

Cover Page

Order ID : Q2514

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number

Q2514-01
Q2514-02
Q2514-03
Q2514-04
Q2514-05
Q2514-06
Q2514-07
Q2514-08
Q2514-09
Q2514-10

Client Sample Number

TP-92
TP-93
TP-94
TP-96
TP-97
TP-103
TP-36
TP-78
TP-81
TP-90

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

Signature : _____

Date: 7/16/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2514

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MAHESH PATEL

Date: 07/16/2025

LAB CHRONICLE

OrderID:	Q2514	OrderDate:	7/3/2025 1:29:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	O21,O22,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2514-01	TP-92	SOIL			07/02/25			07/03/25
			Diesel Range Organics	8015D		07/08/25	07/08/25	
			Gasoline Range Organics	8015D			07/09/25	
			PCB	8082A		07/07/25	07/08/25	
			Pesticide-TCL	8081B		07/07/25	07/07/25	
Q2514-02	TP-93	SOIL			07/02/25			07/03/25
			Diesel Range Organics	8015D		07/08/25	07/08/25	
			Gasoline Range Organics	8015D			07/09/25	
			PCB	8082A		07/07/25	07/08/25	
			Pesticide-TCL	8081B		07/07/25	07/07/25	
Q2514-03	TP-94	SOIL			07/02/25			07/03/25
			Diesel Range Organics	8015D		07/08/25	07/08/25	
			Gasoline Range Organics	8015D			07/09/25	
			PCB	8082A		07/07/25	07/08/25	
			Pesticide-TCL	8081B		07/07/25	07/07/25	
Q2514-04	TP-96	SOIL			07/02/25			07/03/25
			Diesel Range Organics	8015D		07/08/25	07/08/25	
			Gasoline Range Organics	8015D			07/09/25	
			PCB	8082A		07/07/25	07/08/25	
			Pesticide-TCL	8081B		07/07/25	07/07/25	
Q2514-05	TP-97	SOIL			07/02/25			07/03/25
			Diesel Range Organics	8015D		07/08/25	07/08/25	
			Gasoline Range Organics	8015D			07/09/25	
			PCB	8082A		07/07/25	07/08/25	
			Pesticide-TCL	8081B		07/07/25	07/07/25	
Q2514-06	TP-103	SOIL			07/02/25			07/03/25
			Diesel Range Organics	8015D		07/08/25	07/08/25	

LAB CHRONICLE

Q2514-07	TP-36	SOIL	Gasoline Range Organics	8015D		07/09/25
			PCB	8082A	07/07/25	07/08/25
			Pesticide-TCL	8081B	07/07/25	07/07/25
					07/03/25	07/03/25
Q2514-08	TP-78	SOIL	Diesel Range Organics	8015D	07/08/25	07/08/25
			Gasoline Range Organics	8015D		07/09/25
			PCB	8082A	07/07/25	07/08/25
			Pesticide-TCL	8081B	07/07/25	07/07/25
Q2514-09	TP-81	SOIL			07/03/25	07/03/25
			Diesel Range Organics	8015D	07/08/25	07/08/25
			Gasoline Range Organics	8015D		07/09/25
			PCB	8082A	07/07/25	07/08/25
Q2514-10	TP-90	SOIL	Pesticide-TCL	8081B	07/07/25	07/07/25
					07/03/25	07/03/25
			Diesel Range Organics	8015D	07/08/25	07/08/25
			Gasoline Range Organics	8015D		07/09/25
Q2514-10	TP-90	SOIL	PCB	8082A	07/07/25	07/08/25
			Pesticide-TCL	8081B	07/07/25	07/07/25
					07/03/25	07/03/25
			Diesel Range Organics	8015D	07/08/25	07/08/25
Q2514-10	TP-90	SOIL	Gasoline Range Organics	8015D		07/09/25
			PCB	8082A	07/07/25	07/08/25
			Pesticide-TCL	8081B	07/07/25	07/07/25
					07/03/25	07/03/25



QC SUMMARY

SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Alliance

Client: CDM Smith

Lab Code: ACE

SDG No.: Q2514

CLIENT ID	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF016097.D	81				0
PIBLK-FF016105.D	74				0
PIBLK-FF016113.D	76				0
PIBLK-FG016244.D	90				0
PIBLK-FG016252.D	93				0
PIBLK-FG016260.D	96				0
PIBLK-FG016282.D	92				0
PIBLK-FG016286.D	94				0
PB168751BL	79				0
PB168751BS	90				0
G4(6-12)MS	54				0
G4(6-12)MSD	54				0
TP-92	49				0
TP-93	44				0
TP-94	51				0
TP-96	44				0
TP-97	48				0
TP-103	39				0
TP-36	45				0
TP-78	48				0
TP-81	46				0
TP-90	44				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: Alliance

Client: CDM Smith

Lab Code: ACE

SDG No: Q2514

Client Sample ID : G4(6-12)MS

Datafile: FG016249.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
DRO	9177	14500	18070	38%	*	68-131

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>CDM Smith</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2514</u>
Client Sample ID :	<u>G4(6-12)MSD</u>	Datafile:	<u>FG016250.D</u>

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
DRO	9164	14500	18533	44%	*	68-131

MS/MSD % Recovery RPD : 2.7

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

Lab Name: Alliance

Client: CDM Smith

Lab Code: ACE

SDG No: Q2514

Client Sample ID : PB168751BS

Datafile: FG016285.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
DRO	6660	0	5551	83	68-131

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB168751BL

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2514

Lab File ID: FG016247.D

Lab Sample ID: PB168751BL

Instrument ID: FG

Date Extracted: 07/08/2025

Matrix: (soil/water) Soil

Date Analyzed: 07/08/25

Level: (low/med) low

Time Analyzed: 15:24

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TP-90	Q2514-10	FF016101.D	07/08/25
TP-93	Q2514-02	FF016107.D	07/08/25
TP-96	Q2514-04	FF016108.D	07/08/25
TP-103	Q2514-06	FF016109.D	07/08/25
G4 (6-12)MS	Q2487-10MS	FG016249.D	07/08/25
G4 (6-12)MSD	Q2487-10MSD	FG016250.D	07/08/25
TP-92	Q2514-01	FG016254.D	07/08/25
TP-94	Q2514-03	FG016255.D	07/08/25
TP-97	Q2514-05	FG016256.D	07/08/25
TP-36	Q2514-07	FG016257.D	07/08/25
TP-78	Q2514-08	FG016258.D	07/08/25
TP-81	Q2514-09	FG016259.D	07/08/25
PB168751BS	PB168751BS	FG016285.D	07/10/25

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-92	SDG No.:	Q2514
Lab Sample ID:	Q2514-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	87.4
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
FG016254.D	1	07/08/25 08:35	07/08/25 19:54	PB168751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2460		193	1900	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	9.74		37 - 130	49%	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\FG070825\
Data File : FG016254.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 19:54
Operator : YP\AJ
Sample : Q2514-01
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-92

Integration File: Sample.e
Quant Time: Jul 09 03:15:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.201	1142528	9.740 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

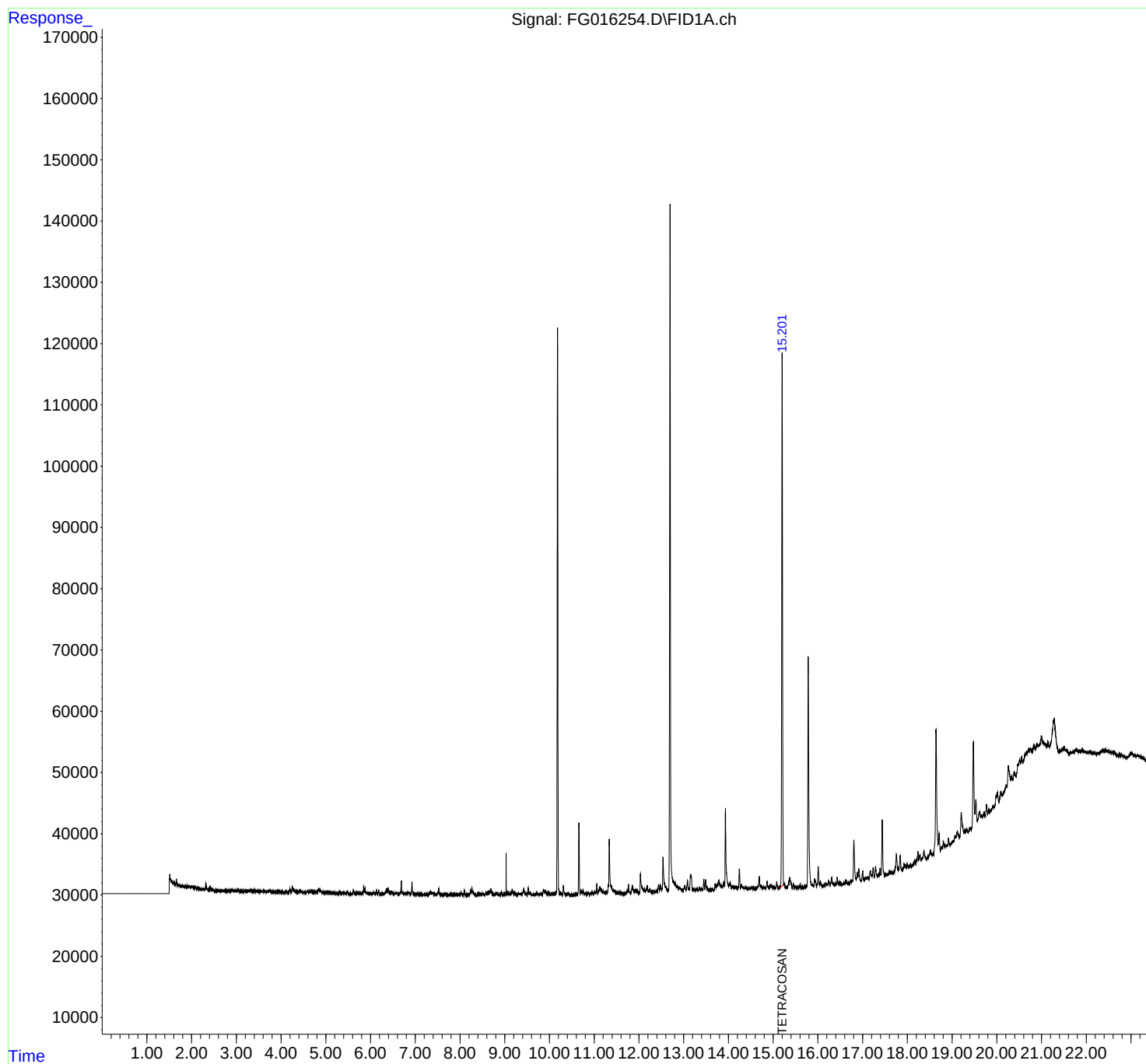
(m)=manual int.

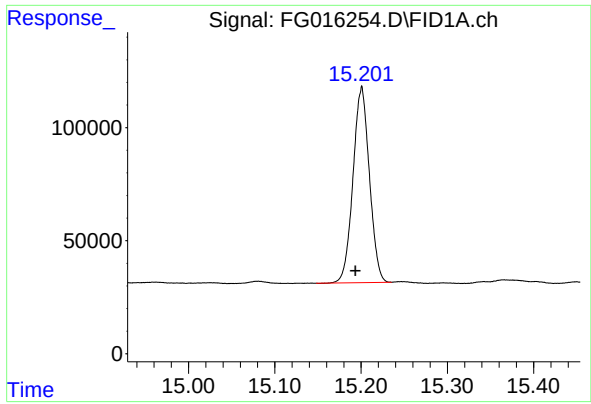
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016254.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 19:54
Operator : YP\AJ
Sample : Q2514-01
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-92

Integration File: Sample.e
Quant Time: Jul 09 03:15:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.201 min
Delta R.T.: 0.007 min
Response: 1142528
Conc: 9.74 ug/ml

Instrument :
FID_G
ClientSampleId :
TP-92

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
 Data File : FG016254.D
 Signal(s) : FID1A.ch
 Acq On : 08 Jul 2025 19:54
 Sample : Q2514-01
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.543	4.534	4.553	HH	248	2097	0.15%	0.022%
2	4.559	4.553	4.564	HH	230	1254	0.09%	0.013%
3	4.595	4.564	4.620	HH	343	8166	0.59%	0.085%
4	4.633	4.620	4.656	HH	384	5910	0.43%	0.062%
5	4.662	4.656	4.664	HH	306	1392	0.10%	0.015%
6	4.671	4.664	4.696	HH	489	6390	0.46%	0.067%
7	4.711	4.696	4.725	HH	327	4568	0.33%	0.048%
8	4.730	4.725	4.752	HH	290	3702	0.27%	0.039%
9	4.766	4.752	4.786	HH	274	4872	0.35%	0.051%
10	4.802	4.786	4.812	HH	362	4400	0.32%	0.046%
11	4.839	4.812	4.852	HH	765	12029	0.87%	0.125%
12	4.870	4.852	4.946	HH	572	17230	1.25%	0.180%
13	4.957	4.946	4.972	HH	187	1955	0.14%	0.020%
14	5.006	4.972	5.011	HH	183	2780	0.20%	0.029%
15	5.015	5.011	5.019	HH	135	579	0.04%	0.006%
16	5.050	5.019	5.066	HH	223	4346	0.31%	0.045%
17	5.074	5.066	5.078	HH	164	941	0.07%	0.010%
18	5.083	5.078	5.090	HH	186	875	0.06%	0.009%
19	5.096	5.090	5.102	HH	131	654	0.05%	0.007%
20	5.110	5.102	5.118	HH	145	907	0.07%	0.009%
21	5.126	5.118	5.147	HH	153	1708	0.12%	0.018%
22	5.153	5.147	5.186	HH	89	1532	0.11%	0.016%
23	5.188	5.186	5.211	HH	144	1313	0.09%	0.014%
24	5.224	5.211	5.242	HH	101	1074	0.08%	0.011%
25	5.247	5.242	5.252	HH	62	309	0.02%	0.003%
26	5.258	5.252	5.261	HH	110	312	0.02%	0.003%
27	5.264	5.261	5.268	HH	36	181	0.01%	0.002%
28	5.275	5.268	5.304	PH	108	654	0.05%	0.007%
29	5.328	5.304	5.347	HH	256	3001	0.22%	0.031%
30	5.352	5.347	5.368	HH	105	458	0.03%	0.005%
31	5.382	5.368	5.411	PH	174	2473	0.18%	0.026%
32	5.424	5.411	5.466	HH	208	2304	0.17%	0.024%
33	5.479	5.466	5.516	HH	188	2260	0.16%	0.024%
34	5.520	5.516	5.525	PH	16	-122	-0.01%	-0.001%
35	5.538	5.525	5.544	PH	9	-383	-0.03%	-0.004%
36	5.559	5.544	5.576	PH	53	-208	-0.02%	-0.002%

					rteres			
37	5.619	5.576	5.640	PH	644	5311	0.38%	0.055%
38	5.656	5.640	5.677	HH	195	1550	0.11%	0.016%
39	5.685	5.677	5.726	PH	74	288	0.02%	0.003%
40	5.748	5.726	5.753	PH	10	-230	-0.02%	-0.002%
41	5.759	5.753	5.766	PH	80	-126	-0.01%	-0.001%
42	5.773	5.766	5.786	PH	6	-421	-0.03%	-0.004%
43	5.816	5.786	5.832	PH	96	78	0.01%	0.001%
44	5.847	5.832	5.862	PH	1225	11276	0.82%	0.117%
45	5.875	5.862	5.906	HH	848	8950	0.65%	0.093%
46	5.920	5.906	5.939	HH	138	893	0.06%	0.009%
47	5.943	5.939	5.957	PH	30	-126	-0.01%	-0.001%
48	5.964	5.957	5.977	PH	69	52	0.00%	0.001%
49	5.994	5.977	6.000	PH	57	63	0.00%	0.001%
50	6.009	6.000	6.024	PH	81	133	0.01%	0.001%
51	6.049	6.024	6.054	PH	103	-52	-0.00%	-0.001%
52	6.066	6.054	6.100	PH	199	1626	0.12%	0.017%
53	6.105	6.100	6.115	PH	-1	-95	-0.01%	-0.001%
54	6.132	6.115	6.156	PH	537	4749	0.34%	0.049%
55	6.182	6.156	6.204	PH	602	4851	0.35%	0.051%
56	6.208	6.204	6.237	PH	-6	-1620	-0.12%	-0.017%
57	6.274	6.237	6.286	PH	20	-1512	-0.11%	-0.016%
58	6.291	6.286	6.295	PH	-36	-341	-0.02%	-0.004%
59	6.304	6.295	6.310	PH	6	-484	-0.03%	-0.005%
60	6.330	6.310	6.338	PH	232	1459	0.11%	0.015%
61	6.354	6.338	6.377	HH	835	12063	0.87%	0.126%
62	6.398	6.377	6.441	HH	737	13000	0.94%	0.135%
63	6.464	6.441	6.525	PH	429	4553	0.33%	0.047%
64	6.539	6.525	6.560	PH	23	195	0.01%	0.002%
65	6.565	6.560	6.571	PH	125	304	0.02%	0.003%
66	6.576	6.571	6.607	PH	87	193	0.01%	0.002%
67	6.623	6.607	6.632	PH	-1	-857	-0.06%	-0.009%
68	6.639	6.632	6.648	PH	77	23	0.00%	0.000%
69	6.651	6.648	6.661	PH	33	-57	-0.00%	-0.001%
70	6.688	6.661	6.728	PH	2067	21933	1.59%	0.229%
71	6.739	6.728	6.779	PH	109	-368	-0.03%	-0.004%
72	6.781	6.779	6.787	PH	41	3	0.00%	0.000%
73	6.794	6.787	6.824	PH	114	1095	0.08%	0.011%
74	6.851	6.824	6.898	PH	157	2040	0.15%	0.021%
75	6.926	6.898	6.959	PH	1810	15883	1.15%	0.165%
76	6.961	6.959	6.973	PH	188	-387	-0.03%	-0.004%
77	6.979	6.973	6.995	PH	-34	-1088	-0.08%	-0.011%
78	7.010	6.995	7.032	PH	-16	-2105	-0.15%	-0.022%
79	7.063	7.032	7.068	PH	-41	-2272	-0.16%	-0.024%
80	7.071	7.068	7.096	PH	-50	-2408	-0.17%	-0.025%
81	7.111	7.096	7.126	PH	-39	-2082	-0.15%	-0.022%
82	7.137	7.126	7.156	PH	-5	-1488	-0.11%	-0.016%
83	7.183	7.156	7.204	PH	-97	-4747	-0.34%	-0.049%
84	7.209	7.204	7.213	PH	-179	-1078	-0.08%	-0.011%
85	7.266	7.213	7.290	PH	-28	-6730	-0.49%	-0.070%
86	7.314	7.290	7.331	PH	324	747	0.05%	0.008%
87	7.350	7.331	7.369	PH	235	2281	0.16%	0.024%
88	7.387	7.369	7.417	HH	173	1451	0.10%	0.015%
89	7.424	7.417	7.462	PH	-9	-2995	-0.22%	-0.031%

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90	7.466	7.462	7.471	PH	-182	-1045	-0.08%	-0.011%
91	7.497	7.471	7.507	PH	52	-1588	-0.11%	-0.017%
92	7.523	7.507	7.602	PH	821	1400	0.10%	0.015%
93	7.609	7.602	7.620	PH	-204	-2455	-0.18%	-0.026%
94	7.636	7.620	7.648	PH	-71	-2597	-0.19%	-0.027%
95	7.653	7.648	7.656	PH	-188	-952	-0.07%	-0.010%
96	7.671	7.656	7.686	PH	48	-1794	-0.13%	-0.019%
97	7.689	7.686	7.697	PH	-183	-1533	-0.11%	-0.016%
98	7.707	7.697	7.752	PH	-119	-6933	-0.50%	-0.072%
99	7.757	7.752	7.769	PH	-184	-2184	-0.16%	-0.023%
100	7.804	7.769	7.841	PH	35	-5325	-0.39%	-0.055%
101	7.846	7.841	7.853	PH	-179	-1530	-0.11%	-0.016%
102	7.865	7.853	7.877	PH	-72	-2170	-0.16%	-0.023%
103	7.886	7.877	7.897	PH	-117	-2224	-0.16%	-0.023%
104	7.925	7.897	7.958	PH	-70	-6172	-0.45%	-0.064%
105	7.981	7.958	8.006	PH	-152	-6038	-0.44%	-0.063%
106	8.024	8.006	8.044	PH	399	615	0.04%	0.006%
107	8.050	8.044	8.071	PH	-132	-3475	-0.25%	-0.036%
108	8.097	8.071	8.119	PH	610	2038	0.15%	0.021%
109	8.124	8.119	8.136	PH	-174	-2140	-0.15%	-0.022%
110	8.138	8.136	8.147	PH	-184	-1629	-0.12%	-0.017%
111	8.158	8.147	8.167	PH	-175	-2822	-0.20%	-0.029%
112	8.173	8.167	8.179	PH	-158	-1607	-0.12%	-0.017%
113	8.184	8.179	8.189	PH	-220	-1322	-0.10%	-0.014%
114	8.194	8.189	8.207	PH	-175	-2740	-0.20%	-0.029%
115	8.234	8.207	8.250	PH	468	3556	0.26%	0.037%
116	8.267	8.250	8.282	HH	966	9806	0.71%	0.102%
117	8.292	8.282	8.320	HH	297	1301	0.09%	0.014%
118	8.340	8.320	8.368	PH	-114	-5558	-0.40%	-0.058%
119	8.407	8.368	8.416	PH	-63	-4616	-0.33%	-0.048%
120	8.423	8.416	8.437	PH	-54	-1295	-0.09%	-0.013%
121	8.443	8.437	8.453	PH	-78	-1030	-0.07%	-0.011%
122	8.456	8.453	8.460	PH	-124	-557	-0.04%	-0.006%
123	8.474	8.460	8.485	PH	-113	-2605	-0.19%	-0.027%
124	8.517	8.485	8.547	PH	19	-4671	-0.34%	-0.049%
125	8.553	8.547	8.556	PH	-125	-1090	-0.08%	-0.011%
126	8.584	8.556	8.606	PH	354	1659	0.12%	0.017%
127	8.622	8.606	8.639	PH	219	1605	0.12%	0.017%
128	8.661	8.639	8.665	HH	262	2428	0.18%	0.025%
129	8.692	8.665	8.736	HH	771	10812	0.78%	0.113%
130	8.746	8.736	8.767	PH	-65	-2379	-0.17%	-0.025%
131	8.773	8.767	8.790	PH	-99	-2115	-0.15%	-0.022%
132	8.807	8.790	8.827	PH	176	-213	-0.02%	-0.002%
133	8.834	8.827	8.841	PH	-88	-987	-0.07%	-0.010%
134	8.856	8.841	8.862	PH	-95	-1800	-0.13%	-0.019%
135	8.866	8.862	8.881	PH	-66	-1552	-0.11%	-0.016%
136	8.896	8.881	8.900	PH	-116	-2119	-0.15%	-0.022%
137	8.924	8.900	8.953	PH	288	-2045	-0.15%	-0.021%
138	8.976	8.953	8.984	PH	-124	-3867	-0.28%	-0.040%
139	9.030	8.984	9.042	PH	3337	2036	0.15%	0.021%
140	9.063	9.042	9.081	PH	139	853	0.06%	0.009%
141	9.095	9.081	9.113	PH	97	435	0.03%	0.005%

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142	9.136	9.113	9.149	PH	132	377	0.03%	0.004%
143	9.166	9.149	9.214	PH	749	6161	0.45%	0.064%
144	9.237	9.214	9.276	PH	141	-2839	-0.21%	-0.030%
145	9.281	9.276	9.287	PH	-165	-1303	-0.09%	-0.014%
146	9.301	9.287	9.338	PH	59	-2368	-0.17%	-0.025%
147	9.350	9.338	9.368	PH	28	-1006	-0.07%	-0.010%
148	9.388	9.368	9.394	PH	7	-821	-0.06%	-0.009%
149	9.421	9.394	9.460	PH	693	10451	0.76%	0.109%
150	9.474	9.460	9.494	PH	-12	-2219	-0.16%	-0.023%
151	9.523	9.494	9.548	PH	945	7772	0.56%	0.081%
152	9.559	9.548	9.628	PH	55	-4743	-0.34%	-0.049%
153	9.630	9.628	9.637	PH	-113	-807	-0.06%	-0.008%
154	9.641	9.637	9.646	PH	-155	-925	-0.07%	-0.010%
155	9.654	9.646	9.664	PH	-161	-1992	-0.14%	-0.021%
156	9.677	9.664	9.694	PH	-61	-2565	-0.19%	-0.027%
157	9.713	9.694	9.740	PH	101	-1767	-0.13%	-0.018%
158	9.745	9.740	9.757	PH	-105	-1693	-0.12%	-0.018%
159	9.763	9.757	9.784	PH	-87	-2605	-0.19%	-0.027%
160	9.793	9.784	9.805	PH	-162	-2289	-0.17%	-0.024%
161	9.819	9.805	9.842	PH	72	-1728	-0.12%	-0.018%
162	9.863	9.842	9.887	PH	665	8204	0.59%	0.085%
163	9.906	9.887	9.934	HH	564	7849	0.57%	0.082%
164	9.947	9.934	9.962	PH	58	-245	-0.02%	-0.003%
165	9.987	9.962	10.022	PH	198	74	0.01%	0.001%
166	10.067	10.022	10.086	PH	21	-1719	-0.12%	-0.018%
167	10.090	10.086	10.119	PH	25	-2077	-0.15%	-0.022%
168	10.149	10.119	10.156	PH	280	1301	0.09%	0.014%
169	10.180	10.156	10.234	HH	91966	932833	67.45%	9.719%
170	10.247	10.234	10.281	PH	246	173	0.01%	0.002%
171	10.312	10.281	10.366	PH	1264	9552	0.69%	0.100%
172	10.381	10.366	10.398	PH	-100	-2603	-0.19%	-0.027%
173	10.417	10.398	10.430	PH	172	21	0.00%	0.000%
174	10.434	10.430	10.442	PH	-117	-1093	-0.08%	-0.011%
175	10.451	10.442	10.471	PH	-90	-2323	-0.17%	-0.024%
176	10.483	10.471	10.491	PH	-103	-1614	-0.12%	-0.017%
177	10.494	10.491	10.547	PH	-104	-6378	-0.46%	-0.066%
178	10.552	10.547	10.557	PH	-166	-1165	-0.08%	-0.012%
179	10.567	10.557	10.573	PH	-132	-1705	-0.12%	-0.018%
180	10.583	10.573	10.601	PH	-141	-3315	-0.24%	-0.035%
181	10.618	10.601	10.625	PH	-132	-2697	-0.20%	-0.028%
182	10.658	10.625	10.687	PH	11563	117068	8.46%	1.220%
183	10.705	10.687	10.732	HH	478	5844	0.42%	0.061%
184	10.756	10.732	10.774	HH	426	4986	0.36%	0.052%
185	10.797	10.774	10.824	PH	62	-837	-0.06%	-0.009%
186	10.848	10.824	10.893	PH	81	-687	-0.05%	-0.007%
187	10.909	10.893	10.915	PH	-11	-622	-0.04%	-0.006%
188	10.947	10.915	10.954	PH	102	1143	0.08%	0.012%
189	10.960	10.954	10.981	HH	152	1001	0.07%	0.010%
190	10.983	10.981	10.994	PH	46	54	0.00%	0.001%
191	11.009	10.994	11.027	PH	507	3807	0.28%	0.040%
192	11.057	11.027	11.079	PH	1388	17251	1.25%	0.180%
193	11.129	11.079	11.149	HH	1122	24888	1.80%	0.259%
194	11.157	11.149	11.181	HH	600	8523	0.62%	0.089%

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195	11.196	11.181	11.244	HH	437	10285	0.74%	0.107%
196	11.254	11.244	11.266	HH	166	1490	0.11%	0.016%
197	11.286	11.266	11.292	HH	223	2640	0.19%	0.028%
198	11.316	11.292	11.322	HH	1486	13261	0.96%	0.138%
199	11.335	11.322	11.381	HH	8847	122138	8.83%	1.273%
200	11.388	11.381	11.421	HH	1132	18086	1.31%	0.188%
201	11.434	11.421	11.482	HH	570	13107	0.95%	0.137%
202	11.489	11.482	11.509	HH	325	3884	0.28%	0.040%
203	11.514	11.509	11.527	HH	287	2080	0.15%	0.022%
204	11.534	11.527	11.560	HH	164	1809	0.13%	0.019%
205	11.571	11.560	11.594	PH	209	2203	0.16%	0.023%
206	11.601	11.594	11.641	HH	129	1041	0.08%	0.011%
207	11.645	11.641	11.676	PH	12	-903	-0.07%	-0.009%
208	11.704	11.676	11.709	PH	126	1011	0.07%	0.011%
209	11.739	11.709	11.746	HH	395	4971	0.36%	0.052%
210	11.766	11.746	11.806	HH	1508	21515	1.56%	0.224%
211	11.815	11.806	11.819	HH	189	1276	0.09%	0.013%
212	11.852	11.819	11.903	HH	1304	32175	2.33%	0.335%
213	11.928	11.903	11.946	HH	554	11008	0.80%	0.115%
214	11.959	11.946	11.988	HH	572	9113	0.66%	0.095%
215	11.993	11.988	11.997	HH	182	723	0.05%	0.008%
216	12.010	11.997	12.014	HH	185	1320	0.10%	0.014%
217	12.032	12.014	12.111	HH	3226	70141	5.07%	0.731%
218	12.123	12.111	12.144	HH	692	10041	0.73%	0.105%
219	12.159	12.144	12.169	HH	644	7793	0.56%	0.081%
220	12.186	12.169	12.221	HH	1290	22119	1.60%	0.230%
221	12.242	12.221	12.291	HH	583	15391	1.11%	0.160%
222	12.299	12.291	12.320	HH	288	4289	0.31%	0.045%
223	12.334	12.320	12.359	HH	322	6119	0.44%	0.064%
224	12.376	12.359	12.398	HH	441	7725	0.56%	0.080%
225	12.441	12.398	12.461	HH	1470	28270	2.04%	0.295%
226	12.481	12.461	12.512	HH	1262	28355	2.05%	0.295%
227	12.538	12.512	12.637	HH	5885	136365	9.86%	1.421%
228	12.660	12.637	12.664	HH	726	10435	0.75%	0.109%
229	12.696	12.664	12.767	HH	111743	1383000	100.00%	14.409%
230	12.775	12.767	12.794	HH	1969	27985	2.02%	0.292%
231	12.806	12.794	12.894	HH	1746	72382	5.23%	0.754%
232	12.917	12.894	12.954	HH	954	27391	1.98%	0.285%
233	12.957	12.954	12.967	HH	607	4124	0.30%	0.043%
234	12.974	12.967	12.994	HH	636	9264	0.67%	0.097%
235	13.023	12.994	13.056	HH	1245	32448	2.35%	0.338%
236	13.085	13.056	13.124	HH	2042	45414	3.28%	0.473%
237	13.151	13.124	13.159	HH	2969	37154	2.69%	0.387%
238	13.169	13.159	13.199	HH	2965	44752	3.24%	0.466%
239	13.210	13.199	13.257	HH	664	21233	1.54%	0.221%
240	13.297	13.257	13.327	HH	832	26244	1.90%	0.273%
241	13.346	13.327	13.378	HH	864	22535	1.63%	0.235%
242	13.382	13.378	13.394	HH	772	6834	0.49%	0.071%
243	13.410	13.394	13.413	HH	728	7754	0.56%	0.081%
244	13.416	13.413	13.428	HH	713	6019	0.44%	0.063%
245	13.450	13.428	13.469	HH	2246	33779	2.44%	0.352%
246	13.490	13.469	13.532	HH	2301	48975	3.54%	0.510%

