04%	0.001%

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247	14.352	14.332	14.356	VV	252	2278	0.11%	0.003%
248	14.381	14.356	14.430	VV	428	10887	0.51%	0.015%
249	14.434	14.430	14.459	VV	191	2180	0.10%	0.003%
250	14.470	14.459	14.478	VV	130	1368	0.06%	0.002%
251	14.504	14.478	14.508	VV	315	3749	0.18%	0.005%
252	14.511	14.508	14.518	VV	281	1385	0.06%	0.002%
253	14.528	14.518	14.568	VV	470	9244	0.43%	0.013%
254	14.574	14.568	14.596	VV	259	3119	0.15%	0.004%
255	14.609	14.596	14.617	VV	231	2398	0.11%	0.003%
256	14.623	14.617	14.635	VV	188	1638	0.08%	0.002%
257	14.650	14.635	14.681	VV	238	4691	0.22%	0.007%
258	14.703	14.681	14.729	VV	623	10604	0.50%	0.015%
259	14.737	14.729	14.741	VV	268	1666	0.08%	0.002%
260	14.762	14.741	14.792	VV	892	15364	0.72%	0.022%
261	14.804	14.792	14.814	VV	355	3590	0.17%	0.005%
262	14.820	14.814	14.841	VV	239	3331	0.16%	0.005%
263	14.845	14.841	14.849	VV	224	972	0.05%	0.001%
264	14.867	14.849	14.899	VV	489	7688	0.36%	0.011%
265	14.904	14.899	14.909	VV	114	404	0.02%	0.001%
266	14.923	14.909	14.963	VV	204	3283	0.15%	0.005%
267	14.967	14.963	14.971	VV	107	421	0.02%	0.001%
268	14.984	14.971	15.006	VV	145	1954	0.09%	0.003%
269	15.041	15.006	15.072	VV	22861	310523	14.51%	0.436%
270	15.083	15.072	15.115	VV	609	8492	0.40%	0.012%
271	15.127	15.115	15.133	VV	147	1268	0.06%	0.002%
272	15.141	15.133	15.154	VV	139	1270	0.06%	0.002%
273	15.162	15.154	15.166	VV	161	653	0.03%	0.001%
274	15.178	15.166	15.188	VV	208	1960	0.09%	0.003%
275	15.219	15.188	15.225	VV	557	9494	0.44%	0.013%
276	15.243	15.225	15.267	VV	915	14985	0.70%	0.021%
277	15.288	15.267	15.321	VV	1251	17429	0.81%	0.024%
278	15.326	15.321	15.336	VV	157	1159	0.05%	0.002%
279	15.347	15.336	15.358	VV	157	1781	0.08%	0.003%
280	15.367	15.358	15.373	VV	149	1109	0.05%	0.002%
281	15.385	15.373	15.408	VV	161	1867	0.09%	0.003%
282	15.432	15.408	15.453	VV	111	1508	0.07%	0.002%
283	15.455	15.453	15.461	VV	98	199	0.01%	0.000%
284	15.465	15.461	15.473	VV	49	194	0.01%	0.000%
285	15.483	15.473	15.490	VV	104	727	0.03%	0.001%
286	15.498	15.490	15.521	VV	109	1149	0.05%	0.002%
287	15.528	15.521	15.541	VV	70	605	0.03%	0.001%
288	15.546	15.541	15.551	VV	43	191	0.01%	0.000%
289	15.577	15.551	15.584	PV	119	1103	0.05%	0.002%
290	15.624	15.584	15.711	VV	6439	118851	5.56%	0.167%
291	15.716	15.711	15.731	VV	328	3049	0.14%	0.004%
292	15.736	15.731	15.741	VV	204	1056	0.05%	0.001%
293	15.766	15.741	15.802	VV	895	15419	0.72%	0.022%
294	15.839	15.802	15.876	VV	1911	29078	1.36%	0.041%
295	15.885	15.876	15.890	VV	245	1392	0.07%	0.002%
296	15.893	15.890	15.917	VV	185	1810	0.08%	0.003%
297	15.931	15.917	15.946	VV	83	860	0.04%	0.001%
298	15.951	15.946	15.958	VV	77	372	0.02%	0.001%
299	15.972	15.958	15.977	VV	99	539	0.03%	0.001%

					rters				
300	15.998	15.977	16.025	VV	126	2258	0.11%	0.003%	
301	16.050	16.025	16.080	VV	273	5512	0.26%	0.008%	
302	16.084	16.080	16.101	VV	141	1151	0.05%	0.002%	
303	16.104	16.101	16.119	VV	94	826	0.04%	0.001%	
304	16.144	16.119	16.181	VV	260	6282	0.29%	0.009%	
305	16.186	16.181	16.191	VV	130	568	0.03%	0.001%	
306	16.197	16.191	16.202	VV	112	585	0.03%	0.001%	
307	16.207	16.202	16.216	VV	147	818	0.04%	0.001%	
308	16.231	16.216	16.239	VV	173	1592	0.07%	0.002%	
309	16.268	16.239	16.299	VV	907	13456	0.63%	0.019%	
310	16.329	16.299	16.388	VV	231	4943	0.23%	0.007%	
311	16.392	16.388	16.394	PV	48	127	0.01%	0.000%	
312	16.412	16.394	16.432	VV	198	2874	0.13%	0.004%	
313	16.455	16.432	16.486	VV	227	4071	0.19%	0.006%	
314	16.495	16.486	16.522	VV	85	1102	0.05%	0.002%	
315	16.528	16.522	16.533	VV	64	289	0.01%	0.000%	
316	16.537	16.533	16.540	PV	70	176	0.01%	0.000%	
317	16.560	16.540	16.579	VV	200	2771	0.13%	0.004%	
318	16.596	16.579	16.605	VV	109	1004	0.05%	0.001%	
319	16.639	16.605	16.684	PV	480	10645	0.50%	0.015%	
320	16.718	16.684	16.727	VV	419	6683	0.31%	0.009%	
321	16.749	16.727	16.780	VV	1132	17425	0.81%	0.024%	
322	16.828	16.780	16.854	VV	464	10426	0.49%	0.015%	
323	16.873	16.854	16.883	VV	183	1914	0.09%	0.003%	
324	16.887	16.883	16.893	VV	160	783	0.04%	0.001%	
325	16.901	16.893	16.932	VV	162	2193	0.10%	0.003%	
326	16.944	16.932	16.963	VV	121	1380	0.06%	0.002%	
327	16.974	16.963	16.978	VV	74	417	0.02%	0.001%	
328	16.986	16.978	16.997	VV	98	717	0.03%	0.001%	
329	17.005	16.997	17.010	VV	80	366	0.02%	0.001%	
330	17.015	17.010	17.019	VV	81	224	0.01%	0.000%	
331	17.031	17.019	17.037	PV	112	716	0.03%	0.001%	
332	17.052	17.037	17.065	VV	284	2156	0.10%	0.003%	
333	17.115	17.065	17.149	VV	316	8390	0.39%	0.012%	
334	17.156	17.149	17.160	VV	191	908	0.04%	0.001%	
335	17.183	17.160	17.196	VV	522	7698	0.36%	0.011%	
336	17.218	17.196	17.242	VV	1386	19571	0.91%	0.027%	
337	17.268	17.242	17.339	VV	1185	22228	1.04%	0.031%	
338	17.346	17.339	17.351	PBA	61	-11	-0.00%	-0.000%	
				Sum of corrected areas:		71211961			

FG111324.M Tue Nov 19 02:30:35 2024

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-10-TPH-1		SDG No.:	P4839	
Lab Sample ID:	P4839-14		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	84.9	Decanted:
Sample Wt/Vol:	30.06	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	Diesel Range Organics	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014825.D	1	11/14/24 13:15	11/16/24 14:50	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	7140		217	1960	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.3		37 - 130	51%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014825.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 14:50
Operator : YP\AJ
Sample : P4839-14
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-10-TPH-1

Integration File: autoint1.e
Quant Time: Nov 18 05:51:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.041	1150085	10.253 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

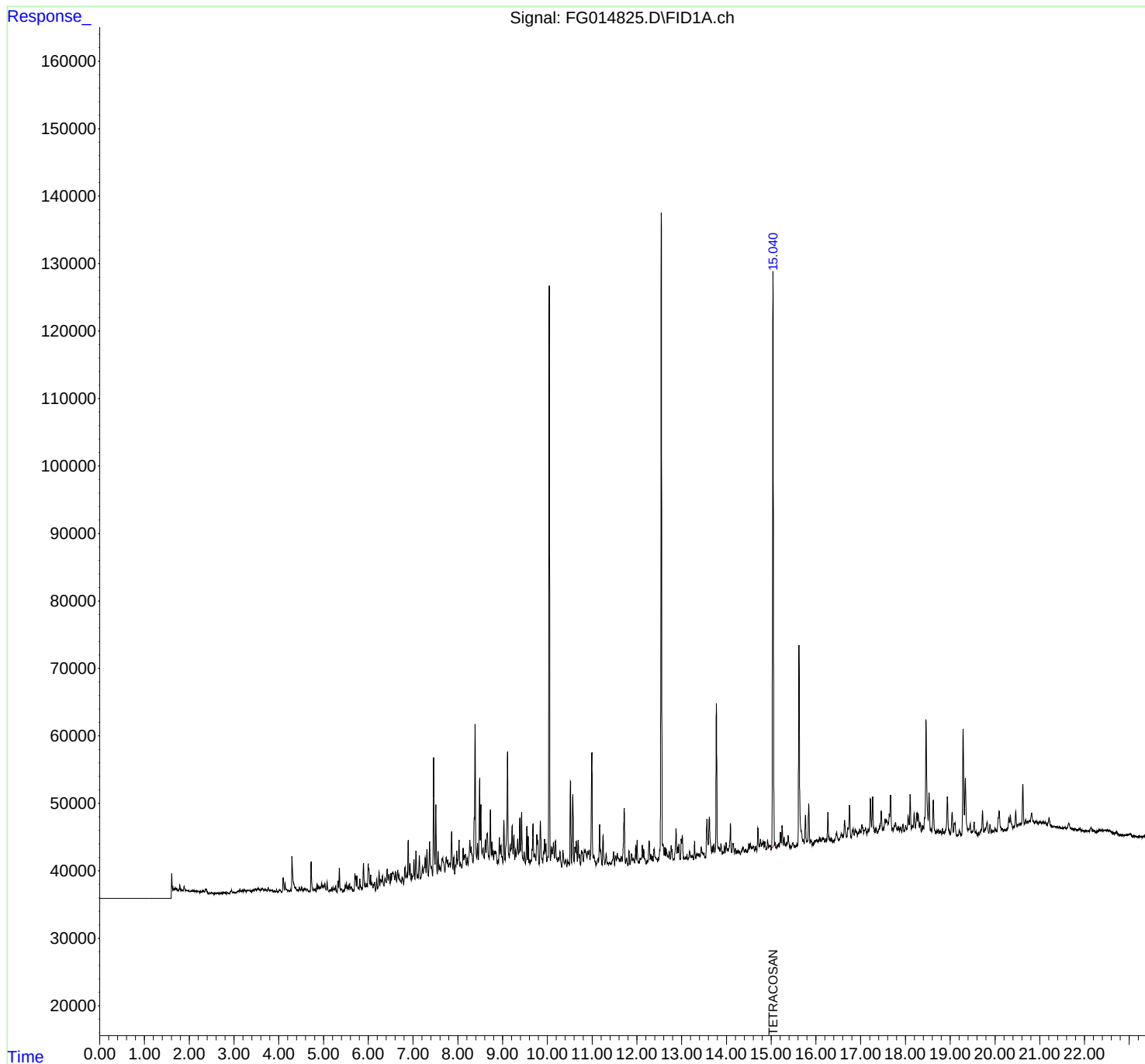
(m)=manual int.

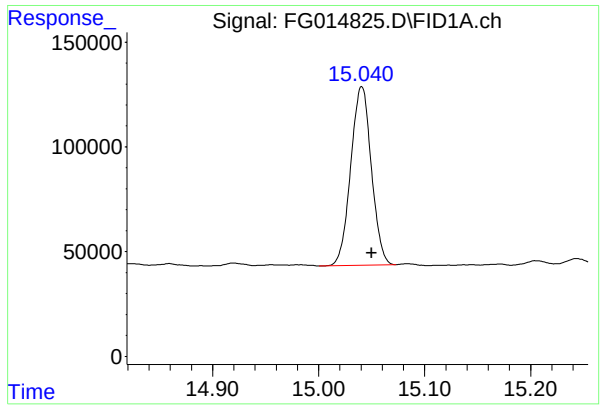
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014825.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 14:50
Operator : YP\AJ
Sample : P4839-14
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-10-TPH-1

Integration File: autoint1.e
Quant Time: Nov 18 05:51:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.041 min
Delta R.T.: -0.009 min
Response: 1150085
Conc: 10.25 ug/ml

Instrument :
FID_G
ClientSampleId :
EX-10-TPH-1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014825.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 14:50
Sample : P4839-14
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.783	4.768	4.802	VV	600	9324	0.76%	0.039%
2	4.819	4.802	4.837	VV	505	8044	0.66%	0.034%
3	4.853	4.837	4.867	VV	1213	13129	1.07%	0.055%
4	4.878	4.867	4.898	VV	1057	14850	1.22%	0.062%
5	4.915	4.898	4.928	VV	832	12848	1.05%	0.054%
6	4.931	4.928	4.942	VV	792	6481	0.53%	0.027%
7	4.958	4.942	4.976	VV	1471	20802	1.70%	0.087%
8	4.991	4.976	5.006	VV	1122	16537	1.35%	0.069%
9	5.032	5.006	5.059	VV	1400	27813	2.28%	0.116%
10	5.081	5.059	5.121	VV	1612	23563	1.93%	0.098%
11	5.150	5.121	5.163	VV	393	6984	0.57%	0.029%
12	5.184	5.163	5.200	VV	701	8816	0.72%	0.037%
13	5.214	5.200	5.237	VV	684	11066	0.91%	0.046%
14	5.250	5.237	5.256	VV	545	5411	0.44%	0.023%
15	5.273	5.256	5.297	VV	959	12617	1.03%	0.053%
16	5.327	5.297	5.339	PV	1725	18719	1.53%	0.078%
17	5.355	5.339	5.382	VV	3645	42514	3.48%	0.177%
18	5.394	5.382	5.402	VV	534	5359	0.44%	0.022%
19	5.408	5.402	5.427	VV	505	4690	0.38%	0.020%
20	5.455	5.427	5.466	PV	425	5575	0.46%	0.023%
21	5.487	5.466	5.500	VV	1034	13055	1.07%	0.054%
22	5.512	5.500	5.537	VV	1346	18492	1.51%	0.077%
23	5.551	5.537	5.565	VV	946	11682	0.96%	0.049%
24	5.582	5.565	5.600	VV	1253	16405	1.34%	0.068%
25	5.622	5.600	5.640	VV	743	14007	1.15%	0.058%
26	5.647	5.640	5.661	VV	417	3662	0.30%	0.015%
27	5.678	5.661	5.685	VV	271	2803	0.23%	0.012%
28	5.702	5.685	5.711	VV	2718	27021	2.21%	0.113%
29	5.720	5.711	5.733	VV	2336	23593	1.93%	0.098%
30	5.746	5.733	5.773	VV	2352	31008	2.54%	0.129%
31	5.782	5.773	5.796	VV	616	6880	0.56%	0.029%
32	5.812	5.796	5.850	VV	1893	28404	2.32%	0.118%
33	5.863	5.850	5.869	VV	422	4116	0.34%	0.017%
34	5.894	5.869	5.922	VV	4169	64064	5.24%	0.267%
35	5.933	5.922	5.948	VV	1118	12996	1.06%	0.054%
36	5.972	5.948	5.982	VV	1076	17041	1.39%	0.071%

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37	5.999	5.982	6.038	VV	4060	85445	6.99%	0.356%
38	6.054	6.038	6.067	VV	2388	27242	2.23%	0.113%
39	6.080	6.067	6.108	VV	1196	22621	1.85%	0.094%
40	6.121	6.108	6.128	VV	984	9485	0.78%	0.040%
41	6.140	6.128	6.164	VV	1290	15047	1.23%	0.063%
42	6.189	6.164	6.206	PV	1792	20612	1.69%	0.086%
43	6.242	6.206	6.260	VV	2784	41257	3.38%	0.172%
44	6.275	6.260	6.299	VV	1656	31746	2.60%	0.132%
45	6.315	6.299	6.352	VV	2136	42657	3.49%	0.178%
46	6.375	6.352	6.403	VV	1766	39705	3.25%	0.165%
47	6.425	6.403	6.445	VV	3121	55365	4.53%	0.231%
48	6.462	6.445	6.490	VV	2258	46349	3.79%	0.193%
49	6.507	6.490	6.519	VV	2440	30483	2.49%	0.127%
50	6.548	6.519	6.560	VV	2561	54489	4.46%	0.227%
51	6.562	6.560	6.590	VV	2378	36044	2.95%	0.150%
52	6.609	6.590	6.634	VV	2589	48070	3.93%	0.200%
53	6.658	6.634	6.673	VV	2757	48657	3.98%	0.203%
54	6.683	6.673	6.700	VV	2075	28516	2.33%	0.119%
55	6.707	6.700	6.726	VV	1489	20045	1.64%	0.083%
56	6.730	6.726	6.741	VV	1147	9071	0.74%	0.038%
57	6.757	6.741	6.790	VV	1786	37506	3.07%	0.156%
58	6.820	6.790	6.840	VV	3159	57298	4.69%	0.239%
59	6.865	6.840	6.875	VV	2272	38104	3.12%	0.159%
60	6.892	6.875	6.917	VV	7116	101123	8.27%	0.421%
61	6.933	6.917	6.954	VV	3670	58573	4.79%	0.244%
62	6.966	6.954	6.979	VV	2137	25337	2.07%	0.106%
63	7.022	6.979	7.043	VV	4176	84935	6.95%	0.354%
64	7.067	7.043	7.093	VV	5454	93363	7.64%	0.389%
65	7.104	7.093	7.116	VV	1795	21507	1.76%	0.090%
66	7.142	7.116	7.165	VV	4667	82718	6.77%	0.345%
67	7.211	7.165	7.228	VV	3066	76208	6.24%	0.317%
68	7.273	7.228	7.292	VV	4337	115312	9.44%	0.480%
69	7.311	7.292	7.342	VV	5517	100759	8.24%	0.420%
70	7.371	7.342	7.402	VV	6626	132873	10.87%	0.553%
71	7.409	7.402	7.438	VV	2931	52918	4.33%	0.220%
72	7.461	7.438	7.492	VV	19030	263263	21.54%	1.097%
73	7.510	7.492	7.541	VV	12069	179311	14.67%	0.747%
74	7.561	7.541	7.578	VV	5116	77656	6.35%	0.323%
75	7.587	7.578	7.600	VV	2893	34642	2.83%	0.144%
76	7.609	7.600	7.622	VV	2640	31949	2.61%	0.133%
77	7.650	7.622	7.657	VV	3921	66091	5.41%	0.275%
78	7.664	7.657	7.713	VV	4043	107459	8.79%	0.448%
79	7.741	7.713	7.764	VV	4131	98780	8.08%	0.411%
80	7.776	7.764	7.792	VV	3734	56193	4.60%	0.234%
81	7.814	7.792	7.818	VV	3215	46770	3.83%	0.195%
82	7.823	7.818	7.837	VV	3230	33273	2.72%	0.139%
83	7.863	7.837	7.891	VV	7872	153638	12.57%	0.640%
84	7.912	7.891	7.932	VV	4077	71574	5.86%	0.298%
85	7.951	7.932	7.960	VV	2894	40343	3.30%	0.168%
86	7.977	7.960	7.992	VV	4927	73533	6.02%	0.306%
87	8.029	7.992	8.046	VV	6497	137748	11.27%	0.574%
88	8.057	8.046	8.087	VV	3157	69246	5.67%	0.288%
89	8.121	8.087	8.135	VV	5300	104574	8.56%	0.436%

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90	8.148	8.135	8.161	VV	4217	61439	5.03%	0.256%
91	8.170	8.161	8.193	VV	4384	70049	5.73%	0.292%
92	8.210	8.193	8.230	VV	3789	69579	5.69%	0.290%
93	8.270	8.230	8.288	VV	6379	160613	13.14%	0.669%
94	8.300	8.288	8.313	VV	5303	70280	5.75%	0.293%
95	8.319	8.313	8.340	VV	4367	60956	4.99%	0.254%
96	8.388	8.340	8.423	VV	23498	452587	37.03%	1.885%
97	8.442	8.423	8.462	VV	5798	106040	8.68%	0.442%
98	8.489	8.462	8.504	VV	15476	229301	18.76%	0.955%
99	8.516	8.504	8.543	VV	11515	172125	14.08%	0.717%
100	8.566	8.543	8.591	VV	5089	128326	10.50%	0.535%
101	8.617	8.591	8.631	VV	6252	121480	9.94%	0.506%
102	8.661	8.631	8.701	VV	7189	226045	18.50%	0.942%
103	8.730	8.701	8.750	VV	10666	182440	14.93%	0.760%
104	8.764	8.750	8.778	VV	5871	83521	6.83%	0.348%
105	8.788	8.778	8.803	VV	4486	58784	4.81%	0.245%
106	8.818	8.803	8.832	VV	4472	69896	5.72%	0.291%
107	8.843	8.832	8.886	VV	4365	119651	9.79%	0.498%
108	8.900	8.886	8.911	VV	3069	44166	3.61%	0.184%
109	8.930	8.911	8.946	VV	6418	97528	7.98%	0.406%
110	8.966	8.946	8.983	VV	5243	98191	8.03%	0.409%
111	8.991	8.983	9.009	VV	3584	50222	4.11%	0.209%
112	9.031	9.009	9.055	VV	8911	149948	12.27%	0.625%
113	9.112	9.055	9.153	VV	19001	422920	34.60%	1.762%
114	9.171	9.153	9.183	VV	5242	77543	6.34%	0.323%
115	9.215	9.183	9.235	VV	7999	173871	14.23%	0.724%
116	9.254	9.235	9.275	VV	6525	118641	9.71%	0.494%
117	9.289	9.275	9.303	VV	4440	63277	5.18%	0.264%
118	9.340	9.303	9.355	VV	5999	143621	11.75%	0.598%
119	9.386	9.355	9.405	VV	9081	165711	13.56%	0.690%
120	9.427	9.405	9.466	VV	9897	189064	15.47%	0.788%
121	9.484	9.466	9.511	VV	4007	84645	6.93%	0.353%
122	9.543	9.511	9.560	VV	7770	130597	10.69%	0.544%
123	9.574	9.560	9.591	VV	6240	78083	6.39%	0.325%
124	9.601	9.591	9.614	VV	2824	35208	2.88%	0.147%
125	9.632	9.614	9.642	VV	2672	40778	3.34%	0.170%
126	9.661	9.642	9.665	VV	4254	49003	4.01%	0.204%
127	9.681	9.665	9.699	VV	8013	111121	9.09%	0.463%
128	9.704	9.699	9.713	VV	3245	25339	2.07%	0.106%
129	9.723	9.713	9.745	VV	3478	60292	4.93%	0.251%
130	9.767	9.745	9.782	VV	6438	104623	8.56%	0.436%
131	9.790	9.782	9.816	VV	5325	77476	6.34%	0.323%
132	9.846	9.816	9.878	VV	8384	171660	14.05%	0.715%
133	9.884	9.878	9.901	VV	2751	35082	2.87%	0.146%
134	9.918	9.901	9.925	VV	3647	45293	3.71%	0.189%
135	9.940	9.925	9.957	VV	5618	89916	7.36%	0.375%
136	9.970	9.957	9.989	VV	4903	73163	5.99%	0.305%
137	10.013	9.989	10.019	VV	3039	48646	3.98%	0.203%
138	10.044	10.019	10.072	VV	87723	946448	77.44%	3.942%
139	10.091	10.072	10.111	VV	4375	84458	6.91%	0.352%
140	10.137	10.111	10.161	VV	4993	118094	9.66%	0.492%
141	10.182	10.161	10.229	VV	5252	141606	11.59%	0.590%

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142	10.246	10.229	10.264	VV	2728	52433	4.29%	0.218%
143	10.284	10.264	10.323	VV	3605	86033	7.04%	0.358%
144	10.350	10.323	10.381	VV	3757	84739	6.93%	0.353%
145	10.414	10.381	10.437	VV	2284	64167	5.25%	0.267%
146	10.456	10.437	10.471	VV	2242	37426	3.06%	0.156%
147	10.478	10.471	10.491	VV	1910	19965	1.63%	0.083%
148	10.517	10.491	10.542	VV	13863	193956	15.87%	0.808%
149	10.570	10.542	10.597	VV	11956	198715	16.26%	0.828%
150	10.618	10.597	10.630	VV	4100	61730	5.05%	0.257%
151	10.647	10.630	10.672	VV	4967	93484	7.65%	0.389%
152	10.689	10.672	10.708	VV	5073	75579	6.18%	0.315%
153	10.718	10.708	10.741	VV	2956	45327	3.71%	0.189%
154	10.765	10.741	10.775	VV	3551	53058	4.34%	0.221%
155	10.785	10.775	10.808	VV	3287	53654	4.39%	0.223%
156	10.829	10.808	10.839	VV	3531	52791	4.32%	0.220%
157	10.850	10.839	10.885	VV	3469	83752	6.85%	0.349%
158	10.900	10.885	10.916	VV	3303	55603	4.55%	0.232%
159	10.937	10.916	10.956	VV	3401	68034	5.57%	0.283%
160	10.995	10.956	11.028	VV	17891	306807	25.10%	1.278%
161	11.040	11.028	11.087	VV	2655	69526	5.69%	0.290%
162	11.134	11.087	11.145	VV	2117	57595	4.71%	0.240%
163	11.169	11.145	11.185	VV	7117	97811	8.00%	0.407%
164	11.192	11.185	11.224	VV	3364	54832	4.49%	0.228%
165	11.245	11.224	11.288	VV	5485	100583	8.23%	0.419%
166	11.315	11.288	11.338	VV	2726	56403	4.62%	0.235%
167	11.352	11.338	11.367	VV	1432	21471	1.76%	0.089%
168	11.389	11.367	11.423	VV	1428	41525	3.40%	0.173%
169	11.480	11.423	11.502	VV	2967	84847	6.94%	0.353%
170	11.528	11.502	11.545	VV	2266	47324	3.87%	0.197%
171	11.564	11.545	11.590	VV	2667	57391	4.70%	0.239%
172	11.594	11.590	11.612	VV	1920	23176	1.90%	0.097%
173	11.624	11.612	11.637	VV	1777	23964	1.96%	0.100%
174	11.649	11.637	11.676	VV	2112	42746	3.50%	0.178%
175	11.718	11.676	11.747	VV	9264	183336	15.00%	0.764%
176	11.770	11.747	11.804	VV	1809	43802	3.58%	0.182%
177	11.825	11.804	11.849	VV	2875	46180	3.78%	0.192%
178	11.881	11.849	11.900	VV	2388	52088	4.26%	0.217%
179	11.917	11.900	11.949	VV	1741	44210	3.62%	0.184%
180	11.974	11.949	11.989	VV	3592	54273	4.44%	0.226%
181	12.005	11.989	12.031	VV	4400	62667	5.13%	0.261%
182	12.039	12.031	12.053	VV	1146	14201	1.16%	0.059%
183	12.071	12.053	12.082	VV	1633	22886	1.87%	0.095%
184	12.092	12.082	12.098	VV	1558	15233	1.25%	0.063%
185	12.124	12.098	12.142	VV	3572	60185	4.92%	0.251%
186	12.154	12.142	12.177	VV	2976	45395	3.71%	0.189%
187	12.181	12.177	12.209	VV	1513	20572	1.68%	0.086%
188	12.230	12.209	12.247	VV	1132	22856	1.87%	0.095%
189	12.276	12.247	12.298	VV	4083	79789	6.53%	0.332%
190	12.313	12.298	12.333	VV	2131	34354	2.81%	0.143%
191	12.348	12.333	12.364	VV	1818	26924	2.20%	0.112%
192	12.383	12.364	12.416	VV	2845	63312	5.18%	0.264%
193	12.425	12.416	12.464	VV	1586	38500	3.15%	0.160%
194	12.478	12.464	12.490	VV	1540	19970	1.63%	0.083%

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195	12.509	12.490	12.515	VV	2674	30857	2.52%	0.129%
196	12.546	12.515	12.582	VV	97273	1198942	98.10%	4.994%
197	12.585	12.582	12.609	VV	3434	44163	3.61%	0.184%
198	12.626	12.609	12.641	VV	2972	46197	3.78%	0.192%
199	12.654	12.641	12.689	VV	2746	60584	4.96%	0.252%
200	12.694	12.689	12.704	VV	1631	13153	1.08%	0.055%
201	12.723	12.704	12.747	VV	2321	43728	3.58%	0.182%
202	12.769	12.747	12.809	VV	3174	75907	6.21%	0.316%
203	12.823	12.809	12.830	VV	1155	13541	1.11%	0.056%
204	12.875	12.830	12.896	VV	5571	113337	9.27%	0.472%
205	12.912	12.896	12.927	VV	2800	44944	3.68%	0.187%
206	12.940	12.927	12.968	VV	3242	51291	4.20%	0.214%
207	12.992	12.968	13.001	VV	4004	50924	4.17%	0.212%
208	13.016	13.001	13.042	VV	4489	74152	6.07%	0.309%
209	13.049	13.042	13.060	VV	1247	12754	1.04%	0.053%
210	13.070	13.060	13.077	VV	1073	10223	0.84%	0.043%
211	13.093	13.077	13.107	VV	1280	20979	1.72%	0.087%
212	13.120	13.107	13.137	VV	1633	23620	1.93%	0.098%
213	13.177	13.137	13.205	VV	2085	57500	4.70%	0.240%
214	13.212	13.205	13.225	VV	1425	15242	1.25%	0.063%
215	13.239	13.225	13.264	VV	1457	27563	2.26%	0.115%
216	13.289	13.264	13.314	VV	3479	53892	4.41%	0.224%
217	13.340	13.314	13.349	VV	1675	29222	2.39%	0.122%
218	13.358	13.349	13.375	VV	1607	23413	1.92%	0.098%
219	13.386	13.375	13.407	VV	1648	27460	2.25%	0.114%
220	13.412	13.407	13.416	VV	1327	7111	0.58%	0.030%
221	13.438	13.416	13.487	VV	2520	77950	6.38%	0.325%
222	13.500	13.487	13.535	VV	1658	35279	2.89%	0.147%
223	13.563	13.535	13.594	VV	6678	132164	10.81%	0.551%
224	13.617	13.594	13.670	VV	6922	178180	14.58%	0.742%
225	13.690	13.670	13.703	VV	2599	40159	3.29%	0.167%
226	13.720	13.703	13.737	VV	2837	46313	3.79%	0.193%
227	13.777	13.737	13.813	VV	23736	353280	28.91%	1.472%
228	13.818	13.813	13.822	VV	2378	12825	1.05%	0.053%
229	13.826	13.822	13.858	VV	2257	44430	3.64%	0.185%
230	13.879	13.858	13.909	VV	2853	62570	5.12%	0.261%
231	13.931	13.909	13.938	VV	1596	25424	2.08%	0.106%
232	13.955	13.938	13.971	VV	2442	38049	3.11%	0.158%
233	13.993	13.971	14.015	VV	2953	60294	4.93%	0.251%
234	14.027	14.015	14.040	VV	1992	26970	2.21%	0.112%
235	14.090	14.040	14.117	VV	5690	129908	10.63%	0.541%
236	14.143	14.117	14.149	VV	2738	40563	3.32%	0.169%
237	14.154	14.149	14.176	VV	2657	35066	2.87%	0.146%
238	14.198	14.176	14.216	VV	1967	37285	3.05%	0.155%
239	14.234	14.216	14.250	VV	1598	28876	2.36%	0.120%
240	14.263	14.250	14.281	VV	1733	27409	2.24%	0.114%
241	14.294	14.281	14.314	VV	1527	24598	2.01%	0.102%
242	14.372	14.314	14.409	VV	2082	89946	7.36%	0.375%
243	14.427	14.409	14.433	VV	1631	21729	1.78%	0.091%
244	14.436	14.433	14.445	VV	1563	11100	0.91%	0.046%
245	14.453	14.445	14.460	VV	1424	11366	0.93%	0.047%
246	14.470	14.460	14.476	VV	1485	13122	1.07%	0.055%

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247	14.498	14.476	14.515	VV	2353	44592	3.65%	0.186%
248	14.529	14.515	14.562	VV	2501	58563	4.79%	0.244%
249	14.572	14.562	14.580	VV	1828	19486	1.59%	0.081%
250	14.595	14.580	14.602	VV	2098	25478	2.08%	0.106%
251	14.608	14.602	14.629	VV	2033	27633	2.26%	0.115%
252	14.647	14.629	14.653	VV	1984	24057	1.97%	0.100%
253	14.656	14.653	14.679	VV	1848	24681	2.02%	0.103%
254	14.704	14.679	14.734	VV	4720	96950	7.93%	0.404%
255	14.739	14.734	14.743	VV	2071	10942	0.90%	0.046%
256	14.761	14.743	14.779	VV	2993	54522	4.46%	0.227%
257	14.798	14.779	14.809	VV	2444	40623	3.32%	0.169%
258	14.820	14.809	14.840	VV	2606	44066	3.61%	0.184%
259	14.859	14.840	14.882	VV	2622	50876	4.16%	0.212%
260	14.889	14.882	14.895	VV	1566	11440	0.94%	0.048%
261	14.920	14.895	14.939	VV	2798	54125	4.43%	0.225%
262	14.956	14.939	14.972	VV	2055	36198	2.96%	0.151%
263	14.983	14.972	15.002	VV	1997	32181	2.63%	0.134%
264	15.041	15.002	15.073	VV	87086	1222155	100.00%	5.091%
265	15.085	15.073	15.105	VV	2397	38241	3.13%	0.159%
266	15.123	15.105	15.127	VV	1736	21808	1.78%	0.091%
267	15.144	15.127	15.152	VV	1993	27515	2.25%	0.115%
268	15.172	15.152	15.182	VV	2203	34424	2.82%	0.143%
269	15.204	15.182	15.224	VV	3809	69895	5.72%	0.291%
270	15.244	15.224	15.272	VV	4754	91817	7.51%	0.382%
271	15.288	15.272	15.316	VV	3047	62694	5.13%	0.261%
272	15.334	15.316	15.347	VV	1989	34919	2.86%	0.145%
273	15.377	15.347	15.419	VV	3200	96155	7.87%	0.401%
274	15.423	15.419	15.432	VV	1518	11348	0.93%	0.047%
275	15.486	15.432	15.512	VV	2148	83625	6.84%	0.348%
276	15.515	15.512	15.521	VV	1610	8112	0.66%	0.034%
277	15.538	15.521	15.559	VV	1684	35237	2.88%	0.147%
278	15.572	15.559	15.588	VV	1821	29592	2.42%	0.123%
279	15.621	15.588	15.707	VV	31288	586186	47.96%	2.442%
280	15.715	15.707	15.737	VV	2444	39480	3.23%	0.164%
281	15.765	15.737	15.793	VV	6089	121204	9.92%	0.505%
282	15.799	15.793	15.805	VV	2226	15273	1.25%	0.064%
283	15.838	15.805	15.868	VV	7718	150197	12.29%	0.626%
284	15.892	15.868	15.899	VV	2290	38598	3.16%	0.161%
285	15.903	15.899	15.925	VV	2102	27834	2.28%	0.116%
286	15.932	15.925	15.937	VV	1787	13223	1.08%	0.055%
287	15.961	15.937	15.965	VV	1881	29004	2.37%	0.121%
288	15.976	15.965	15.981	VV	2166	19683	1.61%	0.082%
289	15.987	15.981	16.001	VV	2197	25584	2.09%	0.107%
290	16.013	16.001	16.027	VV	2264	33248	2.72%	0.138%
291	16.042	16.027	16.050	VV	2157	29192	2.39%	0.122%
292	16.077	16.050	16.089	VV	2515	51798	4.24%	0.216%
293	16.101	16.089	16.120	VV	2386	40724	3.33%	0.170%
294	16.143	16.120	16.150	VV	2479	41760	3.42%	0.174%
295	16.156	16.150	16.166	VV	2556	21780	1.78%	0.091%
296	16.172	16.166	16.195	VV	2381	38582	3.16%	0.161%
297	16.217	16.195	16.238	VV	2296	53646	4.39%	0.223%
298	16.266	16.238	16.312	VV	6197	145979	11.94%	0.608%
299	16.322	16.312	16.328	VV	2185	20906	1.71%	0.087%

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300	16.334	16.328	16.346	VV	2172	21910	1.79%	0.091%
301	16.359	16.346	16.369	VV	2279	29070	2.38%	0.121%
302	16.377	16.369	16.384	VV	1916	16328	1.34%	0.068%
303	16.394	16.384	16.411	VV	1958	30804	2.52%	0.128%
304	16.462	16.411	16.491	VV	3092	116565	9.54%	0.486%
305	16.495	16.491	16.507	VV	2119	18826	1.54%	0.078%
306	16.520	16.507	16.526	VV	2081	23659	1.94%	0.099%
307	16.565	16.526	16.588	VV	2939	93126	7.62%	0.388%
308	16.609	16.588	16.615	VV	2638	40792	3.34%	0.170%
309	16.638	16.615	16.687	VV	4812	141683	11.59%	0.590%
310	16.719	16.687	16.725	VV	3642	71404	5.84%	0.297%
311	16.748	16.725	16.784	VV	6984	150433	12.31%	0.627%
312	16.789	16.784	16.793	VV	2323	12472	1.02%	0.052%
313	16.830	16.793	16.847	VV	3473	95606	7.82%	0.398%
314	16.852	16.847	16.858	VV	2600	16162	1.32%	0.067%
315	16.879	16.858	16.896	VV	3384	69308	5.67%	0.289%
316	16.901	16.896	16.927	VV	3032	50767	4.15%	0.211%
317	16.937	16.927	16.942	VV	2676	23636	1.93%	0.098%
318	16.948	16.942	16.954	VV	2825	18697	1.53%	0.078%
319	16.977	16.954	16.997	VV	3290	76875	6.29%	0.320%
320	17.023	16.997	17.066	VV	3913	135673	11.10%	0.565%
321	17.110	17.066	17.135	VV	3453	126081	10.32%	0.525%
322	17.140	17.135	17.144	VV	2775	14665	1.20%	0.061%
323	17.167	17.144	17.188	VV	3192	78386	6.41%	0.327%
324	17.217	17.188	17.240	VV	7681	161436	13.21%	0.672%
325	17.267	17.240	17.318	VV	7978	210595	17.23%	0.877%
326	17.343	17.318	17.377	VV	3390	104197	8.53%	0.434%
Sum of corrected areas:						24006923		

FG111324.M Mon Nov 18 06:43:11 2024

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-10-TPH-2		SDG No.:	P4839	
Lab Sample ID:	P4839-15		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	84	Decanted:
Sample Wt/Vol:	30.04	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
FG014843.D	20	11/14/24 13:15	11/18/24 10:56	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	518000		4400	39600	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	0.75		37 - 130	75%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
 Data File : FG014843.D
 Signal(s) : FID1A.ch
 Acq On : 18 Nov 2024 10:56
 Operator : YP\AJ
 Sample : P4839-15 20X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 EX-10-TPH-2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/19/2024
 Supervised By :Ankita Jodhani 11/19/2024

Integration File: autoint1.e
 Quant Time: Nov 19 01:30:23 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Quant Title :
 QLast Update : Wed Nov 13 13:49:18 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...	15.039	84007	0.749 ug/mlm

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014843.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 10:56
Operator : YP\AJ
Sample : P4839-15 20X
Misc :
ALS Vial : 12 Sample Multiplier: 1

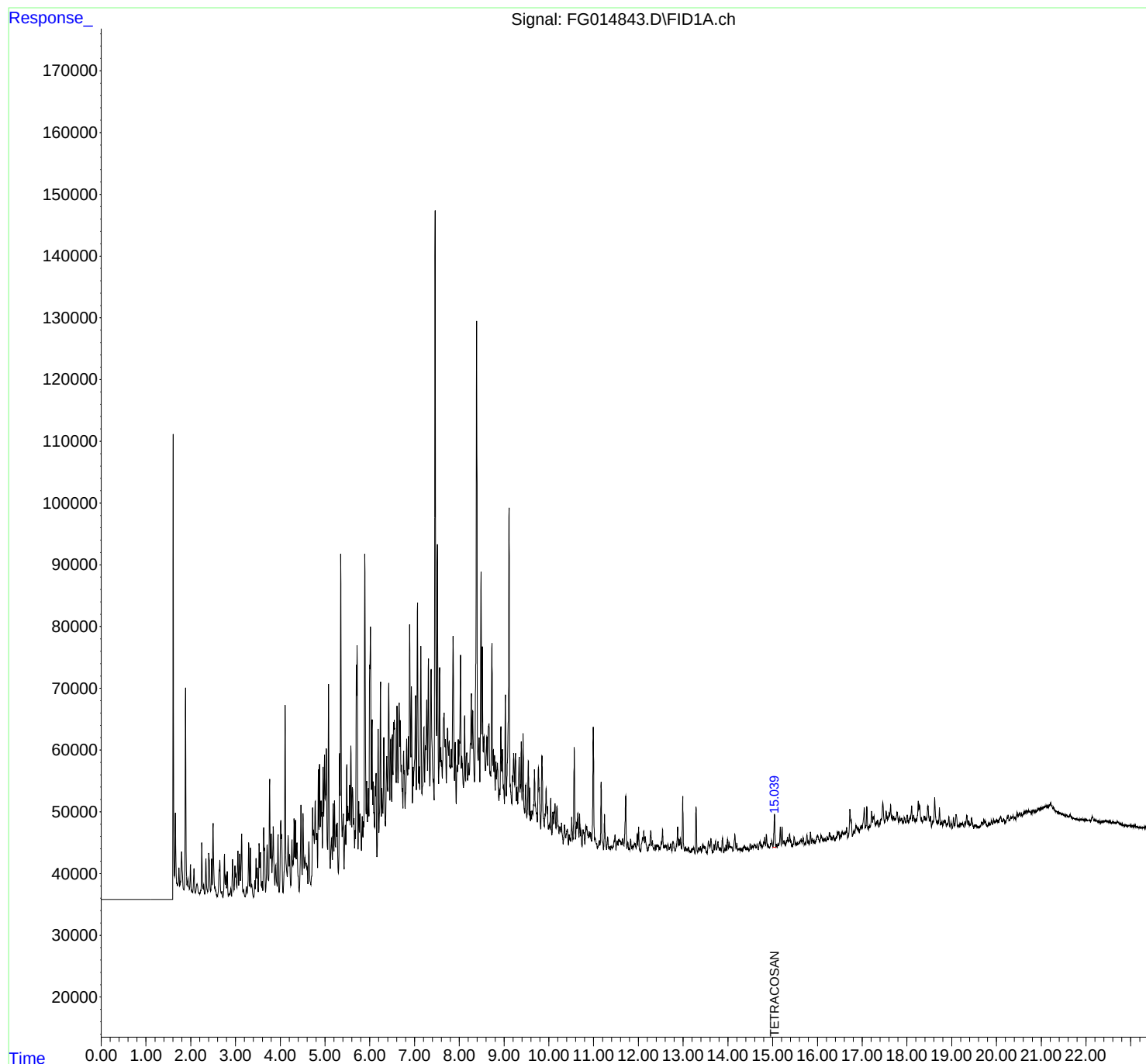
Instrument :
FID_G
ClientSampleId :
EX-10-TPH-2

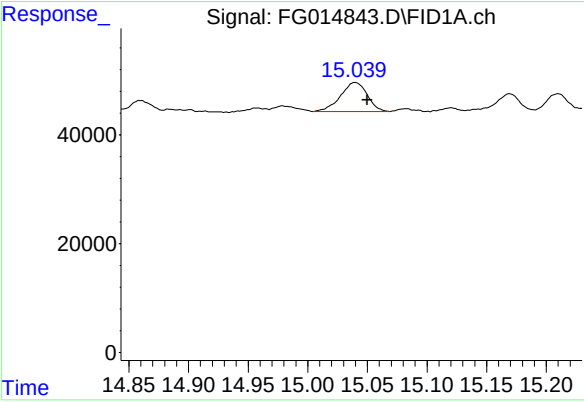
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: autoint1.e
Quant Time: Nov 19 01:30:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.039 min
Delta R.T.: -0.011 min
Response: 84007
Conc: 0.75 ug/ml

Instrument :
FID_G
ClientSampleId :
EX-10-TPH-2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Instrument :

FID_G

ClientSampleId :

EX-10-TPH-2

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11182
Data File : FG014843.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 10:56
Sample : P4839-15 20X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.464	4.420	4.490	BH	13924	226110	11.60%	0.276%
2	4.509	4.490	4.535	HH	12542	195125	10.01%	0.238%
3	4.552	4.535	4.570	HH	5437	97919	5.03%	0.119%
4	4.581	4.570	4.593	HH	4535	58064	2.98%	0.071%
5	4.601	4.593	4.618	HH	3919	42718	2.19%	0.052%
6	4.640	4.618	4.683	HH	7959	139337	7.15%	0.170%
7	4.724	4.683	4.737	HH	13480	190720	9.79%	0.233%
8	4.745	4.737	4.763	HH	9902	144860	7.43%	0.177%
9	4.781	4.763	4.808	HH	14545	283375	14.54%	0.346%
10	4.821	4.808	4.836	HH	9377	124759	6.40%	0.152%
11	4.852	4.836	4.864	HH	19647	218384	11.21%	0.266%
12	4.877	4.864	4.897	HH	20464	296800	15.23%	0.362%
13	4.912	4.897	4.923	HH	14620	198642	10.19%	0.242%
14	4.929	4.923	4.942	HH	12773	123749	6.35%	0.151%
15	4.957	4.942	4.973	HH	20012	258564	13.27%	0.315%
16	4.990	4.973	5.004	HH	22030	325778	16.72%	0.397%
17	5.031	5.004	5.059	HH	23064	482433	24.76%	0.588%
18	5.080	5.059	5.117	HH	33441	494108	25.36%	0.603%
19	5.147	5.117	5.165	HH	8561	183394	9.41%	0.224%
20	5.183	5.165	5.200	HH	14156	202769	10.41%	0.247%
21	5.214	5.200	5.237	HH	14605	217787	11.18%	0.266%
22	5.252	5.237	5.262	HH	10718	136582	7.01%	0.167%
23	5.272	5.262	5.299	HH	11016	163470	8.39%	0.199%
24	5.327	5.299	5.337	HH	22279	277748	14.25%	0.339%
25	5.353	5.337	5.384	HH	54459	732261	37.58%	0.893%
26	5.408	5.384	5.426	HH	12478	234465	12.03%	0.286%
27	5.454	5.426	5.466	HH	10656	193568	9.93%	0.236%
28	5.486	5.466	5.501	HH	20472	297318	15.26%	0.363%
29	5.510	5.501	5.520	HH	13727	148055	7.60%	0.181%
30	5.527	5.520	5.536	HH	12581	111962	5.75%	0.137%
31	5.551	5.536	5.563	HH	17110	228641	11.73%	0.279%
32	5.579	5.563	5.597	HH	23483	353761	18.16%	0.431%
33	5.613	5.597	5.638	HH	16696	349473	17.94%	0.426%
34	5.647	5.638	5.662	HH	11738	142874	7.33%	0.174%
35	5.675	5.662	5.683	HH	9866	108840	5.59%	0.133%
36	5.701	5.683	5.709	HH	36563	383678	19.69%	0.468%

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37	5.718	5.709	5.739	HH	39710	469019	24.07%	0.572%
38	5.755	5.739	5.769	HH	14473	200770	10.00%	0.572%
39	5.783	5.769	5.814	HH	12469	267800	13.00%	0.572%
40	5.833	5.814	5.848	HH	12053	195414	10.00%	0.572%
41	5.860	5.848	5.867	HH	11216	120505	6.00%	0.572%
42	5.891	5.867	5.920	HH	54527	897834	40.00%	0.572%
43	5.931	5.920	5.947	HH	17766	234893	12.06%	0.286%
44	5.971	5.947	5.982	HH	16657	288419	14.80%	0.352%
45	6.000	5.982	6.004	HH	36638	360455	18.50%	0.440%
46	6.017	6.004	6.039	HH	42755	651232	33.42%	0.794%
47	6.052	6.039	6.066	HH	27719	342534	17.58%	0.418%
48	6.076	6.066	6.106	HH	17657	331643	17.02%	0.404%
49	6.121	6.106	6.129	HH	16960	197929	10.16%	0.241%
50	6.139	6.129	6.161	HH	19038	254610	13.07%	0.311%
51	6.188	6.161	6.206	HH	26230	387854	19.91%	0.473%
52	6.240	6.206	6.259	HH	33838	602510	30.92%	0.735%
53	6.272	6.259	6.294	HH	16609	295444	15.16%	0.360%
54	6.315	6.294	6.351	HH	24850	565022	29.00%	0.689%
55	6.380	6.351	6.401	HH	21769	512799	26.32%	0.625%
56	6.425	6.401	6.450	HH	33641	683113	35.06%	0.833%
57	6.467	6.450	6.490	HH	24517	484505	24.87%	0.591%
58	6.507	6.490	6.518	HH	25293	347493	17.83%	0.424%
59	6.534	6.518	6.541	HH	27354	337232	17.31%	0.411%
60	6.550	6.541	6.591	HH	27672	694008	35.62%	0.846%
61	6.610	6.591	6.631	HH	29935	546051	28.02%	0.666%
62	6.656	6.631	6.673	HH	30441	621613	31.90%	0.758%
63	6.683	6.673	6.699	HH	27593	382716	19.64%	0.467%
64	6.708	6.699	6.723	HH	20386	264565	13.58%	0.323%
65	6.729	6.723	6.741	HH	16618	169641	8.71%	0.207%
66	6.757	6.741	6.769	HH	22666	316541	16.25%	0.386%
67	6.774	6.769	6.790	HH	19498	219397	11.26%	0.268%
68	6.825	6.790	6.847	HH	24615	644864	33.10%	0.787%
69	6.865	6.847	6.876	HH	24975	372063	19.09%	0.454%
70	6.892	6.876	6.917	HH	43123	764946	39.26%	0.933%
71	6.932	6.917	6.954	HH	33059	561024	28.79%	0.684%
72	6.966	6.954	6.976	HH	20064	234126	12.02%	0.286%
73	7.022	6.976	7.042	HH	31604	878009	45.06%	1.071%
74	7.066	7.042	7.094	HH	46597	895421	45.95%	1.092%
75	7.104	7.094	7.117	HH	20117	256684	13.17%	0.313%
76	7.142	7.117	7.167	HH	39625	779827	40.02%	0.951%
77	7.209	7.167	7.227	HH	26497	726300	37.27%	0.886%
78	7.243	7.227	7.250	HH	23519	300163	15.40%	0.366%
79	7.274	7.250	7.292	HH	30930	639451	32.82%	0.780%
80	7.312	7.292	7.342	HH	37567	795236	40.81%	0.970%
81	7.370	7.342	7.416	HH	35874	1083991	55.63%	1.322%
82	7.422	7.416	7.437	HH	18159	219127	11.25%	0.267%
83	7.461	7.437	7.494	HH	110148	1730574	88.82%	2.111%
84	7.510	7.494	7.539	HH	56114	966944	49.62%	1.179%
85	7.561	7.539	7.577	HH	36183	605987	31.10%	0.739%
86	7.587	7.577	7.601	HH	23246	303100	15.56%	0.370%
87	7.607	7.601	7.620	HH	21141	239019	12.27%	0.292%
88	7.662	7.620	7.680	HH	28786	895210	45.94%	1.092%
89	7.690	7.680	7.712	HH	24590	427213	21.93%	0.521%

Instrument :

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ClientSampleId :

EX-10-TPH-2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Instrument :

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90	7.737	7.712	7.764	HH	26344	707446	36.31%	0.863%
91	7.774	7.764	7.789	HH	24167	340021	17.06%	0.863%
92	7.795	7.789	7.804	HH	20429	187640	9.19%	0.863%
93	7.823	7.804	7.836	HH	22960	412132	21.16%	0.863%
94	7.863	7.836	7.892	HH	41214	961677	46.81%	0.863%
95	7.911	7.892	7.932	HH	24088	472433	24.18%	0.863%
96	7.951	7.932	7.961	HH	20311	327127	16.79%	0.399%
97	7.978	7.961	7.991	HH	24549	388124	19.92%	0.473%
98	8.005	7.991	8.009	HH	24287	250369	12.85%	0.305%
99	8.029	8.009	8.047	HH	38186	653905	33.56%	0.798%
100	8.057	8.047	8.094	HH	21814	553045	28.38%	0.675%
101	8.120	8.094	8.141	HH	28393	606236	31.11%	0.739%
102	8.167	8.141	8.186	HH	22356	554493	28.46%	0.676%
103	8.209	8.186	8.222	HH	20676	414848	21.29%	0.506%
104	8.270	8.222	8.286	HH	31979	936386	48.06%	1.142%
105	8.300	8.286	8.339	HH	29135	757807	38.89%	0.924%
106	8.388	8.339	8.421	HH	92290	1948512	100.00%	2.377%
107	8.442	8.421	8.462	HH	24806	531417	27.27%	0.648%
108	8.487	8.462	8.503	HH	51632	845069	43.37%	1.031%
109	8.515	8.503	8.540	HH	39512	662791	34.02%	0.808%
110	8.552	8.540	8.589	HH	25005	658719	33.81%	0.803%
111	8.616	8.589	8.630	HH	24943	545142	27.98%	0.665%
112	8.663	8.630	8.685	HH	27088	795074	40.80%	0.970%
113	8.690	8.685	8.706	HH	19288	236895	12.16%	0.289%
114	8.729	8.706	8.748	HH	40029	706770	36.27%	0.862%
115	8.763	8.748	8.776	HH	22963	353742	18.15%	0.431%
116	8.787	8.776	8.804	HH	21976	329205	16.90%	0.402%
117	8.818	8.804	8.832	HH	20913	326641	16.76%	0.398%
118	8.855	8.832	8.887	HH	20704	587275	30.14%	0.716%
119	8.900	8.887	8.910	HH	16344	217512	11.16%	0.265%
120	8.929	8.910	8.945	HH	26619	447861	22.98%	0.546%
121	8.965	8.945	8.983	HH	22893	467253	23.98%	0.570%
122	8.990	8.983	9.010	HH	17009	257891	13.24%	0.315%
123	9.030	9.010	9.052	HH	31746	556102	28.54%	0.678%
124	9.112	9.052	9.137	HH	62027	1466941	75.29%	1.789%
125	9.141	9.137	9.172	HH	17130	334987	17.19%	0.409%
126	9.191	9.172	9.200	HH	18674	279155	14.33%	0.340%
127	9.214	9.200	9.235	HH	22306	416854	21.39%	0.508%
128	9.255	9.235	9.275	HH	22275	456240	23.41%	0.556%
129	9.289	9.275	9.307	HH	16740	301544	15.48%	0.368%
130	9.339	9.307	9.355	HH	21666	508300	26.09%	0.620%
131	9.364	9.355	9.369	HH	17191	145881	7.49%	0.178%
132	9.385	9.369	9.402	HH	24139	383733	19.69%	0.468%
133	9.425	9.402	9.461	HH	25472	610469	31.33%	0.745%
134	9.483	9.461	9.507	HH	17156	400650	20.56%	0.489%
135	9.542	9.507	9.560	HH	21051	486748	24.98%	0.594%
136	9.574	9.560	9.589	HH	16570	248107	12.73%	0.303%
137	9.603	9.589	9.615	HH	12914	191762	9.84%	0.234%
138	9.635	9.615	9.646	HH	12939	227227	11.66%	0.277%
139	9.660	9.646	9.665	HH	13966	154355	7.92%	0.188%
140	9.681	9.665	9.697	HH	19671	314400	16.14%	0.383%
141	9.702	9.697	9.721	HH	14170	197497	10.14%	0.241%

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142	9.726	9.721	9.742	HH	12656	152167	7.81%	0.186%
143	9.768	9.742	9.782	HH	19999	379653	19.99%	0.186%
144	9.788	9.782	9.819	HH	16733	303869	16.73%	0.186%
145	9.847	9.819	9.901	HH	21851	704020	30.21%	0.186%
146	9.918	9.901	9.922	HH	12503	147411	7.19%	0.259%
147	9.940	9.922	9.960	HH	16555	330371	16.55%	0.259%
148	9.969	9.960	9.990	HH	13698	212534	10.91%	0.259%
149	10.011	9.990	10.026	HH	10734	226419	11.62%	0.276%
150	10.044	10.026	10.068	HH	15022	295287	15.15%	0.360%
151	10.091	10.068	10.111	HH	12782	286975	14.73%	0.350%
152	10.138	10.111	10.160	HH	14145	364081	18.69%	0.444%
153	10.182	10.160	10.228	HH	13675	457000	23.45%	0.557%
154	10.246	10.228	10.267	HH	10366	231497	11.88%	0.282%
155	10.286	10.267	10.322	HH	11011	312376	16.03%	0.381%
156	10.351	10.322	10.380	HH	10685	321276	16.49%	0.392%
157	10.412	10.380	10.439	HH	9943	321062	16.48%	0.392%
158	10.456	10.439	10.474	HH	9134	179603	9.22%	0.219%
159	10.482	10.474	10.489	HH	8374	74637	3.83%	0.091%
160	10.511	10.489	10.539	HH	11979	288732	14.82%	0.352%
161	10.570	10.539	10.596	HH	23253	491461	25.22%	0.599%
162	10.617	10.596	10.629	HH	11066	196471	10.08%	0.240%
163	10.648	10.629	10.672	HH	12582	285532	14.65%	0.348%
164	10.689	10.672	10.707	HH	12498	215062	11.04%	0.262%
165	10.718	10.707	10.741	HH	9788	178497	9.16%	0.218%
166	10.765	10.741	10.804	HH	9926	332153	17.05%	0.405%
167	10.828	10.804	10.837	HH	10586	185327	9.51%	0.226%
168	10.849	10.837	10.885	HH	10470	271034	13.91%	0.331%
169	10.900	10.885	10.920	HH	9605	192180	9.86%	0.234%
170	10.935	10.920	10.952	HH	9483	175065	8.98%	0.214%
171	10.993	10.952	11.022	HV	26452	595181	30.55%	0.726%
172	11.032	11.022	11.065	VV	8434	208806	10.72%	0.255%
173	11.069	11.065	11.085	VV	7556	85402	4.38%	0.104%
174	11.094	11.085	11.102	VV	7010	68849	3.53%	0.084%
175	11.132	11.102	11.143	VV	7907	184734	9.48%	0.225%
176	11.169	11.143	11.222	VV	17345	451488	23.17%	0.551%
177	11.245	11.222	11.288	VV	11875	325343	16.70%	0.397%
178	11.315	11.288	11.344	VV	8183	238130	12.22%	0.290%
179	11.351	11.344	11.369	VV	6584	94810	4.87%	0.116%
180	11.390	11.369	11.414	VV	6636	173059	8.88%	0.211%
181	11.419	11.414	11.423	VV	6315	32629	1.67%	0.040%
182	11.433	11.423	11.440	VV	6537	66161	3.40%	0.081%
183	11.480	11.440	11.502	VV	8299	263870	13.54%	0.322%
184	11.528	11.502	11.546	VV	7249	178651	9.17%	0.218%
185	11.562	11.546	11.578	VV	7424	134180	6.89%	0.164%
186	11.586	11.578	11.594	VV	7206	69190	3.55%	0.084%
187	11.597	11.594	11.610	VV	7141	69154	3.55%	0.084%
188	11.625	11.610	11.637	VV	6795	105884	5.43%	0.129%
189	11.650	11.637	11.679	VV	7409	172170	8.84%	0.210%
190	11.718	11.679	11.744	VV	14241	366953	18.83%	0.448%
191	11.764	11.744	11.788	VV	6672	161319	8.28%	0.197%
192	11.795	11.788	11.805	VV	5634	55710	2.86%	0.068%
193	11.826	11.805	11.847	VV	7064	158248	8.12%	0.193%
194	11.864	11.847	11.882	VV	5891	118723	6.09%	0.145%

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195	11.890	11.882	11.900	VV	5904	63760	3.27%	0.078%
196	11.914	11.900	11.927	VV	6216	96973		
197	11.932	11.927	11.950	VV	6200	80439		
198	11.973	11.950	11.989	VV	7640	150937		
199	12.005	11.989	12.047	VV	8787	220558		
200	12.089	12.047	12.106	VV	6994	215070		
201	12.123	12.106	12.140	VV	7966	141355	7.25%	0.172%
202	12.155	12.140	12.210	VV	6997	241404	12.39%	0.294%
203	12.240	12.210	12.254	VV	5607	138081	7.09%	0.168%
204	12.277	12.254	12.298	VV	7785	174622	8.96%	0.213%
205	12.315	12.298	12.354	VV	6134	176189	9.04%	0.215%
206	12.375	12.354	12.390	VV	5369	106518	5.47%	0.130%
207	12.411	12.390	12.435	VV	5269	134557	6.91%	0.164%
208	12.445	12.435	12.462	VV	5145	80265	4.12%	0.098%
209	12.479	12.462	12.490	VV	4801	78065	4.01%	0.095%
210	12.513	12.490	12.522	VV	5631	100340	5.15%	0.122%
211	12.540	12.522	12.580	VV	7636	200955	10.31%	0.245%
212	12.598	12.580	12.616	VV	4911	100780	5.17%	0.123%
213	12.623	12.616	12.641	VV	4843	69323	3.56%	0.085%
214	12.662	12.641	12.685	VV	5046	121255	6.22%	0.148%
215	12.699	12.685	12.704	VV	4502	48336	2.48%	0.059%
216	12.721	12.704	12.748	VV	5019	116941	6.00%	0.143%
217	12.768	12.748	12.779	VV	5281	88414	4.54%	0.108%
218	12.783	12.779	12.827	VV	5266	124285	6.38%	0.152%
219	12.876	12.827	12.895	VV	7545	210424	10.80%	0.257%
220	12.912	12.895	12.925	VV	5421	89385	4.59%	0.109%
221	12.939	12.925	12.970	VV	5597	127287	6.53%	0.155%
222	12.990	12.970	13.034	VV	12325	235818	12.10%	0.288%
223	13.053	13.034	13.081	VV	3954	104312	5.35%	0.127%
224	13.088	13.081	13.105	VV	3691	50831	2.61%	0.062%
225	13.119	13.105	13.138	VV	3849	70795	3.63%	0.086%
226	13.150	13.138	13.168	VV	3193	55268	2.84%	0.067%
227	13.183	13.168	13.195	VV	3438	52501	2.69%	0.064%
228	13.208	13.195	13.225	VV	3615	61418	3.15%	0.075%
229	13.236	13.225	13.264	VV	3686	75203	3.86%	0.092%
230	13.289	13.264	13.321	VV	10137	178348	9.15%	0.218%
231	13.352	13.321	13.369	VV	3448	90035	4.62%	0.110%
232	13.385	13.369	13.416	VV	3614	89643	4.60%	0.109%
233	13.439	13.416	13.451	VV	3938	73912	3.79%	0.090%
234	13.464	13.451	13.475	VV	3564	49756	2.55%	0.061%
235	13.486	13.475	13.490	VV	3352	29584	1.52%	0.036%
236	13.496	13.490	13.514	VV	3353	42114	2.16%	0.051%
237	13.522	13.514	13.535	VV	2483	30860	1.58%	0.038%
238	13.566	13.535	13.582	VV	4207	98642	5.06%	0.120%
239	13.587	13.582	13.599	VV	3529	33280	1.71%	0.041%
240	13.622	13.599	13.669	VV	4535	135585	6.96%	0.165%
241	13.689	13.669	13.704	VV	3446	59335	3.05%	0.072%
242	13.721	13.704	13.745	VV	3961	79763	4.09%	0.097%
243	13.778	13.745	13.807	VV	3828	112072	5.75%	0.137%
244	13.822	13.807	13.839	VV	2732	50369	2.58%	0.061%
245	13.843	13.839	13.850	VV	2500	15058	0.77%	0.018%
246	13.879	13.850	13.911	VV	4274	107665	5.53%	0.131%

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247	13.926	13.911	13.940	VV	2457	38269	1.96%	0.047%
248	13.957	13.940	13.971	VV	2932	47153		
249	13.989	13.971	14.010	VV	3899	72118		
250	14.026	14.010	14.042	VV	3363	54118		
251	14.048	14.042	14.050	VV	2608	12439		
252	14.057	14.050	14.083	VV	2600	48219		
253	14.089	14.083	14.110	VV	2524	35906	1.84%	0.044%
254	14.155	14.110	14.178	VV	4422	119052	6.11%	0.145%
255	14.198	14.178	14.221	VV	2928	58885	3.02%	0.072%
256	14.229	14.221	14.235	VV	2072	15790	0.81%	0.019%
257	14.245	14.235	14.257	VV	1962	24591	1.26%	0.030%
258	14.261	14.257	14.265	VV	1870	8997	0.46%	0.011%
259	14.271	14.265	14.281	VV	1903	17199	0.88%	0.021%
260	14.290	14.281	14.319	VV	1999	39517	2.03%	0.048%
261	14.358	14.319	14.364	VV	2141	49497	2.54%	0.060%
262	14.374	14.364	14.401	VV	2237	44164	2.27%	0.054%
263	14.414	14.401	14.429	VV	1798	28100	1.44%	0.034%
264	14.447	14.429	14.477	VV	1821	46714	2.40%	0.057%
265	14.501	14.477	14.515	VV	2360	43408	2.23%	0.053%
266	14.536	14.515	14.540	VV	1813	24814	1.27%	0.030%
267	14.554	14.540	14.568	VV	1926	30064	1.54%	0.037%
268	14.598	14.568	14.637	VV	2128	75604	3.88%	0.092%
269	14.649	14.637	14.673	VV	2125	37890	1.94%	0.046%
270	14.706	14.673	14.712	VV	2357	42171	2.16%	0.051%
271	14.716	14.712	14.731	VV	2406	23673	1.21%	0.029%
272	14.736	14.731	14.745	VV	1890	15297	0.79%	0.019%
273	14.755	14.745	14.775	VV	1840	30194	1.55%	0.037%
274	14.796	14.775	14.805	VV	2232	33412	1.71%	0.041%
275	14.822	14.805	14.840	VV	2998	47272	2.43%	0.058%
276	14.860	14.840	14.879	VV	3353	55817	2.86%	0.068%
277	14.884	14.879	14.897	VV	1723	17905	0.92%	0.022%
278	14.901	14.897	14.907	VV	1638	9050	0.46%	0.011%
279	14.913	14.907	14.934	VV	1348	19192	0.98%	0.023%
280	14.957	14.934	14.967	VV	1806	29944	1.54%	0.037%
281	14.979	14.967	15.005	VV	2223	39515	2.03%	0.048%
282	15.040	15.005	15.069	VV	6423	124354	6.38%	0.152%
283	15.082	15.069	15.101	VV	1518	24449	1.25%	0.030%
284	15.120	15.101	15.132	VV	1626	23733	1.22%	0.029%
285	15.169	15.132	15.190	VV	4150	77791	3.99%	0.095%
286	15.210	15.190	15.230	VV	4083	61049	3.13%	0.074%
287	15.247	15.230	15.259	VV	1816	28244	1.45%	0.034%
288	15.264	15.259	15.292	VV	1584	26119	1.34%	0.032%
289	15.332	15.292	15.349	VV	2271	56316	2.89%	0.069%
290	15.376	15.349	15.435	VV	2707	82545	4.24%	0.101%
291	15.480	15.435	15.499	VV	2075	47444	2.43%	0.058%
292	15.507	15.499	15.515	VV	1196	9272	0.48%	0.011%
293	15.524	15.515	15.534	VV	900	8594	0.44%	0.010%
294	15.553	15.534	15.568	VV	915	16178	0.83%	0.020%
295	15.591	15.568	15.596	VV	1035	14680	0.75%	0.018%
296	15.602	15.596	15.607	VV	1013	6216	0.32%	0.008%
297	15.618	15.607	15.623	VV	1298	11557	0.59%	0.014%
298	15.636	15.623	15.656	VV	1535	23640	1.21%	0.029%
299	15.682	15.656	15.705	VV	1633	32874	1.69%	0.040%

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300	15.727	15.705	15.744	VV	822	15144	0.78%	0.018%
301	15.766	15.744	15.790	VV	1929	34584		
302	15.797	15.790	15.818	VV	871	11457		
303	15.844	15.818	15.863	VV	2324	34001		
304	15.881	15.863	15.913	VV	1202	24739		
305	15.923	15.913	15.950	VV	730	12212		
306	15.989	15.950	15.997	VV	1359	25981	1.33%	0.032%
307	16.005	15.997	16.047	VV	1627	32330	1.66%	0.039%
308	16.052	16.047	16.057	VV	618	3129	0.16%	0.004%
309	16.078	16.057	16.123	VV	1424	36056	1.85%	0.044%
310	16.134	16.123	16.143	VV	800	7534	0.39%	0.009%
311	16.150	16.143	16.159	VV	678	5643	0.29%	0.007%
312	16.172	16.159	16.196	VV	783	12327	0.63%	0.015%
313	16.216	16.196	16.247	VV	1043	21069	1.08%	0.026%
314	16.266	16.247	16.304	VV	1571	36096	1.85%	0.044%
315	16.316	16.304	16.333	VV	732	10204	0.52%	0.012%
316	16.352	16.333	16.389	VV	1042	19394	1.00%	0.024%
317	16.411	16.389	16.416	PV	531	4703	0.24%	0.006%
318	16.447	16.416	16.464	VV	1329	25505	1.31%	0.031%
319	16.481	16.464	16.497	VV	1417	20374	1.05%	0.025%
320	16.527	16.497	16.537	VV	793	14180	0.73%	0.017%
321	16.558	16.537	16.590	VV	1264	31113	1.60%	0.038%
322	16.607	16.590	16.613	VV	1045	12523	0.64%	0.015%
323	16.618	16.613	16.627	VV	968	8029	0.41%	0.010%
324	16.652	16.627	16.681	VV	1804	31394	1.61%	0.038%
325	16.725	16.681	16.743	PV	4593	75115	3.86%	0.092%
326	16.755	16.743	16.779	VV	2762	38269	1.96%	0.047%
327	16.787	16.779	16.793	PV	357	2282	0.12%	0.003%
328	16.804	16.793	16.822	VV	763	9509	0.49%	0.012%
329	16.834	16.822	16.840	VV	810	7553	0.39%	0.009%
330	16.863	16.840	16.889	VV	1541	34759	1.78%	0.042%
331	16.893	16.889	16.909	VV	1064	10484	0.54%	0.013%
332	16.916	16.909	16.934	VV	911	10334	0.53%	0.013%
333	16.982	16.934	16.999	VV	1192	30800	1.58%	0.038%
334	17.046	16.999	17.075	VV	3864	87073	4.47%	0.106%
335	17.104	17.075	17.144	VV	3923	58885	3.02%	0.072%
336	17.211	17.144	17.230	PV	2687	51570	2.65%	0.063%
337	17.251	17.230	17.257	VV	1631	21963	1.13%	0.027%
338	17.265	17.257	17.287	VV	1621	16581	0.85%	0.020%
339	17.291	17.287	17.297	VV	268	935	0.05%	0.001%
340	17.320	17.297	17.331	PV	341	2216	0.11%	0.003%
341	17.344	17.331	17.350	VBA	403	8147	0.42%	0.010%
Sum of corrected areas:						81989622		

Instrument :

FID_G

ClientSampleId :

EX-10-TPH-2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

FG111324.M Tue Nov 19 02:28:33 2024

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-10-TPH-3		SDG No.:	P4839	
Lab Sample ID:	P4839-16		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	77.6	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
FG014829.D	10	11/14/24 13:15	11/16/24 16:43	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	153000		2380	21500	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	1.57		37 - 130	78%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014829.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 16:43
Operator : YP\AJ
Sample : P4839-16 10X
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-10-TPH-3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
Quant Time: Nov 18 05:52:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.040	176590	1.574 ug/mlm

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014829.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 16:43
Operator : YP\AJ
Sample : P4839-16 10X
Misc :
ALS Vial : 35 Sample Multiplier: 1

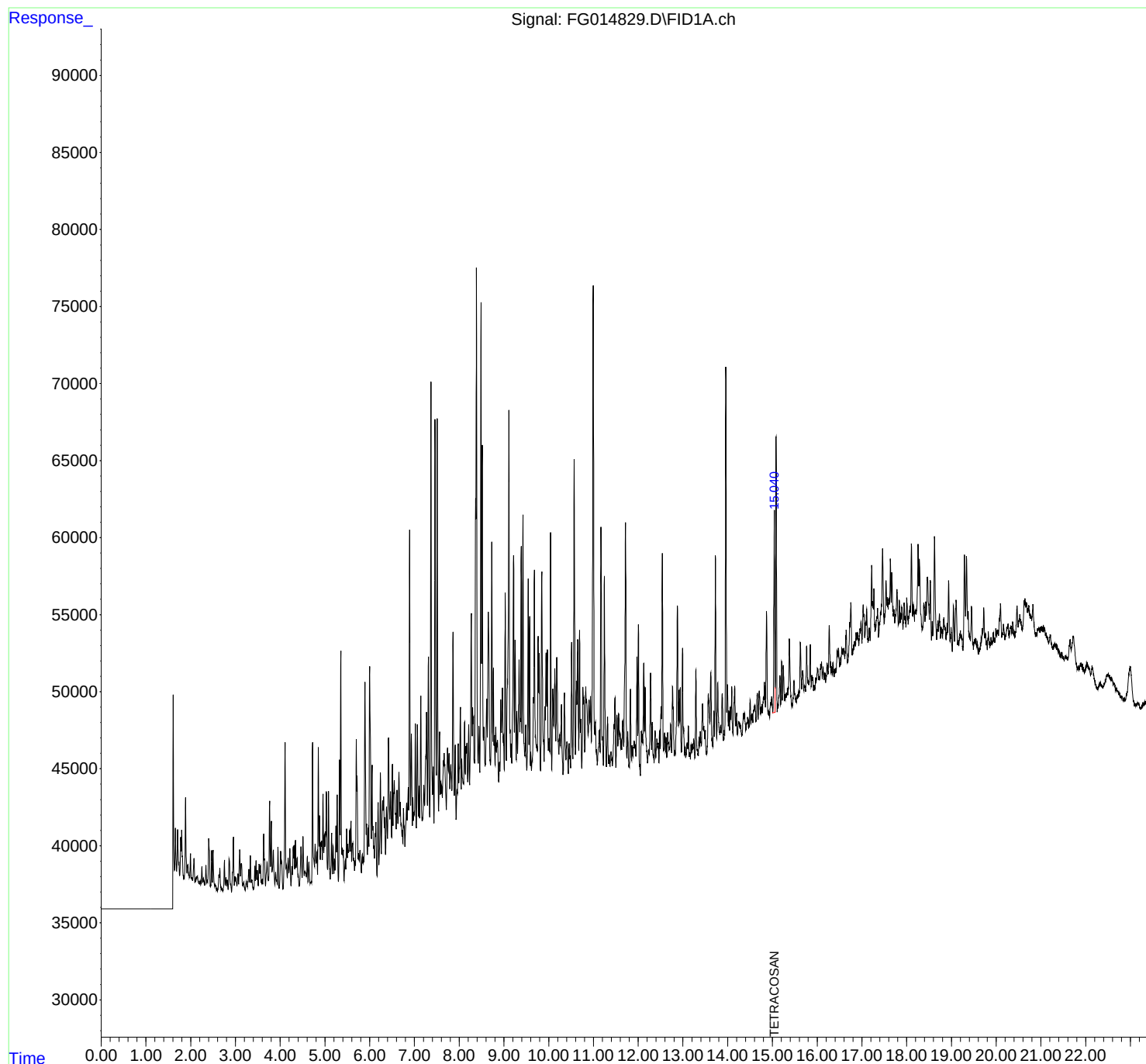
Instrument :
FID_G
ClientSampleId :
EX-10-TPH-3

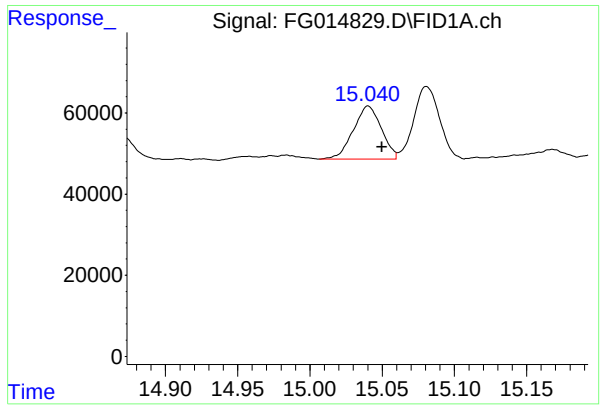
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
Quant Time: Nov 18 05:52:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.040 min
Delta R.T.: -0.010 min
Response: 176590
Conc: 1.57 ug/ml

Instrument :

FID_G

ClientSampleId :

EX-10-TPH-3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/18/2024

Supervised By :Ankita Jodhani 11/18/2024

rteres

Instrument :

FID_G

ClientSampleId :

EX-10-TPH-3

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11162

Data File : FG014829.D

Signal(s) : FID1A.ch

Acq On : 16 Nov 2024 16:43

Sample : P4839-16 10X

Misc :

ALS Vial : 35 Sample Multiplier: 1

Reviewed By :Yogesh Patel 11/18/2024

Supervised By :Ankita Jodhani 11/18/2024

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M

Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.937	1.906	1.972	BV	360	1336	0.20%	0.003%
2	1.995	1.972	2.019	PV	1642	16473	2.48%	0.037%
3	2.022	2.019	2.042	VV	141	1221	0.18%	0.003%
4	4.510	4.491	4.536	VV	3258	48117	7.24%	0.107%
5	4.552	4.536	4.588	VV	988	25535	3.84%	0.057%
6	4.606	4.588	4.625	VV	1944	23185	3.49%	0.052%
7	4.642	4.625	4.672	VV	1542	21862	3.29%	0.049%
8	4.677	4.672	4.689	VV	210	1949	0.29%	0.004%
9	4.723	4.689	4.767	VV	9264	124845	18.79%	0.279%
10	4.782	4.767	4.803	VV	2658	41157	6.19%	0.092%
11	4.822	4.803	4.836	VV	2134	30886	4.65%	0.069%
12	4.853	4.836	4.867	VV	8882	91493	13.77%	0.204%
13	4.878	4.867	4.897	VV	4455	53919	8.12%	0.120%
14	4.913	4.897	4.924	VV	2746	38152	5.74%	0.085%
15	4.931	4.924	4.942	VV	2814	26234	3.95%	0.059%
16	4.957	4.942	4.975	VV	5846	70284	10.58%	0.157%
17	4.989	4.975	5.000	VV	3203	40554	6.10%	0.091%
18	5.012	5.000	5.019	VV	3372	34875	5.25%	0.078%
19	5.033	5.019	5.060	VV	5977	79760	12.00%	0.178%
20	5.081	5.060	5.118	VV	5948	80323	12.09%	0.179%
21	5.149	5.118	5.168	VV	3235	44007	6.62%	0.098%
22	5.183	5.168	5.203	VV	2360	29284	4.41%	0.065%
23	5.215	5.203	5.227	VV	1528	15840	2.38%	0.035%
24	5.246	5.227	5.259	VV	3654	44289	6.67%	0.099%
25	5.274	5.259	5.302	VV	5664	69828	10.51%	0.156%
26	5.326	5.302	5.339	PV	7931	83147	12.51%	0.186%
27	5.354	5.339	5.379	VV	14950	167794	25.25%	0.375%
28	5.390	5.379	5.400	VV	2182	24273	3.65%	0.054%
29	5.410	5.400	5.429	VV	2018	21219	3.19%	0.047%
30	5.455	5.429	5.466	VV	1336	19366	2.91%	0.043%
31	5.487	5.466	5.500	VV	3364	44523	6.70%	0.099%
32	5.512	5.500	5.522	VV	2363	25039	3.77%	0.056%
33	5.529	5.522	5.535	VV	1935	14857	2.24%	0.033%
34	5.553	5.535	5.566	VV	3262	47829	7.20%	0.107%
35	5.582	5.566	5.598	VV	3809	51526	7.76%	0.115%
36	5.622	5.598	5.641	VV	2367	49399	7.43%	0.110%

					rters				
37	5.648	5.641	5.662	VV	1410	13183	1.98%	0.029%	
38	5.676	5.662	5.683	VV	1226	11815			
39	5.701	5.683	5.712	VV	9057	94189	14.12%	0.028%	
40	5.719	5.712	5.746	VV	6691	81599	12.12%	0.028%	
41	5.753	5.746	5.767	VV	1647	17294	2.87%	0.043%	
42	5.783	5.767	5.816	VV	1843	36957	4.13%	0.061%	
43	5.836	5.816	5.850	VV	1576	22292	3.36%	0.050%	
44	5.859	5.850	5.868	VV	1342	12730	1.92%	0.028%	
45	5.895	5.868	5.923	VV	12693	211606	31.85%	0.473%	
46	5.931	5.923	5.948	VV	3489	39483	5.94%	0.088%	
47	5.970	5.948	5.982	VV	3221	47262	7.11%	0.106%	
48	5.999	5.982	6.037	VV	13664	258724	38.94%	0.578%	
49	6.053	6.037	6.067	VV	7235	81415	12.25%	0.182%	
50	6.073	6.067	6.088	VV	3276	35074	5.28%	0.078%	
51	6.094	6.088	6.107	VV	1982	19086	2.87%	0.043%	
52	6.121	6.107	6.128	VV	2781	27453	4.13%	0.061%	
53	6.140	6.128	6.163	VV	3518	43065	6.48%	0.096%	
54	6.189	6.163	6.207	PV	4737	55845	8.41%	0.125%	
55	6.241	6.207	6.261	VV	6639	102058	15.36%	0.228%	
56	6.290	6.261	6.301	VV	4769	87170	13.12%	0.195%	
57	6.313	6.301	6.327	VV	5053	67688	10.19%	0.151%	
58	6.336	6.327	6.355	VV	3664	44663	6.72%	0.100%	
59	6.376	6.355	6.399	VV	4321	77730	11.70%	0.174%	
60	6.420	6.399	6.451	VV	8784	173255	26.08%	0.387%	
61	6.465	6.451	6.492	VV	5246	95885	14.43%	0.214%	
62	6.507	6.492	6.521	VV	7014	81975	12.34%	0.183%	
63	6.550	6.521	6.593	VV	5915	190309	28.64%	0.425%	
64	6.611	6.593	6.635	VV	5231	95735	14.41%	0.214%	
65	6.655	6.635	6.673	VV	6331	109997	16.56%	0.246%	
66	6.684	6.673	6.703	VV	4420	66149	9.96%	0.148%	
67	6.707	6.703	6.722	VV	2954	30835	4.64%	0.069%	
68	6.731	6.722	6.743	VV	2535	26395	3.97%	0.059%	
69	6.756	6.743	6.789	VV	3948	74098	11.15%	0.165%	
70	6.826	6.789	6.838	VV	4262	89686	13.50%	0.200%	
71	6.863	6.838	6.873	VV	5217	89724	13.50%	0.200%	
72	6.893	6.873	6.916	VV	21927	279274	42.03%	0.624%	
73	6.932	6.916	6.954	VV	8654	139059	20.93%	0.311%	
74	6.966	6.954	6.978	VV	4484	52761	7.94%	0.118%	
75	6.990	6.978	7.002	VV	3516	48214	7.26%	0.108%	
76	7.021	7.002	7.043	VV	9246	131884	19.85%	0.295%	
77	7.066	7.043	7.091	VV	9104	160739	24.19%	0.359%	
78	7.104	7.091	7.117	VV	5134	62537	9.41%	0.140%	
79	7.144	7.117	7.172	VV	10947	192504	28.97%	0.430%	
80	7.182	7.172	7.187	VV	3039	26597	4.00%	0.059%	
81	7.211	7.187	7.227	VV	5105	98999	14.90%	0.221%	
82	7.273	7.227	7.292	VV	9798	250182	37.65%	0.559%	
83	7.312	7.292	7.342	VV	13347	219482	33.03%	0.490%	
84	7.371	7.342	7.406	VV	31183	446276	67.17%	0.997%	
85	7.420	7.406	7.438	VV	6131	90246	13.58%	0.202%	
86	7.461	7.438	7.492	VV	28629	426075	64.13%	0.952%	
87	7.509	7.492	7.541	VV	28670	376751	56.70%	0.841%	
88	7.562	7.541	7.578	VV	8307	127063	19.12%	0.284%	
89	7.589	7.578	7.600	VV	5062	61474	9.25%	0.137%	