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247	13.538	13.532	13.568	HH	750	13368	0.97%	0.139%
248	13.589	13.568	13.606	HH	713	14442	1.04%	0.150%
249	13.621	13.606	13.634	HH	725	11105	0.80%	0.116%
250	13.648	13.634	13.680	HH	808	17926	1.30%	0.187%
251	13.704	13.680	13.725	HH	1633	29749	2.15%	0.310%
252	13.749	13.725	13.761	HH	1546	27997	2.02%	0.292%
253	13.780	13.761	13.865	HH	2140	93324	6.75%	0.972%
254	13.896	13.865	13.916	HH	1717	42635	3.08%	0.444%
255	13.933	13.916	14.011	HH	13936	235777	17.05%	2.457%
256	14.037	14.011	14.075	HH	1798	52916	3.83%	0.551%
257	14.081	14.075	14.133	HH	1058	34653	2.51%	0.361%
258	14.153	14.133	14.177	HH	1125	26615	1.92%	0.277%
259	14.192	14.177	14.207	HH	1027	16997	1.23%	0.177%
260	14.244	14.207	14.271	HH	4003	70831	5.12%	0.738%
261	14.293	14.271	14.344	HH	1498	48135	3.48%	0.502%
262	14.364	14.344	14.376	HH	972	17797	1.29%	0.185%
263	14.387	14.376	14.459	HH	933	41909	3.03%	0.437%
264	14.480	14.459	14.500	HH	861	20205	1.46%	0.211%
265	14.529	14.500	14.556	HH	967	28876	2.09%	0.301%
266	14.568	14.556	14.584	HH	853	13680	0.99%	0.143%
267	14.610	14.584	14.626	HH	866	20470	1.48%	0.213%
268	14.688	14.626	14.719	HH	2765	81229	5.87%	0.846%
269	14.733	14.719	14.752	HH	1321	23319	1.69%	0.243%
270	14.785	14.752	14.806	HH	1088	30701	2.22%	0.320%
271	14.814	14.806	14.837	HH	992	17296	1.25%	0.180%
272	14.864	14.837	14.889	HH	1915	42020	3.04%	0.438%
273	14.896	14.889	14.909	HH	1114	12604	0.91%	0.131%
274	14.961	14.909	14.998	HH	1419	61928	4.48%	0.645%
275	15.026	14.998	15.047	HH	1201	30847	2.23%	0.321%
276	15.080	15.047	15.121	HH	1853	51249	3.71%	0.534%
277	15.142	15.121	15.152	HH	1020	17984	1.30%	0.187%
278	15.201	15.152	15.236	HH	88028	1201905	86.91%	12.523%
279	15.247	15.236	15.277	HH	1685	33203	2.40%	0.346%
280	15.296	15.277	15.317	HH	1129	24131	1.74%	0.251%
281	15.366	15.317	15.429	HH	2460	110603	8.00%	1.152%
282	15.449	15.429	15.479	HH	1594	35275	2.55%	0.368%
283	15.501	15.479	15.542	HH	1092	37288	2.70%	0.388%
284	15.554	15.542	15.567	HH	1054	15128	1.09%	0.158%
285	15.598	15.567	15.625	HH	1387	38961	2.82%	0.406%
286	15.642	15.625	15.652	HH	1034	16574	1.20%	0.173%
287	15.663	15.652	15.672	HH	1067	12291	0.89%	0.128%
288	15.721	15.672	15.747	HH	1218	49044	3.55%	0.511%
289	15.784	15.747	15.874	HH	38511	656496	47.47%	6.840%
290	15.880	15.874	15.906	HH	1401	25171	1.82%	0.262%
291	15.928	15.906	15.966	HH	2383	64663	4.68%	0.674%
292	16.009	15.966	16.039	HH	4424	99760	7.21%	1.039%
293	16.057	16.039	16.099	HH	2004	54989	3.98%	0.573%
294	16.110	16.099	16.132	HH	1350	25040	1.81%	0.261%
295	16.174	16.132	16.212	HH	1598	67805	4.90%	0.706%
296	16.245	16.212	16.277	HH	2074	64416	4.66%	0.671%
297	16.306	16.277	16.341	HH	2615	73215	5.29%	0.763%
298	16.348	16.341	16.375	HH	1550	30961	2.24%	0.323%
299	16.394	16.375	16.409	HH	1607	31816	2.30%	0.331%

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300	16.433	16.409	16.479	HH	2551	77343	5.59%	0.806%
301	16.495	16.479	16.549	HH	1741	66700	4.82%	0.695%
302	16.573	16.549	16.589	HH	1715	39250	2.84%	0.409%
303	16.622	16.589	16.652	HH	2243	69935	5.06%	0.729%
304	16.660	16.652	16.669	HH	1716	16843	1.22%	0.175%
305	16.683	16.669	16.705	HH	1719	36481	2.64%	0.380%
306	16.806	16.705	16.857	HH	8721	289224	20.91%	3.013%
307	16.882	16.857	16.896	HH	3353	66654	4.82%	0.694%
308	16.915	16.896	16.971	HH	4043	126034	9.11%	1.313%
309	17.001	16.971	17.029	HH	3626	95757	6.92%	0.998%
310	17.066	17.029	17.101	HH	2660	105437	7.62%	1.099%
311	17.120	17.101	17.144	HH	2812	66665	4.82%	0.695%
312	17.171	17.144	17.207	HH	3674	118445	8.56%	1.234%
313	17.235	17.207	17.262	HH	4157	110003	7.95%	1.146%
314	17.290	17.262	17.336	HH	4377	148777	10.76%	1.550%
315	17.356	17.336	17.367	HH	3094	56019	4.05%	0.584%
316	17.390	17.367	17.411	HH	4127	92508	6.69%	0.964%
317	17.440	17.411	17.501	HHA	12079	286300	20.70%	2.983%
					Sum of corrected areas:		9597894	

FG061325.M Wed Jul 09 05:46:45 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-93	SDG No.:	Q2514
Lab Sample ID:	Q2514-02	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	87.7
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
FF016107.D	1	07/08/25 08:35	07/08/25 17:54	PB168751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	13200		193	1900	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	8.76		37 - 130	44%	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\FF070825\
Data File : FF016107.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 17:54
Operator : YP\AJ
Sample : Q2514-02
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-93

Integration File: autoint1.e
Quant Time: Jul 09 02:38:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.102	1057270	8.756 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

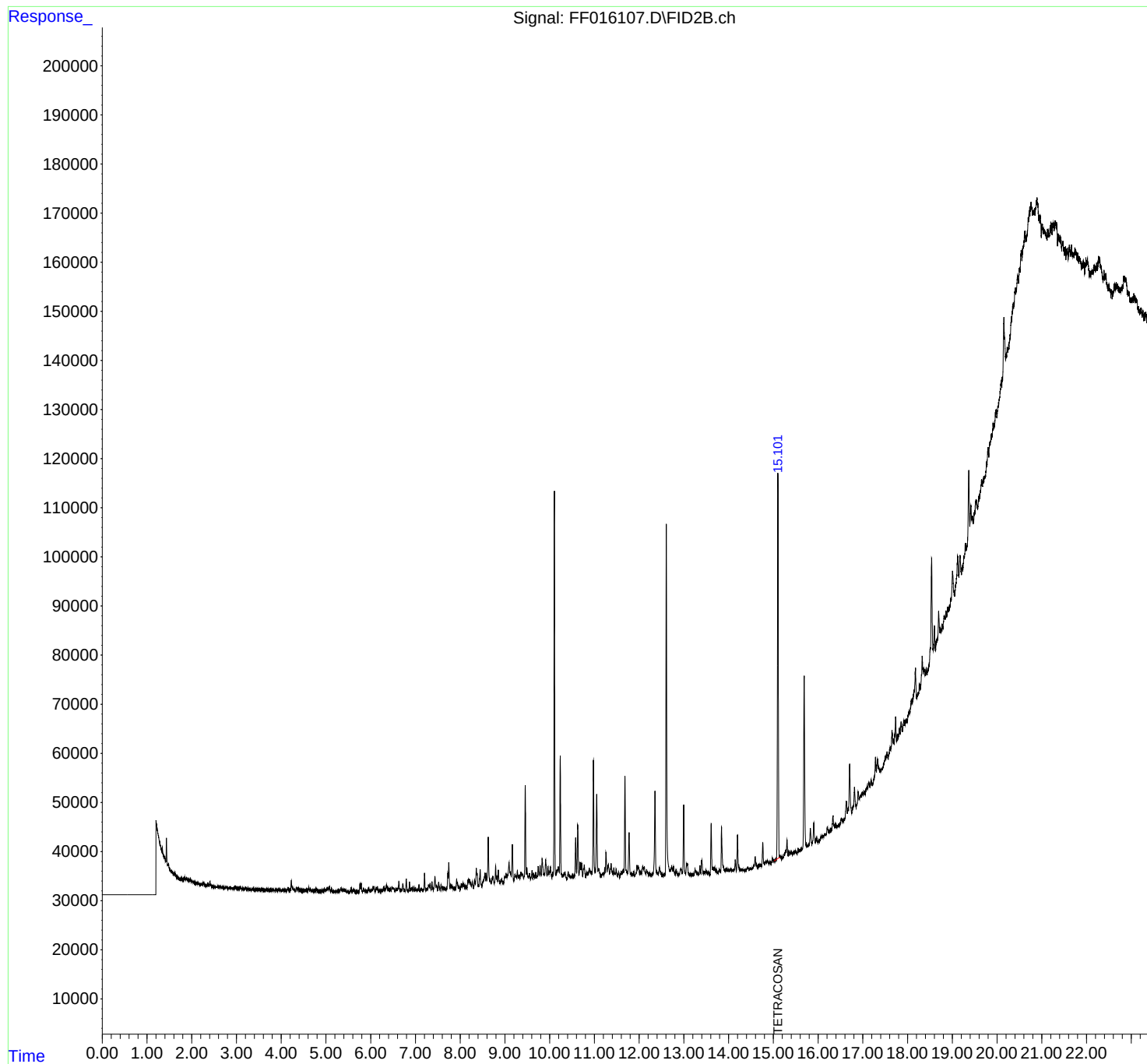
(m)=manual int.

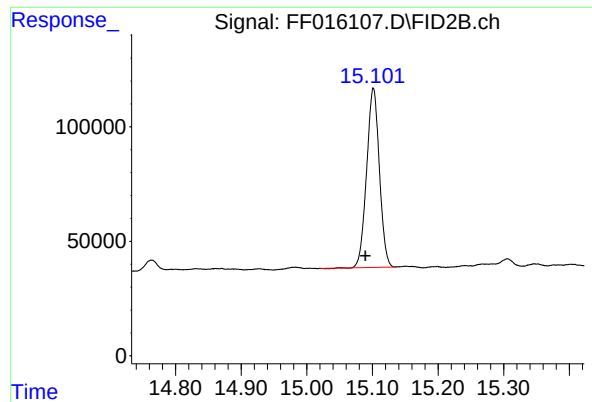
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
Data File : FF016107.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 17:54
Operator : YP\AJ
Sample : Q2514-02
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-93

Integration File: autoint1.e
Quant Time: Jul 09 02:38:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.102 min
Delta R.T.: 0.012 min
Response: 1057270
Conc: 8.76 ug/ml

Instrument :
FID_F
ClientSampleId :
TP-93

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
Data File : FF016107.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 17:54
Sample : Q2514-02
Misc :
ALS Vial : 76 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.511	4.506	4.516	HH	839	4717	0.35%	0.010%
2	4.530	4.516	4.544	HH	983	14590	1.07%	0.031%
3	4.550	4.544	4.557	HH	930	6659	0.49%	0.014%
4	4.573	4.557	4.586	HH	971	15569	1.14%	0.033%
5	4.617	4.586	4.642	HH	1594	34697	2.54%	0.073%
6	4.656	4.642	4.671	HH	1147	16384	1.20%	0.034%
7	4.678	4.671	4.683	HH	823	5872	0.43%	0.012%
8	4.690	4.683	4.726	HH	904	20513	1.50%	0.043%
9	4.745	4.726	4.759	HH	863	15796	1.16%	0.033%
10	4.781	4.759	4.821	HH	1110	32259	2.36%	0.067%
11	4.830	4.821	4.856	HH	791	15831	1.16%	0.033%
12	4.872	4.856	4.888	HH	832	13957	1.02%	0.029%
13	4.904	4.888	4.917	HH	914	13678	1.00%	0.029%
14	4.930	4.917	4.948	HH	894	14723	1.08%	0.031%
15	4.965	4.948	4.981	HH	1014	17971	1.31%	0.038%
16	4.983	4.981	4.995	HH	996	7921	0.58%	0.017%
17	5.034	4.995	5.056	HH	1349	39696	2.90%	0.083%
18	5.076	5.056	5.105	HH	1468	32550	2.38%	0.068%
19	5.122	5.105	5.153	HH	1114	25178	1.84%	0.053%
20	5.157	5.153	5.162	HH	719	3263	0.24%	0.007%
21	5.169	5.162	5.177	HH	677	5790	0.42%	0.012%
22	5.198	5.177	5.221	HH	828	17920	1.31%	0.037%
23	5.234	5.221	5.256	HH	800	14469	1.06%	0.030%
24	5.279	5.256	5.284	HH	790	11953	0.87%	0.025%
25	5.299	5.284	5.307	HH	892	11161	0.82%	0.023%
26	5.338	5.307	5.356	HH	1422	30706	2.25%	0.064%
27	5.376	5.356	5.395	HH	1190	22237	1.63%	0.047%
28	5.409	5.395	5.424	HH	1109	16287	1.19%	0.034%
29	5.441	5.424	5.464	HH	1049	18804	1.38%	0.039%
30	5.468	5.464	5.487	HH	604	7331	0.54%	0.015%
31	5.506	5.487	5.523	HH	629	11618	0.85%	0.024%
32	5.563	5.523	5.586	HH	1467	30646	2.24%	0.064%
33	5.610	5.586	5.631	HH	963	22087	1.62%	0.046%
34	5.640	5.631	5.656	HH	942	11304	0.83%	0.024%
35	5.673	5.656	5.683	HH	670	9858	0.72%	0.021%
36	5.701	5.683	5.723	HH	683	14696	1.07%	0.031%

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37	5.728	5.723	5.736	HH	641	4740	0.35%	0.010%
38	5.760	5.736	5.775	HH	2250	32474	2.38%	0.068%
39	5.790	5.775	5.817	HH	2318	33667	2.46%	0.070%
40	5.840	5.817	5.863	HH	1380	25777	1.89%	0.054%
41	5.867	5.863	5.895	HH	790	13735	1.00%	0.029%
42	5.901	5.895	5.910	HH	957	6270	0.46%	0.013%
43	5.917	5.910	5.926	HH	735	6631	0.48%	0.014%
44	5.952	5.926	5.978	HH	1395	30220	2.21%	0.063%
45	5.982	5.978	6.002	HH	832	11278	0.82%	0.024%
46	6.026	6.002	6.039	HH	1084	19187	1.40%	0.040%
47	6.053	6.039	6.063	HH	1648	19300	1.41%	0.040%
48	6.075	6.063	6.098	HH	1623	24817	1.82%	0.052%
49	6.126	6.098	6.137	HH	1442	24311	1.78%	0.051%
50	6.150	6.137	6.173	HH	1668	24217	1.77%	0.051%
51	6.194	6.173	6.218	HH	954	21517	1.57%	0.045%
52	6.240	6.218	6.261	HH	1035	21596	1.58%	0.045%
53	6.294	6.261	6.316	HH	1719	36958	2.70%	0.077%
54	6.353	6.316	6.382	HH	2020	55600	4.07%	0.116%
55	6.400	6.382	6.420	HH	1343	25098	1.84%	0.053%
56	6.437	6.420	6.455	HH	1274	21528	1.57%	0.045%
57	6.476	6.455	6.494	HH	1527	28808	2.11%	0.060%
58	6.507	6.494	6.548	HH	1411	35270	2.58%	0.074%
59	6.565	6.548	6.584	HH	1352	22582	1.65%	0.047%
60	6.629	6.584	6.666	HH	2666	66044	4.83%	0.138%
61	6.677	6.666	6.697	HH	955	16432	1.20%	0.034%
62	6.721	6.697	6.752	HH	2126	44474	3.25%	0.093%
63	6.758	6.752	6.773	HH	844	10177	0.74%	0.021%
64	6.795	6.773	6.843	HH	3260	62028	4.54%	0.130%
65	6.867	6.843	6.893	HH	2678	42124	3.08%	0.088%
66	6.912	6.893	6.933	HH	1288	26320	1.93%	0.055%
67	6.947	6.933	6.973	HH	1682	28615	2.09%	0.060%
68	6.995	6.973	7.013	HH	1437	25957	1.90%	0.054%
69	7.023	7.013	7.032	HH	984	10063	0.74%	0.021%
70	7.048	7.032	7.061	HH	1053	16134	1.18%	0.034%
71	7.079	7.061	7.098	HH	2066	30367	2.22%	0.064%
72	7.124	7.098	7.128	HH	1112	16243	1.19%	0.034%
73	7.137	7.128	7.175	HH	1177	27026	1.98%	0.057%
74	7.203	7.175	7.228	HH	4422	63760	4.66%	0.133%
75	7.243	7.228	7.259	HH	1225	20154	1.47%	0.042%
76	7.291	7.259	7.312	HH	1925	46314	3.39%	0.097%
77	7.328	7.312	7.350	HH	2356	40268	2.95%	0.084%
78	7.370	7.350	7.400	HH	2678	46631	3.41%	0.098%
79	7.436	7.400	7.455	HH	3690	73310	5.36%	0.153%
80	7.459	7.455	7.469	HH	1781	14189	1.04%	0.030%
81	7.476	7.469	7.499	HH	1797	25576	1.87%	0.054%
82	7.519	7.499	7.557	HH	2616	54428	3.98%	0.114%
83	7.572	7.557	7.598	HH	2049	37341	2.73%	0.078%
84	7.613	7.598	7.632	HH	1617	27485	2.01%	0.057%
85	7.646	7.632	7.662	HH	1331	20665	1.51%	0.043%
86	7.680	7.662	7.684	HH	1200	15473	1.13%	0.032%
87	7.723	7.684	7.732	HH	4375	66871	4.89%	0.140%
88	7.745	7.732	7.769	HH	6551	84760	6.20%	0.177%
89	7.784	7.769	7.798	HH	2128	31517	2.31%	0.066%

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90	7.802	7.798	7.812	HH	1742	13460	0.98%	0.028%
91	7.815	7.812	7.857	HH	1752	39920	2.92%	0.084%
92	7.872	7.857	7.897	HH	1388	30648	2.24%	0.064%
93	7.921	7.897	7.931	HH	3096	44048	3.22%	0.092%
94	7.939	7.931	7.958	HH	2565	33682	2.46%	0.070%
95	7.974	7.958	7.995	HH	1775	33141	2.42%	0.069%
96	8.035	7.995	8.049	HH	2092	52789	3.86%	0.110%
97	8.063	8.049	8.076	HH	2427	32700	2.39%	0.068%
98	8.083	8.076	8.103	HH	1952	28937	2.12%	0.061%
99	8.119	8.103	8.152	HH	1850	47784	3.50%	0.100%
100	8.176	8.152	8.192	HH	3020	58100	4.25%	0.122%
101	8.205	8.192	8.220	HH	3185	46453	3.40%	0.097%
102	8.230	8.220	8.251	HH	2623	41808	3.06%	0.087%
103	8.271	8.251	8.295	HH	2675	53498	3.91%	0.112%
104	8.321	8.295	8.340	HH	2980	60973	4.46%	0.128%
105	8.361	8.340	8.373	HH	5432	76696	5.61%	0.160%
106	8.380	8.373	8.411	HH	4374	65488	4.79%	0.137%
107	8.447	8.411	8.485	HH	5162	127611	9.33%	0.267%
108	8.515	8.485	8.526	HH	3029	59970	4.39%	0.125%
109	8.554	8.526	8.567	HH	4441	88911	6.50%	0.186%
110	8.581	8.567	8.594	HH	4411	58073	4.25%	0.121%
111	8.627	8.594	8.658	HH	11733	219061	16.02%	0.458%
112	8.669	8.658	8.690	HH	3139	54090	3.96%	0.113%
113	8.736	8.690	8.760	HH	3722	128343	9.39%	0.268%
114	8.793	8.760	8.808	HH	5895	108190	7.91%	0.226%
115	8.819	8.808	8.835	HH	3759	53076	3.88%	0.111%
116	8.853	8.835	8.890	HH	5078	112021	8.19%	0.234%
117	8.926	8.890	8.947	HH	3262	94420	6.91%	0.198%
118	8.958	8.947	8.973	HH	2729	40837	2.99%	0.085%
119	9.004	8.973	9.013	HH	3668	78511	5.74%	0.164%
120	9.026	9.013	9.045	HH	4324	74570	5.45%	0.156%
121	9.052	9.045	9.060	HH	3934	33534	2.45%	0.070%
122	9.093	9.060	9.141	HH	6582	234889	17.18%	0.491%
123	9.167	9.141	9.193	HH	10255	191874	14.03%	0.401%
124	9.225	9.193	9.242	HH	4147	104127	7.62%	0.218%
125	9.253	9.242	9.262	HH	3755	43487	3.18%	0.091%
126	9.278	9.262	9.306	HH	4927	106167	7.77%	0.222%
127	9.318	9.306	9.335	HH	3786	62308	4.56%	0.130%
128	9.358	9.335	9.381	HH	4666	113266	8.28%	0.237%
129	9.400	9.381	9.417	HH	4225	85102	6.22%	0.178%
130	9.455	9.417	9.479	HH	22282	336398	24.61%	0.704%
131	9.492	9.479	9.524	HH	5542	118368	8.66%	0.248%
132	9.548	9.524	9.573	HH	4314	111418	8.15%	0.233%
133	9.607	9.573	9.625	HH	4890	120415	8.81%	0.252%
134	9.640	9.625	9.653	HH	4362	64797	4.74%	0.136%
135	9.660	9.653	9.674	HH	3889	47557	3.48%	0.099%
136	9.691	9.674	9.710	HH	4471	83498	6.11%	0.175%
137	9.720	9.710	9.724	HH	3765	30103	2.20%	0.063%
138	9.745	9.724	9.765	HH	5723	114380	8.37%	0.239%
139	9.787	9.765	9.809	HH	6002	125254	9.16%	0.262%
140	9.833	9.809	9.867	HH	7224	190244	13.92%	0.398%
141	9.877	9.867	9.889	HH	4313	54992	4.02%	0.115%

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142	9.911	9.889	9.943	HH	7148	175832	12.86%	0.368%
143	9.963	9.943	9.983	HH	5761	115196	8.43%	0.241%
144	10.017	9.983	10.046	HH	5730	174147	12.74%	0.364%
145	10.071	10.046	10.082	HH	4590	88233	6.45%	0.185%
146	10.106	10.082	10.137	HH	81693	909920	66.56%	1.903%
147	10.152	10.137	10.161	HH	4674	64849	4.74%	0.136%
148	10.173	10.161	10.181	HH	5087	57148	4.18%	0.120%
149	10.194	10.181	10.215	HH	5729	107153	7.84%	0.224%
150	10.238	10.215	10.293	HH	28292	446512	32.66%	0.934%
151	10.305	10.293	10.312	HH	4042	44999	3.29%	0.094%
152	10.323	10.312	10.329	HH	4107	40940	2.99%	0.086%
153	10.343	10.329	10.390	HH	4655	141073	10.32%	0.295%
154	10.415	10.390	10.444	HH	4656	127908	9.36%	0.268%
155	10.455	10.444	10.472	HH	3784	60486	4.42%	0.127%
156	10.474	10.472	10.498	HH	3728	58291	4.26%	0.122%
157	10.513	10.498	10.533	HH	4152	77236	5.65%	0.162%
158	10.580	10.533	10.603	HH	11619	251043	18.36%	0.525%
159	10.627	10.603	10.657	HH	14238	262877	19.23%	0.550%
160	10.680	10.657	10.699	HH	6527	137097	10.03%	0.287%
161	10.714	10.699	10.739	HH	6481	126184	9.23%	0.264%
162	10.773	10.739	10.808	HH	6016	195312	14.29%	0.409%
163	10.825	10.808	10.836	HH	4580	68877	5.04%	0.144%
164	10.853	10.836	10.861	HH	4341	63458	4.64%	0.133%
165	10.885	10.861	10.919	HH	5457	165828	12.13%	0.347%
166	10.932	10.919	10.947	HH	4850	74389	5.44%	0.156%
167	10.978	10.947	11.019	HH	27362	462302	33.82%	0.967%
168	11.051	11.019	11.083	HH	20436	388499	28.42%	0.813%
169	11.095	11.083	11.131	HH	5287	137413	10.05%	0.287%
170	11.140	11.131	11.160	HH	3986	69631	5.09%	0.146%
171	11.197	11.160	11.212	HH	4414	127795	9.35%	0.267%
172	11.233	11.212	11.244	HH	5339	92234	6.75%	0.193%
173	11.258	11.244	11.285	HH	8676	160173	11.72%	0.335%
174	11.312	11.285	11.340	HH	6016	172636	12.63%	0.361%
175	11.374	11.340	11.417	HH	6372	234080	17.12%	0.490%
176	11.434	11.417	11.453	HH	5532	102339	7.49%	0.214%
177	11.459	11.453	11.471	HH	4414	46932	3.43%	0.098%
178	11.488	11.471	11.515	HH	5128	117651	8.61%	0.246%
179	11.520	11.515	11.525	HH	3923	23711	1.73%	0.050%
180	11.542	11.525	11.567	HH	4659	104535	7.65%	0.219%
181	11.597	11.567	11.609	HH	4455	103463	7.57%	0.216%
182	11.626	11.609	11.633	HH	4594	63777	4.67%	0.133%
183	11.652	11.633	11.659	HH	4937	75105	5.49%	0.157%
184	11.683	11.659	11.743	HH	24150	454174	33.22%	0.950%
185	11.775	11.743	11.825	HH	12677	327668	23.97%	0.685%
186	11.838	11.825	11.861	HH	4350	89344	6.54%	0.187%
187	11.878	11.861	11.901	HH	4745	102317	7.48%	0.214%
188	11.948	11.901	11.964	HH	5969	180052	13.17%	0.377%
189	11.981	11.964	12.020	HH	5666	170093	12.44%	0.356%
190	12.039	12.020	12.052	HH	4713	86963	6.36%	0.182%
191	12.080	12.052	12.096	HH	5741	135604	9.92%	0.284%
192	12.116	12.096	12.153	HH	5687	169434	12.39%	0.354%
193	12.168	12.153	12.181	HH	5184	82716	6.05%	0.173%
194	12.190	12.181	12.213	HH	4737	84444	6.18%	0.177%

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195	12.222	12.213	12.226	HH	4318	31364	2.29%	0.066%
196	12.234	12.226	12.272	HH	4362	115431	8.44%	0.241%
197	12.289	12.272	12.308	HH	4255	88761	6.49%	0.186%
198	12.355	12.308	12.389	HH	21123	437088	31.97%	0.914%
199	12.397	12.389	12.422	HH	4703	87572	6.41%	0.183%
200	12.453	12.422	12.505	HH	5593	233283	17.06%	0.488%
201	12.509	12.505	12.531	HH	4224	62689	4.59%	0.131%
202	12.545	12.531	12.561	HH	4038	70167	5.13%	0.147%
203	12.608	12.561	12.686	HH	75426	1204931	88.14%	2.520%
204	12.690	12.686	12.705	HH	5015	55668	4.07%	0.116%
205	12.726	12.705	12.755	HH	5587	158683	11.61%	0.332%
206	12.769	12.755	12.803	HH	5819	140922	10.31%	0.295%
207	12.828	12.803	12.870	HH	4874	180312	13.19%	0.377%
208	12.884	12.870	12.903	HH	4285	81967	6.00%	0.171%
209	12.933	12.903	12.965	HH	5254	178764	13.08%	0.374%
210	12.997	12.965	13.038	HH	18360	362577	26.52%	0.758%
211	13.065	13.038	13.073	HH	6225	110864	8.11%	0.232%
212	13.078	13.073	13.105	HH	6179	105469	7.71%	0.221%
213	13.114	13.105	13.138	HH	4278	80349	5.88%	0.168%
214	13.141	13.138	13.170	HH	4182	80038	5.85%	0.167%
215	13.197	13.170	13.230	HH	4286	148134	10.84%	0.310%
216	13.252	13.230	13.292	HH	5048	169976	12.43%	0.356%
217	13.298	13.292	13.315	HH	4439	60549	4.43%	0.127%
218	13.326	13.315	13.337	HH	4359	54910	4.02%	0.115%
219	13.359	13.337	13.378	HH	5896	124012	9.07%	0.259%
220	13.401	13.378	13.432	HH	6993	181912	13.31%	0.381%
221	13.447	13.432	13.473	HH	4763	112523	8.23%	0.235%
222	13.495	13.473	13.521	HH	5004	132367	9.68%	0.277%
223	13.525	13.521	13.531	HH	4331	25594	1.87%	0.054%
224	13.551	13.531	13.581	HH	4549	129190	9.45%	0.270%
225	13.611	13.581	13.646	HH	14414	299405	21.90%	0.626%
226	13.663	13.646	13.672	HH	5337	81273	5.94%	0.170%
227	13.690	13.672	13.715	HH	5644	134813	9.86%	0.282%
228	13.726	13.715	13.752	HH	5073	107017	7.83%	0.224%
229	13.758	13.752	13.771	HH	4686	52591	3.85%	0.110%
230	13.799	13.771	13.819	HH	5051	138955	10.16%	0.291%
231	13.841	13.819	13.906	HH	13754	376379	27.53%	0.787%
232	13.911	13.906	13.915	HH	4989	28010	2.05%	0.059%
233	13.918	13.915	13.926	HH	5033	33312	2.44%	0.070%
234	13.947	13.926	13.975	HH	5346	148088	10.83%	0.310%
235	13.995	13.975	14.033	HH	5215	172408	12.61%	0.361%
236	14.053	14.033	14.093	HH	5235	183605	13.43%	0.384%
237	14.104	14.093	14.108	HH	5103	44901	3.28%	0.094%
238	14.149	14.108	14.172	HH	7110	214134	15.66%	0.448%
239	14.199	14.172	14.247	HH	12219	318176	23.27%	0.666%
240	14.258	14.247	14.286	HH	5249	119549	8.74%	0.250%
241	14.296	14.286	14.301	HH	5075	45822	3.35%	0.096%
242	14.312	14.301	14.331	HH	5131	88840	6.50%	0.186%
243	14.342	14.331	14.366	HH	5038	105347	7.71%	0.220%
244	14.379	14.366	14.384	HH	4980	52411	3.83%	0.110%
245	14.393	14.384	14.396	HH	5003	36163	2.65%	0.076%
246	14.430	14.396	14.454	HH	5562	186149	13.62%	0.389%