Instrument :

FID_G

ClientSampleId :

EX-10-TPH-3

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

90	7.610	7.600	7.624	VV	4764	65177	9.81%	0.146%
91	7.650	7.624	7.656	VV	6401	101796	18.34%	0.272%
92	7.665	7.656	7.713	VV	6858	184612	27.00%	0.401%
93	7.740	7.713	7.761	VV	7136	159442	24.49%	0.369%
94	7.774	7.761	7.792	VV	6741	107002	16.73%	0.248%
95	7.813	7.792	7.838	VV	5985	144152	22.11%	0.328%
96	7.863	7.838	7.893	VV	14554	265702	39.99%	0.593%
97	7.914	7.893	7.933	VV	7191	121833	18.34%	0.272%
98	7.951	7.933	7.961	VV	4275	62924	9.47%	0.141%
99	7.978	7.961	7.994	VV	7234	111175	16.73%	0.248%
100	8.029	7.994	8.045	VV	9560	205642	30.95%	0.459%
101	8.059	8.045	8.100	VV	6203	165119	24.85%	0.369%
102	8.121	8.100	8.138	VV	8531	147813	22.25%	0.330%
103	8.152	8.138	8.163	VV	6926	96243	14.49%	0.215%
104	8.172	8.163	8.193	VV	7111	105089	15.82%	0.235%
105	8.214	8.193	8.232	VV	8277	146904	22.11%	0.328%
106	8.270	8.232	8.290	VV	15467	316128	47.58%	0.706%
107	8.302	8.290	8.312	VV	9343	109745	16.52%	0.245%
108	8.320	8.312	8.335	VV	8705	108629	16.35%	0.243%
109	8.342	8.335	8.347	VV	5933	39338	5.92%	0.088%
110	8.368	8.347	8.373	VV	22860	231203	34.80%	0.516%
111	8.387	8.373	8.426	VV	37828	574894	86.53%	1.284%
112	8.443	8.426	8.461	VV	7997	139285	20.96%	0.311%
113	8.489	8.461	8.504	VV	35440	475535	71.57%	1.062%
114	8.517	8.504	8.543	VV	26214	354762	53.40%	0.792%
115	8.554	8.543	8.578	VV	7854	147981	22.27%	0.331%
116	8.617	8.578	8.629	VV	9668	225307	33.91%	0.503%
117	8.652	8.629	8.703	VV	15278	431121	64.89%	0.963%
118	8.730	8.703	8.750	VV	19754	322198	48.49%	0.720%
119	8.765	8.750	8.779	VV	11563	156510	23.56%	0.350%
120	8.788	8.779	8.804	VV	7171	94657	14.25%	0.211%
121	8.818	8.804	8.833	VV	7656	116051	17.47%	0.259%
122	8.857	8.833	8.884	VV	6811	179387	27.00%	0.401%
123	8.901	8.884	8.912	VV	5335	80831	12.17%	0.181%
124	8.931	8.912	8.944	VV	9381	138766	20.89%	0.310%
125	8.968	8.944	8.987	VV	10117	210433	31.67%	0.470%
126	8.992	8.987	9.009	VV	7000	82238	12.38%	0.184%
127	9.030	9.009	9.055	VV	16227	269824	40.61%	0.603%
128	9.113	9.055	9.133	VV	28037	627739	94.48%	1.402%
129	9.139	9.133	9.153	VV	7279	79101	11.91%	0.177%
130	9.163	9.153	9.175	VV	6329	75903	11.42%	0.170%
131	9.215	9.175	9.235	VV	18529	383683	57.75%	0.857%
132	9.251	9.235	9.274	VV	12996	222834	33.54%	0.498%
133	9.289	9.274	9.306	VV	8343	129462	19.49%	0.289%
134	9.340	9.306	9.356	VV	11669	254235	38.26%	0.568%
135	9.364	9.356	9.369	VV	7756	58556	8.81%	0.131%
136	9.386	9.369	9.403	VV	18982	254341	38.28%	0.568%
137	9.427	9.403	9.469	VV	20976	395662	59.55%	0.884%
138	9.487	9.469	9.511	VV	7315	152475	22.95%	0.341%
139	9.544	9.511	9.560	VV	16733	268498	40.41%	0.600%
140	9.575	9.560	9.593	VV	14284	178773	26.91%	0.399%
141	9.602	9.593	9.617	VV	5449	73017	10.99%	0.163%

Instrument :

FID_G

ClientSampleId :

EX-10-TPH-3

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024

Supervised By :Ankita Jodhani 11/18/2024

					Parameters			
142	9.661	9.617	9.665	VV	8971	170538	25.67%	0.381%
143	9.681	9.665	9.746	VV	17218	404936	60.43%	0.381%
144	9.765	9.746	9.780	VV	12851	198405	29.43%	0.381%
145	9.790	9.780	9.819	VV	11731	184230	27.79%	0.381%
146	9.847	9.819	9.900	VV	16986	428132	64.43%	0.412%
147	9.918	9.900	9.926	VV	8194	107494	16.00%	0.412%
148	9.943	9.926	9.958	VV	11642	184623	27.79%	0.412%
149	9.971	9.958	9.993	VV	11821	180546	27.17%	0.403%
150	10.010	9.993	10.025	VV	6055	106320	16.00%	0.237%
151	10.044	10.025	10.068	VV	19393	263014	39.59%	0.587%
152	10.093	10.068	10.113	VV	9192	195511	29.43%	0.437%
153	10.139	10.113	10.161	VV	10451	233183	35.10%	0.521%
154	10.183	10.161	10.228	VV	11167	303311	45.65%	0.677%
155	10.247	10.228	10.263	VV	6131	118420	17.82%	0.264%
156	10.287	10.263	10.322	VV	8035	199880	30.08%	0.446%
157	10.352	10.322	10.385	VV	8708	220743	33.22%	0.493%
158	10.409	10.385	10.439	VV	5529	154993	23.33%	0.346%
159	10.457	10.439	10.469	VV	5393	83303	12.54%	0.186%
160	10.474	10.469	10.492	VV	4574	58527	8.81%	0.131%
161	10.513	10.492	10.540	VV	11886	210945	31.75%	0.471%
162	10.571	10.540	10.599	VV	23700	410618	61.80%	0.917%
163	10.620	10.599	10.631	VV	9279	139431	20.99%	0.311%
164	10.648	10.631	10.672	VV	11982	222647	33.51%	0.497%
165	10.690	10.672	10.709	VV	12551	188008	28.30%	0.420%
166	10.720	10.709	10.741	VV	6750	104401	15.71%	0.233%
167	10.765	10.741	10.776	VV	8801	139386	20.98%	0.311%
168	10.783	10.776	10.807	VV	8134	124344	18.71%	0.278%
169	10.830	10.807	10.840	VV	8788	139946	21.06%	0.313%
170	10.848	10.840	10.880	VV	7946	168895	25.42%	0.377%
171	10.902	10.880	10.919	VV	7867	155596	23.42%	0.348%
172	10.936	10.919	10.954	VV	8082	145120	21.84%	0.324%
173	10.996	10.954	11.027	VV	34699	664409	100.00%	1.484%
174	11.044	11.027	11.064	VV	6345	126684	19.07%	0.283%
175	11.070	11.064	11.086	VV	4525	53931	8.12%	0.120%
176	11.134	11.086	11.148	VV	5726	173893	26.17%	0.388%
177	11.170	11.148	11.194	VV	18715	284514	42.82%	0.635%
178	11.201	11.194	11.223	VV	5239	77446	11.66%	0.173%
179	11.245	11.223	11.290	VV	15627	291932	43.94%	0.652%
180	11.315	11.290	11.339	VV	6453	140461	21.14%	0.314%
181	11.353	11.339	11.370	VV	3969	67769	10.20%	0.151%
182	11.391	11.370	11.414	VV	4116	99576	14.99%	0.222%
183	11.415	11.414	11.424	VV	3664	20544	3.09%	0.046%
184	11.458	11.424	11.464	VV	5858	106827	16.08%	0.239%
185	11.481	11.464	11.502	VV	7593	133179	20.04%	0.297%
186	11.526	11.502	11.548	VV	6360	143439	21.59%	0.320%
187	11.565	11.548	11.591	VV	6435	139555	21.00%	0.312%
188	11.599	11.591	11.612	VV	5107	58392	8.79%	0.130%
189	11.623	11.612	11.633	VV	4711	56503	8.50%	0.126%
190	11.653	11.633	11.677	VV	5961	132171	19.89%	0.295%
191	11.718	11.677	11.748	VV	18733	409193	61.59%	0.914%
192	11.768	11.748	11.804	VV	5170	127240	19.15%	0.284%
193	11.826	11.804	11.854	VV	7872	149930	22.57%	0.335%
194	11.864	11.854	11.880	VV	4192	60502	9.11%	0.135%

Instrument :

FID_G

ClientSampleId :

EX-10-TPH-3

Manual IntegrationsAPPROVED

 Reviewed By :Yogesh Patel 11/18/2024
 Supervised By :Ankita Jodhani 11/18/2024

					rters			
195	11.913	11.880	11.927	VV	4460	113217	17.04%	0.253%
196	11.934	11.927	11.949	VV	4172	52029		
197	11.975	11.949	11.989	VV	9854	155727	23.88%	0.325%
198	12.006	11.989	12.049	VV	11924	199034	29.98%	0.445%
199	12.071	12.049	12.083	VV	4922	77934	12.16%	0.180%
200	12.092	12.083	12.103	VV	4741	54261	26.31%	0.390%
201	12.124	12.103	12.140	VV	9321	145351	19.57%	0.290%
202	12.156	12.140	12.208	VV	7733	199204		
203	12.232	12.208	12.249	VV	3602	80793	11.98%	0.178%
204	12.278	12.249	12.299	VV	8591	174778	15.43%	0.229%
205	12.315	12.299	12.357	VV	5378	130027	7.39%	0.110%
206	12.377	12.357	12.393	VV	4777	79570	9.90%	0.147%
207	12.418	12.393	12.439	VV	4198	102548	13.96%	0.207%
208	12.447	12.439	12.462	VV	3900	49112		
209	12.479	12.462	12.491	VV	4663	65796	36.72%	0.545%
210	12.511	12.491	12.521	VV	6239	92725	14.89%	0.221%
211	12.540	12.521	12.567	VV	16156	243949	9.33%	0.138%
212	12.590	12.567	12.611	VV	4442	98955	16.37%	0.243%
213	12.624	12.611	12.639	VV	4116	62010	3.67%	0.054%
214	12.658	12.639	12.688	VV	4446	108733		
215	12.695	12.688	12.700	VV	3446	24371	17.33%	0.257%
216	12.723	12.700	12.749	VV	4926	115122	27.77%	0.412%
217	12.767	12.749	12.812	VV	7355	184496	4.75%	0.070%
218	12.821	12.812	12.830	VV	3096	31529	39.63%	0.588%
219	12.877	12.830	12.896	VV	12504	263302	16.01%	0.238%
220	12.913	12.896	12.927	VV	7001	106362		
221	12.941	12.927	12.964	VV	7128	115983	17.46%	0.259%
222	12.992	12.964	13.035	VV	9660	211556	31.84%	0.472%
223	13.052	13.035	13.065	VV	3166	51564	7.76%	0.115%
224	13.094	13.065	13.105	VV	3451	73833	11.11%	0.165%
225	13.122	13.105	13.143	VV	4517	78103	11.76%	0.174%
226	13.153	13.143	13.166	VV	2779	36971		
227	13.181	13.166	13.199	VV	3261	57003	5.56%	0.083%
228	13.212	13.199	13.228	VV	3221	53604	8.58%	0.127%
229	13.241	13.228	13.266	VV	3590	69587	8.07%	0.120%
230	13.290	13.266	13.343	VV	8027	185271	10.47%	0.155%
231	13.358	13.343	13.373	VV	3602	55362	27.89%	0.414%
232	13.386	13.373	13.411	VV	3951	79562		
233	13.439	13.411	13.457	VV	5698	123760	8.33%	0.124%
234	13.468	13.457	13.489	VV	4226	75812	11.97%	0.178%
235	13.501	13.489	13.522	VV	3959	64948	18.63%	0.276%
236	13.527	13.522	13.536	VV	2560	19854	11.41%	0.169%
237	13.567	13.536	13.600	VV	6269	182871	9.78%	0.145%
238	13.623	13.600	13.673	VV	7622	201135		
239	13.690	13.673	13.703	VV	5061	72208	2.99%	0.044%
240	13.726	13.703	13.755	VV	15113	243665	27.52%	0.408%
241	13.777	13.755	13.825	VV	6817	193026	30.27%	0.449%
242	13.843	13.825	13.855	VV	4020	68392	10.87%	0.161%
243	13.878	13.855	13.904	VV	6047	131797	36.67%	0.544%
244	13.926	13.904	13.932	VV	3626	54938		
245	13.958	13.932	13.980	VV	27226	377640	29.05%	0.431%
246	13.994	13.980	14.014	VV	6532	105438	10.29%	0.153%

Instrument :

FID_G

ClientSampleId :

EX-10-TPH-3

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024

Supervised By :Ankita Jodhani 11/18/2024

							Instrument : FID_G	
							ClientSampleId : EX-10-TPH-3	
rteres							Manual Integration	
247	14.026	14.014	14.041	VV	4816	71599	10.78%	0.160%
248	14.059	14.041	14.071	VV	5034	78766	11.24%	0.160%
249	14.091	14.071	14.122	VV	6319	139989	21.52%	0.160%
250	14.157	14.122	14.184	VV	6325	174251	26.82%	0.160%
							Reviewed By :Yogesh	
							Supervised By :Anshu	
251	14.197	14.184	14.215	VV	4519	74491	11.24%	0.147%
252	14.248	14.215	14.286	VV	3956	155259	23.05%	0.147%
253	14.291	14.286	14.319	VV	3621	66033	9.94%	0.147%
254	14.358	14.319	14.364	VV	4411	101408	15.26%	0.226%
255	14.379	14.364	14.402	VV	4404	91181	13.72%	0.204%
256	14.445	14.402	14.464	VV	4102	136854	20.60%	0.306%
257	14.470	14.464	14.479	VV	3808	33379	5.02%	0.075%
258	14.501	14.479	14.518	VV	5159	100741	15.16%	0.225%
259	14.531	14.518	14.537	VV	4148	45181	6.80%	0.101%
260	14.550	14.537	14.561	VV	4223	56181	8.46%	0.125%
261	14.574	14.561	14.578	VV	4491	43344	6.52%	0.097%
262	14.594	14.578	14.599	VV	4627	55460	8.35%	0.124%
263	14.610	14.599	14.633	VV	4717	87957	13.24%	0.196%
264	14.663	14.633	14.679	VV	5431	126126	18.98%	0.282%
265	14.704	14.679	14.733	VV	5621	154399	23.24%	0.345%
266	14.742	14.733	14.752	VV	4526	49450	7.44%	0.110%
267	14.764	14.752	14.779	VV	4687	70820	10.66%	0.158%
268	14.801	14.779	14.809	VV	5110	87094	13.11%	0.195%
269	14.822	14.809	14.842	VV	6079	108596	16.34%	0.243%
270	14.867	14.842	14.904	VV	10645	240800	36.24%	0.538%
271	14.910	14.904	14.919	VV	4167	36362	5.47%	0.081%
272	14.925	14.919	14.937	VV	4065	42757	6.44%	0.095%
273	14.958	14.937	14.964	VV	4665	71789	10.80%	0.160%
274	14.984	14.964	15.007	VV	5020	115939	17.45%	0.259%
275	15.040	15.007	15.061	VV	17076	307036	46.21%	0.686%
276	15.081	15.061	15.107	VV	21835	329438	49.58%	0.736%
277	15.116	15.107	15.121	VV	4331	35737	5.38%	0.080%
278	15.168	15.121	15.185	VV	6226	194747	29.31%	0.435%
279	15.207	15.185	15.224	VV	7155	131101	19.73%	0.293%
280	15.243	15.224	15.273	VV	6866	166305	25.03%	0.371%
281	15.280	15.273	15.285	VV	4925	34727	5.23%	0.078%
282	15.292	15.285	15.297	VV	4928	34271	5.16%	0.077%
283	15.304	15.297	15.312	VV	5002	43871	6.60%	0.098%
284	15.322	15.312	15.329	VV	5005	48881	7.36%	0.109%
285	15.335	15.329	15.341	VV	5270	36278	5.46%	0.081%
286	15.378	15.341	15.433	VV	8480	316671	47.66%	0.707%
287	15.482	15.433	15.533	VV	5653	283823	42.72%	0.634%
288	15.544	15.533	15.565	VV	4659	85276	12.83%	0.190%
289	15.587	15.565	15.594	VV	4841	81022	12.19%	0.181%
290	15.623	15.594	15.652	VV	8076	216682	32.61%	0.484%
291	15.675	15.652	15.701	VV	6199	165725	24.94%	0.370%
292	15.712	15.701	15.719	VV	5189	52832	7.95%	0.118%
293	15.726	15.719	15.734	VV	5161	45734	6.88%	0.102%
294	15.739	15.734	15.742	VV	4915	24095	3.63%	0.054%
295	15.764	15.742	15.808	VV	7702	237180	35.70%	0.530%
296	15.811	15.808	15.815	VV	5341	23073	3.47%	0.052%
297	15.845	15.815	15.867	VV	7785	190996	28.75%	0.427%
298	15.879	15.867	15.895	VV	5734	93303	14.04%	0.208%
299	15.900	15.895	15.926	VV	5561	94448	14.22%	0.211%

300	15.932	15.926	15.945	VV	5030	55039	8.28%	0.123%
301	15.960	15.945	15.977	VV	5522	97126	14.00%	0.123%
302	16.008	15.977	16.032	VV	6074	190531	28.00%	0.123%
303	16.043	16.032	16.052	VV	5513	64295	9.00%	0.123%
304	16.079	16.052	16.086	VV	6313	117877	17.00%	0.123%
305	16.095	16.086	16.114	VV	6478	103480	15.00%	0.123%
306	16.131	16.114	16.156	VV	6083	142792	21.49%	0.319%
307	16.165	16.156	16.189	VV	5661	106412	16.02%	0.238%
308	16.222	16.189	16.236	VV	6265	161442	24.30%	0.361%
309	16.240	16.236	16.245	VV	5724	31188	4.69%	0.070%
310	16.266	16.245	16.292	VV	8667	202756	30.52%	0.453%
311	16.299	16.292	16.309	VV	6310	58974	8.88%	0.132%
312	16.316	16.309	16.323	VV	5985	49120	7.39%	0.110%
313	16.329	16.323	16.335	VV	5904	42479	6.39%	0.095%
314	16.350	16.335	16.380	VV	6183	155030	23.33%	0.346%
315	16.387	16.380	16.405	VV	5765	83477	12.56%	0.186%
316	16.418	16.405	16.422	VV	5758	57181	8.61%	0.128%
317	16.446	16.422	16.469	VV	6946	181409	27.30%	0.405%
318	16.476	16.469	16.497	VV	7057	110572	16.64%	0.247%
319	16.524	16.497	16.530	VV	6408	122064	18.37%	0.273%
320	16.548	16.530	16.559	VV	6993	113042	17.01%	0.252%
321	16.562	16.559	16.575	VV	6904	64926	9.77%	0.145%
322	16.594	16.575	16.616	VV	6964	167533	25.22%	0.374%
323	16.649	16.616	16.687	VV	8109	291028	43.80%	0.650%
324	16.728	16.687	16.733	VV	8531	197068	29.66%	0.440%
325	16.752	16.733	16.780	VV	9819	237507	35.75%	0.530%
326	16.811	16.780	16.821	VV	6987	161960	24.38%	0.362%
327	16.831	16.821	16.837	VV	7184	68920	10.37%	0.154%
328	16.841	16.837	16.857	VV	7236	86986	13.09%	0.194%
329	16.870	16.857	16.888	VV	7805	137989	20.77%	0.308%
330	16.895	16.888	16.904	VV	7764	68504	10.31%	0.153%
331	16.909	16.904	16.931	VV	7669	118861	17.89%	0.265%
332	16.954	16.931	16.961	VV	7942	138978	20.92%	0.310%
333	16.967	16.961	16.971	VV	7949	44638	6.72%	0.100%
334	16.978	16.971	16.997	VV	8321	125176	18.84%	0.280%
335	17.026	16.997	17.064	VV	9442	331577	49.91%	0.741%
336	17.081	17.064	17.085	VV	8254	100419	15.11%	0.224%
337	17.106	17.085	17.134	VV	9147	234053	35.23%	0.523%
338	17.153	17.134	17.157	VV	7629	101884	15.33%	0.228%
339	17.163	17.157	17.174	VV	7830	77629	11.68%	0.173%
340	17.178	17.174	17.184	VV	7529	43639	6.57%	0.097%
341	17.218	17.184	17.243	VV	11804	336403	50.63%	0.751%
342	17.247	17.243	17.253	VV	9270	57818	8.70%	0.129%
343	17.267	17.253	17.303	VV	10319	262946	39.58%	0.587%
344	17.309	17.303	17.312	VV	7913	40582	6.11%	0.091%
345	17.333	17.312	17.337	VV	8485	126036	18.97%	0.281%

Sum of corrected areas: 44773798

FG111324.M Mon Nov 18 06:45:30 2024

Instrument :

FID_G

ClientSampleId :

EX-10-TPH-3

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024

Supervised By :Ankita Jodhani 11/18/2024

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-1		SDG No.:	P4839	
Lab Sample ID:	P4839-17		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	83.9	Decanted:
Sample Wt/Vol:	30.07	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	Diesel Range Organics	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014856.D	1	11/14/24 13:15	11/18/24 17:12	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	8570		220	1980	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.4		37 - 130	62%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014856.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 17:12
Operator : YP\AJ
Sample : P4839-17
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-4-TPH-1

Integration File: autoint1.e
Quant Time: Nov 19 01:32:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.041	1388001	12.374 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

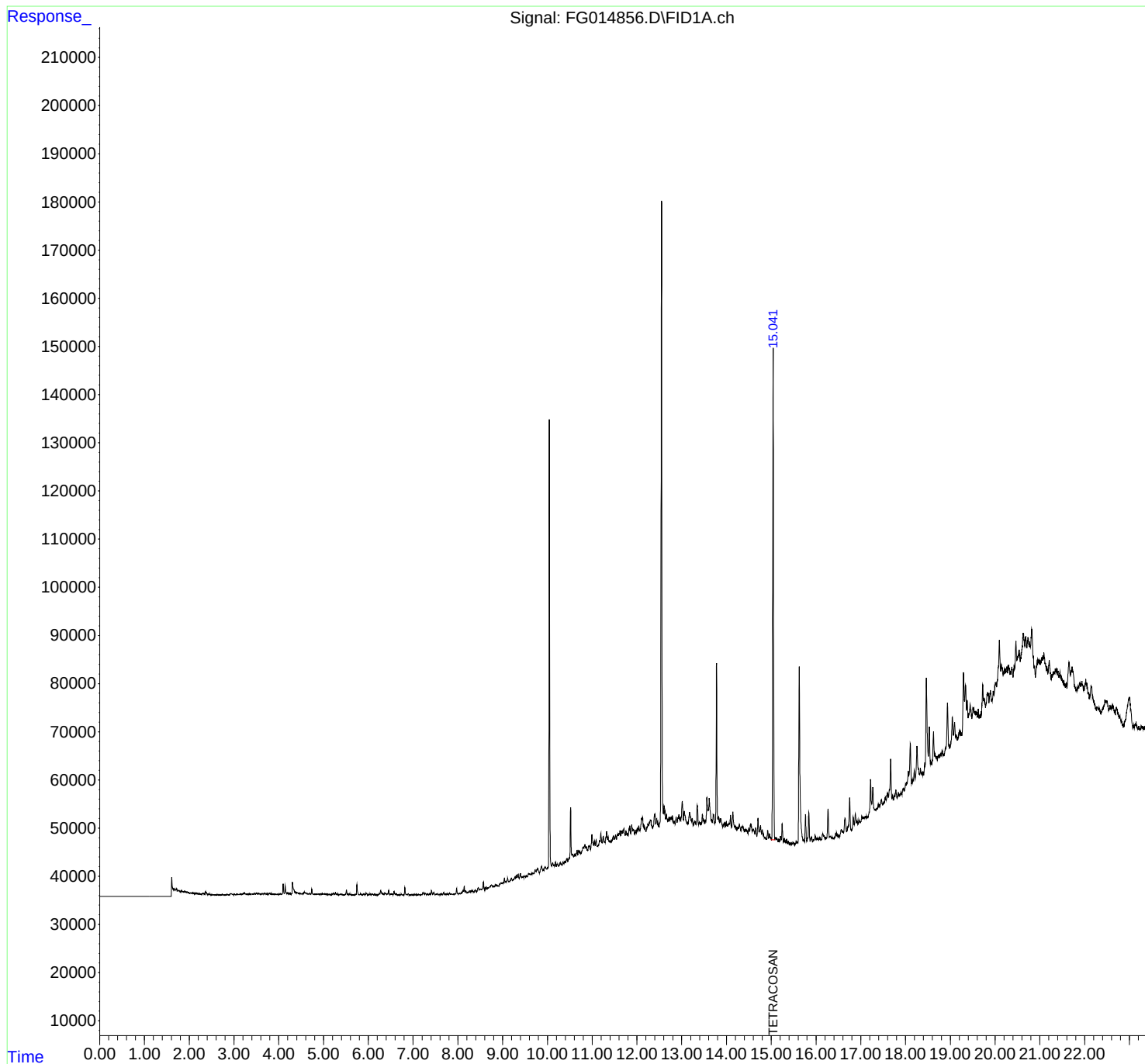
(m)=manual int.

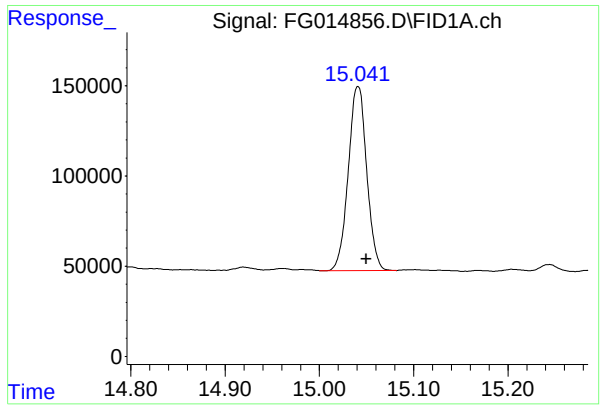
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014856.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 17:12
Operator : YP\AJ
Sample : P4839-17
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-4-TPH-1

Integration File: autoint1.e
Quant Time: Nov 19 01:32:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.041 min
Delta R.T.: -0.009 min
Response: 1388001
Conc: 12.37 ug/ml

Instrument :
FID_G
ClientSampleId :
EX-4-TPH-1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014856.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 17:12
Sample : P4839-17
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.411	4.400	4.433	BV	70	410	0.02%	0.001%
2	4.436	4.433	4.446	PV	60	240	0.01%	0.001%
3	4.450	4.446	4.456	VV	91	393	0.02%	0.001%
4	4.465	4.456	4.473	PV	90	583	0.03%	0.002%
5	4.478	4.473	4.493	VV	110	852	0.04%	0.003%
6	4.519	4.493	4.535	PV	144	2129	0.10%	0.007%
7	4.539	4.535	4.543	VV	135	488	0.02%	0.002%
8	4.551	4.543	4.556	VV	164	1039	0.05%	0.004%
9	4.570	4.556	4.585	VV	501	5765	0.27%	0.020%
10	4.593	4.585	4.605	VV	322	2967	0.14%	0.010%
11	4.613	4.605	4.640	VV	277	3713	0.17%	0.013%
12	4.643	4.640	4.647	VV	141	512	0.02%	0.002%
13	4.652	4.647	4.661	VV	143	954	0.04%	0.003%
14	4.668	4.661	4.674	VV	116	621	0.03%	0.002%
15	4.697	4.674	4.717	VV	225	3012	0.14%	0.011%
16	4.738	4.717	4.772	VV	1148	12270	0.57%	0.043%
17	4.776	4.772	4.784	VV	112	618	0.03%	0.002%
18	4.788	4.784	4.813	VV	93	1208	0.06%	0.004%
19	4.818	4.813	4.825	VV	116	575	0.03%	0.002%
20	4.828	4.825	4.838	VV	108	475	0.02%	0.002%
21	4.844	4.838	4.851	PV	115	563	0.03%	0.002%
22	4.856	4.851	4.869	VV	163	1104	0.05%	0.004%
23	4.889	4.869	4.904	VV	181	2336	0.11%	0.008%
24	4.919	4.904	4.930	VV	156	1587	0.07%	0.006%
25	4.948	4.930	4.976	VV	230	5051	0.24%	0.018%
26	4.984	4.976	5.009	VV	196	3019	0.14%	0.011%
27	5.018	5.009	5.027	VV	218	1951	0.09%	0.007%
28	5.033	5.027	5.060	VV	213	2972	0.14%	0.010%
29	5.078	5.060	5.091	VV	185	2197	0.10%	0.008%
30	5.097	5.091	5.120	VV	146	1755	0.08%	0.006%
31	5.128	5.120	5.136	VV	134	716	0.03%	0.003%
32	5.148	5.136	5.153	VV	104	748	0.03%	0.003%
33	5.158	5.153	5.165	VV	88	488	0.02%	0.002%
34	5.179	5.165	5.187	VV	137	1034	0.05%	0.004%
35	5.190	5.187	5.197	VV	91	486	0.02%	0.002%
36	5.228	5.197	5.253	VV	428	7087	0.33%	0.025%

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37	5.266	5.253	5.294	VV	562	5617	0.26%	0.020%
38	5.305	5.294	5.312	VV	153	1185	0.06%	0.004%
39	5.317	5.312	5.322	VV	178	838	0.04%	0.003%
40	5.326	5.322	5.343	VV	210	1205	0.06%	0.004%
41	5.351	5.343	5.380	VV	174	2196	0.10%	0.008%
42	5.391	5.380	5.411	VV	290	3259	0.15%	0.011%
43	5.417	5.411	5.423	VV	104	600	0.03%	0.002%
44	5.427	5.423	5.437	VV	114	722	0.03%	0.003%
45	5.440	5.437	5.456	VV	89	773	0.04%	0.003%
46	5.463	5.456	5.472	VV	92	681	0.03%	0.002%
47	5.513	5.472	5.533	VV	1110	13927	0.65%	0.049%
48	5.548	5.533	5.569	VV	285	3947	0.18%	0.014%
49	5.585	5.569	5.611	VV	298	3882	0.18%	0.014%
50	5.616	5.611	5.626	VV	151	677	0.03%	0.002%
51	5.629	5.626	5.636	VV	98	292	0.01%	0.001%
52	5.652	5.636	5.660	VV	82	638	0.03%	0.002%
53	5.666	5.660	5.670	PV	87	298	0.01%	0.001%
54	5.674	5.670	5.678	VV	95	282	0.01%	0.001%
55	5.682	5.678	5.687	VV	69	207	0.01%	0.001%
56	5.708	5.687	5.716	VV	210	2174	0.10%	0.008%
57	5.746	5.716	5.787	VV	2260	30090	1.41%	0.106%
58	5.789	5.787	5.807	VV	181	1182	0.06%	0.004%
59	5.820	5.807	5.858	VV	273	5131	0.24%	0.018%
60	5.861	5.858	5.869	VV	129	606	0.03%	0.002%
61	5.896	5.869	5.927	VV	292	5999	0.28%	0.021%
62	5.952	5.927	5.980	VV	503	8719	0.41%	0.031%
63	5.983	5.980	5.991	VV	162	845	0.04%	0.003%
64	6.001	5.991	6.007	VV	170	1436	0.07%	0.005%
65	6.011	6.007	6.020	VV	140	945	0.04%	0.003%
66	6.041	6.020	6.063	VV	297	4605	0.22%	0.016%
67	6.087	6.063	6.116	VV	353	6200	0.29%	0.022%
68	6.121	6.116	6.127	VV	139	767	0.04%	0.003%
69	6.141	6.127	6.170	VV	170	3009	0.14%	0.011%
70	6.183	6.170	6.212	VV	194	2900	0.14%	0.010%
71	6.245	6.212	6.259	VV	452	6355	0.30%	0.022%
72	6.277	6.259	6.319	VV	1041	19589	0.92%	0.069%
73	6.332	6.319	6.353	VV	319	5389	0.25%	0.019%
74	6.369	6.353	6.412	VV	512	10926	0.51%	0.038%
75	6.456	6.412	6.480	VV	1041	17006	0.80%	0.060%
76	6.511	6.480	6.522	VV	305	5441	0.25%	0.019%
77	6.528	6.522	6.556	VV	291	4777	0.22%	0.017%
78	6.576	6.556	6.594	VV	853	11115	0.52%	0.039%
79	6.602	6.594	6.617	VV	319	3263	0.15%	0.011%
80	6.627	6.617	6.647	VV	277	3155	0.15%	0.011%
81	6.658	6.647	6.668	VV	123	1359	0.06%	0.005%
82	6.677	6.668	6.707	VV	120	1925	0.09%	0.007%
83	6.710	6.707	6.716	VV	239	585	0.03%	0.002%
84	6.738	6.716	6.760	VV	235	3021	0.14%	0.011%
85	6.779	6.760	6.784	VV	133	1104	0.05%	0.004%
86	6.787	6.784	6.793	VV	69	276	0.01%	0.001%
87	6.818	6.793	6.842	PV	1636	17440	0.82%	0.061%
88	6.846	6.842	6.861	VV	203	1819	0.09%	0.006%
89	6.868	6.861	6.875	VV	176	1245	0.06%	0.004%

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90	6.892	6.875	6.918	VV	331	4594	0.22%	0.016%
91	6.932	6.918	6.944	VV	152	1203	0.06%	0.004%
92	6.969	6.944	6.987	VV	199	2684	0.13%	0.009%
93	6.998	6.987	7.002	VV	136	610	0.03%	0.002%
94	7.007	7.002	7.014	VV	160	907	0.04%	0.003%
95	7.020	7.014	7.047	VV	219	2459	0.12%	0.009%
96	7.058	7.047	7.083	VV	163	2499	0.12%	0.009%
97	7.087	7.083	7.091	VV	124	375	0.02%	0.001%
98	7.096	7.091	7.104	VV	97	559	0.03%	0.002%
99	7.120	7.104	7.160	VV	221	4503	0.21%	0.016%
100	7.164	7.160	7.177	PV	81	471	0.02%	0.002%
101	7.197	7.177	7.201	VV	152	1488	0.07%	0.005%
102	7.219	7.201	7.255	VV	590	11388	0.53%	0.040%
103	7.273	7.255	7.295	VV	400	6549	0.31%	0.023%
104	7.300	7.295	7.306	VV	191	1112	0.05%	0.004%
105	7.315	7.306	7.340	VV	262	3505	0.16%	0.012%
106	7.343	7.340	7.348	VV	160	507	0.02%	0.002%
107	7.374	7.348	7.393	VV	373	5920	0.28%	0.021%
108	7.413	7.393	7.445	VV	945	13880	0.65%	0.049%
109	7.462	7.445	7.493	VV	597	8320	0.39%	0.029%
110	7.513	7.493	7.536	PV	236	3630	0.17%	0.013%
111	7.554	7.536	7.577	VV	337	3722	0.17%	0.013%
112	7.586	7.577	7.597	VV	113	1009	0.05%	0.004%
113	7.601	7.597	7.606	VV	107	431	0.02%	0.002%
114	7.610	7.606	7.616	VV	139	625	0.03%	0.002%
115	7.628	7.616	7.633	VV	147	1202	0.06%	0.004%
116	7.637	7.633	7.665	VV	182	1831	0.09%	0.006%
117	7.685	7.665	7.708	VV	548	6392	0.30%	0.022%
118	7.720	7.708	7.743	VV	173	1951	0.09%	0.007%
119	7.757	7.743	7.784	VV	244	2741	0.13%	0.010%
120	7.789	7.784	7.794	VV	70	317	0.01%	0.001%
121	7.808	7.794	7.851	VV	304	5134	0.24%	0.018%
122	7.864	7.851	7.892	VV	141	1731	0.08%	0.006%
123	7.916	7.892	7.927	PV	132	1891	0.09%	0.007%
124	7.941	7.927	7.947	VV	164	1541	0.07%	0.005%
125	7.974	7.947	8.009	VV	1239	15097	0.71%	0.053%
126	8.028	8.009	8.054	VV	218	2862	0.13%	0.010%
127	8.069	8.054	8.082	PV	212	2221	0.10%	0.008%
128	8.116	8.082	8.127	VV	657	10546	0.49%	0.037%
129	8.143	8.127	8.160	VV	1525	17634	0.83%	0.062%
130	8.177	8.160	8.203	VV	569	8186	0.38%	0.029%
131	8.223	8.203	8.239	VV	233	2472	0.12%	0.009%
132	8.261	8.239	8.279	VV	397	5304	0.25%	0.019%
133	8.291	8.279	8.308	VV	410	5576	0.26%	0.020%
134	8.334	8.308	8.356	VV	403	7595	0.36%	0.027%
135	8.392	8.356	8.425	PV	518	8326	0.39%	0.029%
136	8.459	8.425	8.475	PV	838	15886	0.74%	0.056%
137	8.494	8.475	8.503	VV	497	7165	0.34%	0.025%
138	8.510	8.503	8.528	VV	448	6508	0.30%	0.023%
139	8.540	8.528	8.544	VV	461	3964	0.19%	0.014%
140	8.571	8.544	8.602	VV	1938	30323	1.42%	0.106%
141	8.633	8.602	8.656	VV	683	15672	0.73%	0.055%

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142	8.672	8.656	8.685	VV	660	8058	0.38%	0.028%
143	8.752	8.685	8.781	VV	978	42441	1.99%	0.149%
144	8.799	8.781	8.823	VV	708	15194	0.71%	0.053%
145	8.837	8.823	8.850	VV	1038	13462	0.63%	0.047%
146	8.860	8.850	8.894	VV	858	18637	0.87%	0.065%
147	8.904	8.894	8.917	VV	621	7667	0.36%	0.027%
148	8.934	8.917	8.943	VV	1009	12485	0.58%	0.044%
149	8.967	8.943	8.989	VV	1176	29198	1.37%	0.102%
150	9.009	8.989	9.018	VV	1156	18477	0.86%	0.065%
151	9.041	9.018	9.058	VV	2029	36500	1.71%	0.128%
152	9.070	9.058	9.082	VV	1339	18129	0.85%	0.064%
153	9.113	9.082	9.139	VV	1917	49120	2.30%	0.172%
154	9.144	9.139	9.155	VV	1196	11000	0.51%	0.039%
155	9.199	9.155	9.217	VV	1817	54839	2.57%	0.192%
156	9.240	9.217	9.254	VV	1520	31924	1.49%	0.112%
157	9.275	9.254	9.290	VV	1930	36912	1.73%	0.130%
158	9.313	9.290	9.327	VV	2289	43995	2.06%	0.154%
159	9.347	9.327	9.373	VV	2436	53390	2.50%	0.187%
160	9.399	9.373	9.440	VV	2524	76082	3.56%	0.267%
161	9.457	9.440	9.479	VV	1863	40239	1.88%	0.141%
162	9.498	9.479	9.502	VV	1776	22829	1.07%	0.080%
163	9.508	9.502	9.517	VV	1789	15375	0.72%	0.054%
164	9.535	9.517	9.554	VV	1897	37667	1.76%	0.132%
165	9.580	9.554	9.599	VV	2282	52883	2.48%	0.186%
166	9.611	9.599	9.626	VV	2132	33108	1.55%	0.116%
167	9.664	9.626	9.668	VV	2216	53061	2.48%	0.186%
168	9.674	9.668	9.683	VV	2200	18150	0.85%	0.064%
169	9.690	9.683	9.696	VV	2147	17217	0.81%	0.060%
170	9.725	9.696	9.753	VV	2800	81049	3.79%	0.284%
171	9.765	9.753	9.770	VV	2761	27603	1.29%	0.097%
172	9.786	9.770	9.822	VV	3052	80196	3.75%	0.281%
173	9.870	9.822	9.894	VV	3393	118965	5.57%	0.417%
174	9.902	9.894	9.918	VV	2606	36330	1.70%	0.127%
175	9.941	9.918	9.949	VV	3083	52149	2.44%	0.183%
176	9.956	9.949	9.986	VV	3088	62113	2.91%	0.218%
177	9.996	9.986	10.005	VV	2800	32232	1.51%	0.113%
178	10.044	10.005	10.096	VV	95791	1133912	53.07%	3.978%
179	10.117	10.096	10.154	VV	3676	115669	5.41%	0.406%
180	10.160	10.154	10.165	VV	3180	21086	0.99%	0.074%
181	10.180	10.165	10.196	VV	3832	62422	2.92%	0.219%
182	10.215	10.196	10.220	VV	3294	44931	2.10%	0.158%
183	10.229	10.220	10.250	VV	3342	55149	2.58%	0.193%
184	10.286	10.250	10.332	VV	3565	154214	7.22%	0.541%
185	10.347	10.332	10.360	VV	3564	56321	2.64%	0.198%
186	10.365	10.360	10.369	VV	3287	17374	0.81%	0.061%
187	10.389	10.369	10.398	VV	3641	59450	2.78%	0.209%
188	10.404	10.398	10.408	VV	3510	22357	1.05%	0.078%
189	10.434	10.408	10.447	VV	4200	89810	4.20%	0.315%
190	10.452	10.447	10.458	VV	3691	23824	1.12%	0.084%
191	10.484	10.458	10.493	VV	4276	83944	3.93%	0.295%
192	10.519	10.493	10.546	VV	14691	245348	11.48%	0.861%
193	10.563	10.546	10.587	VV	4960	116357	5.45%	0.408%
194	10.615	10.587	10.634	VV	4905	128410	6.01%	0.451%

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195	10.664	10.634	10.680	VV	5563	137159	6.42%	0.481%
196	10.694	10.680	10.712	VV	5413	98161	4.59%	0.344%
197	10.720	10.712	10.743	VV	5324	95777	4.48%	0.336%
198	10.747	10.743	10.751	VV	4920	23521	1.10%	0.083%
199	10.800	10.751	10.814	VV	6067	206085	9.65%	0.723%
200	10.836	10.814	10.859	VV	6469	165695	7.76%	0.581%
201	10.874	10.859	10.891	VV	6026	108412	5.07%	0.380%
202	10.925	10.891	10.961	VV	6169	240014	11.23%	0.842%
203	10.995	10.961	11.038	VV	8401	311963	14.60%	1.095%
204	11.051	11.038	11.071	VV	6970	127573	5.97%	0.448%
205	11.089	11.071	11.121	VV	7155	188713	8.83%	0.662%
206	11.126	11.121	11.130	VV	5780	30849	1.44%	0.108%
207	11.169	11.130	11.178	VV	6998	181690	8.50%	0.637%
208	11.196	11.178	11.225	VV	8395	204557	9.57%	0.718%
209	11.249	11.225	11.278	VV	7652	219720	10.28%	0.771%
210	11.323	11.278	11.342	VV	8534	278082	13.02%	0.976%
211	11.357	11.342	11.384	VV	7354	175177	8.20%	0.615%
212	11.390	11.384	11.395	VV	6570	42039	1.97%	0.147%
213	11.403	11.395	11.419	VV	6449	91053	4.26%	0.319%
214	11.430	11.419	11.441	VV	6564	85692	4.01%	0.301%
215	11.474	11.441	11.491	VV	7458	209295	9.80%	0.734%
216	11.497	11.491	11.503	VV	6873	47604	2.23%	0.167%
217	11.523	11.503	11.546	VV	7594	183607	8.59%	0.644%
218	11.566	11.546	11.586	VV	7679	175838	8.23%	0.617%
219	11.601	11.586	11.608	VV	7800	102495	4.80%	0.360%
220	11.622	11.608	11.636	VV	8349	131343	6.15%	0.461%
221	11.656	11.636	11.672	VV	8253	165182	7.73%	0.580%
222	11.677	11.672	11.686	VV	8073	68362	3.20%	0.240%
223	11.709	11.686	11.741	VV	8663	263119	12.32%	0.923%
224	11.758	11.741	11.775	VV	8016	154304	7.22%	0.541%
225	11.793	11.775	11.803	VV	7452	123997	5.80%	0.435%
226	11.822	11.803	11.829	VV	8368	119954	5.61%	0.421%
227	11.841	11.829	11.862	VV	9039	159503	7.47%	0.560%
228	11.884	11.862	11.902	VV	9161	203085	9.51%	0.713%
229	11.912	11.902	11.926	VV	8205	116098	5.43%	0.407%
230	11.931	11.926	11.947	VV	7976	97942	4.58%	0.344%
231	11.979	11.947	11.988	VV	7856	184810	8.65%	0.648%
232	12.008	11.988	12.018	VV	8309	139091	6.51%	0.488%
233	12.042	12.018	12.065	VV	8691	231537	10.84%	0.812%
234	12.106	12.065	12.113	VV	10285	257231	12.04%	0.903%
235	12.127	12.113	12.144	VV	10341	180688	8.46%	0.634%
236	12.158	12.144	12.178	VV	8734	168664	7.89%	0.592%
237	12.184	12.178	12.205	VV	8094	125575	5.88%	0.441%
238	12.217	12.205	12.222	VV	8093	78121	3.66%	0.274%
239	12.250	12.222	12.260	VV	8827	195525	9.15%	0.686%
240	12.281	12.260	12.288	VV	9193	147801	6.92%	0.519%
241	12.303	12.288	12.348	VV	9597	323524	15.14%	1.135%
242	12.352	12.348	12.360	VV	8106	56064	2.62%	0.197%
243	12.395	12.360	12.422	VV	10706	352067	16.48%	1.235%
244	12.441	12.422	12.490	VV	9716	357690	16.74%	1.255%
245	12.551	12.490	12.592	VV	137743	2136546	100.00%	7.496%
246	12.605	12.592	12.618	VV	12188	173453	8.12%	0.609%

rteres								
247	12.628	12.618	12.643	VV	10990	156881	7.34%	0.550%
248	12.657	12.643	12.688	VV	10268	259035	12.12%	0.909%
249	12.721	12.688	12.737	VV	9671	266591	12.48%	0.935%
250	12.750	12.737	12.755	VV	9542	99504	4.66%	0.349%
251	12.766	12.755	12.780	VV	9537	139014	6.51%	0.488%
252	12.791	12.780	12.817	VV	9758	204235	9.56%	0.717%
253	12.833	12.817	12.854	VV	8628	182781	8.55%	0.641%
254	12.876	12.854	12.897	VV	9368	228679	10.70%	0.802%
255	12.935	12.897	12.954	VV	9821	309488	14.49%	1.086%
256	12.966	12.954	12.980	VV	9210	138192	6.47%	0.485%
257	13.013	12.980	13.038	VV	12407	358703	16.79%	1.259%
258	13.058	13.038	13.116	VV	10391	419699	19.64%	1.473%
259	13.129	13.116	13.142	VV	7856	120496	5.64%	0.423%
260	13.176	13.142	13.223	VV	9994	428163	20.04%	1.502%
261	13.234	13.223	13.271	VV	8615	228071	10.67%	0.800%
262	13.298	13.271	13.316	VV	7940	206867	9.68%	0.726%
263	13.348	13.316	13.373	VV	11189	304617	14.26%	1.069%
264	13.399	13.373	13.413	VV	7620	177405	8.30%	0.622%
265	13.425	13.413	13.437	VV	7321	103338	4.84%	0.363%
266	13.462	13.437	13.477	VV	9158	195287	9.14%	0.685%
267	13.486	13.477	13.511	VV	8008	156681	7.33%	0.550%
268	13.562	13.511	13.586	VV	12449	415340	19.44%	1.457%
269	13.591	13.586	13.597	VV	9966	64311	3.01%	0.226%
270	13.615	13.597	13.659	VV	12321	374988	17.55%	1.316%
271	13.665	13.659	13.683	VV	7817	109122	5.11%	0.383%
272	13.704	13.683	13.735	VV	8766	249447	11.68%	0.875%
273	13.741	13.735	13.748	VV	7160	54012	2.53%	0.190%
274	13.778	13.748	13.812	VV	40121	653679	30.60%	2.294%
275	13.823	13.812	13.853	VV	8069	188751	8.83%	0.662%
276	13.871	13.853	13.914	VV	7816	253460	11.86%	0.889%
277	13.946	13.914	13.950	VV	6647	134635	6.30%	0.472%
278	13.955	13.950	13.975	VV	6677	98236	4.60%	0.345%
279	13.995	13.975	14.002	VV	6564	103660	4.85%	0.364%
280	14.007	14.002	14.021	VV	6332	69146	3.24%	0.243%
281	14.026	14.021	14.031	VV	6209	35271	1.65%	0.124%
282	14.042	14.031	14.050	VV	6323	70964	3.32%	0.249%
283	14.056	14.050	14.060	VV	6408	39835	1.86%	0.140%
284	14.065	14.060	14.072	VV	6457	45769	2.14%	0.161%
285	14.090	14.072	14.112	VV	8156	162345	7.60%	0.570%
286	14.142	14.112	14.179	VV	8717	273714	12.81%	0.960%
287	14.188	14.179	14.210	VV	5713	101102	4.73%	0.355%
288	14.225	14.210	14.230	VV	5367	62635	2.93%	0.220%
289	14.246	14.230	14.252	VV	5294	69265	3.24%	0.243%
290	14.262	14.252	14.270	VV	5410	56573	2.65%	0.198%
291	14.290	14.270	14.322	VV	6008	164841	7.72%	0.578%
292	14.354	14.322	14.360	VV	5489	119292	5.58%	0.419%
293	14.364	14.360	14.402	VV	5277	121111	5.67%	0.425%
294	14.415	14.402	14.424	VV	4721	58988	2.76%	0.207%
295	14.432	14.424	14.439	VV	4751	40959	1.92%	0.144%
296	14.444	14.439	14.470	VV	4651	78571	3.68%	0.276%
297	14.473	14.470	14.482	VV	4064	28652	1.34%	0.101%
298	14.500	14.482	14.513	VV	4925	85102	3.98%	0.299%
299	14.538	14.513	14.584	VV	5775	205381	9.61%	0.721%

					rteres			
300	14.602	14.584	14.634	VV	4503	124336	5.82%	0.436%
301	14.651	14.634	14.677	VV	4696	100280	4.69%	0.352%
302	14.703	14.677	14.725	VV	6703	136342	6.38%	0.478%
303	14.731	14.725	14.736	VV	3930	25442	1.19%	0.089%
304	14.759	14.736	14.782	VV	5019	118169	5.53%	0.415%
305	14.799	14.782	14.816	VV	4085	72650	3.40%	0.255%
306	14.821	14.816	14.850	VV	3162	55777	2.61%	0.196%
307	14.853	14.850	14.859	VV	2489	13677	0.64%	0.048%
308	14.864	14.859	14.888	VV	2478	38193	1.79%	0.134%
309	14.919	14.888	14.941	VV	3835	86892	4.07%	0.305%
310	14.962	14.941	14.974	VV	3007	51676	2.42%	0.181%
311	14.981	14.974	15.002	VV	2412	36157	1.69%	0.127%
312	15.041	15.002	15.082	VV	103793	1468465	68.73%	5.152%
313	15.102	15.082	15.119	VV	2147	43857	2.05%	0.154%
314	15.128	15.119	15.152	VV	1808	31105	1.46%	0.109%
315	15.168	15.152	15.185	VV	1657	27100	1.27%	0.095%
316	15.204	15.185	15.223	VV	2241	38931	1.82%	0.137%
317	15.244	15.223	15.272	VV	4782	77105	3.61%	0.271%
318	15.286	15.272	15.304	VV	1546	23857	1.12%	0.084%
319	15.309	15.304	15.319	VV	1105	8593	0.40%	0.030%
320	15.342	15.319	15.363	VV	1421	24656	1.15%	0.087%
321	15.380	15.363	15.394	VV	974	13412	0.63%	0.047%
322	15.400	15.394	15.417	VV	533	5030	0.24%	0.018%
323	15.436	15.417	15.444	VV	444	5395	0.25%	0.019%
324	15.448	15.444	15.461	VV	498	3837	0.18%	0.013%
325	15.469	15.461	15.475	VV	306	2196	0.10%	0.008%
326	15.483	15.475	15.518	VV	566	9035	0.42%	0.032%
327	15.532	15.518	15.538	VV	206	1838	0.09%	0.006%
328	15.555	15.538	15.566	VV	553	6777	0.32%	0.024%
329	15.576	15.566	15.584	VV	540	4795	0.22%	0.017%
330	15.623	15.584	15.712	VV	36859	665928	31.17%	2.336%
331	15.716	15.712	15.726	VV	700	5253	0.25%	0.018%
332	15.729	15.726	15.740	VV	641	4559	0.21%	0.016%
333	15.764	15.740	15.790	VV	5993	84263	3.94%	0.296%
334	15.797	15.790	15.801	VV	536	3153	0.15%	0.011%
335	15.839	15.801	15.867	VV	6345	96335	4.51%	0.338%
336	15.897	15.867	15.923	VV	1159	21341	1.00%	0.075%
337	15.947	15.923	15.956	VV	496	6545	0.31%	0.023%
338	15.982	15.956	16.002	VV	1284	20707	0.97%	0.073%
339	16.013	16.002	16.030	VV	785	9984	0.47%	0.035%
340	16.036	16.030	16.047	VV	698	5433	0.25%	0.019%
341	16.051	16.047	16.058	VV	398	2096	0.10%	0.007%
342	16.079	16.058	16.083	VV	590	7004	0.33%	0.025%
343	16.090	16.083	16.111	VV	733	6638	0.31%	0.023%
344	16.152	16.111	16.173	VV	1410	32089	1.50%	0.113%
345	16.178	16.173	16.195	VV	967	9288	0.43%	0.033%
346	16.202	16.195	16.208	VV	583	4034	0.19%	0.014%
347	16.215	16.208	16.222	VV	458	3157	0.15%	0.011%
348	16.229	16.222	16.243	VV	493	4989	0.23%	0.018%
349	16.267	16.243	16.306	VV	6459	99236	4.64%	0.348%
350	16.316	16.306	16.341	VV	674	10909	0.51%	0.038%
351	16.350	16.341	16.364	VV	502	4827	0.23%	0.017%

					rteres				
352	16.370	16.364	16.391	VV	369	3160	0.15%	0.011%	
353	16.396	16.391	16.402	PV	70	344	0.02%	0.001%	
354	16.458	16.402	16.474	PV	1105	24082	1.13%	0.084%	
355	16.478	16.474	16.498	VV	439	4368	0.20%	0.015%	
356	16.507	16.498	16.510	VV	207	1088	0.05%	0.004%	
357	16.515	16.510	16.523	VV	281	1178	0.06%	0.004%	
358	16.562	16.523	16.584	PV	1293	25295	1.18%	0.089%	
359	16.590	16.584	16.612	VV	761	10210	0.48%	0.036%	
360	16.648	16.612	16.685	VV	3275	71216	3.33%	0.250%	
361	16.750	16.685	16.794	VV	7005	126386	5.92%	0.443%	
362	16.830	16.794	16.851	PV	2556	39482	1.85%	0.139%	
363	16.876	16.851	16.899	VV	2889	49064	2.30%	0.172%	
364	16.916	16.899	16.934	VV	1213	18401	0.86%	0.065%	
365	16.957	16.934	16.975	VV	1025	16275	0.76%	0.057%	
366	16.980	16.975	16.991	VV	518	3815	0.18%	0.013%	
367	17.023	16.991	17.034	VV	1220	17450	0.82%	0.061%	
368	17.038	17.034	17.045	VV	797	4786	0.22%	0.017%	
369	17.055	17.045	17.063	VV	966	8542	0.40%	0.030%	
370	17.070	17.063	17.076	VV	745	4793	0.22%	0.017%	
371	17.082	17.076	17.090	VV	760	5167	0.24%	0.018%	
372	17.100	17.090	17.120	VV	732	9312	0.44%	0.033%	
373	17.129	17.120	17.145	VV	619	4082	0.19%	0.014%	
374	17.159	17.145	17.165	PV	200	1217	0.06%	0.004%	
375	17.217	17.165	17.243	VV	7253	121208	5.67%	0.425%	
376	17.268	17.243	17.300	VBA	4978	86308	4.04%	0.303%	
			Sum of corrected areas:			28501314			

FG111324.M Tue Nov 19 02:42:09 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/13/24
Project:	North Point	Date Received:	11/13/24
Client Sample ID:	EX-4-TPH-2	SDG No.:	P4839
Lab Sample ID:	P4839-18	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	85.8
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014834.D	1	11/14/24 13:15	11/16/24 19:33	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2050		215	1940	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.7		37 - 130	63%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014834.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 19:33
Operator : YP\AJ
Sample : P4839-18
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-4-TPH-2

Integration File: autoint1.e
Quant Time: Nov 18 05:52:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.041	1422202	12.679 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

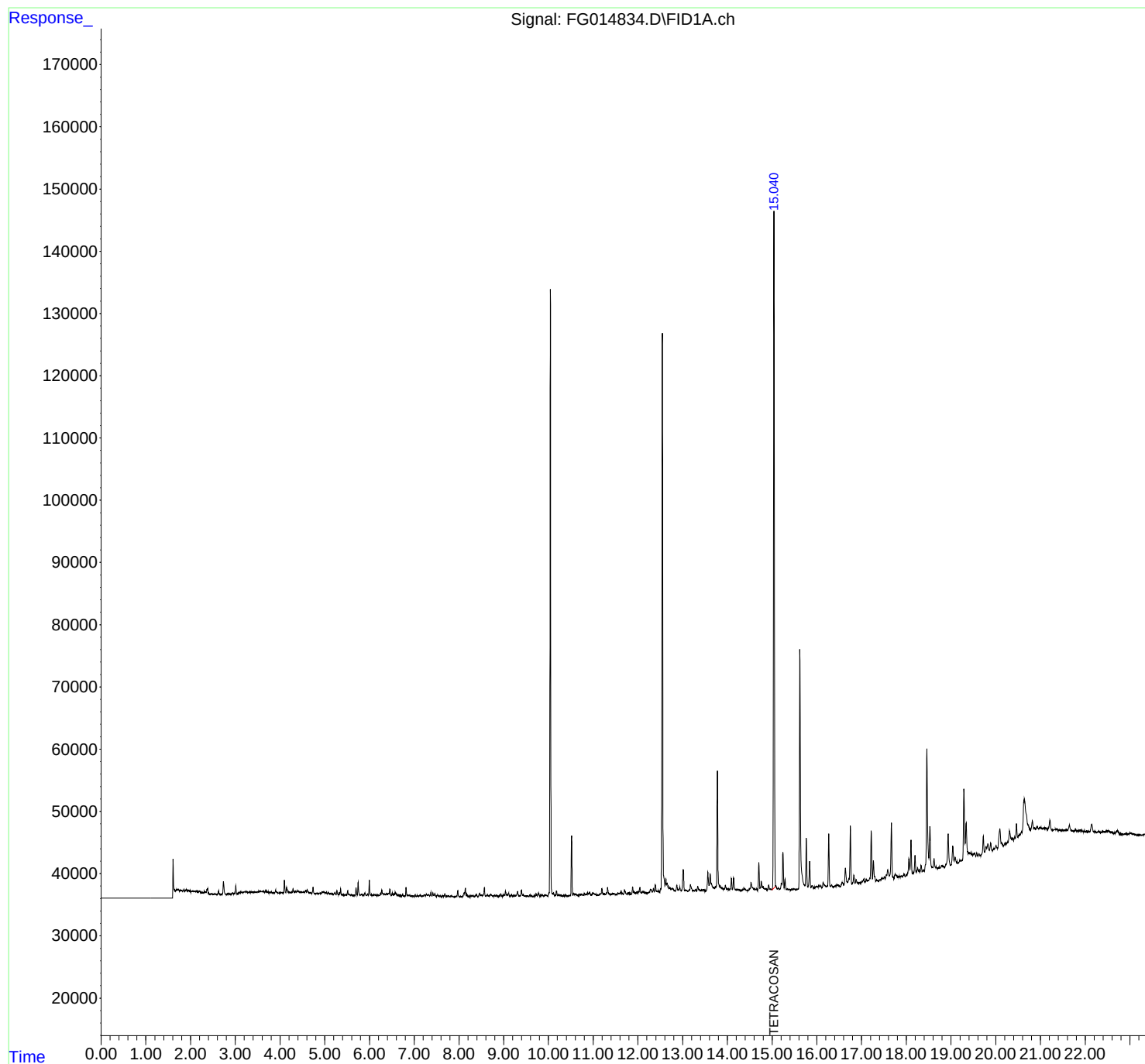
(m)=manual int.

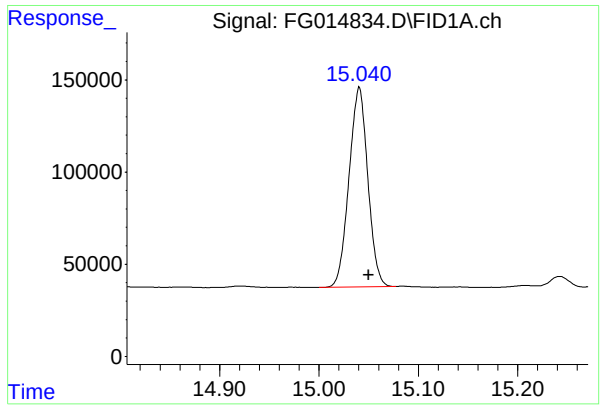
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014834.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 19:33
Operator : YP\AJ
Sample : P4839-18
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-4-TPH-2

Integration File: autoint1.e
Quant Time: Nov 18 05:52:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.041 min
Delta R.T.: -0.009 min
Response: 1422202
Conc: 12.68 ug/ml

Instrument :
FID_G
ClientSampleId :
EX-4-TPH-2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014834.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 19:33
Sample : P4839-18
Misc :
ALS Vial : 38 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.572	4.552	4.583	VV	891	13661	0.95%	0.170%
2	4.613	4.583	4.638	VV	834	22788	1.58%	0.283%
3	4.642	4.638	4.647	VV	559	2747	0.19%	0.034%
4	4.651	4.647	4.667	VV	580	6136	0.43%	0.076%
5	4.670	4.667	4.676	VV	486	2404	0.17%	0.030%
6	4.691	4.676	4.708	VV	531	8427	0.58%	0.105%
7	4.739	4.708	4.788	VV	1417	28687	1.99%	0.357%
8	4.794	4.788	4.800	VV	355	2335	0.16%	0.029%
9	4.810	4.800	4.816	VV	423	3547	0.25%	0.044%
10	4.821	4.816	4.843	VV	405	6123	0.42%	0.076%
11	4.856	4.843	4.865	VV	401	4763	0.33%	0.059%
12	4.882	4.865	4.892	VV	463	6594	0.46%	0.082%
13	4.902	4.892	4.908	VV	472	3862	0.27%	0.048%
14	4.940	4.908	4.965	VV	665	17694	1.23%	0.220%
15	4.980	4.965	5.007	VV	661	14180	0.98%	0.176%
16	5.027	5.007	5.037	VV	578	9183	0.64%	0.114%
17	5.040	5.037	5.052	VV	541	4347	0.30%	0.054%
18	5.080	5.052	5.105	VV	587	13780	0.96%	0.171%
19	5.131	5.105	5.137	VV	378	6565	0.46%	0.082%
20	5.141	5.137	5.146	VV	363	1814	0.13%	0.023%
21	5.153	5.146	5.166	VV	323	3565	0.25%	0.044%
22	5.170	5.166	5.175	VV	323	1612	0.11%	0.020%
23	5.180	5.175	5.199	VV	325	4240	0.29%	0.053%
24	5.228	5.199	5.247	VV	624	12073	0.84%	0.150%
25	5.273	5.247	5.311	VV	906	16288	1.13%	0.202%
26	5.325	5.311	5.340	VV	583	7851	0.54%	0.098%
27	5.355	5.340	5.380	VV	1186	14772	1.02%	0.184%
28	5.387	5.380	5.431	VV	287	6375	0.44%	0.079%
29	5.445	5.431	5.458	VV	218	3092	0.21%	0.038%
30	5.463	5.458	5.468	VV	222	1208	0.08%	0.015%
31	5.472	5.468	5.476	VV	216	870	0.06%	0.011%
32	5.480	5.476	5.493	VV	245	2017	0.14%	0.025%
33	5.513	5.493	5.532	VV	927	11718	0.81%	0.146%
34	5.538	5.532	5.542	VV	284	1491	0.10%	0.019%
35	5.549	5.542	5.565	VV	319	3556	0.25%	0.044%
36	5.569	5.565	5.575	VV	213	1016	0.07%	0.013%

					rteres			
37	5.591	5.575	5.615	VV	300	5001	0.35%	0.062%
38	5.621	5.615	5.633	VV	167	1499	0.10%	0.019%
39	5.644	5.633	5.656	VV	158	1828	0.13%	0.023%
40	5.663	5.656	5.679	VV	181	1800	0.12%	0.022%
41	5.701	5.679	5.728	VV	1406	17253	1.20%	0.214%
42	5.746	5.728	5.787	VV	2294	30616	2.12%	0.381%
43	5.792	5.787	5.798	VV	265	1536	0.11%	0.019%
44	5.822	5.798	5.852	VV	327	7769	0.54%	0.097%
45	5.856	5.852	5.874	VV	181	1897	0.13%	0.024%
46	5.898	5.874	5.928	VV	586	9578	0.66%	0.119%
47	5.955	5.928	5.977	VV	394	7781	0.54%	0.097%
48	5.997	5.977	6.023	VV	2644	28059	1.95%	0.349%
49	6.040	6.023	6.069	VV	307	6072	0.42%	0.075%
50	6.092	6.069	6.100	VV	359	4444	0.31%	0.055%
51	6.121	6.100	6.139	VV	334	5998	0.42%	0.075%
52	6.146	6.139	6.177	VV	290	4623	0.32%	0.057%
53	6.193	6.177	6.214	VV	266	4311	0.30%	0.054%
54	6.219	6.214	6.226	VV	175	1096	0.08%	0.014%
55	6.245	6.226	6.259	VV	532	7472	0.52%	0.093%
56	6.277	6.259	6.297	VV	1118	15963	1.11%	0.198%
57	6.300	6.297	6.314	VV	516	4585	0.32%	0.057%
58	6.326	6.314	6.357	VV	407	9293	0.64%	0.116%
59	6.377	6.357	6.403	VV	525	10887	0.76%	0.135%
60	6.407	6.403	6.411	VV	383	1885	0.13%	0.023%
61	6.426	6.411	6.438	VV	569	7741	0.54%	0.096%
62	6.456	6.438	6.487	VV	1209	19043	1.32%	0.237%
63	6.508	6.487	6.522	VV	589	7706	0.53%	0.096%
64	6.542	6.522	6.562	VV	447	8724	0.61%	0.108%
65	6.576	6.562	6.589	VV	747	8820	0.61%	0.110%
66	6.599	6.589	6.624	VV	514	7459	0.52%	0.093%
67	6.631	6.624	6.636	VV	283	1762	0.12%	0.022%
68	6.642	6.636	6.655	VV	243	2419	0.17%	0.030%
69	6.671	6.655	6.678	VV	255	2819	0.20%	0.035%
70	6.690	6.678	6.715	VV	206	3514	0.24%	0.044%
71	6.740	6.715	6.768	VV	368	6939	0.48%	0.086%
72	6.784	6.768	6.795	VV	138	1440	0.10%	0.018%
73	6.818	6.795	6.849	VV	1536	18851	1.31%	0.234%
74	6.864	6.849	6.877	VV	282	3915	0.27%	0.049%
75	6.900	6.877	6.923	VV	359	5658	0.39%	0.070%
76	6.929	6.923	6.947	VV	167	1659	0.12%	0.021%
77	6.952	6.947	6.956	VV	109	454	0.03%	0.006%
78	6.967	6.956	6.999	VV	192	2665	0.18%	0.033%
79	7.021	6.999	7.042	PV	411	4998	0.35%	0.062%
80	7.069	7.042	7.080	VV	252	3026	0.21%	0.038%
81	7.088	7.080	7.102	VV	113	1317	0.09%	0.016%
82	7.123	7.102	7.131	VV	269	3187	0.22%	0.040%
83	7.141	7.131	7.159	VV	326	3704	0.26%	0.046%
84	7.182	7.159	7.187	VV	178	2234	0.15%	0.028%
85	7.197	7.187	7.210	VV	198	2210	0.15%	0.027%
86	7.222	7.210	7.227	VV	390	3096	0.21%	0.038%
87	7.231	7.227	7.241	VV	358	2635	0.18%	0.033%
88	7.245	7.241	7.256	VV	301	2600	0.18%	0.032%
89	7.273	7.256	7.295	VV	508	8417	0.58%	0.105%

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90	7.311	7.295	7.323	VV	393	5839	0.41%	0.073%
91	7.327	7.323	7.350	VV	384	4447	0.31%	0.055%
92	7.372	7.350	7.400	VV	762	12623	0.88%	0.157%
93	7.417	7.400	7.440	VV	711	9914	0.69%	0.123%
94	7.461	7.440	7.494	VV	601	10063	0.70%	0.125%
95	7.512	7.494	7.543	VV	305	6034	0.42%	0.075%
96	7.556	7.543	7.570	VV	295	3376	0.23%	0.042%
97	7.579	7.570	7.583	VV	194	1304	0.09%	0.016%
98	7.588	7.583	7.603	VV	185	1571	0.11%	0.020%
99	7.608	7.603	7.612	VV	125	475	0.03%	0.006%
100	7.634	7.612	7.653	VV	217	3942	0.27%	0.049%
101	7.685	7.653	7.721	VV	568	10689	0.74%	0.133%
102	7.724	7.721	7.739	VV	164	1342	0.09%	0.017%
103	7.762	7.739	7.789	VV	262	5209	0.36%	0.065%
104	7.808	7.789	7.819	VV	218	2913	0.20%	0.036%
105	7.833	7.819	7.846	VV	254	3019	0.21%	0.038%
106	7.855	7.846	7.859	VV	187	1245	0.09%	0.015%
107	7.863	7.859	7.891	VV	177	1813	0.13%	0.023%
108	7.906	7.891	7.922	PV	141	1787	0.12%	0.022%
109	7.941	7.922	7.954	VV	214	2696	0.19%	0.034%
110	7.975	7.954	8.014	VV	1081	15759	1.09%	0.196%
111	8.020	8.014	8.027	VV	106	785	0.05%	0.010%
112	8.036	8.027	8.048	VV	119	1337	0.09%	0.017%
113	8.055	8.048	8.060	VV	157	712	0.05%	0.009%
114	8.117	8.060	8.127	VV	730	13777	0.96%	0.171%
115	8.143	8.127	8.162	VV	1459	18139	1.26%	0.225%
116	8.176	8.162	8.203	VV	457	6972	0.48%	0.087%
117	8.221	8.203	8.236	VV	279	3294	0.23%	0.041%
118	8.258	8.236	8.277	VV	279	4717	0.33%	0.059%
119	8.289	8.277	8.302	VV	343	3812	0.26%	0.047%
120	8.317	8.302	8.335	VV	242	3083	0.21%	0.038%
121	8.347	8.335	8.353	VV	159	1416	0.10%	0.018%
122	8.367	8.353	8.372	VV	243	1830	0.13%	0.023%
123	8.388	8.372	8.426	VV	490	7688	0.53%	0.096%
124	8.461	8.426	8.477	VV	623	10640	0.74%	0.132%
125	8.492	8.477	8.502	VV	349	4627	0.32%	0.058%
126	8.513	8.502	8.527	VV	371	4533	0.31%	0.056%
127	8.568	8.527	8.592	VV	1531	23126	1.60%	0.287%
128	8.597	8.592	8.602	VV	225	969	0.07%	0.012%
129	8.607	8.602	8.612	VV	170	999	0.07%	0.012%
130	8.628	8.612	8.651	VV	369	5608	0.39%	0.070%
131	8.665	8.651	8.678	VV	235	3110	0.22%	0.039%
132	8.707	8.678	8.748	VV	447	12470	0.87%	0.155%
133	8.762	8.748	8.786	VV	253	4161	0.29%	0.052%
134	8.800	8.786	8.812	VV	251	2842	0.20%	0.035%
135	8.816	8.812	8.828	VV	206	1687	0.12%	0.021%
136	8.843	8.828	8.880	VV	325	5503	0.38%	0.068%
137	8.904	8.880	8.916	VV	215	3012	0.21%	0.037%
138	8.934	8.916	8.955	VV	537	6936	0.48%	0.086%
139	8.959	8.955	8.964	VV	145	657	0.05%	0.008%
140	8.971	8.964	8.982	VV	191	1630	0.11%	0.020%
141	9.008	8.982	9.018	VV	335	5778	0.40%	0.072%

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142	9.040	9.018	9.064	VV	920	14315	0.99%	0.178%
143	9.069	9.064	9.077	VV	370	2797	0.19%	0.035%
144	9.080	9.077	9.093	VV	372	2979	0.21%	0.037%
145	9.111	9.093	9.148	VV	617	10180	0.71%	0.127%
146	9.170	9.148	9.186	VV	339	5231	0.36%	0.065%
147	9.190	9.186	9.213	VV	217	2613	0.18%	0.032%
148	9.218	9.213	9.246	VV	210	3111	0.22%	0.039%
149	9.258	9.246	9.276	VV	215	3285	0.23%	0.041%
150	9.311	9.276	9.359	VV	874	17705	1.23%	0.220%
151	9.398	9.359	9.425	VV	1078	17102	1.19%	0.213%
152	9.429	9.425	9.469	VV	314	4924	0.34%	0.061%
153	9.476	9.469	9.481	VV	108	498	0.03%	0.006%
154	9.498	9.481	9.522	VV	107	1782	0.12%	0.022%
155	9.542	9.522	9.559	VV	125	1868	0.13%	0.023%
156	9.592	9.559	9.617	VV	298	5673	0.39%	0.071%
157	9.621	9.617	9.644	VV	128	1083	0.08%	0.013%
158	9.681	9.644	9.692	VV	184	2281	0.16%	0.028%
159	9.696	9.692	9.708	VV	113	962	0.07%	0.012%
160	9.723	9.708	9.748	VV	529	6975	0.48%	0.087%
161	9.778	9.748	9.807	VV	602	10458	0.73%	0.130%
162	9.852	9.807	9.899	VV	271	8638	0.60%	0.107%
163	9.912	9.899	9.921	VV	158	1694	0.12%	0.021%
164	9.936	9.921	9.948	VV	269	3569	0.25%	0.044%
165	9.958	9.948	9.979	VV	221	2717	0.19%	0.034%
166	10.044	9.979	10.092	VV	97533	1024895	71.09%	12.741%
167	10.112	10.092	10.154	VV	589	11943	0.83%	0.148%
168	10.180	10.154	10.209	VV	897	13525	0.94%	0.168%
169	10.213	10.209	10.224	VV	236	1554	0.11%	0.019%
170	10.246	10.224	10.271	VV	229	4869	0.34%	0.061%
171	10.287	10.271	10.307	VV	284	3698	0.26%	0.046%
172	10.316	10.307	10.319	VV	77	447	0.03%	0.006%
173	10.328	10.319	10.346	VV	134	1571	0.11%	0.020%
174	10.354	10.346	10.365	VV	137	1166	0.08%	0.014%
175	10.369	10.365	10.377	VV	174	732	0.05%	0.009%
176	10.383	10.377	10.418	VV	192	1831	0.13%	0.023%
177	10.455	10.418	10.459	PV	128	1434	0.10%	0.018%
178	10.466	10.459	10.470	VV	98	500	0.03%	0.006%
179	10.480	10.470	10.494	VV	160	1701	0.12%	0.021%
180	10.519	10.494	10.550	VV	9730	107464	7.45%	1.336%
181	10.570	10.550	10.585	VV	499	7568	0.52%	0.094%
182	10.599	10.585	10.611	VV	363	4578	0.32%	0.057%
183	10.615	10.611	10.642	VV	278	3997	0.28%	0.050%
184	10.647	10.642	10.657	VV	186	1416	0.10%	0.018%
185	10.662	10.657	10.679	VV	197	1562	0.11%	0.019%
186	10.705	10.679	10.716	PV	321	4489	0.31%	0.056%
187	10.724	10.716	10.728	VV	205	1253	0.09%	0.016%
188	10.740	10.728	10.757	VV	328	4092	0.28%	0.051%
189	10.759	10.757	10.777	VV	185	1734	0.12%	0.022%
190	10.802	10.777	10.828	VV	438	7966	0.55%	0.099%
191	10.846	10.828	10.856	VV	270	3818	0.26%	0.047%
192	10.873	10.856	10.896	VV	569	8587	0.60%	0.107%
193	10.920	10.896	10.959	VV	633	12714	0.88%	0.158%
194	10.994	10.959	11.009	VV	493	9187	0.64%	0.114%

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195	11.019	11.009	11.043	VV	402	6033	0.42%	0.075%
196	11.052	11.043	11.086	VV	284	4746	0.33%	0.059%
197	11.103	11.086	11.112	VV	132	1352	0.09%	0.017%
198	11.121	11.112	11.126	VV	98	654	0.05%	0.008%
199	11.194	11.126	11.230	VV	1114	23497	1.63%	0.292%
200	11.249	11.230	11.263	VV	265	4143	0.29%	0.052%
201	11.274	11.263	11.282	VV	175	1747	0.12%	0.022%
202	11.323	11.282	11.347	VV	1304	22447	1.56%	0.279%
203	11.351	11.347	11.369	VV	329	3424	0.24%	0.043%
204	11.373	11.369	11.395	VV	221	2201	0.15%	0.027%
205	11.413	11.395	11.419	VV	181	1930	0.13%	0.024%
206	11.441	11.419	11.449	VV	235	3459	0.24%	0.043%
207	11.454	11.449	11.465	VV	268	2155	0.15%	0.027%
208	11.468	11.465	11.478	VV	201	1377	0.10%	0.017%
209	11.481	11.478	11.497	VV	218	1711	0.12%	0.021%
210	11.501	11.497	11.510	VV	126	845	0.06%	0.011%
211	11.515	11.510	11.521	VV	143	668	0.05%	0.008%
212	11.530	11.521	11.536	VV	149	994	0.07%	0.012%
213	11.559	11.536	11.583	VV	329	6542	0.45%	0.081%
214	11.599	11.583	11.610	VV	338	4262	0.30%	0.053%
215	11.624	11.610	11.647	VV	671	8908	0.62%	0.111%
216	11.650	11.647	11.674	VV	233	2581	0.18%	0.032%
217	11.702	11.674	11.751	VV	816	16920	1.17%	0.210%
218	11.762	11.751	11.767	VV	166	1096	0.08%	0.014%
219	11.784	11.767	11.805	VV	374	5018	0.35%	0.062%
220	11.819	11.805	11.843	VV	398	4570	0.32%	0.057%
221	11.883	11.843	11.913	PV	1236	20108	1.39%	0.250%
222	11.918	11.913	11.961	VV	434	8061	0.56%	0.100%
223	11.977	11.961	11.997	VV	478	6505	0.45%	0.081%
224	12.017	11.997	12.025	VV	535	6411	0.44%	0.080%
225	12.045	12.025	12.074	VV	1110	18552	1.29%	0.231%
226	12.085	12.074	12.097	VV	341	3832	0.27%	0.048%
227	12.108	12.097	12.135	VV	537	8657	0.60%	0.108%
228	12.148	12.135	12.187	VV	360	6983	0.48%	0.087%
229	12.214	12.187	12.234	VV	232	5098	0.35%	0.063%
230	12.281	12.234	12.292	VV	791	15146	1.05%	0.188%
231	12.295	12.292	12.323	VV	729	9239	0.64%	0.115%
232	12.349	12.323	12.366	VV	885	14589	1.01%	0.181%
233	12.388	12.366	12.424	VV	1483	27616	1.92%	0.343%
234	12.427	12.424	12.438	VV	379	3113	0.22%	0.039%
235	12.454	12.438	12.473	VV	529	8564	0.59%	0.106%
236	12.477	12.473	12.484	VV	282	1752	0.12%	0.022%
237	12.506	12.484	12.515	VV	847	10831	0.75%	0.135%
238	12.546	12.515	12.605	VV	90029	1144335	79.38%	14.226%
239	12.626	12.605	12.641	VV	2390	38748	2.69%	0.482%
240	12.652	12.641	12.694	VV	1727	41858	2.90%	0.520%
241	12.702	12.694	12.708	VV	843	6967	0.48%	0.087%
242	12.721	12.708	12.743	VV	961	16860	1.17%	0.210%
243	12.767	12.743	12.786	VV	906	19799	1.37%	0.246%
244	12.789	12.786	12.817	VV	760	10373	0.72%	0.129%
245	12.819	12.817	12.823	VV	472	1792	0.12%	0.022%
246	12.826	12.823	12.834	VV	463	2625	0.18%	0.033%