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247	14.482	14.454	14.497	HH	5380	133181	9.74%	0.279%
248	14.502	14.497	14.511	HH	5288	45808	3.35%	0.096%
249	14.516	14.511	14.524	HH	5369	41265	3.02%	0.086%
250	14.565	14.524	14.573	HH	6001	164879	12.06%	0.345%
251	14.592	14.573	14.650	HH	7752	293603	21.48%	0.614%
252	14.682	14.650	14.699	HH	6036	173117	12.66%	0.362%
253	14.719	14.699	14.737	HH	6224	137145	10.03%	0.287%
254	14.764	14.737	14.788	HH	10550	240164	17.57%	0.502%
255	14.800	14.788	14.812	HH	6613	93182	6.82%	0.195%
256	14.831	14.812	14.847	HH	6854	138042	10.10%	0.289%
257	14.861	14.847	14.868	HH	6933	88308	6.46%	0.185%
258	14.870	14.868	14.877	HH	7003	34383	2.51%	0.072%
259	14.887	14.877	14.905	HH	6745	110711	8.10%	0.232%
260	14.928	14.905	14.949	HH	6821	171854	12.57%	0.359%
261	14.983	14.949	14.997	HH	7544	201210	14.72%	0.421%
262	15.005	14.997	15.017	HH	7030	82339	6.02%	0.172%
263	15.020	15.017	15.028	HH	7012	46003	3.36%	0.096%
264	15.048	15.028	15.066	HH	7289	161368	11.80%	0.338%
265	15.102	15.066	15.136	HH	85635	1367127	100.00%	2.860%
266	15.151	15.136	15.177	HH	7903	192059	14.05%	0.402%
267	15.199	15.177	15.212	HH	7834	154798	11.32%	0.324%
268	15.241	15.212	15.253	HH	8187	192087	14.05%	0.402%
269	15.268	15.253	15.277	HH	8898	127632	9.34%	0.267%
270	15.306	15.277	15.328	HH	11162	288509	21.10%	0.604%
271	15.347	15.328	15.367	HH	8986	199070	14.56%	0.416%
272	15.384	15.367	15.392	HH	8506	122513	8.96%	0.256%
273	15.403	15.392	15.423	HH	8779	159110	11.64%	0.333%
274	15.451	15.423	15.463	HH	8747	202772	14.83%	0.424%
275	15.477	15.463	15.487	HH	8817	126175	9.23%	0.264%
276	15.498	15.487	15.526	HH	8885	205077	15.00%	0.429%
277	15.563	15.526	15.582	HH	9178	296915	21.72%	0.621%
278	15.592	15.582	15.600	HH	9080	98570	7.21%	0.206%
279	15.620	15.600	15.629	HH	9360	157856	11.55%	0.330%
280	15.635	15.629	15.639	HH	9398	56323	4.12%	0.118%
281	15.647	15.639	15.652	HH	9453	74700	5.46%	0.156%
282	15.689	15.652	15.731	HH	44627	966569	70.70%	2.022%
283	15.735	15.731	15.749	HH	10238	112066	8.20%	0.234%
284	15.756	15.749	15.779	HH	10044	176789	12.93%	0.370%
285	15.827	15.779	15.860	HH	13575	545423	39.90%	1.141%
286	15.904	15.860	15.940	HH	14665	567568	41.52%	1.187%
287	15.955	15.940	15.996	HH	11565	371173	27.15%	0.776%
288	16.017	15.996	16.023	HH	11154	176739	12.93%	0.370%
289	16.030	16.023	16.040	HH	11310	114883	8.40%	0.240%
290	16.062	16.040	16.070	HH	11843	205349	15.02%	0.430%
291	16.085	16.070	16.107	HH	12155	262229	19.18%	0.549%
292	16.121	16.107	16.129	HH	11961	160086	11.71%	0.335%
293	16.153	16.129	16.160	HH	12485	222118	16.25%	0.465%
294	16.163	16.160	16.168	HH	12257	58239	4.26%	0.122%
295	16.206	16.168	16.238	HH	13873	539420	39.46%	1.128%
296	16.254	16.238	16.263	HH	13186	200861	14.69%	0.420%
297	16.268	16.263	16.275	HH	13040	90548	6.62%	0.189%
298	16.286	16.275	16.300	HH	13563	198413	14.51%	0.415%
299	16.331	16.300	16.377	HH	16075	661529	48.39%	1.384%

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300	16.396	16.377	16.410	HH	14439	286672	20.97%	0.600%
301	16.424	16.410	16.446	HH	14153	295632	21.62%	0.618%
302	16.461	16.446	16.476	HH	14457	253730	18.56%	0.531%
303	16.518	16.476	16.543	HH	15519	595432	43.55%	1.246%
304	16.553	16.543	16.558	HH	15197	142902	10.45%	0.299%
305	16.562	16.558	16.570	HH	15178	107402	7.86%	0.225%
306	16.631	16.570	16.656	HH	19052	856397	62.64%	1.791%
307	16.671	16.656	16.680	HH	17668	254637	18.63%	0.533%
308	16.706	16.680	16.752	HH	26674	869984	63.64%	1.820%
309	16.813	16.752	16.853	HH	21843	1132543	82.84%	2.369%
310	16.895	16.853	16.915	HH	20975	725782	53.09%	1.518%
311	16.959	16.915	16.964	HH	20303	582289	42.59%	1.218%
312	16.988	16.964	17.007	HH	20933	525638	38.45%	1.100%
313	17.036	17.007	17.056	HH	21159	610903	44.69%	1.278%
314	17.097	17.056	17.113	HH	22109	741606	54.25%	1.551%
315	17.132	17.113	17.163	HH	22840	659448	48.24%	1.379%
316	17.185	17.163	17.208	HH	23543	628267	45.96%	1.314%
317	17.214	17.208	17.221	HH	22762	162837	11.91%	0.341%
318	17.283	17.221	17.302	HH	28037	1199524	87.74%	2.509%
319	17.329	17.302	17.378	HH	27633	1204387	88.10%	2.519%
320	17.388	17.378	17.392	HH	25282	201395	14.73%	0.421%
321	17.396	17.392	17.408	HH	25356	239815	17.54%	0.502%
322	17.435	17.408	17.438	HH	25827	472110	34.53%	0.988%
					Sum of corrected areas:		47805678	

FF061325.M Wed Jul 09 04:18:39 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-94	SDG No.:	Q2514
Lab Sample ID:	Q2514-03	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	88.1
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
FG016255.D	1	07/08/25 08:35	07/08/25 20:23	PB168751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	9120		192	1890	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\FG070825\
Data File : FG016255.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 20:23
Operator : YP\AJ
Sample : Q2514-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-94

Integration File: Sample.e
Quant Time: Jul 09 03:15:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.200	1186053	10.111 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

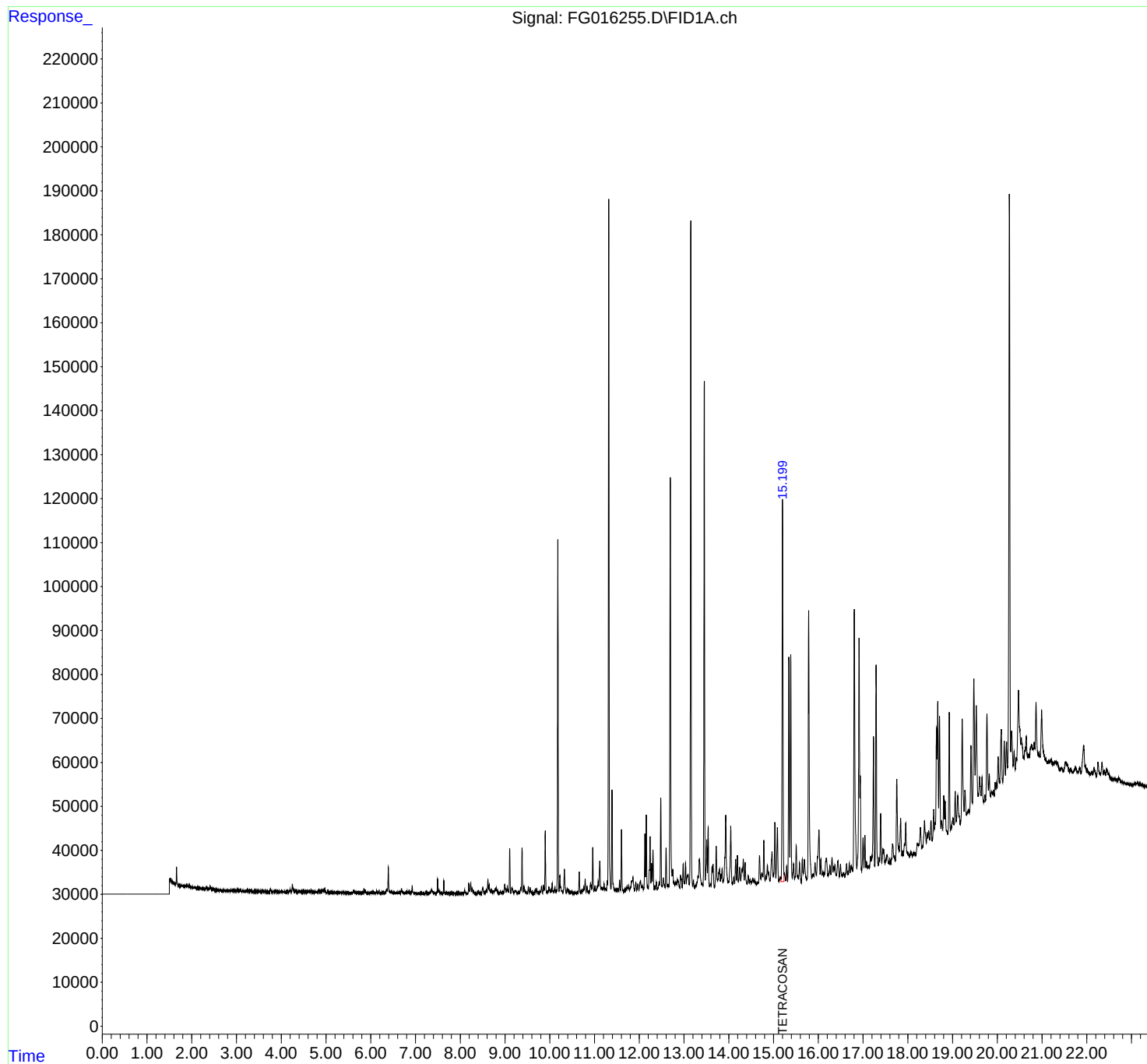
(m)=manual int.

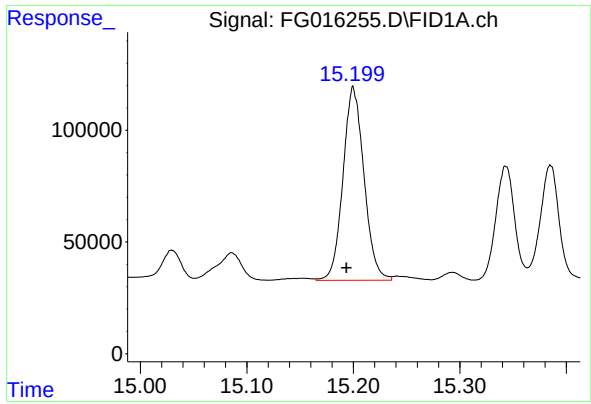
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016255.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 20:23
Operator : YP\AJ
Sample : Q2514-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-94

Integration File: Sample.e
Quant Time: Jul 09 03:15:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.200 min
Delta R.T.: 0.006 min
Response: 1186053
Conc: 10.11 ug/ml

Instrument :
FID_G
ClientSampleId :
TP-94

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
 Data File : FG016255.D
 Signal(s) : FID1A.ch
 Acq On : 08 Jul 2025 20:23
 Sample : Q2514-03
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.909	4.856	4.918	HH	744	22265	1.24%	0.068%
2	4.924	4.918	4.932	HH	778	5586	0.31%	0.017%
3	4.935	4.932	4.944	HH	756	5260	0.29%	0.016%
4	4.967	4.944	5.002	HH	933	25062	1.39%	0.077%
5	5.005	5.002	5.025	HH	401	5220	0.29%	0.016%
6	5.035	5.025	5.072	HH	527	12023	0.67%	0.037%
7	5.082	5.072	5.097	HH	438	5679	0.32%	0.017%
8	5.121	5.097	5.153	HH	410	11744	0.65%	0.036%
9	5.194	5.153	5.212	HH	402	11939	0.66%	0.037%
10	5.226	5.212	5.262	HH	341	8628	0.48%	0.026%
11	5.276	5.262	5.320	HH	361	11211	0.62%	0.034%
12	5.329	5.320	5.360	HH	418	7124	0.40%	0.022%
13	5.378	5.360	5.417	HH	483	11889	0.66%	0.036%
14	5.423	5.417	5.452	HH	331	6001	0.33%	0.018%
15	5.481	5.452	5.557	HH	473	18509	1.03%	0.057%
16	5.586	5.557	5.593	HH	229	4630	0.26%	0.014%
17	5.620	5.593	5.639	HH	904	13466	0.75%	0.041%
18	5.654	5.639	5.672	HH	502	7285	0.40%	0.022%
19	5.689	5.672	5.715	HH	362	7716	0.43%	0.024%
20	5.721	5.715	5.727	HH	272	1659	0.09%	0.005%
21	5.736	5.727	5.767	HH	255	5440	0.30%	0.017%
22	5.777	5.767	5.794	HH	194	3412	0.19%	0.010%
23	5.815	5.794	5.828	HH	308	5662	0.31%	0.017%
24	5.847	5.828	5.862	HH	1138	13142	0.73%	0.040%
25	5.874	5.862	5.904	HH	899	13000	0.72%	0.040%
26	5.917	5.904	5.948	HH	332	6622	0.37%	0.020%
27	5.959	5.948	5.982	HH	228	3923	0.22%	0.012%
28	5.999	5.982	6.024	HH	234	5905	0.33%	0.018%
29	6.065	6.024	6.100	HH	441	14568	0.81%	0.045%
30	6.132	6.100	6.160	HH	716	12410	0.69%	0.038%
31	6.183	6.160	6.205	HH	807	10170	0.56%	0.031%
32	6.243	6.205	6.260	HH	345	8656	0.48%	0.027%
33	6.276	6.260	6.315	HH	390	9228	0.51%	0.028%
34	6.354	6.315	6.370	HH	1131	20266	1.13%	0.062%
35	6.392	6.370	6.433	HH	6186	75294	4.18%	0.231%
36	6.464	6.433	6.485	HH	685	14484	0.80%	0.044%

					rteres			
37	6.495	6.485	6.527	HH	368	7116	0.40%	0.022%
38	6.535	6.527	6.555	HH	335	4540	0.25%	0.014%
39	6.575	6.555	6.609	HH	349	8780	0.49%	0.027%
40	6.618	6.609	6.664	HH	303	7703	0.43%	0.024%
41	6.688	6.664	6.729	HH	1275	22295	1.24%	0.068%
42	6.740	6.729	6.778	HH	260	7178	0.40%	0.022%
43	6.790	6.778	6.824	HH	399	8740	0.49%	0.027%
44	6.851	6.824	6.898	HH	430	14308	0.79%	0.044%
45	6.925	6.898	6.992	HH	1749	26200	1.46%	0.080%
46	7.006	6.992	7.044	HH	237	4932	0.27%	0.015%
47	7.059	7.044	7.084	HH	199	3580	0.20%	0.011%
48	7.112	7.084	7.122	HH	209	3068	0.17%	0.009%
49	7.134	7.122	7.150	HH	204	2785	0.15%	0.009%
50	7.174	7.150	7.210	HH	217	5393	0.30%	0.017%
51	7.235	7.210	7.294	HH	608	12362	0.69%	0.038%
52	7.310	7.294	7.324	HH	278	3365	0.19%	0.010%
53	7.362	7.324	7.414	HH	1001	27277	1.52%	0.084%
54	7.429	7.414	7.463	HH	286	4847	0.27%	0.015%
55	7.493	7.463	7.510	HH	3447	34951	1.94%	0.107%
56	7.522	7.510	7.612	HH	914	17829	0.99%	0.055%
57	7.633	7.612	7.657	HH	3081	30474	1.69%	0.093%
58	7.671	7.657	7.690	HH	249	3781	0.21%	0.012%
59	7.703	7.690	7.747	HH	205	4840	0.27%	0.015%
60	7.757	7.747	7.774	HH	192	1989	0.11%	0.006%
61	7.804	7.774	7.852	HH	288	6774	0.38%	0.021%
62	7.862	7.852	7.909	HH	222	3863	0.21%	0.012%
63	7.937	7.909	7.952	HH	259	3841	0.21%	0.012%
64	7.980	7.952	8.004	HH	228	4153	0.23%	0.013%
65	8.025	8.004	8.044	HH	283	3594	0.20%	0.011%
66	8.054	8.044	8.075	HH	176	2132	0.12%	0.007%
67	8.097	8.075	8.144	HH	966	13991	0.78%	0.043%
68	8.152	8.144	8.169	HH	128	1682	0.09%	0.005%
69	8.191	8.169	8.212	HH	2466	30119	1.67%	0.092%
70	8.234	8.212	8.253	HH	2270	34751	1.93%	0.106%
71	8.267	8.253	8.282	HH	1394	16361	0.91%	0.050%
72	8.293	8.282	8.332	HH	861	12523	0.70%	0.038%
73	8.338	8.332	8.370	HH	201	2126	0.12%	0.007%
74	8.399	8.370	8.435	HH	772	12104	0.67%	0.037%
75	8.451	8.435	8.459	HH	204	2028	0.11%	0.006%
76	8.510	8.459	8.531	HH	1337	27084	1.50%	0.083%
77	8.582	8.531	8.599	HH	769	18135	1.01%	0.056%
78	8.618	8.599	8.634	HH	3302	39485	2.19%	0.121%
79	8.646	8.634	8.669	HH	1970	25572	1.42%	0.078%
80	8.690	8.669	8.722	HH	881	20227	1.12%	0.062%
81	8.733	8.722	8.743	HH	526	5812	0.32%	0.018%
82	8.782	8.743	8.794	HH	1220	23915	1.33%	0.073%
83	8.803	8.794	8.875	HH	1311	30007	1.67%	0.092%
84	8.896	8.875	8.912	HH	708	8501	0.47%	0.026%
85	8.927	8.912	8.954	HH	339	6565	0.36%	0.020%
86	8.993	8.954	9.034	HH	2200	44713	2.48%	0.137%
87	9.053	9.034	9.084	HH	1588	27099	1.51%	0.083%
88	9.106	9.084	9.129	HH	10280	106869	5.94%	0.327%
89	9.153	9.129	9.194	HH	1453	32051	1.78%	0.098%

					rteres			
90	9.223	9.194	9.234	HH	810	12487	0.69%	0.038%
91	9.246	9.234	9.284	HH	749	12121	0.67%	0.037%
92	9.301	9.284	9.312	HH	391	5555	0.31%	0.017%
93	9.353	9.312	9.364	HH	1581	24038	1.34%	0.074%
94	9.381	9.364	9.404	HH	10429	109026	6.06%	0.334%
95	9.422	9.404	9.464	HH	1776	33198	1.84%	0.102%
96	9.474	9.464	9.497	HH	455	5683	0.32%	0.017%
97	9.523	9.497	9.544	HH	1637	21692	1.21%	0.066%
98	9.562	9.544	9.604	HH	1512	23951	1.33%	0.073%
99	9.630	9.604	9.654	HH	281	6229	0.35%	0.019%
100	9.679	9.654	9.695	HH	1237	15497	0.86%	0.047%
101	9.711	9.695	9.747	HH	1331	17490	0.97%	0.054%
102	9.764	9.747	9.774	HH	399	5019	0.28%	0.015%
103	9.816	9.774	9.838	HH	1884	31367	1.74%	0.096%
104	9.858	9.838	9.876	HH	1933	26276	1.46%	0.080%
105	9.899	9.876	9.955	HH	14384	164089	9.12%	0.502%
106	9.981	9.955	10.010	HH	1602	30117	1.67%	0.092%
107	10.022	10.010	10.037	HH	1024	11636	0.65%	0.036%
108	10.054	10.037	10.096	HH	2467	38593	2.14%	0.118%
109	10.115	10.096	10.137	HH	1520	21969	1.22%	0.067%
110	10.180	10.137	10.207	HH	80688	826574	45.92%	2.531%
111	10.226	10.207	10.294	HH	4254	75554	4.20%	0.231%
112	10.326	10.294	10.369	HH	5637	90097	5.01%	0.276%
113	10.391	10.369	10.409	HH	1297	19360	1.08%	0.059%
114	10.422	10.409	10.450	HH	677	13198	0.73%	0.040%
115	10.456	10.450	10.470	HH	377	3728	0.21%	0.011%
116	10.493	10.470	10.524	HH	464	10872	0.60%	0.033%
117	10.533	10.524	10.559	HH	258	3794	0.21%	0.012%
118	10.567	10.559	10.580	HH	286	2297	0.13%	0.007%
119	10.623	10.580	10.632	HH	409	8074	0.45%	0.025%
120	10.658	10.632	10.686	HH	5095	61105	3.39%	0.187%
121	10.705	10.686	10.719	HH	778	11117	0.62%	0.034%
122	10.763	10.719	10.773	HH	1404	30580	1.70%	0.094%
123	10.790	10.773	10.813	HH	3366	44371	2.47%	0.136%
124	10.831	10.813	10.887	HH	1716	35256	1.96%	0.108%
125	10.913	10.887	10.938	HH	2193	45343	2.52%	0.139%
126	10.960	10.938	10.994	HH	10554	129196	7.18%	0.396%
127	11.011	10.994	11.029	HH	1909	25724	1.43%	0.079%
128	11.081	11.029	11.093	HH	2942	61863	3.44%	0.189%
129	11.117	11.093	11.175	HH	7557	145665	8.09%	0.446%
130	11.181	11.175	11.194	HH	1183	12282	0.68%	0.038%
131	11.214	11.194	11.237	HH	2384	39062	2.17%	0.120%
132	11.256	11.237	11.266	HH	1252	18856	1.05%	0.058%
133	11.318	11.266	11.366	HH	157418	1782116	99.00%	5.456%
134	11.391	11.366	11.457	HH	23647	302529	16.81%	0.926%
135	11.471	11.457	11.484	HH	1168	15637	0.87%	0.048%
136	11.491	11.484	11.506	HH	1001	12190	0.68%	0.037%
137	11.517	11.506	11.542	HH	977	18840	1.05%	0.058%
138	11.560	11.542	11.582	HH	3180	42330	2.35%	0.130%
139	11.602	11.582	11.651	HH	14680	172754	9.60%	0.529%
140	11.679	11.651	11.694	HH	979	19992	1.11%	0.061%
141	11.729	11.694	11.747	HH	1798	42593	2.37%	0.130%

					rteres			
142	11.765	11.747	11.783	HH	1792	30650	1.70%	0.094%
143	11.858	11.783	11.895	HH	3695	145320	8.07%	0.445%
144	11.922	11.895	11.945	HH	2641	47820	2.66%	0.146%
145	11.971	11.945	11.992	HH	2242	45280	2.52%	0.139%
146	12.027	11.992	12.059	HH	3151	81758	4.54%	0.250%
147	12.072	12.059	12.095	HH	1862	32267	1.79%	0.099%
148	12.126	12.095	12.140	HH	13693	160939	8.94%	0.493%
149	12.157	12.140	12.204	HH	18061	231892	12.88%	0.710%
150	12.242	12.204	12.260	HH	13050	206249	11.46%	0.631%
151	12.275	12.260	12.290	HH	6963	85473	4.75%	0.262%
152	12.307	12.290	12.332	HH	10081	128862	7.16%	0.395%
153	12.348	12.332	12.364	HH	1861	27626	1.53%	0.085%
154	12.383	12.364	12.409	HH	2775	49004	2.72%	0.150%
155	12.444	12.409	12.457	HH	2659	55915	3.11%	0.171%
156	12.481	12.457	12.509	HH	21748	269719	14.98%	0.826%
157	12.537	12.509	12.574	HH	3670	94838	5.27%	0.290%
158	12.599	12.574	12.622	HH	10410	140488	7.80%	0.430%
159	12.633	12.622	12.647	HH	2010	27665	1.54%	0.085%
160	12.656	12.647	12.662	HH	1793	16153	0.90%	0.049%
161	12.694	12.662	12.735	HH	94642	1236764	68.71%	3.786%
162	12.750	12.735	12.794	HH	5593	122530	6.81%	0.375%
163	12.806	12.794	12.818	HH	2499	34209	1.90%	0.105%
164	12.831	12.818	12.839	HH	2545	30712	1.71%	0.094%
165	12.855	12.839	12.902	HH	3159	94758	5.26%	0.290%
166	12.923	12.902	12.960	HH	4252	99867	5.55%	0.306%
167	12.981	12.960	13.011	HH	6855	112183	6.23%	0.343%
168	13.034	13.011	13.053	HH	7134	110406	6.13%	0.338%
169	13.092	13.053	13.115	HH	4455	136528	7.58%	0.418%
170	13.152	13.115	13.194	HH	152670	1800052	100.00%	5.511%
171	13.211	13.194	13.232	HH	3000	50552	2.81%	0.155%
172	13.249	13.232	13.258	HH	1861	25892	1.44%	0.079%
173	13.312	13.258	13.322	HH	4056	105377	5.85%	0.323%
174	13.346	13.322	13.399	HH	7793	216528	12.03%	0.663%
175	13.407	13.399	13.424	HH	2182	31619	1.76%	0.097%
176	13.453	13.424	13.477	HH	116837	1322648	73.48%	4.049%
177	13.508	13.477	13.523	HH	12299	204418	11.36%	0.626%
178	13.539	13.523	13.575	HH	15120	206216	11.46%	0.631%
179	13.591	13.575	13.605	HH	2234	37181	2.07%	0.114%
180	13.627	13.605	13.639	HH	6181	88540	4.92%	0.271%
181	13.649	13.639	13.677	HH	6772	97656	5.43%	0.299%
182	13.720	13.677	13.747	HH	10823	200650	11.15%	0.614%
183	13.792	13.747	13.811	HH	5700	162159	9.01%	0.496%
184	13.827	13.811	13.837	HH	4583	60035	3.34%	0.184%
185	13.851	13.837	13.870	HH	5718	83998	4.67%	0.257%
186	13.931	13.870	13.995	HH	17990	476317	26.46%	1.458%
187	14.044	13.995	14.084	HH	15435	327821	18.21%	1.004%
188	14.112	14.084	14.130	HH	3874	83176	4.62%	0.255%
189	14.154	14.130	14.174	HH	7947	132443	7.36%	0.405%
190	14.193	14.174	14.215	HH	8783	132421	7.36%	0.405%
191	14.243	14.215	14.266	HH	6048	130074	7.23%	0.398%
192	14.291	14.266	14.306	HH	5691	114492	6.36%	0.351%
193	14.323	14.306	14.347	HH	7945	137701	7.65%	0.422%
194	14.366	14.347	14.405	HH	7179	145303	8.07%	0.445%

					rteres			
195	14.438	14.405	14.458	HH	4013	97204	5.40%	0.298%
196	14.475	14.458	14.512	HH	3246	90978	5.05%	0.279%
197	14.534	14.512	14.563	HH	3414	93592	5.20%	0.287%
198	14.579	14.563	14.619	HH	3331	90175	5.01%	0.276%
199	14.636	14.619	14.658	HH	2539	57458	3.19%	0.176%
200	14.687	14.658	14.717	HH	8731	179332	9.96%	0.549%
201	14.740	14.717	14.762	HH	4856	115043	6.39%	0.352%
202	14.783	14.762	14.810	HH	12159	196325	10.91%	0.601%
203	14.830	14.810	14.842	HH	4079	68825	3.82%	0.211%
204	14.863	14.842	14.880	HH	6534	117881	6.55%	0.361%
205	14.892	14.880	14.920	HH	4897	96283	5.35%	0.295%
206	14.965	14.920	14.994	HH	9650	266255	14.79%	0.815%
207	15.030	14.994	15.052	HH	16175	282367	15.69%	0.864%
208	15.086	15.052	15.120	HH	15181	317195	17.62%	0.971%
209	15.152	15.120	15.165	HH	3718	92658	5.15%	0.284%
210	15.200	15.165	15.274	HH	88807	1395629	77.53%	4.273%
211	15.293	15.274	15.313	HH	6401	107777	5.99%	0.330%
212	15.343	15.313	15.363	HH	53711	711937	39.55%	2.180%
213	15.385	15.363	15.419	HH	54289	729301	40.52%	2.233%
214	15.448	15.419	15.469	HH	6899	152025	8.45%	0.465%
215	15.507	15.469	15.553	HH	11049	279734	15.54%	0.856%
216	15.581	15.553	15.619	HH	7068	177108	9.84%	0.542%
217	15.642	15.619	15.669	HH	7931	161770	8.99%	0.495%
218	15.689	15.669	15.740	HH	7748	225808	12.54%	0.691%
219	15.785	15.740	15.856	HH	64473	1161906	64.55%	3.557%
220	15.885	15.856	15.902	HH	4581	116206	6.46%	0.356%
221	15.929	15.902	15.957	HH	7130	176381	9.80%	0.540%
222	16.016	15.957	16.040	HH	14608	446998	24.83%	1.368%
223	16.058	16.040	16.086	HH	7948	159560	8.86%	0.488%
224	16.102	16.086	16.119	HH	4999	92451	5.14%	0.283%
225	16.182	16.119	16.215	HH	8266	341942	19.00%	1.047%
226	16.260	16.215	16.285	HH	6425	214249	11.90%	0.656%
227	16.307	16.285	16.329	HH	8322	169665	9.43%	0.519%
228	16.345	16.329	16.358	HH	6322	101788	5.65%	0.312%
229	16.373	16.358	16.405	HH	6651	148979	8.28%	0.456%
230	16.437	16.405	16.473	HH	7481	230929	12.83%	0.707%
231	16.496	16.473	16.535	HH	6751	186066	10.34%	0.570%
232	16.556	16.535	16.597	HH	4594	162054	9.00%	0.496%
233	16.633	16.597	16.654	HH	6845	182944	10.16%	0.560%
234	16.661	16.654	16.674	HH	4955	57019	3.17%	0.175%
235	16.693	16.674	16.714	HH	7029	138478	7.69%	0.424%
236	16.739	16.714	16.762	HH	6434	166916	9.27%	0.511%
237	16.805	16.762	16.862	HH	64633	1287268	71.51%	3.941%
238	16.912	16.862	16.931	HH	58175	992377	55.13%	3.038%
239	16.939	16.931	16.969	HH	26900	342955	19.05%	1.050%
240	17.001	16.969	17.023	HH	12739	280248	15.57%	0.858%
241	17.043	17.023	17.065	HH	13335	234922	13.05%	0.719%
242	17.079	17.065	17.097	HH	7348	129410	7.19%	0.396%
243	17.108	17.097	17.120	HH	6322	86770	4.82%	0.266%
244	17.131	17.120	17.145	HH	6400	91379	5.08%	0.280%
245	17.167	17.145	17.185	HH	8524	182262	10.13%	0.558%
246	17.235	17.185	17.264	HH	35903	712599	39.59%	2.182%

						rteres		
247	17.292	17.264	17.340	HH	51712	876638	48.70%	2.684%
248	17.359	17.340	17.372	HH	7808	140379	7.80%	0.430%
249	17.394	17.372	17.420	HH	18295	344312	19.13%	1.054%
250	17.443	17.420	17.454	HH	10226	179497	9.97%	0.550%
251	17.464	17.454	17.491	HH	10107	197677	10.98%	0.605%
					Sum of corrected areas:	32663490		