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247	12.869	12.834	12.909	VV	1293	33493	2.32%	0.416%
248	12.935	12.909	12.955	VV	1037	19663	1.36%	0.244%
249	12.960	12.955	12.970	VV	484	4096	0.28%	0.051%
250	13.014	12.970	13.042	VV	3774	75955	5.27%	0.944%
251	13.060	13.042	13.065	VV	505	6102	0.42%	0.076%
252	13.070	13.065	13.104	VV	504	9774	0.68%	0.122%
253	13.125	13.104	13.130	VV	333	4874	0.34%	0.061%
254	13.145	13.130	13.153	VV	517	5831	0.40%	0.072%
255	13.176	13.153	13.237	VV	1313	36071	2.50%	0.448%
256	13.243	13.237	13.251	VV	401	3078	0.21%	0.038%
257	13.256	13.251	13.263	VV	396	2284	0.16%	0.028%
258	13.291	13.263	13.313	VV	595	12318	0.85%	0.153%
259	13.338	13.313	13.374	VV	1035	23262	1.61%	0.289%
260	13.379	13.374	13.402	VV	478	6872	0.48%	0.085%
261	13.408	13.402	13.417	VV	365	2974	0.21%	0.037%
262	13.424	13.417	13.435	VV	440	4390	0.30%	0.055%
263	13.460	13.435	13.474	VV	508	9403	0.65%	0.117%
264	13.478	13.474	13.484	VV	383	2144	0.15%	0.027%
265	13.499	13.484	13.511	VV	424	5349	0.37%	0.066%
266	13.563	13.511	13.589	VV	3321	62906	4.36%	0.782%
267	13.615	13.589	13.687	VV	2965	86325	5.99%	1.073%
268	13.690	13.687	13.709	VV	823	9665	0.67%	0.120%
269	13.719	13.709	13.723	VV	718	5749	0.40%	0.071%
270	13.743	13.723	13.751	VV	956	14040	0.97%	0.175%
271	13.776	13.751	13.859	VV	19480	273795	18.99%	3.404%
272	13.863	13.859	13.868	VV	694	3855	0.27%	0.048%
273	13.879	13.868	13.904	VV	717	12905	0.90%	0.160%
274	13.908	13.904	13.917	VV	510	3615	0.25%	0.045%
275	13.955	13.917	13.984	VV	1064	26399	1.83%	0.328%
276	13.991	13.984	14.001	VV	550	5186	0.36%	0.064%
277	14.009	14.001	14.049	VV	497	11278	0.78%	0.140%
278	14.059	14.049	14.063	VV	474	3570	0.25%	0.044%
279	14.090	14.063	14.115	VV	2151	33408	2.32%	0.415%
280	14.138	14.115	14.182	VV	2242	39471	2.74%	0.491%
281	14.192	14.182	14.213	VV	383	5989	0.42%	0.074%
282	14.233	14.213	14.258	VV	377	8144	0.56%	0.101%
283	14.262	14.258	14.275	VV	323	2895	0.20%	0.036%
284	14.283	14.275	14.312	VV	266	4340	0.30%	0.054%
285	14.316	14.312	14.319	VV	166	627	0.04%	0.008%
286	14.323	14.319	14.328	VV	179	785	0.05%	0.010%
287	14.379	14.328	14.385	VV	442	11133	0.77%	0.138%
288	14.388	14.385	14.417	VV	447	5589	0.39%	0.069%
289	14.421	14.417	14.431	VV	266	1654	0.11%	0.021%
290	14.435	14.431	14.443	VV	183	1127	0.08%	0.014%
291	14.450	14.443	14.455	VV	175	1010	0.07%	0.013%
292	14.460	14.455	14.472	VV	169	1325	0.09%	0.016%
293	14.528	14.472	14.589	VV	1371	41698	2.89%	0.518%
294	14.594	14.589	14.598	VV	392	1829	0.13%	0.023%
295	14.600	14.598	14.639	VV	362	7721	0.54%	0.096%
296	14.654	14.639	14.674	VV	346	5442	0.38%	0.068%
297	14.702	14.674	14.737	VV	4565	65503	4.54%	0.814%
298	14.758	14.737	14.780	VV	1546	24893	1.73%	0.309%
299	14.798	14.780	14.822	VV	730	13770	0.96%	0.171%

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300	14.825	14.822	14.844	VV	371	3988	0.28%	0.050%
301	14.862	14.844	14.888	VV	429	7320	0.51%	0.091%
302	14.921	14.888	14.954	VV	906	17233	1.20%	0.214%
303	14.962	14.954	14.966	VV	256	1867	0.13%	0.023%
304	14.972	14.966	14.997	VV	286	4049	0.28%	0.050%
305	15.041	14.997	15.077	VV	109020	1441638	100.00%	17.922%
306	15.084	15.077	15.120	VV	801	12777	0.89%	0.159%
307	15.142	15.120	15.157	VV	424	6896	0.48%	0.086%
308	15.209	15.157	15.220	VV	1212	21381	1.48%	0.266%
309	15.242	15.220	15.267	VV	6107	84972	5.89%	1.056%
310	15.288	15.267	15.326	VV	1781	26316	1.83%	0.327%
311	15.339	15.326	15.366	VV	268	4077	0.28%	0.051%
312	15.379	15.366	15.384	VV	193	1433	0.10%	0.018%
313	15.387	15.384	15.417	VV	174	1383	0.10%	0.017%
314	15.439	15.417	15.459	PV	195	2737	0.19%	0.034%
315	15.489	15.459	15.495	VV	174	2296	0.16%	0.029%
316	15.498	15.495	15.515	VV	105	738	0.05%	0.009%
317	15.535	15.515	15.547	VV	121	1203	0.08%	0.015%
318	15.551	15.547	15.561	VV	103	439	0.03%	0.005%
319	15.577	15.561	15.588	PV	165	1419	0.10%	0.018%
320	15.620	15.588	15.734	VV	38596	594877	41.26%	7.395%
321	15.764	15.734	15.795	VV	8236	114582	7.95%	1.424%
322	15.838	15.795	15.871	VV	4435	69857	4.85%	0.868%
323	15.889	15.871	15.928	VV	529	9934	0.69%	0.123%
324	15.943	15.928	15.954	VV	189	1782	0.12%	0.022%
325	15.977	15.954	15.985	VV	299	3756	0.26%	0.047%
326	15.992	15.985	15.998	VV	296	1836	0.13%	0.023%
327	16.009	15.998	16.026	VV	280	3796	0.26%	0.047%
328	16.045	16.026	16.049	VV	375	3944	0.27%	0.049%
329	16.057	16.049	16.070	VV	424	3959	0.27%	0.049%
330	16.088	16.070	16.112	VV	430	6232	0.43%	0.077%
331	16.138	16.112	16.169	VV	882	17299	1.20%	0.215%
332	16.174	16.169	16.200	VV	468	6278	0.44%	0.078%
333	16.203	16.200	16.210	VV	236	997	0.07%	0.012%
334	16.229	16.210	16.237	VV	259	3180	0.22%	0.040%
335	16.265	16.237	16.309	VV	8649	115173	7.99%	1.432%
336	16.330	16.309	16.358	VV	415	6329	0.44%	0.079%
337	16.364	16.358	16.377	PV	65	490	0.03%	0.006%
338	16.380	16.377	16.386	VV	73	299	0.02%	0.004%
339	16.409	16.386	16.419	VV	195	2294	0.16%	0.029%
340	16.452	16.419	16.494	VV	397	10319	0.72%	0.128%
341	16.506	16.494	16.513	VV	98	639	0.04%	0.008%
342	16.518	16.513	16.525	PV	58	207	0.01%	0.003%
343	16.570	16.525	16.605	VV	613	14606	1.01%	0.182%
344	16.637	16.605	16.683	VV	2847	59735	4.14%	0.743%
345	16.717	16.683	16.722	VV	1008	17846	1.24%	0.222%
346	16.749	16.722	16.787	VV	9533	130707	9.07%	1.625%
347	16.828	16.787	16.853	VV	1517	25182	1.75%	0.313%
348	16.878	16.853	16.900	VV	806	12997	0.90%	0.162%
349	16.912	16.900	16.925	VV	295	3016	0.21%	0.037%
350	16.944	16.925	16.955	VV	126	1944	0.13%	0.024%
351	16.961	16.955	16.964	VV	111	472	0.03%	0.006%

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352	16.983	16.964	16.992	VV	183	2290	0.16%	0.028%
353	17.051	16.992	17.077	VV	699	18090	1.25%	0.225%
354	17.109	17.077	17.148	VV	577	15827	1.10%	0.197%
355	17.181	17.148	17.188	VV	720	11329	0.79%	0.141%
356	17.215	17.188	17.243	VV	8252	120289	8.34%	1.495%
357	17.264	17.243	17.314	VV	3467	60159	4.17%	0.748%
358	17.328	17.314	17.341	VV	252	3256	0.23%	0.040%
359	17.344	17.341	17.347	VV	196	564	0.04%	0.007%
Sum of corrected areas:							8044077	

Report of Analysis

Client:	ENTACT	Date Collected:	11/13/24
Project:	North Point	Date Received:	11/13/24
Client Sample ID:	EX-4-TPH-3	SDG No.:	P4839
Lab Sample ID:	P4839-19	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	84.2
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014835.D	1	11/14/24 13:15	11/16/24 20:02	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2250		219	1970	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	11.9		37 - 130	60%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014835.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 20:02
Operator : YP\AJ
Sample : P4839-19
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-4-TPH-3

Integration File: autoint1.e
Quant Time: Nov 18 05:52:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.040	1338403	11.932 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

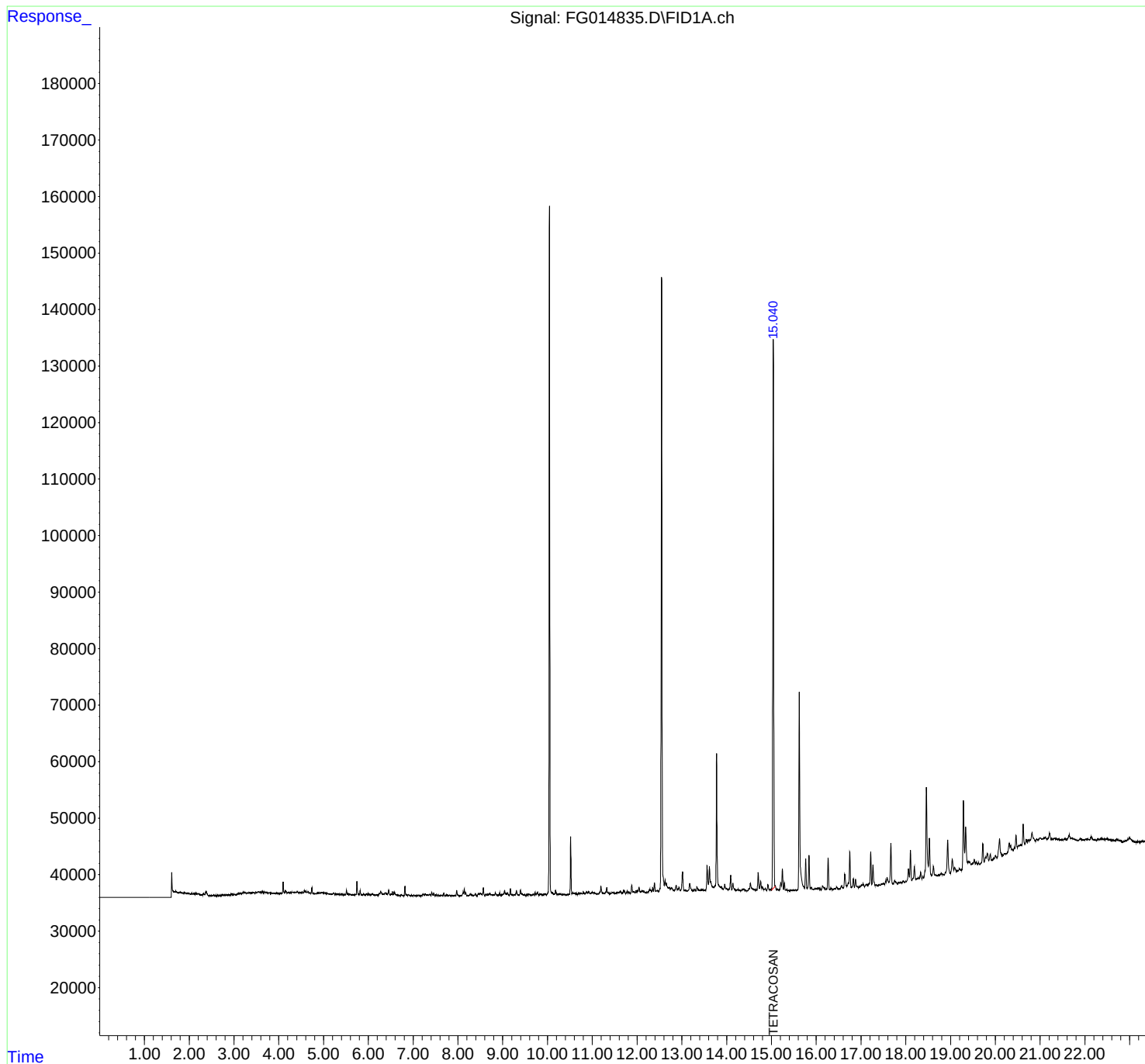
(m)=manual int.

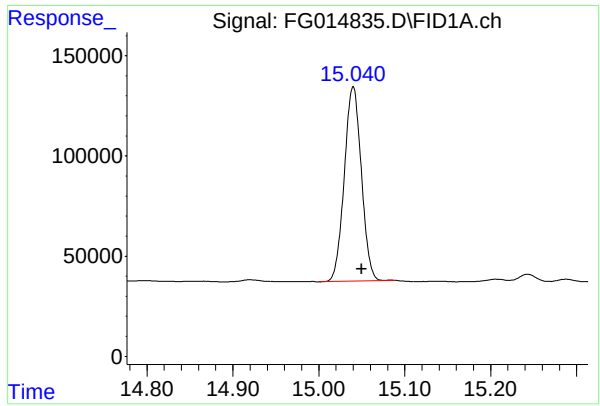
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014835.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 20:02
Operator : YP\AJ
Sample : P4839-19
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-4-TPH-3

Integration File: autoint1.e
Quant Time: Nov 18 05:52:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.040 min
Delta R.T.: -0.010 min
Response: 1338403
Conc: 11.93 ug/ml

Instrument :
FID_G
ClientSampleId :
EX-4-TPH-3

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014835.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 20:02
Sample : P4839-19
Misc :
ALS Vial : 39 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.787	4.765	4.799	VV	479	8958	0.63%	0.106%
2	4.810	4.799	4.816	VV	466	4521	0.32%	0.053%
3	4.824	4.816	4.842	VV	476	6736	0.48%	0.080%
4	4.856	4.842	4.863	VV	555	6192	0.44%	0.073%
5	4.890	4.863	4.894	VV	590	9758	0.69%	0.115%
6	4.898	4.894	4.902	VV	581	2726	0.19%	0.032%
7	4.951	4.902	4.970	VV	648	22981	1.63%	0.271%
8	4.982	4.970	4.991	VV	638	7409	0.52%	0.087%
9	4.995	4.991	5.008	VV	587	5716	0.40%	0.067%
10	5.017	5.008	5.056	VV	619	15497	1.10%	0.183%
11	5.076	5.056	5.109	VV	567	14990	1.06%	0.177%
12	5.126	5.109	5.146	VV	440	8484	0.60%	0.100%
13	5.150	5.146	5.162	VV	412	3748	0.27%	0.044%
14	5.168	5.162	5.174	VV	394	2528	0.18%	0.030%
15	5.182	5.174	5.201	VV	411	6088	0.43%	0.072%
16	5.227	5.201	5.246	VV	635	12921	0.92%	0.153%
17	5.250	5.246	5.257	VV	360	2178	0.15%	0.026%
18	5.270	5.257	5.306	VV	507	11035	0.78%	0.130%
19	5.323	5.306	5.343	VV	358	7226	0.51%	0.085%
20	5.355	5.343	5.373	VV	383	5904	0.42%	0.070%
21	5.398	5.373	5.432	VV	402	10986	0.78%	0.130%
22	5.437	5.432	5.442	VV	285	1597	0.11%	0.019%
23	5.450	5.442	5.459	VV	300	2669	0.19%	0.032%
24	5.463	5.459	5.472	VV	317	2095	0.15%	0.025%
25	5.483	5.472	5.488	VV	305	2487	0.18%	0.029%
26	5.513	5.488	5.531	VV	1040	14828	1.05%	0.175%
27	5.546	5.531	5.576	VV	463	8894	0.63%	0.105%
28	5.587	5.576	5.618	VV	409	7736	0.55%	0.091%
29	5.626	5.618	5.631	VV	254	1807	0.13%	0.021%
30	5.635	5.631	5.644	VV	259	1821	0.13%	0.022%
31	5.648	5.644	5.658	VV	255	1803	0.13%	0.021%
32	5.664	5.658	5.678	VV	221	2227	0.16%	0.026%
33	5.705	5.678	5.728	VV	356	7762	0.55%	0.092%
34	5.745	5.728	5.796	VV	2662	36736	2.60%	0.434%
35	5.817	5.796	5.848	VV	999	14901	1.06%	0.176%
36	5.853	5.848	5.870	VV	292	2984	0.21%	0.035%

					rteres			
37	5.879	5.870	5.884	VV	272	2083	0.15%	0.025%
38	5.896	5.884	5.931	VV	385	7213	0.51%	0.085%
39	5.952	5.931	5.986	VV	470	10902	0.77%	0.129%
40	5.995	5.986	6.024	VV	499	7695	0.55%	0.091%
41	6.036	6.024	6.057	VV	410	5811	0.41%	0.069%
42	6.086	6.057	6.109	VV	477	9910	0.70%	0.117%
43	6.120	6.109	6.126	VV	275	2507	0.18%	0.030%
44	6.131	6.126	6.149	VV	247	2894	0.20%	0.034%
45	6.165	6.149	6.172	VV	247	3086	0.22%	0.036%
46	6.177	6.172	6.183	VV	250	1492	0.11%	0.018%
47	6.188	6.183	6.204	VV	285	2779	0.20%	0.033%
48	6.221	6.204	6.228	VV	247	2710	0.19%	0.032%
49	6.246	6.228	6.259	VV	553	7982	0.57%	0.094%
50	6.276	6.259	6.318	VV	897	20497	1.45%	0.242%
51	6.331	6.318	6.356	VV	481	8870	0.63%	0.105%
52	6.370	6.356	6.392	VV	651	11505	0.81%	0.136%
53	6.395	6.392	6.414	VV	488	5020	0.36%	0.059%
54	6.455	6.414	6.484	VV	1116	22336	1.58%	0.264%
55	6.524	6.484	6.533	VV	413	9933	0.70%	0.117%
56	6.538	6.533	6.559	VV	834	5830	0.41%	0.069%
57	6.576	6.559	6.591	VV	827	10139	0.72%	0.120%
58	6.601	6.591	6.615	VV	485	5268	0.37%	0.062%
59	6.628	6.615	6.648	VV	278	4707	0.33%	0.056%
60	6.652	6.648	6.657	VV	244	959	0.07%	0.011%
61	6.664	6.657	6.672	VV	207	1595	0.11%	0.019%
62	6.675	6.672	6.695	VV	209	2429	0.17%	0.029%
63	6.698	6.695	6.704	VV	181	750	0.05%	0.009%
64	6.717	6.704	6.721	VV	176	1367	0.10%	0.016%
65	6.737	6.721	6.762	VV	327	5550	0.39%	0.066%
66	6.765	6.762	6.773	VV	153	829	0.06%	0.010%
67	6.777	6.773	6.787	VV	139	886	0.06%	0.010%
68	6.817	6.787	6.846	VV	1810	20998	1.49%	0.248%
69	6.848	6.846	6.856	VV	269	1398	0.10%	0.017%
70	6.860	6.856	6.873	VV	232	1868	0.13%	0.022%
71	6.891	6.873	6.918	VV	361	6215	0.44%	0.073%
72	6.923	6.918	6.931	VV	191	1050	0.07%	0.012%
73	6.935	6.931	6.940	VV	121	548	0.04%	0.006%
74	6.944	6.940	6.954	VV	112	914	0.06%	0.011%
75	6.961	6.954	6.986	VV	230	2776	0.20%	0.033%
76	6.993	6.986	6.997	VV	101	531	0.04%	0.006%
77	7.016	6.997	7.042	VV	245	3845	0.27%	0.045%
78	7.059	7.042	7.072	VV	145	1829	0.13%	0.022%
79	7.079	7.072	7.086	VV	132	714	0.05%	0.008%
80	7.092	7.086	7.100	VV	115	763	0.05%	0.009%
81	7.122	7.100	7.138	VV	236	3322	0.24%	0.039%
82	7.141	7.138	7.156	VV	163	1136	0.08%	0.013%
83	7.172	7.156	7.176	PV	111	854	0.06%	0.010%
84	7.194	7.176	7.205	VV	200	2517	0.18%	0.030%
85	7.217	7.205	7.256	VV	427	9559	0.68%	0.113%
86	7.268	7.256	7.286	VV	427	6144	0.44%	0.073%
87	7.292	7.286	7.300	VV	250	1803	0.13%	0.021%
88	7.316	7.300	7.347	VV	283	6697	0.47%	0.079%
89	7.376	7.347	7.400	VV	373	8248	0.58%	0.097%

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90	7.416	7.400	7.445	VV	749	11045	0.78%	0.130%
91	7.459	7.445	7.480	VV	583	7988	0.57%	0.094%
92	7.484	7.480	7.490	VV	199	951	0.07%	0.011%
93	7.515	7.490	7.541	VV	324	5643	0.40%	0.067%
94	7.554	7.541	7.572	VV	306	3768	0.27%	0.044%
95	7.575	7.572	7.582	VV	155	796	0.06%	0.009%
96	7.593	7.582	7.614	VV	148	2083	0.15%	0.025%
97	7.634	7.614	7.645	VV	192	2763	0.20%	0.033%
98	7.651	7.645	7.656	VV	194	1013	0.07%	0.012%
99	7.685	7.656	7.709	VV	599	9242	0.65%	0.109%
100	7.714	7.709	7.738	VV	138	1832	0.13%	0.022%
101	7.754	7.738	7.786	VV	272	3950	0.28%	0.047%
102	7.813	7.786	7.824	VV	227	2991	0.21%	0.035%
103	7.827	7.824	7.839	VV	168	1211	0.09%	0.014%
104	7.866	7.839	7.887	VV	183	2796	0.20%	0.033%
105	7.895	7.887	7.902	VV	85	589	0.04%	0.007%
106	7.910	7.902	7.918	VV	116	896	0.06%	0.011%
107	7.930	7.918	7.954	VV	164	2763	0.20%	0.033%
108	7.975	7.954	8.023	VV	1043	14644	1.04%	0.173%
109	8.027	8.023	8.033	PV	83	292	0.02%	0.003%
110	8.045	8.033	8.061	VV	104	1178	0.08%	0.014%
111	8.069	8.061	8.078	VV	132	825	0.06%	0.010%
112	8.119	8.078	8.127	VV	647	9546	0.68%	0.113%
113	8.143	8.127	8.162	VV	1328	16242	1.15%	0.192%
114	8.174	8.162	8.201	VV	635	8969	0.64%	0.106%
115	8.205	8.201	8.211	VV	98	403	0.03%	0.005%
116	8.217	8.211	8.239	VV	159	1807	0.13%	0.021%
117	8.266	8.239	8.273	VV	243	3224	0.23%	0.038%
118	8.284	8.273	8.308	VV	356	5097	0.36%	0.060%
119	8.314	8.308	8.322	VV	154	1199	0.08%	0.014%
120	8.323	8.322	8.336	VV	166	923	0.07%	0.011%
121	8.341	8.336	8.356	VV	123	879	0.06%	0.010%
122	8.366	8.356	8.376	VV	156	1503	0.11%	0.018%
123	8.388	8.376	8.425	VV	365	5189	0.37%	0.061%
124	8.459	8.425	8.475	VV	507	8458	0.60%	0.100%
125	8.490	8.475	8.507	VV	509	7947	0.56%	0.094%
126	8.512	8.507	8.536	VV	456	6182	0.44%	0.073%
127	8.539	8.536	8.547	VV	341	1933	0.14%	0.023%
128	8.568	8.547	8.610	VV	1479	20089	1.42%	0.237%
129	8.629	8.610	8.647	VV	366	5439	0.39%	0.064%
130	8.655	8.647	8.659	VV	263	1733	0.12%	0.020%
131	8.664	8.659	8.677	VV	252	2342	0.17%	0.028%
132	8.714	8.677	8.740	VV	430	11107	0.79%	0.131%
133	8.765	8.740	8.778	VV	239	4176	0.30%	0.049%
134	8.796	8.778	8.803	VV	220	2202	0.16%	0.026%
135	8.810	8.803	8.822	VV	218	2013	0.14%	0.024%
136	8.838	8.822	8.865	VV	548	8274	0.59%	0.098%
137	8.868	8.865	8.888	VV	128	1173	0.08%	0.014%
138	8.902	8.888	8.918	VV	179	2581	0.18%	0.030%
139	8.932	8.918	8.976	VV	560	7898	0.56%	0.093%
140	8.981	8.976	8.985	VV	166	809	0.06%	0.010%
141	9.007	8.985	9.012	VV	282	3577	0.25%	0.042%

					rteres			
142	9.042	9.012	9.064	VV	928	15492	1.10%	0.183%
143	9.067	9.064	9.085	VV	420	4345	0.31%	0.051%
144	9.089	9.085	9.094	VV	311	1546	0.11%	0.018%
145	9.108	9.094	9.136	VV	538	7717	0.55%	0.091%
146	9.144	9.136	9.148	VV	132	586	0.04%	0.007%
147	9.172	9.148	9.207	VV	1256	17399	1.23%	0.205%
148	9.221	9.207	9.238	VV	221	2872	0.20%	0.034%
149	9.253	9.238	9.271	VV	255	3431	0.24%	0.041%
150	9.276	9.271	9.282	VV	176	1017	0.07%	0.012%
151	9.310	9.282	9.339	VV	898	15706	1.11%	0.185%
152	9.342	9.339	9.352	VV	202	1074	0.08%	0.013%
153	9.362	9.352	9.371	VV	87	849	0.06%	0.010%
154	9.398	9.371	9.418	VV	1004	15072	1.07%	0.178%
155	9.422	9.418	9.451	VV	364	5215	0.37%	0.062%
156	9.457	9.451	9.468	VV	162	1167	0.08%	0.014%
157	9.471	9.468	9.479	VV	139	729	0.05%	0.009%
158	9.488	9.479	9.514	VV	157	2327	0.16%	0.027%
159	9.517	9.514	9.527	VV	91	476	0.03%	0.006%
160	9.543	9.527	9.568	PV	303	4005	0.28%	0.047%
161	9.577	9.568	9.588	VV	301	2997	0.21%	0.035%
162	9.591	9.588	9.621	VV	314	3408	0.24%	0.040%
163	9.627	9.621	9.643	VV	128	1083	0.08%	0.013%
164	9.656	9.643	9.660	PV	93	460	0.03%	0.005%
165	9.678	9.660	9.706	VV	302	4038	0.29%	0.048%
166	9.723	9.706	9.752	VV	616	8508	0.60%	0.100%
167	9.776	9.752	9.805	VV	616	10044	0.71%	0.119%
168	9.817	9.805	9.825	VV	195	1394	0.10%	0.016%
169	9.845	9.825	9.856	VV	276	3587	0.25%	0.042%
170	9.860	9.856	9.865	VV	241	1172	0.08%	0.014%
171	9.869	9.865	9.887	VV	223	1695	0.12%	0.020%
172	9.907	9.887	9.912	VV	151	1327	0.09%	0.016%
173	9.935	9.912	9.947	VV	298	4270	0.30%	0.050%
174	9.953	9.947	9.981	VV	215	2755	0.20%	0.033%
175	10.044	9.981	10.102	VV	121842	1280479	90.69%	15.119%
176	10.112	10.102	10.156	VV	513	9435	0.67%	0.111%
177	10.180	10.156	10.226	VV	908	15142	1.07%	0.179%
178	10.253	10.226	10.267	VV	268	4149	0.29%	0.049%
179	10.281	10.267	10.308	VV	298	3993	0.28%	0.047%
180	10.318	10.308	10.327	VV	160	1095	0.08%	0.013%
181	10.330	10.327	10.339	VV	118	669	0.05%	0.008%
182	10.350	10.339	10.360	VV	131	1163	0.08%	0.014%
183	10.368	10.360	10.381	VV	167	1336	0.09%	0.016%
184	10.385	10.381	10.400	VV	133	905	0.06%	0.011%
185	10.409	10.400	10.415	VV	90	521	0.04%	0.006%
186	10.426	10.415	10.436	PV	63	517	0.04%	0.006%
187	10.442	10.436	10.447	VV	74	347	0.02%	0.004%
188	10.457	10.447	10.461	VV	78	436	0.03%	0.005%
189	10.475	10.461	10.492	VV	206	1931	0.14%	0.023%
190	10.518	10.492	10.546	VV	10284	113246	8.02%	1.337%
191	10.568	10.546	10.588	VV	396	6960	0.49%	0.082%
192	10.595	10.588	10.601	VV	336	2180	0.15%	0.026%
193	10.605	10.601	10.614	VV	290	2034	0.14%	0.024%
194	10.619	10.614	10.639	VV	317	3344	0.24%	0.039%

					rteres			
195	10.643	10.639	10.678	VV	236	3195	0.23%	0.038%
196	10.703	10.678	10.721	VV	380	6047	0.43%	0.071%
197	10.736	10.721	10.749	VV	347	4320	0.31%	0.051%
198	10.760	10.749	10.778	VV	233	3319	0.24%	0.039%
199	10.799	10.778	10.821	VV	450	7201	0.51%	0.085%
200	10.824	10.821	10.833	VV	260	1597	0.11%	0.019%
201	10.848	10.833	10.855	VV	243	2704	0.19%	0.032%
202	10.873	10.855	10.892	VV	535	8188	0.58%	0.097%
203	10.918	10.892	10.958	VV	595	13529	0.96%	0.160%
204	10.997	10.958	11.011	VV	469	9384	0.66%	0.111%
205	11.020	11.011	11.040	VV	371	5150	0.36%	0.061%
206	11.051	11.040	11.098	VV	320	6112	0.43%	0.072%
207	11.105	11.098	11.118	VV	127	1208	0.09%	0.014%
208	11.147	11.118	11.153	VV	200	2640	0.19%	0.031%
209	11.193	11.153	11.227	VV	1426	26504	1.88%	0.313%
210	11.229	11.227	11.235	VV	248	1086	0.08%	0.013%
211	11.249	11.235	11.256	VV	280	2827	0.20%	0.033%
212	11.264	11.256	11.270	VV	194	1425	0.10%	0.017%
213	11.275	11.270	11.280	VV	162	869	0.06%	0.010%
214	11.323	11.280	11.405	VV	1277	27328	1.94%	0.323%
215	11.445	11.405	11.450	VV	297	5130	0.36%	0.061%
216	11.454	11.450	11.466	VV	311	2566	0.18%	0.030%
217	11.481	11.466	11.510	VV	287	4686	0.33%	0.055%
218	11.561	11.510	11.588	VV	393	11035	0.78%	0.130%
219	11.595	11.588	11.608	VV	324	3148	0.22%	0.037%
220	11.624	11.608	11.650	VV	537	8708	0.62%	0.103%
221	11.655	11.650	11.659	VV	200	934	0.07%	0.011%
222	11.664	11.659	11.667	VV	188	801	0.06%	0.009%
223	11.702	11.667	11.720	VV	736	13192	0.93%	0.156%
224	11.724	11.720	11.747	VV	434	3930	0.28%	0.046%
225	11.780	11.747	11.804	VV	584	9730	0.69%	0.115%
226	11.820	11.804	11.850	VV	415	5783	0.41%	0.068%
227	11.881	11.850	11.909	VV	1549	24042	1.70%	0.284%
228	11.917	11.909	11.959	VV	437	8943	0.63%	0.106%
229	11.978	11.959	11.990	VV	622	7975	0.56%	0.094%
230	12.009	11.990	12.024	VV	629	9665	0.68%	0.114%
231	12.044	12.024	12.073	VV	1161	19257	1.36%	0.227%
232	12.087	12.073	12.091	VV	367	3392	0.24%	0.040%
233	12.110	12.091	12.118	VV	583	7472	0.53%	0.088%
234	12.121	12.118	12.141	VV	544	5969	0.42%	0.070%
235	12.157	12.141	12.191	VV	491	8393	0.59%	0.099%
236	12.233	12.191	12.240	VV	269	5936	0.42%	0.070%
237	12.283	12.240	12.325	VV	770	25142	1.78%	0.297%
238	12.347	12.325	12.367	VV	1056	16501	1.17%	0.195%
239	12.388	12.367	12.428	VV	1853	32805	2.32%	0.387%
240	12.454	12.428	12.474	VV	572	12356	0.88%	0.146%
241	12.507	12.474	12.514	VV	855	12761	0.90%	0.151%
242	12.548	12.514	12.607	VV	108948	1411918	100.00%	16.671%
243	12.625	12.607	12.642	VV	2395	39202	2.78%	0.463%
244	12.653	12.642	12.698	VV	1733	42833	3.03%	0.506%
245	12.700	12.698	12.705	VV	917	3938	0.28%	0.046%
246	12.720	12.705	12.738	VV	1036	18013	1.28%	0.213%

					rteres			
247	12.771	12.738	12.780	VV	915	20351	1.44%	0.240%
248	12.785	12.780	12.806	VV	892	10794	0.76%	0.127%
249	12.815	12.806	12.838	VV	535	9514	0.67%	0.112%
250	12.870	12.838	12.900	VV	1363	32456	2.30%	0.383%
251	12.936	12.900	12.958	VV	1053	26118	1.85%	0.308%
252	13.015	12.958	13.050	VV	3763	79696	5.64%	0.941%
253	13.061	13.050	13.077	VV	484	7147	0.51%	0.084%
254	13.081	13.077	13.101	VV	474	5986	0.42%	0.071%
255	13.109	13.101	13.115	VV	386	3010	0.21%	0.036%
256	13.119	13.115	13.128	VV	407	2813	0.20%	0.033%
257	13.175	13.128	13.240	VV	1649	50659	3.59%	0.598%
258	13.244	13.240	13.252	VV	429	2719	0.19%	0.032%
259	13.261	13.252	13.265	VV	447	2935	0.21%	0.035%
260	13.292	13.265	13.314	VV	673	13301	0.94%	0.157%
261	13.336	13.314	13.373	VV	1036	23860	1.69%	0.282%
262	13.383	13.373	13.415	VV	506	10916	0.77%	0.129%
263	13.435	13.415	13.441	VV	506	6669	0.47%	0.079%
264	13.463	13.441	13.488	VV	543	12690	0.90%	0.150%
265	13.500	13.488	13.512	VV	466	5687	0.40%	0.067%
266	13.563	13.512	13.592	VV	4801	86697	6.14%	1.024%
267	13.615	13.592	13.685	VV	4623	119223	8.44%	1.408%
268	13.691	13.685	13.709	VV	1014	13533	0.96%	0.160%
269	13.724	13.709	13.728	VV	1015	10142	0.72%	0.120%
270	13.746	13.728	13.753	VV	1267	17447	1.24%	0.206%
271	13.776	13.753	13.863	VV	24583	341096	24.16%	4.027%
272	13.879	13.863	13.897	VV	960	17831	1.26%	0.211%
273	13.902	13.897	13.916	VV	674	6422	0.45%	0.076%
274	13.957	13.916	13.976	VV	1395	30604	2.17%	0.361%
275	13.989	13.976	14.043	VV	672	22226	1.57%	0.262%
276	14.090	14.043	14.115	VV	3014	52367	3.71%	0.618%
277	14.139	14.115	14.190	VV	1572	34878	2.47%	0.412%
278	14.193	14.190	14.214	VV	448	5628	0.40%	0.066%
279	14.228	14.214	14.238	VV	413	5360	0.38%	0.063%
280	14.248	14.238	14.252	VV	420	3102	0.22%	0.037%
281	14.256	14.252	14.262	VV	462	2464	0.17%	0.029%
282	14.264	14.262	14.280	VV	436	3746	0.27%	0.044%
283	14.295	14.280	14.312	VV	359	5304	0.38%	0.063%
284	14.359	14.312	14.370	VV	473	11526	0.82%	0.136%
285	14.386	14.370	14.423	VV	545	12637	0.90%	0.149%
286	14.426	14.423	14.453	VV	276	4074	0.29%	0.048%
287	14.499	14.453	14.507	VV	531	10469	0.74%	0.124%
288	14.529	14.507	14.564	VV	1476	31244	2.21%	0.369%
289	14.567	14.564	14.599	VV	615	10841	0.77%	0.128%
290	14.604	14.599	14.640	VV	458	8866	0.63%	0.105%
291	14.656	14.640	14.679	VV	389	6850	0.49%	0.081%
292	14.703	14.679	14.728	VV	3420	48764	3.45%	0.576%
293	14.758	14.728	14.783	VV	1868	35476	2.51%	0.419%
294	14.797	14.783	14.823	VV	824	15040	1.07%	0.178%
295	14.826	14.823	14.838	VV	466	3640	0.26%	0.043%
296	14.866	14.838	14.887	VV	543	11631	0.82%	0.137%
297	14.920	14.887	14.950	VV	1213	22639	1.60%	0.267%
298	14.959	14.950	14.980	VV	332	5496	0.39%	0.065%
299	14.993	14.980	15.003	VV	451	3564	0.25%	0.042%

					rteres			
300	15.040	15.003	15.076	VV	97678	1359129	96.26%	16.048%
301	15.084	15.076	15.118	VV	1042	15950	1.13%	0.188%
302	15.136	15.118	15.160	VV	459	8139	0.58%	0.096%
303	15.206	15.160	15.221	VV	1474	26250	1.86%	0.310%
304	15.243	15.221	15.272	VV	3961	58094	4.11%	0.686%
305	15.288	15.272	15.313	VV	1471	19887	1.41%	0.235%
306	15.337	15.313	15.359	VV	297	5848	0.41%	0.069%
307	15.367	15.359	15.374	VV	105	824	0.06%	0.010%
308	15.382	15.374	15.417	VV	144	2090	0.15%	0.025%
309	15.439	15.417	15.458	PV	207	3364	0.24%	0.040%
310	15.477	15.458	15.484	VV	195	2494	0.18%	0.029%
311	15.489	15.484	15.493	VV	147	774	0.05%	0.009%
312	15.498	15.493	15.517	VV	182	1731	0.12%	0.020%
313	15.536	15.517	15.568	VV	219	3634	0.26%	0.043%
314	15.620	15.568	15.736	VV	35181	551957	39.09%	6.517%
315	15.764	15.736	15.800	VV	5635	80429	5.70%	0.950%
316	15.838	15.800	15.871	VV	6233	89467	6.34%	1.056%
317	15.887	15.871	15.920	VV	495	10037	0.71%	0.119%
318	15.929	15.920	15.936	VV	207	1669	0.12%	0.020%
319	15.940	15.936	15.945	VV	199	1028	0.07%	0.012%
320	15.951	15.945	15.959	VV	224	1389	0.10%	0.016%
321	15.984	15.959	15.998	VV	362	5811	0.41%	0.069%
322	16.003	15.998	16.010	VV	325	2029	0.14%	0.024%
323	16.014	16.010	16.018	VV	281	1291	0.09%	0.015%
324	16.026	16.018	16.037	VV	284	2879	0.20%	0.034%
325	16.052	16.037	16.076	VV	442	7599	0.54%	0.090%
326	16.081	16.076	16.109	VV	285	3491	0.25%	0.041%
327	16.140	16.109	16.166	VV	745	14561	1.03%	0.172%
328	16.171	16.166	16.204	VV	445	6761	0.48%	0.080%
329	16.226	16.204	16.236	VV	184	2966	0.21%	0.035%
330	16.265	16.236	16.310	VV	5672	75107	5.32%	0.887%
331	16.330	16.310	16.356	PV	313	4432	0.31%	0.052%
332	16.360	16.356	16.367	VV	95	353	0.02%	0.004%
333	16.370	16.367	16.378	VV	78	204	0.01%	0.002%
334	16.388	16.378	16.393	VV	91	410	0.03%	0.005%
335	16.408	16.393	16.422	PV	189	1822	0.13%	0.022%
336	16.453	16.422	16.498	VV	436	8886	0.63%	0.105%
337	16.501	16.498	16.505	VV	55	144	0.01%	0.002%
338	16.510	16.505	16.514	VV	66	207	0.01%	0.002%
339	16.526	16.514	16.533	PV	89	529	0.04%	0.006%
340	16.567	16.533	16.592	VV	623	11562	0.82%	0.137%
341	16.637	16.592	16.679	VV	2578	52757	3.74%	0.623%
342	16.712	16.679	16.723	VV	1003	17950	1.27%	0.212%
343	16.748	16.723	16.781	VV	6468	90405	6.40%	1.067%
344	16.790	16.781	16.794	VV	202	1192	0.08%	0.014%
345	16.828	16.794	16.852	VV	1691	26259	1.86%	0.310%
346	16.878	16.852	16.928	VV	1576	26264	1.86%	0.310%
347	16.932	16.928	16.946	VV	97	748	0.05%	0.009%
348	16.956	16.946	16.966	VV	121	903	0.06%	0.011%
349	16.994	16.966	16.999	PV	285	3185	0.23%	0.038%
350	17.026	16.999	17.031	VV	423	6866	0.49%	0.081%
351	17.048	17.031	17.077	VV	591	9475	0.67%	0.112%

						rteres		
352	17.108	17.077	17.140	VV	462	12385	0.88%	0.146%
353	17.148	17.140	17.158	VV	409	3609	0.26%	0.043%
354	17.180	17.158	17.189	VV	640	9120	0.65%	0.108%
355	17.216	17.189	17.242	VV	6166	88305	6.25%	1.043%
356	17.266	17.242	17.317	VV	3842	63856	4.52%	0.754%
357	17.332	17.317	17.336	VV	227	2265	0.16%	0.027%
358	17.345	17.336	17.375	VV	249	3186	0.23%	0.038%
359	17.380	17.375	17.388	VV	58	275	0.02%	0.003%
					Sum of corrected areas:	8469177		

FG111324.M Mon Nov 18 06:47:13 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/13/24
Project:	North Point	Date Received:	11/13/24
Client Sample ID:	EX-4-TPH-4	SDG No.:	P4839
Lab Sample ID:	P4839-20	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	83.9
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014857.D	1	11/14/24 13:15	11/18/24 17:40	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2720		220	1990	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.1		37 - 130	51%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014857.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 17:40
Operator : YP\AJ
Sample : P4839-20
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-4-TPH-4

Integration File: autoint1.e
Quant Time: Nov 19 01:32:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.041	1137847	10.144 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

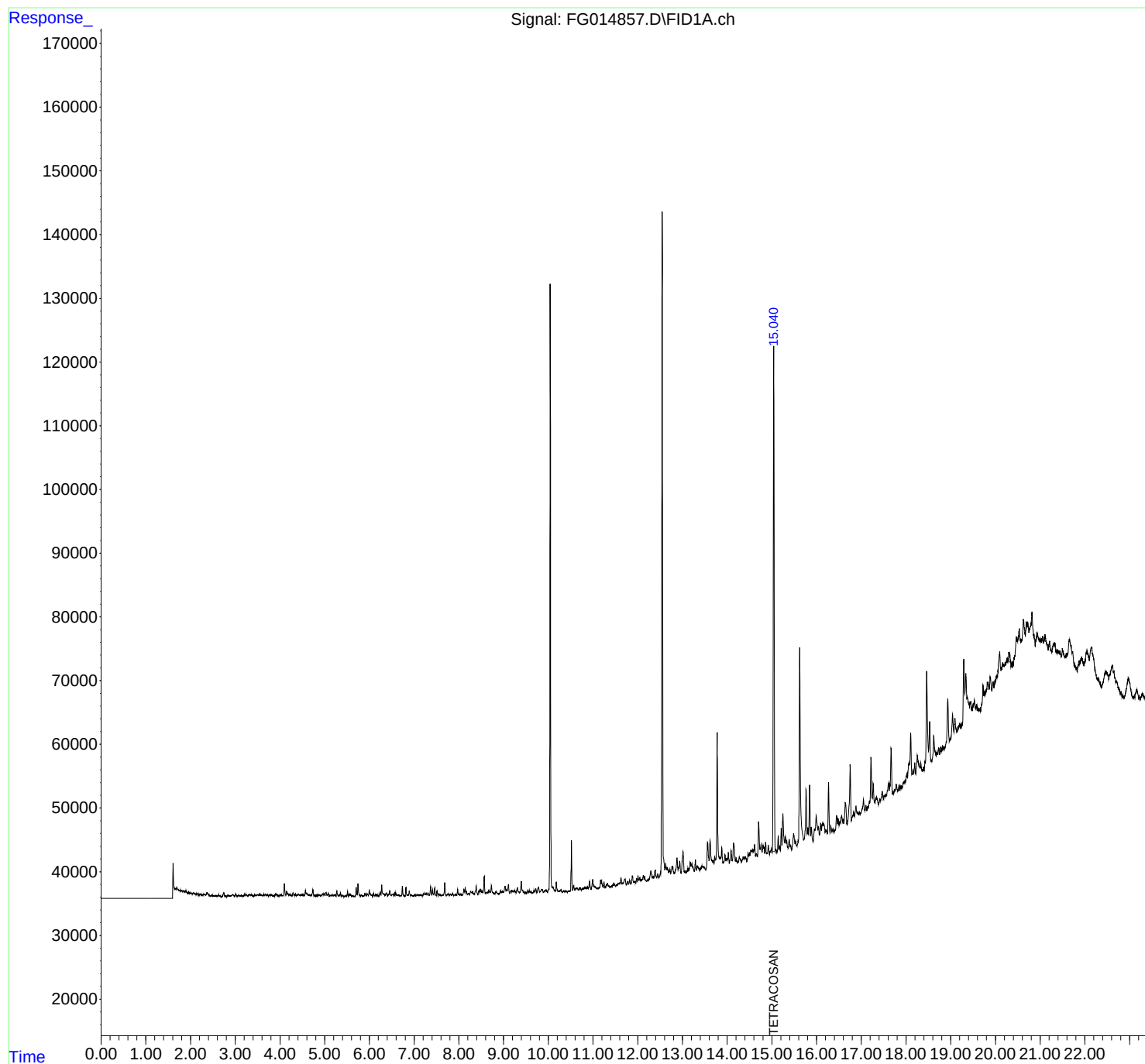
(m)=manual int.

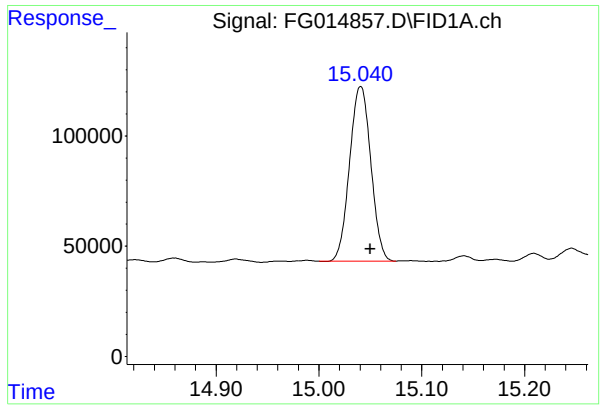
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014857.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 17:40
Operator : YP\AJ
Sample : P4839-20
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-4-TPH-4

Integration File: autoint1.e
Quant Time: Nov 19 01:32:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.041 min
Delta R.T.: -0.009 min
Response: 1137847
Conc: 10.14 ug/ml

Instrument :
FID_G
ClientSampleId :
EX-4-TPH-4

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
 Data File : FG014857.D
 Signal(s) : FID1A.ch
 Acq On : 18 Nov 2024 17:40
 Sample : P4839-20
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.420	4.400	4.450	BV	81	1019	0.08%	0.010%
2	4.478	4.450	4.497	PV	130	1744	0.13%	0.018%
3	4.511	4.497	4.543	VV	163	1857	0.14%	0.019%
4	4.569	4.543	4.588	VV	869	9985	0.76%	0.103%
5	4.605	4.588	4.629	VV	391	6806	0.52%	0.070%
6	4.650	4.629	4.665	VV	202	3075	0.23%	0.032%
7	4.686	4.665	4.691	VV	153	1792	0.14%	0.018%
8	4.695	4.691	4.710	VV	171	1176	0.09%	0.012%
9	4.738	4.710	4.767	VV	1029	14382	1.09%	0.148%
10	4.771	4.767	4.779	VV	122	706	0.05%	0.007%
11	4.783	4.779	4.804	VV	132	1601	0.12%	0.016%
12	4.810	4.804	4.819	VV	157	1188	0.09%	0.012%
13	4.823	4.819	4.838	VV	191	1355	0.10%	0.014%
14	4.855	4.838	4.869	PV	310	3065	0.23%	0.031%
15	4.883	4.869	4.893	VV	197	2049	0.16%	0.021%
16	4.898	4.893	4.913	VV	140	1435	0.11%	0.015%
17	4.956	4.913	4.970	VV	423	9322	0.71%	0.096%
18	4.983	4.970	5.001	VV	529	7109	0.54%	0.073%
19	5.032	5.001	5.057	VV	640	11953	0.91%	0.123%
20	5.080	5.057	5.106	VV	560	8420	0.64%	0.087%
21	5.108	5.106	5.112	VV	125	388	0.03%	0.004%
22	5.128	5.112	5.138	VV	196	1877	0.14%	0.019%
23	5.152	5.138	5.164	VV	219	2310	0.18%	0.024%
24	5.182	5.164	5.200	VV	234	3414	0.26%	0.035%
25	5.227	5.200	5.256	VV	311	6308	0.48%	0.065%
26	5.273	5.256	5.310	VV	896	12337	0.94%	0.127%
27	5.324	5.310	5.340	VV	393	4696	0.36%	0.048%
28	5.354	5.340	5.374	VV	610	6486	0.49%	0.067%
29	5.393	5.374	5.429	VV	231	4689	0.36%	0.048%
30	5.438	5.429	5.442	VV	105	520	0.04%	0.005%
31	5.457	5.442	5.464	VV	143	1076	0.08%	0.011%
32	5.475	5.464	5.488	VV	165	1763	0.13%	0.018%
33	5.514	5.488	5.535	VV	849	10840	0.83%	0.111%
34	5.556	5.535	5.575	VV	397	6963	0.53%	0.072%
35	5.587	5.575	5.603	VV	372	4174	0.32%	0.043%
36	5.608	5.603	5.617	VV	133	914	0.07%	0.009%

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37	5.623	5.617	5.637	VV	172	1513	0.12%	0.016%
38	5.642	5.637	5.648	VV	144	619	0.05%	0.006%
39	5.650	5.648	5.668	VV	128	1113	0.08%	0.011%
40	5.672	5.668	5.680	VV	91	358	0.03%	0.004%
41	5.706	5.680	5.726	PV	1497	18409	1.40%	0.189%
42	5.745	5.726	5.787	VV	2084	29101	2.22%	0.299%
43	5.791	5.787	5.807	VV	202	1615	0.12%	0.017%
44	5.824	5.807	5.849	VV	278	4517	0.34%	0.046%
45	5.853	5.849	5.870	VV	146	1228	0.09%	0.013%
46	5.900	5.870	5.923	VV	499	9116	0.69%	0.094%
47	5.932	5.923	5.939	VV	348	2867	0.22%	0.029%
48	5.953	5.939	5.980	VV	473	8300	0.63%	0.085%
49	5.999	5.980	6.018	VV	1031	13258	1.01%	0.136%
50	6.023	6.018	6.046	VV	455	5309	0.40%	0.055%
51	6.051	6.046	6.065	VV	268	2420	0.18%	0.025%
52	6.092	6.065	6.111	VV	528	8263	0.63%	0.085%
53	6.122	6.111	6.127	VV	206	1710	0.13%	0.018%
54	6.145	6.127	6.172	VV	398	7569	0.58%	0.078%
55	6.188	6.172	6.209	VV	311	3571	0.27%	0.037%
56	6.241	6.209	6.258	VV	737	10708	0.82%	0.110%
57	6.276	6.258	6.308	VV	1846	25240	1.92%	0.259%
58	6.313	6.308	6.324	VV	441	3823	0.29%	0.039%
59	6.329	6.324	6.356	VV	427	5900	0.45%	0.061%
60	6.379	6.356	6.412	VV	543	11423	0.87%	0.117%
61	6.426	6.412	6.436	VV	409	4630	0.35%	0.048%
62	6.455	6.436	6.491	VV	903	15286	1.16%	0.157%
63	6.506	6.491	6.520	VV	345	4590	0.35%	0.047%
64	6.530	6.520	6.534	VV	349	2468	0.19%	0.025%
65	6.538	6.534	6.556	VV	343	3156	0.24%	0.032%
66	6.576	6.556	6.594	VV	704	9564	0.73%	0.098%
67	6.598	6.594	6.620	VV	357	3736	0.28%	0.038%
68	6.632	6.620	6.641	VV	225	2344	0.18%	0.024%
69	6.652	6.641	6.665	VV	224	2521	0.19%	0.026%
70	6.669	6.665	6.675	VV	215	986	0.08%	0.010%
71	6.680	6.675	6.709	VV	171	2550	0.19%	0.026%
72	6.738	6.709	6.769	VV	1630	19596	1.49%	0.201%
73	6.774	6.769	6.787	VV	107	712	0.05%	0.007%
74	6.792	6.787	6.795	PV	45	141	0.01%	0.001%
75	6.818	6.795	6.842	VV	1449	16376	1.25%	0.168%
76	6.850	6.842	6.863	VV	232	2414	0.18%	0.025%
77	6.866	6.863	6.876	VV	209	1617	0.12%	0.017%
78	6.892	6.876	6.923	VV	878	11782	0.90%	0.121%
79	6.936	6.923	6.958	VV	262	3731	0.28%	0.038%
80	6.965	6.958	6.989	VV	137	1421	0.11%	0.015%
81	7.001	6.989	7.010	PV	128	1163	0.09%	0.012%
82	7.023	7.010	7.041	VV	295	3420	0.26%	0.035%
83	7.063	7.041	7.094	VV	325	5707	0.43%	0.059%
84	7.103	7.094	7.110	VV	191	1361	0.10%	0.014%
85	7.120	7.110	7.127	VV	216	1718	0.13%	0.018%
86	7.142	7.127	7.158	VV	255	3361	0.26%	0.035%
87	7.165	7.158	7.183	VV	181	2088	0.16%	0.021%
88	7.193	7.183	7.199	VV	144	1059	0.08%	0.011%
89	7.220	7.199	7.238	VV	501	7830	0.60%	0.080%

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90	7.245	7.238	7.258	VV	358	3503	0.27%	0.036%
91	7.271	7.258	7.294	VV	520	7477	0.57%	0.077%
92	7.316	7.294	7.334	VV	508	7830	0.60%	0.080%
93	7.339	7.334	7.342	VV	134	609	0.05%	0.006%
94	7.371	7.342	7.396	VV	1500	20937	1.59%	0.215%
95	7.413	7.396	7.439	VV	975	12881	0.98%	0.132%
96	7.462	7.439	7.494	VV	1290	17527	1.33%	0.180%
97	7.512	7.494	7.536	VV	819	9891	0.75%	0.102%
98	7.555	7.536	7.582	VV	402	5771	0.44%	0.059%
99	7.586	7.582	7.599	VV	146	1004	0.08%	0.010%
100	7.603	7.599	7.610	VV	104	374	0.03%	0.004%
101	7.640	7.610	7.646	PV	197	2488	0.19%	0.026%
102	7.687	7.646	7.714	VV	2090	26975	2.05%	0.277%
103	7.727	7.714	7.731	VV	155	1224	0.09%	0.013%
104	7.758	7.731	7.788	VV	307	6248	0.48%	0.064%
105	7.805	7.788	7.827	VV	297	3876	0.30%	0.040%
106	7.832	7.827	7.844	VV	188	1499	0.11%	0.015%
107	7.863	7.844	7.891	VV	418	5672	0.43%	0.058%
108	7.912	7.891	7.926	PV	184	2111	0.16%	0.022%
109	7.939	7.926	7.954	VV	171	2164	0.16%	0.022%
110	7.975	7.954	7.999	VV	1023	12168	0.93%	0.125%
111	8.003	7.999	8.015	VV	212	1345	0.10%	0.014%
112	8.036	8.015	8.049	VV	209	2810	0.21%	0.029%
113	8.058	8.049	8.087	VV	158	2225	0.17%	0.023%
114	8.115	8.087	8.131	VV	910	13845	1.05%	0.142%
115	8.144	8.131	8.160	VV	1175	13772	1.05%	0.141%
116	8.173	8.160	8.201	VV	650	8904	0.68%	0.091%
117	8.217	8.201	8.237	VV	327	4346	0.33%	0.045%
118	8.266	8.237	8.287	VV	625	12046	0.92%	0.124%
119	8.293	8.287	8.296	VV	432	2250	0.17%	0.023%
120	8.304	8.296	8.339	VV	507	9144	0.70%	0.094%
121	8.344	8.339	8.349	VV	207	1062	0.08%	0.011%
122	8.389	8.349	8.422	VV	1444	25676	1.95%	0.264%
123	8.459	8.422	8.474	VV	729	14563	1.11%	0.150%
124	8.488	8.474	8.504	VV	871	11623	0.88%	0.119%
125	8.518	8.504	8.532	VV	705	8714	0.66%	0.090%
126	8.569	8.532	8.601	VV	2928	41642	3.17%	0.428%
127	8.626	8.601	8.643	VV	414	7923	0.60%	0.081%
128	8.674	8.643	8.702	VV	778	16564	1.26%	0.170%
129	8.730	8.702	8.758	VV	1427	23719	1.81%	0.244%
130	8.766	8.758	8.780	VV	345	3112	0.24%	0.032%
131	8.788	8.780	8.793	VV	202	1221	0.09%	0.013%
132	8.836	8.793	8.873	VV	519	13385	1.02%	0.138%
133	8.877	8.873	8.885	VV	123	466	0.04%	0.005%
134	8.906	8.885	8.915	PV	207	2041	0.16%	0.021%
135	8.932	8.915	8.947	VV	578	7356	0.56%	0.076%
136	8.967	8.947	8.987	VV	494	8633	0.66%	0.089%
137	9.004	8.987	9.011	VV	453	5328	0.41%	0.055%
138	9.035	9.011	9.055	VV	1258	22970	1.75%	0.236%
139	9.068	9.055	9.083	VV	735	9971	0.76%	0.102%
140	9.111	9.083	9.138	VV	1487	26068	1.98%	0.268%
141	9.142	9.138	9.147	VV	237	1103	0.08%	0.011%

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142	9.170	9.147	9.183	VV	600	8897	0.68%	0.091%
143	9.193	9.183	9.206	VV	566	6662	0.51%	0.068%
144	9.213	9.206	9.237	VV	435	7004	0.53%	0.072%
145	9.249	9.237	9.275	VV	597	9249	0.70%	0.095%
146	9.309	9.275	9.334	VV	968	19359	1.47%	0.199%
147	9.340	9.334	9.359	VV	337	3688	0.28%	0.038%
148	9.367	9.359	9.371	VV	273	1661	0.13%	0.017%
149	9.397	9.371	9.422	VV	1923	28390	2.16%	0.292%
150	9.426	9.422	9.461	VV	546	7038	0.54%	0.072%
151	9.466	9.461	9.472	VV	178	847	0.06%	0.009%
152	9.488	9.472	9.517	VV	255	3742	0.28%	0.038%
153	9.543	9.517	9.562	VV	515	6474	0.49%	0.067%
154	9.578	9.562	9.588	VV	443	4400	0.33%	0.045%
155	9.597	9.588	9.611	VV	266	2704	0.21%	0.028%
156	9.615	9.611	9.642	VV	201	2448	0.19%	0.025%
157	9.683	9.642	9.702	VV	462	7412	0.56%	0.076%
158	9.721	9.702	9.742	VV	701	9353	0.71%	0.096%
159	9.784	9.742	9.808	VV	862	19785	1.51%	0.203%
160	9.814	9.808	9.825	VV	232	2039	0.16%	0.021%
161	9.845	9.825	9.859	VV	560	8633	0.66%	0.089%
162	9.867	9.859	9.892	VV	519	6558	0.50%	0.067%
163	9.908	9.892	9.927	VV	295	4868	0.37%	0.050%
164	9.941	9.927	9.955	VV	445	6275	0.48%	0.064%
165	9.965	9.955	9.984	VV	378	4936	0.38%	0.051%
166	10.044	9.984	10.106	VV	95456	1034211	78.72%	10.625%
167	10.110	10.106	10.158	VV	755	14072	1.07%	0.145%
168	10.180	10.158	10.205	VV	1702	23070	1.76%	0.237%
169	10.209	10.205	10.226	VV	318	2779	0.21%	0.029%
170	10.254	10.226	10.258	VV	289	3723	0.28%	0.038%
171	10.282	10.258	10.312	VV	448	7936	0.60%	0.082%
172	10.316	10.312	10.323	VV	65	365	0.03%	0.004%
173	10.328	10.323	10.332	VV	92	356	0.03%	0.004%
174	10.353	10.332	10.370	VV	260	3867	0.29%	0.040%
175	10.388	10.370	10.411	VV	177	2763	0.21%	0.028%
176	10.418	10.411	10.429	VV	62	445	0.03%	0.005%
177	10.433	10.429	10.441	VV	81	219	0.02%	0.002%
178	10.450	10.441	10.456	PV	125	742	0.06%	0.008%
179	10.462	10.456	10.466	VV	112	607	0.05%	0.006%
180	10.480	10.466	10.490	VV	198	2174	0.17%	0.022%
181	10.519	10.490	10.547	VV	8076	91072	6.93%	0.936%
182	10.570	10.547	10.591	VV	956	14953	1.14%	0.154%
183	10.620	10.591	10.640	VV	552	11333	0.86%	0.116%
184	10.646	10.640	10.673	VV	461	6599	0.50%	0.068%
185	10.699	10.673	10.733	VV	474	11253	0.86%	0.116%
186	10.739	10.733	10.748	VV	222	1611	0.12%	0.017%
187	10.764	10.748	10.780	VV	366	4725	0.36%	0.049%
188	10.818	10.780	10.838	VV	523	11971	0.91%	0.123%
189	10.846	10.838	10.859	VV	394	3998	0.30%	0.041%
190	10.876	10.859	10.887	VV	574	6798	0.52%	0.070%
191	10.921	10.887	10.960	VV	1322	23400	1.78%	0.240%
192	10.995	10.960	11.025	VV	1588	29432	2.24%	0.302%
193	11.030	11.025	11.047	VV	487	5138	0.39%	0.053%
194	11.052	11.047	11.090	VV	309	4450	0.34%	0.046%

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195	11.094	11.090	11.102	VV	48	209	0.02%	0.002%
196	11.118	11.102	11.128	PV	81	829	0.06%	0.009%
197	11.140	11.128	11.144	VV	188	1245	0.09%	0.013%
198	11.171	11.144	11.182	VV	1312	15735	1.20%	0.162%
199	11.193	11.182	11.226	VV	1264	18137	1.38%	0.186%
200	11.245	11.226	11.286	VV	937	13858	1.05%	0.142%
201	11.305	11.286	11.310	VV	441	4751	0.36%	0.049%
202	11.323	11.310	11.346	VV	664	10063	0.77%	0.103%
203	11.351	11.346	11.368	VV	278	2584	0.20%	0.027%
204	11.373	11.368	11.382	VV	139	922	0.07%	0.009%
205	11.395	11.382	11.402	VV	136	1327	0.10%	0.014%
206	11.406	11.402	11.412	VV	94	434	0.03%	0.004%
207	11.415	11.412	11.420	VV	95	374	0.03%	0.004%
208	11.459	11.420	11.478	VV	589	10573	0.80%	0.109%
209	11.487	11.478	11.507	VV	399	3710	0.28%	0.038%
210	11.528	11.507	11.545	PV	338	4393	0.33%	0.045%
211	11.562	11.545	11.587	VV	568	9930	0.76%	0.102%
212	11.597	11.587	11.608	VV	532	5211	0.40%	0.054%
213	11.625	11.608	11.654	VV	1262	19140	1.46%	0.197%
214	11.668	11.654	11.676	VV	481	5243	0.40%	0.054%
215	11.718	11.676	11.746	VV	1053	26128	1.99%	0.268%
216	11.777	11.746	11.795	PV	611	9746	0.74%	0.100%
217	11.822	11.795	11.844	VV	710	9802	0.75%	0.101%
218	11.880	11.844	11.917	VV	1331	24051	1.83%	0.247%
219	11.925	11.917	11.930	VV	340	2326	0.18%	0.024%
220	11.937	11.930	11.951	VV	356	3313	0.25%	0.034%
221	11.955	11.951	11.957	VV	227	729	0.06%	0.007%
222	11.976	11.957	11.991	VV	800	9751	0.74%	0.100%
223	12.006	11.991	12.028	VV	1131	15556	1.18%	0.160%
224	12.046	12.028	12.073	VV	836	15155	1.15%	0.156%
225	12.080	12.073	12.092	VV	502	4858	0.37%	0.050%
226	12.095	12.092	12.100	VV	418	1971	0.15%	0.020%
227	12.125	12.100	12.139	VV	1011	16128	1.23%	0.166%
228	12.156	12.139	12.196	VV	852	12568	0.96%	0.129%
229	12.200	12.196	12.209	VV	102	454	0.03%	0.005%
230	12.218	12.209	12.223	PV	142	851	0.06%	0.009%
231	12.238	12.223	12.253	VV	327	3951	0.30%	0.041%
232	12.294	12.253	12.323	VV	1521	35656	2.71%	0.366%
233	12.341	12.323	12.360	VV	597	10251	0.78%	0.105%
234	12.390	12.360	12.428	VV	1546	31551	2.40%	0.324%
235	12.447	12.428	12.468	VV	866	13056	0.99%	0.134%
236	12.472	12.468	12.475	VV	318	1108	0.08%	0.011%
237	12.508	12.475	12.513	VV	914	11639	0.89%	0.120%
238	12.548	12.513	12.607	VV	104604	1313748	100.00%	13.497%
239	12.626	12.607	12.643	VV	2239	37910	2.89%	0.389%
240	12.654	12.643	12.668	VV	1528	21004	1.60%	0.216%
241	12.674	12.668	12.692	VV	1267	14880	1.13%	0.153%
242	12.718	12.692	12.737	VV	1220	24512	1.87%	0.252%
243	12.767	12.737	12.775	VV	1569	23779	1.81%	0.244%
244	12.782	12.775	12.817	VV	1579	23874	1.82%	0.245%
245	12.877	12.817	12.899	VV	2792	64111	4.88%	0.659%
246	12.915	12.899	12.922	VV	1280	15728	1.20%	0.162%

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247	12.939	12.922	12.962	VV	2169	31430	2.39%	0.323%
248	12.967	12.962	12.971	VV	381	1597	0.12%	0.016%
249	13.013	12.971	13.046	VV	3565	79611	6.06%	0.818%
250	13.059	13.046	13.082	VV	493	6321	0.48%	0.065%
251	13.098	13.082	13.108	VV	453	4939	0.38%	0.051%
252	13.124	13.108	13.137	VV	851	9687	0.74%	0.100%
253	13.175	13.137	13.190	VV	1732	30658	2.33%	0.315%
254	13.211	13.190	13.232	VV	1439	29020	2.21%	0.298%
255	13.234	13.232	13.263	VV	903	9474	0.72%	0.097%
256	13.290	13.263	13.315	VV	1851	25956	1.98%	0.267%
257	13.331	13.315	13.349	VV	856	13929	1.06%	0.143%
258	13.354	13.349	13.381	VV	709	8907	0.68%	0.092%
259	13.387	13.381	13.396	VV	416	2836	0.22%	0.029%
260	13.439	13.396	13.456	VV	764	18394	1.40%	0.189%
261	13.465	13.456	13.482	VV	639	8300	0.63%	0.085%
262	13.488	13.482	13.520	VV	447	5664	0.43%	0.058%
263	13.562	13.520	13.595	PV	4294	85877	6.54%	0.882%
264	13.619	13.595	13.655	VV	4521	91878	6.99%	0.944%
265	13.662	13.655	13.679	VV	1317	17008	1.29%	0.175%
266	13.689	13.679	13.705	VV	1317	16375	1.25%	0.168%
267	13.722	13.705	13.737	VV	1810	26056	1.98%	0.268%
268	13.748	13.737	13.752	VV	1483	12584	0.96%	0.129%
269	13.776	13.752	13.825	VV	21227	298518	22.72%	3.067%
270	13.835	13.825	13.838	VV	1538	11627	0.89%	0.119%
271	13.850	13.838	13.858	VV	1562	17135	1.30%	0.176%
272	13.878	13.858	13.904	VV	3046	51213	3.90%	0.526%
273	13.911	13.904	13.915	VV	571	3579	0.27%	0.037%
274	13.951	13.915	13.970	VV	1809	35749	2.72%	0.367%
275	13.987	13.970	14.001	VV	1205	19238	1.46%	0.198%
276	14.005	14.001	14.010	VV	1047	5321	0.41%	0.055%
277	14.026	14.010	14.048	VV	2062	29309	2.23%	0.301%
278	14.089	14.048	14.109	VV	2285	43181	3.29%	0.444%
279	14.141	14.109	14.183	VV	3382	82339	6.27%	0.846%
280	14.199	14.183	14.237	VV	981	15546	1.18%	0.160%
281	14.270	14.237	14.291	VV	1037	19497	1.48%	0.200%
282	14.297	14.291	14.310	VV	564	4914	0.37%	0.050%
283	14.316	14.310	14.320	VV	267	1360	0.10%	0.014%
284	14.358	14.320	14.367	VV	864	15236	1.16%	0.157%
285	14.371	14.367	14.393	VV	821	10069	0.77%	0.103%
286	14.408	14.393	14.439	VV	890	16176	1.23%	0.166%
287	14.466	14.439	14.481	PV	1358	18499	1.41%	0.190%
288	14.499	14.481	14.511	VV	1354	19541	1.49%	0.201%
289	14.529	14.511	14.536	VV	1686	19498	1.48%	0.200%
290	14.545	14.536	14.562	VV	1634	24331	1.85%	0.250%
291	14.571	14.562	14.589	VV	1742	24707	1.88%	0.254%
292	14.613	14.589	14.643	VV	2425	45486	3.46%	0.467%
293	14.658	14.643	14.674	VV	897	12447	0.95%	0.128%
294	14.703	14.674	14.736	VV	5830	101858	7.75%	1.046%
295	14.757	14.736	14.784	VV	2189	43715	3.33%	0.449%
296	14.801	14.784	14.813	VV	1944	26784	2.04%	0.275%
297	14.822	14.813	14.837	VV	1644	18345	1.40%	0.188%
298	14.860	14.837	14.882	VV	2275	33749	2.57%	0.347%
299	14.888	14.882	14.894	VV	520	3584	0.27%	0.037%

					rteres			
300	14.919	14.894	14.944	VV	1736	27284	2.08%	0.280%
301	14.959	14.944	14.972	VV	699	9334	0.71%	0.096%
302	14.988	14.972	15.007	VV	1086	15232	1.16%	0.156%
303	15.041	15.007	15.075	VV	79855	1159699	88.27%	11.914%
304	15.089	15.075	15.116	VV	688	12522	0.95%	0.129%
305	15.141	15.116	15.158	VV	2826	35194	2.68%	0.362%
306	15.172	15.158	15.189	VV	1125	14496	1.10%	0.149%
307	15.209	15.189	15.224	VV	3823	45311	3.45%	0.466%
308	15.246	15.224	15.285	VV	6063	115838	8.82%	1.190%
309	15.303	15.285	15.319	VV	2298	36513	2.78%	0.375%
310	15.330	15.319	15.347	VV	1687	21362	1.63%	0.219%
311	15.352	15.347	15.363	VV	610	5464	0.42%	0.056%
312	15.387	15.363	15.405	VV	1722	28436	2.16%	0.292%
313	15.418	15.405	15.434	VV	825	10647	0.81%	0.109%
314	15.438	15.434	15.447	VV	244	1247	0.09%	0.013%
315	15.486	15.447	15.518	PV	2432	56609	4.31%	0.582%
316	15.532	15.518	15.560	VV	1155	17191	1.31%	0.177%
317	15.621	15.560	15.711	VV	31300	563885	42.92%	5.793%
318	15.765	15.711	15.791	VV	8637	158706	12.08%	1.631%
319	15.805	15.791	15.821	VV	2543	34709	2.64%	0.357%
320	15.844	15.821	15.868	VV	9128	133876	10.19%	1.375%
321	15.881	15.868	15.925	VV	2342	37307	2.84%	0.383%
322	15.950	15.925	15.962	PV	1979	27053	2.06%	0.278%
323	15.991	15.962	16.030	VV	3910	101849	7.75%	1.046%
324	16.042	16.030	16.066	VV	2006	29479	2.24%	0.303%
325	16.089	16.066	16.107	VV	2340	38194	2.91%	0.392%
326	16.125	16.107	16.139	VV	2191	35349	2.69%	0.363%
327	16.149	16.139	16.160	VV	2190	25637	1.95%	0.263%
328	16.168	16.160	16.190	VV	1995	26718	2.03%	0.274%
329	16.217	16.190	16.240	VV	972	22817	1.74%	0.234%
330	16.266	16.240	16.300	VV	8315	115344	8.78%	1.185%
331	16.318	16.300	16.340	VV	1243	18879	1.44%	0.194%
332	16.356	16.340	16.368	VV	624	8511	0.65%	0.087%
333	16.375	16.368	16.390	VV	658	4693	0.36%	0.048%
334	16.412	16.390	16.418	PV	394	4238	0.32%	0.044%
335	16.449	16.418	16.467	VV	2455	45013	3.43%	0.462%
336	16.481	16.467	16.507	VV	1873	29800	2.27%	0.306%
337	16.560	16.507	16.577	VV	1919	54931	4.18%	0.564%
338	16.594	16.577	16.607	VV	1335	17796	1.35%	0.183%
339	16.642	16.607	16.687	VV	3630	82771	6.30%	0.850%
340	16.750	16.687	16.779	PV	9138	168841	12.85%	1.735%
341	16.805	16.779	16.810	VV	734	9952	0.76%	0.102%
342	16.828	16.810	16.847	VV	1311	20024	1.52%	0.206%
343	16.880	16.847	16.903	VV	1905	40193	3.06%	0.413%
344	16.922	16.903	16.943	VV	807	14243	1.08%	0.146%
345	16.961	16.943	16.975	VV	618	7833	0.60%	0.080%
346	17.013	16.975	17.017	VV	865	10729	0.82%	0.110%
347	17.047	17.017	17.075	VV	2205	41511	3.16%	0.426%
348	17.080	17.075	17.088	VV	483	2663	0.20%	0.027%
349	17.103	17.088	17.125	VV	949	12154	0.93%	0.125%
350	17.179	17.125	17.187	PV	1077	18065	1.38%	0.186%
351	17.216	17.187	17.247	VV	7745	117050	8.91%	1.203%

					rteres			
352	17.267	17.247	17.291	VV	3226	45847	3.49%	0.471%
					Sum of corrected areas:	9733527		

FG111324.M Tue Nov 19 02:42:35 2024

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-5		SDG No.:	P4839	
Lab Sample ID:	P4839-21		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	84.8	Decanted:
Sample Wt/Vol:	30.04	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
FF015088.D	100	11/16/24 08:20	11/18/24 16:15	PB165028

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	1010000		21800	196000	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	0.00	*	37 - 130	0%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015088.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:15
Operator : YP\AJ
Sample : P4839-21 100X
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-5

Integration File: autoint1.e
Quant Time: Nov 19 00:23:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 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

Target Compounds

(f)=RT Delta > 1/2 Window

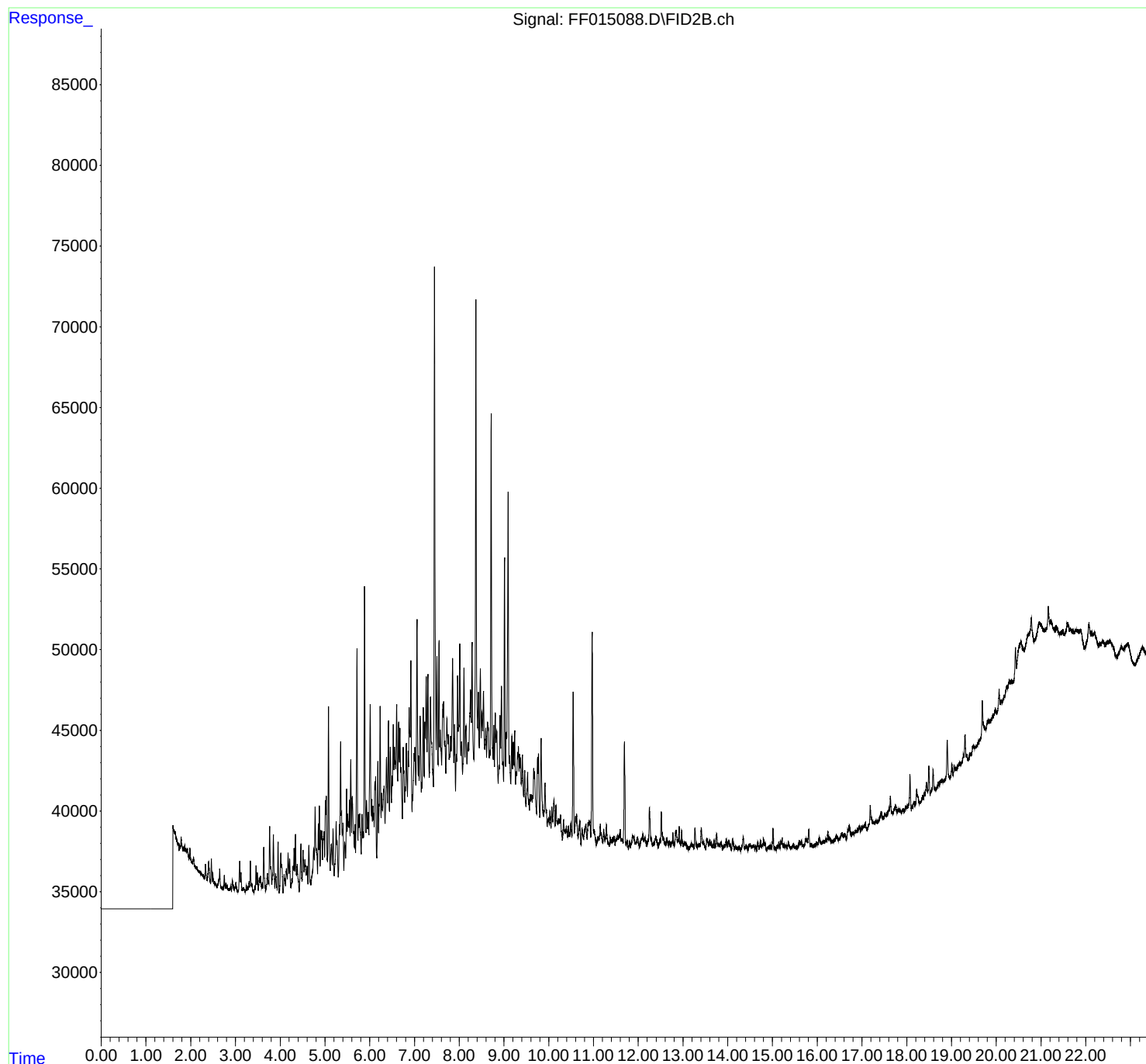
(m)=manual int.

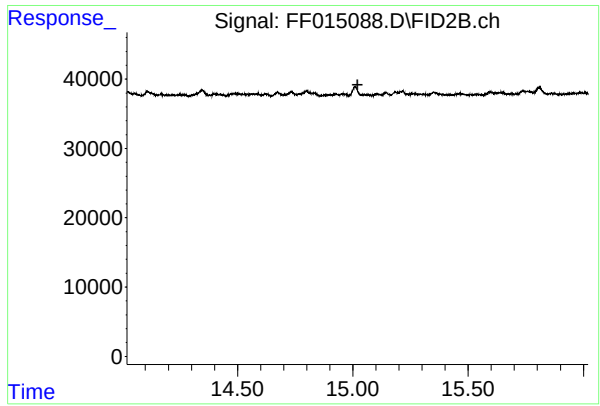
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015088.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:15
Operator : YP\AJ
Sample : P4839-21 100X
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-5

Integration File: autoint1.e
Quant Time: Nov 19 00:23:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 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.: 0.000 min
Exp R.T.: 15.020 min
Response: 0
Conc: N.D.

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-5

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
 Data File : FF015088.D
 Signal(s) : FID2B.ch
 Acq On : 18 Nov 2024 16:15
 Sample : P4839-21 100X
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
 Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.463	4.420	4.488	BH	2863	46543	5.98%	0.143%
2	4.509	4.488	4.534	HH	2410	43668	5.61%	0.134%
3	4.552	4.534	4.582	HH	1880	40483	5.20%	0.124%
4	4.603	4.582	4.622	HH	1408	24025	3.09%	0.074%
5	4.640	4.622	4.668	HH	2740	42536	5.47%	0.130%
6	4.672	4.668	4.686	HH	606	5050	0.65%	0.015%
7	4.720	4.686	4.726	HH	1139	18646	2.40%	0.057%
8	4.745	4.726	4.762	HH	2546	42544	5.47%	0.130%
9	4.781	4.762	4.802	HH	5162	80512	10.35%	0.247%
10	4.804	4.802	4.836	HH	2557	42734	5.49%	0.131%
11	4.852	4.836	4.863	HH	4019	45457	5.84%	0.139%
12	4.876	4.863	4.893	HH	5185	61863	7.95%	0.190%
13	4.910	4.893	4.922	HH	3641	50010	6.43%	0.153%
14	4.929	4.922	4.944	HH	3575	39863	5.12%	0.122%
15	4.979	4.944	4.994	HH	3564	88727	11.41%	0.272%
16	5.011	4.994	5.020	HH	5534	64660	8.31%	0.198%
17	5.030	5.020	5.057	HH	5811	85714	11.02%	0.263%
18	5.080	5.057	5.119	HH	11359	170198	21.88%	0.522%
19	5.144	5.119	5.165	HH	2844	60557	7.78%	0.186%
20	5.182	5.165	5.207	HH	3793	58433	7.51%	0.179%
21	5.250	5.207	5.264	HH	4240	82135	10.56%	0.252%
22	5.272	5.264	5.299	HH	3046	44202	5.68%	0.136%
23	5.324	5.299	5.333	HH	4028	53637	6.90%	0.164%
24	5.350	5.333	5.382	HH	9145	164790	21.18%	0.505%
25	5.405	5.382	5.422	HH	4149	77768	10.00%	0.238%
26	5.441	5.422	5.462	HH	2955	56730	7.29%	0.174%
27	5.484	5.462	5.498	HH	6247	90211	11.60%	0.277%
28	5.508	5.498	5.518	HH	4732	52814	6.79%	0.162%
29	5.525	5.518	5.533	HH	4244	35052	4.51%	0.107%
30	5.547	5.533	5.560	HH	5511	76467	9.83%	0.234%
31	5.577	5.560	5.594	HH	8112	119123	15.31%	0.365%
32	5.610	5.594	5.639	HH	5790	125521	16.14%	0.385%
33	5.644	5.639	5.658	HH	3616	35437	4.56%	0.109%
34	5.672	5.658	5.685	HH	4065	54316	6.98%	0.167%
35	5.716	5.685	5.737	HH	14959	232195	29.85%	0.712%
36	5.752	5.737	5.762	HH	4653	62484	8.03%	0.192%

rteres								
37	5.777	5.762	5.809	HH	4711	104129	13.39%	0.319%
38	5.829	5.809	5.845	HH	4644	79368	10.20%	0.243%
39	5.854	5.845	5.864	HH	3613	37488	4.82%	0.115%
40	5.886	5.864	5.915	HH	18795	276209	35.51%	0.847%
41	5.929	5.915	5.953	HH	5494	105774	13.60%	0.324%
42	5.969	5.953	5.980	HH	4770	67748	8.71%	0.208%
43	6.012	5.980	6.041	HH	11505	253056	32.53%	0.776%
44	6.049	6.041	6.061	HH	5572	59321	7.63%	0.182%
45	6.070	6.061	6.082	HH	5203	59775	7.68%	0.183%
46	6.091	6.082	6.100	HH	4750	49076	6.31%	0.150%
47	6.115	6.100	6.123	HH	6698	77765	10.00%	0.238%
48	6.132	6.123	6.157	HH	7003	97996	12.60%	0.300%
49	6.182	6.157	6.199	HH	7940	122108	15.70%	0.374%
50	6.234	6.199	6.253	HH	11328	220778	28.38%	0.677%
51	6.265	6.253	6.288	HH	5968	110493	14.20%	0.339%
52	6.322	6.288	6.346	HH	6419	189740	24.39%	0.582%
53	6.376	6.346	6.399	HH	8211	200274	25.75%	0.614%
54	6.419	6.399	6.441	HH	10490	190651	24.51%	0.585%
55	6.460	6.441	6.485	HH	8810	188278	24.20%	0.577%
56	6.501	6.485	6.509	HH	7066	90861	11.68%	0.279%
57	6.527	6.509	6.544	HH	10179	177885	22.87%	0.545%
58	6.556	6.544	6.581	HH	8806	179856	23.12%	0.551%
59	6.603	6.581	6.627	HH	11488	240751	30.95%	0.738%
60	6.648	6.627	6.664	HH	10387	196114	25.21%	0.601%
61	6.676	6.664	6.692	HH	9966	145157	18.66%	0.445%
62	6.699	6.692	6.732	HH	7575	150012	19.28%	0.460%
63	6.749	6.732	6.761	HH	8838	126985	16.32%	0.389%
64	6.766	6.761	6.781	HH	7377	77932	10.02%	0.239%
65	6.794	6.781	6.798	HH	6410	63107	8.11%	0.194%
66	6.818	6.798	6.844	HH	9098	202630	26.05%	0.621%
67	6.859	6.844	6.868	HH	8591	107811	13.86%	0.331%
68	6.882	6.868	6.894	HH	11290	154672	19.88%	0.474%
69	6.898	6.894	6.906	HH	9884	68194	8.77%	0.209%
70	6.920	6.906	6.946	HH	14225	242620	31.19%	0.744%
71	6.957	6.946	6.963	HH	5901	58292	7.49%	0.179%
72	6.993	6.963	7.001	HH	8413	165261	21.24%	0.507%
73	7.011	7.001	7.030	HH	8750	136303	17.52%	0.418%
74	7.058	7.030	7.083	HH	16734	343888	44.21%	1.054%
75	7.093	7.083	7.106	HH	8305	104193	13.39%	0.319%
76	7.128	7.106	7.153	HH	10763	247474	31.81%	0.759%
77	7.163	7.153	7.172	HH	6607	72857	9.37%	0.223%
78	7.198	7.172	7.216	HH	11197	234353	30.13%	0.719%
79	7.233	7.216	7.244	HH	10387	151822	19.52%	0.466%
80	7.264	7.244	7.282	HH	13214	250114	32.15%	0.767%
81	7.301	7.282	7.332	HH	13360	301756	38.79%	0.925%
82	7.358	7.332	7.425	HH	11910	485249	62.38%	1.488%
83	7.449	7.425	7.486	HH	38606	672613	86.47%	2.062%
84	7.503	7.486	7.527	HH	14417	273957	35.22%	0.840%
85	7.549	7.527	7.566	HH	15467	262859	33.79%	0.806%
86	7.576	7.566	7.592	HH	9936	144215	18.54%	0.442%
87	7.595	7.592	7.609	HH	8797	86957	11.18%	0.267%
88	7.636	7.609	7.646	HH	11498	224216	28.82%	0.688%
89	7.654	7.646	7.672	HH	11650	166732	21.43%	0.511%

					rteres			
90	7.679	7.672	7.702	HH	9209	152675	19.63%	0.468%
91	7.725	7.702	7.751	HH	10568	274532	35.29%	0.842%
92	7.761	7.751	7.778	HH	9627	144522	18.58%	0.443%
93	7.808	7.778	7.822	HH	9521	226784	29.15%	0.695%
94	7.853	7.822	7.882	HH	14338	388971	50.00%	1.193%
95	7.898	7.882	7.919	HH	10179	191923	24.67%	0.588%
96	7.935	7.919	7.945	HH	8425	118153	15.19%	0.362%
97	7.965	7.945	7.982	HH	13235	238692	30.68%	0.732%
98	7.990	7.982	7.995	HH	10166	80654	10.37%	0.247%
99	8.015	7.995	8.037	HH	15159	294770	37.89%	0.904%
100	8.054	8.037	8.076	HH	9140	198934	25.57%	0.610%
101	8.108	8.076	8.129	HH	13739	316010	40.62%	0.969%
102	8.154	8.129	8.175	HH	10158	257176	33.06%	0.789%
103	8.197	8.175	8.209	HH	9142	178095	22.89%	0.546%
104	8.254	8.209	8.271	HH	12403	391264	50.30%	1.200%
105	8.288	8.271	8.330	HH	15289	389227	50.04%	1.193%
106	8.374	8.330	8.410	HH	36570	777887	100.00%	2.385%
107	8.428	8.410	8.448	HH	12236	247865	31.86%	0.760%
108	8.474	8.448	8.491	HH	13698	294115	37.81%	0.902%
109	8.507	8.491	8.528	HH	10993	228292	29.35%	0.700%
110	8.544	8.528	8.572	HH	12316	277795	35.71%	0.852%
111	8.593	8.572	8.613	HH	10011	226150	29.07%	0.693%
112	8.633	8.613	8.671	HH	10363	326979	42.03%	1.003%
113	8.681	8.671	8.690	HH	8547	96377	12.39%	0.296%
114	8.715	8.690	8.758	HH	29483	586871	75.44%	1.800%
115	8.772	8.758	8.789	HH	10210	168219	21.63%	0.516%
116	8.805	8.789	8.823	HH	10911	197054	25.33%	0.604%
117	8.838	8.823	8.872	HH	9836	248890	32.00%	0.763%
118	8.888	8.872	8.895	HH	7724	102769	13.21%	0.315%
119	8.913	8.895	8.926	HH	10799	171469	22.04%	0.526%
120	8.946	8.926	8.968	HH	12572	256995	33.04%	0.788%
121	8.975	8.968	8.993	HH	7937	116146	14.93%	0.356%
122	9.013	8.993	9.036	HH	20559	327313	42.08%	1.004%
123	9.053	9.036	9.060	HH	9742	131693	16.93%	0.404%
124	9.094	9.060	9.119	HH	24648	516025	66.34%	1.582%
125	9.126	9.119	9.153	HH	8269	154044	19.80%	0.472%
126	9.176	9.153	9.192	HH	9504	192358	24.73%	0.590%
127	9.209	9.192	9.223	HH	9143	155201	19.95%	0.476%
128	9.240	9.223	9.259	HH	9878	183172	23.55%	0.562%
129	9.274	9.259	9.289	HH	7303	126251	16.23%	0.387%
130	9.305	9.289	9.314	HH	8510	121538	15.62%	0.373%
131	9.322	9.314	9.337	HH	8789	116368	14.96%	0.357%
132	9.348	9.337	9.362	HH	8376	114741	14.75%	0.352%
133	9.369	9.362	9.387	HH	8169	112781	14.50%	0.346%
134	9.413	9.387	9.440	HH	8327	225461	28.98%	0.691%
135	9.464	9.440	9.491	HH	7410	193592	24.89%	0.594%
136	9.529	9.491	9.552	HH	7298	224070	28.80%	0.687%
137	9.558	9.552	9.571	HH	5610	60674	7.80%	0.186%
138	9.587	9.571	9.599	HH	5870	94482	12.15%	0.290%
139	9.613	9.599	9.631	HH	5892	108191	13.91%	0.332%
140	9.642	9.631	9.649	HH	5879	62720	8.06%	0.192%
141	9.666	9.649	9.678	HH	7529	116169	14.93%	0.356%

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142	9.685	9.678	9.729	HH	7361	182553	23.47%	0.560%
143	9.751	9.729	9.761	HH	8235	129971	16.71%	0.399%
144	9.772	9.761	9.805	HH	8442	167911	21.59%	0.515%
145	9.831	9.805	9.884	HH	9334	296016	38.05%	0.908%
146	9.918	9.884	9.944	HH	6561	194115	24.95%	0.595%
147	9.952	9.944	9.967	HH	4962	62141	7.99%	0.191%
148	10.000	9.967	10.012	HH	4436	115567	14.86%	0.354%
149	10.027	10.012	10.052	HH	4818	104415	13.42%	0.320%
150	10.072	10.052	10.089	HH	5137	101718	13.08%	0.312%
151	10.117	10.089	10.146	HH	5567	165970	21.34%	0.509%
152	10.162	10.146	10.192	HH	5206	126690	16.29%	0.388%
153	10.195	10.192	10.204	HH	4276	32133	4.13%	0.099%
154	10.218	10.204	10.233	HH	4400	72773	9.36%	0.223%
155	10.242	10.233	10.253	HH	4267	51284	6.59%	0.157%
156	10.265	10.253	10.310	HH	4577	130946	16.83%	0.402%
157	10.333	10.310	10.363	HH	4326	122313	15.72%	0.375%
158	10.373	10.363	10.379	HH	3718	34940	4.49%	0.107%
159	10.394	10.379	10.422	HH	3907	91688	11.79%	0.281%
160	10.437	10.422	10.454	HH	3956	70666	9.08%	0.217%
161	10.493	10.454	10.519	HH	4153	142218	18.28%	0.436%
162	10.548	10.519	10.575	HH	12272	236650	30.42%	0.726%
163	10.601	10.575	10.616	HH	4586	101537	13.05%	0.311%
164	10.626	10.616	10.658	HH	4689	101598	13.06%	0.312%
165	10.674	10.658	10.685	HH	3903	58690	7.54%	0.180%
166	10.698	10.685	10.722	HH	4302	81189	10.44%	0.249%
167	10.744	10.722	10.780	HH	3867	115686	14.87%	0.355%
168	10.828	10.780	10.857	HH	4073	168192	21.62%	0.516%
169	10.878	10.857	10.888	HH	4201	70153	9.02%	0.215%
170	10.900	10.888	10.910	HH	4273	55737	7.17%	0.171%
171	10.918	10.910	10.938	HH	4192	66927	8.60%	0.205%
172	10.971	10.938	11.003	HH	15934	302443	38.88%	0.927%
173	11.014	11.003	11.062	HH	3745	117124	15.06%	0.359%
174	11.097	11.062	11.128	HH	3234	124135	15.96%	0.381%
175	11.152	11.128	11.209	HH	4033	164516	21.15%	0.504%
176	11.229	11.209	11.259	HH	3752	101113	13.00%	0.310%
177	11.291	11.259	11.325	HH	4045	131793	16.94%	0.404%
178	11.329	11.325	11.333	HH	2931	14860	1.91%	0.046%
179	11.339	11.333	11.358	HH	2899	41031	5.27%	0.126%
180	11.377	11.358	11.400	HH	3249	78304	10.07%	0.240%
181	11.407	11.400	11.418	HH	3133	32177	4.14%	0.099%
182	11.430	11.418	11.442	HH	3259	44294	5.69%	0.136%
183	11.461	11.442	11.486	HH	3318	82239	10.57%	0.252%
184	11.509	11.486	11.523	HH	3159	68594	8.82%	0.210%
185	11.537	11.523	11.553	HH	3381	58575	7.53%	0.180%
186	11.578	11.553	11.583	HH	3392	57875	7.44%	0.177%
187	11.600	11.583	11.618	HH	3737	71646	9.21%	0.220%
188	11.632	11.618	11.661	HH	3197	81308	10.45%	0.249%
189	11.693	11.661	11.725	HH	9180	198626	25.53%	0.609%
190	11.754	11.725	11.783	HH	3079	98491	12.66%	0.302%
191	11.803	11.783	11.825	HH	3030	71297	9.17%	0.219%
192	11.878	11.825	11.899	HH	3362	136785	17.58%	0.419%
193	11.902	11.899	11.926	HH	3297	49661	6.38%	0.152%
194	11.935	11.926	11.945	HH	2916	33088	4.25%	0.101%

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195	11.976	11.945	12.027	HV	3241	145331	18.68%	0.446%
196	12.047	12.027	12.052	VV	2920	40770	5.24%	0.125%
197	12.074	12.052	12.078	VV	3111	47790	6.14%	0.147%
198	12.106	12.078	12.124	VV	3354	86255	11.09%	0.264%
199	12.153	12.124	12.192	VV	3101	117683	15.13%	0.361%
200	12.220	12.192	12.227	VV	2959	58565	7.53%	0.180%
201	12.252	12.227	12.287	VV	4868	133358	17.14%	0.409%
202	12.291	12.287	12.323	VV	2934	58514	7.52%	0.179%
203	12.348	12.323	12.365	VV	2707	65907	8.47%	0.202%
204	12.400	12.365	12.415	VV	2987	85466	10.99%	0.262%
205	12.419	12.415	12.448	VV	2772	48963	6.29%	0.150%
206	12.488	12.448	12.501	VV	2808	82146	10.56%	0.252%
207	12.515	12.501	12.556	VV	4455	110272	14.18%	0.338%
208	12.563	12.556	12.568	VV	2775	19128	2.46%	0.059%
209	12.571	12.568	12.594	VV	2742	41723	5.36%	0.128%
210	12.607	12.594	12.621	VV	2532	38957	5.01%	0.119%
211	12.634	12.621	12.673	VV	2773	79228	10.19%	0.243%
212	12.700	12.673	12.730	VV	2562	80184	10.31%	0.246%
213	12.766	12.730	12.772	VV	2486	59631	7.67%	0.183%
214	12.775	12.772	12.808	VV	2925	49657	6.38%	0.152%
215	12.853	12.808	12.874	VV	3125	107139	13.77%	0.329%
216	12.892	12.874	12.899	VV	2521	36983	4.75%	0.113%
217	12.915	12.899	12.952	VV	3268	83322	10.71%	0.255%
218	12.970	12.952	13.010	VV	3012	82390	10.59%	0.253%
219	13.031	13.010	13.050	VV	2222	51505	6.62%	0.158%
220	13.060	13.050	13.088	VV	2204	46473	5.97%	0.143%
221	13.098	13.088	13.119	VV	1975	34502	4.44%	0.106%
222	13.128	13.119	13.137	VV	1883	18959	2.44%	0.058%
223	13.190	13.137	13.201	VV	2118	72623	9.34%	0.223%
224	13.214	13.201	13.247	VV	2024	52189	6.71%	0.160%
225	13.268	13.247	13.289	VV	2954	57587	7.40%	0.177%
226	13.307	13.289	13.320	VV	1972	34334	4.41%	0.105%
227	13.334	13.320	13.353	VV	1895	35127	4.52%	0.108%
228	13.365	13.353	13.381	VV	1934	31289	4.02%	0.096%
229	13.410	13.381	13.446	VV	2858	86625	11.14%	0.266%
230	13.450	13.446	13.452	VV	1906	7556	0.97%	0.023%
231	13.462	13.452	13.507	VV	1984	57942	7.45%	0.178%
232	13.537	13.507	13.570	VV	2164	71777	9.23%	0.220%
233	13.574	13.570	13.579	VV	1766	9377	1.21%	0.029%
234	13.599	13.579	13.620	VV	1977	44383	5.71%	0.136%
235	13.633	13.620	13.651	VV	1741	30159	3.88%	0.092%
236	13.663	13.651	13.680	VV	1683	27662	3.56%	0.085%
237	13.695	13.680	13.720	VV	1925	39711	5.11%	0.122%
238	13.753	13.720	13.789	VV	2280	74837	9.62%	0.229%
239	13.796	13.789	13.812	VV	1644	21072	2.71%	0.065%
240	13.817	13.812	13.827	VV	1590	13539	1.74%	0.042%
241	13.851	13.827	13.883	VV	1724	50976	6.55%	0.156%
242	13.900	13.883	13.914	VV	1422	25271	3.25%	0.077%
243	13.928	13.914	13.941	VV	1478	22426	2.88%	0.069%
244	13.966	13.941	13.986	VV	1766	42514	5.47%	0.130%
245	14.024	13.986	14.044	VV	1725	52200	6.71%	0.160%
246	14.052	14.044	14.086	VV	1435	31744	4.08%	0.097%

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247	14.109	14.086	14.146	VV	1740	49666	6.38%	0.152%
248	14.170	14.146	14.185	VV	1272	27217	3.50%	0.083%
249	14.189	14.185	14.198	VV	1079	7989	1.03%	0.024%
250	14.203	14.198	14.209	VV	1111	7488	0.96%	0.023%
251	14.216	14.209	14.229	VV	1089	12670	1.63%	0.039%
252	14.250	14.229	14.288	VV	1125	36927	4.75%	0.113%
253	14.345	14.288	14.385	VV	1693	69282	8.91%	0.212%
254	14.397	14.385	14.419	VV	1160	21306	2.74%	0.065%
255	14.424	14.419	14.434	VV	1093	8977	1.15%	0.028%
256	14.438	14.434	14.452	VV	988	9335	1.20%	0.029%
257	14.483	14.452	14.493	VV	1171	25371	3.26%	0.078%
258	14.496	14.493	14.527	VV	1158	21493	2.76%	0.066%
259	14.532	14.527	14.539	VV	1021	6909	0.89%	0.021%
260	14.569	14.539	14.587	VV	1034	28006	3.60%	0.086%
261	14.590	14.587	14.612	VV	1007	13223	1.70%	0.041%
262	14.619	14.612	14.652	VV	1014	19941	2.56%	0.061%
263	14.673	14.652	14.698	VV	1183	26233	3.37%	0.080%
264	14.703	14.698	14.709	VV	868	5212	0.67%	0.016%
265	14.734	14.709	14.758	VV	1197	28181	3.62%	0.086%
266	14.800	14.758	14.823	VV	1265	38574	4.96%	0.118%
267	14.833	14.823	14.869	VV	976	20806	2.67%	0.064%
268	14.874	14.869	14.880	VV	630	3904	0.50%	0.012%
269	14.895	14.880	14.906	VV	711	9852	1.27%	0.030%
270	14.928	14.906	14.941	VV	792	14184	1.82%	0.043%
271	14.959	14.941	14.979	VV	746	15309	1.97%	0.047%
272	15.009	14.979	15.043	VV	1749	38049	4.89%	0.117%
273	15.048	15.043	15.056	VV	616	4467	0.57%	0.014%
274	15.060	15.056	15.087	VV	590	9422	1.21%	0.029%
275	15.104	15.087	15.127	VV	647	13350	1.72%	0.041%
276	15.146	15.127	15.168	VV	844	15557	2.00%	0.048%
277	15.183	15.168	15.198	VV	881	13760	1.77%	0.042%
278	15.217	15.198	15.240	VV	1047	18946	2.44%	0.058%
279	15.255	15.240	15.291	VV	661	16241	2.09%	0.050%
280	15.296	15.291	15.302	VV	526	3128	0.40%	0.010%
281	15.308	15.302	15.313	VV	529	3310	0.43%	0.010%
282	15.317	15.313	15.328	VV	466	3539	0.45%	0.011%
283	15.350	15.328	15.391	VV	802	19957	2.57%	0.061%
284	15.393	15.391	15.413	VV	428	4595	0.59%	0.014%
285	15.422	15.413	15.433	VV	377	3847	0.49%	0.012%
286	15.467	15.433	15.494	VV	534	13643	1.75%	0.042%
287	15.498	15.494	15.506	VV	306	1901	0.24%	0.006%
288	15.511	15.506	15.522	VV	334	2685	0.35%	0.008%
289	15.534	15.522	15.544	VV	394	3492	0.45%	0.011%
290	15.549	15.544	15.558	VV	297	1867	0.24%	0.006%
291	15.597	15.558	15.613	VV	622	13436	1.73%	0.041%
292	15.643	15.613	15.648	VV	545	9814	1.26%	0.030%
293	15.652	15.648	15.682	VV	477	6467	0.83%	0.020%
294	15.691	15.682	15.699	VV	361	2985	0.38%	0.009%
295	15.737	15.699	15.753	VV	664	14157	1.82%	0.043%
296	15.758	15.753	15.784	VV	655	9421	1.21%	0.029%
297	15.811	15.784	15.848	VV	1167	22790	2.93%	0.070%
298	15.863	15.848	15.888	VV	317	4535	0.58%	0.014%
299	15.900	15.888	15.907	VV	140	693	0.09%	0.002%

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300	15.942	15.907	15.948	PV	184	2895	0.37%	0.009%
301	15.954	15.948	15.959	VV	189	961	0.12%	0.003%
302	15.965	15.959	15.969	VV	149	951	0.12%	0.003%
303	15.984	15.969	15.989	VV	277	2514	0.32%	0.008%
304	15.992	15.989	16.001	VV	299	1566	0.20%	0.005%
305	16.005	16.001	16.021	VV	239	2013	0.26%	0.006%
306	16.044	16.021	16.074	VV	535	11109	1.43%	0.034%
307	16.077	16.074	16.082	VV	228	902	0.12%	0.003%
308	16.125	16.082	16.140	VV	237	5533	0.71%	0.017%
309	16.160	16.140	16.169	VV	275	3254	0.42%	0.010%
310	16.191	16.169	16.211	VV	365	6177	0.79%	0.019%
311	16.234	16.211	16.250	VV	801	11521	1.48%	0.035%
312	16.265	16.250	16.290	VV	395	7263	0.93%	0.022%
313	16.294	16.290	16.309	VV	239	2134	0.27%	0.007%
314	16.330	16.309	16.337	VV	177	1735	0.22%	0.005%
315	16.342	16.337	16.360	VV	154	1390	0.18%	0.004%
316	16.380	16.360	16.389	VV	162	2000	0.26%	0.006%
317	16.426	16.389	16.466	VV	465	11311	1.45%	0.035%
318	16.477	16.466	16.499	VV	171	2580	0.33%	0.008%
319	16.548	16.499	16.571	VV	453	12987	1.67%	0.040%
320	16.610	16.571	16.644	VV	423	11697	1.50%	0.036%
321	16.716	16.644	16.769	PV	756	28663	3.68%	0.088%
322	16.806	16.769	16.824	VV	229	5637	0.72%	0.017%
323	16.841	16.824	16.848	VV	221	3000	0.39%	0.009%
324	16.854	16.848	16.882	VV	268	4463	0.57%	0.014%
325	16.897	16.882	16.914	VV	411	5098	0.66%	0.016%
326	16.933	16.914	16.967	VV	468	9872	1.27%	0.030%
327	16.991	16.967	17.007	VV	366	5267	0.68%	0.016%
328	17.077	17.007	17.115	VV	490	18311	2.35%	0.056%
329	17.184	17.115	17.270	PV	1345	33417	4.30%	0.102%
			Sum of corrected areas:			32612335		

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Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-6		SDG No.:	P4839	
Lab Sample ID:	P4839-22		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	89.5	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
FF015081.D	1	11/16/24 08:20	11/18/24 12:28	PB165028

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	3860		206	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	16.2		37 - 130	81%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015081.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 12:28
Operator : YP\AJ
Sample : P4839-22
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-6

Integration File: autoint1.e
Quant Time: Nov 19 00:22:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 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	1787297	16.215 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

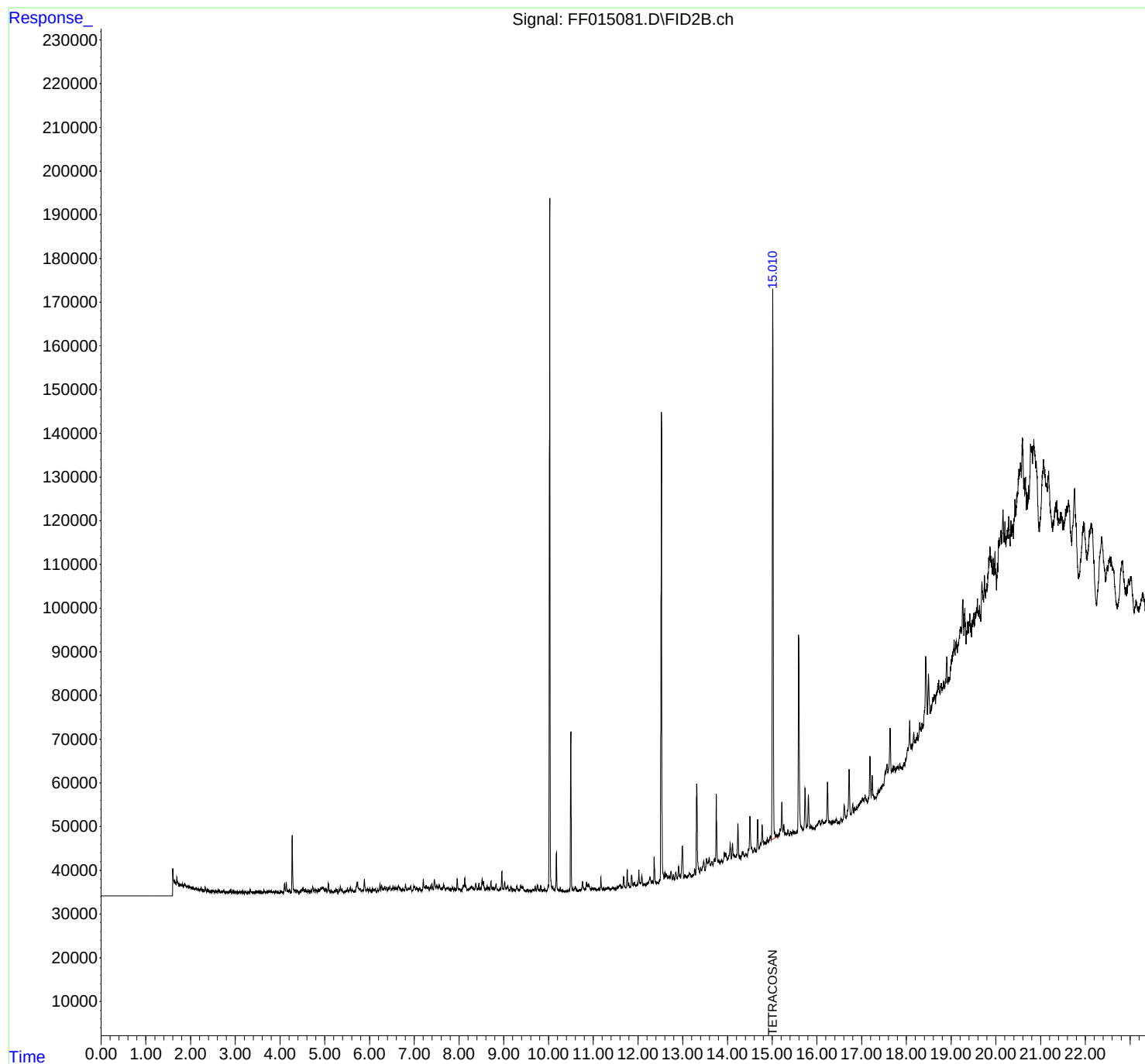
(m)=manual int.

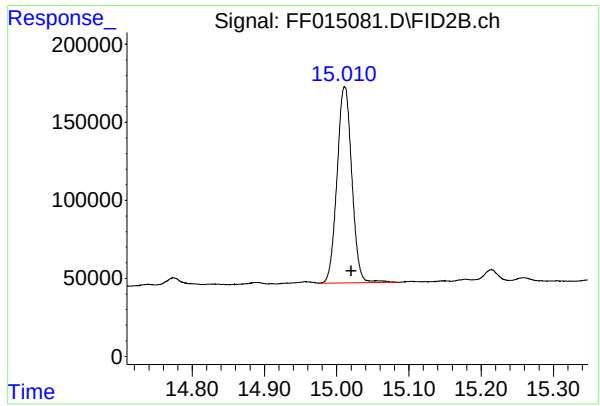
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015081.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 12:28
Operator : YP\AJ
Sample : P4839-22
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-6

Integration File: autoint1.e
Quant Time: Nov 19 00:22:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 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.: 15.011 min
Delta R.T.: -0.009 min
Response: 1787297
Conc: 16.22 ug/ml

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-6

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015081.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 12:28
Sample : P4839-22
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.461	4.420	4.475	BV	466	6626	0.36%	0.044%
2	4.485	4.475	4.495	VV	627	6450	0.35%	0.043%
3	4.507	4.495	4.546	VV	791	18696	1.01%	0.126%
4	4.571	4.546	4.592	VV	818	13485	0.73%	0.091%
5	4.604	4.592	4.622	VV	526	6043	0.33%	0.041%
6	4.640	4.622	4.669	VV	620	8972	0.48%	0.060%
7	4.690	4.669	4.709	PV	580	8160	0.44%	0.055%
8	4.735	4.709	4.763	VV	1205	24302	1.31%	0.163%
9	4.782	4.763	4.797	VV	893	12507	0.67%	0.084%
10	4.809	4.797	4.834	VV	602	10163	0.55%	0.068%
11	4.851	4.834	4.872	VV	653	11123	0.60%	0.075%
12	4.916	4.872	4.926	VV	1128	26790	1.44%	0.180%
13	4.932	4.926	4.939	VV	1147	8961	0.48%	0.060%
14	4.959	4.939	5.004	VV	1286	35442	1.91%	0.238%
15	5.030	5.004	5.058	VV	888	19164	1.03%	0.129%
16	5.080	5.058	5.116	VV	2133	30775	1.66%	0.207%
17	5.141	5.116	5.169	VV	429	8446	0.45%	0.057%
18	5.184	5.169	5.195	VV	265	2726	0.15%	0.018%
19	5.218	5.195	5.236	VV	496	7510	0.40%	0.050%
20	5.251	5.236	5.264	VV	930	11113	0.60%	0.075%
21	5.268	5.264	5.302	VV	610	6397	0.34%	0.043%
22	5.322	5.302	5.335	PV	772	8254	0.44%	0.055%
23	5.350	5.335	5.370	VV	1456	18267	0.98%	0.123%
24	5.388	5.370	5.424	VV	759	13708	0.74%	0.092%
25	5.442	5.424	5.462	PV	428	6094	0.33%	0.041%
26	5.476	5.462	5.492	VV	440	6735	0.36%	0.045%
27	5.506	5.492	5.534	VV	1171	15288	0.82%	0.103%
28	5.552	5.534	5.563	VV	751	9685	0.52%	0.065%
29	5.574	5.563	5.595	VV	1332	16837	0.91%	0.113%
30	5.613	5.595	5.658	VV	762	16319	0.88%	0.110%
31	5.674	5.658	5.684	VV	429	4828	0.26%	0.032%
32	5.718	5.684	5.727	VV	2342	35626	1.92%	0.239%
33	5.734	5.727	5.747	VV	2259	21606	1.16%	0.145%
34	5.754	5.747	5.768	VV	1152	12311	0.66%	0.083%
35	5.774	5.768	5.784	VV	857	7854	0.42%	0.053%
36	5.798	5.784	5.813	VV	1038	12455	0.67%	0.084%

					rteres			
37	5.828	5.813	5.836	VV	497	5739	0.31%	0.039%
38	5.845	5.836	5.863	VV	688	8641	0.47%	0.058%
39	5.886	5.863	5.923	VV	3074	49732	2.68%	0.334%
40	5.960	5.923	5.982	VV	872	22324	1.20%	0.150%
41	6.001	5.982	6.051	VV	877	23328	1.26%	0.157%
42	6.071	6.051	6.085	VV	934	13405	0.72%	0.090%
43	6.090	6.085	6.103	VV	699	6799	0.37%	0.046%
44	6.116	6.103	6.123	VV	838	9019	0.49%	0.061%
45	6.134	6.123	6.159	VV	861	10742	0.58%	0.072%
46	6.183	6.159	6.203	VV	728	10687	0.58%	0.072%
47	6.235	6.203	6.252	VV	1960	29427	1.58%	0.198%
48	6.267	6.252	6.294	VV	1784	28360	1.53%	0.190%
49	6.298	6.294	6.303	VV	724	3333	0.18%	0.022%
50	6.339	6.303	6.356	VV	1504	30176	1.62%	0.203%
51	6.378	6.356	6.397	VV	1202	21020	1.13%	0.141%
52	6.420	6.397	6.437	VV	1230	20687	1.11%	0.139%
53	6.455	6.437	6.486	VV	1404	29830	1.61%	0.200%
54	6.500	6.486	6.510	VV	997	11634	0.63%	0.078%
55	6.526	6.510	6.553	VV	1379	26605	1.43%	0.179%
56	6.567	6.553	6.579	VV	1357	17194	0.93%	0.115%
57	6.587	6.579	6.598	VV	1070	10242	0.55%	0.069%
58	6.615	6.598	6.630	VV	905	15986	0.86%	0.107%
59	6.646	6.630	6.668	VV	1553	28195	1.52%	0.189%
60	6.677	6.668	6.705	VV	1215	19113	1.03%	0.128%
61	6.708	6.705	6.713	VV	643	2857	0.15%	0.019%
62	6.717	6.713	6.721	VV	626	3073	0.17%	0.021%
63	6.745	6.721	6.758	VV	846	15415	0.83%	0.103%
64	6.762	6.758	6.781	VV	630	7818	0.42%	0.052%
65	6.805	6.781	6.844	VV	1957	36133	1.95%	0.243%
66	6.860	6.844	6.877	VV	1016	16076	0.87%	0.108%
67	6.886	6.877	6.891	VV	974	7744	0.42%	0.052%
68	6.922	6.891	6.947	VV	1491	32883	1.77%	0.221%
69	6.990	6.947	6.999	VV	1490	23692	1.28%	0.159%
70	7.012	6.999	7.033	VV	1367	21393	1.15%	0.144%
71	7.055	7.033	7.081	VV	1040	23735	1.28%	0.159%
72	7.094	7.081	7.106	VV	781	10065	0.54%	0.068%
73	7.124	7.106	7.155	VV	930	19878	1.07%	0.133%
74	7.204	7.155	7.225	VV	3068	50131	2.70%	0.337%
75	7.230	7.225	7.248	VV	1195	14794	0.80%	0.099%
76	7.265	7.248	7.287	VV	1584	28895	1.56%	0.194%
77	7.301	7.287	7.311	VV	1211	16748	0.90%	0.112%
78	7.320	7.311	7.335	VV	1269	14466	0.78%	0.097%
79	7.356	7.335	7.376	VV	1184	23183	1.25%	0.156%
80	7.392	7.376	7.426	VV	2000	36155	1.95%	0.243%
81	7.450	7.426	7.477	VV	2987	56783	3.06%	0.381%
82	7.504	7.477	7.535	VV	1735	45754	2.46%	0.307%
83	7.558	7.535	7.607	VV	1547	46478	2.50%	0.312%
84	7.621	7.607	7.639	VV	1045	17675	0.95%	0.119%
85	7.655	7.639	7.704	VV	1791	42727	2.30%	0.287%
86	7.731	7.704	7.742	VV	981	18954	1.02%	0.127%
87	7.757	7.742	7.780	VV	1199	21396	1.15%	0.144%
88	7.812	7.780	7.822	VV	844	17586	0.95%	0.118%
89	7.827	7.822	7.833	VV	701	4504	0.24%	0.030%

					rteres			
90	7.854	7.833	7.882	VV	1143	23551	1.27%	0.158%
91	7.902	7.882	7.918	VV	799	13726	0.74%	0.092%
92	7.930	7.918	7.939	VV	529	6672	0.36%	0.045%
93	7.960	7.939	7.998	VV	3037	50529	2.72%	0.339%
94	8.019	7.998	8.040	VV	804	16662	0.90%	0.112%
95	8.056	8.040	8.069	VV	583	8609	0.46%	0.058%
96	8.096	8.069	8.114	VV	1573	32372	1.74%	0.217%
97	8.130	8.114	8.147	VV	3260	41978	2.26%	0.282%
98	8.155	8.147	8.178	VV	1472	19448	1.05%	0.131%
99	8.183	8.178	8.187	VV	573	2720	0.15%	0.018%
100	8.199	8.187	8.221	VV	701	12384	0.67%	0.083%
101	8.249	8.221	8.256	VV	1008	17313	0.93%	0.116%
102	8.285	8.256	8.322	VV	1335	40596	2.19%	0.273%
103	8.328	8.322	8.338	VV	844	6566	0.35%	0.044%
104	8.374	8.338	8.411	VV	1977	45657	2.46%	0.307%
105	8.444	8.411	8.463	VV	1909	29707	1.60%	0.199%
106	8.489	8.463	8.495	VV	848	14565	0.78%	0.098%
107	8.518	8.495	8.532	VV	3019	44136	2.38%	0.296%
108	8.545	8.532	8.582	VV	2403	45865	2.47%	0.308%
109	8.628	8.582	8.642	VV	1280	30511	1.64%	0.205%
110	8.652	8.642	8.675	VV	1174	17559	0.95%	0.118%
111	8.685	8.675	8.696	VV	809	9385	0.51%	0.063%
112	8.715	8.696	8.738	VV	2548	35964	1.94%	0.241%
113	8.752	8.738	8.766	VV	1150	14864	0.80%	0.100%
114	8.776	8.766	8.794	VV	875	12072	0.65%	0.081%
115	8.829	8.794	8.875	VV	1878	45001	2.42%	0.302%
116	8.880	8.875	8.889	VV	422	3144	0.17%	0.021%
117	8.915	8.889	8.929	VV	824	13217	0.71%	0.089%
118	8.959	8.929	8.980	VV	4726	61010	3.28%	0.410%
119	8.985	8.980	8.997	VV	773	6926	0.37%	0.047%
120	9.022	8.997	9.045	VV	2266	40719	2.19%	0.273%
121	9.052	9.045	9.064	VV	984	10037	0.54%	0.067%
122	9.092	9.064	9.136	VV	1450	35071	1.89%	0.235%
123	9.159	9.136	9.196	VV	1314	26682	1.44%	0.179%
124	9.207	9.196	9.225	VV	707	9044	0.49%	0.061%
125	9.243	9.225	9.260	VV	544	8653	0.47%	0.058%
126	9.293	9.260	9.335	VV	1411	31440	1.69%	0.211%
127	9.352	9.335	9.361	VV	586	7057	0.38%	0.047%
128	9.381	9.361	9.406	VV	1617	28382	1.53%	0.191%
129	9.414	9.406	9.421	VV	1082	9040	0.49%	0.061%
130	9.432	9.421	9.461	VV	1070	17163	0.92%	0.115%
131	9.469	9.461	9.496	VV	365	5272	0.28%	0.035%
132	9.531	9.496	9.554	VV	588	10783	0.58%	0.072%
133	9.568	9.554	9.592	VV	393	6634	0.36%	0.045%
134	9.595	9.592	9.609	VV	302	2306	0.12%	0.015%
135	9.613	9.609	9.623	VV	243	1462	0.08%	0.010%
136	9.646	9.623	9.656	VV	552	6515	0.35%	0.044%
137	9.665	9.656	9.683	VV	622	7331	0.39%	0.049%
138	9.704	9.683	9.725	VV	1224	16393	0.88%	0.110%
139	9.750	9.725	9.788	VV	1483	30067	1.62%	0.202%
140	9.793	9.788	9.808	VV	355	2683	0.14%	0.018%
141	9.828	9.808	9.860	VV	1308	20944	1.13%	0.141%

					rteres			
142	9.870	9.860	9.881	VV	351	3492	0.19%	0.023%
143	9.917	9.881	9.954	VV	741	16363	0.88%	0.110%
144	9.959	9.954	9.965	VV	256	1518	0.08%	0.010%
145	9.994	9.965	10.001	VV	1532	19051	1.03%	0.128%
146	10.028	10.001	10.080	VV	158485	1651438	88.90%	11.087%
147	10.095	10.080	10.143	VV	1240	24456	1.32%	0.164%
148	10.178	10.143	10.213	VV	8950	113816	6.13%	0.764%
149	10.216	10.213	10.222	VV	376	1760	0.09%	0.012%
150	10.231	10.222	10.246	VV	425	4957	0.27%	0.033%
151	10.265	10.246	10.295	VV	1026	13851	0.75%	0.093%
152	10.315	10.295	10.328	VV	256	3787	0.20%	0.025%
153	10.331	10.328	10.363	VV	227	1674	0.09%	0.011%
154	10.366	10.363	10.396	PV	161	2051	0.11%	0.014%
155	10.401	10.396	10.413	VV	140	891	0.05%	0.006%
156	10.417	10.413	10.426	VV	121	664	0.04%	0.004%
157	10.432	10.426	10.440	VV	178	865	0.05%	0.006%
158	10.458	10.440	10.473	VV	373	5067	0.27%	0.034%
159	10.501	10.473	10.532	VV	36541	383638	20.65%	2.576%
160	10.546	10.532	10.566	VV	647	9526	0.51%	0.064%
161	10.599	10.566	10.622	VV	1165	20998	1.13%	0.141%
162	10.627	10.622	10.661	VV	408	4980	0.27%	0.033%
163	10.682	10.661	10.695	PV	263	3481	0.19%	0.023%
164	10.706	10.695	10.724	VV	315	4240	0.23%	0.028%
165	10.761	10.724	10.795	VV	2054	35643	1.92%	0.239%
166	10.850	10.795	10.865	VV	2028	34564	1.86%	0.232%
167	10.874	10.865	10.888	VV	1292	15646	0.84%	0.105%
168	10.900	10.888	10.944	VV	1460	28718	1.55%	0.193%
169	10.970	10.944	10.988	VV	687	11380	0.61%	0.076%
170	11.000	10.988	11.016	VV	502	6125	0.33%	0.041%
171	11.031	11.016	11.053	VV	615	9021	0.49%	0.061%
172	11.066	11.053	11.087	VV	277	3071	0.17%	0.021%
173	11.101	11.087	11.107	PV	171	1301	0.07%	0.009%
174	11.123	11.107	11.133	VV	335	3418	0.18%	0.023%
175	11.171	11.133	11.211	VV	2978	42342	2.28%	0.284%
176	11.224	11.211	11.248	VV	329	4994	0.27%	0.034%
177	11.251	11.248	11.256	VV	126	385	0.02%	0.003%
178	11.285	11.256	11.312	VV	324	7496	0.40%	0.050%
179	11.328	11.312	11.370	VV	700	11114	0.60%	0.075%
180	11.379	11.370	11.393	VV	154	1191	0.06%	0.008%
181	11.433	11.393	11.451	PV	488	8030	0.43%	0.054%
182	11.455	11.451	11.486	VV	261	3114	0.17%	0.021%
183	11.497	11.486	11.503	PV	147	936	0.05%	0.006%
184	11.544	11.503	11.556	VV	402	7480	0.40%	0.050%
185	11.575	11.556	11.582	VV	683	8016	0.43%	0.054%
186	11.601	11.582	11.648	VV	968	18746	1.01%	0.126%
187	11.678	11.648	11.727	VV	2615	40050	2.16%	0.269%
188	11.761	11.727	11.782	VV	4127	51341	2.76%	0.345%
189	11.795	11.782	11.822	VV	1008	12214	0.66%	0.082%
190	11.858	11.822	11.892	PV	2716	40175	2.16%	0.270%
191	11.918	11.892	11.945	VV	992	18228	0.98%	0.122%
192	11.953	11.945	11.972	VV	383	4434	0.24%	0.030%
193	11.992	11.972	11.997	VV	739	6678	0.36%	0.045%
194	12.020	11.997	12.045	VV	3702	52326	2.82%	0.351%

					rteres			
195	12.057	12.045	12.066	VV	667	8127	0.44%	0.055%
196	12.086	12.066	12.124	VV	2269	31734	1.71%	0.213%
197	12.129	12.124	12.134	VV	235	1237	0.07%	0.008%
198	12.149	12.134	12.172	VV	336	5196	0.28%	0.035%
199	12.201	12.172	12.204	PV	402	4139	0.22%	0.028%
200	12.208	12.204	12.218	VV	442	3003	0.16%	0.020%
201	12.265	12.218	12.304	VV	1438	42991	2.31%	0.289%
202	12.322	12.304	12.340	VV	896	12551	0.68%	0.084%
203	12.363	12.340	12.402	VV	6324	77898	4.19%	0.523%
204	12.407	12.402	12.420	VV	242	2029	0.11%	0.014%
205	12.437	12.420	12.457	VV	322	4211	0.23%	0.028%
206	12.485	12.457	12.492	PV	698	8578	0.46%	0.058%
207	12.525	12.492	12.580	VV	107813	1352905	72.83%	9.083%
208	12.601	12.580	12.618	VV	2314	34728	1.87%	0.233%
209	12.630	12.618	12.643	VV	1907	24469	1.32%	0.164%
210	12.647	12.643	12.673	VV	1403	19068	1.03%	0.128%
211	12.692	12.673	12.710	VV	1299	23328	1.26%	0.157%
212	12.740	12.710	12.776	VV	2224	44583	2.40%	0.299%
213	12.793	12.776	12.815	VV	1396	17905	0.96%	0.120%
214	12.845	12.815	12.873	VV	1727	32261	1.74%	0.217%
215	12.906	12.873	12.928	VV	2985	48060	2.59%	0.323%
216	12.938	12.928	12.954	VV	918	10266	0.55%	0.069%
217	12.991	12.954	13.022	VV	7567	140655	7.57%	0.944%
218	13.052	13.022	13.076	VV	885	16011	0.86%	0.107%
219	13.088	13.076	13.099	VV	292	2982	0.16%	0.020%
220	13.122	13.099	13.131	VV	623	7442	0.40%	0.050%
221	13.146	13.131	13.162	VV	1097	15913	0.86%	0.107%
222	13.165	13.162	13.198	VV	865	9966	0.54%	0.067%
223	13.234	13.198	13.243	PV	425	6768	0.36%	0.045%
224	13.268	13.243	13.288	VV	1650	21915	1.18%	0.147%
225	13.313	13.288	13.351	VV	20976	302170	16.27%	2.029%
226	13.355	13.351	13.381	VV	1589	18352	0.99%	0.123%
227	13.401	13.381	13.419	VV	1448	21956	1.18%	0.147%
228	13.469	13.419	13.500	VV	2775	72790	3.92%	0.489%
229	13.531	13.500	13.553	VV	3037	61044	3.29%	0.410%
230	13.563	13.553	13.568	VV	2001	16653	0.90%	0.112%
231	13.591	13.568	13.620	VV	3016	64468	3.47%	0.433%
232	13.653	13.620	13.674	VV	1877	47072	2.53%	0.316%
233	13.709	13.674	13.728	VV	2284	57538	3.10%	0.386%
234	13.750	13.728	13.784	VV	16940	216761	11.67%	1.455%
235	13.797	13.784	13.830	VV	1519	35867	1.93%	0.241%
236	13.836	13.830	13.843	VV	1156	8782	0.47%	0.059%
237	13.864	13.843	13.895	VV	1436	35631	1.92%	0.239%
238	13.933	13.895	13.945	VV	2921	57303	3.08%	0.385%
239	13.957	13.945	13.999	VV	2455	59710	3.21%	0.401%
240	14.060	13.999	14.087	VV	4557	112358	6.05%	0.754%
241	14.110	14.087	14.130	VV	4376	67257	3.62%	0.452%
242	14.140	14.130	14.151	VV	1600	18281	0.98%	0.123%
243	14.155	14.151	14.189	VV	1397	26575	1.43%	0.178%
244	14.233	14.189	14.289	VV	8287	140642	7.57%	0.944%
245	14.293	14.289	14.298	VV	389	1997	0.11%	0.013%
246	14.335	14.298	14.379	VV	1533	45814	2.47%	0.308%

					rteres			
247	14.412	14.379	14.439	VV	855	18483	0.99%	0.124%
248	14.469	14.439	14.478	VV	1699	21584	1.16%	0.145%
249	14.501	14.478	14.536	VV	9133	151802	8.17%	1.019%
250	14.540	14.536	14.565	VV	1613	21156	1.14%	0.142%
251	14.566	14.565	14.570	VV	687	1833	0.10%	0.012%
252	14.600	14.570	14.620	VV	1404	28901	1.56%	0.194%
253	14.626	14.620	14.644	VV	809	9167	0.49%	0.062%
254	14.674	14.644	14.698	VV	7695	106640	5.74%	0.716%
255	14.740	14.698	14.752	VV	2083	45170	2.43%	0.303%
256	14.774	14.752	14.814	VV	6157	121503	6.54%	0.816%
257	14.832	14.814	14.855	VV	1838	40417	2.18%	0.271%
258	14.890	14.855	14.917	VV	2634	72401	3.90%	0.486%
259	14.957	14.917	14.976	VV	2845	80693	4.34%	0.542%
260	15.011	14.976	15.048	VV	127662	1857617	100.00%	12.472%
261	15.056	15.048	15.087	VV	3164	61954	3.34%	0.416%
262	15.103	15.087	15.126	VV	2528	55285	2.98%	0.371%
263	15.149	15.126	15.158	VV	2750	47793	2.57%	0.321%
264	15.178	15.158	15.188	VV	3722	55468	2.99%	0.372%
265	15.214	15.188	15.238	VV	9672	169647	9.13%	1.139%
266	15.260	15.238	15.293	VV	4283	100121	5.39%	0.672%
267	15.305	15.293	15.320	VV	2203	33577	1.81%	0.225%
268	15.325	15.320	15.331	VV	1974	11724	0.63%	0.079%
269	15.353	15.331	15.388	VV	2724	70507	3.80%	0.473%
270	15.407	15.388	15.431	VV	2227	46416	2.50%	0.312%
271	15.470	15.431	15.484	VV	2122	54601	2.94%	0.367%
272	15.502	15.484	15.521	VV	1862	34710	1.87%	0.233%
273	15.527	15.521	15.531	VV	1385	7720	0.42%	0.052%
274	15.554	15.531	15.563	VV	1649	28310	1.52%	0.190%
275	15.591	15.563	15.698	VV	46395	785276	42.27%	5.272%
276	15.734	15.698	15.773	VV	10924	208932	11.25%	1.403%
277	15.808	15.773	15.842	VV	9065	167872	9.04%	1.127%
278	15.858	15.842	15.862	VV	1822	17657	0.95%	0.119%
279	15.866	15.862	15.889	VV	1788	24036	1.29%	0.161%
280	15.898	15.889	15.933	VV	1242	27764	1.49%	0.186%
281	15.942	15.933	15.945	VV	909	6001	0.32%	0.040%
282	15.982	15.945	15.986	VV	1309	25737	1.39%	0.173%
283	16.000	15.986	16.009	VV	1477	18893	1.02%	0.127%
284	16.054	16.009	16.085	VV	2302	81227	4.37%	0.545%
285	16.119	16.085	16.138	VV	2210	54988	2.96%	0.369%
286	16.159	16.138	16.172	VV	1594	28481	1.53%	0.191%
287	16.199	16.172	16.206	VV	1701	29563	1.59%	0.198%
288	16.235	16.206	16.278	VV	10416	175085	9.43%	1.175%
289	16.295	16.278	16.320	VV	1239	24504	1.32%	0.165%
290	16.338	16.320	16.343	VV	944	10867	0.59%	0.073%
291	16.346	16.343	16.352	VV	832	4387	0.24%	0.029%
292	16.368	16.352	16.387	VV	824	14894	0.80%	0.100%
293	16.394	16.387	16.408	VV	780	8748	0.47%	0.059%
294	16.430	16.408	16.467	VV	1186	25464	1.37%	0.171%
295	16.480	16.467	16.496	VV	348	2958	0.16%	0.020%
296	16.507	16.496	16.512	PV	299	1878	0.10%	0.013%
297	16.534	16.512	16.566	VV	915	16396	0.88%	0.110%
298	16.609	16.566	16.642	PV	3505	63395	3.41%	0.426%
299	16.719	16.642	16.750	VV	10892	195467	10.52%	1.312%

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300	16.757	16.750	16.762	VV	372	2418	0.13%	0.016%
301	16.799	16.762	16.821	VV	2392	39281	2.11%	0.264%
302	16.844	16.821	16.859	VV	1270	18245	0.98%	0.122%
303	16.872	16.859	16.876	VV	731	6075	0.33%	0.041%
304	16.921	16.876	16.928	VV	1282	27000	1.45%	0.181%
305	16.932	16.928	16.942	VV	1222	10233	0.55%	0.069%
306	16.960	16.942	16.967	VV	1560	19722	1.06%	0.132%
307	16.977	16.967	16.988	VV	1744	19457	1.05%	0.131%
308	16.990	16.988	16.997	VV	1591	7822	0.42%	0.053%
309	17.021	16.997	17.033	VV	2032	37588	2.02%	0.252%
310	17.039	17.033	17.051	VV	1637	15633	0.84%	0.105%
311	17.077	17.051	17.099	VV	2466	49870	2.68%	0.335%
312	17.107	17.099	17.126	VV	1340	15584	0.84%	0.105%
313	17.153	17.126	17.157	VV	1177	14196	0.76%	0.095%
314	17.185	17.157	17.212	VV	10441	159375	8.58%	1.070%
315	17.234	17.212	17.265	VV	5812	89152	4.80%	0.599%
316	17.268	17.265	17.281	VV	901	5234	0.28%	0.035%
317	17.296	17.281	17.300	PBA	120	6250	0.34%	0.042%
					Sum of corrected areas:		14894800	

FF111324.M Tue Nov 19 01:24:57 2024



CALIBRATION SUMMARY

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: ENTA05
ProjectID: North Point
Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG No.: P4839

Calibration Sequence : FF111324		Test : Diesel Range Organics	
Concentration (PPM)	Area Count	Reference Factor	File ID
500	57168580	114337	FF015003.D
200	24056486	120282	FF015004.D
100	13574431	135744	FF015005.D
50	6559493	131190	FF015006.D
1000	129538208	129538	FF015007.D
AVG RF : 126218		% RSD : 6.894	AVG RT : 15.0152

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: ENTA05
 ProjectID: North Point
 Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG No.: P4839

Calibration Sequence : FG111324		Test : Diesel Range Organics	
Concentration (PPM)	Area Count	Reference Factor	File ID
500	59724432	119449	FG014760.D
200	24938168	124691	FG014761.D
100	14125740	141257	FG014762.D
50	6325479	126510	FG014763.D
1000	115249354	115249	FG014764.D
AVG RF : 125431		% RSD : 7.889	AVG RT : 15.0442

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: ENTA05
ProjectID: North Point
Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG No.: P4839
DataFile: FF015078.D Analyst Name: YP\AJ Analyst Date: 11-18-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	61619178	123238	126218	2.361

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
 Data File : FF015078.D
 Signal(s) : FID2B.ch
 Acq On : 18 Nov 2024 10:56
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Nov 19 00:21:34 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
 Quant Title :
 QLast Update : Wed Nov 13 12:50:15 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	5317535	48.243 ug/ml
Target Compounds			
2) N-DECANE	4.568	6477513	49.174 ug/ml
3) N-DODECANE	6.731	6490199	48.351 ug/ml
4) N-TETRADECANE	8.555	6439645	49.878 ug/ml
5) N-HEXADECANE	10.162	6348234	48.957 ug/ml
6) N-OCTADECANE	11.604	6354700	48.182 ug/ml
7) N-EICOSANE	12.914	6295784	49.522 ug/ml
8) N-DOCOSANE	14.112	5999242	48.525 ug/ml
10) N-TETRACOSANE	15.216	5884157	48.435 ug/ml
11) N-HEXACOSANE	16.236	5719990	48.495 ug/ml
12) N-OCTACOSANE	17.186	5609714	48.627 ug/ml

(f)=RT Delta > 1/2 Window

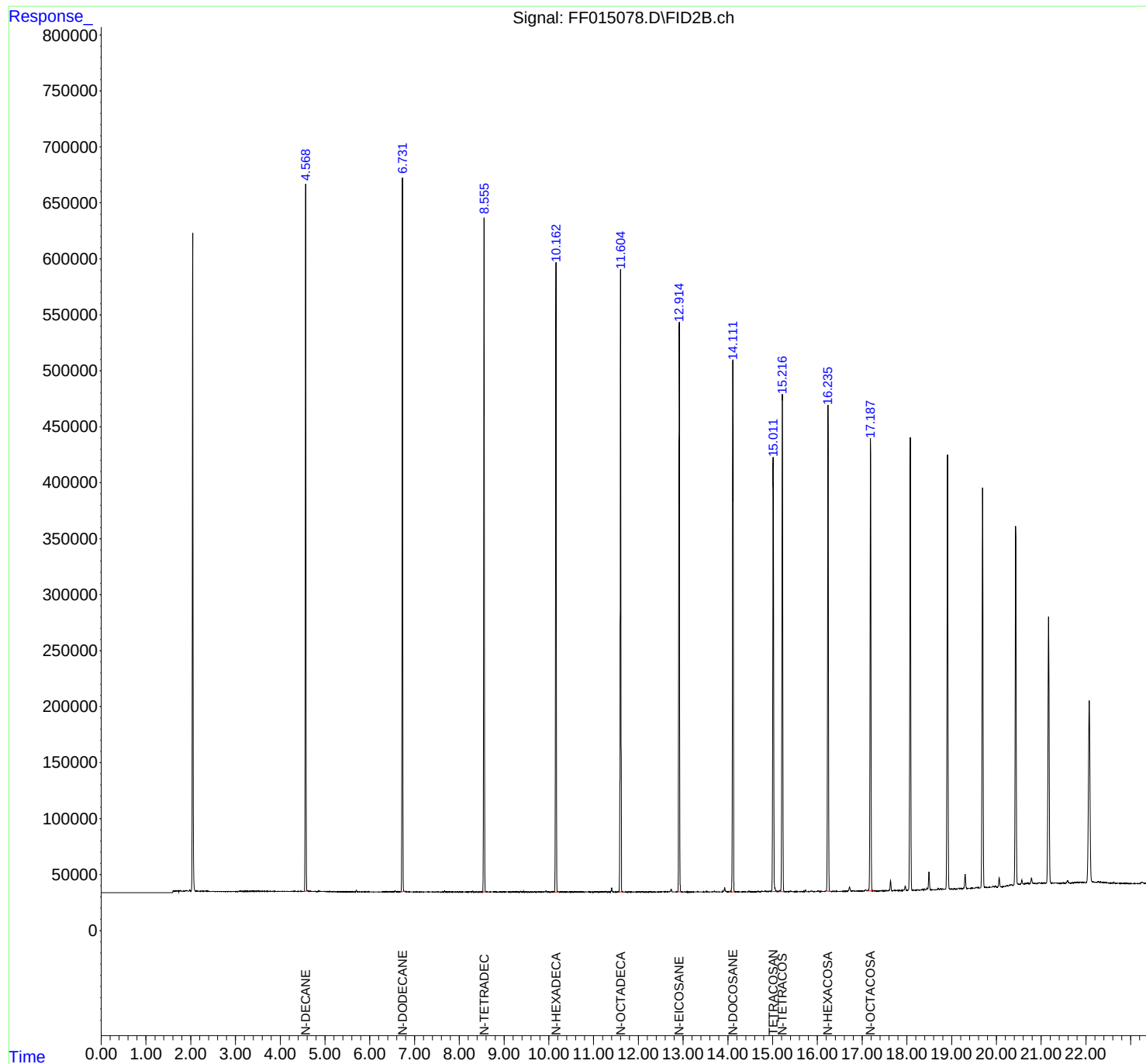
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015078.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 10:56
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Nov 19 00:21:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015078.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 10:56
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.568	4.534	4.617	BB	630510	6477513	99.80%	9.677%
2	6.731	6.692	6.782	BB	637870	6490199	100.00%	9.696%
3	8.555	8.519	8.605	BB	601527	6439645	99.22%	9.620%
4	10.162	10.124	10.212	BB	562616	6348234	97.81%	9.484%
5	11.604	11.555	11.652	BB	554123	6354700	97.91%	9.494%
6	12.914	12.874	12.957	BB	508375	6295784	97.00%	9.406%
7	14.112	14.039	14.154	BB	475774	5999242	92.44%	8.963%
8	15.012	14.967	15.082	BB	387910	5317535	81.93%	7.944%
9	15.216	15.122	15.269	BB	443290	5884157	90.66%	8.791%
10	16.236	16.195	16.290	BB	432922	5719990	88.13%	8.545%
11	17.186	17.119	17.245	BB	404863	5609714	86.43%	8.381%
Sum of corrected areas:						66936712		

FF111324.M Tue Nov 19 01:18:33 2024

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: ENTA05
ProjectID: North Point
Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG No.: P4839
DataFile: FF015083.D Analyst Name: YP\AJ Analyst Date: 11-18-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	71013230	142026	126218	12.524

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
 Data File : FF015083.D
 Signal(s) : FID2B.ch
 Acq On : 18 Nov 2024 13:25
 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: Nov 19 00:22:19 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
 Quant Title :
 QLast Update : Wed Nov 13 12:50:15 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	6132896	55.640 ug/ml
Target Compounds			
2) N-DECANE	4.570	7361542	55.885 ug/ml
3) N-DODECANE	6.733	7402487	55.147 ug/ml
4) N-TETRADECANE	8.558	7373467	57.111 ug/ml
5) N-HEXADECANE	10.165	7306445	56.347 ug/ml
6) N-OCTADECANE	11.607	7337422	55.633 ug/ml
7) N-EICOSANE	12.917	7295740	57.388 ug/ml
8) N-DOCOSANE	14.115	6960500	56.300 ug/ml
10) N-TETRACOSANE	15.218	6798567	55.961 ug/ml
11) N-HEXACOSANE	16.239	6663311	56.493 ug/ml
12) N-OCTACOSANE	17.190	6513749	56.464 ug/ml

(f)=RT Delta > 1/2 Window

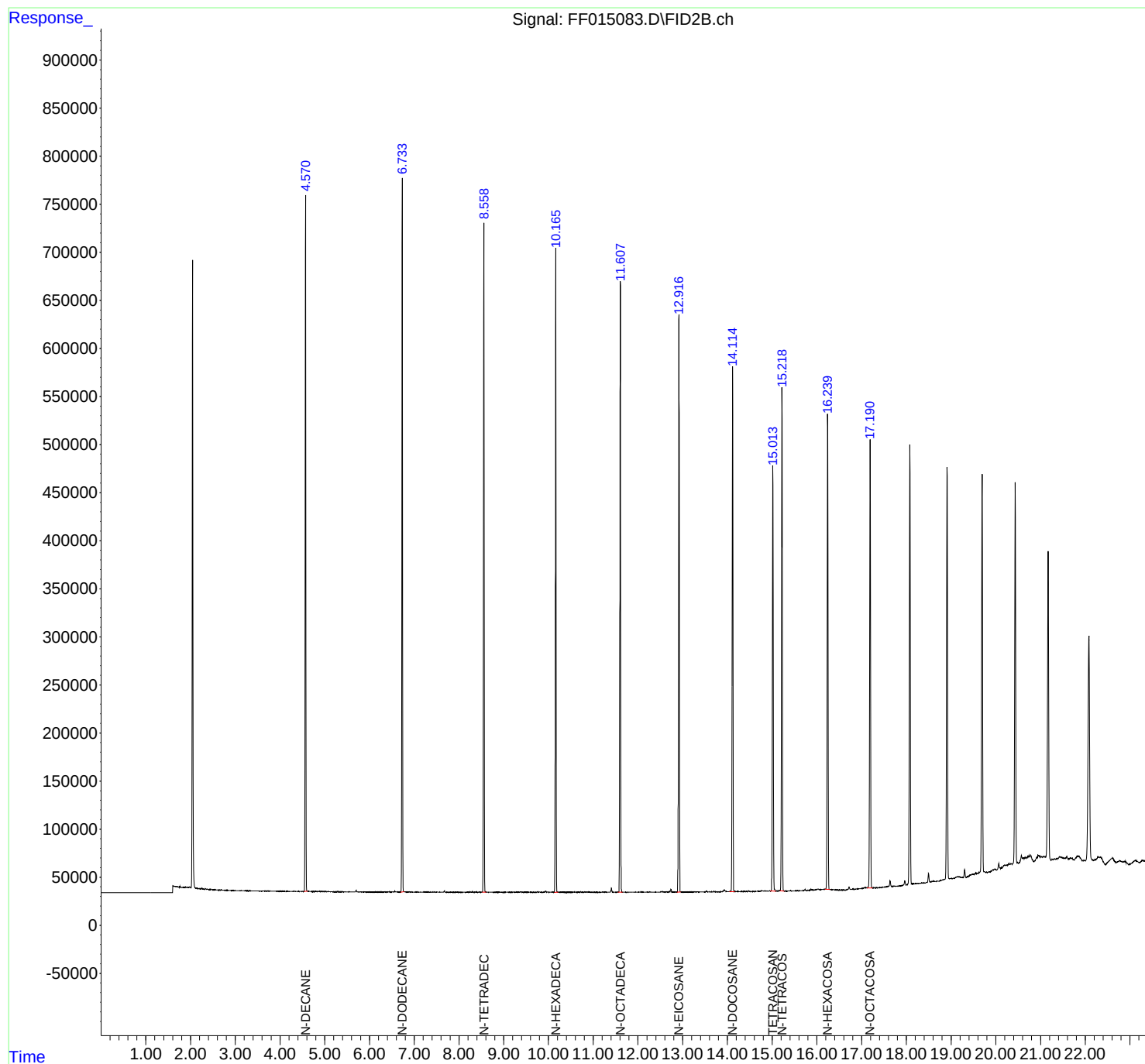
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015083.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 13:25
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: Nov 19 00:22:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015083.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 13:25
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.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	4.532	4.616	BB	724077	7361542	99.45%	9.542%
2	6.733	6.699	6.776	BB	741419	7402487	100.00%	9.595%
3	8.558	8.521	8.604	BB	694854	7373467	99.61%	9.558%
4	10.165	10.127	10.214	BB	669547	7306445	98.70%	9.471%
5	11.607	11.552	11.654	BB	635556	7337422	99.12%	9.511%
6	12.917	12.877	12.954	BB	599861	7295740	98.56%	9.457%
7	14.115	14.042	14.162	BB	546968	6960500	94.03%	9.022%
8	15.014	14.957	15.084	BB	440679	6132896	82.85%	7.950%
9	15.218	15.176	15.272	BB	523890	6798567	91.84%	8.813%
10	16.239	16.174	16.294	BB	493490	6663311	90.01%	8.637%
11	17.190	17.116	17.244	BB	467278	6513749	87.99%	8.443%
Sum of corrected areas:						77146127		

FF111324.M Tue Nov 19 01:19:24 2024

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: ENTA05
ProjectID: North Point
Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG No.: P4839
DataFile: FF015090.D Analyst Name: YP\AJ Analyst Date: 11-18-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	62355408	124711	126218	1.194

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
 Data File : FF015090.D
 Signal(s) : FID2B.ch
 Acq On : 18 Nov 2024 17:40
 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: Nov 19 00:23:25 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
 Quant Title :
 QLast Update : Wed Nov 13 12:50:15 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	5395592	48.951 ug/ml
Target Compounds			
2) N-DECANE	4.570	6475037	49.155 ug/ml
3) N-DODECANE	6.732	6504867	48.460 ug/ml
4) N-TETRADECANE	8.557	6480024	50.191 ug/ml
5) N-HEXADECANE	10.163	6417670	49.493 ug/ml
6) N-OCTADECANE	11.606	6443733	48.857 ug/ml
7) N-EICOSANE	12.916	6406751	50.395 ug/ml
8) N-DOCOSANE	14.115	6114137	49.454 ug/ml
10) N-TETRACOSANE	15.218	5966422	49.112 ug/ml
11) N-HEXACOSANE	16.239	5836239	49.481 ug/ml
12) N-OCTACOSANE	17.189	5710528	49.501 ug/ml

(f)=RT Delta > 1/2 Window

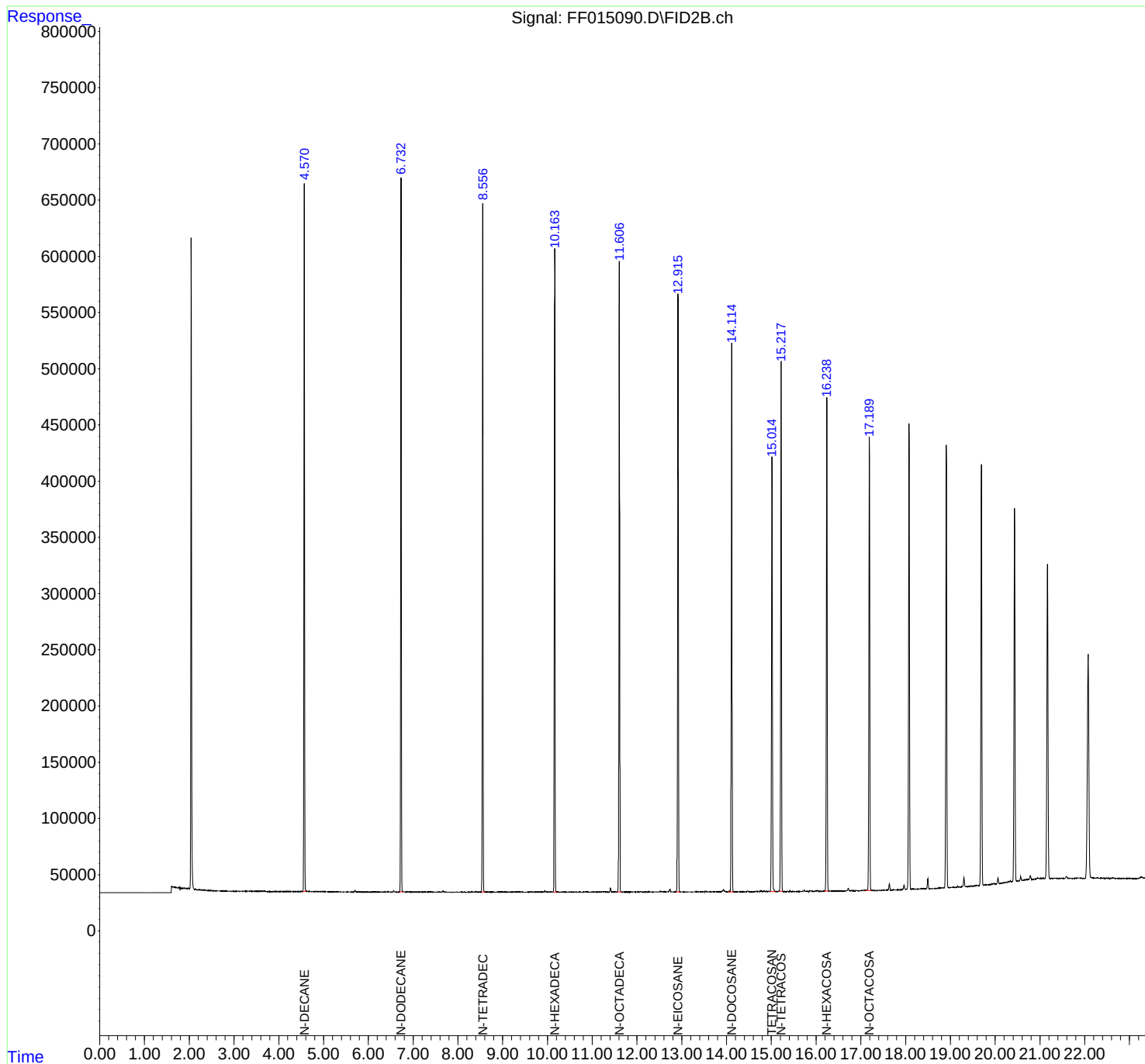
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015090.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 17:40
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: Nov 19 00:23:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015090.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 17:40
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.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	4.529	4.620	BB	630505	6475037	99.54%	9.557%
2	6.732	6.695	6.777	BB	635575	6504867	100.00%	9.601%
3	8.557	8.522	8.605	BB	613028	6480024	99.62%	9.564%
4	10.163	10.127	10.209	BB	572278	6417670	98.66%	9.472%
5	11.606	11.559	11.650	BB	559495	6443733	99.06%	9.511%
6	12.916	12.875	12.965	BB	532378	6406751	98.49%	9.456%
7	14.115	14.040	14.159	BB	487072	6114137	93.99%	9.024%
8	15.014	14.970	15.087	BB	385841	5395592	82.95%	7.964%
9	15.218	15.177	15.259	BB	471190	5966422	91.72%	8.806%
10	16.239	16.195	16.277	BB	438665	5836239	89.72%	8.614%
11	17.189	17.102	17.245	BB	402018	5710528	87.79%	8.429%
Sum of corrected areas:						67750999		

FF111324.M Tue Nov 19 01:20:31 2024

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: ENTA05
ProjectID: North Point
Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG No.: P4839
DataFile: FG014801.D Analyst Name: YP\AJ Analyst Date: 11-15-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	60993997	121988	125431	2.745

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
 Data File : FG014801.D
 Signal(s) : FID1A.ch
 Acq On : 15 Nov 2024 15:39
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Nov 18 01:09:37 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Quant Title :
 QLast Update : Wed Nov 13 13:49:18 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...	15.046	5280016	47.072 ug/ml
Target Compounds			
2) N-DECANE	4.570	6265194	49.615 ug/ml
3) N-DODECANE	6.742	6321033	48.669 ug/ml
4) N-TETRADECANE	8.574	6285742	49.877 ug/ml
5) N-HEXADECANE	10.185	6225498	48.812 ug/ml
6) N-OCTADECANE	11.632	6271685	47.895 ug/ml
7) N-EICOSANE	12.945	6265842	49.209 ug/ml
8) N-DOCOSANE	14.146	5998998	48.026 ug/ml
10) N-TETRACOSANE	15.249	5907785	47.824 ug/ml
11) N-HEXACOSANE	16.271	5786644	48.100 ug/ml
12) N-OCTACOSANE	17.222	5665576	48.190 ug/ml

(f)=RT Delta > 1/2 Window

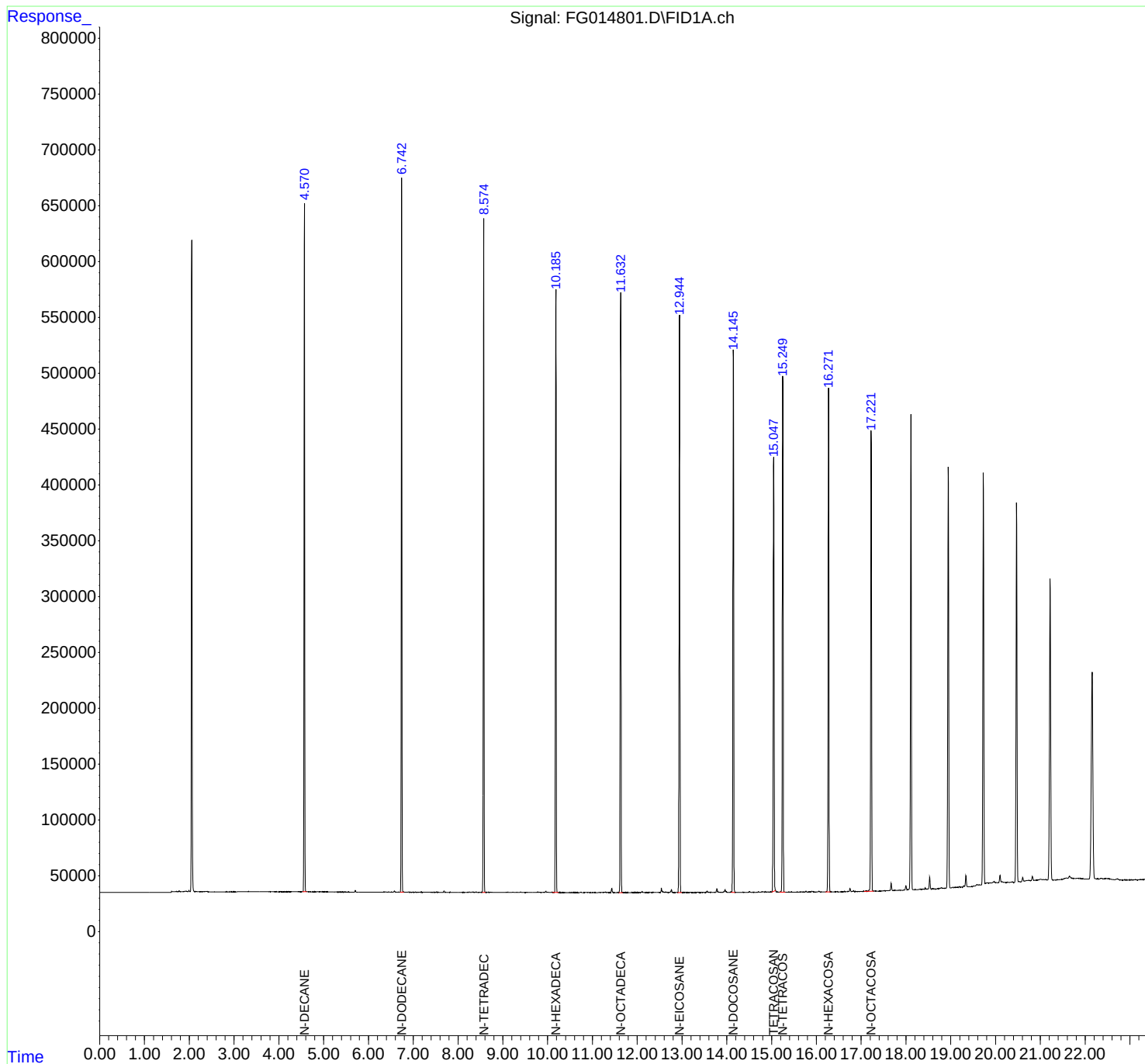
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014801.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 15:39
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Nov 18 01:09:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014801.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 15:39
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.570	4.527	4.623	BB	615706	6265194	99.12%	9.453%
2	6.742	6.709	6.789	BB	638838	6321033	100.00%	9.538%
3	8.574	8.539	8.614	BB	602825	6285742	99.44%	9.484%
4	10.185	10.108	10.243	BB	540288	6225498	98.49%	9.394%
5	11.632	11.589	11.678	BB	538063	6271685	99.22%	9.463%
6	12.945	12.904	12.997	BB	516474	6265842	99.13%	9.454%
7	14.146	14.107	14.183	VB	486057	5998998	94.91%	9.052%
8	15.046	15.000	15.090	BBA	388517	5280016	83.53%	7.967%
9	15.249	15.174	15.306	BB	461805	5907785	93.46%	8.914%
10	16.271	16.203	16.316	BB	451029	5786644	91.55%	8.731%
11	17.222	17.066	17.280	BB	412357	5665576	89.63%	8.549%
Sum of corrected areas:						66274013		

FG111324.M Mon Nov 18 01:59:08 2024

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: ENTA05
ProjectID: North Point
Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG No.: P4839
DataFile: FG014815.D Analyst Name: YP\AJ Analyst Date: 11-15-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	60239686	120479	125431	3.948

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
 Data File : FG014815.D
 Signal(s) : FID1A.ch
 Acq On : 15 Nov 2024 22:45
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Nov 18 01:11:47 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Quant Title :
 QLast Update : Wed Nov 13 13:49:18 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...	15.045	5219439	46.532 ug/ml
Target Compounds			
2) N-DECANE	4.570	6136314	48.594 ug/ml
3) N-DODECANE	6.742	6216232	47.862 ug/ml
4) N-TETRADECANE	8.574	6213866	49.307 ug/ml
5) N-HEXADECANE	10.186	6170689	48.382 ug/ml
6) N-OCTADECANE	11.631	6211914	47.438 ug/ml
7) N-EICOSANE	12.944	6200875	48.699 ug/ml
8) N-DOCOSANE	14.144	5931259	47.484 ug/ml
10) N-TETRACOSANE	15.249	5837740	47.257 ug/ml
11) N-HEXACOSANE	16.271	5717202	47.522 ug/ml
12) N-OCTACOSANE	17.221	5603595	47.662 ug/ml