FG061325.M Wed Jul 09 05:47:07 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-96	SDG No.:	Q2514
Lab Sample ID:	Q2514-04	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	85.8
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	Diesel Range Organics
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016108.D	1	07/08/25 08:35	07/08/25 18:24	PB168751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	22500		197	1940	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	8.73		37 - 130	44%	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\FF070825\
Data File : FF016108.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 18:24
Operator : YP\AJ
Sample : Q2514-04
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-96

Integration File: autoint1.e
Quant Time: Jul 09 02:39:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.104	1054208	8.731 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

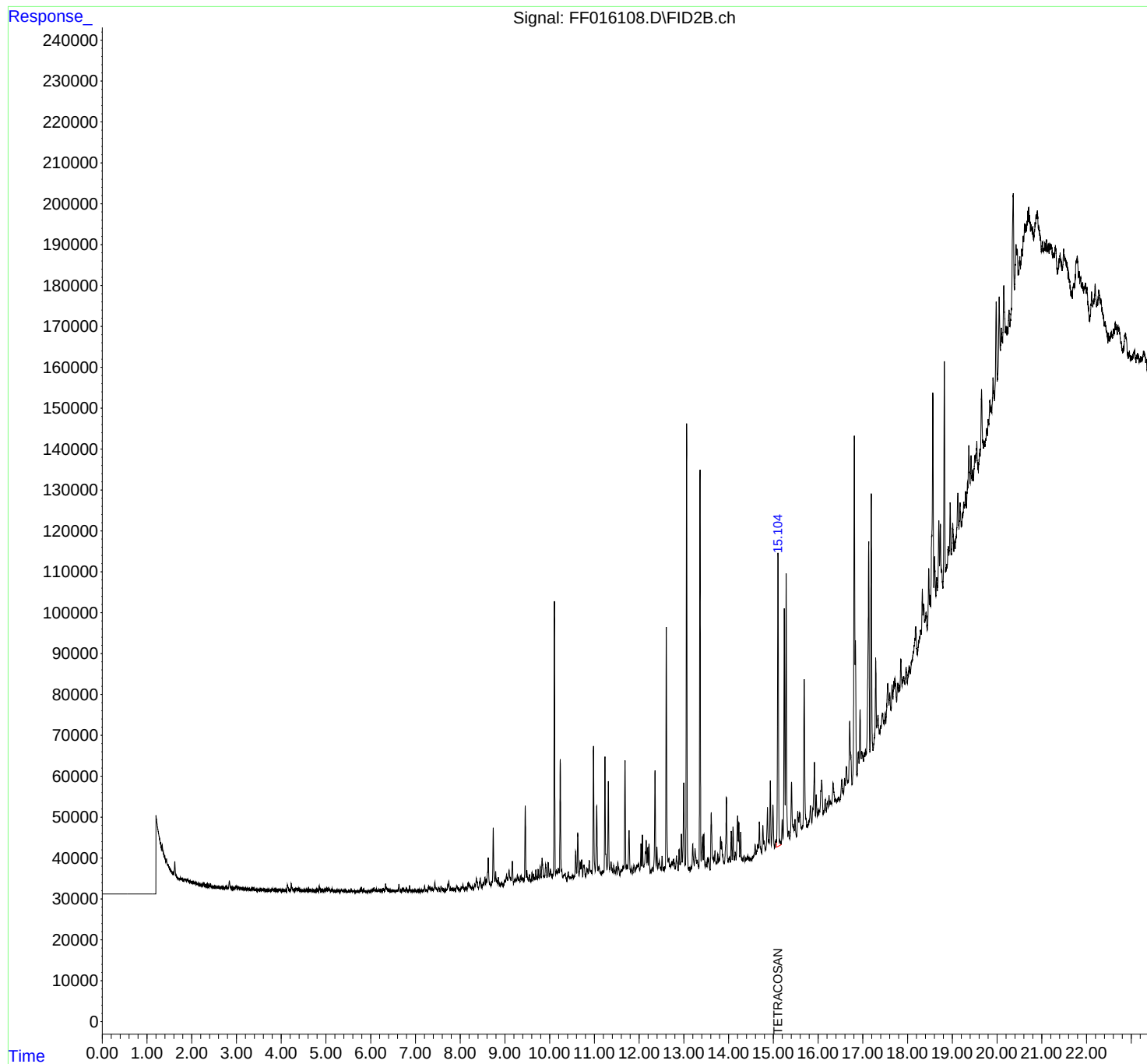
(m)=manual int.

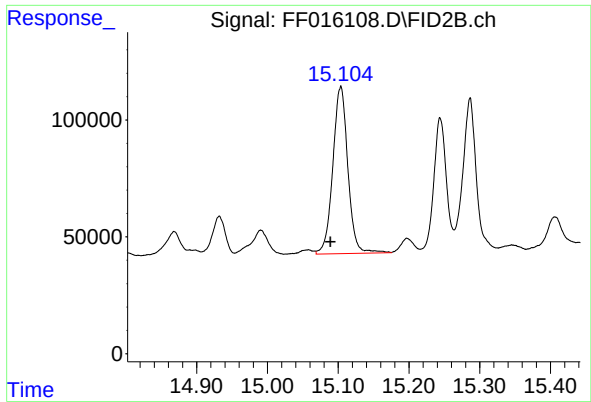
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
Data File : FF016108.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 18:24
Operator : YP\AJ
Sample : Q2514-04
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-96

Integration File: autoint1.e
Quant Time: Jul 09 02:39:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.104 min
Delta R.T.: 0.014 min
Response: 1054208
Conc: 8.73 ug/ml

Instrument :
FID_F
ClientSampleId :
TP-96

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
 Data File : FF016108.D
 Signal(s) : FID2B.ch
 Acq On : 08 Jul 2025 18:24
 Sample : Q2514-04
 Misc :
 ALS Vial : 77 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
 Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.783	4.765	4.805	HH	1090	21819	0.82%	0.028%
2	4.807	4.805	4.823	HH	829	7978	0.30%	0.010%
3	4.849	4.823	4.886	HH	2028	45839	1.72%	0.058%
4	4.898	4.886	4.919	HH	979	17680	0.66%	0.022%
5	4.927	4.919	4.944	HH	916	13319	0.50%	0.017%
6	4.953	4.944	4.958	HH	937	6845	0.26%	0.009%
7	4.984	4.958	4.988	HH	1126	17635	0.66%	0.022%
8	4.991	4.988	4.996	HH	1083	5010	0.19%	0.006%
9	4.999	4.996	5.010	HH	1052	8561	0.32%	0.011%
10	5.022	5.010	5.027	HH	1163	11324	0.42%	0.014%
11	5.032	5.027	5.053	HH	1162	16896	0.63%	0.021%
12	5.061	5.053	5.088	HH	1203	21651	0.81%	0.027%
13	5.094	5.088	5.109	HH	916	10583	0.40%	0.013%
14	5.139	5.109	5.168	HH	1332	33096	1.24%	0.042%
15	5.172	5.168	5.195	HH	768	10951	0.41%	0.014%
16	5.199	5.195	5.220	HH	758	9983	0.37%	0.013%
17	5.235	5.220	5.240	HH	748	8198	0.31%	0.010%
18	5.248	5.240	5.260	HH	850	8960	0.34%	0.011%
19	5.273	5.260	5.292	HH	794	13263	0.50%	0.017%
20	5.296	5.292	5.311	HH	670	7303	0.27%	0.009%
21	5.342	5.311	5.362	HH	1056	25008	0.94%	0.032%
22	5.373	5.362	5.391	HH	847	13507	0.51%	0.017%
23	5.408	5.391	5.427	HH	838	15825	0.59%	0.020%
24	5.436	5.427	5.454	HH	784	11957	0.45%	0.015%
25	5.458	5.454	5.495	HH	603	14245	0.53%	0.018%
26	5.507	5.495	5.538	HH	689	15954	0.60%	0.020%
27	5.563	5.538	5.589	HH	1281	24832	0.93%	0.031%
28	5.599	5.589	5.617	HH	762	11749	0.44%	0.015%
29	5.621	5.617	5.629	HH	730	4921	0.18%	0.006%
30	5.635	5.629	5.660	HH	715	11231	0.42%	0.014%
31	5.663	5.660	5.675	HH	618	5239	0.20%	0.007%
32	5.684	5.675	5.687	HH	625	4302	0.16%	0.005%
33	5.694	5.687	5.706	HH	599	6329	0.24%	0.008%
34	5.708	5.706	5.726	HH	614	6164	0.23%	0.008%
35	5.735	5.726	5.740	HH	564	4466	0.17%	0.006%
36	5.760	5.740	5.772	HH	1152	16501	0.62%	0.021%

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37	5.791	5.772	5.823	HH	1697	30762	1.15%	0.039%
38	5.840	5.823	5.874	HH	1224	25200	0.94%	0.032%
39	5.880	5.874	5.918	HH	670	15313	0.57%	0.019%
40	5.920	5.918	5.924	HH	545	2146	0.08%	0.003%
41	5.929	5.924	5.937	HH	584	4139	0.15%	0.005%
42	5.952	5.937	5.978	HH	900	16884	0.63%	0.021%
43	5.984	5.978	5.988	HH	675	3747	0.14%	0.005%
44	5.995	5.988	6.002	HH	671	5154	0.19%	0.007%
45	6.032	6.002	6.048	HH	1135	23976	0.90%	0.030%
46	6.075	6.048	6.110	HH	1602	38292	1.43%	0.048%
47	6.125	6.110	6.141	HH	1178	18192	0.68%	0.023%
48	6.150	6.141	6.164	HH	955	10729	0.40%	0.014%
49	6.178	6.164	6.219	HH	1021	28201	1.06%	0.036%
50	6.232	6.219	6.258	HH	852	17446	0.65%	0.022%
51	6.273	6.258	6.280	HH	1338	11197	0.42%	0.014%
52	6.294	6.280	6.318	HH	1258	21917	0.82%	0.028%
53	6.333	6.318	6.348	HH	2512	30940	1.16%	0.039%
54	6.353	6.348	6.387	HH	1589	26753	1.00%	0.034%
55	6.403	6.387	6.419	HH	1106	17834	0.67%	0.023%
56	6.439	6.419	6.458	HH	836	16616	0.62%	0.021%
57	6.481	6.458	6.493	HH	904	16255	0.61%	0.021%
58	6.507	6.493	6.553	HH	920	27219	1.02%	0.034%
59	6.569	6.553	6.583	HH	839	13420	0.50%	0.017%
60	6.588	6.583	6.593	HH	803	4263	0.16%	0.005%
61	6.596	6.593	6.605	HH	822	5761	0.22%	0.007%
62	6.631	6.605	6.675	HH	2433	47408	1.77%	0.060%
63	6.716	6.675	6.770	HH	1337	52200	1.95%	0.066%
64	6.796	6.770	6.824	HH	1498	32422	1.21%	0.041%
65	6.833	6.824	6.842	HH	761	7054	0.26%	0.009%
66	6.867	6.842	6.895	HH	2067	35684	1.34%	0.045%
67	6.909	6.895	6.931	HH	786	15440	0.58%	0.019%
68	6.948	6.931	6.969	HH	1026	18149	0.68%	0.023%
69	6.993	6.969	7.013	HH	982	20496	0.77%	0.026%
70	7.018	7.013	7.039	HH	665	10417	0.39%	0.013%
71	7.080	7.039	7.099	HH	1144	28575	1.07%	0.036%
72	7.122	7.099	7.137	HH	946	17877	0.67%	0.023%
73	7.140	7.137	7.159	HH	866	10566	0.40%	0.013%
74	7.172	7.159	7.187	HH	905	13109	0.49%	0.017%
75	7.204	7.187	7.229	HH	2039	32240	1.21%	0.041%
76	7.239	7.229	7.263	HH	930	17340	0.65%	0.022%
77	7.294	7.263	7.315	HH	1822	40120	1.50%	0.051%
78	7.330	7.315	7.352	HH	1521	28518	1.07%	0.036%
79	7.369	7.352	7.397	HH	1514	30970	1.16%	0.039%
80	7.434	7.397	7.453	HH	2842	54965	2.06%	0.069%
81	7.461	7.453	7.502	HH	1480	32821	1.23%	0.041%
82	7.519	7.502	7.552	HH	1574	34685	1.30%	0.044%
83	7.572	7.552	7.600	HH	1997	35911	1.34%	0.045%
84	7.613	7.600	7.637	HH	1283	23086	0.86%	0.029%
85	7.640	7.637	7.660	HH	939	12669	0.47%	0.016%
86	7.692	7.660	7.701	HH	1009	22884	0.86%	0.029%
87	7.723	7.701	7.733	HH	2360	31728	1.19%	0.040%
88	7.746	7.733	7.769	HH	3196	45997	1.72%	0.058%
89	7.783	7.769	7.797	HH	1346	19842	0.74%	0.025%

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90	7.804	7.797	7.819	HH	1255	15513	0.58%	0.020%
91	7.824	7.819	7.829	HH	1181	6844	0.26%	0.009%
92	7.834	7.829	7.847	HH	1197	12156	0.45%	0.015%
93	7.854	7.847	7.858	HH	983	6662	0.25%	0.008%
94	7.872	7.858	7.894	HH	1158	22002	0.82%	0.028%
95	7.922	7.894	7.933	HH	1956	33493	1.25%	0.042%
96	7.940	7.933	7.960	HH	1666	22295	0.83%	0.028%
97	7.977	7.960	7.995	HH	1224	22353	0.84%	0.028%
98	8.037	7.995	8.047	HH	1803	40324	1.51%	0.051%
99	8.061	8.047	8.080	HH	2402	35357	1.32%	0.045%
100	8.084	8.080	8.105	HH	1414	18237	0.68%	0.023%
101	8.118	8.105	8.125	HH	1320	14861	0.56%	0.019%
102	8.131	8.125	8.153	HH	1408	21991	0.82%	0.028%
103	8.176	8.153	8.193	HH	2611	50520	1.89%	0.064%
104	8.205	8.193	8.220	HH	2509	35069	1.31%	0.044%
105	8.231	8.220	8.250	HH	1973	29620	1.11%	0.037%
106	8.273	8.250	8.297	HH	1922	40947	1.53%	0.052%
107	8.325	8.297	8.341	HH	2231	47622	1.78%	0.060%
108	8.362	8.341	8.374	HH	3878	57643	2.16%	0.073%
109	8.379	8.374	8.412	HH	3078	49150	1.84%	0.062%
110	8.448	8.412	8.486	HH	3884	107080	4.01%	0.135%
111	8.517	8.486	8.527	HH	2531	52777	1.97%	0.067%
112	8.553	8.527	8.568	HH	4121	76962	2.88%	0.097%
113	8.581	8.568	8.593	HH	3655	46640	1.75%	0.059%
114	8.628	8.593	8.659	HH	8773	194687	7.28%	0.246%
115	8.668	8.659	8.690	HH	2500	43064	1.61%	0.054%
116	8.740	8.690	8.777	HH	16168	301374	11.28%	0.380%
117	8.793	8.777	8.809	HH	5462	80191	3.00%	0.101%
118	8.818	8.809	8.834	HH	3343	45268	1.69%	0.057%
119	8.853	8.834	8.892	HH	4057	97762	3.66%	0.123%
120	8.930	8.892	8.946	HH	2782	77507	2.90%	0.098%
121	8.958	8.946	8.972	HH	2458	35968	1.35%	0.045%
122	8.993	8.972	8.997	HH	2986	38393	1.44%	0.048%
123	9.035	8.997	9.065	HH	4423	147793	5.53%	0.187%
124	9.093	9.065	9.140	HH	5867	196431	7.35%	0.248%
125	9.167	9.140	9.192	HH	8013	159169	5.96%	0.201%
126	9.221	9.192	9.241	HH	3595	93215	3.49%	0.118%
127	9.253	9.241	9.264	HH	3342	45180	1.69%	0.057%
128	9.278	9.264	9.299	HH	4687	82556	3.09%	0.104%
129	9.314	9.299	9.334	HH	4058	76984	2.88%	0.097%
130	9.358	9.334	9.379	HH	4377	101649	3.80%	0.128%
131	9.402	9.379	9.419	HH	3972	86758	3.25%	0.109%
132	9.456	9.419	9.477	HH	21484	319336	11.95%	0.403%
133	9.492	9.477	9.524	HH	5793	122140	4.57%	0.154%
134	9.548	9.524	9.574	HH	4595	114222	4.27%	0.144%
135	9.606	9.574	9.625	HH	5277	123145	4.61%	0.155%
136	9.639	9.625	9.653	HH	4852	67876	2.54%	0.086%
137	9.664	9.653	9.673	HH	3811	45092	1.69%	0.057%
138	9.691	9.673	9.713	HH	5945	109027	4.08%	0.138%
139	9.722	9.713	9.727	HH	3798	30627	1.15%	0.039%
140	9.744	9.727	9.767	HH	6031	113482	4.25%	0.143%
141	9.788	9.767	9.809	HH	6713	128377	4.80%	0.162%

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142	9.832	9.809	9.868	HH	8815	220400	8.25%	0.278%
143	9.878	9.868	9.886	HH	4318	44650	1.67%	0.056%
144	9.911	9.886	9.942	HH	7324	188832	7.07%	0.238%
145	9.968	9.942	9.994	HH	7603	177121	6.63%	0.224%
146	10.017	9.994	10.051	HH	5986	171839	6.43%	0.217%
147	10.106	10.051	10.131	HH	71573	892973	33.41%	1.127%
148	10.151	10.131	10.165	HH	5801	108897	4.07%	0.137%
149	10.198	10.165	10.214	HH	6166	162035	6.06%	0.204%
150	10.238	10.214	10.263	HH	32961	450841	16.87%	0.569%
151	10.271	10.263	10.295	HH	5845	95920	3.59%	0.121%
152	10.316	10.295	10.330	HH	4580	91257	3.41%	0.115%
153	10.344	10.330	10.390	HH	5052	150603	5.64%	0.190%
154	10.414	10.390	10.442	HH	5387	138539	5.18%	0.175%
155	10.455	10.442	10.471	HH	4162	69235	2.59%	0.087%
156	10.476	10.471	10.480	HH	4010	22662	0.85%	0.029%
157	10.484	10.480	10.488	HH	4019	18637	0.70%	0.024%
158	10.515	10.488	10.533	HH	4549	113669	4.25%	0.143%
159	10.546	10.533	10.557	HH	4274	59585	2.23%	0.075%
160	10.581	10.557	10.604	HH	10404	198049	7.41%	0.250%
161	10.628	10.604	10.656	HH	14834	278745	10.43%	0.352%
162	10.681	10.656	10.698	HH	7838	159243	5.96%	0.201%
163	10.715	10.698	10.738	HH	8311	157092	5.88%	0.198%
164	10.755	10.738	10.762	HH	6933	85711	3.21%	0.108%
165	10.772	10.762	10.810	HH	7070	160867	6.02%	0.203%
166	10.830	10.810	10.864	HH	6237	177528	6.64%	0.224%
167	10.884	10.864	10.917	HH	8185	205823	7.70%	0.260%
168	10.931	10.917	10.944	HH	5619	86520	3.24%	0.109%
169	10.979	10.944	11.018	HH	36002	609074	22.79%	0.769%
170	11.051	11.018	11.079	HH	21543	429981	16.09%	0.543%
171	11.103	11.079	11.128	HH	6683	178398	6.68%	0.225%
172	11.132	11.128	11.157	HH	5244	88151	3.30%	0.111%
173	11.178	11.157	11.192	HH	5397	110403	4.13%	0.139%
174	11.201	11.192	11.211	HH	5589	61365	2.30%	0.077%
175	11.236	11.211	11.281	HH	33576	569565	21.31%	0.719%
176	11.312	11.281	11.343	HH	27551	470868	17.62%	0.594%
177	11.373	11.343	11.415	HH	7856	274753	10.28%	0.347%
178	11.433	11.415	11.471	HH	6963	191981	7.18%	0.242%
179	11.488	11.471	11.505	HH	6652	120804	4.52%	0.152%
180	11.524	11.505	11.539	HH	7709	129725	4.85%	0.164%
181	11.543	11.539	11.569	HH	6226	99688	3.73%	0.126%
182	11.597	11.569	11.610	HH	5909	130963	4.90%	0.165%
183	11.650	11.610	11.658	HH	6583	176440	6.60%	0.223%
184	11.685	11.658	11.743	HH	32659	623430	23.33%	0.787%
185	11.775	11.743	11.817	HH	15519	402506	15.06%	0.508%
186	11.839	11.817	11.862	HH	6527	155138	5.81%	0.196%
187	11.885	11.862	11.905	HH	7025	161516	6.04%	0.204%
188	11.929	11.905	11.934	HH	6410	101329	3.79%	0.128%
189	11.948	11.934	11.964	HH	7128	121221	4.54%	0.153%
190	11.987	11.964	12.015	HH	7231	209304	7.83%	0.264%
191	12.041	12.015	12.057	HH	12225	214329	8.02%	0.270%
192	12.073	12.057	12.105	HH	14462	272246	10.19%	0.344%
193	12.139	12.105	12.144	HH	10333	188124	7.04%	0.237%
194	12.158	12.144	12.176	HH	13150	208177	7.79%	0.263%

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195	12.190	12.176	12.205	HH	11280	164637	6.16%	0.208%
196	12.221	12.205	12.249	HH	12303	226741	8.48%	0.286%
197	12.257	12.249	12.272	HH	5604	73728	2.76%	0.093%
198	12.289	12.272	12.312	HH	6190	143192	5.36%	0.181%
199	12.356	12.312	12.381	HH	30196	547970	20.50%	0.692%
200	12.398	12.381	12.419	HH	11539	197058	7.37%	0.249%
201	12.450	12.419	12.493	HH	8206	307005	11.49%	0.387%
202	12.513	12.493	12.534	HH	9239	177545	6.64%	0.224%
203	12.546	12.534	12.559	HH	6557	95186	3.56%	0.120%
204	12.577	12.559	12.587	HH	6740	106001	3.97%	0.134%
205	12.608	12.587	12.653	HH	65154	962038	36.00%	1.214%
206	12.664	12.653	12.683	HH	8564	143777	5.38%	0.181%
207	12.694	12.683	12.707	HH	7179	97625	3.65%	0.123%
208	12.725	12.707	12.732	HH	7707	110468	4.13%	0.139%
209	12.741	12.732	12.754	HH	7689	94664	3.54%	0.119%
210	12.769	12.754	12.805	HH	8451	231282	8.65%	0.292%
211	12.834	12.805	12.872	HH	9271	295785	11.07%	0.373%
212	12.893	12.872	12.923	HH	10911	245509	9.19%	0.310%
213	12.946	12.923	12.964	HH	14677	262054	9.81%	0.331%
214	12.998	12.964	13.033	HH	27173	572468	21.42%	0.722%
215	13.062	13.033	13.107	HH	114947	1480886	55.41%	1.869%
216	13.120	13.107	13.138	HH	6492	116122	4.35%	0.147%
217	13.160	13.138	13.169	HH	6582	113746	4.26%	0.144%
218	13.199	13.169	13.232	HH	12171	325569	12.18%	0.411%
219	13.251	13.232	13.287	HH	11078	295812	11.07%	0.373%
220	13.302	13.287	13.334	HH	8122	209396	7.84%	0.264%
221	13.362	13.334	13.385	HH	103774	1268015	47.45%	1.600%
222	13.417	13.385	13.432	HH	14053	305114	11.42%	0.385%
223	13.448	13.432	13.477	HH	14568	269788	10.10%	0.340%
224	13.499	13.477	13.517	HH	7810	170335	6.37%	0.215%
225	13.534	13.517	13.545	HH	8894	137207	5.13%	0.173%
226	13.556	13.545	13.583	HH	8385	168029	6.29%	0.212%
227	13.612	13.583	13.649	HH	19933	475339	17.79%	0.600%
228	13.654	13.649	13.672	HH	8790	120283	4.50%	0.152%
229	13.697	13.672	13.723	HH	10600	274862	10.28%	0.347%
230	13.732	13.723	13.744	HH	7777	93623	3.50%	0.118%
231	13.758	13.744	13.777	HH	9797	171170	6.40%	0.216%
232	13.785	13.777	13.799	HH	8640	110988	4.15%	0.140%
233	13.821	13.799	13.834	HH	13963	244647	9.15%	0.309%
234	13.843	13.834	13.901	HH	12736	390724	14.62%	0.493%
235	13.952	13.901	13.984	HH	23454	622329	23.29%	0.785%
236	14.016	13.984	14.035	HH	8992	256412	9.59%	0.324%
237	14.059	14.035	14.079	HH	15360	298784	11.18%	0.377%
238	14.099	14.079	14.125	HH	16367	319758	11.96%	0.404%
239	14.148	14.125	14.167	HH	10234	230644	8.63%	0.291%
240	14.201	14.167	14.216	HH	19106	407596	15.25%	0.514%
241	14.230	14.216	14.250	HH	17429	279797	10.47%	0.353%
242	14.270	14.250	14.304	HH	15118	344005	12.87%	0.434%
243	14.307	14.304	14.312	HH	8343	41180	1.54%	0.052%
244	14.346	14.312	14.363	HH	9393	265569	9.94%	0.335%
245	14.382	14.363	14.393	HH	8810	147778	5.53%	0.186%
246	14.399	14.393	14.403	HH	8512	52028	1.95%	0.066%