(f)=RT Delta > 1/2 Window

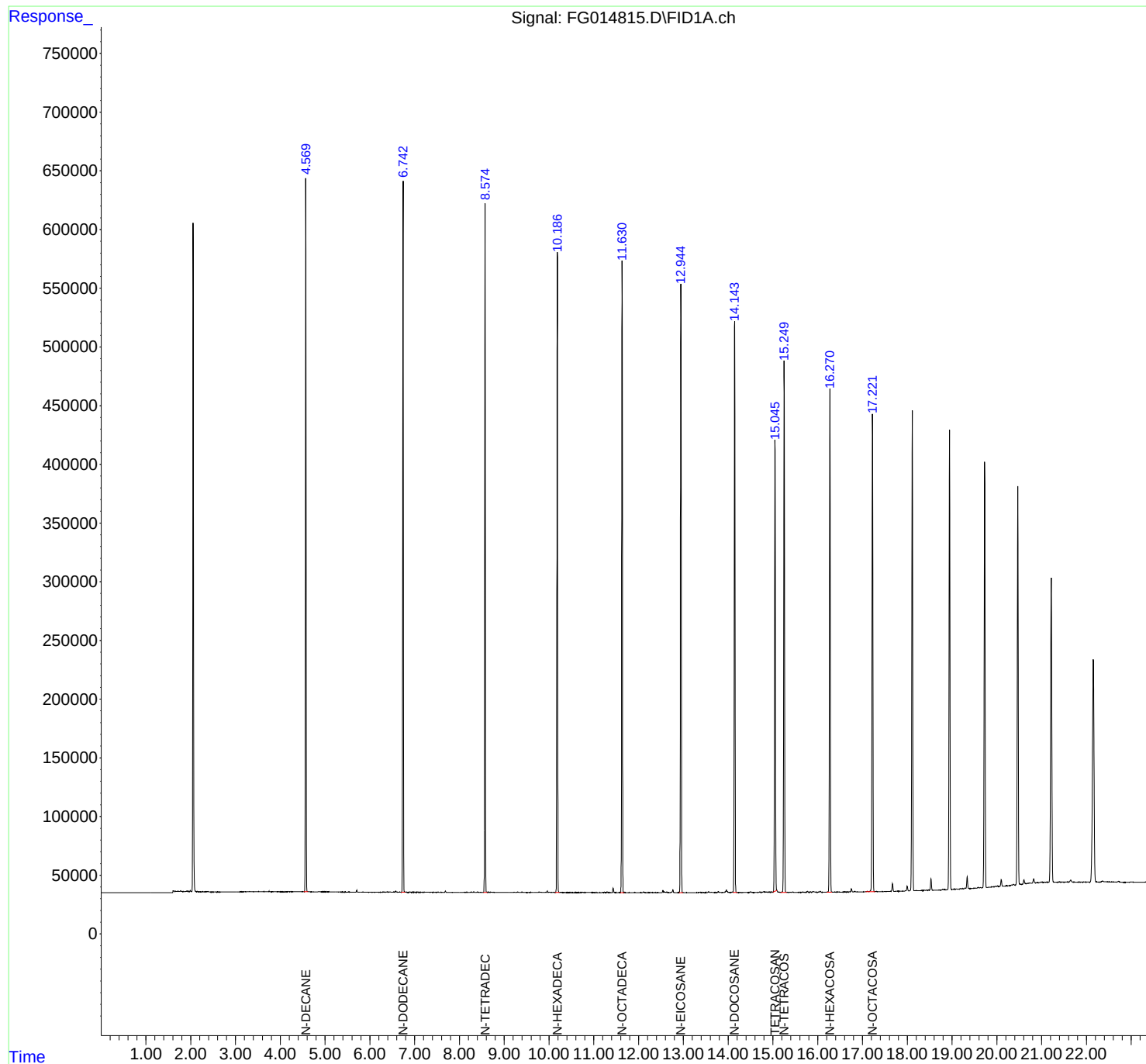
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014815.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 22:45
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Nov 18 01:11:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014815.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 22:45
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.570	4.524	4.618	BB	607224	6136314	98.71%	9.374%
2	6.742	6.697	6.787	BB	605329	6216232	100.00%	9.496%
3	8.574	8.534	8.623	BB	587193	6213866	99.96%	9.493%
4	10.186	10.135	10.233	BB	545154	6170689	99.27%	9.427%
5	11.631	11.590	11.682	BB	537687	6211914	99.93%	9.490%
6	12.944	12.905	12.995	BB	518429	6200875	99.75%	9.473%
7	14.144	14.106	14.199	VB	485894	5931259	95.42%	9.061%
8	15.045	15.000	15.090	BBA	384601	5219439	83.96%	7.974%
9	15.249	15.172	15.309	BB	453072	5837740	93.91%	8.918%
10	16.271	16.202	16.315	BB	428589	5717202	91.97%	8.734%
11	17.221	17.072	17.281	BB	406052	5603595	90.14%	8.560%
Sum of corrected areas:						65459125		

FG111324.M Mon Nov 18 02:01:14 2024

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: ENTA05
ProjectID: North Point
Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG No.: P4839
DataFile: FG014818.D Analyst Name: YP\AJ Analyst Date: 11-16-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	64429157	128858	125431	2.732

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
 Data File : FG014818.D
 Signal(s) : FID1A.ch
 Acq On : 16 Nov 2024 11:31
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Nov 18 05:51:01 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Quant Title :
 QLast Update : Wed Nov 13 13:49:18 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...	15.044	5537692	49.369 ug/ml
Target Compounds			
2) N-DECANE	4.570	6626666	52.477 ug/ml
3) N-DODECANE	6.741	6704359	51.620 ug/ml
4) N-TETRADECANE	8.573	6701218	53.174 ug/ml
5) N-HEXADECANE	10.185	6646594	52.114 ug/ml
6) N-OCTADECANE	11.631	6676623	50.987 ug/ml
7) N-EICOSANE	12.943	6639237	52.142 ug/ml
8) N-DOCOSANE	14.144	6318848	50.587 ug/ml
10) N-TETRACOSANE	15.249	6187688	50.090 ug/ml
11) N-HEXACOSANE	16.270	6032063	50.140 ug/ml
12) N-OCTACOSANE	17.221	5895861	50.148 ug/ml

(f)=RT Delta > 1/2 Window

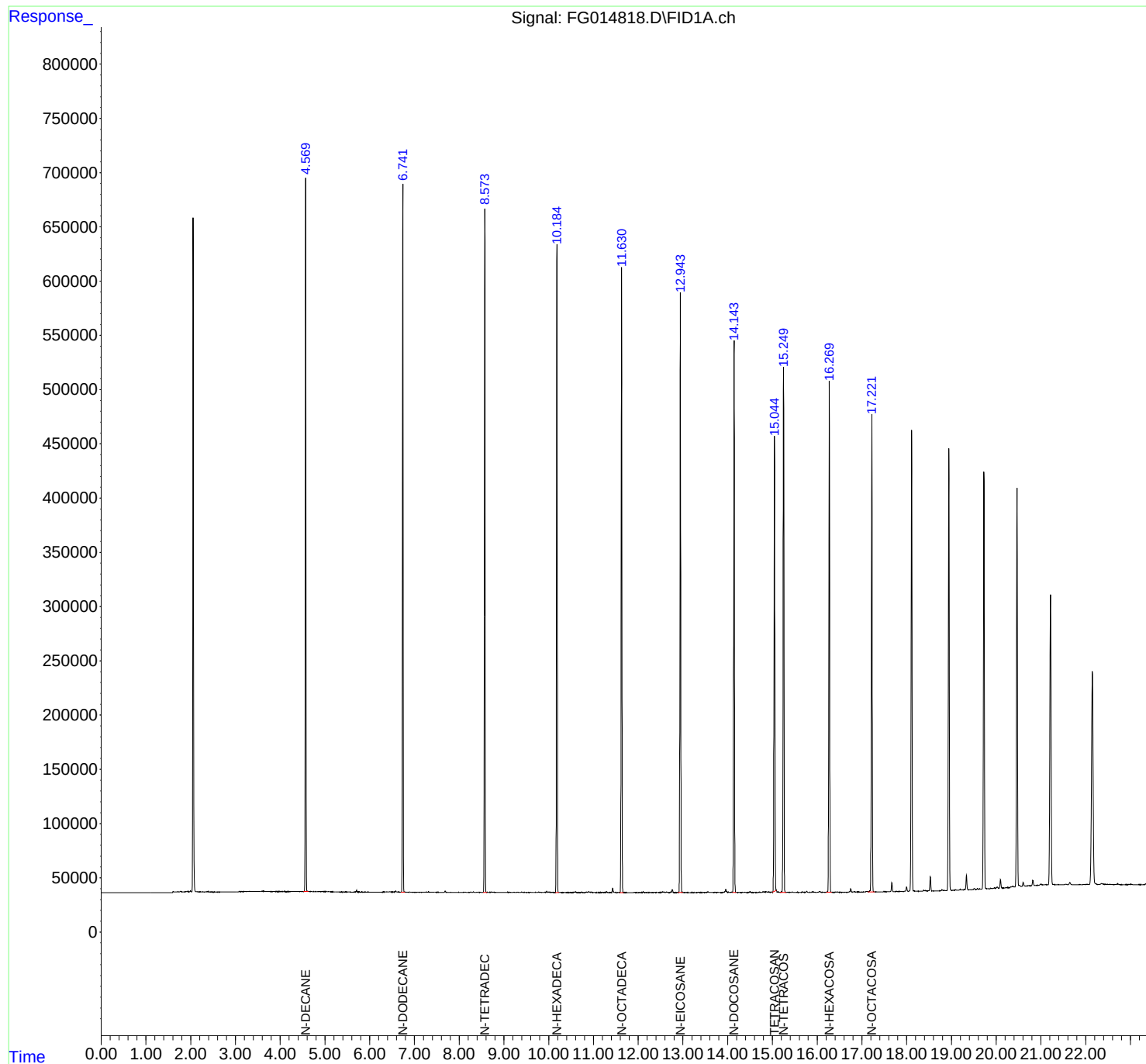
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014818.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 11:31
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Nov 18 05:51:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014818.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 11:31
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.570	4.527	4.628	BB	656668	6626666	98.84%	9.471%
2	6.741	6.700	6.784	BB	653103	6704359	100.00%	9.582%
3	8.573	8.536	8.625	BB	629109	6701218	99.95%	9.578%
4	10.185	10.148	10.228	BB	596951	6646594	99.14%	9.500%
5	11.631	11.582	11.676	BB	575632	6676623	99.59%	9.543%
6	12.943	12.892	12.999	BB	552840	6639237	99.03%	9.489%
7	14.144	14.105	14.187	VB	508388	6318848	94.25%	9.031%
8	15.044	15.000	15.090	BBA	418487	5537692	82.60%	7.915%
9	15.249	15.171	15.307	BB	484639	6187688	92.29%	8.844%
10	16.270	16.204	16.323	BB	471054	6032063	89.97%	8.621%
11	17.221	17.134	17.283	BB	439475	5895861	87.94%	8.427%
Sum of corrected areas:						69966851		

FG111324.M Mon Nov 18 06:35:04 2024

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: ENTA05
ProjectID: North Point
Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG No.: P4839
DataFile: FG014833.D Analyst Name: YP\AJ Analyst Date: 11-16-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	63720265	127441	125431	1.602

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
 Data File : FG014833.D
 Signal(s) : FID1A.ch
 Acq On : 16 Nov 2024 18:37
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Nov 18 05:52:43 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Quant Title :
 QLast Update : Wed Nov 13 13:49:18 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...	15.044	5487845	48.924 ug/ml
Target Compounds			
2) N-DECANE	4.569	6520896	51.640 ug/ml
3) N-DODECANE	6.741	6604681	50.853 ug/ml
4) N-TETRADECANE	8.573	6601723	52.385 ug/ml
5) N-HEXADECANE	10.185	6554074	51.388 ug/ml
6) N-OCTADECANE	11.631	6591720	50.339 ug/ml
7) N-EICOSANE	12.943	6569336	51.593 ug/ml
8) N-DOCOSANE	14.143	6266074	50.164 ug/ml
10) N-TETRACOSANE	15.248	6144806	49.743 ug/ml
11) N-HEXACOSANE	16.270	6001704	49.887 ug/ml
12) N-OCTACOSANE	17.221	5865251	49.888 ug/ml

(f)=RT Delta > 1/2 Window

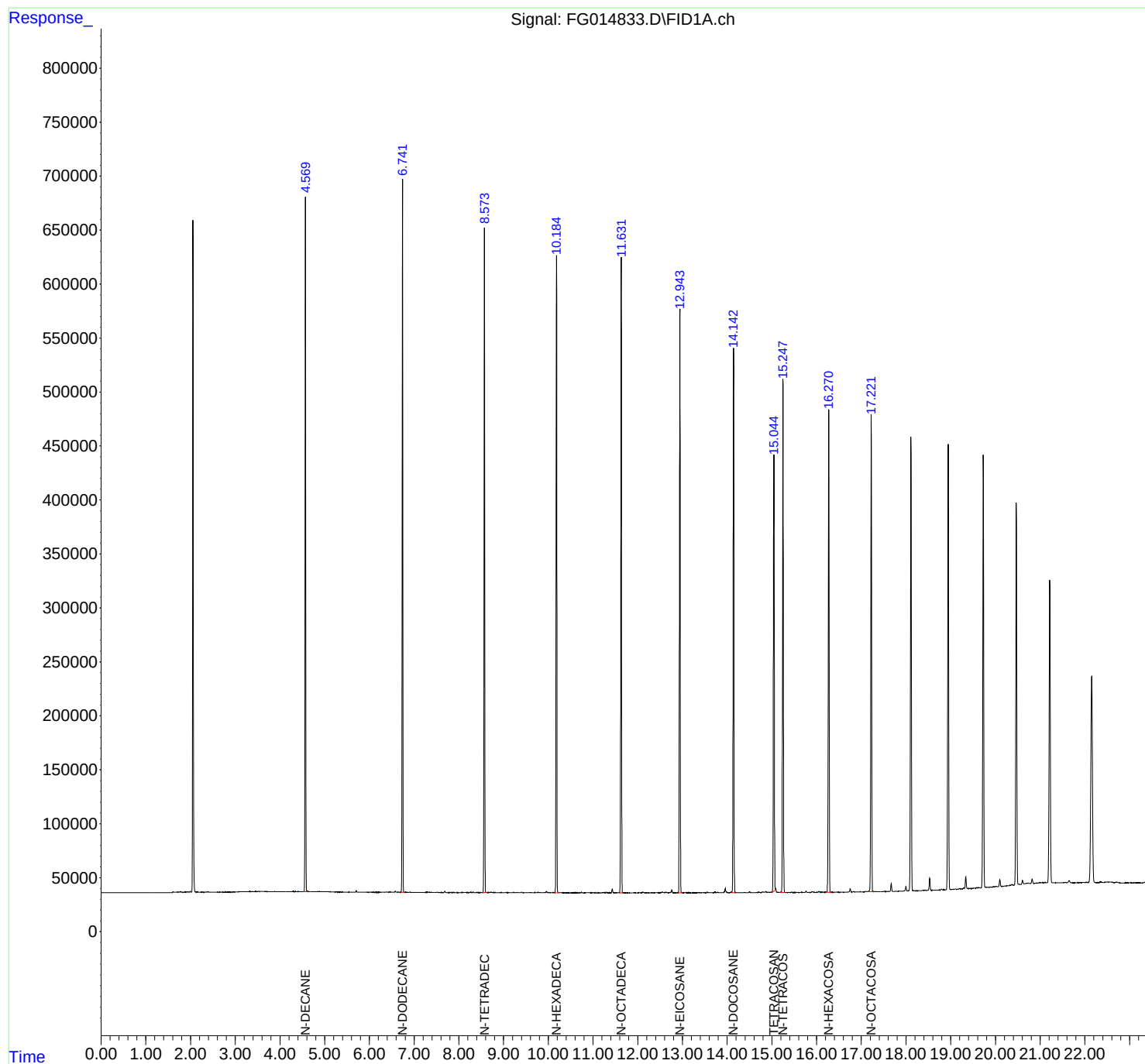
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014833.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 18:37
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Nov 18 05:52:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014833.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 18:37
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.569	4.523	4.622	BB	644160	6520896	98.73%	9.422%
2	6.741	6.699	6.785	BB	661077	6604681	100.00%	9.543%
3	8.573	8.533	8.623	BB	615389	6601723	99.96%	9.539%
4	10.185	10.145	10.238	BB	589548	6554074	99.23%	9.470%
5	11.631	11.582	11.677	BB	588067	6591720	99.80%	9.524%
6	12.943	12.902	12.999	BB	541509	6569336	99.46%	9.492%
7	14.143	14.105	14.188	VB	504298	6266074	94.87%	9.054%
8	15.044	15.000	15.090	BBA	404397	5487845	83.09%	7.929%
9	15.248	15.172	15.308	BB	474822	6144806	93.04%	8.879%
10	16.270	16.203	16.329	BB	446643	6001704	90.87%	8.672%
11	17.221	17.144	17.283	BB	441413	5865251	88.80%	8.475%
Sum of corrected areas:						69208109		

FG111324.M Mon Nov 18 06:36:46 2024

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: ENTA05
ProjectID: North Point
Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG No.: P4839
DataFile: FG014837.D Analyst Name: YP\AJ Analyst Date: 11-16-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65232706	130465	125431	4.013

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
 Data File : FG014837.D
 Signal(s) : FID1A.ch
 Acq On : 16 Nov 2024 21:26
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Nov 18 06:19:27 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Quant Title :
 QLast Update : Wed Nov 13 13:49:18 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...	15.044	5612194	50.033 ug/ml
Target Compounds			
2) N-DECANE	4.569	6714473	53.173 ug/ml
3) N-DODECANE	6.741	6792557	52.300 ug/ml
4) N-TETRADECANE	8.573	6776490	53.771 ug/ml
5) N-HEXADECANE	10.184	6709984	52.611 ug/ml
6) N-OCTADECANE	11.630	6735346	51.436 ug/ml
7) N-EICOSANE	12.943	6704998	52.658 ug/ml
8) N-DOCOSANE	14.142	6399049	51.229 ug/ml
10) N-TETRACOSANE	15.249	6275294	50.800 ug/ml
11) N-HEXACOSANE	16.270	6132523	50.975 ug/ml
12) N-OCTACOSANE	17.220	5991992	50.966 ug/ml

(f)=RT Delta > 1/2 Window

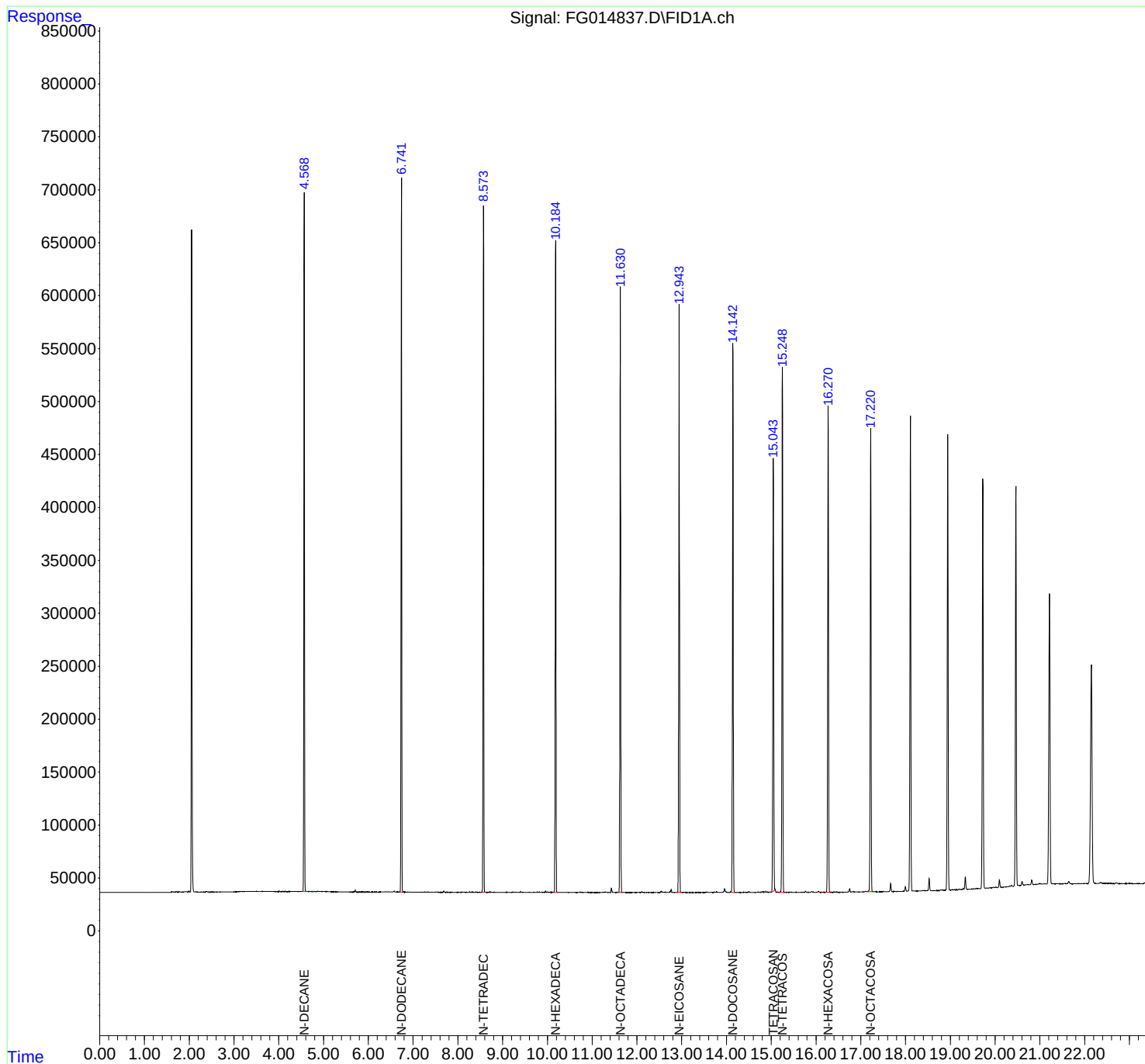
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014837.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 21:26
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Nov 18 06:19:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014837.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 21:26
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.569	4.527	4.625	BB	659410	6714473	98.85%	9.478%
2	6.741	6.698	6.784	BB	673638	6792557	100.00%	9.588%
3	8.573	8.536	8.617	BB	648122	6776490	99.76%	9.565%
4	10.184	10.141	10.236	BB	615529	6709984	98.78%	9.471%
5	11.630	11.589	11.675	BB	572172	6735346	99.16%	9.507%
6	12.943	12.888	12.999	BB	554544	6704998	98.71%	9.464%
7	14.142	14.105	14.188	VB	517749	6399049	94.21%	9.032%
8	15.044	15.000	15.090	BBA	408851	5612194	82.62%	7.922%
9	15.249	15.168	15.304	BB	495500	6275294	92.38%	8.858%
10	16.270	16.205	16.320	BB	459699	6132523	90.28%	8.656%
11	17.220	17.142	17.279	BB	437321	5991992	88.21%	8.458%
Sum of corrected areas:						70844901		

FG111324.M Mon Nov 18 06:37:44 2024

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: ENTA05
ProjectID: North Point
Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG No.: P4839
DataFile: FG014840.D Analyst Name: YP\AJ Analyst Date: 11-18-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	73892765	147786	125431	17.823

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
 Data File : FG014840.D
 Signal(s) : FID1A.ch
 Acq On : 18 Nov 2024 09:15
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Nov 19 01:29:56 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Quant Title :
 QLast Update : Wed Nov 13 13:49:18 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...	15.044	6323725	56.376 ug/ml
Target Compounds			
2) N-DECANE	4.569	7783665	61.640 ug/ml
3) N-DODECANE	6.741	7817550	60.191 ug/ml
4) N-TETRADECANE	8.573	7734664	61.374 ug/ml
5) N-HEXADECANE	10.184	7612634	59.688 ug/ml
6) N-OCTADECANE	11.631	7617675	58.174 ug/ml
7) N-EICOSANE	12.943	7552630	59.315 ug/ml
8) N-DOCOSANE	14.144	7186890	57.536 ug/ml
10) N-TETRACOSANE	15.249	7031578	56.922 ug/ml
11) N-HEXACOSANE	16.270	6858962	57.013 ug/ml
12) N-OCTACOSANE	17.220	6696517	56.958 ug/ml

(f)=RT Delta > 1/2 Window

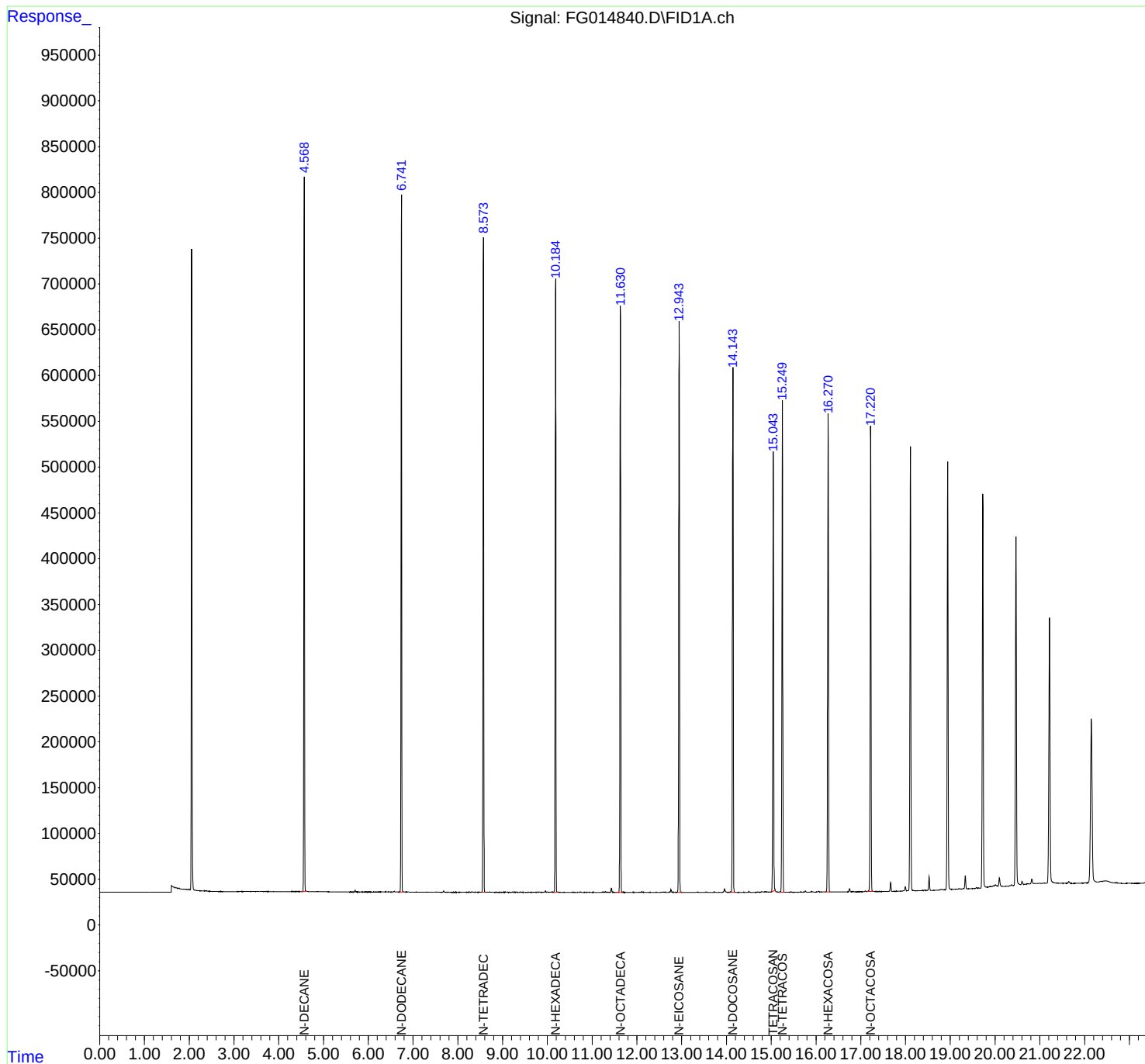
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014840.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 09:15
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Nov 19 01:29:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014840.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 09:15
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.569	4.523	4.638	BB	780030	7783665	99.57%	9.703%
2	6.741	6.702	6.798	BB	761369	7817550	100.00%	9.746%
3	8.573	8.537	8.616	BB	713963	7734664	98.94%	9.642%
4	10.184	10.143	10.232	BB	669476	7612634	97.38%	9.490%
5	11.631	11.528	11.671	BB	639632	7617675	97.44%	9.496%
6	12.943	12.902	12.993	BB	622737	7552630	96.61%	9.415%
7	14.144	14.103	14.189	VB	572699	7186890	91.93%	8.959%
8	15.044	15.000	15.090	BBA	479776	6323725	80.89%	7.883%
9	15.249	15.178	15.300	BB	534654	7031578	89.95%	8.766%
10	16.270	16.203	16.320	BB	521346	6858962	87.74%	8.551%
11	17.220	17.133	17.288	BB	508378	6696517	85.66%	8.348%
Sum of corrected areas:						80216493		

FG111324.M Tue Nov 19 02:21:45 2024

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: ENTA05
ProjectID: North Point
Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG No.: P4839
DataFile: FG014848.D Analyst Name: YP\AJ Analyst Date: 11-18-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	62317828	124636	125431	0.634

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
 Data File : FG014848.D
 Signal(s) : FID1A.ch
 Acq On : 18 Nov 2024 13:25
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Nov 19 01:31:06 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Quant Title :
 QLast Update : Wed Nov 13 13:49:18 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...	15.043	5355046	47.741 ug/ml
Target Compounds			
2) N-DECANE	4.569	6462257	51.175 ug/ml
3) N-DODECANE	6.741	6517701	50.183 ug/ml
4) N-TETRADECANE	8.572	6485221	51.460 ug/ml
5) N-HEXADECANE	10.184	6411857	50.273 ug/ml
6) N-OCTADECANE	11.630	6433830	49.133 ug/ml
7) N-EICOSANE	12.943	6401577	50.275 ug/ml
8) N-DOCOSANE	14.143	6095583	48.799 ug/ml
10) N-TETRACOSANE	15.248	5972641	48.350 ug/ml
11) N-HEXACOSANE	16.269	5830695	48.466 ug/ml
12) N-OCTACOSANE	17.220	5706466	48.537 ug/ml

(f)=RT Delta > 1/2 Window

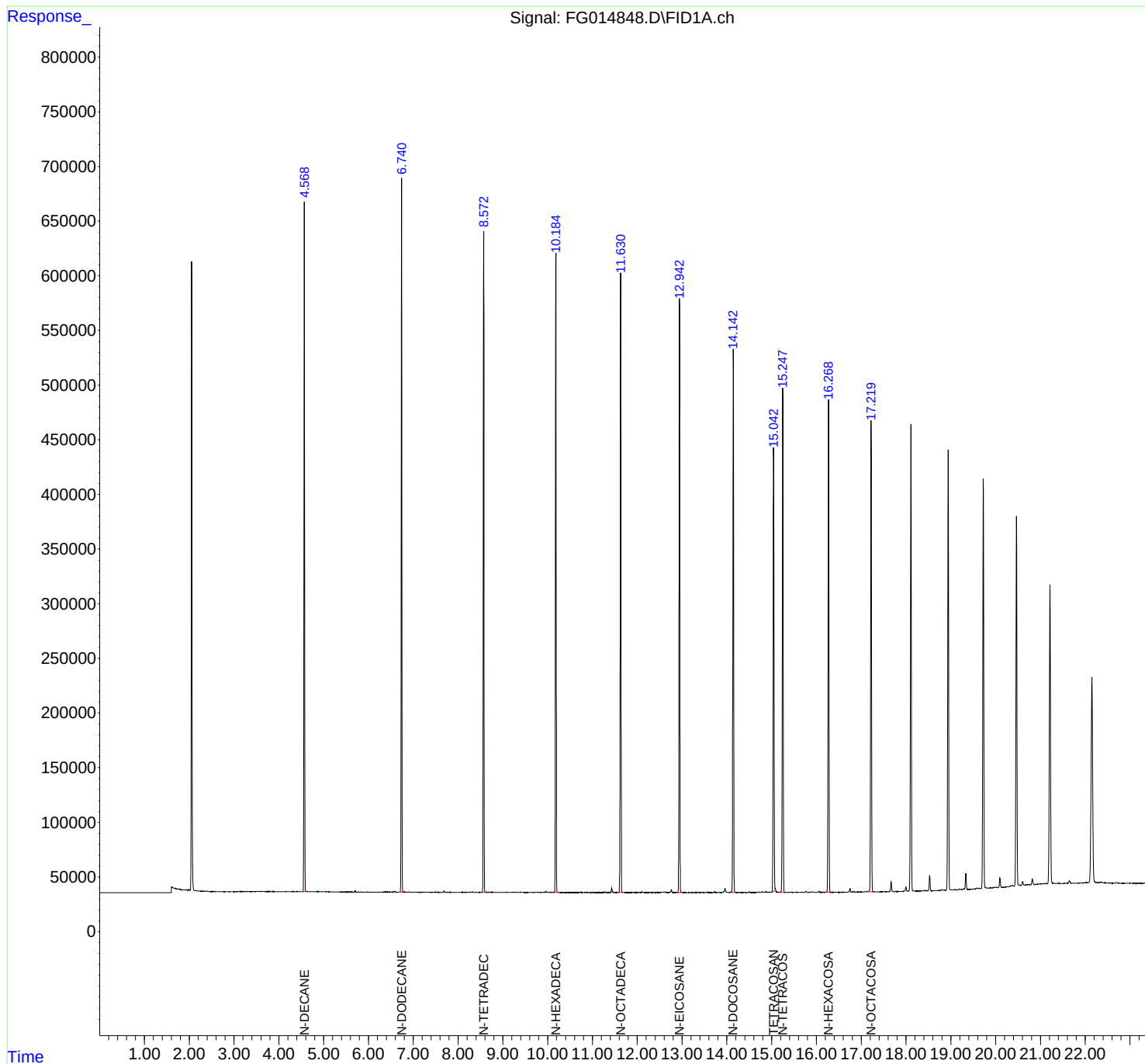
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014848.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 13:25
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Nov 19 01:31:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014848.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 13:25
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.569	4.522	4.632	BB	630548	6462257	99.15%	9.549%
2	6.741	6.692	6.797	BB	652954	6517701	100.00%	9.631%
3	8.572	8.536	8.624	BB	604413	6485221	99.50%	9.583%
4	10.184	10.136	10.230	BB	585670	6411857	98.38%	9.475%
5	11.630	11.578	11.677	BB	567090	6433830	98.71%	9.507%
6	12.943	12.900	12.995	BB	543566	6401577	98.22%	9.460%
7	14.143	14.104	14.184	VB	497016	6095583	93.52%	9.007%
8	15.043	15.000	15.090	BBA	405821	5355046	82.16%	7.913%
9	15.248	15.166	15.309	BB	461232	5972641	91.64%	8.826%
10	16.269	16.204	16.329	BB	450517	5830695	89.46%	8.616%
11	17.220	17.143	17.283	BB	431063	5706466	87.55%	8.432%
Sum of corrected areas:						67672873		

FG111324.M Tue Nov 19 02:23:03 2024

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: ENTA05
ProjectID: North Point
Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG No.: P4839
DataFile: FG014859.D Analyst Name: YP\AJ Analyst Date: 11-18-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
500	64249931	128500	125431	2.447

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
 Data File : FG014859.D
 Signal(s) : FID1A.ch
 Acq On : 18 Nov 2024 19:05
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Nov 19 01:32:39 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Quant Title :
 QLast Update : Wed Nov 13 13:49:18 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...	15.044	5539607	49.386 ug/ml
Target Compounds			
2) N-DECANE	4.569	6568019	52.013 ug/ml
3) N-DODECANE	6.741	6644877	51.162 ug/ml
4) N-TETRADECANE	8.573	6630306	52.611 ug/ml
5) N-HEXADECANE	10.184	6583671	51.620 ug/ml
6) N-OCTADECANE	11.630	6628925	50.623 ug/ml
7) N-EICOSANE	12.942	6618423	51.978 ug/ml
8) N-DOCOSANE	14.144	6326510	50.648 ug/ml
10) N-TETRACOSANE	15.249	6212385	50.290 ug/ml
11) N-HEXACOSANE	16.270	6078614	50.527 ug/ml
12) N-OCTACOSANE	17.221	5958201	50.679 ug/ml

(f)=RT Delta > 1/2 Window

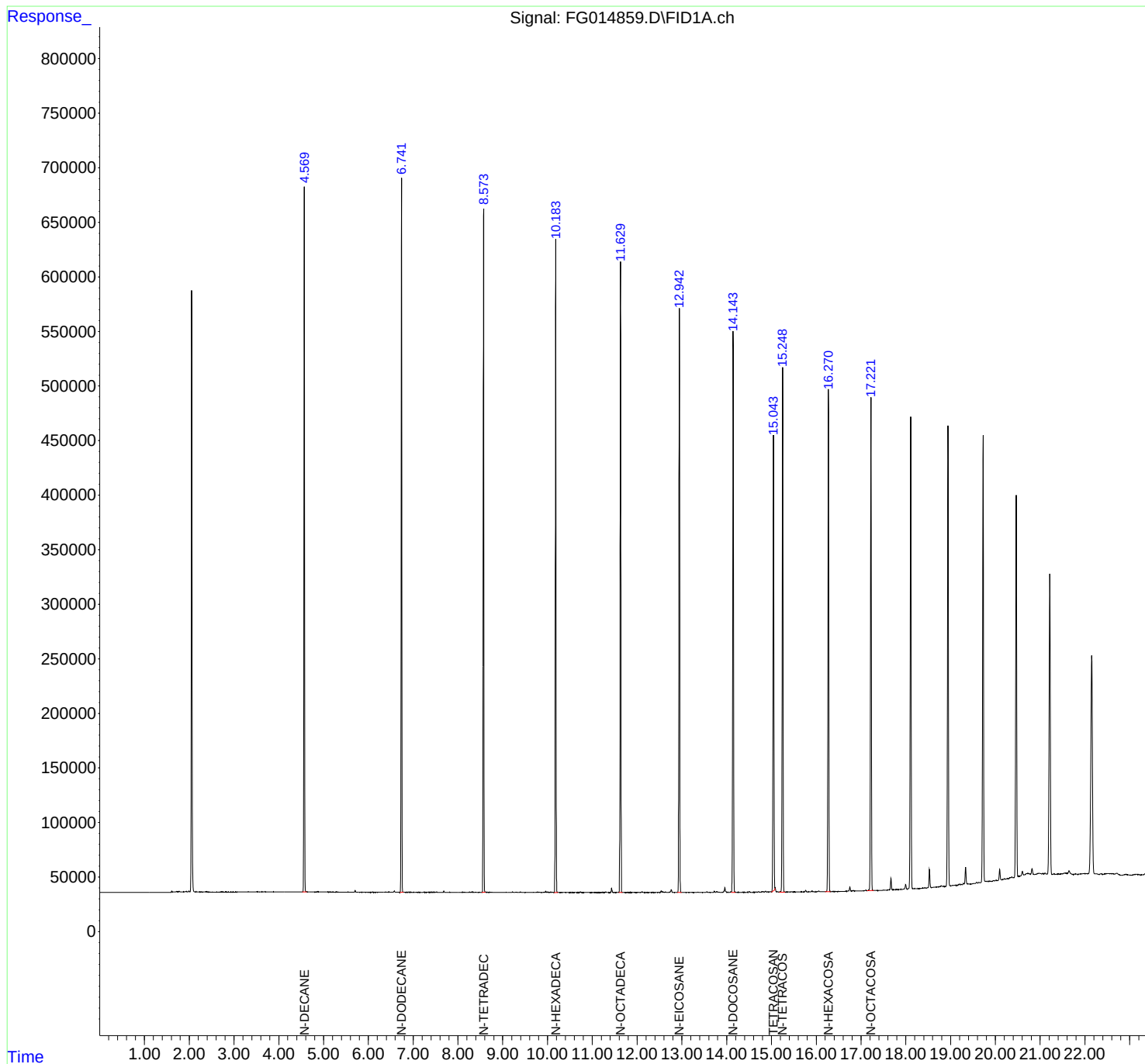
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014859.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 19:05
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Nov 19 01:32:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014859.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 19:05
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.569	4.525	4.625	BB	646165	6568019	98.84%	9.411%
2	6.741	6.704	6.788	BB	654121	6644877	100.00%	9.521%
3	8.573	8.532	8.613	BB	627208	6630306	99.78%	9.500%
4	10.184	10.145	10.235	BB	598526	6583671	99.08%	9.434%
5	11.630	11.593	11.675	BB	577616	6628925	99.76%	9.498%
6	12.942	12.901	12.992	BB	534306	6618423	99.60%	9.483%
7	14.144	14.106	14.196	VB	513519	6326510	95.21%	9.065%
8	15.044	15.000	15.076	BV	417296	5539607	83.37%	7.938%
9	15.249	15.173	15.306	BB	480576	6212385	93.49%	8.902%
10	16.270	16.198	16.317	BB	460207	6078614	91.48%	8.710%
11	17.221	17.131	17.285	BB	451552	5958201	89.67%	8.537%
Sum of corrected areas:						69789538		

FG111324.M Tue Nov 19 02:24:02 2024

Analytical Sequence

Client: ENTACT

SDG No.: P4839

Project: North Point

Instrument ID: FID_G

GC Column: RXI-1MS

ID: 0.18 (mm)

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

MEAN SUROGATE RT FROM INITIAL CALIBRATION 15.0152					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	18 Nov 2024 10:28	FF015077.D	15.009	
50 PPM TRPH STD	50 PPM TRPH STD	18 Nov 2024 10:56	FF015078.D	15.012	
EX-4-TPH-6	P4839-22	18 Nov 2024 12:28	FF015081.D	14.957	
PIBLK02	LBLK02	18 Nov 2024 12:57	FF015082.D	15.012	
50 PPM TRPH STD	50 PPM TRPH STD	18 Nov 2024 13:25	FF015083.D	15.014	
PB165028BL	PB165028BL	18 Nov 2024 14:22	FF015084.D	15.011	
PB165028BS	PB165028BS	18 Nov 2024 14:50	FF015085.D	15.010	
EX-4-TPH-6MS	P4839-22MS	18 Nov 2024 15:18	FF015086.D	15.010	
EX-4-TPH-6MSD	P4839-22MSD	18 Nov 2024 15:47	FF015087.D	15.011	
EX-4-TPH-5	P4839-21	18 Nov 2024 16:15	FF015088.D	00.000	
PIBLK03	LBLK03	18 Nov 2024 16:43	FF015089.D	15.011	
50 PPM TRPH STD	50 PPM TRPH STD	18 Nov 2024 17:40	FF015090.D	15.014	
PIBLK04	LBLK04	15 Nov 2024 15:11	FG014800.D	15.043	
50 PPM TRPH STD	50 PPM TRPH STD	15 Nov 2024 15:39	FG014801.D	15.046	
PB164995BL	PB164995BL	15 Nov 2024 17:04	FG014803.D	15.042	
PB164995BS	PB164995BS	15 Nov 2024 17:33	FG014804.D	15.042	
EX-9-TPH-12	P4839-04	15 Nov 2024 18:58	FG014807.D	15.042	
EX-9-TPH-16	P4839-08	15 Nov 2024 20:51	FG014811.D	15.042	
PIBLK05	LBLK05	15 Nov 2024 22:17	FG014814.D	15.042	
50 PPM TRPH STD	50 PPM TRPH STD	15 Nov 2024 22:45	FG014815.D	15.045	
PIBLK06	LBLK06	16 Nov 2024 11:03	FG014817.D	15.041	
50 PPM TRPH STD	50 PPM TRPH STD	16 Nov 2024 11:31	FG014818.D	15.044	
EX-9-TPH-18	P4839-10	16 Nov 2024 12:28	FG014820.D	15.041	
EX-9-TPH-18MS	P4839-10MS	16 Nov 2024 12:56	FG014821.D	15.039	
EX-9-TPH-18MSD	P4839-10MSD	16 Nov 2024 13:25	FG014822.D	15.040	
EX-10-TPH-1	P4839-14	16 Nov 2024 14:50	FG014825.D	15.041	
EX-9-TPH-20	P4839-12	16 Nov 2024 15:46	FG014827.D	15.041	
EX-10-TPH-3	P4839-16	16 Nov 2024 16:43	FG014829.D	15.040	
PIBLK07	LBLK07	16 Nov 2024 18:08	FG014832.D	15.042	
50 PPM TRPH STD	50 PPM TRPH STD	16 Nov 2024 18:37	FG014833.D	15.044	
EX-4-TPH-2	P4839-18	16 Nov 2024 19:33	FG014834.D	15.041	
EX-4-TPH-3	P4839-19	16 Nov 2024 20:02	FG014835.D	15.040	
PIBLK08	LBLK08	16 Nov 2024 20:30	FG014836.D	15.040	
50 PPM TRPH STD	50 PPM TRPH STD	16 Nov 2024 21:26	FG014837.D	15.044	
PIBLK09	LBLK09	18 Nov 2024 08:47	FG014839.D	15.040	
50 PPM TRPH STD	50 PPM TRPH STD	18 Nov 2024 09:15	FG014840.D	15.044	
EX-9-TPH-9	P4839-01	18 Nov 2024 10:28	FG014842.D	15.041	
EX-10-TPH-2	P4839-15	18 Nov 2024 10:56	FG014843.D	15.040	
EX-9-TPH-19	P4839-11	18 Nov 2024 11:24	FG014844.D	15.040	
EX-9-TPH-21	P4839-13	18 Nov 2024 12:00	FG014845.D	15.041	

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

QC Limits
(± 0.10 minutes)

Lower Limit
14.9442

Upper Limits
15.1442

Analytical Sequence

Client: ENTACT

SDG No.: P4839

Project: North Point

Instrument ID: FID_G

GC Column: RXI-1MS

ID: 0.18 (mm)

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

MEAN SUROGATE RT FROM INITIAL CALIBRATION 15.0442					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
EX-9-TPH-10	P4839-02	18 Nov 2024 12:28	FG014846.D	15.039	
PIBLK10	LBLK10	18 Nov 2024 12:57	FG014847.D	15.041	
50 PPM TRPH STD	50 PPM TRPH STD	18 Nov 2024 13:25	FG014848.D	15.043	
EX-9-TPH-11	P4839-03	18 Nov 2024 13:53	FG014849.D	15.039	
EX-9-TPH-13	P4839-05	18 Nov 2024 14:22	FG014850.D	15.038	
EX-9-TPH-14	P4839-06	18 Nov 2024 14:50	FG014851.D	00.000	
EX-9-TPH-15	P4839-07	18 Nov 2024 15:18	FG014852.D	15.040	
EX-9-TPH-17	P4839-09	18 Nov 2024 15:47	FG014853.D	15.039	
EX-4-TPH-1	P4839-17	18 Nov 2024 17:12	FG014856.D	15.041	
EX-4-TPH-4	P4839-20	18 Nov 2024 17:40	FG014857.D	15.041	
PIBLK11	LBLK11	18 Nov 2024 18:08	FG014858.D	15.042	
50 PPM TRPH STD	50 PPM TRPH STD	18 Nov 2024 19:05	FG014859.D	15.044	



QC SAMPLE DATA

Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB164995BL		SDG No.:	P4839	
Lab Sample ID:	PB164995BL		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
FG014803.D	1	11/14/24 13:15	11/15/24 17:04	PB164995

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	16.9		37 - 130	84%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014803.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 17:04
Operator : YP\AJ
Sample : PB164995BL
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164995BL

Integration File: autoint1.e
Quant Time: Nov 18 01:09:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.042	1894305	16.888 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

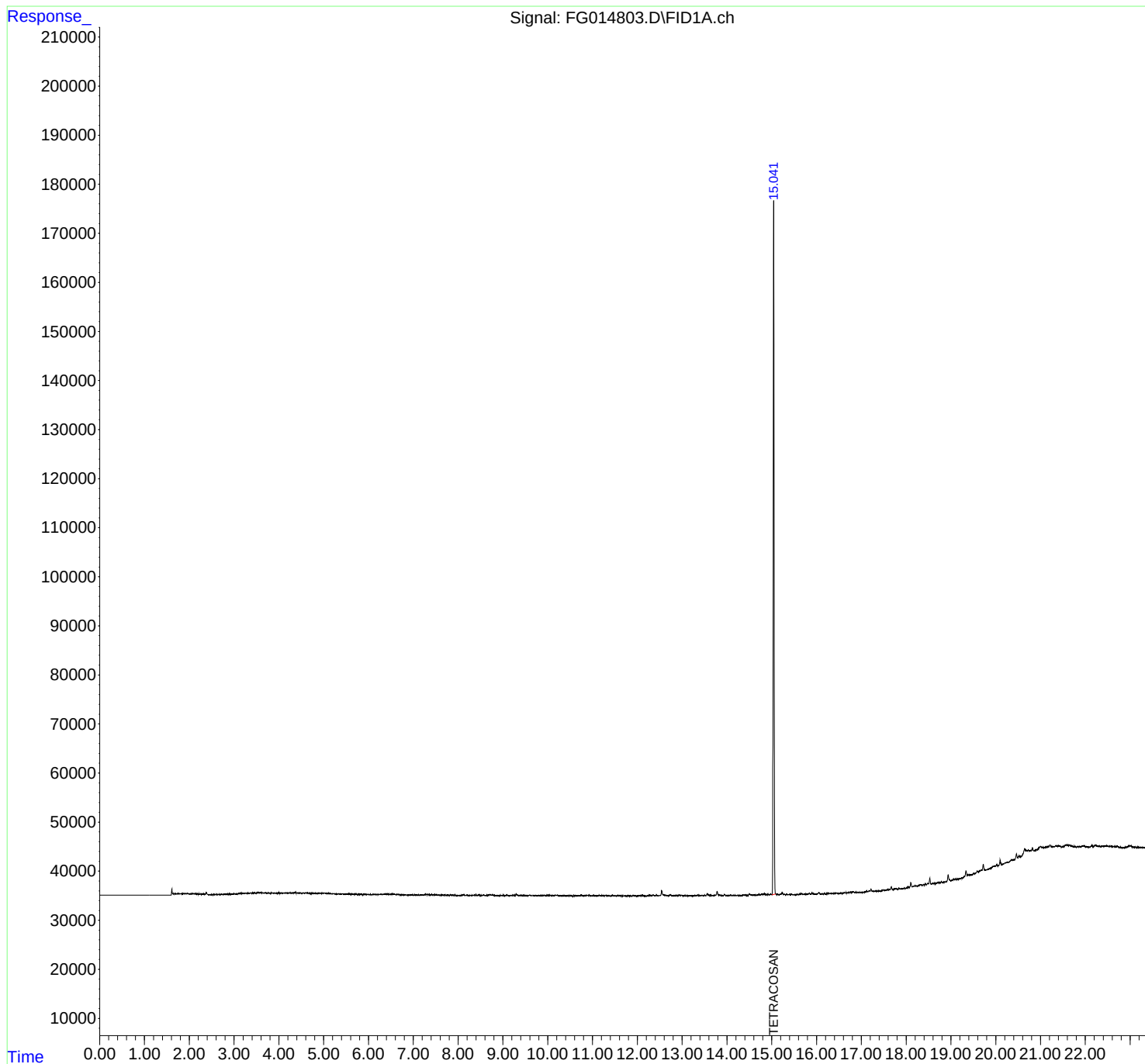
(m)=manual int.

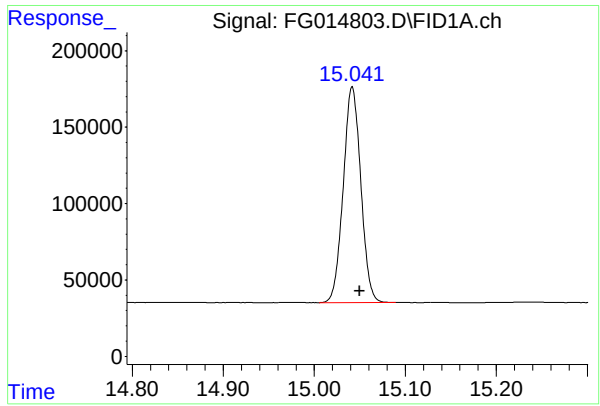
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014803.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 17:04
Operator : YP\AJ
Sample : PB164995BL
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164995BL

Integration File: autoint1.e
Quant Time: Nov 18 01:09:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.042 min
Delta R.T.: -0.008 min
Response: 1894305
Conc: 16.89 ug/ml

Instrument :
FID_G
ClientSampleId :
PB164995BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014803.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 17:04
Sample : PB164995BL
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.042	15.005	15.090	BBA	141429	1894305	100.00%	100.000%
Sum of corrected areas:						1894305		

FG111324.M Mon Nov 18 02:00:16 2024

Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB165028BL		SDG No.:	P4839	
Lab Sample ID:	PB165028BL		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
FF015084.D	1	11/16/24 08:20	11/18/24 14:22	PB165028

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	16.7		37 - 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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015084.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 14:22
Operator : YP\AJ
Sample : PB165028BL
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB165028BL

Integration File: autoint1.e
Quant Time: Nov 19 00:22:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 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	1837690	16.672 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

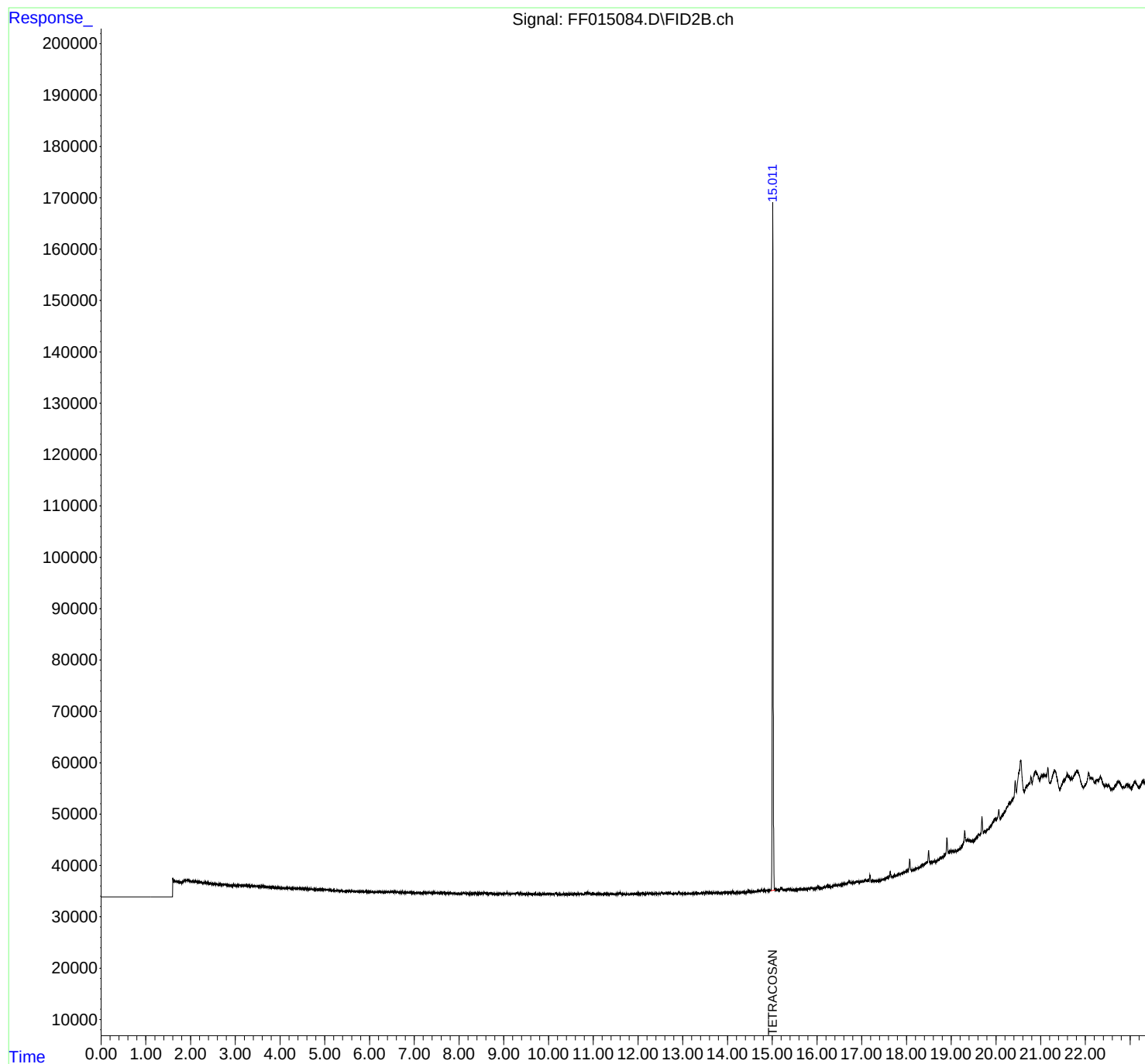
(m)=manual int.

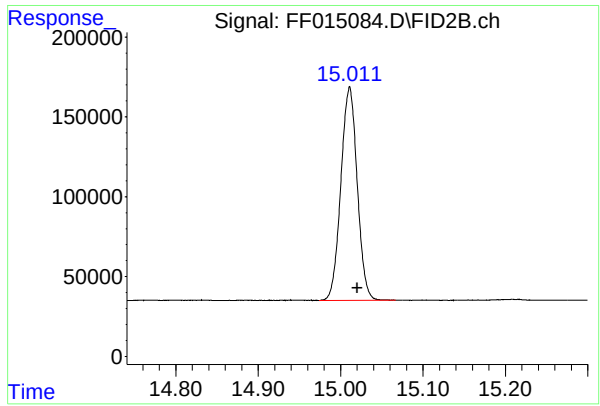
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015084.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 14:22
Operator : YP\AJ
Sample : PB165028BL
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB165028BL

Integration File: autoint1.e
Quant Time: Nov 19 00:22:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 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.: 15.011 min
Delta R.T.: -0.009 min
Response: 1837690
Conc: 16.67 ug/ml

Instrument :
FID_F
ClientSampleId :
PB165028BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015084.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 14:22
Sample : PB165028BL
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.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	14.974	15.067	BB	133258	1837690	100.00%	100.000%
Sum of corrected areas:						1837690		

FF111324.M Tue Nov 19 01:19:35 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/18/24
Project:	North Point	Date Received:	11/18/24
Client Sample ID:	PIBLK-FF015077.D	SDG No.:	P4839
Lab Sample ID:	I.BLK-FF015077.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF015077.D	1		11/18/24	FF111824

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	18.3		29 - 130	91%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015077.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 10:28
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: Nov 19 00:21:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 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	2013135	18.264 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

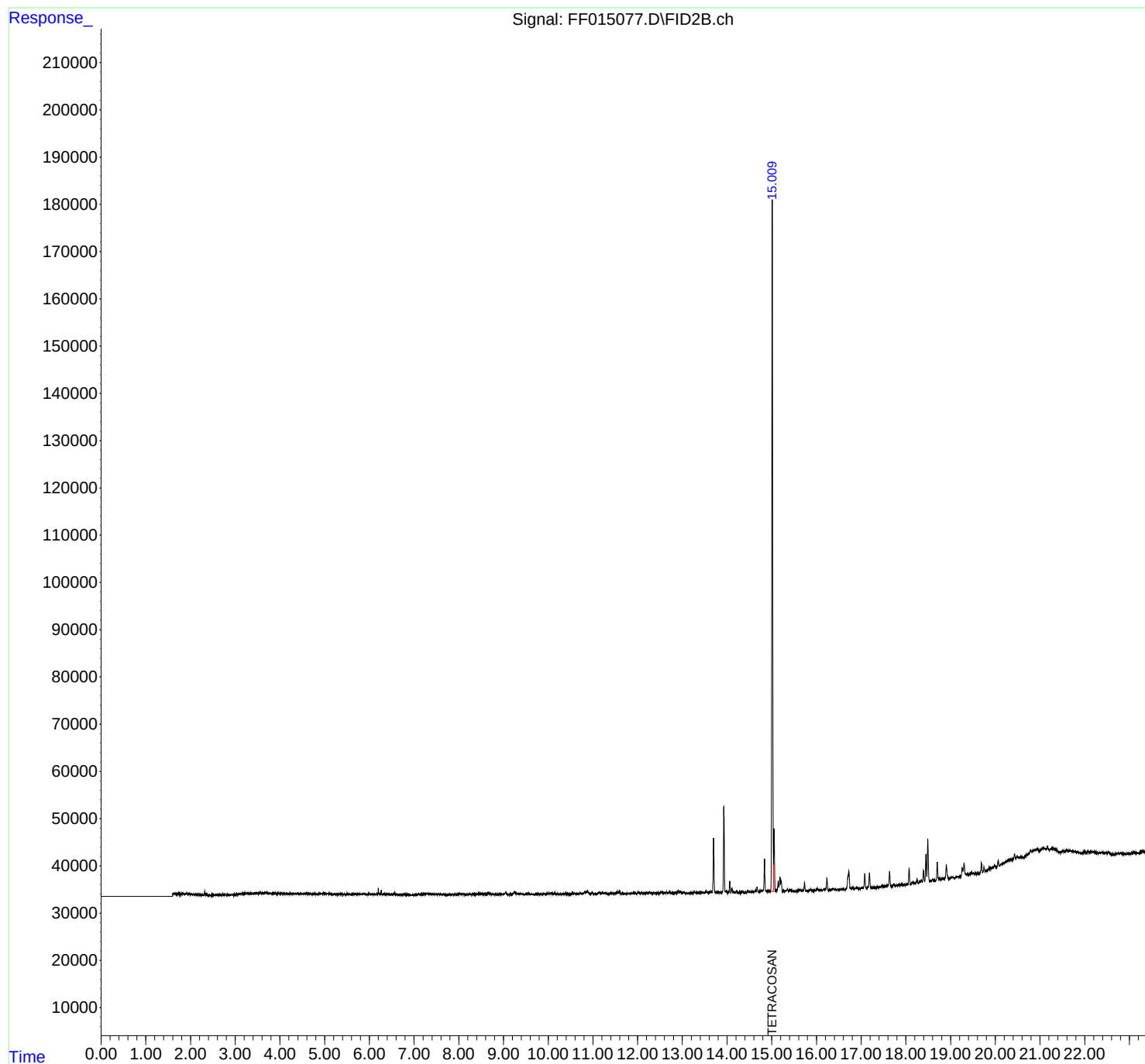
(m)=manual int.

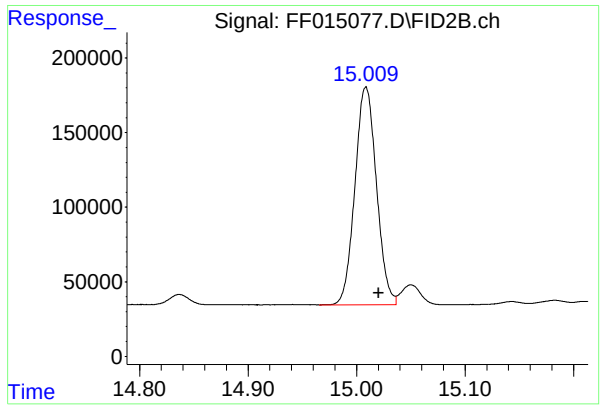
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015077.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 10:28
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 19 00:21:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 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 min
Response: 2013135
Conc: 18.26 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015077.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 10:28
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.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	14.965	15.036	BV	146153	2013135	100.00%	100.000%
Sum of corrected areas:						2013135		

FF111324.M Tue Nov 19 01:18:18 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/18/24
Project:	North Point	Date Received:	11/18/24
Client Sample ID:	PIBLK-FF015082.D	SDG No.:	P4839
Lab Sample ID:	I.BLK-FF015082.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF015082.D	1		11/18/24	FF111824

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	19.3		29 - 130	96%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015082.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 12:57
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: Nov 19 00:22:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 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	2125834	19.286 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

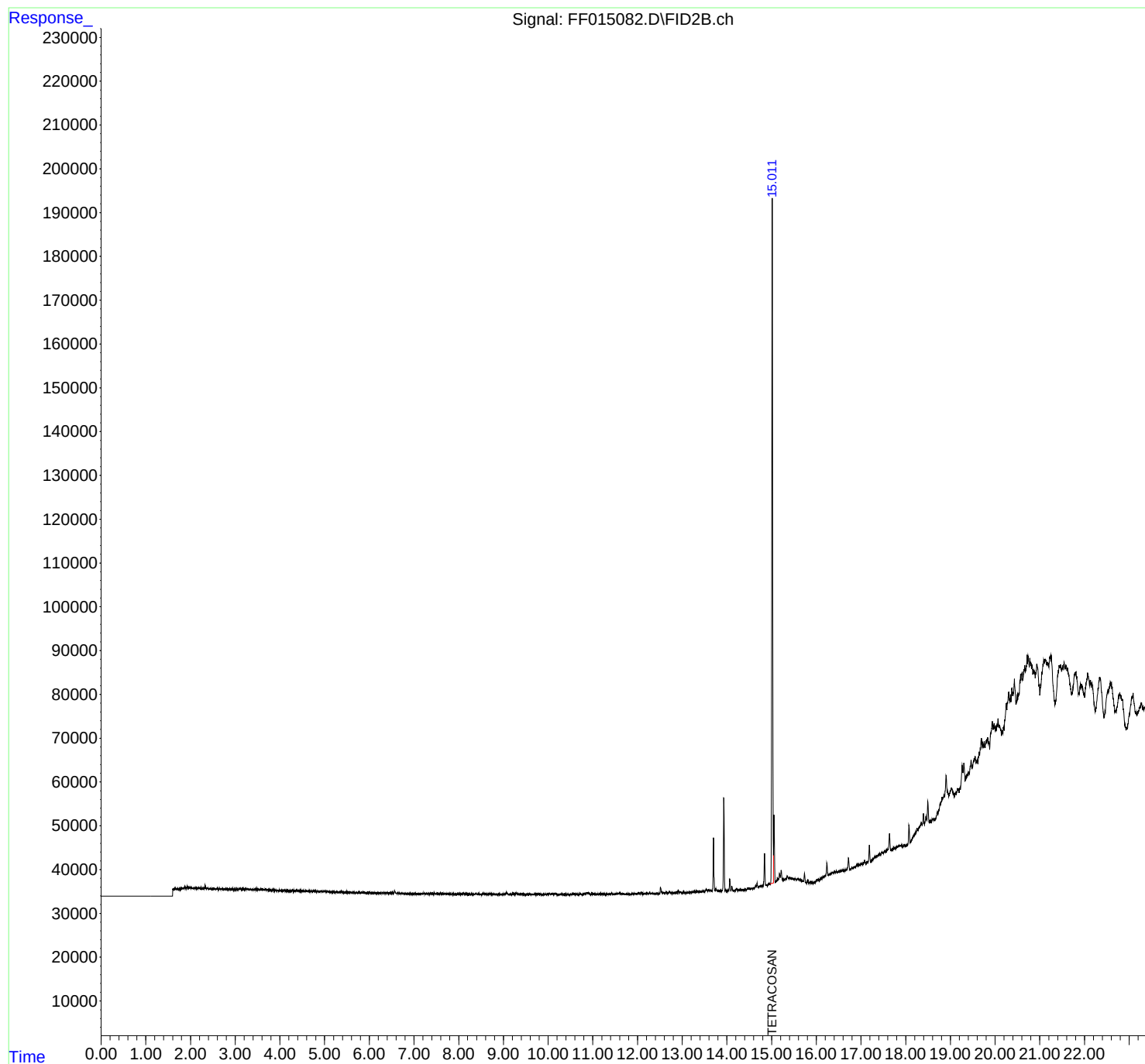
(m)=manual int.

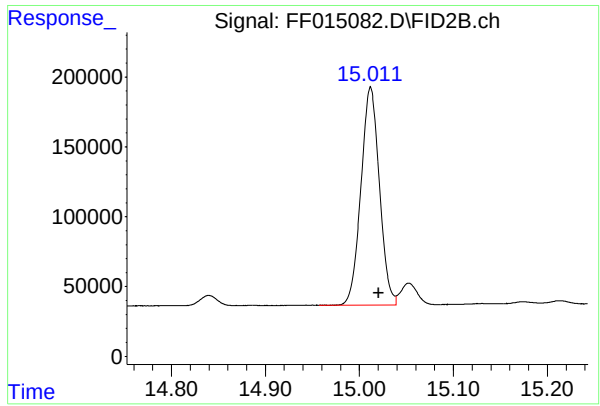
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015082.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 12:57
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 19 00:22:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 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.: -0.008 min
Response: 2125834
Conc: 19.29 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015082.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 12:57
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.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	14.957	15.039	BV	156043	2125834	100.00%	100.000%
Sum of corrected areas:						2125834		

FF111324.M Tue Nov 19 01:19:08 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/18/24
Project:	North Point	Date Received:	11/18/24
Client Sample ID:	PIBLK-FF015089.D	SDG No.:	P4839
Lab Sample ID:	I.BLK-FF015089.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF015089.D	1		11/18/24	FF111824

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	17.8		29 - 130	89%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015089.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:43
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: Nov 19 00:23:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 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	1961046	17.791 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

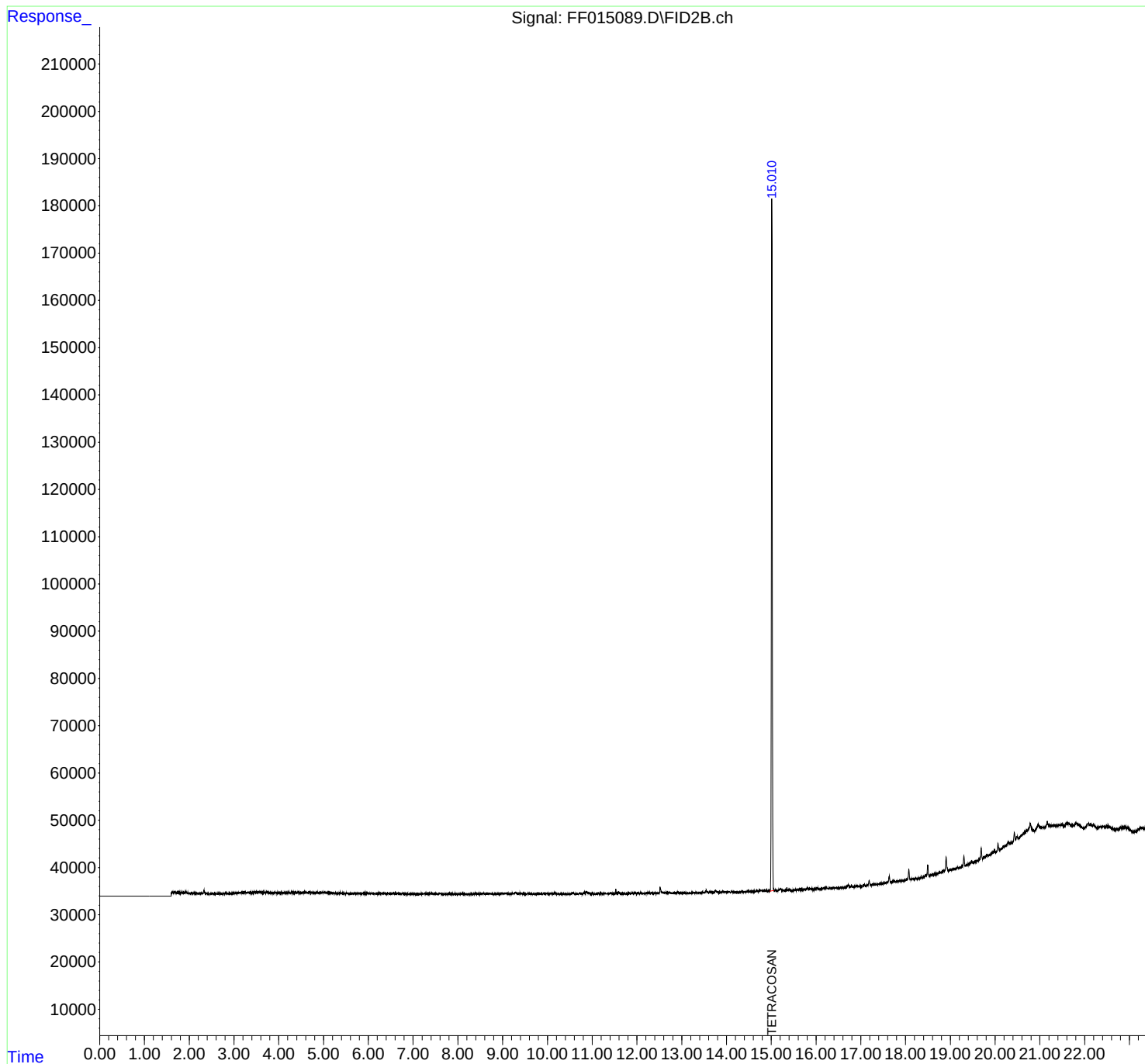
(m)=manual int.

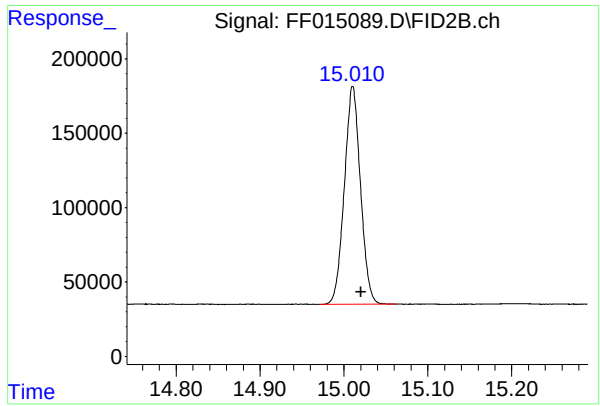
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015089.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:43
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 19 00:23:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 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.: 15.011 min
Delta R.T.: -0.010 min
Response: 1961046
Conc: 17.79 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015089.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:43
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.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	14.970	15.062	BB	146545	1961046	100.00%	100.000%
Sum of corrected areas:						1961046		

FF111324.M Tue Nov 19 01:20:11 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/15/24
Project:	North Point	Date Received:	11/15/24
Client Sample ID:	PIBLK-FG014800.D	SDG No.:	P4839
Lab Sample ID:	I.BLK-FG014800.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014800.D	1		11/15/24	FG111524

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	17.8		29 - 130	89%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014800.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 15:11
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 18 01:09:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.043	1994087	17.777 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

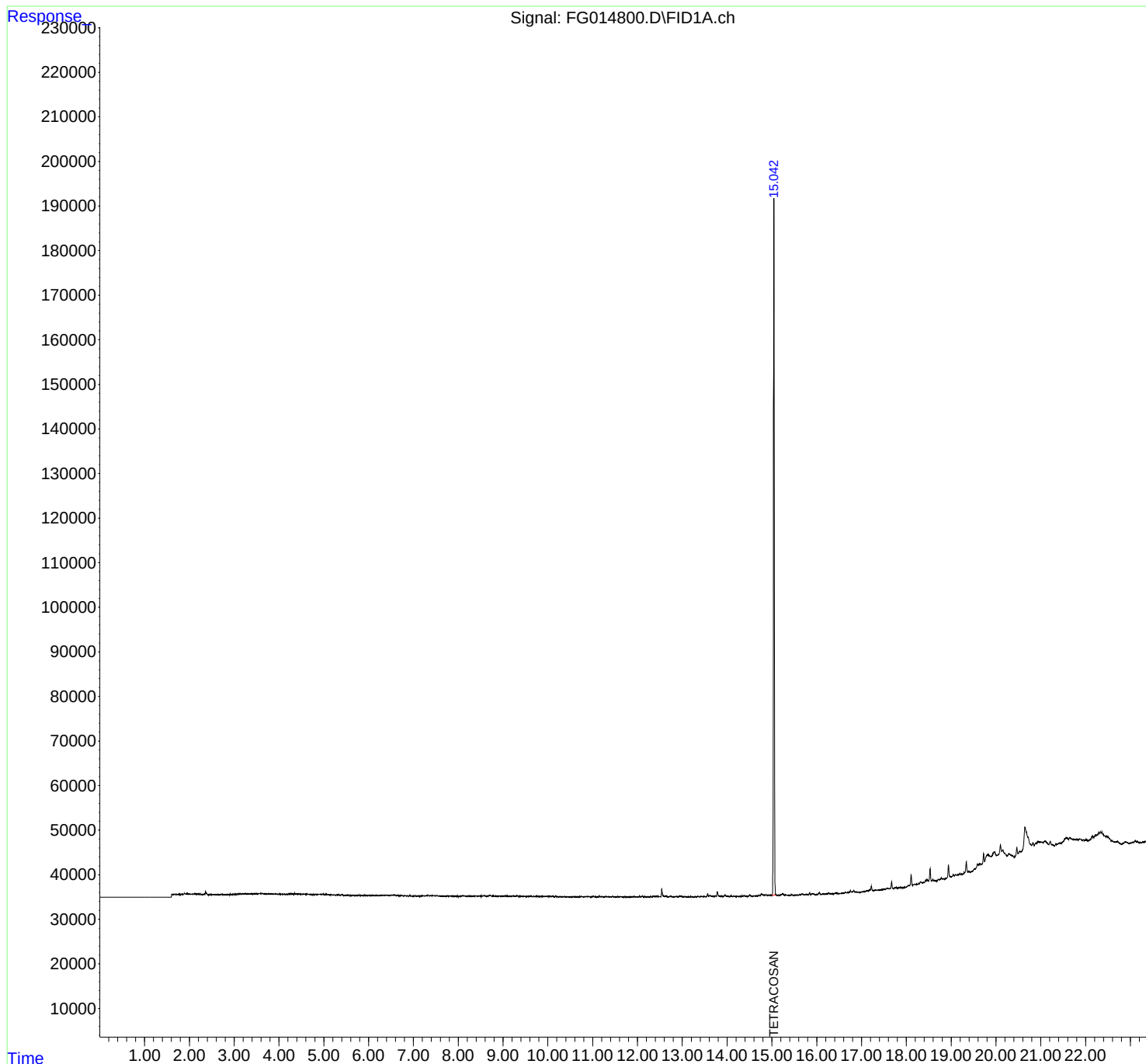
(m)=manual int.

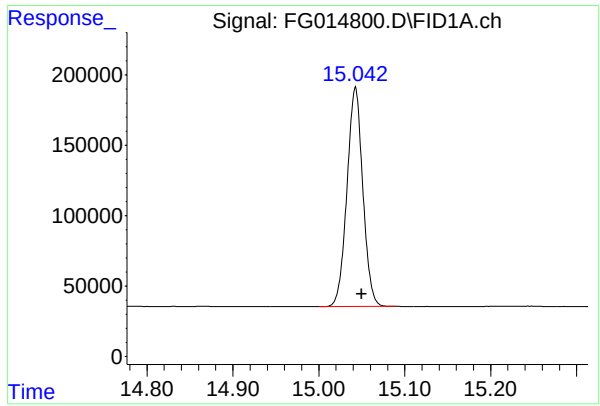
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014800.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 15:11
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 18 01:09:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.043 min

Delta R.T.: -0.007 min

Response: 1994087

Conc: 17.78 ug/ml

Instrument :

FID_G

ClientSampleId :

I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014800.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 15:11
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.043	15.000	15.090	BBA	156113	1994087	100.00%	100.000%
Sum of corrected areas:						1994087		

FG111324.M Mon Nov 18 01:58:44 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/15/24
Project:	North Point	Date Received:	11/15/24
Client Sample ID:	PIBLK-FG014814.D	SDG No.:	P4839
Lab Sample ID:	I.BLK-FG014814.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014814.D	1		11/15/24	FG111524

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	17.9		29 - 130	89%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014814.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 22:17
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 18 01:11:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.042	2002637	17.854 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

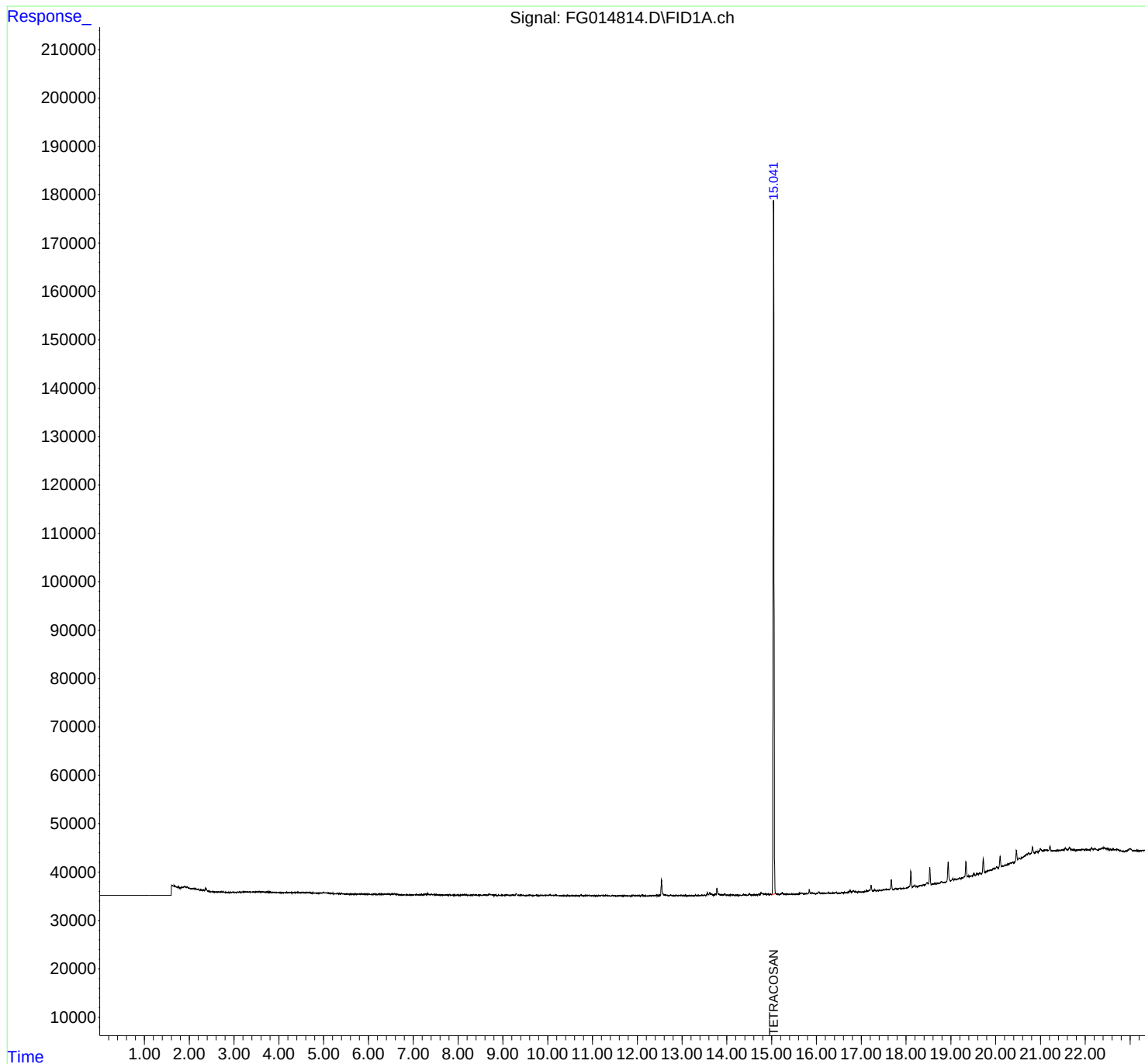
(m)=manual int.

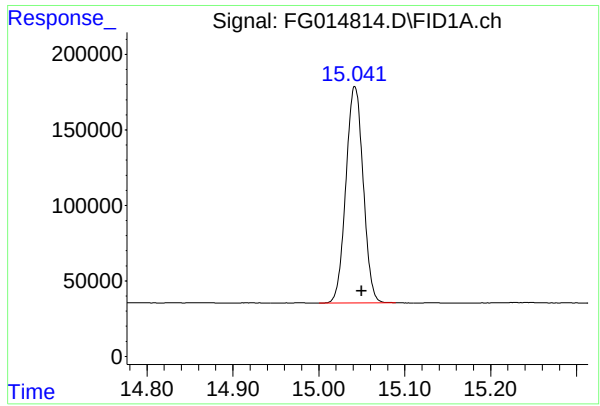
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014814.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 22:17
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 18 01:11:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.042 min

Delta R.T.: -0.008 min

Response: 2002637

Conc: 17.85 ug/ml

Instrument :

FID_G

ClientSampleId :

I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014814.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 22:17
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.042	15.000	15.090	BBA	143363	2002637	100.00%	100.000%
Sum of corrected areas:						2002637		

FG111324.M Mon Nov 18 02:00:51 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/16/24
Project:	North Point	Date Received:	11/16/24
Client Sample ID:	PIBLK-FG014817.D	SDG No.:	P4839
Lab Sample ID:	I.BLK-FG014817.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014817.D	1		11/16/24	FG111624

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	18.3		29 - 130	91%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014817.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 11:03
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 18 05:50:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.041	2046825	18.248 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

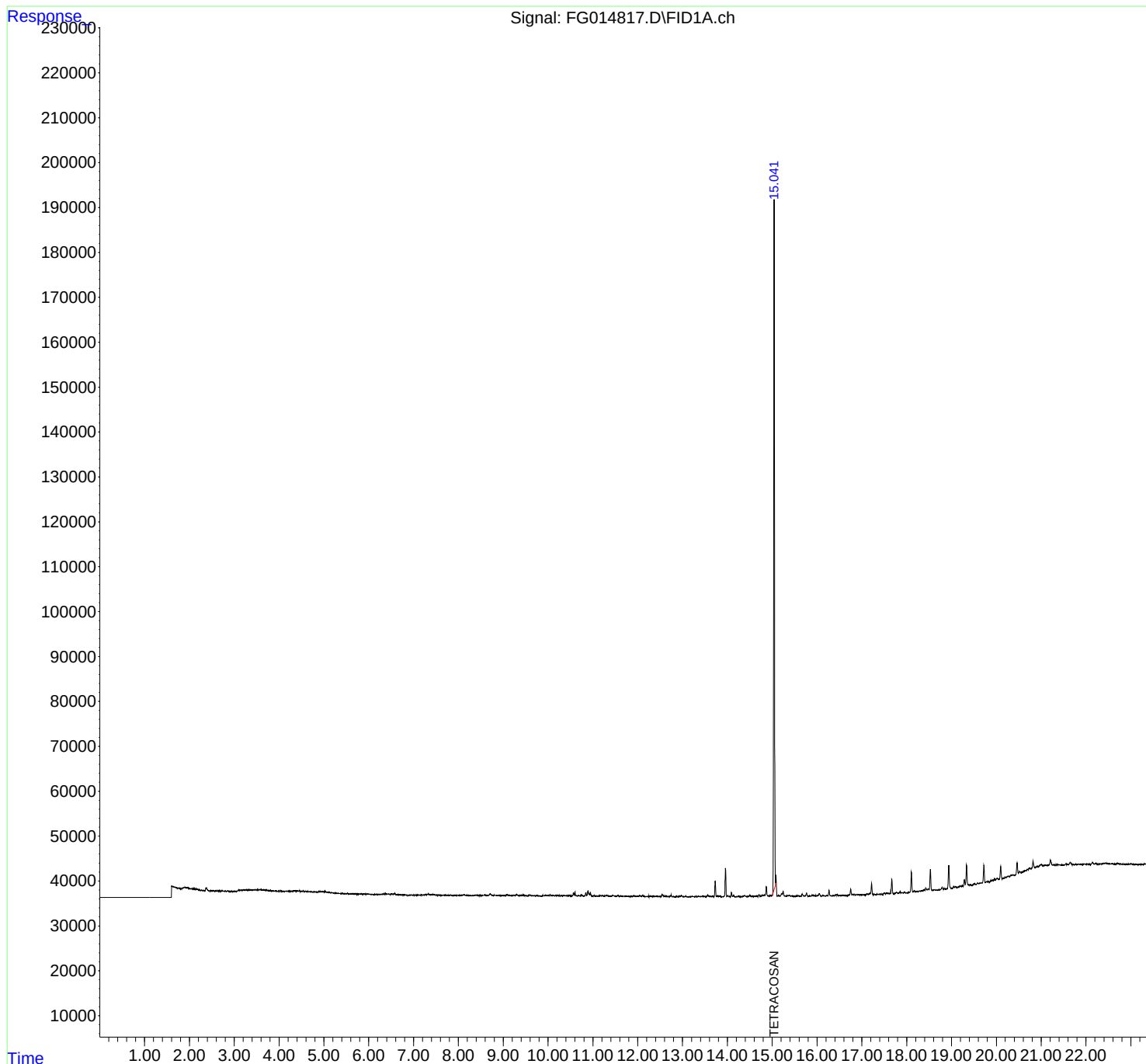
(m)=manual int.

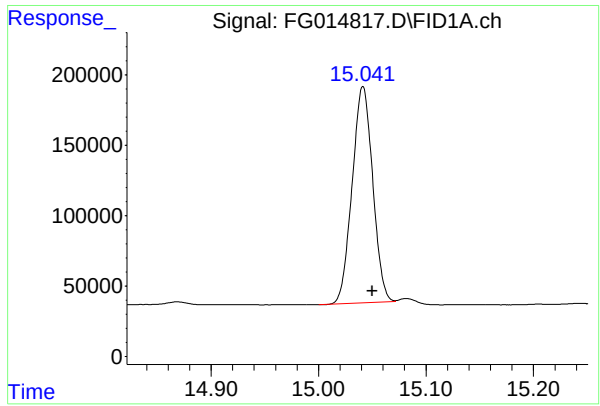
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014817.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 11:03
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 18 05:50:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.041 min
Delta R.T.: -0.008 min
Response: 2046825
Conc: 18.25 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014817.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 11:03
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.041	15.000	15.072	BV	153834	2046825	100.00%	100.000%
Sum of corrected areas:						2046825		

FG111324.M Mon Nov 18 06:34:36 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/16/24
Project:	North Point	Date Received:	11/16/24
Client Sample ID:	PIBLK-FG014832.D	SDG No.:	P4839
Lab Sample ID:	I.BLK-FG014832.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014832.D	1		11/16/24	FG111624

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	18.8		29 - 130	94%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014832.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 18:08
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
Quant Time: Nov 18 05:52:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.041	2105867	18.774 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014832.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 18:08
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

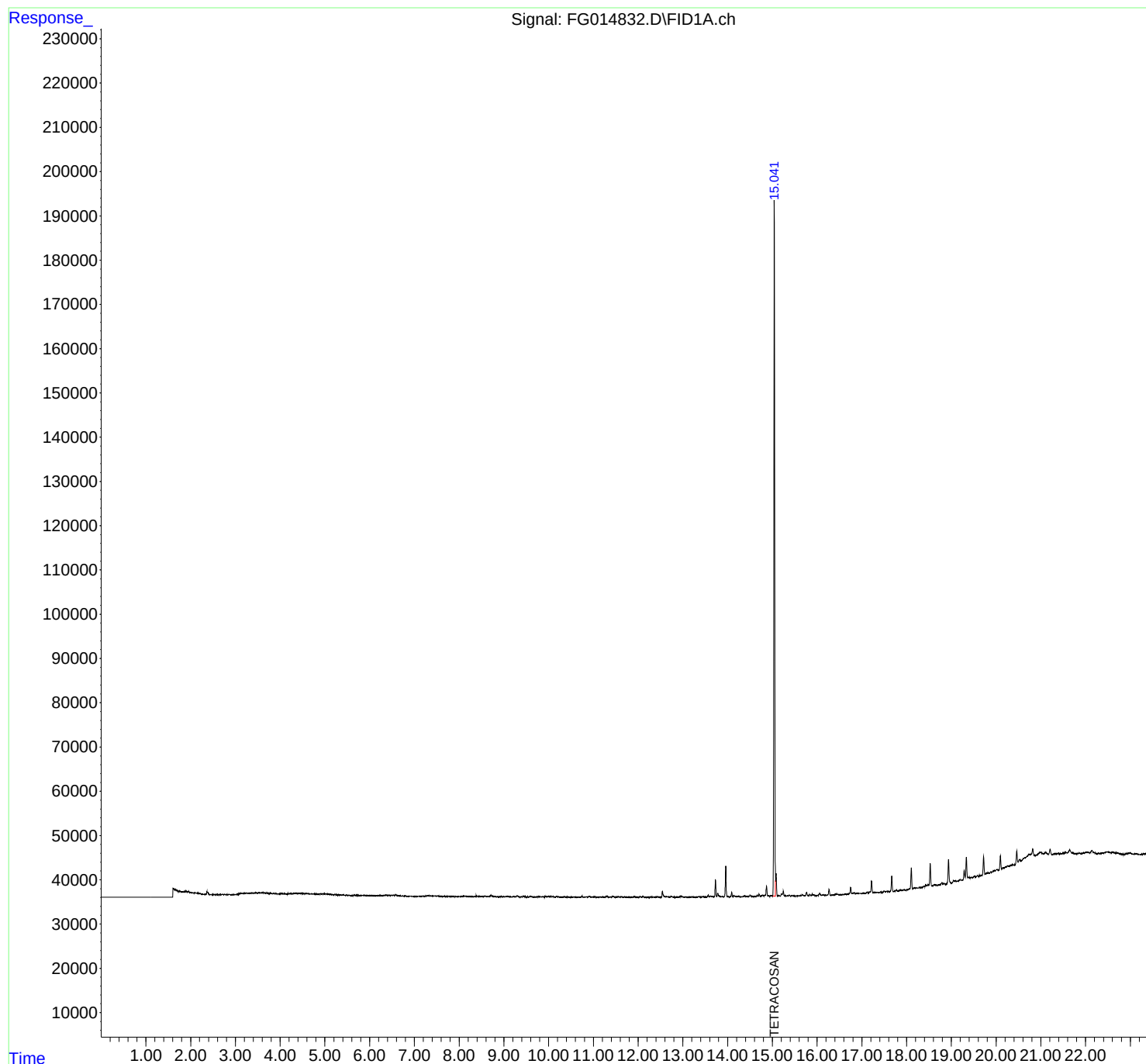
Instrument :
FID_G
ClientSampleId :
I.BLK

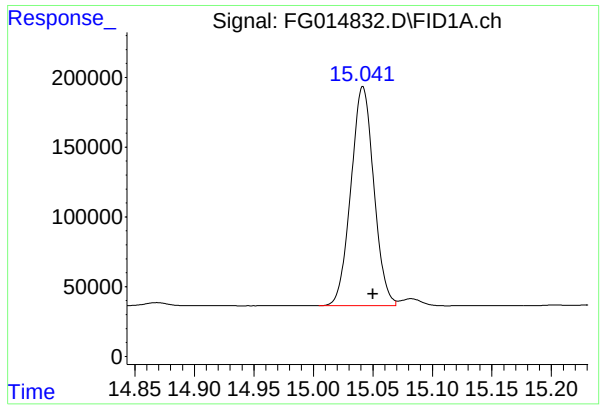
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
Quant Time: Nov 18 05:52:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.041 min
Delta R.T.: -0.009 min
Response: 2105867
Conc: 18.77 ug/ml

Instrument :

FID_G

ClientSampleId :

I.BLK

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/18/2024

Supervised By :Ankita Jodhani 11/18/2024

rteres

Instrument :
FID_G
LabSampleId :
I.BLK

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11162
Data File : FG014832.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 18:08
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.042	15.000	15.072	BV	155753	2053068	100.00%	100.000%
Sum of corrected areas:						2053068		

FG111324.M Mon Nov 18 06:35:54 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/16/24
Project:	North Point	Date Received:	11/16/24
Client Sample ID:	PIBLK-FG014836.D	SDG No.:	P4839
Lab Sample ID:	I.BLK-FG014836.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014836.D	1		11/16/24	FG111624

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	19.1		29 - 130	95%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014836.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 20:30
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
Quant Time: Nov 18 05:53:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.040	2137565	19.057 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014836.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 20:30
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

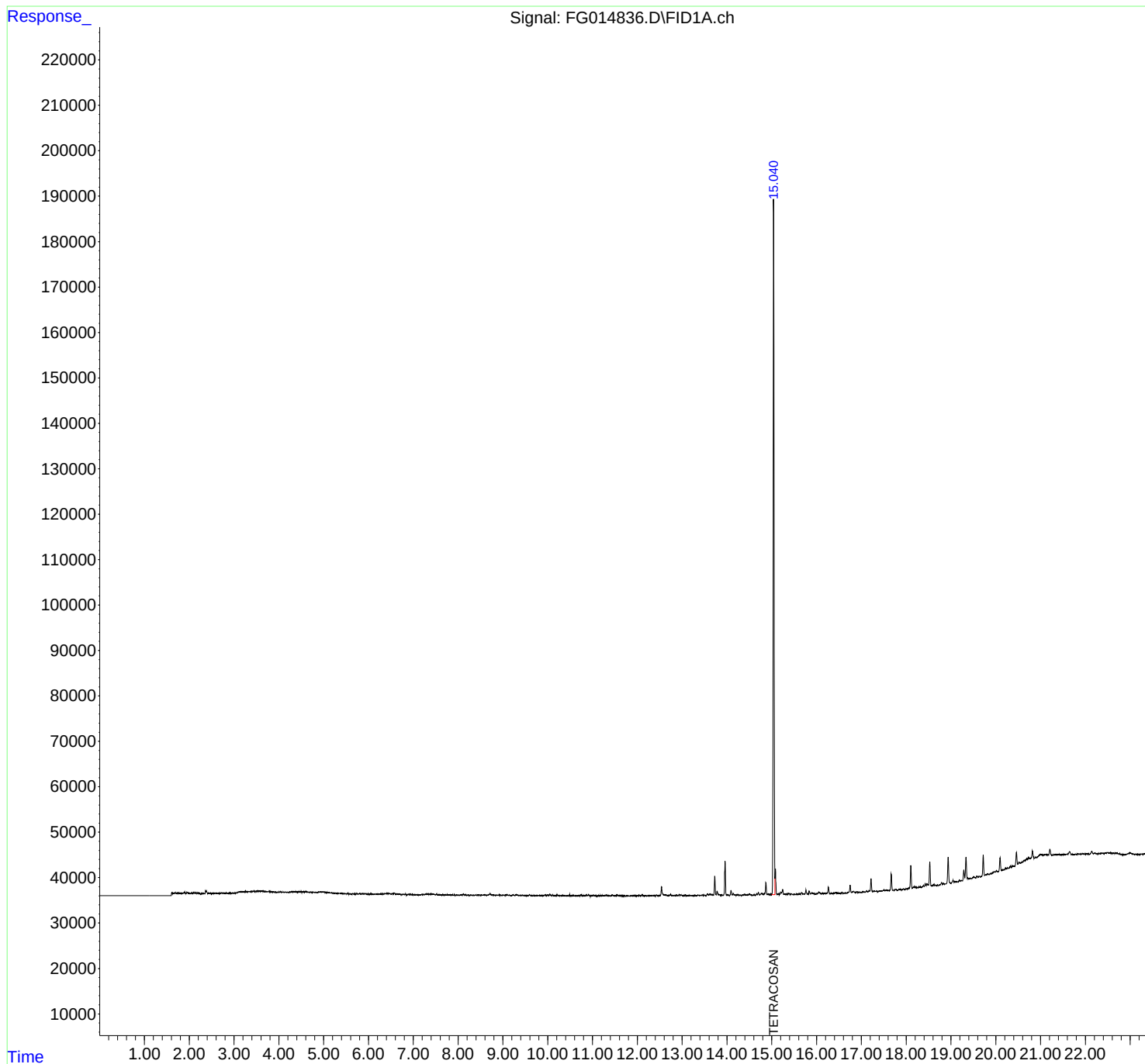
Instrument :
FID_G
ClientSampleId :
I.BLK

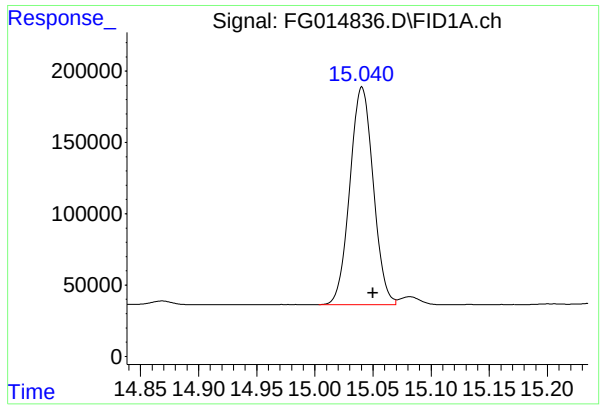
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
Quant Time: Nov 18 05:53:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.040 min
Delta R.T.: -0.010 min
Response: 2137565
Conc: 19.06 ug/ml

Instrument :

FID_G

ClientSampleId :

I.BLK

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/18/2024

Supervised By :Ankita Jodhani 11/18/2024

rteres

Instrument :
FID_G
LabSampleId :
I.BLK
Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11162
Data File : FG014836.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 20:30
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.040	15.001	15.071	BV	151323	2081552	100.00%	100.000%
Sum of corrected areas:						2081552		

FG111324.M Mon Nov 18 06:37:14 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/18/24
Project:	North Point	Date Received:	11/18/24
Client Sample ID:	PIBLK-FG014839.D	SDG No.:	P4839
Lab Sample ID:	I.BLK-FG014839.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014839.D	1		11/18/24	FG111824

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	19.7		29 - 130	98%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014839.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 08:47
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 19 01:29:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.040	2208449	19.688 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

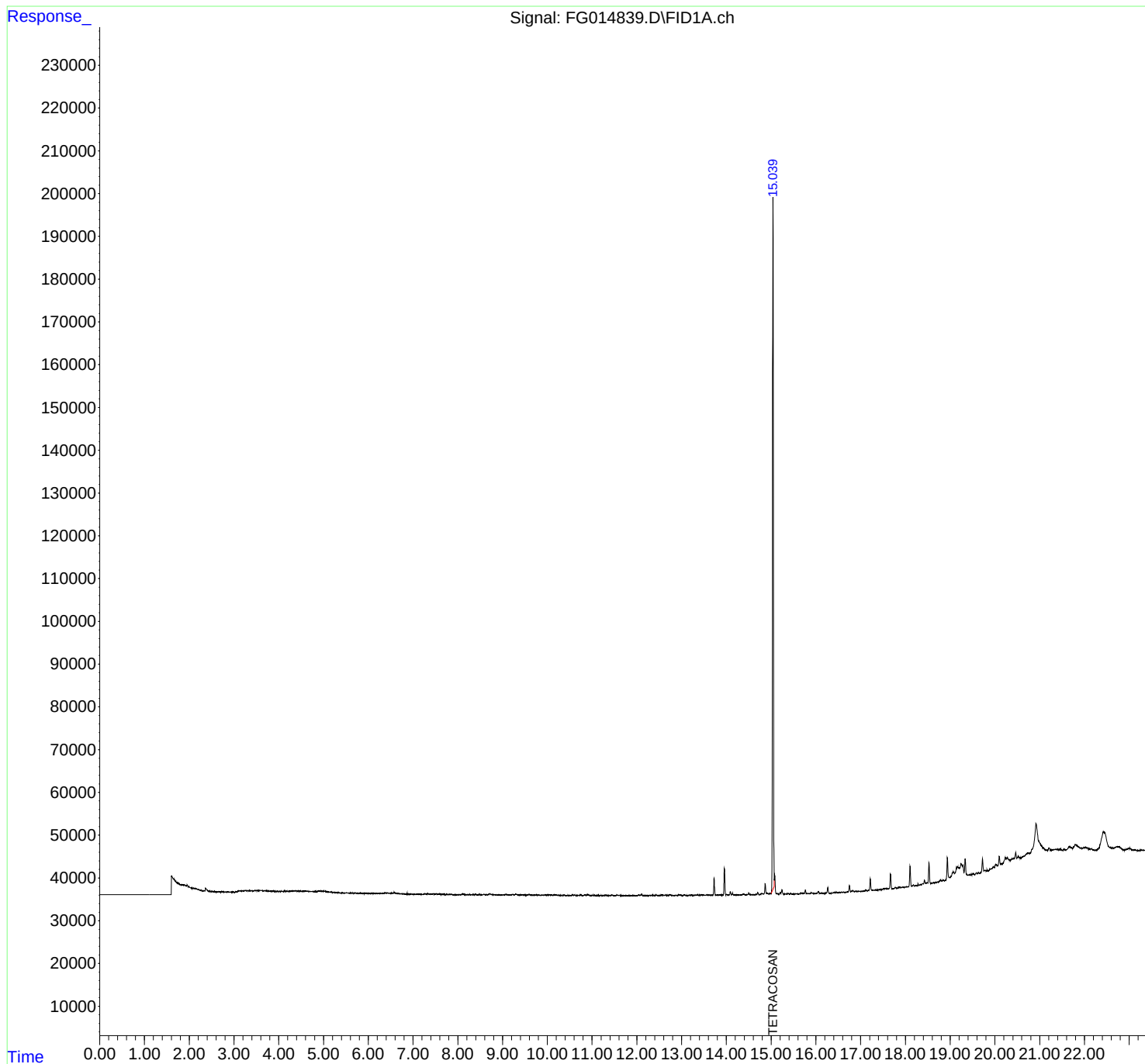
(m)=manual int.

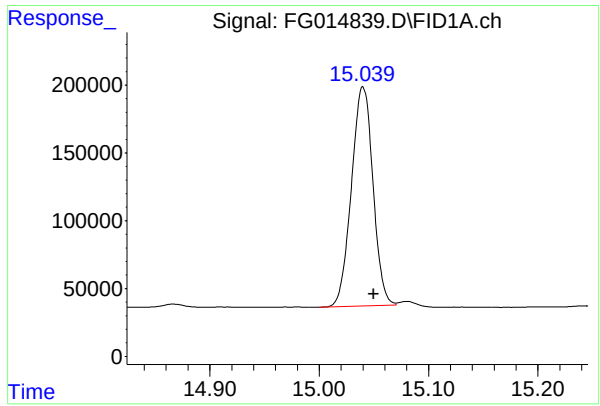
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014839.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 08:47
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 19 01:29:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.040 min

Delta R.T.: -0.010 min

Response: 2208449

Conc: 19.69 ug/ml

Instrument :

FID_G

ClientSampleId :

I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014839.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 08:47
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.040	15.000	15.070	BV	161460	2208449	100.00%	100.000%
Sum of corrected areas:						2208449		

FG111324.M Tue Nov 19 02:21:16 2024

Report of Analysis

Client:	ENTACT		Date Collected:	11/18/24	
Project:	North Point		Date Received:	11/18/24	
Client Sample ID:	PIBLK-FG014847.D		SDG No.:	P4839	
Lab Sample ID:	I.BLK-FG014847.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
FG014847.D	1		11/18/24	FG111824

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	19.8		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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014847.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 12:57
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: autoint1.e
Quant Time: Nov 19 01:30:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.041	2217625	19.770 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014847.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 12:57
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

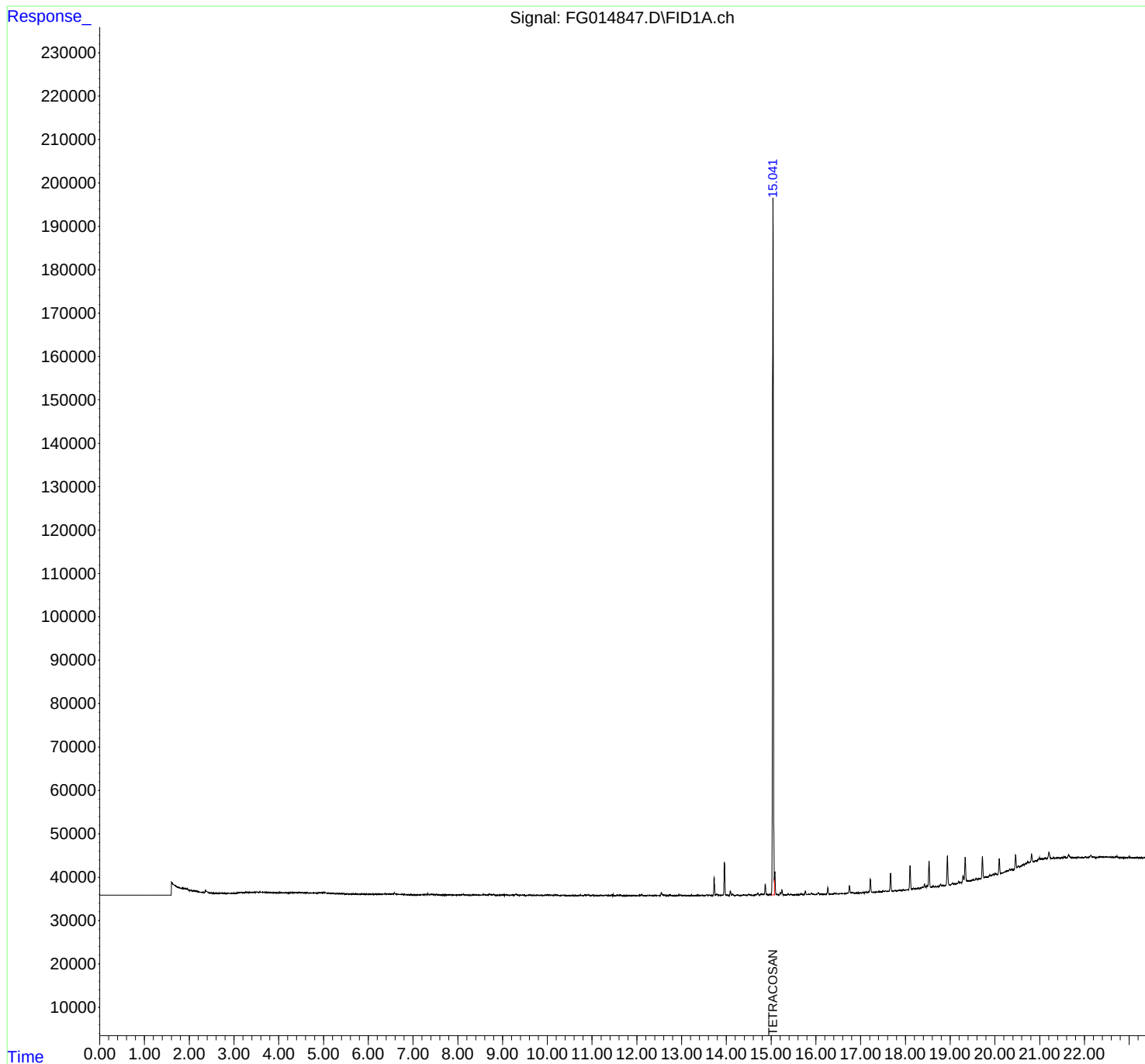
Instrument :
FID_G
ClientSampleId :
I.BLK

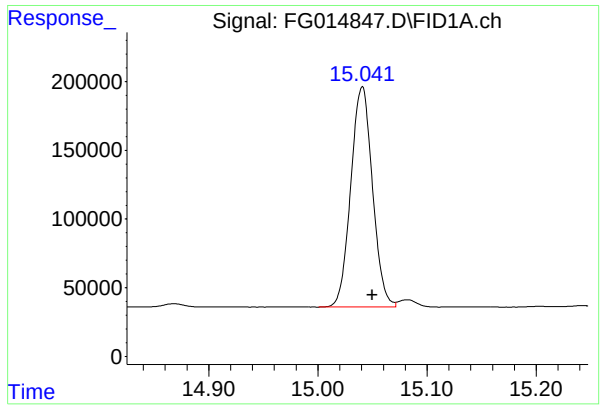
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: autoint1.e
Quant Time: Nov 19 01:30:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.041 min
Delta R.T.: -0.009 min
Response: 2217625
Conc: 19.77 ug/ml

Instrument :

FID_G

ClientSampleId :

I.BLK

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :Ankita Jodhani 11/19/2024

rteres

Instrument :
FID_G
LabSampleId :
I.BLK
Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11182
Data File : FG014847.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 12:57
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.041	15.000	15.071	BV	159072	2162147	100.00%	100.000%
Sum of corrected areas:						2162147		

FG111324.M Tue Nov 19 02:22:34 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/18/24
Project:	North Point	Date Received:	11/18/24
Client Sample ID:	PIBLK-FG014858.D	SDG No.:	P4839
Lab Sample ID:	I.BLK-FG014858.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :		Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014858.D	1		11/18/24	FG111824

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	17.6		29 - 130	88%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014858.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 18:08
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 19 01:32:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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...	15.042	1968996	17.554 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

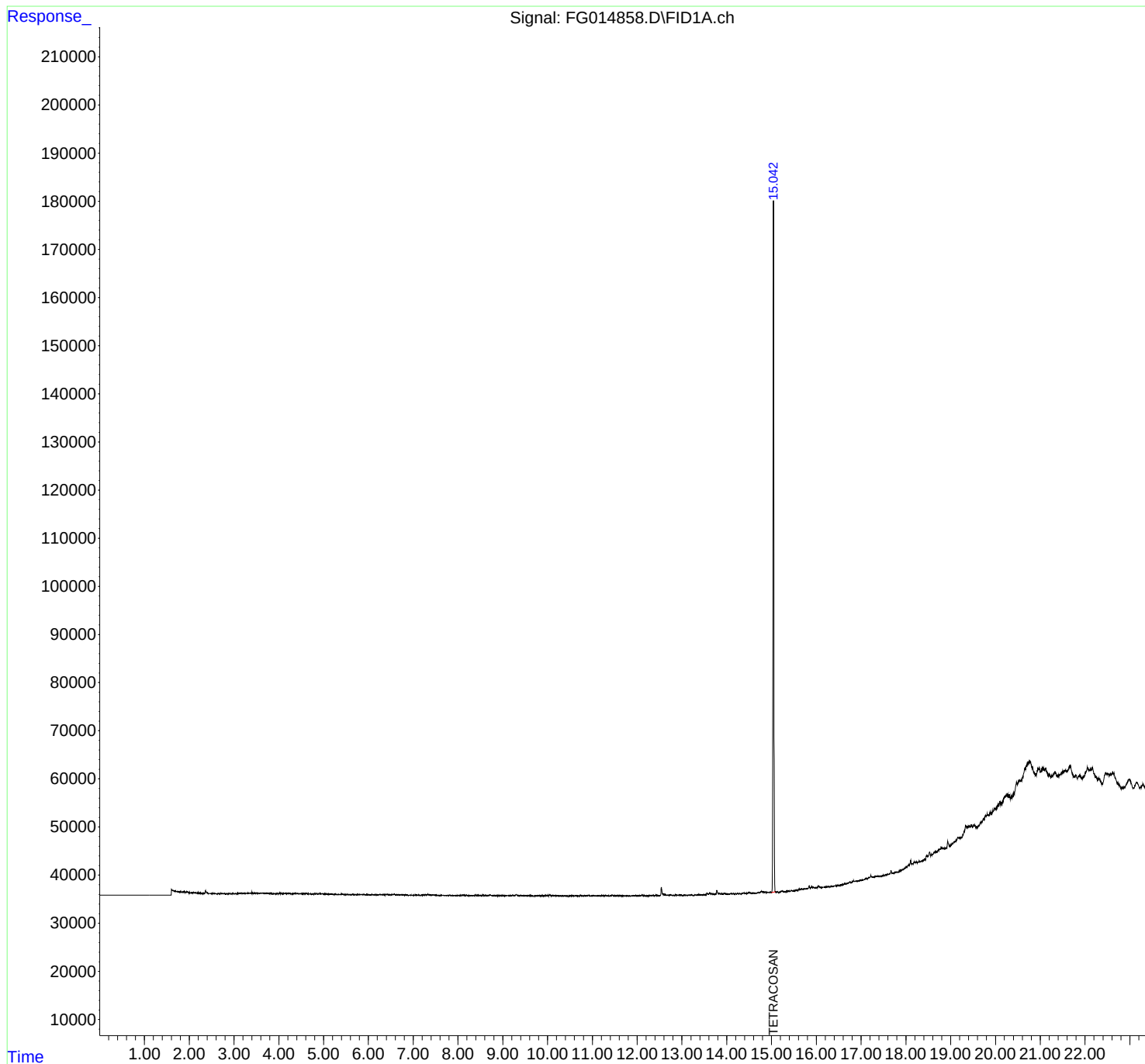
(m)=manual int.

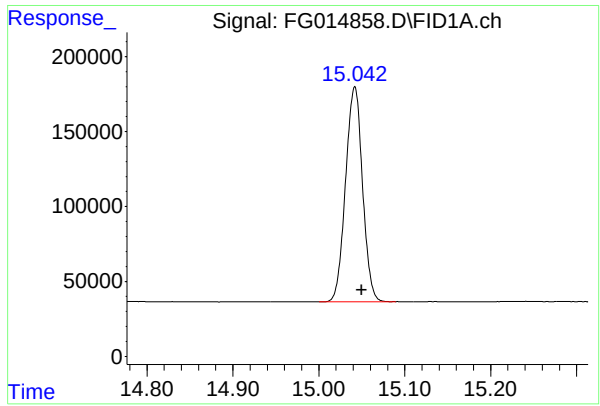
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014858.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 18:08
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 19 01:32:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 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.: 15.042 min

Delta R.T.: -0.008 min

Response: 1968996

Conc: 17.55 ug/ml

Instrument :

FID_G

ClientSampleId :

I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111824\
Data File : FG014858.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 18:08
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.042	15.000	15.090	BBA	143560	1968996	100.00%	100.000%
Sum of corrected areas:						1968996		

FG111324.M Tue Nov 19 02:23:28 2024

Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB164995BS		SDG No.:	P4839	
Lab Sample ID:	PB164995BS		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
FG014804.D	1	11/14/24 13:15	11/15/24 17:33	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	8410		185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	17.7		37 - 130	89%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
 Data File : FG014804.D
 Signal(s) : FID1A.ch
 Acq On : 15 Nov 2024 17:33
 Operator : YP\AJ
 Sample : PB164995BS
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 PB164995BS

Integration File: autoint1.e
 Quant Time: Nov 18 01:10:04 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Quant Title :
 QLast Update : Wed Nov 13 13:49:18 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...	15.042	1989484	17.736 ug/ml
Target Compounds			
2) N-DECANE	4.569	3106933	24.604 ug/ml
3) N-DODECANE	6.740	3240775	24.952 ug/ml
4) N-TETRADECANE	8.572	3148960	24.987 ug/ml
5) N-HEXADECANE	10.183	3210386	25.172 ug/ml
6) N-OCTADECANE	11.630	3321020	25.362 ug/ml
7) N-EICOSANE	12.942	3246409	25.496 ug/ml
8) N-DOCOSANE	14.142	3182181	25.476 ug/ml
10) N-TETRACOSANE	15.247	3141365	25.430 ug/ml
11) N-HEXACOSANE	16.270	3055371	25.397 ug/ml
12) N-OCTACOSANE	17.219	2992067	25.450 ug/ml

(f)=RT Delta > 1/2 Window

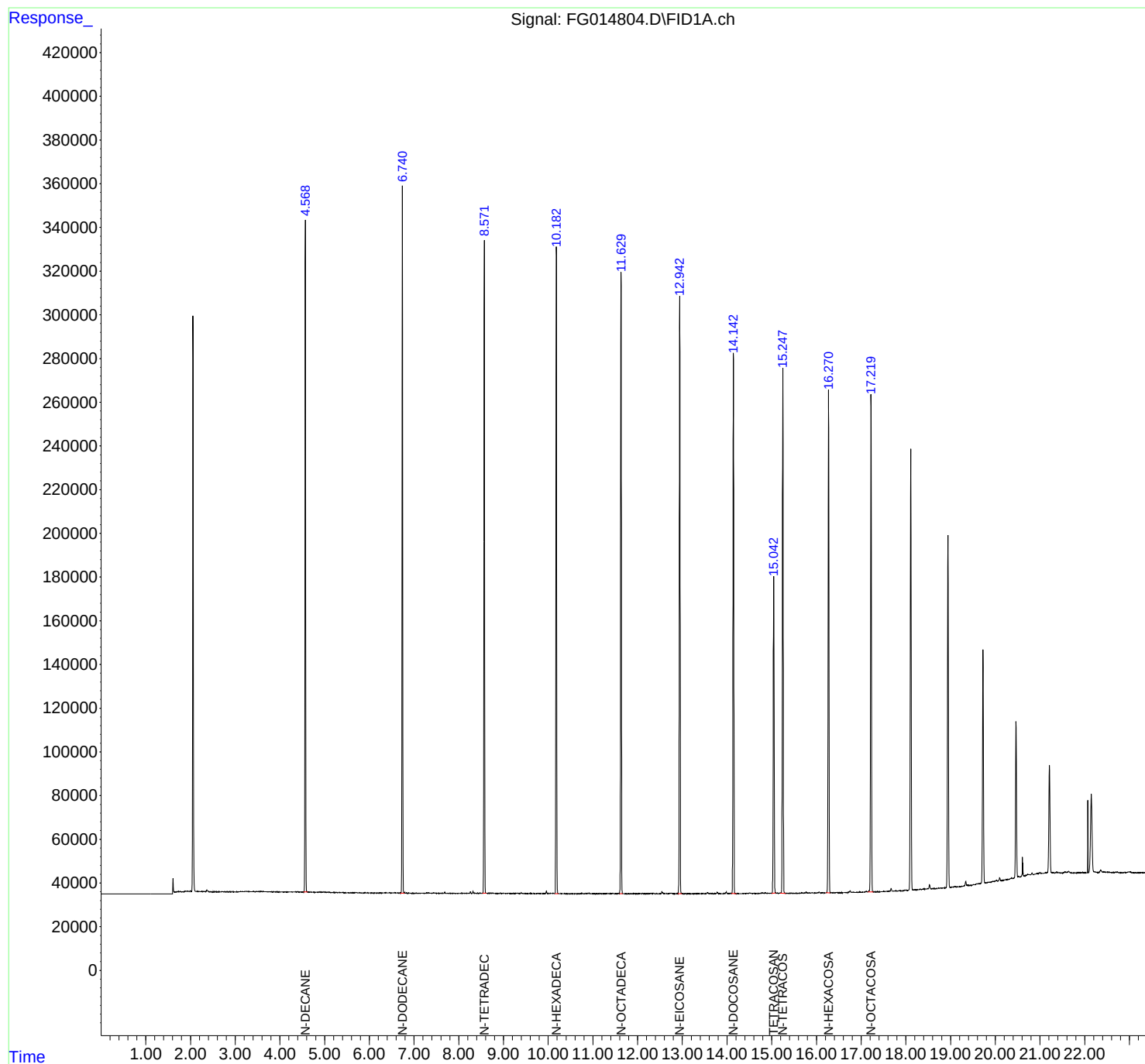
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014804.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 17:33
Operator : YP\AJ
Sample : PB164995BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164995BS

Integration File: autoint1.e
Quant Time: Nov 18 01:10:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014804.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 17:33
Sample : PB164995BS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.569	4.525	4.619	BB	307080	3106933	93.55%	9.237%
2	6.740	6.697	6.785	BB	323805	3240775	97.58%	9.635%
3	8.572	8.530	8.615	BB	298544	3148960	94.82%	9.362%
4	10.183	10.147	10.232	BB	295761	3210386	96.67%	9.545%
5	11.630	11.593	11.665	BB	284294	3321020	100.00%	9.874%
6	12.942	12.895	12.993	BB	273153	3246409	97.75%	9.652%
7	14.142	14.094	14.198	BB	247162	3182181	95.82%	9.461%
8	15.042	15.000	15.090	BBA	144851	1989484	59.91%	5.915%
9	15.247	15.188	15.302	BB	240233	3141365	94.59%	9.340%
10	16.270	16.216	16.308	BB	229797	3055371	92.00%	9.084%
11	17.219	17.148	17.273	BB	227599	2992067	90.09%	8.896%
Sum of corrected areas:						33634952		

FG111324.M Mon Nov 18 02:00:32 2024

Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB165028BS		SDG No.:	P4839	
Lab Sample ID:	PB165028BS		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	100	Decanted:
Sample Wt/Vol:	30.02	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	Diesel Range Organics	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF015085.D	1	11/16/24 08:20	11/18/24 14:50	PB165028

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	8340		185	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	17.9		37 - 130	90%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
 Data File : FF015085.D
 Signal(s) : FID2B.ch
 Acq On : 18 Nov 2024 14:50
 Operator : YP\AJ
 Sample : PB165028BS
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 PB165028BS

Integration File: autoint1.e
 Quant Time: Nov 19 00:22:37 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
 Quant Title :
 QLast Update : Wed Nov 13 12:50:15 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	1975806	17.925 ug/ml
Target Compounds			
2) N-DECANE	4.569	3137321	23.817 ug/ml
3) N-DODECANE	6.731	3250159	24.213 ug/ml
4) N-TETRADECANE	8.555	3155889	24.444 ug/ml
5) N-HEXADECANE	10.161	3211722	24.769 ug/ml
6) N-OCTADECANE	11.604	3314968	25.135 ug/ml
7) N-EICOSANE	12.914	3235468	25.450 ug/ml
8) N-DOCOSANE	14.112	3167279	25.618 ug/ml
10) N-TETRACOSANE	15.215	3119073	25.674 ug/ml
11) N-HEXACOSANE	16.236	3038787	25.763 ug/ml
12) N-OCTACOSANE	17.185	2969342	25.739 ug/ml

(f)=RT Delta > 1/2 Window

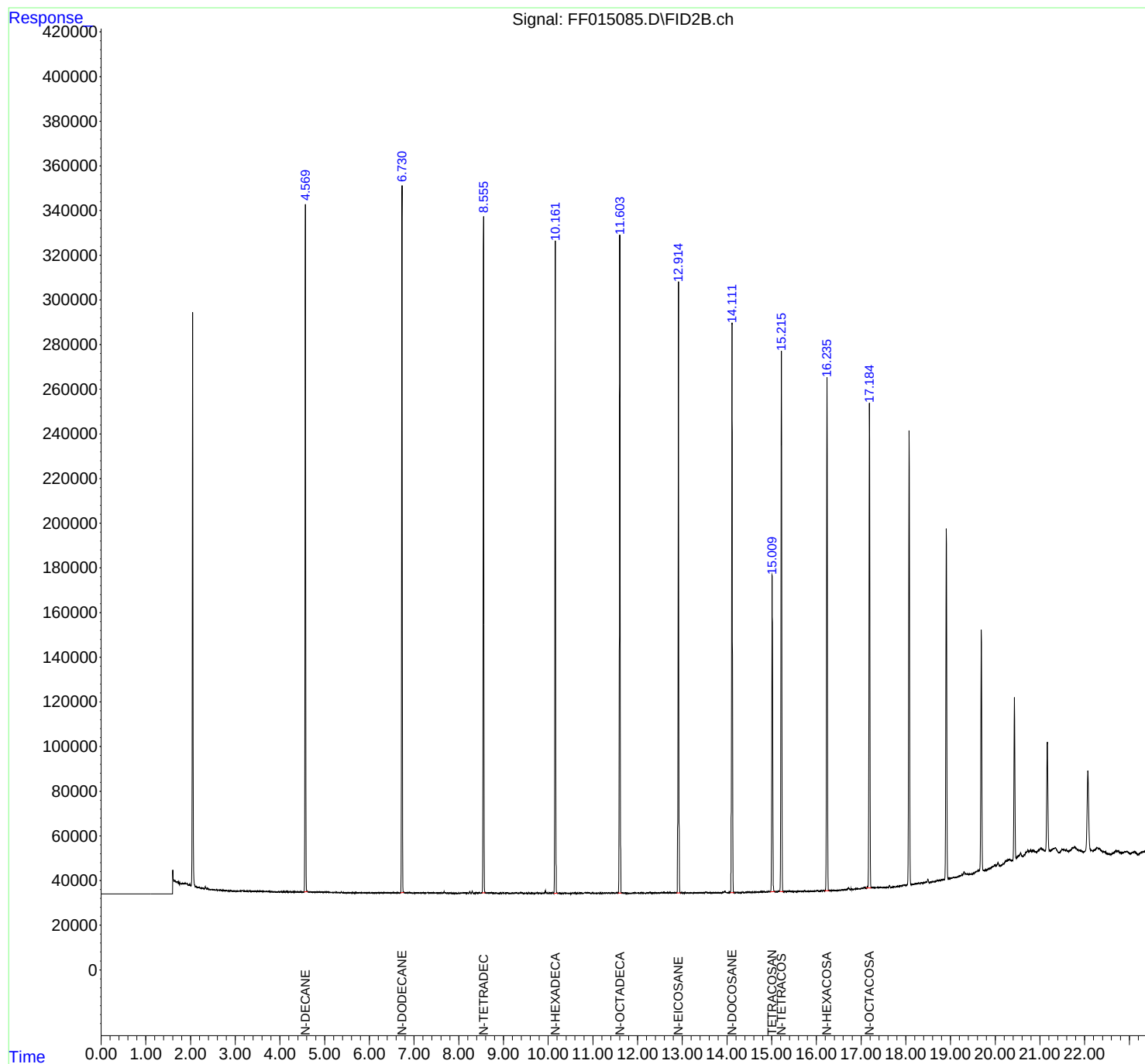
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015085.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 14:50
Operator : YP\AJ
Sample : PB165028BS
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB165028BS

Integration File: autoint1.e
Quant Time: Nov 19 00:22:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015085.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 14:50
Sample : PB165028BS
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.569	4.534	4.619	BB	307154	3137321	94.64%	9.344%
2	6.731	6.695	6.765	BB	316838	3250159	98.04%	9.680%
3	8.555	8.519	8.597	BB	302439	3155889	95.20%	9.399%
4	10.161	10.125	10.207	BB	291623	3211722	96.89%	9.566%
5	11.604	11.564	11.642	BB	294555	3314968	100.00%	9.873%
6	12.914	12.875	12.959	BB	273503	3235468	97.60%	9.636%
7	14.112	14.074	14.160	BB	254366	3167279	95.54%	9.433%
8	15.010	14.969	15.067	BB	141704	1975806	59.60%	5.885%
9	15.215	15.172	15.269	BB	242077	3119073	94.09%	9.290%
10	16.236	16.179	16.285	BB	229490	3038787	91.67%	9.051%
11	17.185	17.109	17.230	BB	216474	2969342	89.57%	8.844%
Sum of corrected areas:						33575812		

FF111324.M Tue Nov 19 01:19:50 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/13/24
Project:	North Point	Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-18MS	SDG No.:	P4839
Lab Sample ID:	P4839-10MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	79
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014821.D	1	11/14/24 13:15	11/16/24 12:56	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	13000		234	2110	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.2		37 - 130	51%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
 Data File : FG014821.D
 Signal(s) : FID1A.ch
 Acq On : 16 Nov 2024 12:56
 Operator : YP\AJ
 Sample : P4839-10MS
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 EX-9-TPH-18MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/18/2024
 Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
 Quant Time: Nov 18 05:51:21 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Quant Title :
 QLast Update : Wed Nov 13 13:49:18 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...	15.039	1142773	10.188 ug/mlm
Target Compounds			
2) N-DECANE	4.568	2695246	21.344 ug/ml
3) N-DODECANE	6.739	2904245	22.361 ug/ml
4) N-TETRADECANE	8.571	2934238	23.283 ug/ml
5) N-HEXADECANE	10.182	3037484	23.816 ug/ml
6) N-OCTADECANE	11.628	3140093	23.980 ug/ml
7) N-EICOSANE	12.940	3041443	23.886 ug/ml
8) N-DOCOSANE	14.140	2979364	23.852 ug/ml
10) N-TETRACOSANE	15.245	3013790	24.397 ug/ml
11) N-HEXACOSANE	16.267	2962290	24.623 ug/ml
12) N-OCTACOSANE	17.219	2890192	24.583 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014821.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 12:56
Operator : YP\AJ
Sample : P4839-10MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

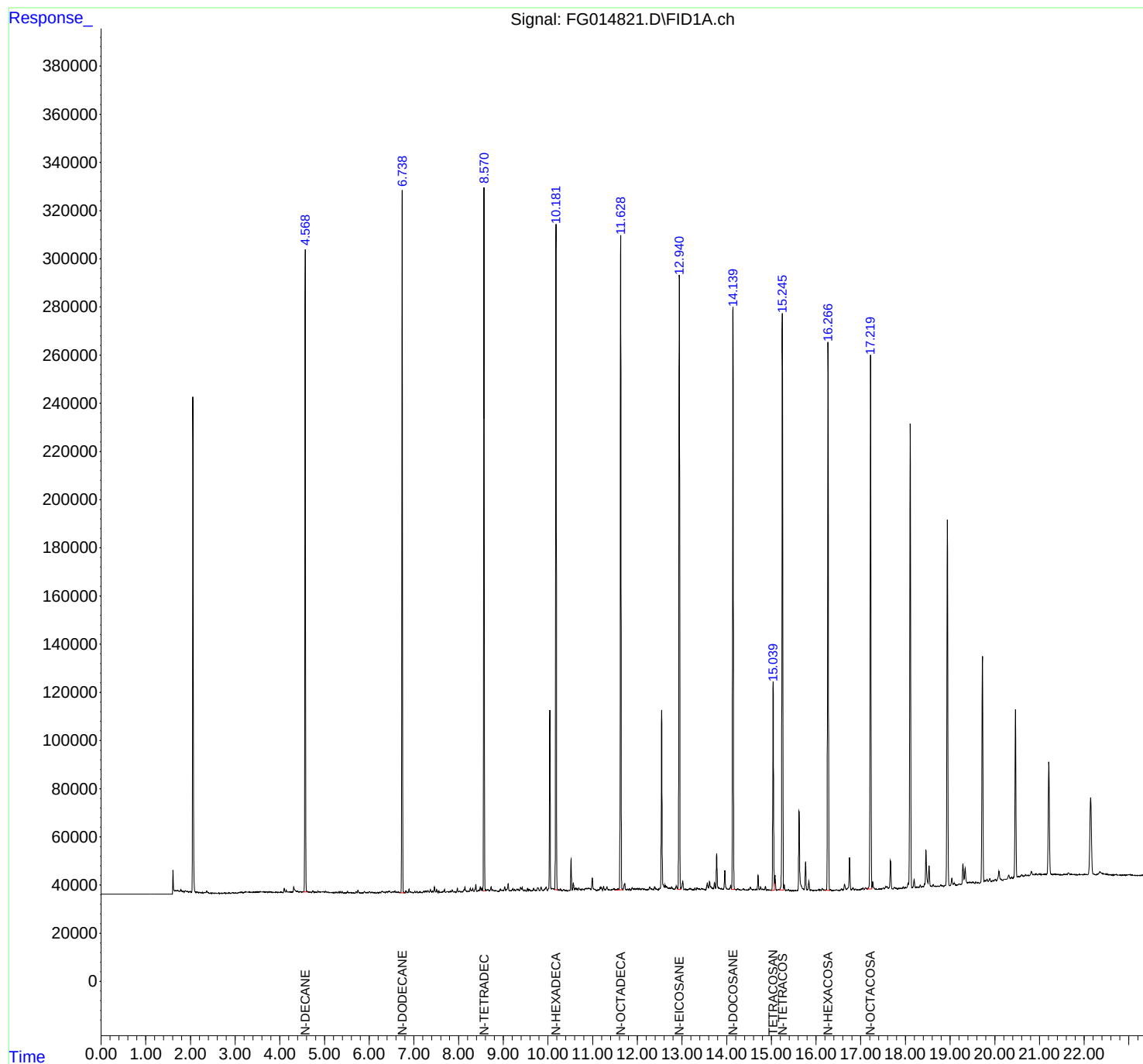
Instrument :
FID_G
ClientSampleId :
EX-9-TPH-18MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
Quant Time: Nov 18 05:51:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :

FID_G

ClientSampleId :

EX-9-TPH-18MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11162

Data File : FG014821.D

Signal(s) : FID1A.ch

Acq On : 16 Nov 2024 12:56

Sample : P4839-10MS

Misc :

ALS Vial : 27 Sample Multiplier: 1

Reviewed By :Yogesh Patel 11/18/2024

Supervised By :Ankita Jodhani 11/18/2024

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M

Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.568	4.536	4.635	VV	267081	2730160	86.13%	6.874%
2	4.640	4.635	4.663	VV	649	9145	0.29%	0.023%
3	4.670	4.663	4.684	VV	481	5729	0.18%	0.014%
4	4.690	4.684	4.707	VV	512	5974	0.19%	0.015%
5	4.740	4.707	4.769	VV	1089	21950	0.69%	0.055%
6	4.788	4.769	4.802	VV	473	8059	0.25%	0.020%
7	4.811	4.802	4.837	VV	474	8556	0.27%	0.022%
8	4.853	4.837	4.866	VV	817	10423	0.33%	0.026%
9	4.881	4.866	4.896	VV	650	9943	0.31%	0.025%
10	4.909	4.896	4.916	VV	592	6084	0.19%	0.015%
11	4.922	4.916	4.927	VV	548	3491	0.11%	0.009%
12	4.936	4.927	4.947	VV	571	6221	0.20%	0.016%
13	4.959	4.947	4.973	VV	626	9032	0.28%	0.023%
14	4.988	4.973	5.004	VV	690	10306	0.33%	0.026%
15	5.013	5.004	5.021	VV	589	5605	0.18%	0.014%
16	5.032	5.021	5.062	VV	705	12515	0.39%	0.032%
17	5.083	5.062	5.105	VV	555	11222	0.35%	0.028%
18	5.109	5.105	5.128	VV	318	3416	0.11%	0.009%
19	5.148	5.128	5.168	VV	345	6562	0.21%	0.017%
20	5.179	5.168	5.200	VV	312	4973	0.16%	0.013%
21	5.216	5.200	5.221	VV	316	3334	0.11%	0.008%
22	5.239	5.221	5.261	VV	431	8410	0.27%	0.021%
23	5.277	5.261	5.305	VV	542	7904	0.25%	0.020%
24	5.325	5.305	5.338	VV	494	6260	0.20%	0.016%
25	5.355	5.338	5.373	VV	724	8831	0.28%	0.022%
26	5.393	5.373	5.438	VV	719	10666	0.34%	0.027%
27	5.454	5.438	5.469	VV	165	1807	0.06%	0.005%
28	5.489	5.469	5.494	VV	237	2358	0.07%	0.006%
29	5.515	5.494	5.535	VV	802	10142	0.32%	0.026%
30	5.552	5.535	5.569	VV	296	4023	0.13%	0.010%
31	5.587	5.569	5.617	VV	310	5759	0.18%	0.015%
32	5.620	5.617	5.656	VV	195	2399	0.08%	0.006%
33	5.661	5.656	5.684	VV	129	1131	0.04%	0.003%
34	5.705	5.684	5.732	VV	621	10079	0.32%	0.025%
35	5.749	5.732	5.778	VV	1278	16373	0.52%	0.041%
36	5.783	5.778	5.822	VV	179	2624	0.08%	0.007%

37	5.835	5.822	5.849	VV	160	1525	0.05%	0.004%
38	5.859	5.849	5.867	VV	100	687		
39	5.894	5.867	5.927	VV	686	12782		
40	5.953	5.927	5.969	VV	342	4833		
41	5.974	5.969	5.982	VV	257	1460		
42	6.011	5.982	6.034	VV	636	12475		
43	6.051	6.034	6.065	VV	363	4697	0.15%	0.012%
44	6.076	6.065	6.081	VV	318	2418	0.08%	0.006%
45	6.095	6.081	6.111	VV	325	4033	0.13%	0.010%
46	6.122	6.111	6.132	VV	199	2116	0.07%	0.005%
47	6.137	6.132	6.162	VV	251	2240	0.07%	0.006%
48	6.188	6.162	6.212	PV	356	3848	0.12%	0.010%
49	6.242	6.212	6.260	VV	498	6761	0.21%	0.017%
50	6.283	6.260	6.293	VV	725	10340	0.33%	0.026%
51	6.298	6.293	6.325	VV	642	9297	0.29%	0.023%
52	6.338	6.325	6.354	VV	504	6137	0.19%	0.015%
53	6.386	6.354	6.404	VV	709	12695	0.40%	0.032%
54	6.421	6.404	6.435	VV	646	9543	0.30%	0.024%
55	6.453	6.435	6.491	VV	885	18260	0.58%	0.046%
56	6.509	6.491	6.523	VV	498	6879	0.22%	0.017%
57	6.538	6.523	6.555	VV	568	9139	0.29%	0.023%
58	6.576	6.555	6.598	VV	857	13823	0.44%	0.035%
59	6.614	6.598	6.643	VV	410	8460	0.27%	0.021%
60	6.654	6.643	6.675	VV	391	5614	0.18%	0.014%
61	6.687	6.675	6.708	VV	234	3318	0.10%	0.008%
62	6.739	6.708	6.793	VV	291224	2907923	91.74%	7.322%
63	6.821	6.793	6.842	PV	995	12399	0.39%	0.031%
64	6.862	6.842	6.873	VV	360	4526	0.14%	0.011%
65	6.893	6.873	6.918	VV	1654	20692	0.65%	0.052%
66	6.934	6.918	6.955	VV	529	7787	0.25%	0.020%
67	6.968	6.955	6.990	VV	336	3496	0.11%	0.009%
68	7.021	6.990	7.041	VV	686	9237	0.29%	0.023%
69	7.067	7.041	7.094	VV	631	9983	0.31%	0.025%
70	7.105	7.094	7.117	VV	248	2609	0.08%	0.007%
71	7.143	7.117	7.172	VV	663	10415	0.33%	0.026%
72	7.220	7.172	7.236	VV	668	12992	0.41%	0.033%
73	7.250	7.236	7.259	VV	625	7646	0.24%	0.019%
74	7.273	7.259	7.294	VV	882	13196	0.42%	0.033%
75	7.315	7.294	7.345	VV	1041	18102	0.57%	0.046%
76	7.372	7.345	7.404	VV	1381	24772	0.78%	0.062%
77	7.419	7.404	7.440	VV	773	10760	0.34%	0.027%
78	7.461	7.440	7.493	VV	2429	33739	1.06%	0.085%
79	7.510	7.493	7.541	VV	1408	19553	0.62%	0.049%
80	7.560	7.541	7.578	VV	721	9624	0.30%	0.024%
81	7.583	7.578	7.601	VV	281	3173	0.10%	0.008%
82	7.604	7.601	7.621	VV	276	2552	0.08%	0.006%
83	7.650	7.621	7.654	VV	442	5858	0.18%	0.015%
84	7.660	7.654	7.664	VV	501	2890	0.09%	0.007%
85	7.686	7.664	7.712	VV	1354	18305	0.58%	0.046%
86	7.753	7.712	7.766	VV	574	11623	0.37%	0.029%
87	7.775	7.766	7.793	VV	426	5467	0.17%	0.014%
88	7.808	7.793	7.836	VV	492	10299	0.32%	0.026%
89	7.862	7.836	7.893	VV	1144	20207	0.64%	0.051%

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-18MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024

Supervised By :Ankita Jodhani 11/18/2024

90	7.912	7.893	7.934	VV	485	7614	0.24%	0.019%
91	7.975	7.934	7.994	VV	1879	26533		
92	8.004	7.994	8.009	VV	430	3601		
93	8.027	8.009	8.046	VV	713	11166		
94	8.058	8.046	8.069	VV	464	5431		
95	8.075	8.069	8.087	VV	373	3399		
96	8.120	8.087	8.127	VV	1242	17982	0.57%	0.045%
97	8.144	8.127	8.166	VV	2380	32029	1.01%	0.081%
98	8.175	8.166	8.199	VV	803	11418	0.36%	0.029%
99	8.214	8.199	8.237	VV	769	12208	0.39%	0.031%
100	8.263	8.237	8.285	VV	1790	30372	0.96%	0.076%
101	8.319	8.285	8.347	VV	1813	36483	1.15%	0.092%
102	8.368	8.347	8.372	VV	1456	14568	0.46%	0.037%
103	8.388	8.372	8.416	VV	3429	46609	1.47%	0.117%
104	8.445	8.416	8.451	VV	971	15439	0.49%	0.039%
105	8.488	8.451	8.504	VV	2447	45531	1.44%	0.115%
106	8.517	8.504	8.539	VV	1875	26943	0.85%	0.068%
107	8.571	8.539	8.602	VV	292132	2962841	93.47%	7.460%
108	8.620	8.602	8.633	VV	1083	18058	0.57%	0.045%
109	8.663	8.633	8.691	VV	1272	35524	1.12%	0.089%
110	8.730	8.691	8.748	VV	2417	46226	1.46%	0.116%
111	8.762	8.748	8.781	VV	1128	18969	0.60%	0.048%
112	8.789	8.781	8.805	VV	864	11748	0.37%	0.030%
113	8.815	8.805	8.830	VV	835	11239	0.35%	0.028%
114	8.849	8.830	8.885	VV	765	20380	0.64%	0.051%
115	8.904	8.885	8.915	VV	648	9803	0.31%	0.025%
116	8.932	8.915	8.949	VV	1441	20960	0.66%	0.053%
117	8.967	8.949	8.984	VV	1070	19525	0.62%	0.049%
118	9.002	8.984	9.011	VV	934	13629	0.43%	0.034%
119	9.035	9.011	9.057	VV	2361	42280	1.33%	0.106%
120	9.111	9.057	9.150	VV	3599	85450	2.70%	0.215%
121	9.162	9.150	9.176	VV	783	10544	0.33%	0.027%
122	9.216	9.176	9.235	VV	1631	37756	1.19%	0.095%
123	9.254	9.235	9.276	VV	1318	24271	0.77%	0.061%
124	9.313	9.276	9.329	VV	1453	35336	1.11%	0.089%
125	9.341	9.329	9.361	VV	1265	19335	0.61%	0.049%
126	9.389	9.361	9.411	VV	2160	42859	1.35%	0.108%
127	9.426	9.411	9.466	VV	2094	38752	1.22%	0.098%
128	9.483	9.466	9.513	VV	988	20247	0.64%	0.051%
129	9.545	9.513	9.560	VV	1682	27940	0.88%	0.070%
130	9.576	9.560	9.593	VV	1302	18474	0.58%	0.047%
131	9.600	9.593	9.624	VV	1025	14401	0.45%	0.036%
132	9.634	9.624	9.648	VV	684	9422	0.30%	0.024%
133	9.681	9.648	9.715	VV	1729	41411	1.31%	0.104%
134	9.725	9.715	9.749	VV	991	16738	0.53%	0.042%
135	9.774	9.749	9.813	VV	1907	51786	1.63%	0.130%
136	9.848	9.813	9.898	VV	2212	58345	1.84%	0.147%
137	9.919	9.898	9.928	VV	1141	16384	0.52%	0.041%
138	9.959	9.928	9.989	VV	2166	54502	1.72%	0.137%
139	10.044	9.989	10.080	VV	75657	802323	25.31%	2.020%
140	10.093	10.080	10.104	VV	1549	21157	0.67%	0.053%
141	10.112	10.104	10.132	VV	1537	23968	0.76%	0.060%

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-18MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024

Supervised By :Ankita Jodhani 11/18/2024

142	10.137	10.132	10.150	VV	1367	14032	0.44%	0.035%
143	10.182	10.150	10.232	VV	277221	3086541	97.00%	0.000%
144	10.251	10.232	10.266	VV	1037	19254	0.05%	0.002%
145	10.284	10.266	10.323	VV	1395	29982	0.04%	0.002%
146	10.352	10.323	10.380	VV	1132	27981	0.04%	0.002%
147	10.397	10.380	10.403	VV	715	9184	0.08%	0.003%
148	10.417	10.403	10.436	VV	755	12943	0.41%	0.033%
149	10.456	10.436	10.464	VV	722	10243	0.32%	0.026%
150	10.481	10.464	10.490	VV	729	10454	0.33%	0.026%
151	10.519	10.490	10.543	VV	13691	161213	5.09%	0.406%
152	10.570	10.543	10.592	VV	3792	64383	2.03%	0.162%
153	10.620	10.592	10.634	VV	1674	34198	1.08%	0.086%
154	10.650	10.634	10.673	VV	1565	28691	0.91%	0.072%
155	10.691	10.673	10.712	VV	1656	29416	0.93%	0.074%
156	10.718	10.712	10.738	VV	1145	15763	0.50%	0.040%
157	10.742	10.738	10.746	VV	883	4447	0.14%	0.011%
158	10.766	10.746	10.777	VV	1342	20555	0.65%	0.052%
159	10.789	10.777	10.800	VV	1162	15333	0.48%	0.039%
160	10.804	10.800	10.816	VV	1096	9883	0.31%	0.025%
161	10.848	10.816	10.863	VV	1450	36024	1.14%	0.091%
162	10.872	10.863	10.887	VV	1578	20378	0.64%	0.051%
163	10.901	10.887	10.909	VV	1521	19206	0.61%	0.048%
164	10.922	10.909	10.934	VV	1584	21844	0.69%	0.055%
165	10.939	10.934	10.960	VV	1437	19016	0.60%	0.048%
166	10.994	10.960	11.037	VV	5710	111436	3.52%	0.281%
167	11.051	11.037	11.091	VV	1185	28954	0.91%	0.073%
168	11.133	11.091	11.143	VV	906	24968	0.79%	0.063%
169	11.171	11.143	11.182	VV	1922	30966	0.98%	0.078%
170	11.194	11.182	11.226	VV	1951	35736	1.13%	0.090%
171	11.246	11.226	11.282	VV	2230	44312	1.40%	0.112%
172	11.322	11.282	11.345	VV	2138	49669	1.57%	0.125%
173	11.351	11.345	11.369	VV	981	12397	0.39%	0.031%
174	11.377	11.369	11.388	VV	871	9645	0.30%	0.024%
175	11.392	11.388	11.397	VV	844	4298	0.14%	0.011%
176	11.401	11.397	11.415	VV	829	8035	0.25%	0.020%
177	11.457	11.415	11.463	VV	1048	26349	0.83%	0.066%
178	11.482	11.463	11.503	VV	1353	25820	0.81%	0.065%
179	11.520	11.503	11.528	VV	1014	12819	0.40%	0.032%
180	11.531	11.528	11.542	VV	1001	8389	0.26%	0.021%
181	11.562	11.542	11.578	VV	1250	23506	0.74%	0.059%
182	11.587	11.578	11.591	VV	1166	8792	0.28%	0.022%
183	11.628	11.591	11.678	VV	272465	3169878	100.00%	7.981%
184	11.717	11.678	11.754	VV	3445	85827	2.71%	0.216%
185	11.780	11.754	11.803	VV	1127	27705	0.87%	0.070%
186	11.823	11.803	11.849	VV	1309	26186	0.83%	0.066%
187	11.884	11.849	11.906	VV	1653	38327	1.21%	0.097%
188	11.922	11.906	11.927	VV	1239	14727	0.46%	0.037%
189	11.938	11.927	11.960	VV	1313	22438	0.71%	0.056%
190	11.976	11.960	11.992	VV	1322	21165	0.67%	0.053%
191	12.006	11.992	12.025	VV	1544	24155	0.76%	0.061%
192	12.043	12.025	12.065	VV	1491	27978	0.88%	0.070%
193	12.070	12.065	12.083	VV	1030	10270	0.32%	0.026%
194	12.112	12.083	12.142	VV	1372	40421	1.28%	0.102%

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-18MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

195	12.154	12.142	12.207	VV	1137	35313	1.11%	0.089%
196	12.236	12.207	12.245	VV	896	18661		
197	12.279	12.245	12.332	VV	1953	66991		
198	12.346	12.332	12.366	VV	1036	19430		
199	12.387	12.366	12.418	VV	2016	45014		
200	12.427	12.418	12.443	VV	1121	15143		
201	12.455	12.443	12.469	VV	1005	14296	0.45%	0.036%
202	12.476	12.469	12.488	VV	974	9770	0.31%	0.025%
203	12.510	12.488	12.514	VV	1565	19596	0.62%	0.049%
204	12.545	12.514	12.610	VV	75447	959335	30.26%	2.415%
205	12.625	12.610	12.641	VV	2701	40892	1.29%	0.103%
206	12.653	12.641	12.697	VV	2259	57922	1.83%	0.146%
207	12.720	12.697	12.748	VV	1585	42236	1.33%	0.106%
208	12.766	12.748	12.813	VV	1867	53558	1.69%	0.135%
209	12.819	12.813	12.831	VV	1006	10209	0.32%	0.026%
210	12.873	12.831	12.901	VV	2407	62701	1.98%	0.158%
211	12.940	12.901	12.974	VV	255659	3078345	97.11%	7.751%
212	13.017	12.974	13.046	VV	4226	95427	3.01%	0.240%
213	13.070	13.046	13.107	VV	924	31240	0.99%	0.079%
214	13.119	13.107	13.129	VV	856	10060	0.32%	0.025%
215	13.144	13.129	13.157	VV	881	13999	0.44%	0.035%
216	13.178	13.157	13.225	VV	1379	42760	1.35%	0.108%
217	13.242	13.225	13.269	VV	826	19698	0.62%	0.050%
218	13.291	13.269	13.315	VV	1484	28044	0.88%	0.071%
219	13.337	13.315	13.375	VV	1548	40055	1.26%	0.101%
220	13.385	13.375	13.408	VV	1212	19042	0.60%	0.048%
221	13.437	13.408	13.458	VV	1158	29776	0.94%	0.075%
222	13.463	13.458	13.485	VV	966	14349	0.45%	0.036%
223	13.498	13.485	13.514	VV	901	13870	0.44%	0.035%
224	13.519	13.514	13.523	VV	652	3607	0.11%	0.009%
225	13.564	13.523	13.594	VV	3347	77103	2.43%	0.194%
226	13.616	13.594	13.681	VV	4073	112195	3.54%	0.282%
227	13.686	13.681	13.701	VV	1302	13939	0.44%	0.035%
228	13.728	13.701	13.753	VV	3666	65029	2.05%	0.164%
229	13.776	13.753	13.865	VV	15518	254080	8.02%	0.640%
230	13.874	13.865	13.884	VV	1165	12742	0.40%	0.032%
231	13.888	13.884	13.910	VV	1056	14352	0.45%	0.036%
232	13.958	13.910	14.018	VV	8709	163574	5.16%	0.412%
233	14.026	14.018	14.041	VV	867	10982	0.35%	0.028%
234	14.057	14.041	14.063	VV	915	11313	0.36%	0.028%
235	14.090	14.063	14.107	VV	2450	42170	1.33%	0.106%
236	14.140	14.107	14.185	VV	242264	3014203	95.09%	7.589%
237	14.198	14.185	14.213	VV	834	12332	0.39%	0.031%
238	14.251	14.213	14.279	VV	982	30608	0.97%	0.077%
239	14.290	14.279	14.312	VV	660	10820	0.34%	0.027%
240	14.316	14.312	14.321	VV	440	2239	0.07%	0.006%
241	14.368	14.321	14.371	VV	886	18748	0.59%	0.047%
242	14.378	14.371	14.403	VV	922	14392	0.45%	0.036%
243	14.409	14.403	14.414	VV	534	3387	0.11%	0.009%
244	14.441	14.414	14.463	VV	607	15110	0.48%	0.038%
245	14.501	14.463	14.509	VV	789	16997	0.54%	0.043%
246	14.528	14.509	14.567	VV	1652	35987	1.14%	0.091%

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-18MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

					retention			
247	14.571	14.567	14.585	VV	690	6855	0.22%	0.017%
248	14.602	14.585	14.619	VV	644	12220		
249	14.625	14.619	14.643	VV	598	8114		
250	14.662	14.643	14.677	VV	883	14002		
251	14.702	14.677	14.728	VV	6545	86898		
252	14.758	14.728	14.783	VV	1815	33392		
253	14.799	14.783	14.814	VV	871	13830	0.44%	0.035%
254	14.826	14.814	14.846	VV	644	10823	0.34%	0.027%
255	14.867	14.846	14.897	VV	1879	29017	0.92%	0.073%
256	14.922	14.897	14.949	VV	686	14405	0.45%	0.036%
257	14.956	14.949	14.968	VV	443	4576	0.14%	0.012%
258	14.976	14.968	14.983	VV	433	3230	0.10%	0.008%
259	14.989	14.983	15.002	VV	379	3415	0.11%	0.009%
260	15.039	15.002	15.068	VV	86802	1157817	36.53%	2.915%
261	15.081	15.068	15.124	VV	6518	87560	2.76%	0.220%
262	15.162	15.124	15.180	VV	590	15684	0.49%	0.039%
263	15.245	15.180	15.275	VV	239817	3035765	95.77%	7.644%
264	15.288	15.275	15.322	VV	2449	31370	0.99%	0.079%
265	15.344	15.322	15.358	VV	375	6210	0.20%	0.016%
266	15.376	15.358	15.413	VV	525	9032	0.28%	0.023%
267	15.418	15.413	15.423	VV	93	402	0.01%	0.001%
268	15.435	15.423	15.440	VV	147	1168	0.04%	0.003%
269	15.443	15.440	15.457	VV	190	1038	0.03%	0.003%
270	15.463	15.457	15.470	PV	79	505	0.02%	0.001%
271	15.477	15.470	15.484	VV	157	1104	0.03%	0.003%
272	15.490	15.484	15.503	VV	151	1223	0.04%	0.003%
273	15.508	15.503	15.517	VV	97	499	0.02%	0.001%
274	15.536	15.517	15.541	VV	184	1535	0.05%	0.004%
275	15.547	15.541	15.567	VV	144	1343	0.04%	0.003%
276	15.580	15.567	15.591	VV	267	2676	0.08%	0.007%
277	15.619	15.591	15.709	VV	33058	508653	16.05%	1.281%
278	15.712	15.709	15.734	VV	806	10024	0.32%	0.025%
279	15.764	15.734	15.800	VV	12081	166114	5.24%	0.418%
280	15.837	15.800	15.868	VV	4077	61441	1.94%	0.155%
281	15.890	15.868	15.921	VV	424	7538	0.24%	0.019%
282	15.929	15.921	15.934	VV	135	737	0.02%	0.002%
283	15.938	15.934	15.943	VV	108	524	0.02%	0.001%
284	15.974	15.943	16.003	VV	278	5675	0.18%	0.014%
285	16.015	16.003	16.028	VV	218	2810	0.09%	0.007%
286	16.050	16.028	16.066	VV	429	6863	0.22%	0.017%
287	16.088	16.066	16.107	VV	490	8235	0.26%	0.021%
288	16.138	16.107	16.208	VV	954	23662	0.75%	0.060%
289	16.267	16.208	16.308	VV	227421	2971346	93.74%	7.482%
290	16.325	16.308	16.372	VV	473	7692	0.24%	0.019%
291	16.379	16.372	16.387	VV	91	398	0.01%	0.001%
292	16.411	16.387	16.425	PV	205	2785	0.09%	0.007%
293	16.453	16.425	16.460	VV	327	4852	0.15%	0.012%
294	16.462	16.460	16.477	VV	285	2025	0.06%	0.005%
295	16.480	16.477	16.495	VV	163	1172	0.04%	0.003%
296	16.500	16.495	16.510	VV	109	642	0.02%	0.002%
297	16.517	16.510	16.524	VV	63	365	0.01%	0.001%
298	16.529	16.524	16.533	PV	42	106	0.00%	0.000%
299	16.569	16.533	16.574	PV	653	7745	0.24%	0.020%

Instrument :

FID_G

ClientSampleId :

EX-9-TPH-18MS

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 11/18/2024

300	16.577	16.574	16.609	VV	623	7003		
301	16.635	16.609	16.682	VV	2606	52061		
302	16.748	16.682	16.779	VV	13542	209851		
303	16.826	16.779	16.860	VV	989	20205		
304	16.876	16.860	16.934	VV	520	11269		
305	16.947	16.934	16.968	VV	194	2539		
306	16.997	16.968	17.012	VV	310	5927	0.19%	0.015%
307	17.020	17.012	17.027	VV	391	2781	0.09%	0.007%
308	17.047	17.027	17.080	VV	901	15125	0.48%	0.038%
309	17.108	17.080	17.145	VV	888	22443	0.71%	0.057%
310	17.219	17.145	17.250	VV	222170	2910812	91.83%	7.329%
311	17.266	17.250	17.327	VV	3293	56924	1.80%	0.143%
312	17.334	17.327	17.370	VV	240	3866	0.12%	0.010%
313	17.377	17.370	17.383	VV	68	359	0.01%	0.001%
314	17.410	17.383	17.416	VV	204	2195	0.07%	0.006%
315	17.421	17.416	17.427	VV	193	973	0.03%	0.002%

Sum of corrected areas: 39715797

FG111324.M Mon Nov 18 06:41:07 2024

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-18MS

0.22% 0.018%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-6MS		SDG No.:	P4839	
Lab Sample ID:	P4839-22MS		Matrix:	SOIL	
Analytical Method:	8015D DRO		% Solid:	89.5	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
FF015086.D	1	11/16/24 08:20	11/18/24 15:18	PB165028

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	8040		206	1860	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
 Data File : FF015086.D
 Signal(s) : FID2B.ch
 Acq On : 18 Nov 2024 15:18
 Operator : YP\AJ
 Sample : P4839-22MS
 Misc :
 ALS Vial : 65 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 EX-4-TPH-6MS

Integration File: autoint1.e
 Quant Time: Nov 19 00:22:48 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
 Quant Title :
 QLast Update : Wed Nov 13 12:50:15 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	1754616	15.919 ug/ml
Target Compounds			
2) N-DECANE	4.568	1866475	14.169 ug/ml
3) N-DODECANE	6.730	1874498	13.965 ug/ml
4) N-TETRADECANE	8.554	1907702	14.776 ug/ml
5) N-HEXADECANE	10.161	1882119	14.515 ug/ml
6) N-OCTADECANE	11.603	1893025	14.353 ug/ml
7) N-EICOSANE	12.912	1891885	14.882 ug/ml
8) N-DOCOSANE	14.111	1815598	14.685 ug/ml
10) N-TETRACOSANE	15.214	1825718	15.028 ug/ml
11) N-HEXACOSANE	16.234	1824052	15.465 ug/ml
12) N-OCTACOSANE	17.186	1775522	15.391 ug/ml

(f)=RT Delta > 1/2 Window

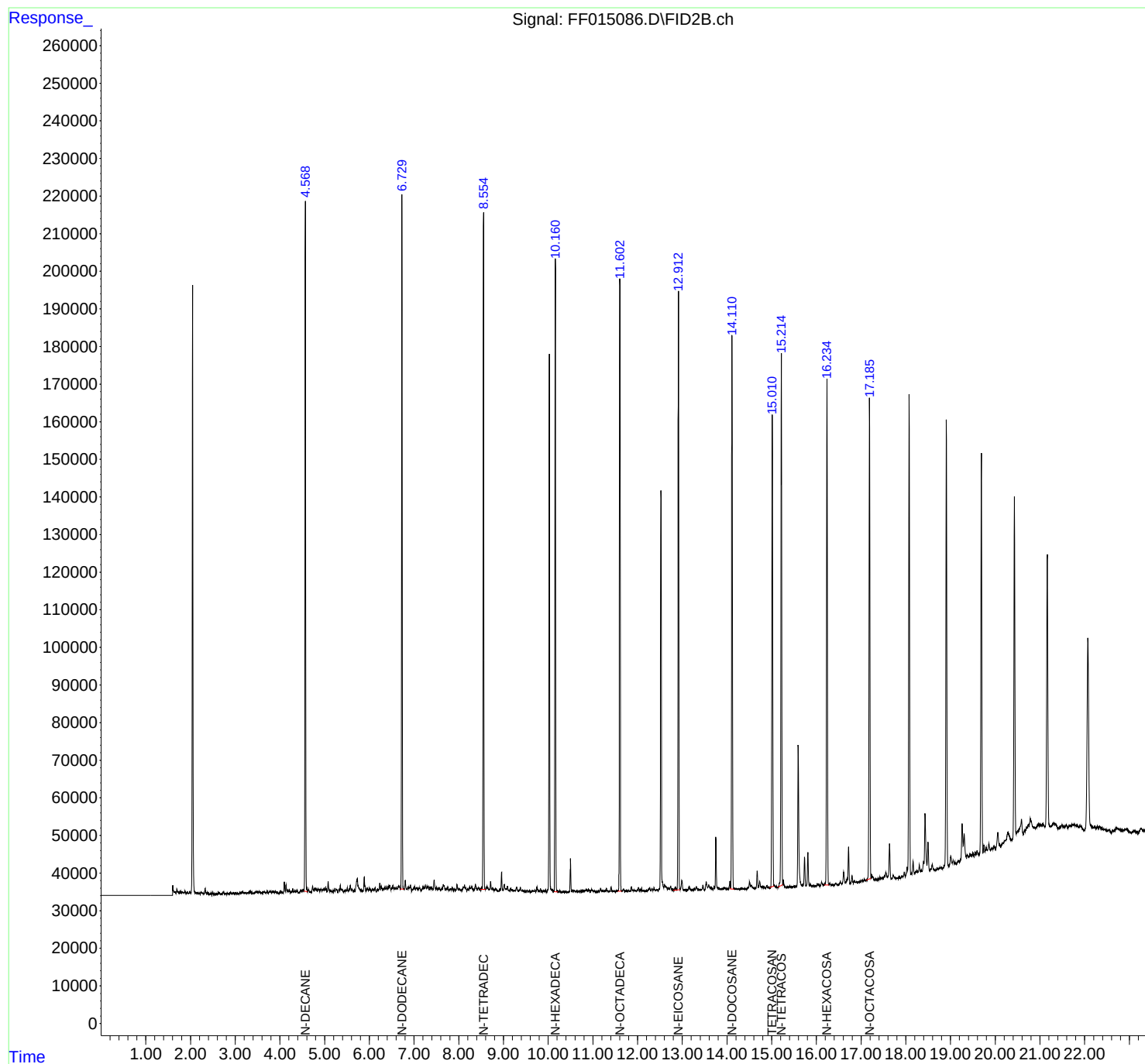
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015086.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 15:18
Operator : YP\AJ
Sample : P4839-22MS
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-6MS

Integration File: autoint1.e
Quant Time: Nov 19 00:22:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015086.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 15:18
Sample : P4839-22MS
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.463	4.420	4.495	BV	786	15501	0.80%	0.053%
2	4.522	4.495	4.538	VV	787	15030	0.78%	0.052%
3	4.568	4.538	4.622	VV	183715	1885459	97.48%	6.493%
4	4.642	4.622	4.673	VV	929	15166	0.78%	0.052%
5	4.676	4.673	4.682	VV	183	884	0.05%	0.003%
6	4.731	4.682	4.761	VV	1799	35039	1.81%	0.121%
7	4.782	4.761	4.796	VV	1333	19741	1.02%	0.068%
8	4.806	4.796	4.834	VV	939	17295	0.89%	0.060%
9	4.852	4.834	4.864	VV	1007	14734	0.76%	0.051%
10	4.869	4.864	4.898	VV	857	14536	0.75%	0.050%
11	4.911	4.898	4.922	VV	889	11492	0.59%	0.040%
12	4.928	4.922	4.944	VV	913	9682	0.50%	0.033%
13	4.985	4.944	5.000	VV	1068	27349	1.41%	0.094%
14	5.028	5.000	5.061	VV	1235	29457	1.52%	0.101%
15	5.080	5.061	5.121	VV	2999	43713	2.26%	0.151%
16	5.140	5.121	5.168	VV	665	13071	0.68%	0.045%
17	5.181	5.168	5.194	VV	462	5445	0.28%	0.019%
18	5.217	5.194	5.235	VV	766	13502	0.70%	0.046%
19	5.252	5.235	5.299	VV	1060	24661	1.27%	0.085%
20	5.322	5.299	5.336	VV	1013	13191	0.68%	0.045%
21	5.351	5.336	5.365	VV	2040	22938	1.19%	0.079%
22	5.370	5.365	5.383	VV	920	9119	0.47%	0.031%
23	5.388	5.383	5.424	VV	824	13900	0.72%	0.048%
24	5.442	5.424	5.460	VV	625	9938	0.51%	0.034%
25	5.475	5.460	5.494	VV	770	11407	0.59%	0.039%
26	5.508	5.494	5.528	VV	1359	17892	0.93%	0.062%
27	5.551	5.528	5.558	VV	1099	13763	0.71%	0.047%
28	5.574	5.558	5.595	VV	1981	29251	1.51%	0.101%
29	5.609	5.595	5.663	VV	932	24375	1.26%	0.084%
30	5.671	5.663	5.684	VV	747	7139	0.37%	0.025%
31	5.718	5.684	5.725	VV	3274	50774	2.63%	0.175%
32	5.734	5.725	5.768	VV	3962	59242	3.06%	0.204%
33	5.772	5.768	5.789	VV	1231	12814	0.66%	0.044%
34	5.798	5.789	5.814	VV	920	10853	0.56%	0.037%
35	5.826	5.814	5.844	VV	688	9913	0.51%	0.034%
36	5.848	5.844	5.857	VV	491	3186	0.16%	0.011%