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247	14.432	14.403	14.452	HH	9474	261887	9.80%	0.330%
248	14.459	14.452	14.473	HH	8616	108124	4.05%	0.136%
249	14.484	14.473	14.498	HH	8793	124771	4.67%	0.157%
250	14.537	14.498	14.549	HH	9138	265088	9.92%	0.335%
251	14.592	14.549	14.611	HH	12045	381230	14.27%	0.481%
252	14.653	14.611	14.667	HH	12072	371864	13.91%	0.469%
253	14.687	14.667	14.709	HH	17579	344454	12.89%	0.435%
254	14.713	14.709	14.742	HH	11449	213254	7.98%	0.269%
255	14.765	14.742	14.782	HH	16747	330195	12.36%	0.417%
256	14.795	14.782	14.822	HH	13075	285915	10.70%	0.361%
257	14.868	14.822	14.907	HH	21086	728325	27.25%	0.919%
258	14.932	14.907	14.954	HH	27722	522046	19.53%	0.659%
259	14.991	14.954	15.024	HH	21688	647007	24.21%	0.816%
260	15.058	15.024	15.068	HH	13250	326784	12.23%	0.412%
261	15.104	15.068	15.175	HH	83231	1807306	67.63%	2.281%
262	15.197	15.175	15.216	HH	18219	374897	14.03%	0.473%
263	15.244	15.216	15.264	HH	69787	1061746	39.73%	1.340%
264	15.286	15.264	15.326	HH	78536	1333818	49.91%	1.683%
265	15.346	15.326	15.366	HH	15404	351153	13.14%	0.443%
266	15.406	15.366	15.437	HH	27242	813527	30.44%	1.027%
267	15.445	15.437	15.465	HH	16520	274422	10.27%	0.346%
268	15.484	15.465	15.515	HH	18260	483731	18.10%	0.610%
269	15.546	15.515	15.569	HH	20169	560721	20.98%	0.708%
270	15.587	15.569	15.638	HH	19938	730847	27.35%	0.922%
271	15.689	15.638	15.752	HH	52423	1689295	63.21%	2.132%
272	15.765	15.752	15.772	HH	16717	198907	7.44%	0.251%
273	15.830	15.772	15.861	HH	21618	996923	37.30%	1.258%
274	15.918	15.861	15.940	HH	32240	1116573	41.78%	1.409%
275	15.958	15.940	15.984	HH	24224	556538	20.82%	0.702%
276	16.002	15.984	16.018	HH	20443	407635	15.25%	0.514%
277	16.082	16.018	16.117	HH	27786	1363069	51.00%	1.720%
278	16.162	16.117	16.186	HH	23122	867857	32.47%	1.095%
279	16.210	16.186	16.227	HH	22620	535066	20.02%	0.675%
280	16.245	16.227	16.269	HH	24043	563269	21.08%	0.711%
281	16.277	16.269	16.293	HH	22636	327816	12.27%	0.414%
282	16.336	16.293	16.378	HH	27064	1236224	46.26%	1.560%
283	16.398	16.378	16.425	HH	23208	637162	23.84%	0.804%
284	16.454	16.425	16.487	HH	23689	861904	32.25%	1.088%
285	16.532	16.487	16.569	HH	27905	1246552	46.64%	1.573%
286	16.591	16.569	16.607	HH	28227	604021	22.60%	0.762%
287	16.632	16.607	16.661	HH	31156	937303	35.07%	1.183%
288	16.671	16.661	16.679	HH	27657	295195	11.05%	0.373%
289	16.708	16.679	16.759	HH	42288	1609824	60.24%	2.031%
290	16.811	16.759	16.828	HH	112094	2326081	87.04%	2.935%
291	16.836	16.828	16.869	HH	61793	1074704	40.21%	1.356%
292	16.898	16.869	16.916	HH	34683	898777	33.63%	1.134%
293	16.939	16.916	16.964	HH	45061	1078918	40.37%	1.362%
294	16.974	16.964	17.013	HH	34895	1009629	37.78%	1.274%
295	17.034	17.013	17.046	HH	34507	656131	24.55%	0.828%
296	17.059	17.046	17.073	HH	35282	571336	21.38%	0.721%
297	17.132	17.073	17.160	HH	86148	2672478	100.00%	3.372%
298	17.189	17.160	17.228	HH	97643	2225005	83.26%	2.808%
299	17.289	17.228	17.312	HH	57588	2141835	80.14%	2.703%

					rteres			
300	17.342	17.312	17.371	HH	43650	1465105	54.82%	1.849%
301	17.400	17.371	17.408	HH	40960	903510	33.81%	1.140%
302	17.437	17.408	17.442	HH	44226	872030	32.63%	1.100%
303	17.447	17.442	17.478	HH	44170	906709	33.93%	1.144%
					Sum of corrected areas:	79243553		

FF061325.M Wed Jul 09 04:18:57 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-97	SDG No.:	Q2514
Lab Sample ID:	Q2514-05	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	85
Sample Wt/Vol:	30.05	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
FG016256.D	1	07/08/25 08:35	07/08/25 20:54	PB168751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	5350		198	1960	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	9.61		37 - 130	48%	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\FG070825\
Data File : FG016256.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 20:54
Operator : YP\AJ
Sample : Q2514-05
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-97

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/09/2025
Supervised By :mohammad ahmed 07/10/2025

Integration File: Sample.e
Quant Time: Jul 09 03:16:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.200	1127340	9.611 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016256.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 20:54
Operator : YP\AJ
Sample : Q2514-05
Misc :
ALS Vial : 29 Sample Multiplier: 1

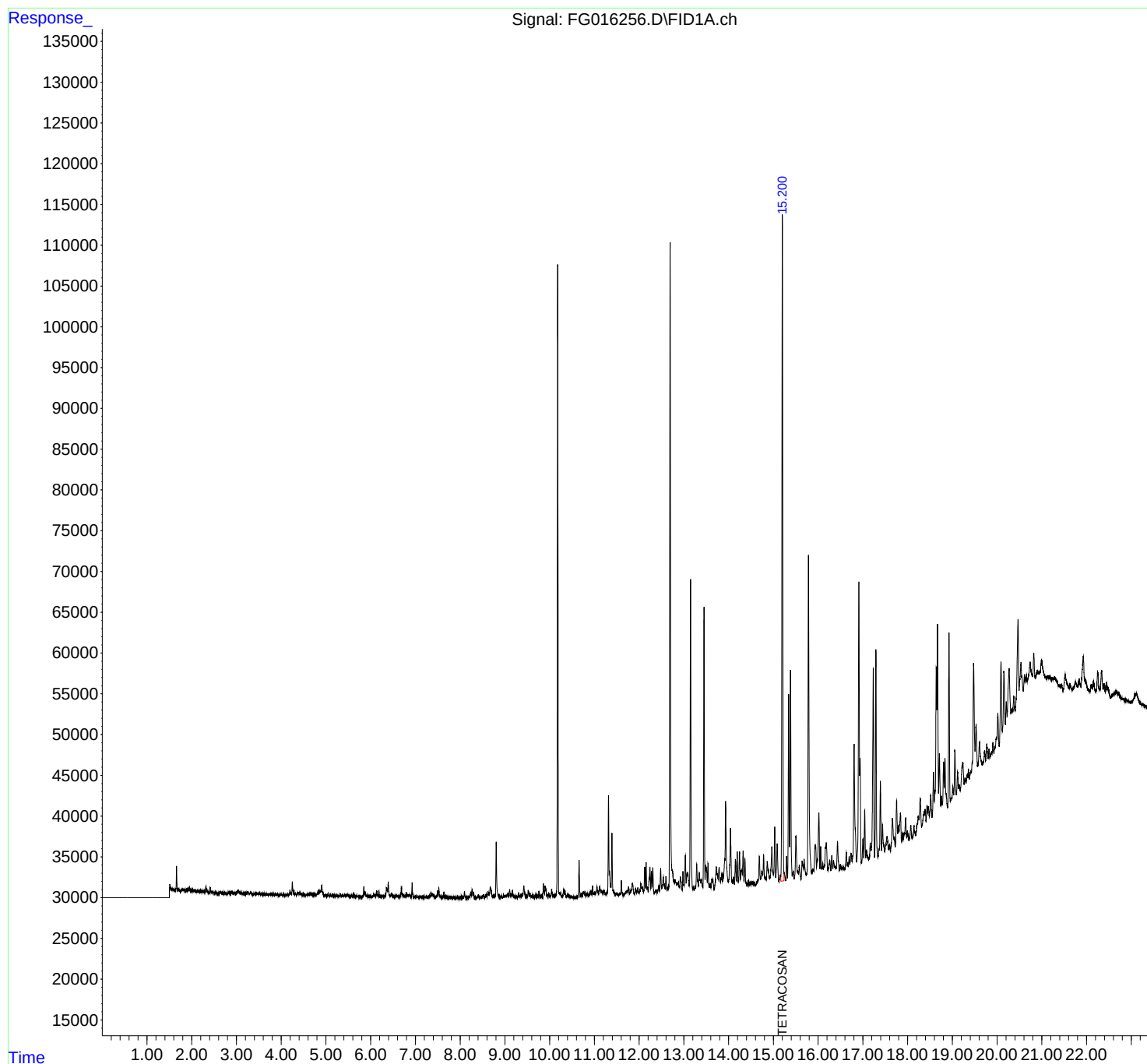
Instrument :
FID_G
ClientSampleId :
TP-97

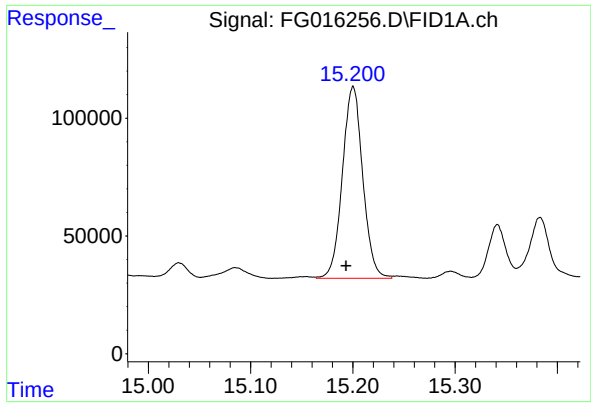
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/09/2025
Supervised By :mohammad ahmed 07/10/2025

Integration File: Sample.e
Quant Time: Jul 09 03:16:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.200 min
Delta R.T.: 0.006 min
Response: 1127340
Conc: 9.61 ug/ml

Instrument :

FID_G

ClientSampleId :

TP-97

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/09/2025

Supervised By :mohammad ahmed 07/10/2025

Instrument :

FID_G

ClientSampleId :

TP-97

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/09/2025

Supervised By :mohammad ahmed 07/10/2025

rteres

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG07082
Data File : FG016256.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 20:54
Sample : Q2514-05
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.370	4.352	4.386	VV	596	9984	0.79%	0.053%
2	4.400	4.386	4.459	VV	630	22023	1.73%	0.116%
3	4.471	4.459	4.485	VV	432	6144	0.48%	0.032%
4	4.491	4.485	4.504	VH	404	4055	0.32%	0.021%
5	4.509	4.504	4.515	HH	360	2289	0.18%	0.012%
6	4.520	4.515	4.536	HH	417	4032	0.32%	0.021%
7	4.547	4.536	4.564	HH	365	5229	0.41%	0.028%
8	4.568	4.564	4.574	HH	334	1672	0.13%	0.009%
9	4.592	4.574	4.617	HH	514	10260	0.81%	0.054%
10	4.634	4.617	4.651	HH	485	8120	0.64%	0.043%
11	4.658	4.651	4.661	HH	400	2194	0.17%	0.012%
12	4.672	4.661	4.696	HH	607	9287	0.73%	0.049%
13	4.713	4.696	4.736	HH	435	8271	0.65%	0.044%
14	4.758	4.736	4.776	HH	435	8360	0.66%	0.044%
15	4.782	4.776	4.794	HH	418	4063	0.32%	0.021%
16	4.838	4.794	4.852	HH	886	20823	1.64%	0.110%
17	4.858	4.852	4.862	HH	671	3877	0.31%	0.020%
18	4.904	4.862	4.966	HH	1461	44408	3.49%	0.234%
19	4.971	4.966	4.997	HH	312	5160	0.41%	0.027%
20	5.001	4.997	5.011	HH	256	1862	0.15%	0.010%
21	5.041	5.011	5.046	HH	422	6356	0.50%	0.034%
22	5.049	5.046	5.084	HH	391	6050	0.48%	0.032%
23	5.089	5.084	5.093	HH	197	1053	0.08%	0.006%
24	5.104	5.093	5.133	HH	281	5332	0.42%	0.028%
25	5.137	5.133	5.141	HH	211	987	0.08%	0.005%
26	5.171	5.141	5.196	HH	324	7982	0.63%	0.042%
27	5.201	5.196	5.221	HH	270	3293	0.26%	0.017%
28	5.231	5.221	5.240	HH	245	2498	0.20%	0.013%
29	5.247	5.240	5.262	HH	238	2629	0.21%	0.014%
30	5.294	5.262	5.302	HH	279	4846	0.38%	0.026%
31	5.311	5.302	5.322	HH	293	3052	0.24%	0.016%
32	5.328	5.322	5.366	HH	382	5694	0.45%	0.030%
33	5.380	5.366	5.409	HH	377	6338	0.50%	0.033%
34	5.411	5.409	5.414	HH	272	692	0.05%	0.004%
35	5.428	5.414	5.436	HH	290	3262	0.26%	0.017%
36	5.442	5.436	5.448	HH	238	1510	0.12%	0.008%

					retention			
37	5.451	5.448	5.458	HH	189	1078	0.08%	0.006%
38	5.480	5.458	5.542	HH	357	9715		
39	5.546	5.542	5.550	HH	141	724		
40	5.557	5.550	5.573	HH	247	2505		
41	5.579	5.573	5.584	HH	197	947		
42	5.588	5.584	5.592	HH	121	559		
43	5.595	5.592	5.600	HH	168	559	0.04%	0.003%
44	5.616	5.600	5.640	HH	577	7218	0.57%	0.038%
45	5.655	5.640	5.698	HH	263	5068	0.40%	0.027%
46	5.703	5.698	5.717	HH	153	1530	0.12%	0.008%
47	5.724	5.717	5.741	HH	142	1579	0.12%	0.008%
48	5.745	5.741	5.757	HH	141	952	0.07%	0.005%
49	5.764	5.757	5.769	HH	107	627	0.05%	0.003%
50	5.773	5.769	5.779	HH	97	431	0.03%	0.002%
51	5.784	5.779	5.802	HH	65	883	0.07%	0.005%
52	5.815	5.802	5.824	HH	248	1902	0.15%	0.010%
53	5.828	5.824	5.830	HH	153	514	0.04%	0.003%
54	5.847	5.830	5.863	HH	1359	13738	1.08%	0.072%
55	5.874	5.863	5.904	HH	729	9266	0.73%	0.049%
56	5.917	5.904	5.951	HH	371	5304	0.42%	0.028%
57	5.957	5.951	5.972	HH	164	1428	0.11%	0.008%
58	6.007	5.972	6.028	HH	175	3008	0.24%	0.016%
59	6.059	6.028	6.083	HH	363	7116	0.56%	0.038%
60	6.089	6.083	6.106	HH	381	3355	0.26%	0.018%
61	6.110	6.106	6.117	HH	146	952	0.07%	0.005%
62	6.132	6.117	6.164	HH	815	11665	0.92%	0.062%
63	6.182	6.164	6.209	HH	723	9018	0.71%	0.048%
64	6.216	6.209	6.221	HH	142	701	0.06%	0.004%
65	6.225	6.221	6.238	HH	157	1393	0.11%	0.007%
66	6.242	6.238	6.264	HH	171	2296	0.18%	0.012%
67	6.268	6.264	6.288	HH	195	1969	0.15%	0.010%
68	6.291	6.288	6.312	HH	156	1710	0.13%	0.009%
69	6.325	6.312	6.331	HH	289	2248	0.18%	0.012%
70	6.354	6.331	6.376	HH	1211	20569	1.62%	0.108%
71	6.393	6.376	6.438	HH	1908	29322	2.31%	0.155%
72	6.463	6.438	6.493	HH	609	9945	0.78%	0.052%
73	6.499	6.493	6.509	HH	236	1557	0.12%	0.008%
74	6.513	6.509	6.518	HH	135	661	0.05%	0.003%
75	6.522	6.518	6.529	HH	135	667	0.05%	0.004%
76	6.539	6.529	6.553	HH	215	1866	0.15%	0.010%
77	6.570	6.553	6.612	HH	254	5601	0.44%	0.030%
78	6.620	6.612	6.626	HH	188	1117	0.09%	0.006%
79	6.631	6.626	6.663	HH	201	3515	0.28%	0.019%
80	6.687	6.663	6.702	HH	1260	16343	1.29%	0.086%
81	6.709	6.702	6.728	HH	500	4919	0.39%	0.026%
82	6.739	6.728	6.776	HH	245	5475	0.43%	0.029%
83	6.790	6.776	6.798	HH	448	3885	0.31%	0.020%
84	6.803	6.798	6.808	HH	310	1591	0.13%	0.008%
85	6.812	6.808	6.819	HH	322	1765	0.14%	0.009%
86	6.823	6.819	6.827	HH	279	1239	0.10%	0.007%
87	6.839	6.827	6.846	HH	318	3102	0.24%	0.016%
88	6.851	6.846	6.861	HH	342	2728	0.21%	0.014%
89	6.865	6.861	6.886	HH	266	3157	0.25%	0.017%

Instrument :

FID_G

ClientSampleId :

TP-97

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/09/2025

Supervised By :mohammad ahmed 07/10/2025

90	6.890	6.886	6.904	HH	172	1406	0.11%	0.007%
91	6.926	6.904	6.986	HH	1821	21826		
92	6.990	6.986	6.994	HH	104	324		
93	6.996	6.994	7.000	HH	98	254		
94	7.010	7.000	7.037	HH	170	1768		
95	7.059	7.037	7.066	PH	186	1570		
96	7.067	7.066	7.089	HH	117	386	0.03%	0.002%
97	7.137	7.089	7.161	PH	121	2131	0.17%	0.011%
98	7.180	7.161	7.205	PH	180	1349	0.11%	0.007%
99	7.219	7.205	7.242	PH	108	889	0.07%	0.005%
100	7.267	7.242	7.273	PH	117	887	0.07%	0.005%
101	7.279	7.273	7.284	PH	35	169	0.01%	0.001%
102	7.311	7.284	7.328	PH	264	3264	0.26%	0.017%
103	7.344	7.328	7.369	HH	565	9125	0.72%	0.048%
104	7.380	7.369	7.386	HH	428	3819	0.30%	0.020%
105	7.390	7.386	7.419	HH	366	5112	0.40%	0.027%
106	7.437	7.419	7.464	HH	193	3252	0.26%	0.017%
107	7.466	7.464	7.469	HH	147	352	0.03%	0.002%
108	7.494	7.469	7.507	HH	859	9279	0.73%	0.049%
109	7.522	7.507	7.551	HH	1216	13740	1.08%	0.072%
110	7.556	7.551	7.611	HH	116	1615	0.13%	0.009%
111	7.633	7.611	7.660	PH	636	6075	0.48%	0.032%
112	7.671	7.660	7.692	PH	235	1712	0.13%	0.009%
113	7.702	7.692	7.721	PH	110	442	0.03%	0.002%
114	7.726	7.721	7.742	PH	16	75	0.01%	0.000%
115	7.753	7.742	7.771	PH	48	-41	-0.00%	-0.000%
116	7.800	7.771	7.804	PH	165	403	0.03%	0.002%
117	7.808	7.804	7.824	HH	102	311	0.02%	0.002%
118	7.827	7.824	7.844	PH	56	-137	-0.01%	-0.001%
119	7.865	7.844	7.873	PH	130	298	0.02%	0.002%
120	7.888	7.873	7.897	PH	26	-277	-0.02%	-0.001%
121	7.901	7.897	7.906	PH	36	-83	-0.01%	-0.000%
122	7.915	7.906	7.925	PH	54	121	0.01%	0.001%
123	7.933	7.925	7.937	PH	86	281	0.02%	0.001%
124	7.944	7.937	7.960	HH	110	126	0.01%	0.001%
125	7.973	7.960	8.000	PH	29	-752	-0.06%	-0.004%
126	8.025	8.000	8.076	PH	207	231	0.02%	0.001%
127	8.097	8.076	8.142	PH	744	6933	0.55%	0.037%
128	8.147	8.142	8.154	PH	-28	-320	-0.03%	-0.002%
129	8.157	8.154	8.177	PH	29	-560	-0.04%	-0.003%
130	8.189	8.177	8.209	PH	78	6	0.00%	0.000%
131	8.235	8.209	8.251	PH	551	7252	0.57%	0.038%
132	8.268	8.251	8.282	HH	1000	11489	0.90%	0.061%
133	8.293	8.282	8.331	HH	686	8017	0.63%	0.042%
134	8.336	8.331	8.358	PH	22	-159	-0.01%	-0.001%
135	8.406	8.358	8.444	PH	304	4532	0.36%	0.024%
136	8.450	8.444	8.455	HH	35	184	0.01%	0.001%
137	8.461	8.455	8.476	PH	105	600	0.05%	0.003%
138	8.496	8.476	8.502	HH	182	1286	0.10%	0.007%
139	8.518	8.502	8.544	HH	350	3928	0.31%	0.021%
140	8.581	8.544	8.600	PH	452	6588	0.52%	0.035%
141	8.620	8.600	8.637	HH	744	9152	0.72%	0.048%

Instrument :

FID_G

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TP-97

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					retention			
142	8.673	8.637	8.722	HH	1353	34231	2.69%	0.181%
143	8.728	8.722	8.744	HH	205	2102		
144	8.756	8.744	8.760	HH	171	1219		
145	8.765	8.760	8.780	HH	189	1943		
146	8.806	8.780	8.851	HH	6793	84087		
147	8.859	8.851	8.879	HH	288	2934		
148	8.893	8.879	8.911	HH	186	1536	0.12%	0.008%
149	8.923	8.911	8.947	PH	245	1712	0.13%	0.009%
150	8.967	8.947	8.993	PH	337	3878	0.31%	0.020%
151	9.017	8.993	9.027	HH	277	3616	0.28%	0.019%
152	9.031	9.027	9.039	HH	231	1355	0.11%	0.007%
153	9.058	9.039	9.087	HH	418	8126	0.64%	0.043%
154	9.106	9.087	9.146	HH	972	14814	1.17%	0.078%
155	9.166	9.146	9.194	HH	796	11380	0.90%	0.060%
156	9.201	9.194	9.221	HH	165	1582	0.12%	0.008%
157	9.233	9.221	9.261	HH	226	2525	0.20%	0.013%
158	9.264	9.261	9.278	PH	82	270	0.02%	0.001%
159	9.304	9.278	9.323	PH	547	6773	0.53%	0.036%
160	9.328	9.323	9.336	HH	187	896	0.07%	0.005%
161	9.351	9.336	9.366	HH	256	3361	0.26%	0.018%
162	9.383	9.366	9.397	HH	519	6046	0.48%	0.032%
163	9.423	9.397	9.468	HH	1410	26179	2.06%	0.138%
164	9.473	9.468	9.498	HH	163	1297	0.10%	0.007%
165	9.522	9.498	9.547	PH	899	12080	0.95%	0.064%
166	9.560	9.547	9.592	HH	456	7148	0.56%	0.038%
167	9.620	9.592	9.654	HH	355	4562	0.36%	0.024%
168	9.681	9.654	9.696	PH	326	4109	0.32%	0.022%
169	9.711	9.696	9.732	HH	400	4255	0.33%	0.022%
170	9.763	9.732	9.786	HH	772	9901	0.78%	0.052%
171	9.798	9.786	9.802	HH	130	1037	0.08%	0.005%
172	9.816	9.802	9.835	HH	298	3532	0.28%	0.019%
173	9.860	9.835	9.882	PH	1667	22128	1.74%	0.117%
174	9.900	9.882	9.962	HH	1372	31264	2.46%	0.165%
175	9.980	9.962	10.021	HH	495	9303	0.73%	0.049%
176	10.044	10.021	10.076	HH	1065	15882	1.25%	0.084%
177	10.087	10.076	10.100	HH	336	2904	0.23%	0.015%
178	10.111	10.100	10.118	HH	287	1984	0.16%	0.010%
179	10.121	10.118	10.134	HH	199	1781	0.14%	0.009%
180	10.180	10.134	10.211	HH	77503	794606	62.53%	4.191%
181	10.222	10.211	10.240	HH	615	9066	0.71%	0.048%
182	10.245	10.240	10.269	HH	533	5363	0.42%	0.028%
183	10.274	10.269	10.289	HH	176	1586	0.12%	0.008%
184	10.314	10.289	10.331	HH	959	14410	1.13%	0.076%
185	10.345	10.331	10.368	HH	870	10665	0.84%	0.056%
186	10.414	10.368	10.439	HH	425	8526	0.67%	0.045%
187	10.453	10.439	10.475	HH	190	2081	0.16%	0.011%
188	10.492	10.475	10.510	HH	118	1340	0.11%	0.007%
189	10.526	10.510	10.547	PH	129	1074	0.08%	0.006%
190	10.569	10.547	10.577	PH	69	305	0.02%	0.002%
191	10.599	10.577	10.608	HH	118	1232	0.10%	0.006%
192	10.619	10.608	10.629	HH	171	1523	0.12%	0.008%
193	10.658	10.629	10.686	HH	4587	52000	4.09%	0.274%
194	10.703	10.686	10.727	HH	464	7147	0.56%	0.038%

Instrument :

FID_G

ClientSampleId :

TP-97

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/09/2025

Supervised By :mohammad ahmed 07/10/2025

195	10.759	10.727	10.777	HH	736	14503	1.14%	0.076%
196	10.790	10.777	10.811	HH	742	9908		
197	10.829	10.811	10.855	HH	515	9049		
198	10.916	10.855	10.942	HH	799	23910		
199	10.959	10.942	10.979	HH	1412	19183		
200	11.008	10.979	11.024	HH	732	13858		
201	11.056	11.024	11.074	HH	1375	24992	1.97%	0.132%
202	11.080	11.074	11.094	HH	777	7945	0.63%	0.042%
203	11.119	11.094	11.146	HH	1364	28454	2.24%	0.150%
204	11.160	11.146	11.177	HH	871	13308	1.05%	0.070%
205	11.181	11.177	11.187	HH	574	3386	0.27%	0.018%
206	11.222	11.187	11.247	HH	840	23308	1.83%	0.123%
207	11.258	11.247	11.269	HH	463	5669	0.45%	0.030%
208	11.283	11.269	11.292	HH	748	8690	0.68%	0.046%
209	11.315	11.292	11.331	HH	12528	135694	10.68%	0.716%
210	11.337	11.331	11.368	HH	3229	47665	3.75%	0.251%
211	11.392	11.368	11.476	HH	7951	122416	9.63%	0.646%
212	11.488	11.476	11.502	HH	531	7384	0.58%	0.039%
213	11.513	11.502	11.528	HH	479	6308	0.50%	0.033%
214	11.568	11.528	11.585	HH	542	14135	1.11%	0.075%
215	11.603	11.585	11.646	HH	2085	31411	2.47%	0.166%
216	11.737	11.646	11.748	HH	921	34496	2.71%	0.182%
217	11.765	11.748	11.793	HH	1355	22895	1.80%	0.121%
218	11.847	11.793	11.897	HH	1764	60602	4.77%	0.320%
219	11.922	11.897	11.942	HH	1078	20701	1.63%	0.109%
220	11.966	11.942	11.994	HH	1157	26677	2.10%	0.141%
221	12.014	11.994	12.020	HH	895	11453	0.90%	0.060%
222	12.035	12.020	12.063	HH	1706	34316	2.70%	0.181%
223	12.071	12.063	12.099	HH	1207	20899	1.64%	0.110%
224	12.125	12.099	12.140	HH	3760	50804	4.00%	0.268%
225	12.156	12.140	12.174	HH	4306	51204	4.03%	0.270%
226	12.184	12.174	12.204	HH	1299	18576	1.46%	0.098%
227	12.241	12.204	12.260	HH	3671	73929	5.82%	0.390%
228	12.275	12.260	12.289	HH	3234	38285	3.01%	0.202%
229	12.305	12.289	12.332	HH	3648	51013	4.01%	0.269%
230	12.346	12.332	12.354	HH	679	7520	0.59%	0.040%
231	12.381	12.354	12.401	HH	1015	21484	1.69%	0.113%
232	12.442	12.401	12.456	HH	1469	33422	2.63%	0.176%
233	12.481	12.456	12.503	HH	3561	56705	4.46%	0.299%
234	12.539	12.503	12.579	HH	2484	75072	5.91%	0.396%
235	12.600	12.579	12.617	HH	2576	40188	3.16%	0.212%
236	12.630	12.617	12.646	HH	1224	18614	1.46%	0.098%
237	12.693	12.646	12.768	HH	80314	1075802	84.66%	5.674%
238	12.779	12.768	12.792	HH	2239	30316	2.39%	0.160%
239	12.808	12.792	12.844	HH	2206	57624	4.53%	0.304%
240	12.855	12.844	12.864	HH	1780	20103	1.58%	0.106%
241	12.876	12.864	12.900	HH	1846	33420	2.63%	0.176%
242	12.922	12.900	12.959	HH	2564	62136	4.89%	0.328%
243	12.980	12.959	13.007	HH	3223	56542	4.45%	0.298%
244	13.033	13.007	13.052	HH	5167	83333	6.56%	0.440%
245	13.075	13.052	13.116	HH	3043	95750	7.53%	0.505%
246	13.150	13.116	13.197	HH	38994	504208	39.68%	2.660%

Instrument :

FID_G

ClientSampleId :

TP-97

Manual IntegrationsAPPROVED

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Supervised By :mohammad ahmed 07/10/2025

					rters			
247	13.212	13.197	13.227	HH	1256	20153	1.59%	0.106%
248	13.244	13.227	13.259	HH	1368	22462		
249	13.288	13.259	13.325	HH	4157	90787		
250	13.343	13.325	13.381	HH	3035	76231		
251	13.394	13.381	13.425	HH	2199	46602		
252	13.451	13.425	13.474	HH	35392	415689	32	
253	13.489	13.474	13.498	HH	3943	48561	3.82%	0.256%
254	13.507	13.498	13.523	HH	3564	44917	3.53%	0.237%
255	13.539	13.523	13.569	HH	4195	67899	5.34%	0.358%
256	13.588	13.569	13.607	HH	1601	32990	2.60%	0.174%
257	13.627	13.607	13.638	HH	2268	35634	2.80%	0.188%
258	13.649	13.638	13.677	HH	2104	37878	2.98%	0.200%
259	13.725	13.677	13.765	HH	3784	130069	10.24%	0.686%
260	13.788	13.765	13.814	HH	3726	83329	6.56%	0.440%
261	13.827	13.814	13.834	HH	2315	26402	2.08%	0.139%
262	13.850	13.834	13.867	HH	3017	50723	3.99%	0.268%
263	13.933	13.867	13.992	HH	11791	330613	26.02%	1.744%
264	14.043	13.992	14.084	HH	8511	209223	16.46%	1.104%
265	14.112	14.084	14.129	HH	2463	55771	4.39%	0.294%
266	14.152	14.129	14.173	HH	4647	83966	6.61%	0.443%
267	14.193	14.173	14.214	HH	5585	85763	6.75%	0.452%
268	14.244	14.214	14.263	HH	5602	101630	8.00%	0.536%
269	14.292	14.263	14.306	HH	3371	76688	6.03%	0.405%
270	14.324	14.306	14.344	HH	5769	89195	7.02%	0.470%
271	14.364	14.344	14.406	HH	4732	99374	7.82%	0.524%
272	14.439	14.406	14.456	HH	2061	53770	4.23%	0.284%
273	14.478	14.456	14.494	HH	1891	38929	3.06%	0.205%
274	14.530	14.494	14.572	HH	1918	82791	6.52%	0.437%
275	14.576	14.572	14.601	HH	1762	28063	2.21%	0.148%
276	14.634	14.601	14.644	HH	2007	45618	3.59%	0.241%
277	14.685	14.644	14.712	HH	5091	123725	9.74%	0.653%
278	14.747	14.712	14.766	HH	3197	89251	7.02%	0.471%
279	14.782	14.766	14.841	HH	5217	138688	10.91%	0.732%
280	14.864	14.841	14.880	HH	4450	83208	6.55%	0.439%
281	14.889	14.880	14.911	HH	3375	54471	4.29%	0.287%
282	14.916	14.911	14.926	HH	2479	22279	1.75%	0.118%
283	14.965	14.926	14.986	HH	6198	145688	11.46%	0.768%
284	14.991	14.986	15.006	HH	3164	35760	2.81%	0.189%
285	15.030	15.006	15.051	HH	8633	139276	10.96%	0.735%
286	15.085	15.051	15.120	HH	6575	164499	12.94%	0.868%
287	15.154	15.120	15.164	HH	2765	62865	4.95%	0.332%
288	15.200	15.164	15.272	HH	83587	1270776	100.00%	6.703%
289	15.296	15.272	15.316	HH	5056	90033	7.08%	0.475%
290	15.341	15.316	15.360	HH	24847	326718	25.71%	1.723%
291	15.383	15.360	15.422	HH	27808	435053	34.24%	2.295%
292	15.445	15.422	15.466	HH	3186	73754	5.80%	0.389%
293	15.505	15.466	15.564	HH	7585	239961	18.88%	1.266%
294	15.580	15.564	15.621	HH	3977	104377	8.21%	0.551%
295	15.643	15.621	15.671	HH	4498	109879	8.65%	0.580%
296	15.688	15.671	15.737	HH	4649	141919	11.17%	0.749%
297	15.785	15.737	15.857	HH	41796	802715	63.17%	4.234%
298	15.862	15.857	15.871	HH	3213	25320	1.99%	0.134%
299	15.887	15.871	15.902	HH	3505	63614	5.01%	0.336%

Instrument :

FID_G

ClientSampleId :

TP-97

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/09/2025

Supervised By :mohammad ahmed 07/10/2025

300	15.932	15.902	15.939	HH	6477	109928	8.65%	0.580%
301	15.944	15.939	15.965	HH	6239	82900		
302	15.981	15.965	15.987	HH	4799	58245		
303	16.017	15.987	16.040	HH	10339	225254	17.01%	1.140%
304	16.057	16.040	16.082	HH	6213	117243	9.09%	0.609%
305	16.103	16.082	16.118	HH	4220	82197	6.13%	0.413%
306	16.165	16.118	16.170	HH	6224	140385	11.05%	0.740%
307	16.184	16.170	16.219	HH	6750	152607	12.01%	0.805%
308	16.259	16.219	16.285	HH	4599	154139	12.13%	0.813%
309	16.306	16.285	16.331	HH	5156	115534	9.09%	0.609%
310	16.347	16.331	16.388	HH	4566	136915	10.77%	0.722%
311	16.394	16.388	16.400	HH	3765	25739	2.03%	0.136%
312	16.434	16.400	16.476	HH	6867	216138	17.01%	1.140%
313	16.497	16.476	16.521	HH	4085	99522	7.83%	0.525%
314	16.526	16.521	16.544	HH	3645	49400	3.89%	0.261%
315	16.554	16.544	16.597	HH	3827	116209	9.14%	0.613%
316	16.633	16.597	16.651	HH	5511	144274	11.35%	0.761%
317	16.662	16.651	16.677	HH	4269	64493	5.08%	0.340%
318	16.695	16.677	16.712	HH	5035	92134	7.25%	0.486%
319	16.738	16.712	16.759	HH	5432	139629	10.99%	0.736%
320	16.805	16.759	16.861	HH	18779	532688	41.92%	2.810%
321	16.912	16.861	16.931	HH	38664	679837	53.50%	3.586%
322	16.939	16.931	16.974	HH	17083	253291	19.93%	1.336%
323	17.002	16.974	17.022	HH	7204	164200	12.92%	0.866%
324	17.042	17.022	17.066	HH	10711	194609	15.31%	1.026%
325	17.081	17.066	17.141	HH	5740	227842	17.93%	1.202%
326	17.168	17.141	17.182	HH	6728	143879	11.32%	0.759%
327	17.235	17.182	17.263	HH	28032	614739	48.38%	3.243%
328	17.293	17.263	17.337	HH	30412	544221	42.83%	2.871%
329	17.393	17.337	17.421	HH	14291	385909	30.37%	2.036%
330	17.441	17.421	17.491	HH	8925	290225	22.84%	1.531%

Sum of corrected areas: 18958694

FG061325.M Wed Jul 09 05:47:31 2025

Instrument :
FID_G
ClientSampleId :
TP-97

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/09/2025
Supervised By :mohammad ahmed 07/10/2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-103	SDG No.:	Q2514
Lab Sample ID:	Q2514-06	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	86.5
Sample Wt/Vol:	30.09	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
FF016109.D	1	07/08/25 08:35	07/08/25 18:54	PB168751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	9020		195	1920	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	7.71		37 - 130	39%	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\FF070825\
Data File : FF016109.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 18:54
Operator : YP\AJ
Sample : Q2514-06
Misc :
ALS Vial : 78 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-103

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/09/2025
Supervised By :mohammad ahmed 07/10/2025

Integration File: autoint1.e
Quant Time: Jul 09 02:39:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.101	931108	7.711 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
Data File : FF016109.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 18:54
Operator : YP\AJ
Sample : Q2514-06
Misc :
ALS Vial : 78 Sample Multiplier: 1

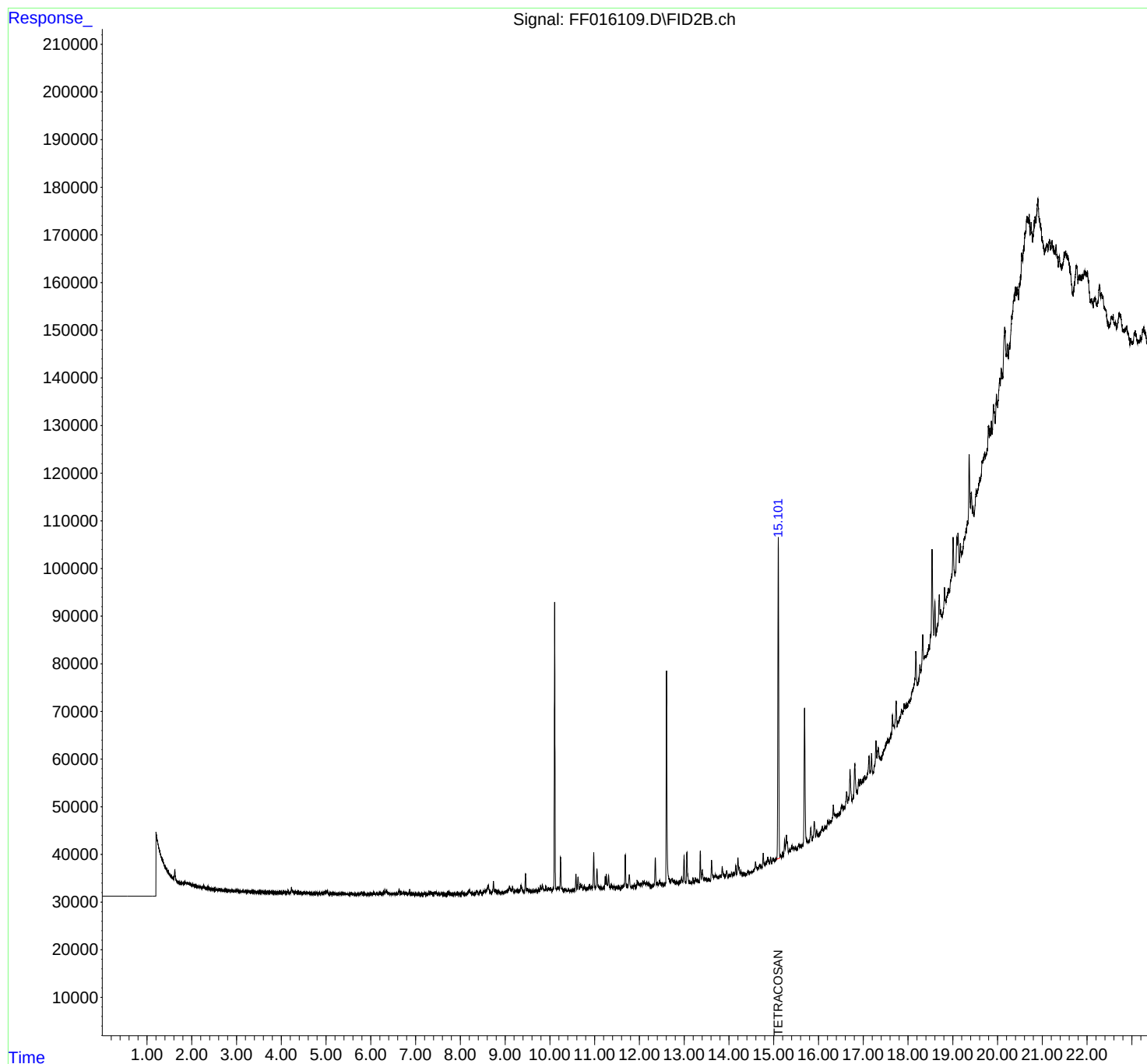
Instrument :
FID_F
ClientSampleId :
TP-103

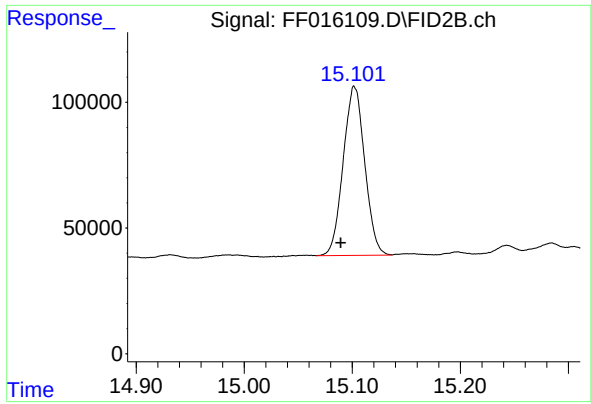
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/09/2025
Supervised By :mohammad ahmed 07/10/2025

Integration File: autoint1.e
Quant Time: Jul 09 02:39:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.101 min
Delta R.T.: 0.012 min
Response: 931108
Conc: 7.71 ug/ml

Instrument :
FID_F
ClientSampleId :
TP-103

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/09/2025
Supervised By :mohammad ahmed 07/10/2025

rteres

Instrument :

FID_F

ClientSampleId :

TP-103

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/09/2025

Supervised By :mohammad ahmed 07/10/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF07082
Data File : FF016109.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 18:54
Sample : Q2514-06
Misc :
ALS Vial : 78 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.677	4.673	4.709	PH	-247	-7396	-0.49%	-0.023%
2	4.722	4.709	4.729	PH	-350	-4586	-0.30%	-0.014%
3	4.750	4.729	4.763	PH	-286	-6959	-0.46%	-0.021%
4	4.781	4.763	4.815	PH	-96	-8746	-0.58%	-0.027%
5	4.818	4.815	4.826	PH	-352	-2618	-0.17%	-0.008%
6	4.848	4.826	4.872	PH	-187	-7923	-0.52%	-0.024%
7	4.876	4.872	4.897	PH	-345	-5154	-0.34%	-0.016%
8	4.979	4.897	4.990	PH	-62	-11658	-0.77%	-0.036%
9	4.999	4.990	5.005	PH	30	-436	-0.03%	-0.001%
10	5.023	5.005	5.067	PH	107	-4600	-0.30%	-0.014%
11	5.075	5.067	5.088	PH	-315	-4435	-0.29%	-0.014%
12	5.092	5.088	5.100	PH	-349	-2620	-0.17%	-0.008%
13	5.114	5.100	5.127	PH	-315	-5647	-0.37%	-0.017%
14	5.135	5.127	5.152	PH	-323	-5471	-0.36%	-0.017%
15	5.172	5.152	5.194	PH	-368	-10362	-0.68%	-0.032%
16	5.196	5.194	5.214	PH	-363	-4919	-0.32%	-0.015%
17	5.227	5.214	5.241	PH	-381	-6742	-0.44%	-0.021%
18	5.276	5.241	5.297	PH	-264	-12786	-0.84%	-0.039%
19	5.319	5.297	5.332	PH	-389	-9168	-0.60%	-0.028%
20	5.345	5.332	5.365	PH	-280	-6481	-0.43%	-0.020%
21	5.372	5.365	5.389	PH	-317	-5586	-0.37%	-0.017%
22	5.394	5.389	5.450	PH	-387	-15273	-1.01%	-0.047%
23	5.465	5.450	5.481	PH	-432	-9150	-0.60%	-0.028%
24	5.486	5.481	5.489	PH	-492	-2409	-0.16%	-0.007%
25	5.497	5.489	5.524	PH	-410	-10075	-0.66%	-0.031%
26	5.529	5.524	5.536	PH	-457	-3534	-0.23%	-0.011%
27	5.562	5.536	5.582	PH	-145	-10853	-0.72%	-0.033%
28	5.597	5.582	5.626	PH	-377	-12511	-0.82%	-0.038%
29	5.629	5.626	5.647	PH	-476	-6634	-0.44%	-0.020%
30	5.654	5.647	5.662	PH	-465	-4739	-0.31%	-0.015%
31	5.669	5.662	5.682	PH	-496	-6395	-0.42%	-0.020%
32	5.689	5.682	5.696	PH	-428	-3857	-0.25%	-0.012%
33	5.700	5.696	5.704	PH	-473	-2460	-0.16%	-0.008%
34	5.705	5.704	5.727	PH	-441	-7565	-0.50%	-0.023%
35	5.735	5.727	5.747	PH	-539	-6577	-0.43%	-0.020%
36	5.791	5.747	5.824	PH	13	-17693	-1.17%	-0.054%

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37	5.842	5.824	5.899	PH	-67	-18202	-1.20%	-0.056%
38	5.915	5.899	5.922	PH	-482	-7289	-0.08%	-0.002%
39	5.927	5.922	5.932	PH	-502	-3056	-0.08%	-0.002%
40	5.954	5.932	5.969	PH	-426	-10639	-0.07%	-0.002%
41	5.985	5.969	6.015	PH	-415	-13258	-0.07%	-0.002%
42	6.033	6.015	6.054	PH	-354	-9924	-0.06%	-0.002%
43	6.076	6.054	6.098	PH	-129	-8856	-0.58%	-0.027%
44	6.126	6.098	6.160	PH	-124	-15277	-1.01%	-0.047%
45	6.191	6.160	6.217	PH	-290	-14377	-0.95%	-0.044%
46	6.226	6.217	6.250	PH	-341	-8023	-0.53%	-0.025%
47	6.270	6.250	6.275	PH	-357	-5660	-0.37%	-0.017%
48	6.294	6.275	6.315	PH	274	-2958	-0.19%	-0.009%
49	6.334	6.315	6.347	PH	346	-99	-0.01%	-0.000%
50	6.359	6.347	6.394	PH	39	-4547	-0.30%	-0.014%
51	6.402	6.394	6.429	PH	-157	-7060	-0.47%	-0.022%
52	6.434	6.429	6.444	PH	-373	-3794	-0.25%	-0.012%
53	6.449	6.444	6.462	PH	-400	-4977	-0.33%	-0.015%
54	6.485	6.462	6.493	PH	-387	-7809	-0.51%	-0.024%
55	6.506	6.493	6.526	PH	-294	-7629	-0.50%	-0.023%
56	6.530	6.526	6.536	PH	-411	-2684	-0.18%	-0.008%
57	6.540	6.536	6.554	PH	-439	-4983	-0.33%	-0.015%
58	6.561	6.554	6.574	PH	-450	-5720	-0.38%	-0.018%
59	6.597	6.574	6.602	PH	-340	-6855	-0.45%	-0.021%
60	6.631	6.602	6.656	PH	600	-1077	-0.07%	-0.003%
61	6.682	6.656	6.697	PH	-281	-8570	-0.56%	-0.026%
62	6.722	6.697	6.780	PH	-83	-13600	-0.90%	-0.042%
63	6.795	6.780	6.821	PH	-204	-7328	-0.48%	-0.022%
64	6.827	6.821	6.852	PH	-391	-7728	-0.51%	-0.024%
65	6.868	6.852	6.901	PH	539	-3622	-0.24%	-0.011%
66	6.908	6.901	6.944	PH	-399	-11680	-0.77%	-0.036%
67	6.949	6.944	6.969	PH	-419	-7359	-0.48%	-0.023%
68	6.974	6.969	6.981	PH	-515	-3679	-0.24%	-0.011%
69	6.999	6.981	7.018	PH	-428	-11236	-0.74%	-0.034%
70	7.047	7.018	7.059	PH	-477	-13156	-0.87%	-0.040%
71	7.077	7.059	7.095	PH	-425	-10394	-0.68%	-0.032%
72	7.127	7.095	7.132	PH	-502	-12226	-0.81%	-0.038%
73	7.138	7.132	7.152	PH	-504	-6818	-0.45%	-0.021%
74	7.177	7.152	7.186	PH	-471	-11026	-0.73%	-0.034%
75	7.203	7.186	7.223	PH	-245	-9467	-0.62%	-0.029%
76	7.229	7.223	7.232	PH	-488	-2849	-0.19%	-0.009%
77	7.249	7.232	7.273	PH	-419	-11641	-0.77%	-0.036%
78	7.298	7.273	7.311	PH	-145	-6918	-0.46%	-0.021%
79	7.332	7.311	7.354	PH	-112	-6830	-0.45%	-0.021%
80	7.375	7.354	7.393	PH	-190	-9699	-0.64%	-0.030%
81	7.397	7.393	7.403	PH	-520	-3003	-0.20%	-0.009%
82	7.434	7.403	7.449	PH	95	-7995	-0.53%	-0.025%
83	7.463	7.449	7.503	PH	26	-11529	-0.76%	-0.035%
84	7.516	7.503	7.554	PH	-337	-14320	-0.94%	-0.044%
85	7.573	7.554	7.598	PH	-128	-10981	-0.72%	-0.034%
86	7.615	7.598	7.630	PH	-364	-9166	-0.60%	-0.028%
87	7.636	7.630	7.650	PH	-492	-6524	-0.43%	-0.020%
88	7.653	7.650	7.657	PH	-552	-2704	-0.18%	-0.008%
89	7.672	7.657	7.682	PH	-488	-8267	-0.54%	-0.025%

Instrument :

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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/09/2025

Supervised By :mohammad ahmed 07/10/2025

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90	7.686	7.682	7.704	PH	-522	-6935	-0.46%	-0.021%
91	7.726	7.704	7.738	PH	-140	-6149		
92	7.745	7.738	7.765	PH	-126	-5053		
93	7.779	7.765	7.784	PH	-388	-5310		
94	7.788	7.784	7.794	PH	-460	-2606		
95	7.806	7.794	7.824	PH	-412	-8820		
96	7.829	7.824	7.846	PH	-500	-7068	-0.47%	-0.022%
97	7.851	7.846	7.859	PH	-539	-4416	-0.29%	-0.014%
98	7.874	7.859	7.887	PH	-457	-8422	-0.55%	-0.026%
99	7.890	7.887	7.897	PH	-532	-3265	-0.22%	-0.010%
100	7.923	7.897	7.953	PH	-324	-14699	-0.97%	-0.045%
101	7.960	7.953	8.001	PH	-379	-14823	-0.98%	-0.045%
102	8.005	8.001	8.008	PH	-538	-2313	-0.15%	-0.007%
103	8.035	8.008	8.054	PH	98	-7555	-0.50%	-0.023%
104	8.063	8.054	8.077	PH	-326	-5571	-0.37%	-0.017%
105	8.090	8.077	8.107	PH	-422	-8640	-0.57%	-0.027%
106	8.117	8.107	8.124	PH	-444	-4715	-0.31%	-0.014%
107	8.143	8.124	8.153	PH	-419	-8189	-0.54%	-0.025%
108	8.173	8.153	8.190	PH	149	-1901	-0.13%	-0.006%
109	8.204	8.190	8.224	PH	449	2351	0.15%	0.007%
110	8.230	8.224	8.255	PH	-59	-4462	-0.29%	-0.014%
111	8.266	8.255	8.310	PH	-288	-13754	-0.91%	-0.042%
112	8.321	8.310	8.329	PH	-140	-3521	-0.23%	-0.011%
113	8.333	8.329	8.339	PH	-241	-1554	-0.10%	-0.005%
114	8.361	8.339	8.376	PH	196	-1386	-0.09%	-0.004%
115	8.383	8.376	8.412	PH	-47	-5284	-0.35%	-0.016%
116	8.451	8.412	8.492	PH	94	-9226	-0.61%	-0.028%
117	8.517	8.492	8.544	PH	138	-1717	-0.11%	-0.005%
118	8.554	8.544	8.569	PH	273	1768	0.12%	0.005%
119	8.627	8.569	8.700	PH	1371	27166	1.79%	0.083%
120	8.740	8.700	8.777	PH	2228	25703	1.69%	0.079%
121	8.793	8.777	8.809	PH	479	2735	0.18%	0.008%
122	8.819	8.809	8.833	PH	8	-1118	-0.07%	-0.003%
123	8.857	8.833	8.887	PH	181	-2607	-0.17%	-0.008%
124	8.905	8.887	8.916	PH	-156	-3789	-0.25%	-0.012%
125	8.924	8.916	8.929	PH	-117	-1324	-0.09%	-0.004%
126	8.955	8.929	8.966	PH	-96	-3364	-0.22%	-0.010%
127	8.995	8.966	9.014	PH	80	-962	-0.06%	-0.003%
128	9.018	9.014	9.020	HH	157	416	0.03%	0.001%
129	9.029	9.020	9.052	HH	278	3233	0.21%	0.010%
130	9.100	9.052	9.146	HH	1158	27385	1.80%	0.084%
131	9.166	9.146	9.196	HH	1046	13313	0.88%	0.041%
132	9.239	9.196	9.262	PH	416	6222	0.41%	0.019%
133	9.278	9.262	9.302	HH	407	4507	0.30%	0.014%
134	9.314	9.302	9.330	PH	186	2176	0.14%	0.007%
135	9.356	9.330	9.417	HH	1480	27522	1.81%	0.084%
136	9.456	9.417	9.479	HH	3818	46591	3.07%	0.143%
137	9.492	9.479	9.528	HH	732	10430	0.69%	0.032%
138	9.549	9.528	9.577	HH	324	4385	0.29%	0.013%
139	9.607	9.577	9.626	PH	320	3433	0.23%	0.011%
140	9.642	9.626	9.677	PH	390	5417	0.36%	0.017%
141	9.691	9.677	9.725	HH	570	7130	0.47%	0.022%

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Manual IntegrationsAPPROVED

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Supervised By :mohammad ahmed 07/10/2025

142	9.747	9.725	9.771	HH	541	7949	0.52%	0.024%
143	9.790	9.771	9.816	HH	1351	19725		
144	9.833	9.816	9.865	HH	1404	25717		
145	9.875	9.865	9.887	HH	393	4558		
146	9.912	9.887	9.942	HH	954	20611		
147	9.966	9.942	10.004	HH	841	20625		
148	10.017	10.004	10.051	HH	863	13706	0.90%	0.042%
149	10.106	10.051	10.137	HH	60762	628362	41.41%	1.928%
150	10.173	10.137	10.187	HH	792	21051	1.39%	0.065%
151	10.194	10.187	10.209	HH	764	9108	0.60%	0.028%
152	10.238	10.209	10.289	HH	7271	98633	6.50%	0.303%
153	10.344	10.289	10.397	HH	634	21795	1.44%	0.067%
154	10.413	10.397	10.443	HH	521	9045	0.60%	0.028%
155	10.457	10.443	10.492	HH	309	7498	0.49%	0.023%
156	10.516	10.492	10.529	HH	394	7064	0.47%	0.022%
157	10.581	10.529	10.606	HH	3741	55097	3.63%	0.169%
158	10.628	10.606	10.653	HH	3054	47862	3.15%	0.147%
159	10.680	10.653	10.699	HH	1575	30871	2.03%	0.095%
160	10.715	10.699	10.739	HH	1393	24114	1.59%	0.074%
161	10.772	10.739	10.806	HH	1114	32020	2.11%	0.098%
162	10.832	10.806	10.861	HH	809	23472	1.55%	0.072%
163	10.885	10.861	10.915	HH	1475	33214	2.19%	0.102%
164	10.931	10.915	10.943	HH	1001	14871	0.98%	0.046%
165	10.979	10.943	11.020	HH	8251	124917	8.23%	0.383%
166	11.051	11.020	11.127	HH	4857	116338	7.67%	0.357%
167	11.147	11.127	11.178	HH	1150	24787	1.63%	0.076%
168	11.201	11.178	11.213	HH	891	16228	1.07%	0.050%
169	11.235	11.213	11.247	HH	3208	40200	2.65%	0.123%
170	11.259	11.247	11.287	HH	3763	58282	3.84%	0.179%
171	11.311	11.287	11.344	HH	3395	64384	4.24%	0.198%
172	11.374	11.344	11.417	HH	1550	48692	3.21%	0.149%
173	11.433	11.417	11.472	HH	1217	30311	2.00%	0.093%
174	11.490	11.472	11.512	HH	1176	21620	1.42%	0.066%
175	11.524	11.512	11.541	HH	1021	15943	1.05%	0.049%
176	11.547	11.541	11.566	HH	1042	12920	0.85%	0.040%
177	11.684	11.566	11.746	HH	7780	191255	12.60%	0.587%
178	11.774	11.746	11.818	HH	3618	84343	5.56%	0.259%
179	11.842	11.818	11.859	HH	1238	25191	1.66%	0.077%
180	11.883	11.859	11.909	HH	1450	34340	2.26%	0.105%
181	11.950	11.909	11.974	HH	2315	60263	3.97%	0.185%
182	11.983	11.974	12.016	HH	1839	39666	2.61%	0.122%
183	12.039	12.016	12.056	HH	1933	37467	2.47%	0.115%
184	12.075	12.056	12.091	HH	2335	38081	2.51%	0.117%
185	12.106	12.091	12.127	HH	2070	40815	2.69%	0.125%
186	12.137	12.127	12.147	HH	1778	20123	1.33%	0.062%
187	12.163	12.147	12.181	HH	2152	35941	2.37%	0.110%
188	12.190	12.181	12.206	HH	1805	24009	1.58%	0.074%
189	12.221	12.206	12.266	HH	1769	48284	3.18%	0.148%
190	12.295	12.266	12.311	HH	1257	31112	2.05%	0.095%
191	12.355	12.311	12.385	HH	7229	135692	8.94%	0.416%
192	12.400	12.385	12.424	HH	1933	37845	2.49%	0.116%
193	12.451	12.424	12.501	HH	2299	82300	5.42%	0.252%
194	12.512	12.501	12.531	HH	1787	28573	1.88%	0.088%

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Supervised By :mohammad ahmed 07/10/2025

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195	12.547	12.531	12.556	HH	1532	21961	1.45%	0.067%	
196	12.606	12.556	12.678	HH	46276	680688			
197	12.691	12.678	12.707	HH	2339	38320			
198	12.724	12.707	12.757	HH	2787	71393			
199	12.769	12.757	12.816	HH	2346	72002			
200	12.832	12.816	12.872	HH	2200	64219			
201	12.894	12.872	12.907	HH	2239	41187	2.71%	0.126%	
202	12.942	12.907	12.962	HH	3143	79560	5.24%	0.244%	
203	12.998	12.962	13.039	HH	7534	161455	10.64%	0.495%	
204	13.061	13.039	13.107	HH	8339	165360	10.90%	0.507%	
205	13.118	13.107	13.135	HH	2003	31753	2.09%	0.097%	
206	13.161	13.135	13.177	HH	2021	48698	3.21%	0.149%	
207	13.197	13.177	13.229	HH	2901	71983	4.74%	0.221%	
208	13.252	13.229	13.277	HH	2926	71160	4.69%	0.218%	
209	13.307	13.277	13.335	HH	2452	79177	5.22%	0.243%	
210	13.360	13.335	13.381	HH	8662	130760	8.62%	0.401%	
211	13.402	13.381	13.433	HH	4513	111421	7.34%	0.342%	
212	13.450	13.433	13.477	HH	2961	70307	4.63%	0.216%	
213	13.491	13.477	13.516	HH	2780	59483	3.92%	0.182%	
214	13.548	13.516	13.582	HH	2732	100722	6.64%	0.309%	
215	13.612	13.582	13.652	HH	6655	164797	10.86%	0.506%	
216	13.665	13.652	13.676	HH	3322	44543	2.94%	0.137%	
217	13.694	13.676	13.747	HH	3673	139320	9.18%	0.427%	
218	13.754	13.747	13.772	HH	2969	44894	2.96%	0.138%	
219	13.797	13.772	13.809	HH	3352	70344	4.64%	0.216%	
220	13.849	13.809	13.907	HH	5286	220603	14.54%	0.677%	
221	13.950	13.907	13.977	HH	4441	153364	10.11%	0.471%	
222	14.001	13.977	14.017	HH	3570	81527	5.37%	0.250%	
223	14.021	14.017	14.037	HH	3521	39991	2.64%	0.123%	
224	14.060	14.037	14.079	HH	4073	93717	6.18%	0.288%	
225	14.100	14.079	14.117	HH	4061	84940	5.60%	0.261%	
226	14.151	14.117	14.174	HH	5544	146821	9.68%	0.450%	
227	14.200	14.174	14.249	HH	7188	227347	14.98%	0.697%	
228	14.267	14.249	14.287	HH	4460	92153	6.07%	0.283%	
229	14.319	14.287	14.332	HH	3825	100404	6.62%	0.308%	
230	14.345	14.332	14.366	HH	3808	74863	4.93%	0.230%	
231	14.429	14.366	14.452	HH	4245	205010	13.51%	0.629%	
232	14.495	14.452	14.517	HH	4290	161408	10.64%	0.495%	
233	14.593	14.517	14.641	HH	6336	363639	23.96%	1.116%	
234	14.687	14.641	14.703	HH	5757	194270	12.80%	0.596%	
235	14.714	14.703	14.737	HH	5434	106045	6.99%	0.325%	
236	14.765	14.737	14.806	HH	8096	258408	17.03%	0.793%	
237	14.830	14.806	14.842	HH	6276	129906	8.56%	0.399%	
238	14.867	14.842	14.908	HH	7212	262704	17.31%	0.806%	
239	14.932	14.908	14.957	HH	7259	190528	12.56%	0.585%	
240	14.985	14.957	15.019	HH	7165	246696	16.26%	0.757%	
241	15.057	15.019	15.067	HH	7039	197338	13.00%	0.605%	
242	15.102	15.067	15.137	HH	73911	1225013	80.72%	3.758%	
243	15.153	15.137	15.176	HH	7617	171945	11.33%	0.528%	
244	15.197	15.176	15.214	HH	8372	178973	11.79%	0.549%	
245	15.243	15.214	15.258	HH	10983	244681	16.12%	0.751%	
246	15.284	15.258	15.328	HH	11918	417604	27.52%	1.281%	