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37	5.886	5.857	5.921	VV	4190	67120	3.47%	0.231%
38	5.940	5.921	5.952	VV	1181	16830	0.87%	0.058%
39	5.960	5.952	5.983	VV	1140	16757	0.87%	0.058%
40	6.001	5.983	6.045	VV	1124	30578	1.58%	0.105%
41	6.069	6.045	6.084	VV	1078	17756	0.92%	0.061%
42	6.091	6.084	6.104	VV	871	8943	0.46%	0.031%
43	6.116	6.104	6.124	VV	1170	11484	0.59%	0.040%
44	6.132	6.124	6.155	VV	1089	13770	0.71%	0.047%
45	6.183	6.155	6.199	VV	1043	15914	0.82%	0.055%
46	6.234	6.199	6.254	VV	2550	42652	2.21%	0.147%
47	6.269	6.254	6.299	VV	1884	33248	1.72%	0.114%
48	6.324	6.299	6.333	VV	1087	20073	1.04%	0.069%
49	6.342	6.333	6.356	VV	1368	15683	0.81%	0.054%
50	6.375	6.356	6.400	VV	1758	32310	1.67%	0.111%
51	6.421	6.400	6.434	VV	1763	26871	1.39%	0.093%
52	6.454	6.434	6.484	VV	1941	44302	2.29%	0.153%
53	6.500	6.484	6.513	VV	1258	17840	0.92%	0.061%
54	6.526	6.513	6.551	VV	1890	33471	1.73%	0.115%
55	6.566	6.551	6.580	VV	1273	19652	1.02%	0.068%
56	6.589	6.580	6.595	VV	1258	10741	0.56%	0.037%
57	6.607	6.595	6.631	VV	1279	24687	1.28%	0.085%
58	6.655	6.631	6.667	VV	1777	32427	1.68%	0.112%
59	6.676	6.667	6.701	VV	1659	26303	1.36%	0.091%
60	6.730	6.701	6.761	VV	185369	1908876	98.69%	6.573%
61	6.766	6.761	6.783	VV	1080	12830	0.66%	0.044%
62	6.805	6.783	6.848	VV	3318	60831	3.14%	0.209%
63	6.860	6.848	6.873	VV	1424	18269	0.94%	0.063%
64	6.887	6.873	6.895	VV	1418	17724	0.92%	0.061%
65	6.922	6.895	6.946	VV	2024	41997	2.17%	0.145%
66	6.993	6.946	6.998	VV	1195	26867	1.39%	0.093%
67	7.012	6.998	7.030	VV	1684	24692	1.28%	0.085%
68	7.059	7.030	7.081	VV	1353	33516	1.73%	0.115%
69	7.094	7.081	7.106	VV	1127	14281	0.74%	0.049%
70	7.123	7.106	7.155	VV	1243	29221	1.51%	0.101%
71	7.201	7.155	7.219	VV	1666	39411	2.04%	0.136%
72	7.234	7.219	7.244	VV	1475	18632	0.96%	0.064%
73	7.262	7.244	7.282	VV	1988	35008	1.81%	0.121%
74	7.300	7.282	7.309	VV	1619	23509	1.22%	0.081%
75	7.320	7.309	7.335	VV	1606	20114	1.04%	0.069%
76	7.359	7.335	7.379	VV	1565	32919	1.70%	0.113%
77	7.394	7.379	7.427	VV	1520	31847	1.65%	0.110%
78	7.450	7.427	7.486	VV	3309	65552	3.39%	0.226%
79	7.502	7.486	7.523	VV	1485	24783	1.28%	0.085%
80	7.546	7.523	7.560	VV	1346	24001	1.24%	0.083%
81	7.575	7.560	7.599	VV	1122	20979	1.08%	0.072%
82	7.629	7.599	7.638	VV	1153	21548	1.11%	0.074%
83	7.655	7.638	7.666	VV	2204	29301	1.51%	0.101%
84	7.671	7.666	7.704	VV	1870	28625	1.48%	0.099%
85	7.722	7.704	7.730	VV	1118	14869	0.77%	0.051%
86	7.756	7.730	7.777	VV	1478	29683	1.53%	0.102%
87	7.813	7.777	7.828	VV	998	25916	1.34%	0.089%
88	7.853	7.828	7.882	VV	1326	31489	1.63%	0.108%
89	7.901	7.882	7.918	VV	986	17104	0.88%	0.059%

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90	7.930	7.918	7.944	VV	713	9893	0.51%	0.034%
91	7.961	7.944	7.998	VV	2223	41599	2.15%	0.143%
92	8.011	7.998	8.040	VV	949	20062	1.04%	0.069%
93	8.050	8.040	8.070	VV	722	10870	0.56%	0.037%
94	8.108	8.070	8.117	VV	1561	31374	1.62%	0.108%
95	8.131	8.117	8.148	VV	1998	28305	1.46%	0.097%
96	8.157	8.148	8.178	VV	1383	19018	0.98%	0.065%
97	8.199	8.178	8.220	VV	895	18950	0.98%	0.065%
98	8.248	8.220	8.259	VV	1344	25009	1.29%	0.086%
99	8.267	8.259	8.273	VV	1230	9110	0.47%	0.031%
100	8.289	8.273	8.339	VV	1495	41838	2.16%	0.144%
101	8.375	8.339	8.413	VV	2306	54599	2.82%	0.188%
102	8.444	8.413	8.469	VV	1276	33671	1.74%	0.116%
103	8.478	8.469	8.494	VV	904	12352	0.64%	0.043%
104	8.512	8.494	8.524	VV	1461	20968	1.08%	0.072%
105	8.554	8.524	8.588	VV	180704	1934222	100.00%	6.661%
106	8.590	8.588	8.594	VV	919	3532	0.18%	0.012%
107	8.627	8.594	8.642	VV	1498	33499	1.73%	0.115%
108	8.652	8.642	8.671	VV	1373	18954	0.98%	0.065%
109	8.683	8.671	8.692	VV	902	10629	0.55%	0.037%
110	8.714	8.692	8.737	VV	2969	44016	2.28%	0.152%
111	8.752	8.737	8.765	VV	1291	17128	0.89%	0.059%
112	8.775	8.765	8.794	VV	894	12544	0.65%	0.043%
113	8.825	8.794	8.874	VV	954	33229	1.72%	0.114%
114	8.887	8.874	8.896	VV	475	5717	0.30%	0.020%
115	8.915	8.896	8.930	VV	851	12957	0.67%	0.045%
116	8.959	8.930	8.994	VV	5429	74634	3.86%	0.257%
117	9.017	8.994	9.046	VV	1989	40846	2.11%	0.141%
118	9.053	9.046	9.062	VV	982	8810	0.46%	0.030%
119	9.094	9.062	9.115	VV	1655	34477	1.78%	0.119%
120	9.124	9.115	9.138	VV	572	6987	0.36%	0.024%
121	9.160	9.138	9.195	VV	1084	25215	1.30%	0.087%
122	9.208	9.195	9.224	VV	788	10561	0.55%	0.036%
123	9.240	9.224	9.261	VV	655	10609	0.55%	0.037%
124	9.295	9.261	9.336	VV	1436	33638	1.74%	0.116%
125	9.352	9.336	9.359	VV	680	7572	0.39%	0.026%
126	9.380	9.359	9.418	VV	1358	27147	1.40%	0.093%
127	9.432	9.418	9.469	VV	518	11322	0.59%	0.039%
128	9.472	9.469	9.490	VV	367	3122	0.16%	0.011%
129	9.499	9.490	9.506	VV	261	2049	0.11%	0.007%
130	9.529	9.506	9.553	VV	679	10701	0.55%	0.037%
131	9.564	9.553	9.592	VV	395	6595	0.34%	0.023%
132	9.598	9.592	9.605	VV	297	1862	0.10%	0.006%
133	9.608	9.605	9.615	VV	284	1525	0.08%	0.005%
134	9.620	9.615	9.627	VV	244	1545	0.08%	0.005%
135	9.645	9.627	9.654	VV	533	5864	0.30%	0.020%
136	9.669	9.654	9.689	VV	528	8503	0.44%	0.029%
137	9.705	9.689	9.729	VV	660	9323	0.48%	0.032%
138	9.749	9.729	9.790	VV	1479	27381	1.42%	0.094%
139	9.799	9.790	9.807	VV	358	3039	0.16%	0.010%
140	9.829	9.807	9.877	VV	1029	17814	0.92%	0.061%
141	9.896	9.877	9.920	VV	431	8411	0.43%	0.029%

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142	9.924	9.920	9.927	VV	379	1517	0.08%	0.005%
143	9.939	9.927	9.974	VV	678	10834	0.56%	0.037%
144	10.028	9.974	10.084	VV	143073	1495638	77.33%	5.150%
145	10.095	10.084	10.120	VV	770	11872	0.61%	0.041%
146	10.124	10.120	10.129	VV	277	1277	0.07%	0.004%
147	10.161	10.129	10.210	VV	168441	1891425	97.79%	6.513%
148	10.227	10.210	10.248	VV	311	5247	0.27%	0.018%
149	10.265	10.248	10.289	VV	435	5517	0.29%	0.019%
150	10.293	10.289	10.298	PV	121	365	0.02%	0.001%
151	10.313	10.298	10.319	VV	211	1624	0.08%	0.006%
152	10.327	10.319	10.359	VV	240	3111	0.16%	0.011%
153	10.368	10.359	10.384	VV	206	1670	0.09%	0.006%
154	10.390	10.384	10.400	VV	166	1077	0.06%	0.004%
155	10.413	10.400	10.418	VV	100	782	0.04%	0.003%
156	10.436	10.418	10.445	VV	148	1640	0.08%	0.006%
157	10.457	10.445	10.474	VV	198	2123	0.11%	0.007%
158	10.501	10.474	10.529	VV	9011	99921	5.17%	0.344%
159	10.546	10.529	10.567	VV	719	10027	0.52%	0.035%
160	10.583	10.567	10.620	VV	605	10985	0.57%	0.038%
161	10.631	10.620	10.638	VV	307	3279	0.17%	0.011%
162	10.641	10.638	10.663	VV	523	2587	0.13%	0.009%
163	10.684	10.663	10.699	VV	387	5266	0.27%	0.018%
164	10.720	10.699	10.731	VV	319	4569	0.24%	0.016%
165	10.739	10.731	10.767	VV	363	5013	0.26%	0.017%
166	10.784	10.767	10.796	VV	425	5954	0.31%	0.021%
167	10.824	10.796	10.837	VV	517	8475	0.44%	0.029%
168	10.854	10.837	10.880	VV	811	14026	0.73%	0.048%
169	10.902	10.880	10.917	VV	736	11437	0.59%	0.039%
170	10.920	10.917	10.947	VV	453	5571	0.29%	0.019%
171	10.972	10.947	10.990	VV	727	11408	0.59%	0.039%
172	11.002	10.990	11.015	VV	446	4810	0.25%	0.017%
173	11.028	11.015	11.053	VV	290	4740	0.25%	0.016%
174	11.061	11.053	11.087	VV	112	1012	0.05%	0.003%
175	11.116	11.087	11.126	VV	257	3013	0.16%	0.010%
176	11.148	11.126	11.155	VV	329	3845	0.20%	0.013%
177	11.172	11.155	11.203	VV	1042	14832	0.77%	0.051%
178	11.223	11.203	11.256	VV	417	7869	0.41%	0.027%
179	11.272	11.256	11.288	VV	388	5319	0.28%	0.018%
180	11.302	11.288	11.376	VV	1020	18600	0.96%	0.064%
181	11.407	11.376	11.447	VV	1263	18825	0.97%	0.065%
182	11.460	11.447	11.477	VV	261	2918	0.15%	0.010%
183	11.487	11.477	11.498	VV	145	1168	0.06%	0.004%
184	11.518	11.498	11.523	VV	213	1538	0.08%	0.005%
185	11.535	11.523	11.557	VV	362	5301	0.27%	0.018%
186	11.603	11.557	11.645	VV	162843	1901722	98.32%	6.549%
187	11.681	11.645	11.729	VV	721	16596	0.86%	0.057%
188	11.733	11.729	11.739	VV	143	612	0.03%	0.002%
189	11.764	11.739	11.781	VV	412	5416	0.28%	0.019%
190	11.795	11.781	11.825	VV	379	4877	0.25%	0.017%
191	11.860	11.825	11.892	PV	1317	21554	1.11%	0.074%
192	11.903	11.892	11.940	VV	430	8795	0.45%	0.030%
193	11.957	11.940	11.971	VV	354	4494	0.23%	0.015%
194	11.998	11.971	12.002	VV	408	5107	0.26%	0.018%

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195	12.020	12.002	12.045	VV	1043	16102	0.83%	0.055%
196	12.083	12.045	12.112	VV	572	13338	0.69%	0.046%
197	12.117	12.112	12.131	VV	222	1767	0.09%	0.006%
198	12.136	12.131	12.141	VV	175	769	0.04%	0.003%
199	12.148	12.141	12.153	VV	163	795	0.04%	0.003%
200	12.158	12.153	12.166	VV	185	938	0.05%	0.003%
201	12.174	12.166	12.189	VV	152	1276	0.07%	0.004%
202	12.214	12.189	12.223	VV	263	3419	0.18%	0.012%
203	12.260	12.223	12.304	VV	797	21667	1.12%	0.075%
204	12.322	12.304	12.343	VV	754	10639	0.55%	0.037%
205	12.366	12.343	12.417	VV	975	19165	0.99%	0.066%
206	12.432	12.417	12.452	VV	423	6215	0.32%	0.021%
207	12.457	12.452	12.460	VV	196	807	0.04%	0.003%
208	12.484	12.460	12.491	VV	650	7522	0.39%	0.026%
209	12.523	12.491	12.581	VV	106495	1332740	68.90%	4.589%
210	12.601	12.581	12.617	VV	1825	29358	1.52%	0.101%
211	12.629	12.617	12.673	VV	1269	30901	1.60%	0.106%
212	12.700	12.673	12.720	VV	734	17072	0.88%	0.059%
213	12.736	12.720	12.814	VV	1225	28514	1.47%	0.098%
214	12.844	12.814	12.874	VV	921	17760	0.92%	0.061%
215	12.912	12.874	12.953	VV	159534	1891689	97.80%	6.514%
216	12.989	12.953	13.019	VV	2719	51352	2.65%	0.177%
217	13.031	13.019	13.046	VV	254	3489	0.18%	0.012%
218	13.062	13.046	13.080	VV	215	2582	0.13%	0.009%
219	13.122	13.080	13.129	VV	227	3228	0.17%	0.011%
220	13.148	13.129	13.187	VV	915	18565	0.96%	0.064%
221	13.191	13.187	13.205	VV	270	1837	0.09%	0.006%
222	13.214	13.205	13.221	VV	153	1206	0.06%	0.004%
223	13.225	13.221	13.247	VV	191	1754	0.09%	0.006%
224	13.269	13.247	13.288	VV	635	7346	0.38%	0.025%
225	13.313	13.288	13.345	VV	1031	19931	1.03%	0.069%
226	13.358	13.345	13.384	VV	269	4400	0.23%	0.015%
227	13.404	13.384	13.422	VV	253	3474	0.18%	0.012%
228	13.459	13.422	13.488	VV	1370	21107	1.09%	0.073%
229	13.489	13.488	13.504	VV	165	863	0.04%	0.003%
230	13.535	13.504	13.566	VV	2207	43833	2.27%	0.151%
231	13.590	13.566	13.634	VV	1400	35307	1.83%	0.122%
232	13.638	13.634	13.685	VV	629	13113	0.68%	0.045%
233	13.715	13.685	13.727	VV	890	13672	0.71%	0.047%
234	13.748	13.727	13.819	VV	14077	179944	9.30%	0.620%
235	13.823	13.819	13.842	VV	355	3872	0.20%	0.013%
236	13.847	13.842	13.852	VV	247	1297	0.07%	0.004%
237	13.859	13.852	13.884	VV	243	3713	0.19%	0.013%
238	13.906	13.884	13.915	VV	377	5647	0.29%	0.019%
239	13.925	13.915	13.942	VV	454	5937	0.31%	0.020%
240	13.954	13.942	13.996	VV	532	10882	0.56%	0.037%
241	14.000	13.996	14.011	VV	159	1075	0.06%	0.004%
242	14.063	14.011	14.079	VV	2277	32080	1.66%	0.110%
243	14.111	14.079	14.161	VV	147180	1823162	94.26%	6.278%
244	14.166	14.161	14.189	VV	284	2909	0.15%	0.010%
245	14.208	14.189	14.218	VV	272	3522	0.18%	0.012%
246	14.224	14.218	14.235	VV	237	1655	0.09%	0.006%

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247	14.239	14.235	14.256	VV	145	956	0.05%	0.003%
248	14.267	14.256	14.272	VV	127	821	0.04%	0.003%
249	14.276	14.272	14.281	VV	129	446	0.02%	0.002%
250	14.299	14.281	14.303	VV	192	1348	0.07%	0.005%
251	14.325	14.303	14.338	VV	265	3697	0.19%	0.013%
252	14.344	14.338	14.399	VV	223	5778	0.30%	0.020%
253	14.402	14.399	14.408	PV	104	452	0.02%	0.002%
254	14.413	14.408	14.424	VV	102	513	0.03%	0.002%
255	14.433	14.424	14.441	PV	106	691	0.04%	0.002%
256	14.446	14.441	14.449	VV	81	339	0.02%	0.001%
257	14.469	14.449	14.481	VV	498	6229	0.32%	0.021%
258	14.501	14.481	14.526	VV	2016	33465	1.73%	0.115%
259	14.541	14.526	14.578	VV	1078	22328	1.15%	0.077%
260	14.584	14.578	14.613	VV	410	6255	0.32%	0.022%
261	14.621	14.613	14.646	VV	283	3846	0.20%	0.013%
262	14.673	14.646	14.699	VV	4764	63639	3.29%	0.219%
263	14.729	14.699	14.760	VV	2021	37508	1.94%	0.129%
264	14.767	14.760	14.794	VV	681	10227	0.53%	0.035%
265	14.798	14.794	14.811	VV	334	3183	0.16%	0.011%
266	14.825	14.811	14.832	VV	453	4086	0.21%	0.014%
267	14.836	14.832	14.853	VV	398	2721	0.14%	0.009%
268	14.862	14.853	14.866	VV	243	1299	0.07%	0.004%
269	14.889	14.866	14.926	VV	793	14069	0.73%	0.048%
270	14.935	14.926	14.969	VV	341	4718	0.24%	0.016%
271	15.010	14.969	15.054	VV	125573	1778331	91.94%	6.124%
272	15.060	15.054	15.088	VV	822	11404	0.59%	0.039%
273	15.099	15.088	15.106	VV	380	3325	0.17%	0.011%
274	15.109	15.106	15.129	VV	309	2789	0.14%	0.010%
275	15.214	15.129	15.244	VV	141892	1860210	96.17%	6.406%
276	15.258	15.244	15.299	VV	2102	30985	1.60%	0.107%
277	15.309	15.299	15.318	VV	229	1811	0.09%	0.006%
278	15.321	15.318	15.334	VV	116	1029	0.05%	0.004%
279	15.351	15.334	15.382	PV	156	2847	0.15%	0.010%
280	15.385	15.382	15.389	VV	103	352	0.02%	0.001%
281	15.410	15.389	15.452	VV	321	5350	0.28%	0.018%
282	15.481	15.452	15.485	VV	195	2343	0.12%	0.008%
283	15.507	15.485	15.534	VV	260	6054	0.31%	0.021%
284	15.544	15.534	15.558	VV	292	3710	0.19%	0.013%
285	15.591	15.558	15.675	VV	37740	590504	30.53%	2.033%
286	15.691	15.675	15.704	VV	484	7045	0.36%	0.024%
287	15.733	15.704	15.769	VV	7877	112413	5.81%	0.387%
288	15.807	15.769	15.844	VV	9155	128943	6.67%	0.444%
289	15.856	15.844	15.893	VV	601	9898	0.51%	0.034%
290	15.910	15.893	15.944	VV	177	2290	0.12%	0.008%
291	15.966	15.944	15.973	PV	127	1088	0.06%	0.004%
292	15.991	15.973	15.996	VV	190	1638	0.08%	0.006%
293	16.034	15.996	16.075	VV	469	15802	0.82%	0.054%
294	16.079	16.075	16.089	VV	114	605	0.03%	0.002%
295	16.113	16.089	16.146	VV	969	18771	0.97%	0.065%
296	16.150	16.146	16.177	VV	327	4724	0.24%	0.016%
297	16.234	16.177	16.280	VV	134636	1836089	94.93%	6.323%
298	16.298	16.280	16.334	VV	493	8758	0.45%	0.030%
299	16.351	16.334	16.357	VV	178	1576	0.08%	0.005%

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300	16.374	16.357	16.394	VV	211	2679	0.14%	0.009%	
301	16.431	16.394	16.464	PV	516	9743	0.50%	0.034%	
302	16.470	16.464	16.484	VV	69	514	0.03%	0.002%	
303	16.488	16.484	16.494	VV	59	178	0.01%	0.001%	
304	16.534	16.494	16.568	PV	717	14877	0.77%	0.051%	
305	16.608	16.568	16.656	VV	3263	64076	3.31%	0.221%	
306	16.682	16.656	16.691	VV	1272	19488	1.01%	0.067%	
307	16.717	16.691	16.754	VV	9807	135774	7.02%	0.468%	
308	16.759	16.754	16.764	VV	87	461	0.02%	0.002%	
309	16.795	16.764	16.824	VV	2014	30908	1.60%	0.106%	
310	16.847	16.824	16.869	PV	664	9260	0.48%	0.032%	
311	16.879	16.869	16.897	VV	221	2200	0.11%	0.008%	
312	16.924	16.897	16.931	VV	152	2029	0.10%	0.007%	
313	16.934	16.931	16.937	VV	118	274	0.01%	0.001%	
314	16.945	16.937	16.951	VV	157	622	0.03%	0.002%	
315	17.018	16.951	17.039	VV	530	11628	0.60%	0.040%	
316	17.068	17.039	17.104	PV	517	11406	0.59%	0.039%	
317	17.108	17.104	17.114	VV	258	1430	0.07%	0.005%	
318	17.119	17.114	17.129	VV	274	2048	0.11%	0.007%	
319	17.186	17.129	17.219	VV	128306	1797506	92.93%	6.190%	
320	17.235	17.219	17.249	VV	1440	18575	0.96%	0.064%	
321	17.260	17.249	17.301	VBA	909	13487	0.70%	0.046%	
				Sum of corrected areas:		29039725			

FF111324.M Tue Nov 19 01:25:27 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/13/24
Project:	North Point	Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-18MSD	SDG No.:	P4839
Lab Sample ID:	P4839-10MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	79
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014822.D	1	11/14/24 13:15	11/16/24 13:25	PB164995

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	12900		233	2100	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.2		37 - 130	51%	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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
 Data File : FG014822.D
 Signal(s) : FID1A.ch
 Acq On : 16 Nov 2024 13:25
 Operator : YP\AJ
 Sample : P4839-10MSD
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 EX-9-TPH-18MSD

Integration File: autoint1.e
 Quant Time: Nov 18 05:51:28 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Quant Title :
 QLast Update : Wed Nov 13 13:49:18 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...	15.040	1141574	10.177 ug/ml
Target Compounds			
2) N-DECANE	4.568	2715308	21.503 ug/ml
3) N-DODECANE	6.739	2931482	22.571 ug/ml
4) N-TETRADECANE	8.571	2957645	23.469 ug/ml
5) N-HEXADECANE	10.182	3054150	23.947 ug/ml
6) N-OCTADECANE	11.628	3138606	23.968 ug/ml
7) N-EICOSANE	12.941	3054281	23.987 ug/ml
8) N-DOCOSANE	14.140	2994470	23.973 ug/ml
10) N-TETRACOSANE	15.246	3024789	24.486 ug/ml
11) N-HEXACOSANE	16.268	2976369	24.740 ug/ml
12) N-OCTACOSANE	17.217	2935445	24.968 ug/ml

(f)=RT Delta > 1/2 Window

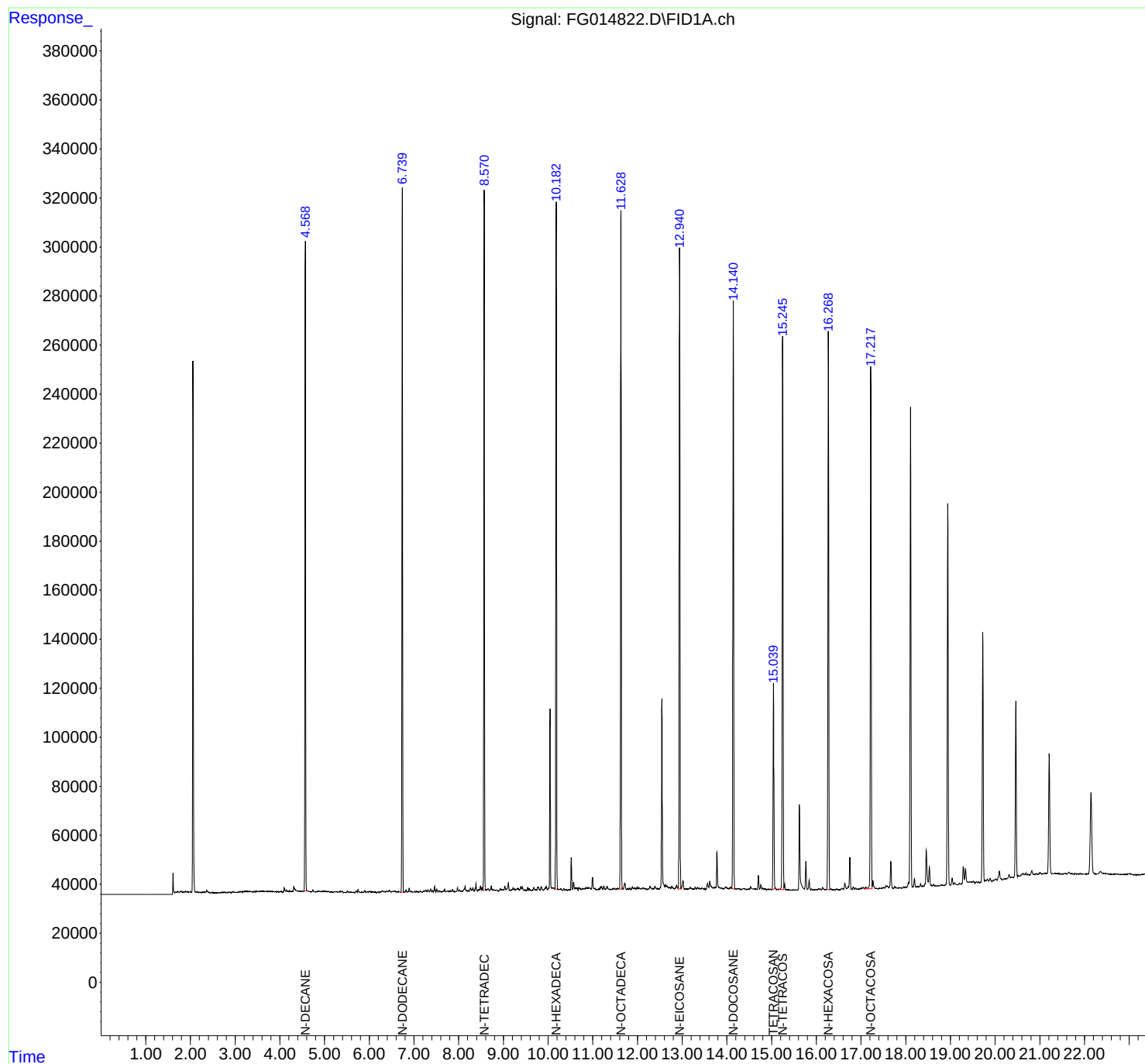
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
Data File : FG014822.D
Signal(s) : FID1A.ch
Acq On : 16 Nov 2024 13:25
Operator : YP\AJ
Sample : P4839-10MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EX-9-TPH-18MSD

Integration File: autoint1.e
Quant Time: Nov 18 05:51:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111624\
 Data File : FG014822.D
 Signal(s) : FID1A.ch
 Acq On : 16 Nov 2024 13:25
 Sample : P4839-10MSD
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.524	4.521	4.530	VV	659	3433	0.11%	0.009%
2	4.568	4.530	4.599	VV	266025	2744577	85.98%	6.920%
3	4.607	4.599	4.634	VV	914	16270	0.51%	0.041%
4	4.640	4.634	4.675	VV	660	13307	0.42%	0.034%
5	4.693	4.675	4.707	VV	524	8847	0.28%	0.022%
6	4.740	4.707	4.769	VV	1172	23580	0.74%	0.059%
7	4.794	4.769	4.806	VV	479	9642	0.30%	0.024%
8	4.822	4.806	4.837	VV	535	7930	0.25%	0.020%
9	4.853	4.837	4.868	VV	834	10946	0.34%	0.028%
10	4.878	4.868	4.903	VV	653	11716	0.37%	0.030%
11	4.935	4.903	4.947	VV	626	14537	0.46%	0.037%
12	4.959	4.947	4.971	VV	667	8421	0.26%	0.021%
13	4.985	4.971	5.012	VV	647	13775	0.43%	0.035%
14	5.033	5.012	5.059	VV	728	15518	0.49%	0.039%
15	5.079	5.059	5.121	VV	628	15200	0.48%	0.038%
16	5.124	5.121	5.128	VV	297	1192	0.04%	0.003%
17	5.134	5.128	5.138	VV	301	1753	0.05%	0.004%
18	5.149	5.138	5.172	VV	435	6902	0.22%	0.017%
19	5.183	5.172	5.202	VV	332	4688	0.15%	0.012%
20	5.236	5.202	5.259	VV	465	13034	0.41%	0.033%
21	5.278	5.259	5.305	VV	567	9522	0.30%	0.024%
22	5.323	5.305	5.338	VV	503	6861	0.21%	0.017%
23	5.355	5.338	5.376	VV	697	9478	0.30%	0.024%
24	5.393	5.376	5.427	VV	736	10611	0.33%	0.027%
25	5.448	5.427	5.464	VV	186	2458	0.08%	0.006%
26	5.491	5.464	5.499	VV	242	3636	0.11%	0.009%
27	5.513	5.499	5.536	VV	877	10202	0.32%	0.026%
28	5.550	5.536	5.571	VV	346	4735	0.15%	0.012%
29	5.589	5.571	5.603	VV	321	4830	0.15%	0.012%
30	5.608	5.603	5.636	VV	218	3401	0.11%	0.009%
31	5.643	5.636	5.673	VV	174	2514	0.08%	0.006%
32	5.680	5.673	5.688	VV	97	668	0.02%	0.002%
33	5.706	5.688	5.733	VV	679	11477	0.36%	0.029%
34	5.749	5.733	5.813	VV	1334	19265	0.60%	0.049%
35	5.831	5.813	5.847	VV	192	2548	0.08%	0.006%
36	5.859	5.847	5.867	VV	177	1426	0.04%	0.004%

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37	5.894	5.867	5.926	VV	809	14252	0.45%	0.036%
38	5.957	5.926	5.967	VV	345	6094	0.19%	0.015%
39	5.970	5.967	5.985	VV	322	2560	0.08%	0.006%
40	6.008	5.985	6.036	VV	622	13359	0.42%	0.034%
41	6.050	6.036	6.067	VV	409	5213	0.16%	0.013%
42	6.078	6.067	6.088	VV	288	2794	0.09%	0.007%
43	6.094	6.088	6.118	VV	307	3618	0.11%	0.009%
44	6.122	6.118	6.129	VV	260	1325	0.04%	0.003%
45	6.139	6.129	6.168	VV	270	2765	0.09%	0.007%
46	6.189	6.168	6.204	VV	348	3863	0.12%	0.010%
47	6.241	6.204	6.258	PV	467	7007	0.22%	0.018%
48	6.287	6.258	6.294	VV	711	11132	0.35%	0.028%
49	6.298	6.294	6.325	VV	669	9314	0.29%	0.023%
50	6.337	6.325	6.361	VV	496	7882	0.25%	0.020%
51	6.387	6.361	6.406	VV	678	12389	0.39%	0.031%
52	6.426	6.406	6.437	VV	641	9821	0.31%	0.025%
53	6.455	6.437	6.493	VV	956	18660	0.58%	0.047%
54	6.510	6.493	6.519	VV	485	5791	0.18%	0.015%
55	6.537	6.519	6.558	VV	562	11243	0.35%	0.028%
56	6.577	6.558	6.597	VV	799	11913	0.37%	0.030%
57	6.614	6.597	6.623	VV	404	5192	0.16%	0.013%
58	6.627	6.623	6.638	VV	375	2634	0.08%	0.007%
59	6.659	6.638	6.676	VV	417	6859	0.21%	0.017%
60	6.680	6.676	6.708	VV	243	3534	0.11%	0.009%
61	6.739	6.708	6.793	VV	287677	2935228	91.95%	7.401%
62	6.822	6.793	6.842	VV	1046	13079	0.41%	0.033%
63	6.864	6.842	6.874	VV	368	5134	0.16%	0.013%
64	6.893	6.874	6.918	VV	1776	21081	0.66%	0.053%
65	6.932	6.918	6.952	VV	585	7478	0.23%	0.019%
66	6.968	6.952	6.994	VV	349	4371	0.14%	0.011%
67	7.000	6.994	7.007	VV	128	827	0.03%	0.002%
68	7.022	7.007	7.044	VV	652	7303	0.23%	0.018%
69	7.069	7.044	7.093	VV	655	9512	0.30%	0.024%
70	7.107	7.093	7.117	VV	212	2356	0.07%	0.006%
71	7.144	7.117	7.174	VV	628	10379	0.33%	0.026%
72	7.191	7.174	7.197	VV	191	1853	0.06%	0.005%
73	7.218	7.197	7.237	VV	661	11026	0.35%	0.028%
74	7.252	7.237	7.256	VV	648	6265	0.20%	0.016%
75	7.270	7.256	7.296	VV	915	15043	0.47%	0.038%
76	7.314	7.296	7.343	VV	1113	17476	0.55%	0.044%
77	7.371	7.343	7.405	VV	1344	24953	0.78%	0.063%
78	7.419	7.405	7.440	VV	788	10713	0.34%	0.027%
79	7.461	7.440	7.494	VV	2375	34641	1.09%	0.087%
80	7.511	7.494	7.539	VV	1411	18981	0.59%	0.048%
81	7.561	7.539	7.586	VV	684	11443	0.36%	0.029%
82	7.592	7.586	7.603	VV	301	2602	0.08%	0.007%
83	7.610	7.603	7.621	VV	253	2349	0.07%	0.006%
84	7.686	7.621	7.712	VV	1309	28354	0.89%	0.071%
85	7.750	7.712	7.767	VV	542	12435	0.39%	0.031%
86	7.777	7.767	7.787	VV	453	4655	0.15%	0.012%
87	7.808	7.787	7.839	VV	510	11751	0.37%	0.030%
88	7.863	7.839	7.891	VV	1135	18793	0.59%	0.047%
89	7.913	7.891	7.932	VV	508	7447	0.23%	0.019%

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90	7.975	7.932	7.998	VV	1926	28434	0.89%	0.072%
91	8.004	7.998	8.010	VV	481	3211	0.10%	0.008%
92	8.028	8.010	8.045	VV	769	11730	0.37%	0.030%
93	8.056	8.045	8.074	VV	482	6946	0.22%	0.018%
94	8.078	8.074	8.083	VV	362	1825	0.06%	0.005%
95	8.120	8.083	8.127	VV	1230	19556	0.61%	0.049%
96	8.144	8.127	8.163	VV	2398	31857	1.00%	0.080%
97	8.174	8.163	8.198	VV	815	12547	0.39%	0.032%
98	8.215	8.198	8.232	VV	765	11265	0.35%	0.028%
99	8.263	8.232	8.288	VV	1699	31841	1.00%	0.080%
100	8.319	8.288	8.339	VV	1777	32741	1.03%	0.083%
101	8.345	8.339	8.349	VV	489	2656	0.08%	0.007%
102	8.388	8.349	8.420	VV	3478	61805	1.94%	0.156%
103	8.459	8.420	8.467	VV	1002	23128	0.72%	0.058%
104	8.488	8.467	8.504	VV	2494	36818	1.15%	0.093%
105	8.518	8.504	8.539	VV	1838	27352	0.86%	0.069%
106	8.571	8.539	8.602	VV	285922	2985608	93.53%	7.528%
107	8.618	8.602	8.631	VV	1081	16633	0.52%	0.042%
108	8.651	8.631	8.658	VV	1227	17605	0.55%	0.044%
109	8.664	8.658	8.687	VV	1271	16694	0.52%	0.042%
110	8.730	8.687	8.749	VV	2459	47960	1.50%	0.121%
111	8.764	8.749	8.777	VV	1159	16213	0.51%	0.041%
112	8.792	8.777	8.808	VV	844	14596	0.46%	0.037%
113	8.818	8.808	8.835	VV	869	12057	0.38%	0.030%
114	8.852	8.835	8.888	VV	760	18651	0.58%	0.047%
115	8.900	8.888	8.913	VV	645	8044	0.25%	0.020%
116	8.932	8.913	8.953	VV	1427	24082	0.75%	0.061%
117	8.969	8.953	8.987	VV	1034	18718	0.59%	0.047%
118	8.997	8.987	9.013	VV	887	12397	0.39%	0.031%
119	9.036	9.013	9.058	VV	2346	41992	1.32%	0.106%
120	9.073	9.058	9.081	VV	1245	14828	0.46%	0.037%
121	9.112	9.081	9.150	VV	3719	70160	2.20%	0.177%
122	9.166	9.150	9.177	VV	815	11334	0.36%	0.029%
123	9.216	9.177	9.235	VV	1669	37266	1.17%	0.094%
124	9.254	9.235	9.276	VV	1334	24128	0.76%	0.061%
125	9.316	9.276	9.328	VV	1434	34070	1.07%	0.086%
126	9.340	9.328	9.355	VV	1298	17196	0.54%	0.043%
127	9.390	9.355	9.411	VV	2161	46107	1.44%	0.116%
128	9.426	9.411	9.470	VV	2045	39753	1.25%	0.100%
129	9.486	9.470	9.511	VV	950	17712	0.55%	0.045%
130	9.544	9.511	9.562	VV	1712	29514	0.92%	0.074%
131	9.576	9.562	9.621	VV	1337	30062	0.94%	0.076%
132	9.624	9.621	9.643	VV	660	8393	0.26%	0.021%
133	9.681	9.643	9.710	VV	1762	40352	1.26%	0.102%
134	9.727	9.710	9.748	VV	920	18587	0.58%	0.047%
135	9.771	9.748	9.817	VV	1869	53445	1.67%	0.135%
136	9.847	9.817	9.898	VV	2151	55665	1.74%	0.140%
137	9.917	9.898	9.924	VV	1132	14084	0.44%	0.036%
138	9.961	9.924	9.986	VV	2224	54705	1.71%	0.138%
139	10.044	9.986	10.081	VV	74560	808735	25.34%	2.039%
140	10.089	10.081	10.103	VV	1530	19004	0.60%	0.048%
141	10.115	10.103	10.132	VV	1589	25847	0.81%	0.065%

					rteres			
142	10.140	10.132	10.151	VV	1389	13832	0.43%	0.035%
143	10.182	10.151	10.228	VV	281000	3100337	97.12%	7.817%
144	10.246	10.228	10.268	VV	1006	21382	0.67%	0.054%
145	10.283	10.268	10.321	VV	1318	27588	0.86%	0.070%
146	10.351	10.321	10.384	VV	1131	29806	0.93%	0.075%
147	10.417	10.384	10.437	VV	754	20551	0.64%	0.052%
148	10.459	10.437	10.464	VV	760	10024	0.31%	0.025%
149	10.479	10.464	10.492	VV	773	11655	0.37%	0.029%
150	10.518	10.492	10.544	VV	13783	160786	5.04%	0.405%
151	10.570	10.544	10.593	VV	3815	63071	1.98%	0.159%
152	10.619	10.593	10.633	VV	1690	31910	1.00%	0.080%
153	10.648	10.633	10.673	VV	1557	29282	0.92%	0.074%
154	10.692	10.673	10.715	VV	1604	31256	0.98%	0.079%
155	10.718	10.715	10.744	VV	1126	16750	0.52%	0.042%
156	10.763	10.744	10.779	VV	1347	22593	0.71%	0.057%
157	10.787	10.779	10.791	VV	1148	7691	0.24%	0.019%
158	10.798	10.791	10.811	VV	1106	12849	0.40%	0.032%
159	10.832	10.811	10.839	VV	1376	20708	0.65%	0.052%
160	10.847	10.839	10.863	VV	1387	18664	0.58%	0.047%
161	10.872	10.863	10.891	VV	1568	22789	0.71%	0.057%
162	10.902	10.891	10.912	VV	1496	17137	0.54%	0.043%
163	10.922	10.912	10.937	VV	1540	21436	0.67%	0.054%
164	10.941	10.937	10.961	VV	1351	16579	0.52%	0.042%
165	10.994	10.961	11.034	VV	5638	108033	3.38%	0.272%
166	11.046	11.034	11.091	VV	1211	31198	0.98%	0.079%
167	11.120	11.091	11.125	VV	864	15618	0.49%	0.039%
168	11.132	11.125	11.150	VV	926	12513	0.39%	0.032%
169	11.171	11.150	11.183	VV	1940	28073	0.88%	0.071%
170	11.196	11.183	11.226	VV	1959	35793	1.12%	0.090%
171	11.246	11.226	11.283	VV	2193	45294	1.42%	0.114%
172	11.322	11.283	11.365	VV	2109	60248	1.89%	0.152%
173	11.376	11.365	11.393	VV	893	13914	0.44%	0.035%
174	11.398	11.393	11.410	VV	858	7977	0.25%	0.020%
175	11.455	11.410	11.462	VV	1050	27478	0.86%	0.069%
176	11.481	11.462	11.501	VV	1338	24751	0.78%	0.062%
177	11.528	11.501	11.544	VV	1027	22937	0.72%	0.058%
178	11.560	11.544	11.577	VV	1213	21452	0.67%	0.054%
179	11.628	11.577	11.679	VV	277581	3192139	100.00%	8.048%
180	11.717	11.679	11.753	VV	3377	83229	2.61%	0.210%
181	11.784	11.753	11.806	VV	1071	28229	0.88%	0.071%
182	11.823	11.806	11.848	VV	1273	23929	0.75%	0.060%
183	11.884	11.848	11.903	VV	1689	36935	1.16%	0.093%
184	11.913	11.903	11.928	VV	1211	16671	0.52%	0.042%
185	11.942	11.928	11.957	VV	1277	19703	0.62%	0.050%
186	11.976	11.957	11.990	VV	1365	21360	0.67%	0.054%
187	12.005	11.990	12.026	VV	1463	24610	0.77%	0.062%
188	12.043	12.026	12.063	VV	1380	24603	0.77%	0.062%
189	12.073	12.063	12.089	VV	1024	15335	0.48%	0.039%
190	12.122	12.089	12.141	VV	1366	34674	1.09%	0.087%
191	12.155	12.141	12.206	VV	1171	34731	1.09%	0.088%
192	12.210	12.206	12.214	VV	729	3484	0.11%	0.009%
193	12.229	12.214	12.244	VV	895	14502	0.45%	0.037%
194	12.279	12.244	12.327	VV	1984	63964	2.00%	0.161%

					rteres			
195	12.332	12.327	12.335	VV	915	4024	0.13%	0.010%
196	12.346	12.335	12.364	VV	1022	16231	0.51%	0.041%
197	12.389	12.364	12.440	VV	1966	57935	1.81%	0.146%
198	12.452	12.440	12.472	VV	995	16879	0.53%	0.043%
199	12.479	12.472	12.485	VV	833	6143	0.19%	0.015%
200	12.512	12.485	12.516	VV	1445	20952	0.66%	0.053%
201	12.545	12.516	12.610	VV	78298	976331	30.59%	2.462%
202	12.627	12.610	12.641	VV	2653	41280	1.29%	0.104%
203	12.654	12.641	12.694	VV	2172	54757	1.72%	0.138%
204	12.719	12.694	12.742	VV	1612	38473	1.21%	0.097%
205	12.765	12.742	12.782	VV	1904	34997	1.10%	0.088%
206	12.786	12.782	12.810	VV	1438	20298	0.64%	0.051%
207	12.821	12.810	12.830	VV	979	10595	0.33%	0.027%
208	12.871	12.830	12.900	VV	2386	62879	1.97%	0.159%
209	12.941	12.900	12.976	VV	261732	3091487	96.85%	7.795%
210	13.016	12.976	13.046	VV	4307	94415	2.96%	0.238%
211	13.060	13.046	13.064	VV	856	8886	0.28%	0.022%
212	13.081	13.064	13.115	VV	924	24713	0.77%	0.062%
213	13.122	13.115	13.129	VV	810	6652	0.21%	0.017%
214	13.144	13.129	13.153	VV	876	11591	0.36%	0.029%
215	13.177	13.153	13.207	VV	1331	34559	1.08%	0.087%
216	13.211	13.207	13.268	VV	896	26717	0.84%	0.067%
217	13.291	13.268	13.313	VV	1512	26315	0.82%	0.066%
218	13.337	13.313	13.371	VV	1470	35686	1.12%	0.090%
219	13.384	13.371	13.411	VV	1142	21688	0.68%	0.055%
220	13.439	13.411	13.462	VV	1104	28754	0.90%	0.072%
221	13.466	13.462	13.490	VV	928	14132	0.44%	0.036%
222	13.498	13.490	13.530	VV	909	16536	0.52%	0.042%
223	13.564	13.530	13.591	VV	3044	66406	2.08%	0.167%
224	13.615	13.591	13.688	VV	3832	114984	3.60%	0.290%
225	13.693	13.688	13.705	VV	1208	11008	0.34%	0.028%
226	13.724	13.705	13.736	VV	1374	22919	0.72%	0.058%
227	13.775	13.736	13.863	VV	15741	265122	8.31%	0.668%
228	13.874	13.863	13.877	VV	1089	8883	0.28%	0.022%
229	13.881	13.877	13.919	VV	1123	22174	0.69%	0.056%
230	13.959	13.919	13.968	VV	1261	28861	0.90%	0.073%
231	13.984	13.968	14.022	VV	1649	37874	1.19%	0.095%
232	14.028	14.022	14.043	VV	904	9835	0.31%	0.025%
233	14.089	14.043	14.106	VV	1510	41163	1.29%	0.104%
234	14.140	14.106	14.186	VV	240958	3027125	94.83%	7.632%
235	14.197	14.186	14.217	VV	792	12297	0.39%	0.031%
236	14.232	14.217	14.243	VV	786	11161	0.35%	0.028%
237	14.259	14.243	14.282	VV	881	16879	0.53%	0.043%
238	14.288	14.282	14.320	VV	632	11274	0.35%	0.028%
239	14.345	14.320	14.350	VV	660	9148	0.29%	0.023%
240	14.373	14.350	14.415	VV	866	26763	0.84%	0.067%
241	14.430	14.415	14.451	VV	529	10951	0.34%	0.028%
242	14.454	14.451	14.465	VV	501	3628	0.11%	0.009%
243	14.501	14.465	14.511	VV	803	16931	0.53%	0.043%
244	14.529	14.511	14.591	VV	1611	43568	1.36%	0.110%
245	14.600	14.591	14.624	VV	660	11881	0.37%	0.030%
246	14.629	14.624	14.635	VV	614	3849	0.12%	0.010%

					rteres			
247	14.652	14.635	14.673	VV	599	11451	0.36%	0.029%
248	14.702	14.673	14.730	VV	6169	87487	2.74%	0.221%
249	14.758	14.730	14.786	VV	2282	41403	1.30%	0.104%
250	14.798	14.786	14.838	VV	868	21871	0.69%	0.055%
251	14.860	14.838	14.886	VV	734	14822	0.46%	0.037%
252	14.894	14.886	14.900	VV	385	2709	0.08%	0.007%
253	14.922	14.900	14.950	VV	720	14654	0.46%	0.037%
254	14.960	14.950	14.978	VV	427	6970	0.22%	0.018%
255	14.984	14.978	15.004	VV	416	5089	0.16%	0.013%
256	15.040	15.004	15.075	VV	84479	1161065	36.37%	2.927%
257	15.084	15.075	15.115	VV	935	15108	0.47%	0.038%
258	15.120	15.115	15.123	VV	343	1484	0.05%	0.004%
259	15.143	15.123	15.160	VV	421	7795	0.24%	0.020%
260	15.169	15.160	15.179	VV	459	4520	0.14%	0.011%
261	15.246	15.179	15.276	VV	226213	3042069	95.30%	7.670%
262	15.288	15.276	15.323	VV	2421	31239	0.98%	0.079%
263	15.334	15.323	15.360	VV	306	5208	0.16%	0.013%
264	15.372	15.360	15.377	VV	217	1883	0.06%	0.005%
265	15.382	15.377	15.416	VV	200	2817	0.09%	0.007%
266	15.439	15.416	15.463	PV	152	2641	0.08%	0.007%
267	15.478	15.463	15.500	VV	194	2453	0.08%	0.006%
268	15.508	15.500	15.515	VV	149	802	0.03%	0.002%
269	15.537	15.515	15.552	VV	144	2152	0.07%	0.005%
270	15.579	15.552	15.591	VV	257	3252	0.10%	0.008%
271	15.620	15.591	15.736	VV	34890	526073	16.48%	1.326%
272	15.765	15.736	15.800	VV	11864	160640	5.03%	0.405%
273	15.838	15.800	15.873	VV	4109	64125	2.01%	0.162%
274	15.889	15.873	15.918	VV	441	7187	0.23%	0.018%
275	15.924	15.918	15.928	VV	91	434	0.01%	0.001%
276	15.938	15.928	15.942	VV	130	829	0.03%	0.002%
277	15.959	15.942	15.964	VV	129	1482	0.05%	0.004%
278	15.985	15.964	16.011	VV	251	5073	0.16%	0.013%
279	16.017	16.011	16.030	VV	209	2158	0.07%	0.005%
280	16.047	16.030	16.052	VV	418	3811	0.12%	0.010%
281	16.056	16.052	16.065	VV	404	2643	0.08%	0.007%
282	16.086	16.065	16.113	VV	510	8310	0.26%	0.021%
283	16.139	16.113	16.197	VV	1007	21605	0.68%	0.054%
284	16.268	16.197	16.311	VV	227880	2987381	93.59%	7.532%
285	16.328	16.311	16.347	VV	468	6224	0.19%	0.016%
286	16.352	16.347	16.374	VV	129	1047	0.03%	0.003%
287	16.379	16.374	16.391	VV	81	379	0.01%	0.001%
288	16.418	16.391	16.426	VV	192	2438	0.08%	0.006%
289	16.431	16.426	16.435	VV	131	584	0.02%	0.001%
290	16.451	16.435	16.473	VV	340	5739	0.18%	0.014%
291	16.478	16.473	16.520	VV	189	2562	0.08%	0.006%
292	16.524	16.520	16.533	VV	81	367	0.01%	0.001%
293	16.576	16.533	16.598	PV	673	14546	0.46%	0.037%
294	16.603	16.598	16.607	VV	233	1054	0.03%	0.003%
295	16.637	16.607	16.682	VV	2664	52277	1.64%	0.132%
296	16.749	16.682	16.783	VV	13296	204074	6.39%	0.515%
297	16.827	16.783	16.850	VV	1130	20000	0.63%	0.050%
298	16.879	16.850	16.907	VV	640	12219	0.38%	0.031%
299	16.914	16.907	16.932	VV	221	2194	0.07%	0.006%

					rterres				
300	16.949	16.932	16.965	VV	164	2316	0.07%	0.006%	
301	17.007	16.965	17.018	VV	813	9408	0.29%	0.024%	
302	17.051	17.018	17.080	VV	881	17879	0.56%	0.045%	
303	17.105	17.080	17.143	VV	858	20288	0.64%	0.051%	
304	17.149	17.143	17.154	VV	408	2563	0.08%	0.006%	
305	17.217	17.154	17.250	VV	212658	2930259	91.80%	7.388%	
306	17.267	17.250	17.330	VV	3331	58201	1.82%	0.147%	
					Sum of corrected areas:	39661508			

FG111324.M Mon Nov 18 06:41:39 2024

Report of Analysis

Client:	ENTACT	Date Collected:	11/13/24
Project:	North Point	Date Received:	11/13/24
Client Sample ID:	EX-4-TPH-6MSD	SDG No.:	P4839
Lab Sample ID:	P4839-22MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.5
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF015087.D	1	11/16/24 08:20	11/18/24 15:47	PB165028

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	8330		206	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	16.5		37 - 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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
 Data File : FF015087.D
 Signal(s) : FID2B.ch
 Acq On : 18 Nov 2024 15:47
 Operator : YP\AJ
 Sample : P4839-22MSD
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 EX-4-TPH-6MSD

Integration File: autoint1.e
 Quant Time: Nov 19 00:22:59 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
 Quant Title :
 QLast Update : Wed Nov 13 12:50:15 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	1818876	16.502 ug/ml
Target Compounds			
2) N-DECANE	4.569	1938491	14.716 ug/ml
3) N-DODECANE	6.730	1944503	14.486 ug/ml
4) N-TETRADECANE	8.554	1967809	15.242 ug/ml
5) N-HEXADECANE	10.161	1945792	15.006 ug/ml
6) N-OCTADECANE	11.603	1961329	14.871 ug/ml
7) N-EICOSANE	12.913	1959164	15.411 ug/ml
8) N-DOCOSANE	14.112	1881236	15.216 ug/ml
10) N-TETRACOSANE	15.214	1889337	15.552 ug/ml
11) N-HEXACOSANE	16.235	1886336	15.993 ug/ml
12) N-OCTACOSANE	17.185	1832766	15.887 ug/ml

(f)=RT Delta > 1/2 Window

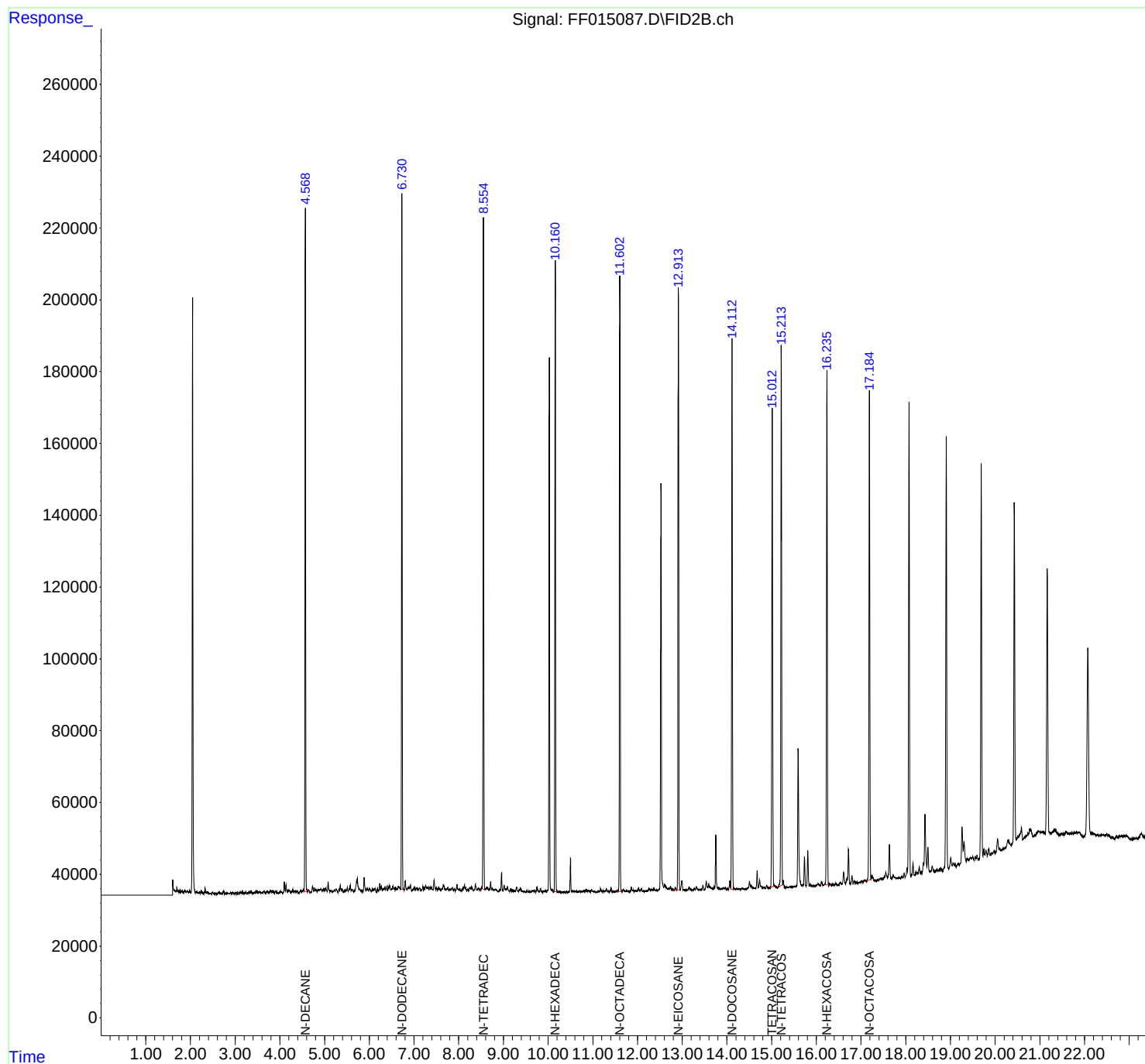
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015087.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 15:47
Operator : YP\AJ
Sample : P4839-22MSD
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-6MSD

Integration File: autoint1.e
Quant Time: Nov 19 00:22:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Quant Title :
QLast Update : Wed Nov 13 12:50:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111824\
Data File : FF015087.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 15:47
Sample : P4839-22MSD
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF111324.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.464	4.420	4.494	BV	830	16000	0.80%	0.053%
2	4.520	4.494	4.535	VV	809	15400	0.77%	0.051%
3	4.569	4.535	4.600	VV	190685	1950034	97.19%	6.478%
4	4.604	4.600	4.622	VV	953	7871	0.39%	0.026%
5	4.641	4.622	4.674	VV	894	15376	0.77%	0.051%
6	4.698	4.674	4.702	VV	254	2995	0.15%	0.010%
7	4.732	4.702	4.765	VV	1845	34245	1.71%	0.114%
8	4.780	4.765	4.795	VV	1384	17957	0.89%	0.060%
9	4.808	4.795	4.834	VV	918	17019	0.85%	0.057%
10	4.853	4.834	4.865	VV	976	13417	0.67%	0.045%
11	4.879	4.865	4.899	VV	932	17477	0.87%	0.058%
12	4.912	4.899	4.923	VV	1010	12762	0.64%	0.042%
13	4.927	4.923	4.945	VV	948	10038	0.50%	0.033%
14	4.982	4.945	5.000	VV	1089	27049	1.35%	0.090%
15	5.029	5.000	5.053	VV	1312	28071	1.40%	0.093%
16	5.080	5.053	5.118	VV	3063	46998	2.34%	0.156%
17	5.136	5.118	5.169	VV	658	14433	0.72%	0.048%
18	5.183	5.169	5.197	VV	498	5834	0.29%	0.019%
19	5.218	5.197	5.234	VV	788	13297	0.66%	0.044%
20	5.252	5.234	5.267	VV	1108	16394	0.82%	0.054%
21	5.270	5.267	5.299	VV	901	9336	0.47%	0.031%
22	5.322	5.299	5.337	VV	1027	14206	0.71%	0.047%
23	5.350	5.337	5.366	VV	2153	24760	1.23%	0.082%
24	5.372	5.366	5.382	VV	972	8155	0.41%	0.027%
25	5.387	5.382	5.421	VV	890	14546	0.72%	0.048%
26	5.445	5.421	5.463	VV	695	11713	0.58%	0.039%
27	5.475	5.463	5.489	VV	881	10078	0.50%	0.033%
28	5.507	5.489	5.531	VV	1501	21215	1.06%	0.070%
29	5.551	5.531	5.560	VV	1148	15751	0.79%	0.052%
30	5.574	5.560	5.597	VV	2113	30247	1.51%	0.100%
31	5.609	5.597	5.656	VV	971	23047	1.15%	0.077%
32	5.674	5.656	5.685	VV	729	9333	0.47%	0.031%
33	5.717	5.685	5.724	VV	3482	52568	2.62%	0.175%
34	5.734	5.724	5.766	VV	4061	60869	3.03%	0.202%
35	5.774	5.766	5.790	VV	1269	15625	0.78%	0.052%
36	5.795	5.790	5.812	VV	949	9555	0.48%	0.032%

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37	5.827	5.812	5.841	VV	739	10056	0.50%	0.033%
38	5.859	5.841	5.864	VV	539	6033	0.30%	0.020%
39	5.886	5.864	5.922	VV	4352	67246	3.35%	0.223%
40	5.941	5.922	5.951	VV	1298	16295	0.81%	0.054%
41	5.961	5.951	5.982	VV	1145	17161	0.86%	0.057%
42	6.004	5.982	6.047	VV	1224	31639	1.58%	0.105%
43	6.069	6.047	6.083	VV	1055	16656	0.83%	0.055%
44	6.087	6.083	6.102	VV	933	9489	0.47%	0.032%
45	6.116	6.102	6.125	VV	1176	13156	0.66%	0.044%
46	6.135	6.125	6.160	VV	1084	14154	0.71%	0.047%
47	6.184	6.160	6.201	VV	969	15220	0.76%	0.051%
48	6.234	6.201	6.254	VV	2591	41634	2.08%	0.138%
49	6.268	6.254	6.297	VV	1939	33727	1.68%	0.112%
50	6.326	6.297	6.331	VV	1074	20132	1.00%	0.067%
51	6.341	6.331	6.355	VV	1346	16163	0.81%	0.054%
52	6.377	6.355	6.400	VV	1830	33056	1.65%	0.110%
53	6.421	6.400	6.434	VV	1769	27446	1.37%	0.091%
54	6.454	6.434	6.486	VV	1947	44866	2.24%	0.149%
55	6.500	6.486	6.511	VV	1266	15673	0.78%	0.052%
56	6.527	6.511	6.550	VV	1898	33821	1.69%	0.112%
57	6.567	6.550	6.580	VV	1346	20715	1.03%	0.069%
58	6.589	6.580	6.598	VV	1211	11773	0.59%	0.039%
59	6.605	6.598	6.630	VV	1263	21736	1.08%	0.072%
60	6.654	6.630	6.668	VV	1757	33520	1.67%	0.111%
61	6.675	6.668	6.697	VV	1679	22823	1.14%	0.076%
62	6.730	6.697	6.765	VV	194781	1981912	98.78%	6.584%
63	6.768	6.765	6.782	VV	1028	9646	0.48%	0.032%
64	6.805	6.782	6.847	VV	3355	62264	3.10%	0.207%
65	6.861	6.847	6.873	VV	1449	18894	0.94%	0.063%
66	6.883	6.873	6.900	VV	1458	22380	1.12%	0.074%
67	6.920	6.900	6.948	VV	2116	38909	1.94%	0.129%
68	6.990	6.948	6.994	VV	1211	23569	1.17%	0.078%
69	7.011	6.994	7.035	VV	1701	29774	1.48%	0.099%
70	7.056	7.035	7.082	VV	1444	31440	1.57%	0.104%
71	7.096	7.082	7.105	VV	1063	13234	0.66%	0.044%
72	7.121	7.105	7.154	VV	1284	28631	1.43%	0.095%
73	7.202	7.154	7.218	VV	1765	40210	2.00%	0.134%
74	7.233	7.218	7.245	VV	1389	18922	0.94%	0.063%
75	7.262	7.245	7.283	VV	2093	36282	1.81%	0.121%
76	7.300	7.283	7.310	VV	1625	23338	1.16%	0.078%
77	7.319	7.310	7.336	VV	1623	20242	1.01%	0.067%
78	7.357	7.336	7.379	VV	1595	32461	1.62%	0.108%
79	7.394	7.379	7.426	VV	1616	32861	1.64%	0.109%
80	7.449	7.426	7.485	VV	3505	67109	3.34%	0.223%
81	7.503	7.485	7.524	VV	1503	25854	1.29%	0.086%
82	7.547	7.524	7.565	VV	1348	26432	1.32%	0.088%
83	7.574	7.565	7.605	VV	1216	21703	1.08%	0.072%
84	7.628	7.605	7.639	VV	1113	19791	0.99%	0.066%
85	7.655	7.639	7.667	VV	2239	29961	1.49%	0.100%
86	7.673	7.667	7.705	VV	1961	28370	1.41%	0.094%
87	7.721	7.705	7.734	VV	1117	16906	0.84%	0.056%
88	7.758	7.734	7.780	VV	1445	30136	1.50%	0.100%
89	7.806	7.780	7.830	VV	1070	26004	1.30%	0.086%

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90	7.852	7.830	7.880	VV	1405	31400	1.56%	0.104%
91	7.902	7.880	7.922	VV	1079	19610	0.98%	0.065%
92	7.932	7.922	7.939	VV	721	6962	0.35%	0.023%
93	7.962	7.939	8.007	VV	2214	49742	2.48%	0.165%
94	8.011	8.007	8.043	VV	946	17106	0.85%	0.057%
95	8.047	8.043	8.067	VV	704	8933	0.45%	0.030%
96	8.106	8.067	8.117	VV	1545	33112	1.65%	0.110%
97	8.130	8.117	8.146	VV	2175	27797	1.39%	0.092%
98	8.157	8.146	8.180	VV	1386	21042	1.05%	0.070%
99	8.199	8.180	8.220	VV	926	17776	0.89%	0.059%
100	8.246	8.220	8.262	VV	1401	27814	1.39%	0.092%
101	8.267	8.262	8.273	VV	1194	7555	0.38%	0.025%
102	8.290	8.273	8.326	VV	1557	37351	1.86%	0.124%
103	8.330	8.326	8.343	VV	786	7015	0.35%	0.023%
104	8.375	8.343	8.411	VV	2293	52869	2.63%	0.176%
105	8.444	8.411	8.467	VV	1300	32777	1.63%	0.109%
106	8.476	8.467	8.494	VV	892	13899	0.69%	0.046%
107	8.513	8.494	8.525	VV	1544	21436	1.07%	0.071%
108	8.554	8.525	8.593	VV	188024	2006421	100.00%	6.666%
109	8.629	8.593	8.642	VV	1585	34846	1.74%	0.116%
110	8.652	8.642	8.670	VV	1384	18845	0.94%	0.063%
111	8.684	8.670	8.695	VV	960	13261	0.66%	0.044%
112	8.714	8.695	8.736	VV	2971	42314	2.11%	0.141%
113	8.751	8.736	8.765	VV	1326	17594	0.88%	0.058%
114	8.774	8.765	8.790	VV	934	11466	0.57%	0.038%
115	8.824	8.790	8.872	VV	1036	35287	1.76%	0.117%
116	8.887	8.872	8.898	VV	465	6229	0.31%	0.021%
117	8.917	8.898	8.933	VV	885	13543	0.67%	0.045%
118	8.959	8.933	8.997	VV	5563	75558	3.77%	0.251%
119	9.017	8.997	9.067	VV	2081	50553	2.52%	0.168%
120	9.093	9.067	9.114	VV	1713	31914	1.59%	0.106%
121	9.124	9.114	9.142	VV	599	8065	0.40%	0.027%
122	9.158	9.142	9.194	VV	1071	23789	1.19%	0.079%
123	9.205	9.194	9.225	VV	786	10820	0.54%	0.036%
124	9.239	9.225	9.266	VV	600	11126	0.55%	0.037%
125	9.293	9.266	9.333	VV	1516	31216	1.56%	0.104%
126	9.352	9.333	9.360	VV	648	7847	0.39%	0.026%
127	9.381	9.360	9.417	VV	1271	25783	1.29%	0.086%
128	9.428	9.417	9.458	VV	445	8056	0.40%	0.027%
129	9.463	9.458	9.487	VV	340	3789	0.19%	0.013%
130	9.502	9.487	9.508	VV	242	1913	0.10%	0.006%
131	9.528	9.508	9.550	VV	580	8400	0.42%	0.028%
132	9.567	9.550	9.597	VV	338	7075	0.35%	0.024%
133	9.600	9.597	9.607	VV	280	1378	0.07%	0.005%
134	9.613	9.607	9.625	VV	293	2402	0.12%	0.008%
135	9.645	9.625	9.654	VV	579	6842	0.34%	0.023%
136	9.665	9.654	9.688	VV	585	9136	0.46%	0.030%
137	9.703	9.688	9.725	VV	735	10301	0.51%	0.034%
138	9.749	9.725	9.785	VV	1504	28241	1.41%	0.094%
139	9.790	9.785	9.813	VV	385	4900	0.24%	0.016%
140	9.828	9.813	9.860	VV	1034	15467	0.77%	0.051%
141	9.864	9.860	9.873	VV	246	1540	0.08%	0.005%

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142	9.900	9.873	9.910	VV	474	7023	0.35%	0.023%
143	9.938	9.910	9.967	VV	628	13487	0.67%	0.045%
144	9.992	9.967	10.000	VV	781	9804	0.49%	0.033%
145	10.027	10.000	10.071	VV	148865	1540640	76.79%	5.118%
146	10.074	10.071	10.083	VV	713	4891	0.24%	0.016%
147	10.095	10.083	10.130	VV	807	14350	0.72%	0.048%
148	10.161	10.130	10.209	VV	175912	1957649	97.57%	6.504%
149	10.217	10.209	10.235	VV	266	3066	0.15%	0.010%
150	10.240	10.235	10.245	VV	194	963	0.05%	0.003%
151	10.265	10.245	10.287	VV	358	5116	0.25%	0.017%
152	10.304	10.287	10.309	VV	128	937	0.05%	0.003%
153	10.314	10.309	10.318	VV	190	613	0.03%	0.002%
154	10.331	10.318	10.364	VV	207	2590	0.13%	0.009%
155	10.372	10.364	10.412	VV	186	2350	0.12%	0.008%
156	10.436	10.412	10.447	PV	134	1628	0.08%	0.005%
157	10.461	10.447	10.473	VV	203	1749	0.09%	0.006%
158	10.500	10.473	10.528	VV	9496	104276	5.20%	0.346%
159	10.546	10.528	10.566	VV	577	8920	0.44%	0.030%
160	10.579	10.566	10.588	VV	374	4238	0.21%	0.014%
161	10.602	10.588	10.617	VV	366	4880	0.24%	0.016%
162	10.629	10.617	10.660	VV	368	4809	0.24%	0.016%
163	10.682	10.660	10.698	VV	382	5316	0.26%	0.018%
164	10.716	10.698	10.730	VV	313	4555	0.23%	0.015%
165	10.739	10.730	10.762	VV	286	4719	0.24%	0.016%
166	10.785	10.762	10.796	VV	485	6639	0.33%	0.022%
167	10.804	10.796	10.809	VV	342	2099	0.10%	0.007%
168	10.825	10.809	10.838	VV	506	5995	0.30%	0.020%
169	10.853	10.838	10.875	VV	846	11631	0.58%	0.039%
170	10.879	10.875	10.885	VV	383	2030	0.10%	0.007%
171	10.899	10.885	10.935	VV	742	13065	0.65%	0.043%
172	10.943	10.935	10.949	VV	204	1580	0.08%	0.005%
173	10.973	10.949	10.989	VV	732	11149	0.56%	0.037%
174	10.995	10.989	11.012	VV	381	4413	0.22%	0.015%
175	11.021	11.012	11.028	VV	289	2259	0.11%	0.008%
176	11.032	11.028	11.068	VV	351	3910	0.19%	0.013%
177	11.078	11.068	11.096	PV	127	1370	0.07%	0.005%
178	11.100	11.096	11.105	VV	97	457	0.02%	0.002%
179	11.116	11.105	11.130	VV	298	2996	0.15%	0.010%
180	11.138	11.130	11.143	VV	290	2018	0.10%	0.007%
181	11.172	11.143	11.196	VV	1126	17185	0.86%	0.057%
182	11.201	11.196	11.205	VV	244	1043	0.05%	0.003%
183	11.225	11.205	11.242	VV	439	6626	0.33%	0.022%
184	11.246	11.242	11.251	VV	141	610	0.03%	0.002%
185	11.275	11.251	11.285	VV	441	5156	0.26%	0.017%
186	11.303	11.285	11.322	VV	999	13329	0.66%	0.044%
187	11.328	11.322	11.372	VV	351	5328	0.27%	0.018%
188	11.377	11.372	11.385	VV	154	855	0.04%	0.003%
189	11.406	11.385	11.445	VV	1232	17937	0.89%	0.060%
190	11.457	11.445	11.480	VV	207	2790	0.14%	0.009%
191	11.484	11.480	11.494	VV	104	566	0.03%	0.002%
192	11.534	11.494	11.559	VV	361	7710	0.38%	0.026%
193	11.603	11.559	11.657	VV	171055	1968393	98.10%	6.539%
194	11.678	11.657	11.726	VV	699	14814	0.74%	0.049%

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195	11.733	11.726	11.737	VV	119	644	0.03%	0.002%
196	11.763	11.737	11.781	VV	346	5454	0.27%	0.018%
197	11.797	11.781	11.824	VV	331	3957	0.20%	0.013%
198	11.859	11.824	11.884	PV	1292	19689	0.98%	0.065%
199	11.901	11.884	11.931	VV	388	8373	0.42%	0.028%
200	11.937	11.931	11.943	VV	200	1400	0.07%	0.005%
201	11.957	11.943	11.971	VV	338	3624	0.18%	0.012%
202	12.021	11.971	12.044	VV	1153	21219	1.06%	0.070%
203	12.047	12.044	12.052	VV	258	1174	0.06%	0.004%
204	12.086	12.052	12.113	VV	871	15961	0.80%	0.053%
205	12.123	12.113	12.131	VV	151	1235	0.06%	0.004%
206	12.132	12.131	12.139	VV	150	395	0.02%	0.001%
207	12.156	12.139	12.168	VV	155	1443	0.07%	0.005%
208	12.172	12.168	12.176	VV	87	364	0.02%	0.001%
209	12.201	12.176	12.226	VV	211	4658	0.23%	0.015%
210	12.263	12.226	12.297	VV	791	20604	1.03%	0.068%
211	12.323	12.297	12.344	VV	640	11424	0.57%	0.038%
212	12.367	12.344	12.401	VV	961	16982	0.85%	0.056%
213	12.405	12.401	12.418	VV	243	2212	0.11%	0.007%
214	12.431	12.418	12.459	VV	433	6584	0.33%	0.022%
215	12.482	12.459	12.491	VV	625	8104	0.40%	0.027%
216	12.524	12.491	12.581	VV	113098	1422337	70.89%	4.725%
217	12.601	12.581	12.618	VV	1940	31302	1.56%	0.104%
218	12.628	12.618	12.679	VV	1419	34232	1.71%	0.114%
219	12.698	12.679	12.716	VV	768	14148	0.71%	0.047%
220	12.737	12.716	12.806	VV	1261	31174	1.55%	0.104%
221	12.811	12.806	12.814	VV	211	841	0.04%	0.003%
222	12.844	12.814	12.874	VV	909	18141	0.90%	0.060%
223	12.913	12.874	12.949	VV	167954	1960188	97.70%	6.512%
224	12.990	12.949	13.018	VV	2669	54347	2.71%	0.181%
225	13.032	13.018	13.051	VV	283	4269	0.21%	0.014%
226	13.054	13.051	13.064	VV	176	1413	0.07%	0.005%
227	13.069	13.064	13.078	VV	193	1142	0.06%	0.004%
228	13.083	13.078	13.091	VV	127	770	0.04%	0.003%
229	13.105	13.091	13.109	VV	119	1050	0.05%	0.003%
230	13.116	13.109	13.128	VV	190	1805	0.09%	0.006%
231	13.152	13.128	13.196	VV	989	21206	1.06%	0.070%
232	13.200	13.196	13.212	VV	234	1591	0.08%	0.005%
233	13.216	13.212	13.231	VV	216	1822	0.09%	0.006%
234	13.234	13.231	13.244	VV	152	917	0.05%	0.003%
235	13.268	13.244	13.293	VV	698	9391	0.47%	0.031%
236	13.313	13.293	13.345	VV	1100	20573	1.03%	0.068%
237	13.359	13.345	13.365	VV	327	3110	0.16%	0.010%
238	13.367	13.365	13.386	VV	273	1978	0.10%	0.007%
239	13.461	13.386	13.497	VV	1403	25955	1.29%	0.086%
240	13.536	13.497	13.561	VV	2435	44868	2.24%	0.149%
241	13.566	13.561	13.569	VV	765	3857	0.19%	0.013%
242	13.590	13.569	13.616	VV	1769	32422	1.62%	0.108%
243	13.622	13.616	13.691	VV	902	25900	1.29%	0.086%
244	13.716	13.691	13.728	VV	994	14559	0.73%	0.048%
245	13.749	13.728	13.845	VV	15350	199703	9.95%	0.663%
246	13.857	13.845	13.862	VV	284	2840	0.14%	0.009%

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247	13.867	13.862	13.881	VV	317	2980	0.15%	0.010%
248	13.902	13.881	13.909	VV	462	5468	0.27%	0.018%
249	13.928	13.909	13.937	VV	558	7410	0.37%	0.025%
250	13.953	13.937	14.010	VV	581	14750	0.74%	0.049%
251	14.014	14.010	14.018	VV	239	800	0.04%	0.003%
252	14.063	14.018	14.080	VV	2432	35010	1.74%	0.116%
253	14.112	14.080	14.161	VV	153478	1888022	94.10%	6.272%
254	14.171	14.161	14.185	VV	286	3227	0.16%	0.011%
255	14.207	14.185	14.229	VV	310	5459	0.27%	0.018%
256	14.232	14.229	14.259	VV	174	2158	0.11%	0.007%
257	14.267	14.259	14.291	VV	242	2224	0.11%	0.007%
258	14.293	14.291	14.299	VV	131	503	0.03%	0.002%
259	14.335	14.299	14.341	VV	288	4588	0.23%	0.015%
260	14.348	14.341	14.399	VV	292	6572	0.33%	0.022%
261	14.406	14.399	14.415	VV	75	504	0.03%	0.002%
262	14.419	14.415	14.429	PV	74	331	0.02%	0.001%
263	14.476	14.429	14.480	VV	443	6422	0.32%	0.021%
264	14.502	14.480	14.527	VV	2142	35830	1.79%	0.119%
265	14.544	14.527	14.574	VV	1102	20781	1.04%	0.069%
266	14.577	14.574	14.608	VV	397	6182	0.31%	0.021%
267	14.625	14.608	14.647	VV	288	4983	0.25%	0.017%
268	14.674	14.647	14.697	VV	5038	65494	3.26%	0.218%
269	14.730	14.697	14.757	VV	2413	42382	2.11%	0.141%
270	14.770	14.757	14.806	VV	704	13493	0.67%	0.045%
271	14.830	14.806	14.846	VV	405	6727	0.34%	0.022%
272	14.849	14.846	14.855	VV	224	1011	0.05%	0.003%
273	14.890	14.855	14.922	VV	897	14530	0.72%	0.048%
274	14.938	14.922	14.943	VV	269	2173	0.11%	0.007%
275	14.946	14.943	14.968	VV	247	2233	0.11%	0.007%
276	15.011	14.968	15.049	VV	132909	1838098	91.61%	6.107%
277	15.058	15.049	15.099	VV	828	15691	0.78%	0.052%
278	15.102	15.099	15.127	VV	325	4086	0.20%	0.014%
279	15.214	15.127	15.244	VV	151231	1925074	95.95%	6.396%
280	15.259	15.244	15.309	VV	2075	31863	1.59%	0.106%
281	15.314	15.309	15.337	VV	202	2152	0.11%	0.007%
282	15.345	15.337	15.360	VV	135	1452	0.07%	0.005%
283	15.365	15.360	15.381	VV	165	1302	0.06%	0.004%
284	15.409	15.381	15.436	VV	365	6340	0.32%	0.021%
285	15.476	15.436	15.481	PV	200	2815	0.14%	0.009%
286	15.487	15.481	15.492	VV	197	1150	0.06%	0.004%
287	15.548	15.492	15.558	VV	318	9554	0.48%	0.032%
288	15.591	15.558	15.674	VV	38662	623177	31.06%	2.070%
289	15.688	15.674	15.702	VV	558	7970	0.40%	0.026%
290	15.733	15.702	15.771	VV	8377	118194	5.89%	0.393%
291	15.807	15.771	15.842	VV	10099	145316	7.24%	0.483%
292	15.864	15.842	15.895	VV	619	12133	0.60%	0.040%
293	15.900	15.895	15.940	VV	198	3501	0.17%	0.012%
294	15.988	15.940	15.994	PV	204	3600	0.18%	0.012%
295	16.032	15.994	16.085	VV	597	19240	0.96%	0.064%
296	16.115	16.085	16.175	VV	1104	26208	1.31%	0.087%
297	16.196	16.175	16.200	VV	633	6765	0.34%	0.022%
298	16.235	16.200	16.276	VV	143313	1894498	94.42%	6.294%
299	16.301	16.276	16.344	VV	476	9866	0.49%	0.033%

					rters			
300	16.375	16.344	16.391	VV	233	3899	0.19%	0.013%
301	16.429	16.391	16.491	VV	555	10584	0.53%	0.035%
302	16.532	16.491	16.568	PV	784	15639	0.78%	0.052%
303	16.608	16.568	16.652	VV	3380	65624	3.27%	0.218%
304	16.680	16.652	16.693	VV	1529	24038	1.20%	0.080%
305	16.718	16.693	16.763	VV	9736	138154	6.89%	0.459%
306	16.797	16.763	16.825	PV	2152	32107	1.60%	0.107%
307	16.847	16.825	16.888	VV	726	11068	0.55%	0.037%
308	16.896	16.888	16.903	VV	154	840	0.04%	0.003%
309	16.951	16.903	16.966	VV	124	2576	0.13%	0.009%
310	17.018	16.966	17.042	PV	466	10461	0.52%	0.035%
311	17.072	17.042	17.107	VV	475	10981	0.55%	0.036%
312	17.185	17.107	17.219	VV	135825	1856550	92.53%	6.168%
313	17.235	17.219	17.250	VV	1534	19932	0.99%	0.066%
314	17.261	17.250	17.301	VBA	982	14380	0.72%	0.048%
				Sum of corrected areas:		30100213		