Instrument :

FID_F

ClientSampleId :

TP-103

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/09/2025

Supervised By :mohammad ahmed 07/10/2025

rteres									
247	15.350	15.328	15.367	HH	8883	205029	13.51%	0.629%	
248	15.402	15.367	15.432	HH	9638	350241	23.51%	0.629%	
249	15.450	15.432	15.469	HH	9503	206330	13.51%	0.629%	
250	15.496	15.469	15.521	HH	9316	281311	18.51%	0.629%	
251	15.562	15.521	15.582	HH	9816	346234	22.51%	0.629%	
252	15.599	15.582	15.610	HH	9641	163378	10.51%	0.629%	
253	15.620	15.610	15.632	HH	9758	128729	8.48%	0.395%	
254	15.689	15.632	15.757	HH	38504	1189330	78.37%	3.649%	
255	15.763	15.757	15.774	HH	10546	110519	7.28%	0.339%	
256	15.828	15.774	15.858	HH	13493	584098	38.49%	1.792%	
257	15.906	15.858	15.938	HH	14810	602537	39.71%	1.849%	
258	15.960	15.938	15.999	HH	12792	438090	28.87%	1.344%	
259	16.022	15.999	16.031	HH	12130	230960	15.22%	0.709%	
260	16.086	16.031	16.109	HH	13607	605454	39.90%	1.857%	
261	16.150	16.109	16.172	HH	13736	508044	33.48%	1.559%	
262	16.210	16.172	16.234	HH	14938	523509	34.50%	1.606%	
263	16.253	16.234	16.267	HH	14872	294766	19.42%	0.904%	
264	16.333	16.267	16.362	HH	18110	900413	59.33%	2.762%	
265	16.370	16.362	16.382	HH	16206	199484	13.15%	0.612%	
266	16.396	16.382	16.417	HH	16245	337321	22.23%	1.035%	
267	16.434	16.417	16.445	HH	16367	271038	17.86%	0.832%	
268	16.468	16.445	16.486	HH	16446	395094	26.04%	1.212%	
269	16.522	16.486	16.545	HH	18188	623622	41.09%	1.913%	
270	16.557	16.545	16.571	HH	17521	268617	17.70%	0.824%	
271	16.630	16.571	16.652	HH	20914	927506	61.12%	2.846%	
272	16.672	16.652	16.680	HH	19816	320712	21.13%	0.984%	
273	16.705	16.680	16.752	HH	25703	938313	61.83%	2.879%	
274	16.810	16.752	16.868	HH	26761	1517525	100.00%	4.656%	
275	16.899	16.868	16.916	HH	23648	642639	42.35%	1.972%	
276	16.937	16.916	16.960	HH	23632	609619	40.17%	1.870%	
277	16.995	16.960	17.007	HH	23634	658808	43.41%	2.021%	
278	17.034	17.007	17.052	HH	24308	642440	42.33%	1.971%	
279	17.129	17.052	17.149	HH	28407	1472067	97.00%	4.516%	
280	17.185	17.149	17.226	HH	28996	1199664	79.05%	3.680%	
281	17.284	17.226	17.303	HH	31732	1298920	85.59%	3.985%	
282	17.334	17.303	17.386	HH	30176	1426155	93.98%	4.375%	
283	17.406	17.386	17.419	HH	28323	562386	37.06%	1.725%	
Sum of corrected areas:						32595470			

Instrument :
FID_F
ClientSampleId :
TP-103

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/09/2025
Supervised By :mohammad ahmed 07/10/2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-36	SDG No.:	Q2514
Lab Sample ID:	Q2514-07	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	90.3
Sample Wt/Vol:	30.06	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
FG016257.D	1	07/08/25 08:35	07/08/25 21:23	PB168751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2080		187	1840	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	8.92		37 - 130	45%	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\FG070825\
Data File : FG016257.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 21:23
Operator : YP\AJ
Sample : Q2514-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-36

Integration File: Sample.e
Quant Time: Jul 09 03:16:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.200	1046544	8.922 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

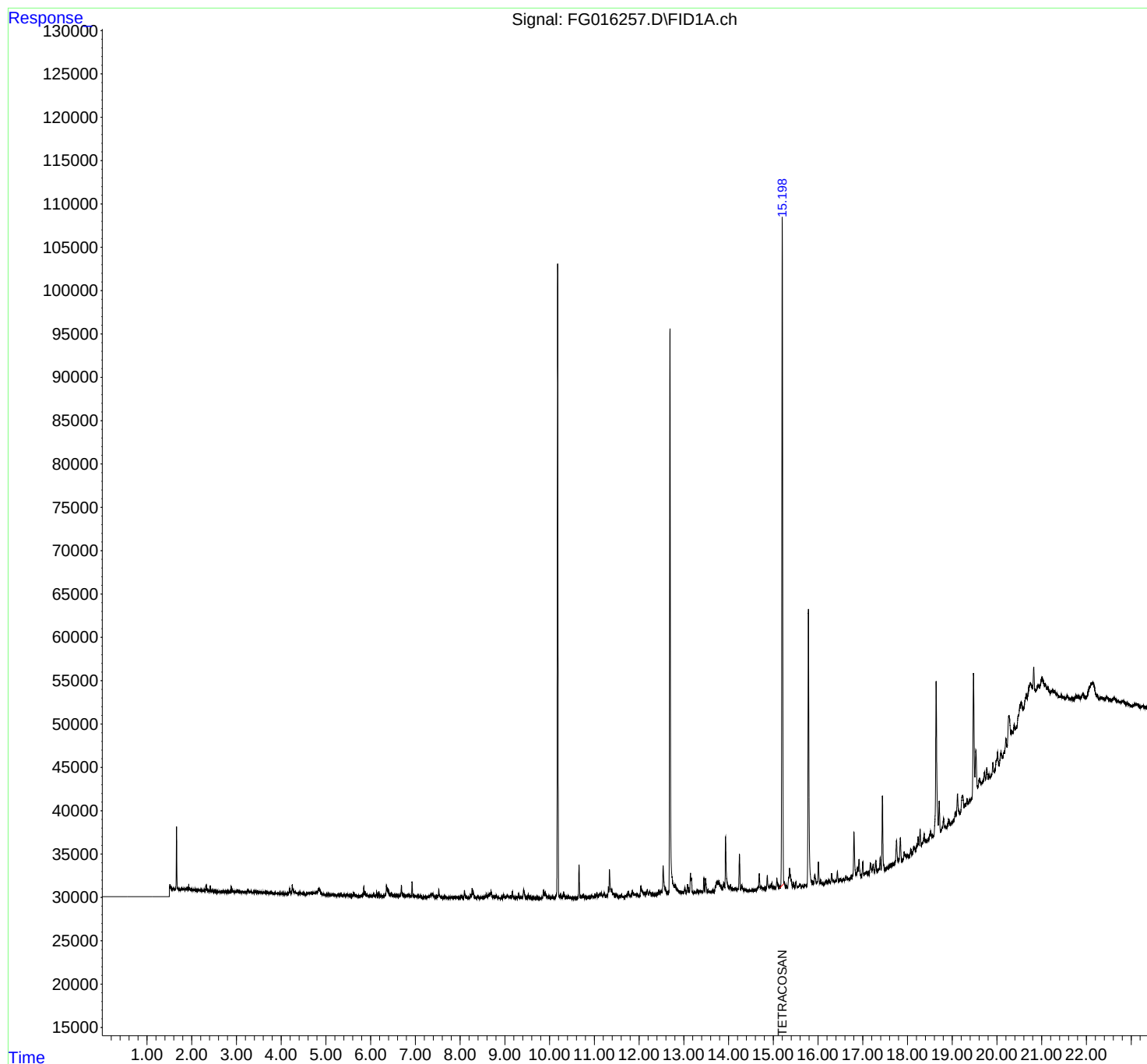
(m)=manual int.

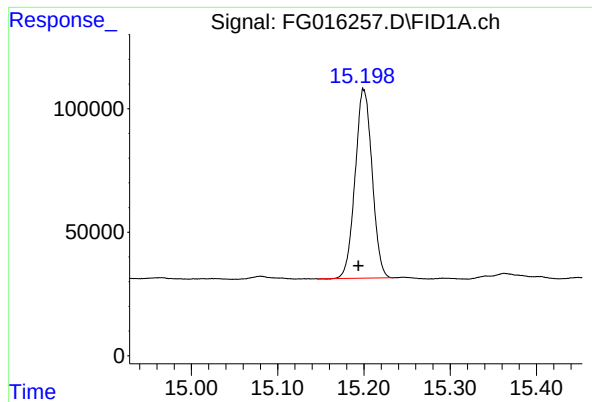
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016257.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 21:23
Operator : YP\AJ
Sample : Q2514-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-36

Integration File: Sample.e
Quant Time: Jul 09 03:16:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.200 min
Delta R.T.: 0.006 min
Response: 1046544
Conc: 8.92 ug/ml

Instrument :
FID_G
ClientSampleId :
TP-36

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016257.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 21:23
Sample : Q2514-07
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.367	4.363	4.374	VV	410	2390	0.22%	0.028%
2	4.388	4.374	4.393	VV	398	4092	0.37%	0.049%
3	4.402	4.393	4.419	VV	482	7034	0.64%	0.084%
4	4.422	4.419	4.427	VV	449	1872	0.17%	0.022%
5	4.430	4.427	4.463	VV	529	8680	0.78%	0.103%
6	4.471	4.463	4.483	VV	410	4112	0.37%	0.049%
7	4.489	4.483	4.507	VH	412	4992	0.45%	0.059%
8	4.510	4.507	4.526	HH	336	3481	0.31%	0.041%
9	4.530	4.526	4.543	HH	321	2856	0.26%	0.034%
10	4.551	4.543	4.564	HH	347	3736	0.34%	0.044%
11	4.586	4.564	4.591	HH	452	5707	0.52%	0.068%
12	4.596	4.591	4.619	HH	401	5943	0.54%	0.071%
13	4.629	4.619	4.640	HH	440	5092	0.46%	0.061%
14	4.647	4.640	4.654	HH	430	2998	0.27%	0.036%
15	4.669	4.654	4.694	HH	595	10310	0.93%	0.123%
16	4.709	4.694	4.727	HH	457	7826	0.71%	0.093%
17	4.795	4.727	4.805	HH	545	19750	1.78%	0.235%
18	4.839	4.805	4.858	HH	945	21773	1.97%	0.259%
19	4.861	4.858	4.890	HH	801	11155	1.01%	0.133%
20	4.894	4.890	4.915	HH	424	4847	0.44%	0.058%
21	4.921	4.915	4.951	HH	298	5722	0.52%	0.068%
22	4.957	4.951	4.963	HH	301	1872	0.17%	0.022%
23	4.968	4.963	4.978	HH	262	1970	0.18%	0.023%
24	4.985	4.978	4.995	HH	230	2210	0.20%	0.026%
25	4.998	4.995	5.012	HH	252	1992	0.18%	0.024%
26	5.019	5.012	5.030	HH	251	2165	0.20%	0.026%
27	5.036	5.030	5.045	HH	247	2221	0.20%	0.026%
28	5.047	5.045	5.059	HH	303	2004	0.18%	0.024%
29	5.065	5.059	5.079	HH	232	2363	0.21%	0.028%
30	5.085	5.079	5.118	HH	226	4432	0.40%	0.053%
31	5.125	5.118	5.143	HH	234	2524	0.23%	0.030%
32	5.162	5.143	5.167	HH	240	2567	0.23%	0.031%
33	5.172	5.167	5.183	HH	192	1702	0.15%	0.020%
34	5.197	5.183	5.215	HH	333	4291	0.39%	0.051%
35	5.228	5.215	5.251	HH	207	2594	0.23%	0.031%
36	5.258	5.251	5.267	HH	186	1343	0.12%	0.016%

					rteres			
37	5.272	5.267	5.292	HH	154	2038	0.18%	0.024%
38	5.307	5.292	5.310	HH	208	1807	0.16%	0.021%
39	5.315	5.310	5.321	HH	206	1149	0.10%	0.014%
40	5.326	5.321	5.369	HH	305	4585	0.41%	0.055%
41	5.381	5.369	5.394	HH	198	2176	0.20%	0.026%
42	5.400	5.394	5.409	HH	184	1417	0.13%	0.017%
43	5.423	5.409	5.429	HH	249	2163	0.20%	0.026%
44	5.430	5.429	5.469	HH	241	3007	0.27%	0.036%
45	5.489	5.469	5.519	HH	238	4741	0.43%	0.056%
46	5.526	5.519	5.556	HH	184	1948	0.18%	0.023%
47	5.562	5.556	5.567	HH	104	523	0.05%	0.006%
48	5.589	5.567	5.594	HH	124	1538	0.14%	0.018%
49	5.618	5.594	5.639	HH	467	5809	0.52%	0.069%
50	5.650	5.639	5.679	HH	237	2604	0.24%	0.031%
51	5.686	5.679	5.697	HH	120	1104	0.10%	0.013%
52	5.702	5.697	5.743	HH	121	1968	0.18%	0.023%
53	5.754	5.743	5.768	HH	145	1315	0.12%	0.016%
54	5.776	5.768	5.779	HH	89	378	0.03%	0.004%
55	5.784	5.779	5.799	HH	78	735	0.07%	0.009%
56	5.816	5.799	5.827	HH	169	1660	0.15%	0.020%
57	5.848	5.827	5.864	HH	1191	12237	1.11%	0.146%
58	5.875	5.864	5.903	HH	627	7173	0.65%	0.085%
59	5.917	5.903	5.941	HH	326	3874	0.35%	0.046%
60	5.959	5.941	6.024	HH	141	4022	0.36%	0.048%
61	6.067	6.024	6.105	HH	343	6234	0.56%	0.074%
62	6.107	6.105	6.112	HH	146	295	0.03%	0.004%
63	6.133	6.112	6.153	HH	519	5559	0.50%	0.066%
64	6.182	6.153	6.207	HH	586	6664	0.60%	0.079%
65	6.213	6.207	6.219	HH	102	388	0.04%	0.005%
66	6.225	6.219	6.232	HH	98	372	0.03%	0.004%
67	6.256	6.232	6.282	HH	134	1412	0.13%	0.017%
68	6.286	6.282	6.289	HH	92	221	0.02%	0.003%
69	6.293	6.289	6.301	HH	91	470	0.04%	0.006%
70	6.328	6.301	6.335	PH	246	2293	0.21%	0.027%
71	6.354	6.335	6.380	HH	1220	20476	1.85%	0.243%
72	6.392	6.380	6.428	HH	827	14720	1.33%	0.175%
73	6.432	6.428	6.439	HH	164	1051	0.09%	0.012%
74	6.443	6.439	6.447	HH	169	829	0.07%	0.010%
75	6.465	6.447	6.505	HH	472	7714	0.70%	0.092%
76	6.510	6.505	6.527	HH	162	1169	0.11%	0.014%
77	6.534	6.527	6.548	HH	93	959	0.09%	0.011%
78	6.566	6.548	6.574	HH	150	1641	0.15%	0.020%
79	6.585	6.574	6.607	HH	165	1744	0.16%	0.021%
80	6.613	6.607	6.626	PH	81	635	0.06%	0.008%
81	6.633	6.626	6.652	HH	107	1219	0.11%	0.014%
82	6.656	6.652	6.662	HH	112	454	0.04%	0.005%
83	6.688	6.662	6.729	HH	1263	18640	1.68%	0.222%
84	6.738	6.729	6.761	HH	162	1884	0.17%	0.022%
85	6.769	6.761	6.785	PH	157	1382	0.12%	0.016%
86	6.813	6.785	6.823	HH	211	2924	0.26%	0.035%
87	6.853	6.823	6.891	HH	238	4968	0.45%	0.059%
88	6.925	6.891	6.961	HH	1700	17870	1.61%	0.213%
89	6.966	6.961	6.972	HH	80	309	0.03%	0.004%

					rteres			
90	6.979	6.972	7.007	PH	67	495	0.04%	0.006%
91	7.012	7.007	7.016	PH	28	86	0.01%	0.001%
92	7.021	7.016	7.041	PH	59	146	0.01%	0.002%
93	7.059	7.041	7.090	PH	98	460	0.04%	0.005%
94	7.096	7.090	7.102	PH	-8	-214	-0.02%	-0.003%
95	7.113	7.102	7.119	PH	53	257	0.02%	0.003%
96	7.123	7.119	7.125	HH	17	58	0.01%	0.001%
97	7.132	7.125	7.153	PH	84	105	0.01%	0.001%
98	7.157	7.153	7.162	PH	-60	-339	-0.03%	-0.004%
99	7.169	7.162	7.173	PH	-45	-563	-0.05%	-0.007%
100	7.179	7.173	7.197	PH	6	-894	-0.08%	-0.011%
101	7.203	7.197	7.217	PH	-28	-946	-0.09%	-0.011%
102	7.222	7.217	7.229	PH	-17	-500	-0.05%	-0.006%
103	7.234	7.229	7.241	PH	-51	-665	-0.06%	-0.008%
104	7.244	7.241	7.258	PH	-68	-1025	-0.09%	-0.012%
105	7.265	7.258	7.295	PH	-39	-1560	-0.14%	-0.019%
106	7.313	7.295	7.331	PH	137	747	0.07%	0.009%
107	7.348	7.331	7.370	PH	271	3440	0.31%	0.041%
108	7.380	7.370	7.453	HH	288	2773	0.25%	0.033%
109	7.458	7.453	7.462	PH	-58	-463	-0.04%	-0.006%
110	7.497	7.462	7.503	PH	82	-1206	-0.11%	-0.014%
111	7.523	7.503	7.582	PH	838	6375	0.58%	0.076%
112	7.588	7.582	7.597	PH	-67	-1004	-0.09%	-0.012%
113	7.638	7.597	7.654	PH	-22	-3216	-0.29%	-0.038%
114	7.670	7.654	7.685	PH	54	-814	-0.07%	-0.010%
115	7.690	7.685	7.701	PH	-43	-858	-0.08%	-0.010%
116	7.710	7.701	7.724	PH	-31	-1540	-0.14%	-0.018%
117	7.732	7.724	7.758	PH	-61	-2600	-0.23%	-0.031%
118	7.764	7.758	7.770	PH	-123	-1100	-0.10%	-0.013%
119	7.801	7.770	7.846	PH	-7	-5420	-0.49%	-0.064%
120	7.867	7.846	7.879	PH	-0	-1833	-0.17%	-0.022%
121	7.887	7.879	7.893	PH	-37	-1005	-0.09%	-0.012%
122	7.896	7.893	7.901	PH	-92	-766	-0.07%	-0.009%
123	7.908	7.901	7.914	PH	-118	-1185	-0.11%	-0.014%
124	7.935	7.914	7.964	PH	3	-2913	-0.26%	-0.035%
125	7.988	7.964	8.008	PH	-82	-3516	-0.32%	-0.042%
126	8.026	8.008	8.049	PH	93	-1798	-0.16%	-0.021%
127	8.097	8.049	8.114	PH	710	3573	0.32%	0.042%
128	8.125	8.114	8.141	PH	82	-688	-0.06%	-0.008%
129	8.155	8.141	8.201	PH	-70	-5133	-0.46%	-0.061%
130	8.208	8.201	8.214	PH	-136	-1163	-0.11%	-0.014%
131	8.233	8.214	8.250	PH	191	1342	0.12%	0.016%
132	8.267	8.250	8.282	HH	940	9626	0.87%	0.114%
133	8.292	8.282	8.325	HH	668	6376	0.58%	0.076%
134	8.342	8.325	8.359	PH	-68	-2476	-0.22%	-0.029%
135	8.404	8.359	8.440	PH	73	-5118	-0.46%	-0.061%
136	8.446	8.440	8.452	PH	-78	-1009	-0.09%	-0.012%
137	8.463	8.452	8.472	PH	-53	-1259	-0.11%	-0.015%
138	8.475	8.472	8.499	PH	-60	-2163	-0.20%	-0.026%
139	8.516	8.499	8.535	PH	15	-1830	-0.17%	-0.022%
140	8.539	8.535	8.555	PH	-145	-1918	-0.17%	-0.023%
141	8.582	8.555	8.604	PH	272	1469	0.13%	0.017%

					rteres			
142	8.626	8.604	8.643	PH	265	1890	0.17%	0.022%
143	8.660	8.643	8.664	HH	345	2515	0.23%	0.030%
144	8.691	8.664	8.731	HH	558	9982	0.90%	0.119%
145	8.750	8.731	8.772	PH	50	-1382	-0.12%	-0.016%
146	8.806	8.772	8.821	PH	157	-396	-0.04%	-0.005%
147	8.826	8.821	8.861	PH	-13	-2108	-0.19%	-0.025%
148	8.868	8.861	8.901	PH	-96	-3760	-0.34%	-0.045%
149	8.925	8.901	8.946	PH	-39	-3380	-0.31%	-0.040%
150	8.970	8.946	8.991	PH	234	586	0.05%	0.007%
151	8.999	8.991	9.011	PH	-43	-925	-0.08%	-0.011%
152	9.018	9.011	9.034	PH	-1	-735	-0.07%	-0.009%
153	9.065	9.034	9.091	PH	137	435	0.04%	0.005%
154	9.096	9.091	9.115	PH	17	-696	-0.06%	-0.008%
155	9.134	9.115	9.147	PH	136	-329	-0.03%	-0.004%
156	9.168	9.147	9.191	PH	582	5183	0.47%	0.062%
157	9.196	9.191	9.229	PH	-61	-1995	-0.18%	-0.024%
158	9.234	9.229	9.250	PH	-15	-1169	-0.11%	-0.014%
159	9.257	9.250	9.263	PH	-17	-572	-0.05%	-0.007%
160	9.303	9.263	9.332	PH	409	-1085	-0.10%	-0.013%
161	9.337	9.332	9.347	PH	-106	-1385	-0.13%	-0.016%
162	9.358	9.347	9.366	PH	-99	-1367	-0.12%	-0.016%
163	9.421	9.366	9.460	PH	818	10759	0.97%	0.128%
164	9.473	9.460	9.507	PH	-95	-4496	-0.41%	-0.053%
165	9.524	9.507	9.552	PH	208	-175	-0.02%	-0.002%
166	9.561	9.552	9.589	PH	-60	-2454	-0.22%	-0.029%
167	9.596	9.589	9.621	PH	-148	-3310	-0.30%	-0.039%
168	9.625	9.621	9.629	PH	-119	-821	-0.07%	-0.010%
169	9.633	9.629	9.653	PH	-128	-2548	-0.23%	-0.030%
170	9.658	9.653	9.661	PH	-171	-1091	-0.10%	-0.013%
171	9.675	9.661	9.680	PH	-107	-1977	-0.18%	-0.024%
172	9.699	9.680	9.703	PH	-123	-2614	-0.24%	-0.031%
173	9.711	9.703	9.752	PH	-54	-3966	-0.36%	-0.047%
174	9.766	9.752	9.785	PH	-118	-3314	-0.30%	-0.039%
175	9.826	9.785	9.835	PH	-66	-4956	-0.45%	-0.059%
176	9.861	9.835	9.889	PH	702	8241	0.74%	0.098%
177	9.907	9.889	9.932	HH	395	5052	0.46%	0.060%
178	9.949	9.932	9.972	PH	30	-534	-0.05%	-0.006%
179	9.987	9.972	10.005	PH	81	-423	-0.04%	-0.005%
180	10.016	10.005	10.029	PH	-96	-1773	-0.16%	-0.021%
181	10.033	10.029	10.037	PH	-70	-462	-0.04%	-0.005%
182	10.039	10.037	10.082	PH	-62	-2677	-0.24%	-0.032%
183	10.089	10.082	10.094	PH	-73	-758	-0.07%	-0.009%
184	10.098	10.094	10.111	PH	-108	-1742	-0.16%	-0.021%
185	10.180	10.111	10.220	PH	73042	736427	66.50%	8.757%
186	10.244	10.220	10.276	PH	174	120	0.01%	0.001%
187	10.313	10.276	10.335	PH	539	3263	0.29%	0.039%
188	10.340	10.335	10.363	PH	30	-1242	-0.11%	-0.015%
189	10.368	10.363	10.379	PH	-63	-1165	-0.11%	-0.014%
190	10.384	10.379	10.394	PH	-51	-1071	-0.10%	-0.013%
191	10.399	10.394	10.404	PH	-80	-821	-0.07%	-0.010%
192	10.413	10.404	10.419	PH	151	248	0.02%	0.003%
193	10.421	10.419	10.441	HH	116	-1142	-0.10%	-0.014%
194	10.453	10.441	10.501	PH	-31	-4672	-0.42%	-0.056%

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195	10.518	10.501	10.525	PH	-141	-2933	-0.26%	-0.035%
196	10.536	10.525	10.548	PH	-140	-2496	-0.23%	-0.030%
197	10.561	10.548	10.578	PH	-143	-3405	-0.31%	-0.040%
198	10.582	10.578	10.601	PH	-124	-2656	-0.24%	-0.032%
199	10.620	10.601	10.636	PH	-75	-3248	-0.29%	-0.039%
200	10.658	10.636	10.682	PH	3596	34982	3.16%	0.416%
201	10.704	10.682	10.723	PH	83	-679	-0.06%	-0.008%
202	10.752	10.723	10.770	PH	195	1280	0.12%	0.015%
203	10.776	10.770	10.792	PH	57	-1076	-0.10%	-0.013%
204	10.796	10.792	10.823	PH	-49	-2120	-0.19%	-0.025%
205	10.867	10.823	10.873	PH	-30	-3608	-0.33%	-0.043%
206	10.881	10.873	10.886	PH	-90	-846	-0.08%	-0.010%
207	10.938	10.886	10.943	PH	63	-2005	-0.18%	-0.024%
208	10.948	10.943	10.981	PH	55	-217	-0.02%	-0.003%
209	10.986	10.981	10.992	PH	-27	-359	-0.03%	-0.004%
210	11.010	10.992	11.027	PH	279	1789	0.16%	0.021%
211	11.057	11.027	11.085	PH	507	3696	0.33%	0.044%
212	11.111	11.085	11.117	PH	296	2421	0.22%	0.029%
213	11.129	11.117	11.147	HH	343	4653	0.42%	0.055%
214	11.158	11.147	11.187	HH	488	5211	0.47%	0.062%
215	11.223	11.187	11.254	HH	430	7105	0.64%	0.084%
216	11.284	11.254	11.291	PH	127	1141	0.10%	0.014%
217	11.315	11.291	11.324	HH	1162	11414	1.03%	0.136%
218	11.337	11.324	11.379	HH	3130	49529	4.47%	0.589%
219	11.386	11.379	11.414	HH	786	11340	1.02%	0.135%
220	11.430	11.414	11.477	HH	400	8354	0.75%	0.099%
221	11.487	11.477	11.513	HH	187	2467	0.22%	0.029%
222	11.516	11.513	11.531	HH	91	392	0.04%	0.005%
223	11.544	11.531	11.559	PH	57	-91	-0.01%	-0.001%
224	11.573	11.559	11.585	PH	85	538	0.05%	0.006%
225	11.602	11.585	11.641	PH	230	1276	0.12%	0.015%
226	11.647	11.641	11.657	PH	-24	-595	-0.05%	-0.007%
227	11.696	11.657	11.716	PH	112	59	0.01%	0.001%
228	11.739	11.716	11.746	HH	334	2878	0.26%	0.034%
229	11.764	11.746	11.802	HH	655	9282	0.84%	0.110%
230	11.812	11.802	11.824	HH	142	1134	0.10%	0.013%
231	11.847	11.824	11.895	HH	649	14664	1.32%	0.174%
232	11.900	11.895	11.906	HH	262	1303	0.12%	0.015%
233	11.923	11.906	11.952	HH	346	6421	0.58%	0.076%
234	11.960	11.952	12.001	HH	350	4257	0.38%	0.051%
235	12.004	12.001	12.020	HH	110	1001	0.09%	0.012%
236	12.037	12.020	12.106	PH	1178	33676	3.04%	0.400%
237	12.125	12.106	12.142	HH	487	7452	0.67%	0.089%
238	12.161	12.142	12.167	HH	512	6111	0.55%	0.073%
239	12.185	12.167	12.211	HH	841	12769	1.15%	0.152%
240	12.238	12.211	12.267	HH	575	13589	1.23%	0.162%
241	12.271	12.267	12.276	HH	249	1210	0.11%	0.014%
242	12.278	12.276	12.319	HH	298	6453	0.58%	0.077%
243	12.327	12.319	12.332	HH	250	1549	0.14%	0.018%
244	12.337	12.332	12.355	HH	273	3056	0.28%	0.036%
245	12.372	12.355	12.400	HH	343	6893	0.62%	0.082%
246	12.410	12.400	12.414	HH	303	1936	0.17%	0.023%