FF111324.M Tue Nov 19 01:27:05 2024

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
P4839-21		FF015080.D	FF111824	TETRACOSANE-d50 (SURROGA	 	 	Peak Integrated by Software incorrectly

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
100 TRPH STD		FG014764.D	FG111324	N-TETRACONTANE	Ankita	11/14/2024 11:06:15 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
P4810-01MS		FG014796.D	FG111524	N-HEXATRIACONTANE	Ankita	11/18/2024 10:47:59 AM	Peak Integrated by Software incorrectly
P4810-01MSD		FG014797.D	FG111524	N-HEXATRIACONTANE	Ankita	11/18/2024 10:48:00 AM	Peak Integrated by Software incorrectly
P4839-06		FG014809.D	FG111524	TETRACOSANE-d50 (SURROGA	Ankita	11/18/2024 10:48:02 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
P4839-10MS		FG014821.D	FG111624	TETRACOSANE-d50 (SURROGA	Ankita	11/18/2024 10:48:43 AM	Peak Integrated by Software incorrectly
P4839-01		FG014826.D	FG111624	TETRACOSANE-d50 (SURROGA	Ankita	11/18/2024 10:48:46 AM	Peak Integrated by Software incorrectly
P4839-12		FG014827.D	FG111624	TETRACOSANE-d50 (SURROGA	Ankita	11/18/2024 10:48:47 AM	Peak Integrated by Software incorrectly
P4839-15		FG014828.D	FG111624	TETRACOSANE-d50 (SURROGA	Ankita	11/18/2024 10:48:48 AM	Peak Integrated by Software incorrectly
P4839-16		FG014829.D	FG111624	TETRACOSANE-d50 (SURROGA	Ankita	11/18/2024 10:48:50 AM	Peak Integrated by Software incorrectly
P4839-17		FG014830.D	FG111624	TETRACOSANE-d50 (SURROGA	Ankita	11/18/2024 10:48:51 AM	Peak Integrated by Software incorrectly
P4839-20		FG014831.D	FG111624	TETRACOSANE-d50 (SURROGA	Ankita	11/18/2024 1:22:00 PM	Peak Integrated by Software incorrectly
.BLK		FG014832.D	FG111624	TETRACOSANE-d50 (SURROGA	Ankita	11/18/2024 10:48:52 AM	Peak Integrated by Software incorrectly
.BLK		FG014836.D	FG111624	TETRACOSANE-d50 (SURROGA	Ankita	11/18/2024 10:48:54 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
P4839-01		FG014842.D	FG111824	TETRACOSANE-d50 (SURROGA	 	 	Peak Integrated by Software incorrectly
P4839-15		FG014843.D	FG111824	TETRACOSANE-d50 (SURROGA	 	 	Peak Integrated by Software incorrectly
P4839-02		FG014846.D	FG111824	TETRACOSANE-d50 (SURROGA	 	 	Peak Integrated by Software incorrectly
.BLK		FG014847.D	FG111824	TETRACOSANE-d50 (SURROGA	 	 	Peak Integrated by Software incorrectly
P4839-05		FG014850.D	FG111824	TETRACOSANE-d50 (SURROGA	 	 	Peak Integrated by Software incorrectly
P4839-07		FG014852.D	FG111824	TETRACOSANE-d50 (SURROGA	 	 	Peak Integrated by Software incorrectly
P4839-12		FG014854.D	FG111824	TETRACOSANE-d50 (SURROGA	 	 	Peak Integrated by Software incorrectly
P4839-16		FG014855.D	FG111824	TETRACOSANE-d50 (SURROGA	 	 	Peak Integrated by Software incorrectly

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF111324

Review By	yogesh	Review On	11/13/2024 9:01:31 AM
Supervise By	Ankita	Supervise On	11/14/2024 11:06:10 AM
SubDirectory	FF111324	HP Acquire Method	HP Processing Method FF111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleID	Data File Name	Date-Time	Operator	Status
1	MECL2	FF015000.D	13 Nov 2024 09:05	YP\AJ	Ok
2	I.BLK	FF015001.D	13 Nov 2024 09:33	YP\AJ	Ok
3	100 TRPH STD	FF015002.D	13 Nov 2024 10:02	YP\AJ	Not Ok
4	50 TRPH STD	FF015003.D	13 Nov 2024 10:30	YP\AJ	Ok
5	20 TRPH STD	FF015004.D	13 Nov 2024 10:58	YP\AJ	Ok
6	10 TRPH STD	FF015005.D	13 Nov 2024 11:26	YP\AJ	Ok
7	5 TRPH STD	FF015006.D	13 Nov 2024 11:54	YP\AJ	Ok
8	100 TRPH STD	FF015007.D	13 Nov 2024 12:25	YP\AJ	Ok
9	FF111324ICV	FF015008.D	13 Nov 2024 12:53	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF111824

Review By	yogesh	Review On	11/18/2024 12:58:50 PM
Supervise By		Supervise On	
SubDirectory	FF111824	HP Acquire Method	HP Processing Method FF111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF015076.D	18 Nov 2024 08:19	YP\AJ	Ok
2	I.BLK	FF015077.D	18 Nov 2024 10:28	YP\AJ	Ok
3	50 PPM TRPH STD	FF015078.D	18 Nov 2024 10:56	YP\AJ	Ok
4	RT MARKER	FF015079.D	18 Nov 2024 11:24	YP\AJ	Ok
5	P4839-21	FF015080.D	18 Nov 2024 12:00	YP\AJ	Dilution
6	P4839-22	FF015081.D	18 Nov 2024 12:28	YP\AJ	Ok
7	I.BLK	FF015082.D	18 Nov 2024 12:57	YP\AJ	Ok
8	50 PPM TRPH STD	FF015083.D	18 Nov 2024 13:25	YP\AJ	Ok
9	PB165028BL	FF015084.D	18 Nov 2024 14:22	YP\AJ	Ok
10	PB165028BS	FF015085.D	18 Nov 2024 14:50	YP\AJ	Ok
11	P4839-22MS	FF015086.D	18 Nov 2024 15:18	YP\AJ	Ok
12	P4839-22MSD	FF015087.D	18 Nov 2024 15:47	YP\AJ	Ok
13	P4839-21	FF015088.D	18 Nov 2024 16:15	YP\AJ	Ok
14	I.BLK	FF015089.D	18 Nov 2024 16:43	YP\AJ	Ok
15	50 PPM TRPH STD	FF015090.D	18 Nov 2024 17:40	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111324

Review By	yogesh	Review On	11/13/2024 9:02:08 AM
Supervise By	Ankita	Supervise On	11/14/2024 11:06:20 AM
SubDirectory	FG111324	HP Acquire Method	HP Processing Method FG111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleID	Data File Name	Date-Time	Operator	Status
1	MECL2	FG014757.D	13 Nov 2024 08:37	YP\AJ	Ok
2	I.BLK	FG014758.D	13 Nov 2024 09:05	YP\AJ	Ok
3	100 TRPH STD	FG014759.D	13 Nov 2024 09:33	YP\AJ	Not Ok
4	50 TRPH STD	FG014760.D	13 Nov 2024 10:02	YP\AJ	Ok
5	20 TRPH STD	FG014761.D	13 Nov 2024 10:30	YP\AJ	Ok
6	10 TRPH STD	FG014762.D	13 Nov 2024 10:58	YP\AJ	Ok
7	5 TRPH STD	FG014763.D	13 Nov 2024 12:25	YP\AJ	Ok
8	100 TRPH STD	FG014764.D	13 Nov 2024 13:22	YP\AJ	Ok,M
9	FG111324ICV	FG014765.D	13 Nov 2024 14:00	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111524

Review By	yogesh	Review On	11/15/2024 11:08:18 AM
Supervise By	Ankita	Supervise On	11/18/2024 10:48:08 AM
SubDirectory	FG111524	HP Acquire Method	HP Processing Method FG111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23963 PP23962,PP23967		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG014789.D	15 Nov 2024 09:28	YP\AJ	Ok
2	I.BLK	FG014790.D	15 Nov 2024 09:56	YP\AJ	Ok
3	50 PPM TRPH STD	FG014791.D	15 Nov 2024 10:24	YP\AJ	Ok
4	RT MARKER	FG014792.D	15 Nov 2024 10:56	YP\AJ	Ok
5	PB164989BL	FG014793.D	15 Nov 2024 11:24	YP\AJ	Ok
6	PB164989BS	FG014794.D	15 Nov 2024 11:53	YP\AJ	Ok
7	P4810-01	FG014795.D	15 Nov 2024 12:21	YP\AJ	Ok
8	P4810-01MS	FG014796.D	15 Nov 2024 12:49	YP\AJ	Ok,M
9	P4810-01MSD	FG014797.D	15 Nov 2024 13:18	YP\AJ	Ok,M
10	I.BLK	FG014798.D	15 Nov 2024 13:46	YP\AJ	Ok
11	50 PPM TRPH STD	FG014799.D	15 Nov 2024 14:14	YP\AJ	Ok
12	I.BLK	FG014800.D	15 Nov 2024 15:11	YP\AJ	Ok
13	50 PPM TRPH STD	FG014801.D	15 Nov 2024 15:39	YP\AJ	Ok
14	RT MARKER	FG014802.D	15 Nov 2024 16:36	YP\AJ	Ok
15	PB164995BL	FG014803.D	15 Nov 2024 17:04	YP\AJ	Ok
16	PB164995BS	FG014804.D	15 Nov 2024 17:33	YP\AJ	Ok
17	P4839-02	FG014805.D	15 Nov 2024 18:01	YP\AJ	Dilution
18	P4839-03	FG014806.D	15 Nov 2024 18:30	YP\AJ	Dilution
19	P4839-04	FG014807.D	15 Nov 2024 18:58	YP\AJ	Ok
20	P4839-05	FG014808.D	15 Nov 2024 19:26	YP\AJ	Dilution
21	P4839-06	FG014809.D	15 Nov 2024 19:55	YP\AJ	Dilution

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111524

Review By	yogesh	Review On	11/15/2024 11:08:18 AM
Supervise By	Ankita	Supervise On	11/18/2024 10:48:08 AM
SubDirectory	FG111524	HP Acquire Method	HP Processing Method FG111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

22	P4839-07	FG014810.D	15 Nov 2024 20:23	YP\AJ	Dilution
23	P4839-08	FG014811.D	15 Nov 2024 20:51	YP\AJ	Ok
24	P4839-09	FG014812.D	15 Nov 2024 21:20	YP\AJ	Dilution
25	P4839-10	FG014813.D	15 Nov 2024 21:48	YP\AJ	Not Ok
26	I.BLK	FG014814.D	15 Nov 2024 22:17	YP\AJ	Ok
27	50 PPM TRPH STD	FG014815.D	15 Nov 2024 22:45	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111624

Review By	yogesh	Review On	11/16/2024 10:33:20 AM
Supervise By	Ankita	Supervise On	11/18/2024 10:48:59 AM
SubDirectory	FG111624	HP Acquire Method	HP Processing Method FG111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG014816.D	16 Nov 2024 10:35	YP\AJ	Ok
2	I.BLK	FG014817.D	16 Nov 2024 11:03	YP\AJ	Ok
3	50 PPM TRPH STD	FG014818.D	16 Nov 2024 11:31	YP\AJ	Ok
4	RT MARKER	FG014819.D	16 Nov 2024 11:59	YP\AJ	Ok
5	P4839-10	FG014820.D	16 Nov 2024 12:28	YP\AJ	Ok
6	P4839-10MS	FG014821.D	16 Nov 2024 12:56	YP\AJ	Ok,M
7	P4839-10MSD	FG014822.D	16 Nov 2024 13:25	YP\AJ	Ok
8	P4839-11	FG014823.D	16 Nov 2024 13:53	YP\AJ	Dilution
9	P4839-13	FG014824.D	16 Nov 2024 14:21	YP\AJ	Dilution
10	P4839-14	FG014825.D	16 Nov 2024 14:50	YP\AJ	Ok
11	P4839-01	FG014826.D	16 Nov 2024 15:18	YP\AJ	Dilution
12	P4839-12	FG014827.D	16 Nov 2024 15:46	YP\AJ	Ok,M
13	P4839-15	FG014828.D	16 Nov 2024 16:15	YP\AJ	Dilution
14	P4839-16	FG014829.D	16 Nov 2024 16:43	YP\AJ	Ok,M
15	P4839-17	FG014830.D	16 Nov 2024 17:11	YP\AJ	Not Ok
16	P4839-20	FG014831.D	16 Nov 2024 17:40	YP\AJ	Not Ok
17	I.BLK	FG014832.D	16 Nov 2024 18:08	YP\AJ	Ok,M
18	50 PPM TRPH STD	FG014833.D	16 Nov 2024 18:37	YP\AJ	Ok
19	P4839-18	FG014834.D	16 Nov 2024 19:33	YP\AJ	Ok
20	P4839-19	FG014835.D	16 Nov 2024 20:02	YP\AJ	Ok
21	I.BLK	FG014836.D	16 Nov 2024 20:30	YP\AJ	Ok,M

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111624

Review By	yogesh	Review On	11/16/2024 10:33:20 AM
Supervise By	Ankita	Supervise On	11/18/2024 10:48:59 AM
SubDirectory	FG111624	HP Acquire Method	HP Processing Method FG111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

22	50 PPM TRPH STD	FG014837.D	16 Nov 2024 21:26	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111824

Review By	yogesh	Review On	11/18/2024 12:59:34 PM
Supervise By		Supervise On	
SubDirectory	FG111824	HP Acquire Method	HP Processing Method FG111824
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG014838.D	18 Nov 2024 08:19	YP\AJ	Ok
2	I.BLK	FG014839.D	18 Nov 2024 08:47	YP\AJ	Ok
3	50 PPM TRPH STD	FG014840.D	18 Nov 2024 09:15	YP\AJ	Ok
4	RT MARKER	FG014841.D	18 Nov 2024 09:48	YP\AJ	Ok
5	P4839-01	FG014842.D	18 Nov 2024 10:28	YP\AJ	Ok,NS
6	P4839-15	FG014843.D	18 Nov 2024 10:56	YP\AJ	Ok,NS
7	P4839-11	FG014844.D	18 Nov 2024 11:24	YP\AJ	Ok
8	P4839-13	FG014845.D	18 Nov 2024 12:00	YP\AJ	Ok
9	P4839-02	FG014846.D	18 Nov 2024 12:28	YP\AJ	Ok,NS
10	I.BLK	FG014847.D	18 Nov 2024 12:57	YP\AJ	Ok,NS
11	50 PPM TRPH STD	FG014848.D	18 Nov 2024 13:25	YP\AJ	Ok
12	P4839-03	FG014849.D	18 Nov 2024 13:53	YP\AJ	Ok
13	P4839-05	FG014850.D	18 Nov 2024 14:22	YP\AJ	Ok,NS
14	P4839-06	FG014851.D	18 Nov 2024 14:50	YP\AJ	Ok
15	P4839-07	FG014852.D	18 Nov 2024 15:18	YP\AJ	Ok,NS
16	P4839-09	FG014853.D	18 Nov 2024 15:47	YP\AJ	Ok
17	P4839-12	FG014854.D	18 Nov 2024 16:15	YP\AJ	Dilution
18	P4839-16	FG014855.D	18 Nov 2024 16:43	YP\AJ	Dilution
19	P4839-17	FG014856.D	18 Nov 2024 17:12	YP\AJ	Ok
20	P4839-20	FG014857.D	18 Nov 2024 17:40	YP\AJ	Ok
21	I.BLK	FG014858.D	18 Nov 2024 18:08	YP\AJ	Ok

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111824

Review By	yogesh	Review On	11/18/2024 12:59:34 PM		
Supervise By		Supervise On			
SubDirectory	FG111824	HP Acquire Method		HP Processing Method	FG111824
STD. NAME	STD REF.#				
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966				
CCC Internal Standard/PEM	PP23963				
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967				

22	50 PPM TRPH STD	FG014859.D	18 Nov 2024 19:05	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF111324

Review By	yogesh	Review On	11/13/2024 9:01:31 AM
Supervise By	Ankita	Supervise On	11/14/2024 11:06:10 AM
SubDirectory	FF111324	HP Acquire Method	HP Processing Method FF111324

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FF015000.D	13 Nov 2024 09:05		YP\AJ	Ok
2	I.BLK		FF015001.D	13 Nov 2024 09:33		YP\AJ	Ok
3	100 TRPH STD		FF015002.D	13 Nov 2024 10:02		YP\AJ	Not Ok
4	50 TRPH STD		FF015003.D	13 Nov 2024 10:30		YP\AJ	Ok
5	20 TRPH STD		FF015004.D	13 Nov 2024 10:58		YP\AJ	Ok
6	10 TRPH STD		FF015005.D	13 Nov 2024 11:26		YP\AJ	Ok
7	5 TRPH STD		FF015006.D	13 Nov 2024 11:54		YP\AJ	Ok
8	100 TRPH STD		FF015007.D	13 Nov 2024 12:25		YP\AJ	Ok
9	FF111324ICV		FF015008.D	13 Nov 2024 12:53		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF111824

Review By	yogesh	Review On	11/18/2024 12:58:50 PM
Supervise By		Supervise On	
SubDirectory	FF111824	HP Acquire Method	HP Processing Method FF111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC	PP23963		
Internal Standard/PEM			
ICV/I.BLK	PP23962,PP23967		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FF015076.D	18 Nov 2024 08:19		YP\AJ	Ok
2	I.BLK		FF015077.D	18 Nov 2024 10:28		YP\AJ	Ok
3	50 PPM TRPH STD		FF015078.D	18 Nov 2024 10:56		YP\AJ	Ok
4	RT MARKER		FF015079.D	18 Nov 2024 11:24		YP\AJ	Ok
5	P4839-21		FF015080.D	18 Nov 2024 12:00	need 100x dilution	YP\AJ	Dilution
6	P4839-22		FF015081.D	18 Nov 2024 12:28		YP\AJ	Ok
7	I.BLK		FF015082.D	18 Nov 2024 12:57		YP\AJ	Ok
8	50 PPM TRPH STD		FF015083.D	18 Nov 2024 13:25		YP\AJ	Ok
9	PB165028BL		FF015084.D	18 Nov 2024 14:22		YP\AJ	Ok
10	PB165028BS		FF015085.D	18 Nov 2024 14:50		YP\AJ	Ok
11	P4839-22MS		FF015086.D	18 Nov 2024 15:18		YP\AJ	Ok
12	P4839-22MSD		FF015087.D	18 Nov 2024 15:47		YP\AJ	Ok
13	P4839-21		FF015088.D	18 Nov 2024 16:15		YP\AJ	Ok
14	I.BLK		FF015089.D	18 Nov 2024 16:43		YP\AJ	Ok
15	50 PPM TRPH STD		FF015090.D	18 Nov 2024 17:40		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111324

Review By	yogesh	Review On	11/13/2024 9:02:08 AM
Supervise By	Ankita	Supervise On	11/14/2024 11:06:20 AM
SubDirectory	FG111324	HP Acquire Method	HP Processing Method FG111324

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG014757.D	13 Nov 2024 08:37		YP\AJ	Ok
2	I.BLK		FG014758.D	13 Nov 2024 09:05		YP\AJ	Ok
3	100 TRPH STD		FG014759.D	13 Nov 2024 09:33		YP\AJ	Not Ok
4	50 TRPH STD		FG014760.D	13 Nov 2024 10:02		YP\AJ	Ok
5	20 TRPH STD		FG014761.D	13 Nov 2024 10:30		YP\AJ	Ok
6	10 TRPH STD		FG014762.D	13 Nov 2024 10:58		YP\AJ	Ok
7	5 TRPH STD		FG014763.D	13 Nov 2024 12:25		YP\AJ	Ok
8	100 TRPH STD		FG014764.D	13 Nov 2024 13:22		YP\AJ	Ok,M
9	FG111324ICV		FG014765.D	13 Nov 2024 14:00		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111524

Review By	yogesh	Review On	11/15/2024 11:08:18 AM
Supervise By	Ankita	Supervise On	11/18/2024 10:48:08 AM
SubDirectory	FG111524	HP Acquire Method	HP Processing Method FG111324

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG014789.D	15 Nov 2024 09:28		YPIAJ	Ok
2	I.BLK		FG014790.D	15 Nov 2024 09:56		YPIAJ	Ok
3	50 PPM TRPH STD		FG014791.D	15 Nov 2024 10:24		YPIAJ	Ok
4	RT MARKER		FG014792.D	15 Nov 2024 10:56		YPIAJ	Ok
5	PB164989BL		FG014793.D	15 Nov 2024 11:24		YPIAJ	Ok
6	PB164989BS		FG014794.D	15 Nov 2024 11:53		YPIAJ	Ok
7	P4810-01		FG014795.D	15 Nov 2024 12:21		YPIAJ	Ok
8	P4810-01MS		FG014796.D	15 Nov 2024 12:49		YPIAJ	Ok,M
9	P4810-01MSD		FG014797.D	15 Nov 2024 13:18		YPIAJ	Ok,M
10	I.BLK		FG014798.D	15 Nov 2024 13:46		YPIAJ	Ok
11	50 PPM TRPH STD		FG014799.D	15 Nov 2024 14:14		YPIAJ	Ok
12	I.BLK		FG014800.D	15 Nov 2024 15:11		YPIAJ	Ok
13	50 PPM TRPH STD		FG014801.D	15 Nov 2024 15:39		YPIAJ	Ok
14	RT MARKER		FG014802.D	15 Nov 2024 16:36		YPIAJ	Ok
15	PB164995BL		FG014803.D	15 Nov 2024 17:04		YPIAJ	Ok
16	PB164995BS		FG014804.D	15 Nov 2024 17:33		YPIAJ	Ok
17	P4839-02		FG014805.D	15 Nov 2024 18:01	need 10x dilution	YPIAJ	Dilution
18	P4839-03		FG014806.D	15 Nov 2024 18:30	need 10x dilution	YPIAJ	Dilution

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111524

Review By	yogesh	Review On	11/15/2024 11:08:18 AM
Supervise By	Ankita	Supervise On	11/18/2024 10:48:08 AM
SubDirectory	FG111524	HP Acquire Method	HP Processing Method FG111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC	PP23963		
Internal Standard/PEM	PP23962,PP23967		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P4839-04		FG014807.D	15 Nov 2024 18:58		YP\AJ	Ok
20	P4839-05		FG014808.D	15 Nov 2024 19:26	need 20x dilution	YP\AJ	Dilution
21	P4839-06		FG014809.D	15 Nov 2024 19:55	need 50x dilution	YP\AJ	Dilution
22	P4839-07		FG014810.D	15 Nov 2024 20:23	need 5x dilution	YP\AJ	Dilution
23	P4839-08		FG014811.D	15 Nov 2024 20:51		YP\AJ	Ok
24	P4839-09		FG014812.D	15 Nov 2024 21:20	need 10x dilution	YP\AJ	Dilution
25	P4839-10		FG014813.D	15 Nov 2024 21:48	not required	YP\AJ	Not Ok
26	I.BLK		FG014814.D	15 Nov 2024 22:17		YP\AJ	Ok
27	50 PPM TRPH STD		FG014815.D	15 Nov 2024 22:45		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111624

Review By	yogesh	Review On	11/16/2024 10:33:20 AM
Supervise By	Ankita	Supervise On	11/18/2024 10:48:59 AM
SubDirectory	FG111624	HP Acquire Method	HP Processing Method FG111324

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG014816.D	16 Nov 2024 10:35		YP\AJ	Ok
2	I.BLK		FG014817.D	16 Nov 2024 11:03		YP\AJ	Ok
3	50 PPM TRPH STD		FG014818.D	16 Nov 2024 11:31		YP\AJ	Ok
4	RT MARKER		FG014819.D	16 Nov 2024 11:59		YP\AJ	Ok
5	P4839-10		FG014820.D	16 Nov 2024 12:28		YP\AJ	Ok
6	P4839-10MS		FG014821.D	16 Nov 2024 12:56		YP\AJ	Ok,M
7	P4839-10MSD		FG014822.D	16 Nov 2024 13:25		YP\AJ	Ok
8	P4839-11		FG014823.D	16 Nov 2024 13:53	need 5x dilution	YP\AJ	Dilution
9	P4839-13		FG014824.D	16 Nov 2024 14:21	need 5x dilution	YP\AJ	Dilution
10	P4839-14		FG014825.D	16 Nov 2024 14:50		YP\AJ	Ok
11	P4839-01		FG014826.D	16 Nov 2024 15:18	need 2x dilution further	YP\AJ	Dilution
12	P4839-12		FG014827.D	16 Nov 2024 15:46		YP\AJ	Ok,M
13	P4839-15		FG014828.D	16 Nov 2024 16:15	need 2x dilution further	YP\AJ	Dilution
14	P4839-16		FG014829.D	16 Nov 2024 16:43		YP\AJ	Ok,M
15	P4839-17		FG014830.D	16 Nov 2024 17:11	need straight run	YP\AJ	Not Ok
16	P4839-20		FG014831.D	16 Nov 2024 17:40	need straight run	YP\AJ	Not Ok
17	I.BLK		FG014832.D	16 Nov 2024 18:08		YP\AJ	Ok,M
18	50 PPM TRPH STD		FG014833.D	16 Nov 2024 18:37		YP\AJ	Ok

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111624

Review By	yogesh	Review On	11/16/2024 10:33:20 AM
Supervise By	Ankita	Supervise On	11/18/2024 10:48:59 AM
SubDirectory	FG111624	HP Acquire Method	HP Processing Method FG111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC	PP23963		
Internal Standard/PEM	PP23962,PP23967		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P4839-18		FG014834.D	16 Nov 2024 19:33		YP\AJ	Ok
20	P4839-19		FG014835.D	16 Nov 2024 20:02		YP\AJ	Ok
21	I.BLK		FG014836.D	16 Nov 2024 20:30		YP\AJ	Ok,M
22	50 PPM TRPH STD		FG014837.D	16 Nov 2024 21:26		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111824

Review By	yogesh	Review On	11/18/2024 12:59:34 PM
Supervise By		Supervise On	
SubDirectory	FG111824	HP Acquire Method	HP Processing Method FG111824
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC	PP23963		
Internal Standard/PEM			
ICV/I.BLK	PP23962,PP23967		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG014838.D	18 Nov 2024 08:19		YP\AJ	Ok
2	I.BLK		FG014839.D	18 Nov 2024 08:47		YP\AJ	Ok
3	50 PPM TRPH STD		FG014840.D	18 Nov 2024 09:15		YP\AJ	Ok
4	RT MARKER		FG014841.D	18 Nov 2024 09:48		YP\AJ	Ok
5	P4839-01		FG014842.D	18 Nov 2024 10:28		YP\AJ	Ok,NS
6	P4839-15		FG014843.D	18 Nov 2024 10:56		YP\AJ	Ok,NS
7	P4839-11		FG014844.D	18 Nov 2024 11:24		YP\AJ	Ok
8	P4839-13		FG014845.D	18 Nov 2024 12:00		YP\AJ	Ok
9	P4839-02		FG014846.D	18 Nov 2024 12:28		YP\AJ	Ok,NS
10	I.BLK		FG014847.D	18 Nov 2024 12:57		YP\AJ	Ok,NS
11	50 PPM TRPH STD		FG014848.D	18 Nov 2024 13:25		YP\AJ	Ok
12	P4839-03		FG014849.D	18 Nov 2024 13:53		YP\AJ	Ok
13	P4839-05		FG014850.D	18 Nov 2024 14:22		YP\AJ	Ok,NS
14	P4839-06		FG014851.D	18 Nov 2024 14:50		YP\AJ	Ok
15	P4839-07		FG014852.D	18 Nov 2024 15:18		YP\AJ	Ok,NS
16	P4839-09		FG014853.D	18 Nov 2024 15:47		YP\AJ	Ok
17	P4839-12		FG014854.D	18 Nov 2024 16:15	need 10x dilution	YP\AJ	Dilution
18	P4839-16		FG014855.D	18 Nov 2024 16:43	need 10x dilution	YP\AJ	Dilution

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111824

Review By	yogesh	Review On	11/18/2024 12:59:34 PM
Supervise By		Supervise On	
SubDirectory	FG111824	HP Acquire Method	HP Processing Method FG111824
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC	PP23963		
Internal Standard/PEM			
ICV/I.BLK	PP23962,PP23967		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P4839-17		FG014856.D	18 Nov 2024 17:12		YP\AJ	Ok
20	P4839-20		FG014857.D	18 Nov 2024 17:40		YP\AJ	Ok
21	I.BLK		FG014858.D	18 Nov 2024 18:08		YP\AJ	Ok
22	50 PPM TRPH STD		FG014859.D	18 Nov 2024 19:05		YP\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/15/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:50
In Date: 11/14/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 11/15/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133451

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
P4839-01	EX-9-TPH-9	1	1.14	8.58	9.72	8.44	85.1	
P4839-02	EX-9-TPH-10	2	1.15	8.54	9.69	8.61	87.4	
P4839-03	EX-9-TPH-11	3	1.18	8.53	9.71	8.55	86.4	
P4839-04	EX-9-TPH-12	4	1.15	8.82	9.97	8.85	87.3	
P4839-05	EX-9-TPH-13	5	1.12	8.70	9.82	8.64	86.4	
P4839-06	EX-9-TPH-14	6	1.15	8.82	9.97	8.9	87.9	
P4839-07	EX-9-TPH-15	7	1.15	8.40	9.55	8.1	82.7	
P4839-08	EX-9-TPH-16	8	1.15	8.83	9.98	8.54	83.7	
P4839-09	EX-9-TPH-17	9	1.15	8.82	9.97	9.06	89.7	
P4839-10	EX-9-TPH-18	10	1.12	8.87	9.99	8.13	79.0	
P4839-11	EX-9-TPH-19	11	1.16	8.73	9.89	8.43	83.3	
P4839-12	EX-9-TPH-20	12	1.14	8.80	9.94	8.11	79.2	
P4839-13	EX-9-TPH-21	13	1.16	8.47	9.63	7.99	80.6	
P4839-14	EX-10-TPH-1	14	1.14	8.56	9.7	8.41	84.9	
P4839-15	EX-10-TPH-2	15	1.18	8.80	9.98	8.57	84.0	
P4839-16	EX-10-TPH-3	16	1.17	8.60	9.77	7.84	77.6	
P4839-17	EX-4-TPH-1	17	1.13	8.80	9.93	8.51	83.9	
P4839-18	EX-4-TPH-2	18	1.13	8.81	9.94	8.69	85.8	
P4839-19	EX-4-TPH-3	19	1.15	8.82	9.97	8.58	84.2	
P4839-20	EX-4-TPH-4	20	1.17	8.40	9.57	8.22	83.9	
P4839-21	EX-4-TPH-5	21	1.18	8.81	9.99	8.65	84.8	
P4839-22	EX-4-TPH-6	22	1.15	8.82	9.97	9.04	89.5	
P4848-01	TP-1	26	1.17	8.58	9.75	8.49	85.3	
P4849-01	RR-1	27	1.18	8.64	9.82	8.88	89.1	
P4850-01	OR-03-11142024	28	1.15	8.53	9.68	9.11	93.3	
P4850-02	OR-03-11142024-E2	29	1.18	8.60	9.78	8.81	88.7	
P4852-01	COMP-1	23	1.16	8.45	9.61	8.19	83.2	
P4852-02	COMP-2	24	1.17	8.60	9.77	8.17	81.4	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/15/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:50
In Date: 11/14/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 11/15/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133451

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
P4852-03	COMP-3	25	1.15	8.81	9.96	8.94	88.4	
P4857-01	ETGI-328	30	1.16	8.50	9.66	8.75	89.3	
P4857-02	ETGI-328-E2	31	1.00	1.00	2.00	2.00	100.0	debris
P4857-03	VNJ-226	32	1.18	8.72	9.9	9.37	93.9	
P4857-04	VNJ-226-E2	33	1.15	8.76	9.91	9.38	93.9	
P4858-01	BC258780-1-1	34	1.00	1.00	2.00	2.00	100.0	pilc
P4858-02	BC258780-1-2	35	1.00	1.00	2.00	2.00	100.0	pilc
P4858-03	BC258780-2-1	36	1.00	1.00	2.00	2.00	100.0	pilc
P4858-04	BC258780-2-2	37	1.00	1.00	2.00	2.00	100.0	pilc
P4858-05	HIH269B-1-1	38	1.00	1.00	2.00	2.00	100.0	pilc
P4858-06	HIH269B-1-2	39	1.00	1.00	2.00	2.00	100.0	pilc
P4858-07	BC225734-1-1	40	1.00	1.00	2.00	2.00	100.0	pilc
P4858-08	BC225734-1-2	41	1.00	1.00	2.00	2.00	100.0	pilc
P4858-09	BC225734-2-1	42	1.00	1.00	2.00	2.00	100.0	pilc
P4858-10	BC225734-2-2	43	1.00	1.00	2.00	2.00	100.0	pilc
P4858-11	BC248150-1-1	44	1.00	1.00	2.00	2.00	100.0	pilc
P4858-12	BC248150-1-2	45	1.00	1.00	2.00	2.00	100.0	pilc
P4858-13	Y2309-0044-1-1	46	1.00	1.00	2.00	2.00	100.0	pilc
P4858-14	Y2309-0044-1-2	47	1.00	1.00	2.00	2.00	100.0	pilc
P4858-15	BC274768-1-1	48	1.00	1.00	2.00	2.00	100.0	pilc
P4858-16	BC274768-1-2	49	1.00	1.00	2.00	2.00	100.0	pilc
P4858-17	BC274601-1-1	50	1.00	1.00	2.00	2.00	100.0	pilc
P4858-18	BC274601-1-2	51	1.00	1.00	2.00	2.00	100.0	pilc
P4859-01	NB-08-111424	52	1.18	8.54	9.72	9.03	91.9	
P4859-02	NB-08-111424-E2	53	1.19	8.52	9.71	9.04	92.1	

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

WORKLIST(Hardcopy Internal Chain)

133451

WorkList Name : %1-111424

WorkList ID : 185415

Department : Wet-Chemistry

Date : 11-14-2024 07:57:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4839-01	EX-9-TPH-9	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-02	EX-9-TPH-10	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-03	EX-9-TPH-11	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-04	EX-9-TPH-12	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-05	EX-9-TPH-13	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-06	EX-9-TPH-14	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-07	EX-9-TPH-15	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-08	EX-9-TPH-16	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-09	EX-9-TPH-17	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-10	EX-9-TPH-18	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-11	EX-9-TPH-19	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-12	EX-9-TPH-20	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-13	EX-9-TPH-21	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-14	EX-10-TPH-1	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-15	EX-10-TPH-2	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-16	EX-10-TPH-3	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-17	EX-4-TPH-1	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-18	EX-4-TPH-2	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-19	EX-4-TPH-3	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-20	EX-4-TPH-4	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-21	EX-4-TPH-5	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO

Date/Time 11-14-24 16:10
 Raw Sample Received by: JG
 Raw Sample Relinquished by: PS (Ext Lab)

Date/Time 11-14-24 17:10
 Raw Sample Received by: PS (Ext Lab)
 Raw Sample Relinquished by: JG

WORKLIST(Hardcopy Internal Chain)

VB 133451

WorkList Name : %1-111424

WorkList ID : 185415

Department : Wet-Chemistry

Date : 11-14-2024 07:57:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4839-22	EX-4-TPH-6	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4848-01	TP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/14/2024	Chemtech -SO
P4849-01	RR-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	11/14/2024	Chemtech -SO
P4850-01	OR-03-11142024	Solid	Percent Solids	Cool 4 deg C	PSEG05	L11	11/14/2024	Chemtech -SO
P4850-02	OR-03-11142024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L11	11/14/2024	Chemtech -SO
P4852-01	COMP-1	Solid	Percent Solids	Cool 4 deg C	POWE02	L41	11/13/2024	Chemtech -SO
P4852-02	COMP-2	Solid	Percent Solids	Cool 4 deg C	POWE02	L41	11/13/2024	Chemtech -SO
P4852-03	COMP-3	Solid	Percent Solids	Cool 4 deg C	POWE02	L41	11/13/2024	Chemtech -SO
P4857-01	ETGI-328	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/14/2024	Chemtech -SO
P4857-02	ETGI-328-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/14/2024	Chemtech -SO
P4857-03	VNJ-226	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/14/2024	Chemtech -SO
P4857-04	VNJ-226-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/14/2024	Chemtech -SO
P4858-01	BC258780-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-02	BC258780-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-03	BC258780-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-04	BC258780-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-05	HIH269B-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-06	HIH269B-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-07	BC225734-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-08	BC225734-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-09	BC225734-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO

Date/Time 11-14-24 16:10
 Raw Sample Received by: JG (ent)
 Raw Sample Relinquished by: AS (EG-66)

Date/Time 11-24-24
 Raw Sample Received by: AS (EG-66)
 Raw Sample Relinquished by: JG (ent)

WORKLIST(Hardcopy Internal Chain)

133451

WorkList Name : %1-111424 WorkList ID : 185415 Department : Wet-Chemistry Date : 11-14-2024 07:57:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4858-10	BC225734-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-11	BC248150-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-12	BC248150-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-13	Y2309-0044-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-14	Y2309-0044-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-15	BC274768-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-16	BC274768-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-17	BC274601-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-18	BC274601-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4859-01	NB-08-111424	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	11/14/2024	Chemtech -SO
P4859-02	NB-08-111424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	11/14/2024	Chemtech -SO

Date/Time

11-14-24 16:10

Raw Sample Received by:

JS (Ext-66)

Raw Sample Relinquished by:

JS (Ext-66)

Date/Time

11-14-24 17:10

Raw Sample Received by:

JS (Ext-66)

Raw Sample Relinquished by:

JS (Ext-66)

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: 11/14/2024

Extraction Start Time: 13:15

Extraction End Date: 11/14/2024

Extraction End Time: 16:25

Concentration By: EH

Supervisor By: rajesh

Extraction Method: ☐ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☒ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	20 PPM	PP23935
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	EP2560
Baked Na2SO4	N/A	EP2562
Sand	N/A	E2865
Methylene Chloride	N/A	E3828
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

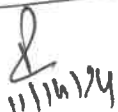
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/14/24	RP (2x1.165)	T-P-pestHPCB.
16:30	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/14/2024

Sample ID	Client Sample ID	Test	g mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164995BL	PB164995BL	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1			U1-1
PB164995BS	PB164995BS	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1			2
P4839-01	EX-9-TPH-9	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1			3
P4839-02	EX-9-TPH-10	Diesel Range Organics	30.09	N/A	ritesh	Evelyn	1			4
P4839-03	EX-9-TPH-11	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1			5
P4839-04	EX-9-TPH-12	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1			6
P4839-05	EX-9-TPH-13	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1			U5-1
P4839-06	EX-9-TPH-14	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1			2
P4839-07	EX-9-TPH-15	Diesel Range Organics	30.08	N/A	ritesh	Evelyn	1			3
P4839-08	EX-9-TPH-16	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1			4
P4839-09	EX-9-TPH-17	Diesel Range Organics	30.07	N/A	ritesh	Evelyn	1			5
P4839-10	EX-9-TPH-18	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1			6
P4839-10MS	EX-9-TPH-18MS	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1			U6-1
P4839-10MS D	EX-9-TPH-18MSD	Diesel Range Organics	30.08	N/A	ritesh	Evelyn	1			2
P4839-11	EX-9-TPH-19	Diesel Range Organics	30.09	N/A	ritesh	Evelyn	1			3
P4839-12	EX-9-TPH-20	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1			4
P4839-13	EX-9-TPH-21	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1			5
P4839-14	EX-10-TPH-1	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1			6
P4839-15	EX-10-TPH-2	Diesel Range Organics	30.04	N/A	ritesh	Evelyn	1			U7-1
P4839-16	EX-10-TPH-3	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1			2
P4839-17	EX-4-TPH-1	Diesel Range Organics	30.07	N/A	ritesh	Evelyn	1			3
P4839-18	EX-4-TPH-2	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1			4
P4839-19	EX-4-TPH-3	Diesel Range Organics	30.08	N/A	ritesh	Evelyn	1			5
P4839-20	EX-4-TPH-4	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1			6

* Extracts relinquished on the same date as received.



164
13:15

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4839

WorkList ID : 185456

Department : Extraction

Date : 11-14-2024 13:09:33

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4839-01	EX-9-TPH-9	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-02	EX-9-TPH-10	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-03	EX-9-TPH-11	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-04	EX-9-TPH-12	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-05	EX-9-TPH-13	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-06	EX-9-TPH-14	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-07	EX-9-TPH-15	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-08	EX-9-TPH-16	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-09	EX-9-TPH-17	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-10	EX-9-TPH-18	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-11	EX-9-TPH-19	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-12	EX-9-TPH-20	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-13	EX-9-TPH-21	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-14	EX-10-TPH-1	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-15	EX-10-TPH-2	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-16	EX-10-TPH-3	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-17	EX-4-TPH-1	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-18	EX-4-TPH-2	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-19	EX-4-TPH-3	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-20	EX-4-TPH-4	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D

Date/Time

11/14/24 13:13

Raw Sample Received by:

APG

Raw Sample Relinquished by:

APG

Date/Time

11/14/24 13:40

Raw Sample Received by:

APG

Raw Sample Relinquished by:

APG

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: 11/16/2024

Extraction Start Time: 08:20

Extraction End Date: 11/16/2024

Extraction End Time: 11:20

Concentration By: EH

Supervisor By: rajesh

Extraction Method: ☐ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☒ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	20 PPM	PP23935
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	EP2560
Baked Na2SO4	N/A	EP2562
Sand	N/A	E2865
Methylene Chloride	N/A	E3828
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
11/18/24	RP (Ext. Lab)	Y.P. PEST/KCB
8:55	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/16/2024

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165028BL	PB165028BL	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1			U1-1
PB165028BS	PB165028BS	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1			2
P4839-21	EX-4-TPH-5	Diesel Range Organics	30.04	N/A	ritesh	Evelyn	1	E		3
P4839-22	EX-4-TPH-6	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	E		4
P4839-22MS	EX-4-TPH-6MS	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	E		5
P4839-22MS D	EX-4-TPH-6MSD	Diesel Range Organics	30.07	N/A	ritesh	Evelyn	1	E		6

* Extracts relinquished on the same date as received.

2
11/16/24

8-2021

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4839D WorkList ID : 185499 Department : Extraction Date : 11-16-2024 08:04:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4839-21	EX-4-TPH-5	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D
P4839-22	EX-4-TPH-6	Solid	Diesel Range Organics	Cool 4 deg C	ENTA05	L31	11/13/2024	8015D

Date/Time 11/16/24 8:15
Raw Sample Received by: RJ (see log)
Raw Sample Relinquished by: RJ (see log)

Date/Time 11/16/24 8:40
Raw Sample Received by: RJ (see log)
Raw Sample Relinquished by: RJ (see log)

Prep Standard - Chemical Standard Summary

Order ID : P4839

Test : Diesel Range Organics

Prepbatch ID : PB164995,PB165028,

Sequence ID/Qc Batch ID: FG111624,FG111824,FF111824,FG111524,

Standard ID :

EP2560,EP2562,PP23454,PP23935,PP23961,PP23962,PP23963,PP23964,PP23965,PP23966,PP23967,

Chemical ID :

E2865,E3551,E3759,E3822,E3827,E3828,P11950,P11958,P11959,P11960,P13213,P13218,P13219,P13492,P13493,P13494,P13495,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2560	11/14/2024	05/08/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/14/2024

FROM 8000.00000ml of E3827 + 8000.00000ml of E3828 = Final Quantity: 16000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2562	11/14/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

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

FROM 1.00000ml of P13492 + 1.00000ml of P13493 + 1.00000ml of P13494 + 1.00000ml of P13495 + 196.00000ml of E3822 = Final Quantity: 200.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
433	100/100 PPM DRO (Restek)	PP23961	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/13/2024

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

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

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

Pest/Pcb STANDARD PREPARATION LOG

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

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

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

FROM 0.80000ml of E3828 + 0.20000ml of PP23961 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
438	10 PPM ICC DRO STD (Restek)	PP23965	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/13/2024

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

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

FROM 0.90000ml of E3828 + 0.10000ml of PP23963 = Final Quantity: 1.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3797	50 PPM DRO ICV STD (CPI)	PP23967	11/13/2024	02/14/2025	Yogesh Patel	None	None	Ankita Jodhani 11/13/2024
<u>FROM</u>	0.80000ml of E3828 + 0.50000ml of PP23962 = Final Quantity: 1.000 ml							

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)	24I2662006	04/23/2025	10/24/2024 / Rajesh	10/24/2024 / Rajesh	E3822

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/08/2025	11/08/2024 / Rajesh	11/07/2024 / Rajesh	E3827

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

CHEMICAL RECEIPT LOG BOOK

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	05/13/2025	11/13/2024 / yogesh	07/11/2022 / Yogesh	P11958

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	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 #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/13/2025	11/13/2024 / yogesh	01/17/2024 / Ankita	P13213

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

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	05/13/2025	11/13/2024 / yogesh	01/31/2024 / Ankita	P13219

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

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

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

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

Sand
Purified
Washed and Ignited



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

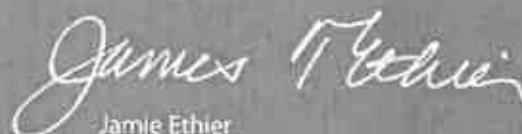
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	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


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
QUÍMICOS
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 ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO 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 foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

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

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

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



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)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 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

Jamie Croak
Director Quality Operations, Bioscience Production

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



Material No.: 9266-A4

Batch No.: 24I2662006

Manufactured Date: 2024-08-29

Expiration Date: 2025-11-28

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

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

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3827

Rec'd by RS on ~~11/8/24~~ 11/7/24

$\frac{RS}{11/7}$

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

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

 **avantors**TM



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828



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



CERTIFIED REFERENCE MATERIAL

110 Benner Circle

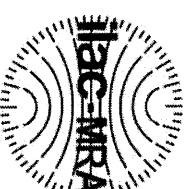
Belleville, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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 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 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 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 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 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 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 Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed

P11948 } 7.8
P11962 } 07/11/16

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:

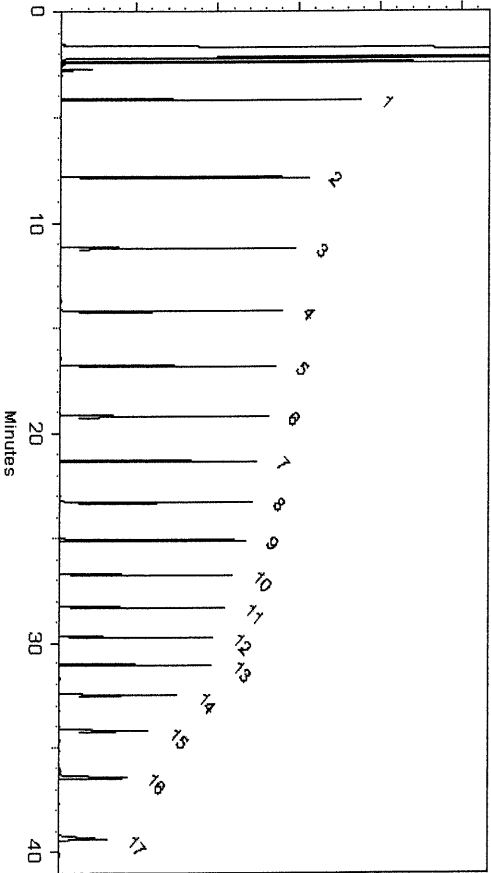
250°C

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

Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills

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:

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

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.



CERTIFIED REFERENCE MATERIAL

110 Benner Circle

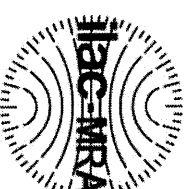
Bellefonte, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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 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 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 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 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 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 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 Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed

P11948 } 7.8
P11962 } 07/11/16

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:

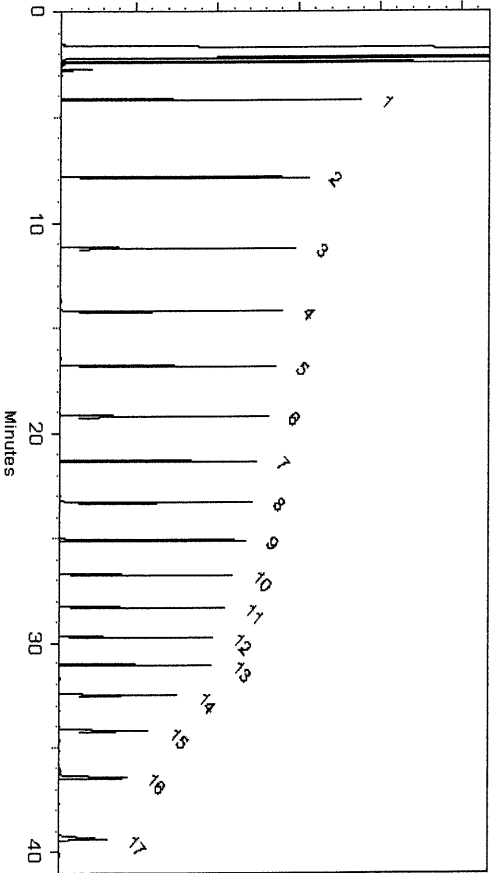
250°C

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
Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills
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:

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

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.



CERTIFIED REFERENCE MATERIAL

110 Benner Circle

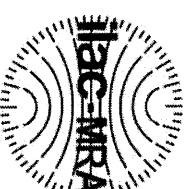
Bellefonte, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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 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 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 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 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 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 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 Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed

P11948 } 7.8
P11962 } 07/11/16

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:

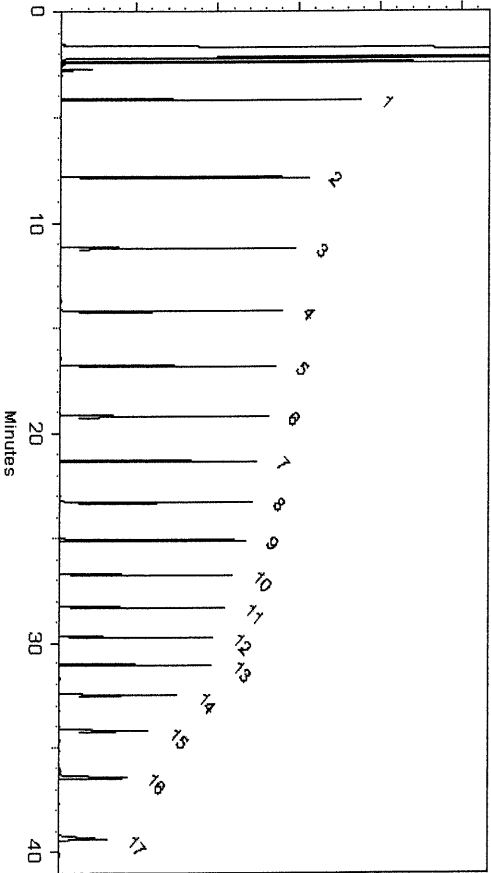
250°C

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
Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills
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:

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

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- 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:

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CERTIFIED REFERENCE MATERIAL

110 Benner Circle

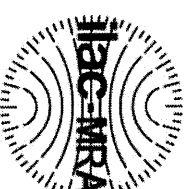
Bellefonte, PA 16823-8812

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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 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 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 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 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 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 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 Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed

P11948
P11962
7.8
07/11/16

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:

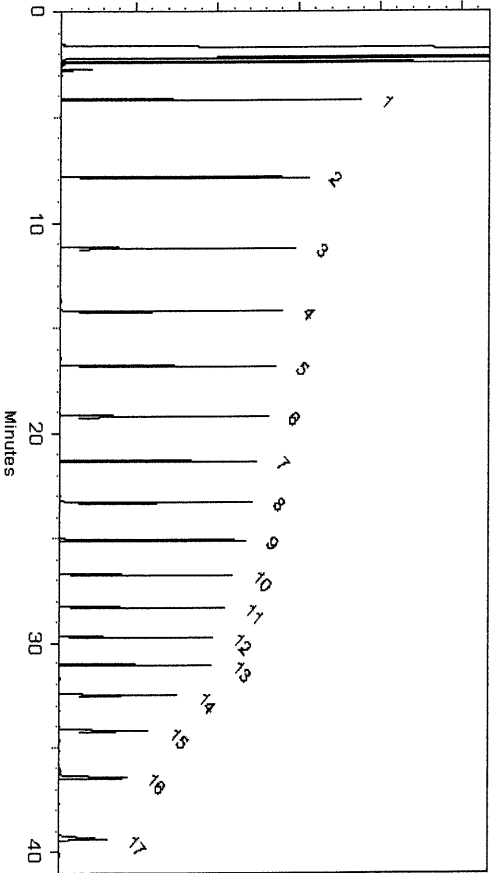
250°C

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

Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills

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:

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Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified 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:

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

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.

CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

72072
101122
n-Tetracosane-d50

Solvent(s):
Methylene chloride

Lot#
105345

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

101132
Ambient (20 °C)
1000
6UTB

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL):

200.0

Formulated By:	Prashant Chauhan	101122	DATE
Reviewed By:	Pedro L. Renteria	101122	DATE

SDS Information

Expanded
Uncertainty
(Solute Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA) LD50

Compound

1. n-Tetracosane-d50

N/A

16416-32-3

4.1

1000.6

0.20482

0.20471

99.0

0.2

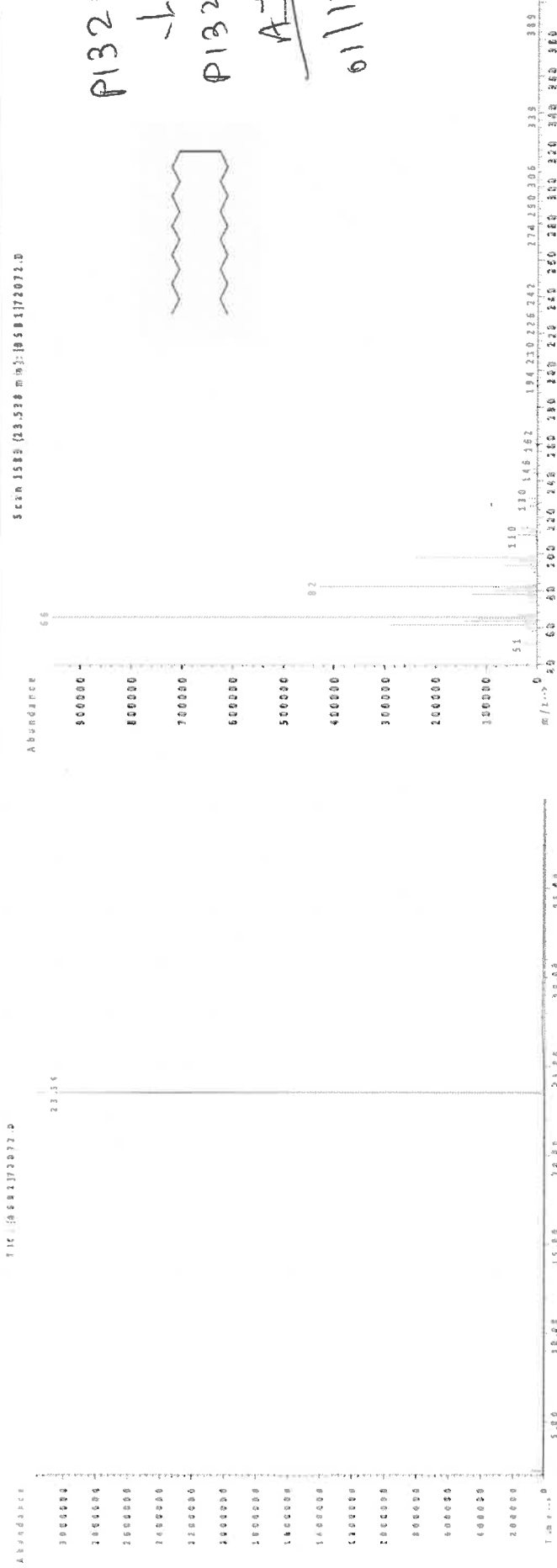
98.7

1000

2072

PR-26606

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



5580 Skylane Blvd
Santa Rosa, CA 95403

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

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

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.: Storage:

Z-110400-05 514983 ≤ -10 Degrees C

Solvent:

Hexane

Exp. Date:

11/20/2028

Description:

TRPH Standard (C8-C40), 500 mg/L, 1 ml

-01

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

368.27.1.1P

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

tetatriacontane (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

Let the standard warm to room temperature and sonicate before opening.

P13215

↓

P13224

AJ
01131124

*Not a certified value

Andrea Schaible

Andrea Schaible
Chemist

Certified By: _____

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 gravimetrically.



5580 Skylane Blvd
Santa Rosa, CA 95403

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

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

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.: Storage:

Z-110400-05 514983 ≤ -10 Degrees C

Solvent:

Hexane

Exp. Date:

11/20/2028

Description:

TRPH Standard (C8-C40), 500 mg/L, 1 ml

-01

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

368.27.1.1P

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

tetatriacontane (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

Let the standard warm to room temperature and sonicate before opening.

P13215

↓

P13224

AJ
01131124

*Not a certified value

Andrea Schaible

Certified By: _____
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 gravimetrically.

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: UCRM is the expanded uncertainty which utilizes a $K = 2$ (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

Page 1 of 2



Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scope: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life 070716

Part Number: 10009R
Lot Number: 070716
Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070716
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#: 5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

Formulated By: Paul Barron
Reviewed By: Pedro L. Rentes

070716
070716

Weight(s) shown below were combined and diluted to (mL): 500.0

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	N/A	or-nr 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	N/A	or-nr 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-26-2	N/A	N/A	or-nr 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A	N/A
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A	N/A

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"

Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070716-GC/MS", Method "GC-MS".
Analyzed using Method "GC-MS".

Comments:
GC-MS Analysis by Melissa Siciric
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 0.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) = 300 mL, Oven Temp 1 = 50°C (1 min).
Rise = 10°C/min, Oven Temp 2 = 300°C (14 min). Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = sData Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 4

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Printed: 5/8/2019, 12:55:50 PM

Formulator
Reviewer

Actual
Concentration
Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

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

Solvent(s):
Methylene chloride
Lot#
105345

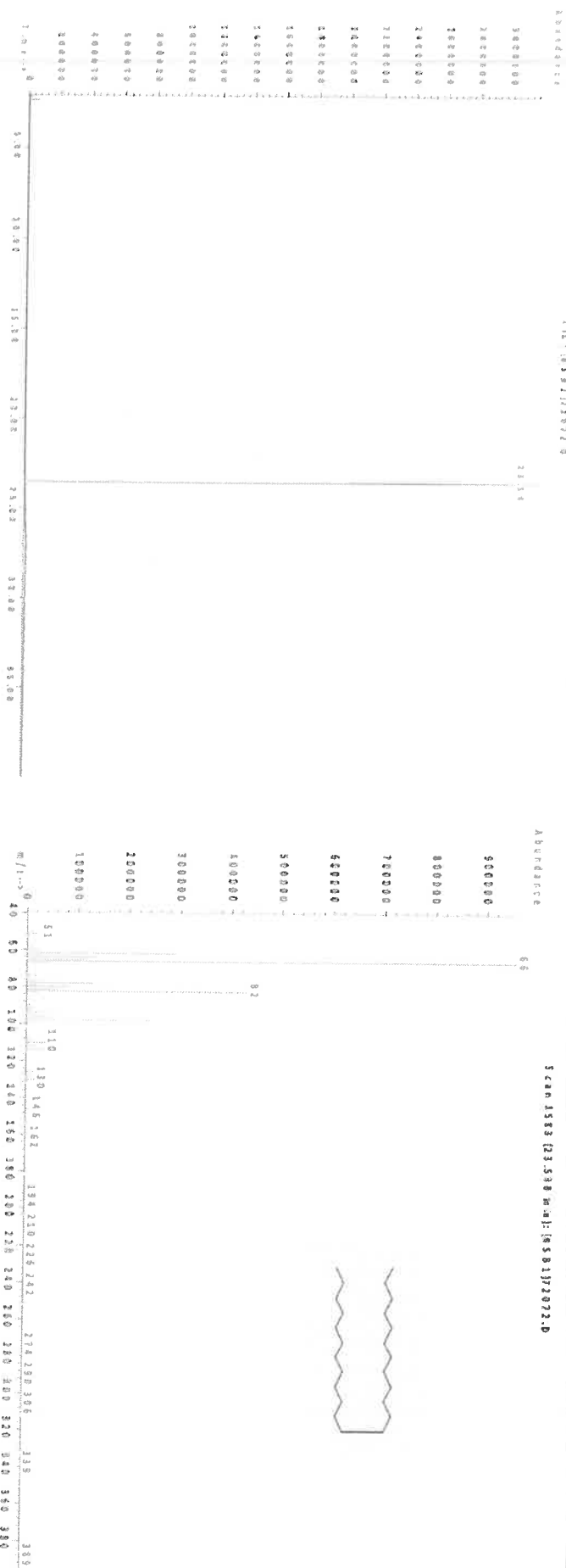
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

Formulated By:	<i>Prashant Chauhan</i>	101122
Reviewed By:	<i>Pedro L. Rentas</i>	101122
DATE		DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	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

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: UCRM is the expanded uncertainty which utilizes a $K = 2$ (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

Page 1 of 2



Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scope: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070721
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#: 5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

Formulated By: Paul Barron
Reviewed By: Pedro L. Rentes

070716
070716

Weight(s) shown below were combined and diluted to (mL): 500.0

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	CAS#	MSDS Information (Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	en-ra 500mg/kg	
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	en-ra 400mg/kg	
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	en-ra 500mg/kg	
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A	
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A	
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A	

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"

Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070716-GC/MS", Method "GC-MS".
Analyzed using Method "GC-MS".

Comments:
GC-MS Analysis by Melissa Siciric
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 0.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) = 300 mL, Oven Temp 1 = 50°C (1 min).
Rise = 10°C/min, Oven Temp 2 = 300°C (14 min). Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 4

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Printed: 5/8/2019, 12:55:50 PM

Part # 10009R Lot # 041219

Formulator
Reviewer

Actual
Concentration
Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

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

Solvent(s):
Methylene chloride
Lot#
105345

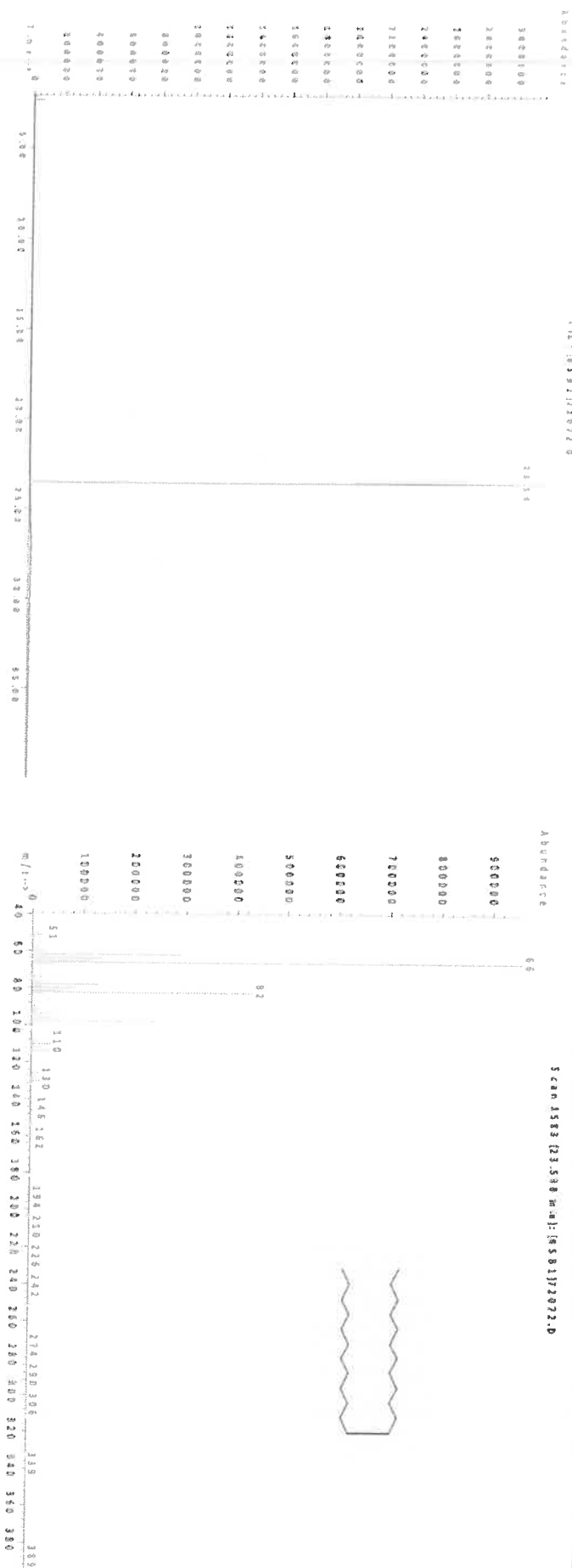
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

Formulated By:	<i>Prashant Chauhan</i>	101122
Reviewed By:	<i>Pedro L. Rentas</i>	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.)	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

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: UCRM is the expanded uncertainty which utilizes a $K = 2$ (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

Page 1 of 2



Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scope: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070721
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#: 5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

Formulated By: Paul Barron
Reviewed By: Pedro L. Rentes

070716
070716

Weight(s) shown below were combined and diluted to (mL): 500.0

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	CAS#	MSDS Information (Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	en-ra 500mg/kg	
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	en-ra 400mg/kg	
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	en-ra 500mg/kg	
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A	
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A	
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A	

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"
Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070716-GC/MS", Method "GC-MS".
Analyzed using Method "GC-MS".

Comments:
GC-MS Analysis by Melissa Siciric
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 0.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) = 300 mL, Oven Temp 1 = 50°C (1 min).
Rise = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes, Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 4

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Printed: 5/8/2019, 12:55:50 PM

Part # 10009R Lot # 041219 1 of 2

Formulator
Reviewer

Actual
Concentration
Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

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

Solvent(s):
Methylene chloride
Lot#
105345

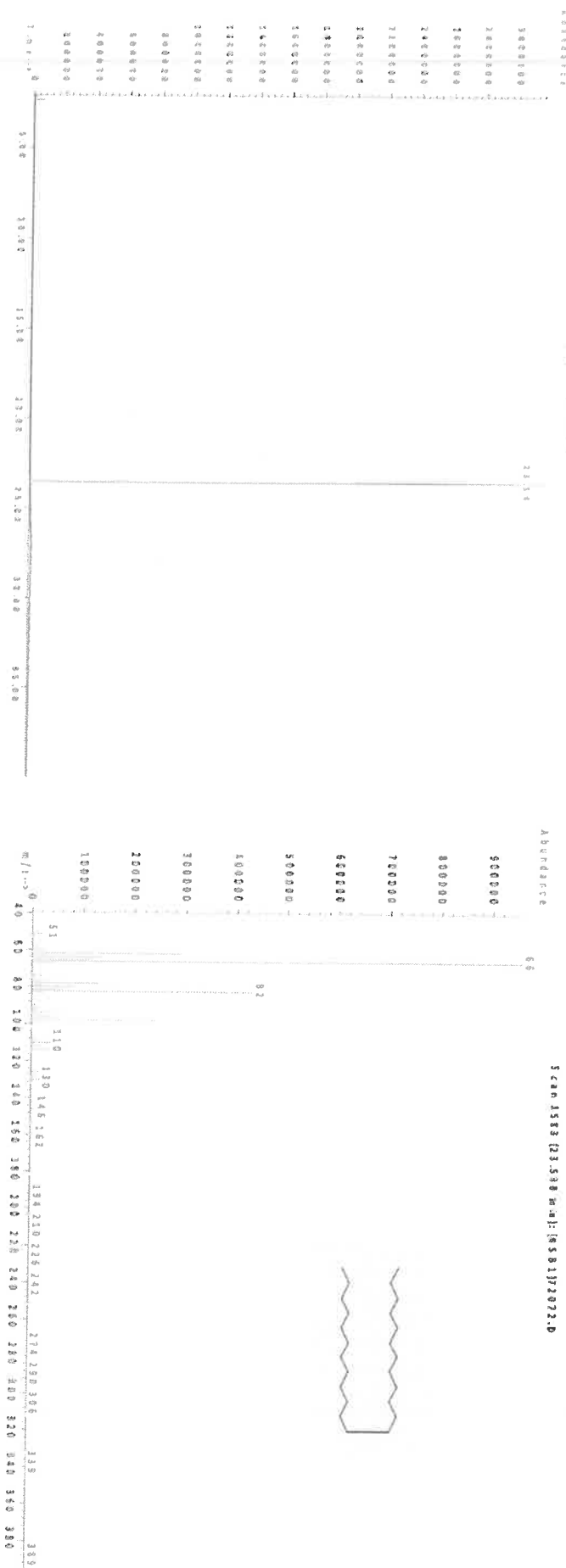
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

Formulated By:	<i>Prashant Chauhan</i>	101122
Reviewed By:	<i>Pedro L. Rentas</i>	101122
	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	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

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: UCRM is the expanded uncertainty which utilizes a $K = 2$ (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

Certifying Officer: Stephen J. Arpie, M.S., Director General

Page 1 of 2



Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scope: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070721
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#: 5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

Formulated By: Paul Barron
Reviewed By: Pedro L. Rentes

070716
070716

Weight(s) shown below were combined and diluted to (mL): 500.0

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	or-rat 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	or-rat 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"
Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070716-GC/MS", Method "GC-MS".
Analyzed using Method "GC-MS".

Comments:
GC-MS Analysis by Melissa Siciric
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 0.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) = 300 mL, Oven Temp 1 = 50°C (1 min).
Rise = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes, Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = sData Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 4

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	8.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Printed: 5/8/2019, 12:55:50 PM

Formulator
Reviewer

Actual
Concentration
Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

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

Solvent(s):
Methylene chloride
Lot#
105345

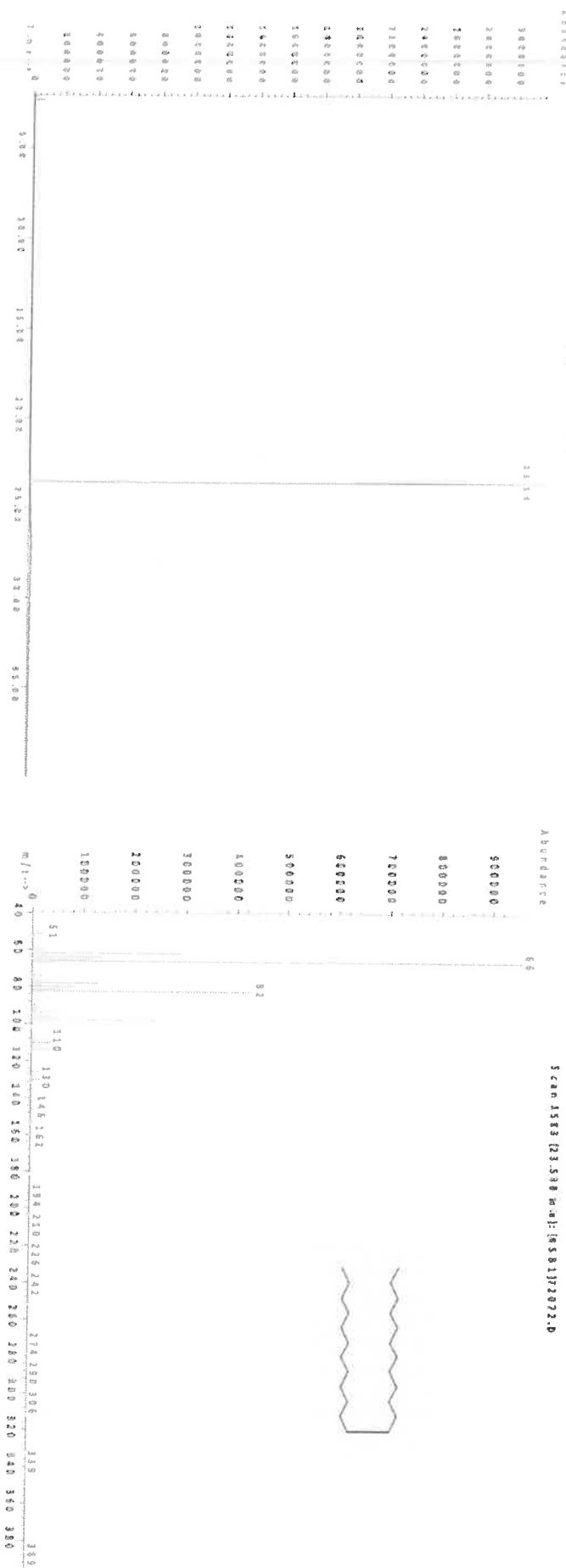
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

Formulated By:	<i>Prashant Chauhan</i>	101122
Reviewed By:	<i>Pedro L. Rentas</i>	101122
DATE		DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	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

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



SHIPPING DOCUMENTS



CHAIN OF CUSTODY RECORD

p4842
p4839

COMPANY INFORMATION			PROJECT INFORMATION				REQUESTED ANALYSIS/METHOD										COMMENTS			
LOCATION	ENTACT LLC		PROJECT	North Point																
ATTN	Wyatt Seel		BILLING INFORMATION																	
ADDRESS	150 Bay Street, Suite 801		BILL TO	ENTACT LLC																
Jersey City, NJ			ADDRESS	999 Oakmont Plaza Drive Suite 300																
			Westmont, IL 60559																	
PHONE	419-266-4671		PHONE	630-986-2900																
FAX			FAX	PO# E9306																
SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	SAMPLE TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	TPH analysis(EPH Cat2, DRO & GRO) (8015)												
EX-9-TPH-9	TPH	11/13	11:00	Soil	G	Teracore / 8oz	2	X												
EX-9-TPH-10	TPH	11/13	11:00	Soil	G		2	X												
EX-9-TPH-11	TPH	11/13	11:00	Soil	G		2	X												
EX-9-TPH-12	TPH	11/13	11:00	Soil	G		2	X												
EX-9-TPH-13	TPH	11/13	11:00	Soil	G		2	X												
EX-9-TPH-14	TPH	11/13	11:00	Soil	G		2	X												
EX-9-TPH-15	TPH	11/13	11:00	Soil	G		2	X												
EX-9-TPH-16	TPH	11/13	11:00	Soil	G		2	X												
EX-9-TPH-17	TPH	11/13	11:00	Soil	G		2	X												
SAMPLER		A. Farmerie		SHIPMENT		courier Temp 3.6°C				AIRBILL										
REQUIRED TURNAROUND		☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☒ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER: _____																		
1. RELINQUISHED BY		DATE		2. RELINQUISHED BY				DATE		3. RELINQUISHED BY				DATE						
SIGNATURE:		11-13-24		SIGNATURE:						SIGNATURE:				11-13-24						
PRINTED NAME/COMPANY: Austin Farmerie ENTACT				PRINTED NAME/COMPANY:						PRINTED NAME/COMPANY: Jahmir Davis Alliance				1735						
1. RECEIVED BY		DATE		2. RECEIVED BY				DATE		3. RECEIVED BY				DATE						
SIGNATURE:		11-13-24		SIGNATURE:						SIGNATURE:										
PRINTED NAME/COMPANY: Jahmir Davis Alliance		1415		PRINTED NAME/COMPANY:						PRINTED NAME/COMPANY:										



CHAIN OF CUSTODY RECORD

P4842

NO. 2 OF 3

COMPANY INFORMATION			PROJECT INFORMATION				REQUESTED ANALYSIS/METHOD										COMMENTS		
LOCATION	ENTACT LLC		PROJECT	North Point															
ATTN	Wyatt Seel		BILLING INFORMATION																
ADDRESS	150 Bay Street, Suite 801		BILL TO	ENTACT LLC															
Jersey City, NJ			ADDRESS	999 Oakmont Plaza Drive Suite 300															
			Westmont, IL 60559																
PHONE	419-266-4671		PHONE	630-986-2900															
FAX			FAX				PO#	E9306											
SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	SAMPLE TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	TPH analysis (EPH Cat2, DRO & GRO) (8015)											
EX-9-TPH-18	TPH	11/13	11:00	Soil	G	Teracore / 8oz	2	X											
EX-9-TPH-19	TPH	11/13	11:00	Soil	G		2	X											
EX-9-TPH-20	TPH	11/13	11:00	Soil	G		2	X											
EX-9-TPH-21	TPH	11/13	11:00	Soil	G		2	X											
EX-10-TPH-1	TPH	11/13	11:00	Soil	G		2	X											
EX-10-TPH-2	TPH	11/13	11:00	Soil	G		2	X											
EX-10-TPH-3	TPH	11/13	11:00	Soil	G		2	X											
EX-4-TPH-1	TPH	11/13	11:00	Soil	G		2	X	X										
EX-4-TPH-2	TPH	11/13	11:00	Soil	G		2	X											
SAMPLER		A. Farmerie		SHIPMENT		courier		Temp 36C		AIRBILL									
REQUIRED TURNAROUND		☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☒ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER: _____																	
1. RELINQUISHED BY		DATE		2. RELINQUISHED BY				DATE		3. RELINQUISHED BY				DATE					
SIGNATURE:		11-13-24		SIGNATURE:						SIGNATURE:				11-13-24					
PRINTED NAME/COMPANY: Austin Farmerie ENTACT				PRINTED NAME/COMPANY:						PRINTED NAME/COMPANY: Jahmir Davis Alliance				1735					
1. RECEIVED BY		DATE		2. RECEIVED BY				DATE		3. RECEIVED BY				DATE					
SIGNATURE:		11-13-24		SIGNATURE:						SIGNATURE:									
PRINTED NAME/COMPANY: Jahmir Davis Alliance		1415		PRINTED NAME/COMPANY:						PRINTED NAME/COMPANY:									



NO. 3 OF 3

COMPANY INFORMATION						PROJECT INFORMATION							REQUESTED ANALYSIS/METHOD								
LOCATION ENTACT LLC						PROJECT North Point															
ATTN Wyatt Seel						BILLING INFORMATION															
ADDRESS 150 Bay Street, Suite 801 Jersey City, NJ						BILL TO ENTACT LLC															
PHONE 419-266-4671						ADDRESS 999 Oakmont Plaza Drive Suite 300 Westmont, IL 60559															
FAX						PHONE 630-986-2900															
						FAX PO# E9306															
SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	SAMPLE TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	TPH analysis(EPH Cat2, DRO & GRO)	(8015)	PFOA / PFOS											COMMENTS
EX-4-TPH-3	TPH	11/13	11:00	Soil	G	Teracore / 8oz	2	X													
EX-4-TPH-4	TPH	11/13	11:00	Soil	G		2	X													
EX-4-TPH-5	TPH	11/13	11:00	Soil	G		2	X													
EX-4-TPH-6	TPH	11/13	11:00	Soil	G		2	X													
WC-22	PFOA / PFOS	11/13	11:00	Soil	G	8oz Jar				X											
SAMPLER	A. Farmerie	SHIPMENT	courier	Temp 3.6°	AIRBILL																
REQUIRED TURNAROUND		☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☒ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER:																			
1. RELINQUISHED BY		DATE	2. RELINQUISHED BY				DATE	3. RELINQUISHED BY				DATE									
SIGNATURE: [Signature]		11-13-24	SIGNATURE: [Signature]					SIGNATURE: [Signature]				11-13-24									
PRINTED NAME/COMPANY: Austin Farmerie ENTACT			PRINTED NAME/COMPANY:					PRINTED NAME/COMPANY: Tahmir Davis Alliance				1735									
1. RECEIVED BY		DATE	2. RECEIVED BY				DATE	3. RECEIVED BY				DATE									
SIGNATURE: [Signature]		11-13-24	SIGNATURE: [Signature]					SIGNATURE: [Signature]													
PRINTED NAME/COMPANY: Tahmir Davis Alliance		1415	PRINTED NAME/COMPANY:					PRINTED NAME/COMPANY:													



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4839	ENTA05	Order Date : 11/13/2024 2:21:00 PM	Project Mgr : Yazmeen
Client Name : ENTACT		Project Name : North Point	Report Type : Level 1
Client Contact : Wyatt Seel		Receive DateTime : 11/13/2024 ~~2:15:00~~ PM	EDD Type : Excel NJ
Invoice Name : ENTACT		Purchase Order : 18:35	Hard Copy Date :
Invoice Contact : Wyatt Seel			Date Signoff : 11/14/2024 12:01:17 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4839-01	EX-9-TPH-9	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D	5 Bus. Days	
P4839-02	EX-9-TPH-10	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D	5 Bus. Days	
P4839-03	EX-9-TPH-11	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D	5 Bus. Days	
P4839-04	EX-9-TPH-12	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D	5 Bus. Days	
P4839-05	EX-9-TPH-13	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D	5 Bus. Days	
P4839-06	EX-9-TPH-14	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D	5 Bus. Days	
P4839-07	EX-9-TPH-15	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D	5 Bus. Days	
P4839-08	EX-9-TPH-16	Solid	11/13/2024	11:00					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4839	ENTA05	Order Date : 11/13/2024 2:21:00 PM	Project Mgr : Yazmeen
Client Name : ENTACT		Project Name : North Point	Report Type : Level 1
Client Contact : Wyatt Seel		Receive DateTime : 11/13/2024 2:15:00 PM	EDD Type : Excel NJ
Invoice Name : ENTACT		Purchase Order : 18:35	Hard Copy Date :
Invoice Contact : Wyatt Seel			Date Signoff : 11/14/2024 12:01:17 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-09	EX-9-TPH-17	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-10	EX-9-TPH-18	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-11	EX-9-TPH-19	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-12	EX-9-TPH-20	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-13	EX-9-TPH-21	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-14	EX-10-TPH-1	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-15	EX-10-TPH-2	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4839	ENTA05	Order Date : 11/13/2024 2:21:00 PM	Project Mgr : Yazmeen
Client Name : ENTACT		Project Name : North Point	Report Type : Level 1
Client Contact : Wyatt Seel		Receive DateTime : 11/13/2024 2:15:00 PM	EDD Type : Excel NJ
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Invoice Contact : Wyatt Seel			Date Signoff : 11/14/2024 12:01:17 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4839-16	EX-10-TPH-3	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D	5 Bus. Days	
P4839-17	EX-4-TPH-1	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D	5 Bus. Days	
P4839-18	EX-4-TPH-2	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D	5 Bus. Days	
P4839-19	EX-4-TPH-3	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D	5 Bus. Days	
P4839-20	EX-4-TPH-4	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D	5 Bus. Days	
P4839-21	EX-4-TPH-5	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D	5 Bus. Days	
P4839-22	EX-4-TPH-6	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D	5 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4839	ENTA05	Order Date : 11/13/2024 2:21:00 PM	Project Mgr : Yazmeen
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Invoice Contact : Wyatt Seel			Date Signoff : 11/14/2024 12:01:17 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinquished By : 
Date / Time : 11/14/24 12:20

Received By : 
Date / Time : 11.14.24 12:20

Storage Area : VOA Refridgerator Room