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247	12.438	12.414	12.464	HH	760	14117	1.27%	0.168%
248	12.486	12.464	12.492	HH	677	9061	0.82%	0.108%
249	12.498	12.492	12.516	HH	654	7932	0.72%	0.094%
250	12.538	12.516	12.642	HH	3526	88808	8.02%	1.056%
251	12.648	12.642	12.651	HH	486	2119	0.19%	0.025%
252	12.656	12.651	12.662	HH	460	2843	0.26%	0.034%
253	12.691	12.662	12.792	HH	65534	860535	77.71%	10.233%
254	12.804	12.792	12.845	HH	1360	34657	3.13%	0.412%
255	12.854	12.845	12.887	HH	791	17831	1.61%	0.212%
256	12.893	12.887	12.906	HH	613	6582	0.59%	0.078%
257	12.912	12.906	12.966	HH	693	17996	1.63%	0.214%
258	12.971	12.966	12.994	HH	453	7294	0.66%	0.087%
259	13.022	12.994	13.053	HH	1077	24457	2.21%	0.291%
260	13.083	13.053	13.127	HH	1410	34539	3.12%	0.411%
261	13.150	13.127	13.161	HH	2717	34840	3.15%	0.414%
262	13.168	13.161	13.214	HH	2092	33574	3.03%	0.399%
263	13.219	13.214	13.225	HH	492	2648	0.24%	0.031%
264	13.241	13.225	13.262	HH	489	9693	0.88%	0.115%
265	13.285	13.262	13.308	HH	625	14690	1.33%	0.175%
266	13.313	13.308	13.327	HH	624	5961	0.54%	0.071%
267	13.351	13.327	13.356	HH	674	9711	0.88%	0.115%
268	13.360	13.356	13.377	HH	667	7874	0.71%	0.094%
269	13.387	13.377	13.428	HH	656	16952	1.53%	0.202%
270	13.449	13.428	13.467	HH	2169	29398	2.65%	0.350%
271	13.487	13.467	13.528	HH	2101	43070	3.89%	0.512%
272	13.539	13.528	13.569	HH	758	15060	1.36%	0.179%
273	13.586	13.569	13.611	HH	641	14411	1.30%	0.171%
274	13.618	13.611	13.637	HH	618	9085	0.82%	0.108%
275	13.650	13.637	13.678	HH	766	14989	1.35%	0.178%
276	13.707	13.678	13.715	HH	1185	19431	1.75%	0.231%
277	13.737	13.715	13.743	HH	1668	24443	2.21%	0.291%
278	13.747	13.743	13.766	HH	1644	21338	1.93%	0.254%
279	13.780	13.766	13.863	HH	1799	76586	6.92%	0.911%
280	13.893	13.863	13.915	HH	1642	38301	3.46%	0.455%
281	13.933	13.915	14.009	HH	6906	138529	12.51%	1.647%
282	14.041	14.009	14.077	HH	1334	43031	3.89%	0.512%
283	14.104	14.077	14.128	HH	941	26469	2.39%	0.315%
284	14.151	14.128	14.180	HH	1017	26947	2.43%	0.320%
285	14.186	14.180	14.189	HH	819	4252	0.38%	0.051%
286	14.195	14.189	14.205	HH	861	7796	0.70%	0.093%
287	14.244	14.205	14.269	HH	4886	80272	7.25%	0.955%
288	14.293	14.269	14.316	HH	1351	29409	2.66%	0.350%
289	14.318	14.316	14.343	HH	954	13259	1.20%	0.158%
290	14.365	14.343	14.379	HH	855	17049	1.54%	0.203%
291	14.385	14.379	14.397	HH	791	8503	0.77%	0.101%
292	14.402	14.397	14.422	HH	762	10336	0.93%	0.123%
293	14.428	14.422	14.432	HH	690	4163	0.38%	0.050%
294	14.438	14.432	14.445	HH	713	5080	0.46%	0.060%
295	14.451	14.445	14.459	HH	694	5496	0.50%	0.065%
296	14.476	14.459	14.496	HH	749	15177	1.37%	0.180%
297	14.526	14.496	14.548	HH	832	23214	2.10%	0.276%
298	14.554	14.548	14.577	HH	759	12622	1.14%	0.150%
299	14.584	14.577	14.603	HH	760	10906	0.98%	0.130%

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300	14.616	14.603	14.624	HH	790	9413	0.85%	0.112%
301	14.685	14.624	14.722	HH	2656	77791	7.03%	0.925%
302	14.731	14.722	14.754	HH	1145	19207	1.73%	0.228%
303	14.776	14.754	14.782	HH	999	15951	1.44%	0.190%
304	14.784	14.782	14.791	HH	965	4511	0.41%	0.054%
305	14.796	14.791	14.801	HH	892	5485	0.50%	0.065%
306	14.816	14.801	14.827	HH	994	14689	1.33%	0.175%
307	14.832	14.827	14.842	HH	948	7898	0.71%	0.094%
308	14.866	14.842	14.908	HH	2440	57950	5.23%	0.689%
309	14.920	14.908	14.940	HH	1262	22655	2.05%	0.269%
310	14.960	14.940	14.997	HH	1508	42280	3.82%	0.503%
311	15.025	14.997	15.049	HH	1187	32163	2.90%	0.382%
312	15.080	15.049	15.120	HH	2108	59352	5.36%	0.706%
313	15.131	15.120	15.157	HH	1105	22878	2.07%	0.272%
314	15.200	15.157	15.236	HH	78089	1107328	100.00%	13.168%
315	15.246	15.236	15.275	HH	1678	32601	2.94%	0.388%
316	15.297	15.275	15.320	HH	1295	31057	2.80%	0.369%
317	15.363	15.320	15.399	HH	3288	105859	9.56%	1.259%
318	15.402	15.399	15.426	HH	1978	25132	2.27%	0.299%
319	15.449	15.426	15.482	HH	1613	42482	3.84%	0.505%
320	15.507	15.482	15.546	HH	1675	50280	4.54%	0.598%
321	15.554	15.546	15.572	HH	1183	18076	1.63%	0.215%
322	15.598	15.572	15.622	HH	1470	38573	3.48%	0.459%
323	15.627	15.622	15.632	HH	1170	6852	0.62%	0.081%
324	15.642	15.632	15.685	HH	1235	37618	3.40%	0.447%
325	15.698	15.685	15.713	HH	1269	20640	1.86%	0.245%
326	15.727	15.713	15.744	HH	1317	23903	2.16%	0.284%
327	15.785	15.744	15.873	HH	32892	580464	52.42%	6.903%
328	15.883	15.873	15.902	HH	1650	27790	2.51%	0.330%
329	15.929	15.902	15.966	HH	2541	74293	6.71%	0.883%
330	16.008	15.966	16.039	HH	3998	100161	9.05%	1.191%
331	16.060	16.039	16.087	HH	1974	49164	4.44%	0.585%
332	16.096	16.087	16.115	HH	1571	25231	2.28%	0.300%
333	16.121	16.115	16.137	HH	1515	19343	1.75%	0.230%
334	16.180	16.137	16.189	HH	1810	50691	4.58%	0.603%
335	16.193	16.189	16.214	HH	1688	24305	2.19%	0.289%
336	16.245	16.214	16.280	HH	1915	68410	6.18%	0.814%
337	16.305	16.280	16.329	HH	2652	62524	5.65%	0.744%
338	16.347	16.329	16.374	HH	1913	48174	4.35%	0.573%
339	16.393	16.374	16.409	HH	1869	37406	3.38%	0.445%
340	16.433	16.409	16.482	HH	2904	92875	8.39%	1.104%
341	16.496	16.482	16.534	HH	2107	59379	5.36%	0.706%
342	16.537	16.534	16.544	HH	1806	10815	0.98%	0.129%
343	16.564	16.544	16.594	HH	2104	57765	5.22%	0.687%
344	16.624	16.594	16.657	HH	2426	79825	7.21%	0.949%
345	16.667	16.657	16.672	HH	2040	18183	1.64%	0.216%
346	16.700	16.672	16.710	HH	2096	45527	4.11%	0.541%
347	16.737	16.710	16.759	HH	2338	64588	5.83%	0.768%
348	16.804	16.759	16.848	HH	7371	202191	18.26%	2.404%
349	16.882	16.848	16.897	HH	3319	83813	7.57%	0.997%
350	16.915	16.897	16.966	HH	4285	129879	11.73%	1.544%
351	17.001	16.966	17.025	HH	4025	105198	9.50%	1.251%

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352	17.048	17.025	17.068	HH	2736	66864	6.04%	0.795%	
353	17.081	17.068	17.102	HH	2754	55410	5.00%	0.659%	
354	17.119	17.102	17.139	HH	2833	59222	5.35%	0.704%	
355	17.169	17.139	17.202	HH	3859	121830	11.00%	1.449%	
356	17.234	17.202	17.262	HH	3743	114547	10.34%	1.362%	
357	17.290	17.262	17.332	HH	4131	138548	12.51%	1.648%	
358	17.389	17.332	17.412	HH	4483	164403	14.85%	1.955%	
359	17.440	17.412	17.491	HH	11634	262466	23.70%	3.121%	
					Sum of corrected areas:	8409112			

FG061325.M Wed Jul 09 05:47:57 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-78	SDG No.:	Q2514
Lab Sample ID:	Q2514-08	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	86.3
Sample Wt/Vol:	30.04	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
FG016258.D	1	07/08/25 08:35	07/08/25 21:53	PB168751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	3420		196	1930	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	9.64		37 - 130	48%	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\FG070825\
Data File : FG016258.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 21:53
Operator : YP\AJ
Sample : Q2514-08
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-78

Integration File: Sample.e
Quant Time: Jul 09 03:16:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.199	1130849	9.641 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

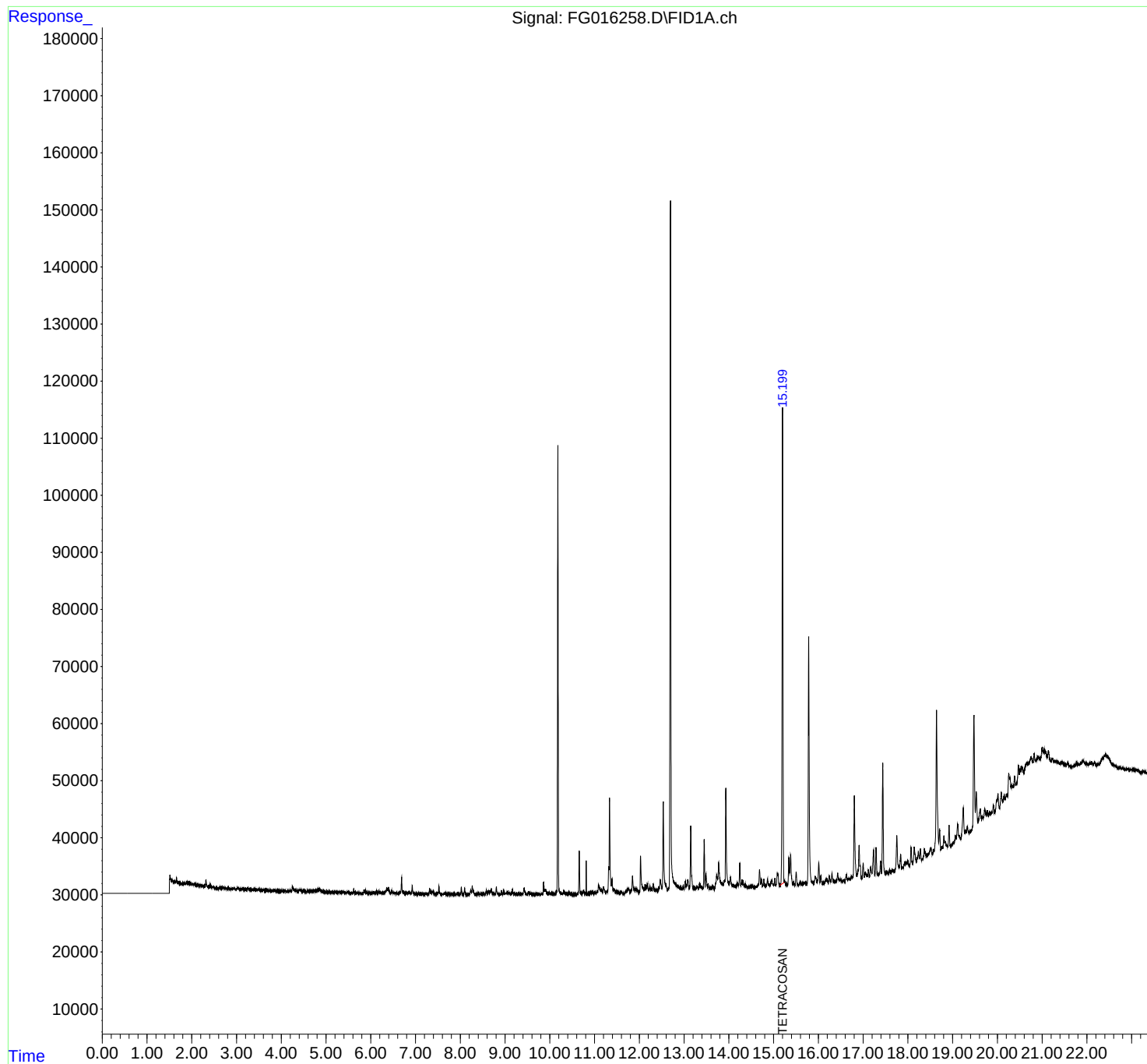
(m)=manual int.

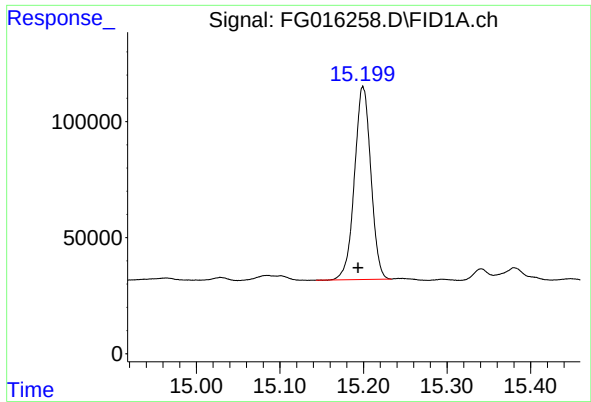
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016258.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 21:53
Operator : YP\AJ
Sample : Q2514-08
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-78

Integration File: Sample.e
Quant Time: Jul 09 03:16:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.199 min
Delta R.T.: 0.006 min
Response: 1130849
Conc: 9.64 ug/ml

Instrument :
FID_G
ClientSampleId :
TP-78

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016258.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 21:53
Sample : Q2514-08
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.476	4.469	4.482	VV	420	3030	0.19%	0.024%
2	4.486	4.482	4.494	VV	414	2557	0.16%	0.020%
3	4.500	4.494	4.509	VH	408	3089	0.19%	0.024%
4	4.512	4.509	4.537	HH	367	4930	0.31%	0.039%
5	4.544	4.537	4.549	HH	317	2106	0.13%	0.017%
6	4.589	4.549	4.601	HH	461	10521	0.65%	0.083%
7	4.636	4.601	4.652	HH	470	11106	0.69%	0.087%
8	4.672	4.652	4.690	HH	566	9582	0.59%	0.075%
9	4.710	4.690	4.730	HH	482	8752	0.54%	0.069%
10	4.739	4.730	4.745	HH	430	3149	0.20%	0.025%
11	4.751	4.745	4.764	HH	452	4285	0.27%	0.034%
12	4.773	4.764	4.782	HH	469	4407	0.27%	0.035%
13	4.836	4.782	4.854	HH	896	26152	1.62%	0.206%
14	4.859	4.854	4.890	HH	770	11022	0.68%	0.087%
15	4.904	4.890	4.984	HH	430	16126	1.00%	0.127%
16	4.990	4.984	5.015	HH	331	4426	0.27%	0.035%
17	5.042	5.015	5.090	HH	320	10517	0.65%	0.083%
18	5.097	5.090	5.140	HH	255	5696	0.35%	0.045%
19	5.143	5.140	5.159	HH	258	2008	0.12%	0.016%
20	5.165	5.159	5.180	HH	265	2355	0.15%	0.019%
21	5.199	5.180	5.224	HH	276	4846	0.30%	0.038%
22	5.229	5.224	5.241	HH	201	1548	0.10%	0.012%
23	5.246	5.241	5.250	HH	142	762	0.05%	0.006%
24	5.252	5.250	5.257	HH	170	555	0.03%	0.004%
25	5.261	5.257	5.286	HH	199	2372	0.15%	0.019%
26	5.293	5.286	5.299	HH	179	1126	0.07%	0.009%
27	5.326	5.299	5.345	HH	250	4805	0.30%	0.038%
28	5.355	5.345	5.367	HH	175	1510	0.09%	0.012%
29	5.385	5.367	5.406	HH	266	4437	0.27%	0.035%
30	5.422	5.406	5.448	HH	262	4191	0.26%	0.033%
31	5.478	5.448	5.510	HH	285	5767	0.36%	0.045%
32	5.516	5.510	5.549	HH	116	1673	0.10%	0.013%
33	5.567	5.549	5.584	HH	131	1296	0.08%	0.010%
34	5.618	5.584	5.637	PH	838	8365	0.52%	0.066%
35	5.653	5.637	5.677	HH	237	2425	0.15%	0.019%
36	5.693	5.677	5.740	PH	127	1211	0.08%	0.010%

					rteres			
37	5.753	5.740	5.775	PH	52	193	0.01%	0.002%
38	5.779	5.775	5.787	PH	-24	-59	-0.00%	-0.000%
39	5.791	5.787	5.797	PH	5	-112	-0.01%	-0.001%
40	5.816	5.797	5.827	PH	107	656	0.04%	0.005%
41	5.847	5.827	5.862	PH	605	5963	0.37%	0.047%
42	5.875	5.862	5.905	HH	553	6487	0.40%	0.051%
43	5.919	5.905	5.938	PH	195	1936	0.12%	0.015%
44	5.945	5.938	5.954	HH	54	454	0.03%	0.004%
45	5.957	5.954	5.994	HH	89	570	0.04%	0.004%
46	5.998	5.994	6.020	HH	57	250	0.02%	0.002%
47	6.067	6.020	6.114	PH	266	4725	0.29%	0.037%
48	6.132	6.114	6.162	PH	499	4727	0.29%	0.037%
49	6.182	6.162	6.202	PH	516	4592	0.28%	0.036%
50	6.213	6.202	6.229	PH	172	1910	0.12%	0.015%
51	6.234	6.229	6.240	HH	155	870	0.05%	0.007%
52	6.247	6.240	6.253	HH	212	978	0.06%	0.008%
53	6.255	6.253	6.267	HH	115	586	0.04%	0.005%
54	6.272	6.267	6.285	HH	66	439	0.03%	0.003%
55	6.289	6.285	6.312	HH	103	500	0.03%	0.004%
56	6.328	6.312	6.338	PH	474	4110	0.25%	0.032%
57	6.354	6.338	6.374	HH	966	13841	0.86%	0.109%
58	6.393	6.374	6.434	HH	941	17769	1.10%	0.140%
59	6.463	6.434	6.532	HH	570	7768	0.48%	0.061%
60	6.541	6.532	6.552	PH	82	494	0.03%	0.004%
61	6.556	6.552	6.560	PH	71	128	0.01%	0.001%
62	6.582	6.560	6.614	PH	116	1074	0.07%	0.008%
63	6.619	6.614	6.623	PH	30	47	0.00%	0.000%
64	6.637	6.623	6.650	PH	91	498	0.03%	0.004%
65	6.655	6.650	6.660	PH	53	142	0.01%	0.001%
66	6.688	6.660	6.728	PH	2829	32962	2.04%	0.259%
67	6.737	6.728	6.762	PH	102	916	0.06%	0.007%
68	6.767	6.762	6.783	PH	40	78	0.00%	0.001%
69	6.791	6.783	6.805	PH	153	1270	0.08%	0.010%
70	6.814	6.805	6.820	HH	146	831	0.05%	0.007%
71	6.829	6.820	6.849	HH	93	1207	0.07%	0.010%
72	6.868	6.849	6.891	HH	137	1441	0.09%	0.011%
73	6.897	6.891	6.902	PH	-16	-114	-0.01%	-0.001%
74	6.925	6.902	6.989	PH	1369	10841	0.67%	0.085%
75	7.002	6.989	7.039	PH	-13	-2600	-0.16%	-0.020%
76	7.055	7.039	7.091	PH	-18	-3537	-0.22%	-0.028%
77	7.105	7.091	7.111	PH	-48	-1328	-0.08%	-0.010%
78	7.115	7.111	7.124	PH	4	-628	-0.04%	-0.005%
79	7.130	7.124	7.160	PH	-31	-2290	-0.14%	-0.018%
80	7.172	7.160	7.175	PH	-101	-1246	-0.08%	-0.010%
81	7.179	7.175	7.205	PH	-45	-2120	-0.13%	-0.017%
82	7.239	7.205	7.280	PH	-80	-5900	-0.37%	-0.046%
83	7.314	7.280	7.329	PH	835	5274	0.33%	0.042%
84	7.344	7.329	7.370	PH	445	5634	0.35%	0.044%
85	7.383	7.370	7.388	HH	346	2401	0.15%	0.019%
86	7.390	7.388	7.421	HH	283	2080	0.13%	0.016%
87	7.426	7.421	7.466	PH	-32	-2384	-0.15%	-0.019%
88	7.480	7.466	7.499	PH	-32	-1807	-0.11%	-0.014%
89	7.521	7.499	7.550	PH	1311	11445	0.71%	0.090%

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90	7.553	7.550	7.569	PH	-34	-1164	-0.07%	-0.009%
91	7.572	7.569	7.614	PH	-117	-4977	-0.31%	-0.039%
92	7.640	7.614	7.654	PH	-59	-3351	-0.21%	-0.026%
93	7.671	7.654	7.693	PH	142	-1220	-0.08%	-0.010%
94	7.701	7.693	7.735	PH	-104	-4218	-0.26%	-0.033%
95	7.753	7.735	7.759	PH	-151	-2542	-0.16%	-0.020%
96	7.762	7.759	7.776	PH	-125	-2184	-0.14%	-0.017%
97	7.796	7.776	7.804	PH	-70	-2580	-0.16%	-0.020%
98	7.806	7.804	7.830	PH	-67	-2327	-0.14%	-0.018%
99	7.838	7.830	7.852	PH	-120	-2386	-0.15%	-0.019%
100	7.864	7.852	7.905	PH	18	-4818	-0.30%	-0.038%
101	7.923	7.905	7.957	PH	20	-2855	-0.18%	-0.022%
102	7.962	7.957	7.977	PH	-130	-2259	-0.14%	-0.018%
103	7.980	7.977	7.995	PH	-155	-2278	-0.14%	-0.018%
104	8.000	7.995	8.004	PH	-185	-1181	-0.07%	-0.009%
105	8.023	8.004	8.051	PH	1108	7875	0.49%	0.062%
106	8.055	8.051	8.066	PH	-123	-1576	-0.10%	-0.012%
107	8.068	8.066	8.073	PH	-229	-956	-0.06%	-0.008%
108	8.098	8.073	8.142	PH	850	2138	0.13%	0.017%
109	8.146	8.142	8.150	PH	-141	-898	-0.06%	-0.007%
110	8.155	8.150	8.180	PH	-128	-3689	-0.23%	-0.029%
111	8.185	8.180	8.202	PH	-140	-2322	-0.14%	-0.018%
112	8.232	8.202	8.250	PH	573	4371	0.27%	0.034%
113	8.267	8.250	8.282	HH	1332	13102	0.81%	0.103%
114	8.293	8.282	8.326	HH	549	4150	0.26%	0.033%
115	8.341	8.326	8.375	PH	-121	-5308	-0.33%	-0.042%
116	8.405	8.375	8.439	PH	56	-4002	-0.25%	-0.031%
117	8.464	8.439	8.484	PH	-73	-4070	-0.25%	-0.032%
118	8.489	8.484	8.503	PH	-154	-1975	-0.12%	-0.016%
119	8.519	8.503	8.548	PH	-18	-3439	-0.21%	-0.027%
120	8.583	8.548	8.605	PH	566	3253	0.20%	0.026%
121	8.624	8.605	8.645	PH	418	4427	0.27%	0.035%
122	8.684	8.645	8.724	HH	564	13971	0.87%	0.110%
123	8.752	8.724	8.769	PH	32	-2501	-0.15%	-0.020%
124	8.776	8.769	8.786	PH	-93	-1277	-0.08%	-0.010%
125	8.806	8.786	8.853	PH	1136	9414	0.58%	0.074%
126	8.874	8.853	8.888	PH	-104	-3506	-0.22%	-0.028%
127	8.895	8.888	8.906	PH	-192	-2504	-0.16%	-0.020%
128	8.924	8.906	8.947	PH	466	1732	0.11%	0.014%
129	8.965	8.947	9.003	PH	420	2455	0.15%	0.019%
130	9.015	9.003	9.029	PH	44	-48	-0.00%	-0.000%
131	9.059	9.029	9.100	PH	211	2317	0.14%	0.018%
132	9.109	9.100	9.118	PH	74	100	0.01%	0.001%
133	9.134	9.118	9.150	PH	90	-375	-0.02%	-0.003%
134	9.166	9.150	9.187	PH	750	6487	0.40%	0.051%
135	9.200	9.187	9.220	PH	-52	-2090	-0.13%	-0.016%
136	9.232	9.220	9.244	PH	-98	-1907	-0.12%	-0.015%
137	9.259	9.244	9.283	PH	-118	-4413	-0.27%	-0.035%
138	9.303	9.283	9.336	PH	117	-2322	-0.14%	-0.018%
139	9.349	9.336	9.364	PH	-82	-2326	-0.14%	-0.018%
140	9.379	9.364	9.395	PH	3	-1592	-0.10%	-0.013%
141	9.423	9.395	9.463	PH	914	11227	0.70%	0.088%

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142	9.473	9.463	9.499	PH	-119	-4176	-0.26%	-0.033%
143	9.523	9.499	9.550	PH	271	128	0.01%	0.001%
144	9.560	9.550	9.584	PH	67	-1430	-0.09%	-0.011%
145	9.588	9.584	9.593	PH	-150	-920	-0.06%	-0.007%
146	9.617	9.593	9.646	PH	-52	-5065	-0.31%	-0.040%
147	9.650	9.646	9.657	PH	-206	-1557	-0.10%	-0.012%
148	9.677	9.657	9.692	PH	-66	-3082	-0.19%	-0.024%
149	9.703	9.692	9.737	PH	69	-2202	-0.14%	-0.017%
150	9.744	9.737	9.753	PH	-93	-1646	-0.10%	-0.013%
151	9.763	9.753	9.780	PH	-85	-2453	-0.15%	-0.019%
152	9.789	9.780	9.801	PH	-142	-2267	-0.14%	-0.018%
153	9.818	9.801	9.837	PH	2	-2370	-0.15%	-0.019%
154	9.858	9.837	9.887	PH	1889	23670	1.47%	0.186%
155	9.907	9.887	9.937	HH	617	9962	0.62%	0.078%
156	9.946	9.937	9.966	PH	30	-129	-0.01%	-0.001%
157	9.979	9.966	10.015	PH	196	-54	-0.00%	-0.000%
158	10.048	10.015	10.055	PH	81	-545	-0.03%	-0.004%
159	10.058	10.055	10.095	PH	2	-2173	-0.13%	-0.017%
160	10.098	10.095	10.102	PH	-95	-516	-0.03%	-0.004%
161	10.107	10.102	10.115	PH	-102	-1022	-0.06%	-0.008%
162	10.149	10.115	10.154	PH	433	1841	0.11%	0.014%
163	10.180	10.154	10.230	HH	78434	795300	49.27%	6.260%
164	10.247	10.230	10.284	PH	271	-594	-0.04%	-0.005%
165	10.312	10.284	10.362	PH	499	4442	0.28%	0.035%
166	10.367	10.362	10.371	PH	-95	-692	-0.04%	-0.005%
167	10.384	10.371	10.400	PH	-47	-2051	-0.13%	-0.016%
168	10.416	10.400	10.434	PH	150	329	0.02%	0.003%
169	10.442	10.434	10.468	PH	-56	-2043	-0.13%	-0.016%
170	10.474	10.468	10.504	PH	-146	-4004	-0.25%	-0.032%
171	10.509	10.504	10.515	PH	-220	-1422	-0.09%	-0.011%
172	10.537	10.515	10.553	PH	-161	-5133	-0.32%	-0.040%
173	10.586	10.553	10.606	PH	-112	-6181	-0.38%	-0.049%
174	10.657	10.606	10.687	PH	7407	74650	4.63%	0.588%
175	10.704	10.687	10.720	PH	81	636	0.04%	0.005%
176	10.753	10.720	10.780	PH	561	5647	0.35%	0.044%
177	10.794	10.780	10.809	PH	78	-481	-0.03%	-0.004%
178	10.813	10.809	10.825	PH	3229	2973	0.18%	0.023%
179	10.868	10.825	10.891	PH	34	-2118	-0.13%	-0.017%
180	10.919	10.891	10.929	PH	134	203	0.01%	0.002%
181	10.959	10.929	10.992	HH	226	2041	0.13%	0.016%
182	11.010	10.992	11.029	PH	356	2768	0.17%	0.022%
183	11.057	11.029	11.070	PH	459	4761	0.29%	0.037%
184	11.088	11.070	11.147	HH	1575	37254	2.31%	0.293%
185	11.158	11.147	11.175	HH	574	7160	0.44%	0.056%
186	11.198	11.175	11.262	HH	1118	27276	1.69%	0.215%
187	11.334	11.262	11.375	HH	16637	258234	16.00%	2.033%
188	11.390	11.375	11.415	HH	2607	36148	2.24%	0.285%
189	11.429	11.415	11.472	HH	745	16299	1.01%	0.128%
190	11.488	11.472	11.557	HH	363	8589	0.53%	0.068%
191	11.576	11.557	11.585	PH	93	1070	0.07%	0.008%
192	11.601	11.585	11.670	HH	243	1617	0.10%	0.013%
193	11.699	11.670	11.717	PH	401	6327	0.39%	0.050%
194	11.738	11.717	11.752	HH	739	11812	0.73%	0.093%

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195	11.764	11.752	11.794	HH	909	13795	0.85%	0.109%
196	11.847	11.794	11.900	HH	3042	65513	4.06%	0.516%
197	11.925	11.900	11.947	HH	836	18014	1.12%	0.142%
198	11.962	11.947	11.992	HH	586	10433	0.65%	0.082%
199	12.028	11.992	12.103	HH	6533	117889	7.30%	0.928%
200	12.125	12.103	12.141	HH	1526	21670	1.34%	0.171%
201	12.156	12.141	12.170	HH	1489	18642	1.15%	0.147%
202	12.185	12.170	12.209	HH	1675	24342	1.51%	0.192%
203	12.239	12.209	12.260	HH	1311	25298	1.57%	0.199%
204	12.274	12.260	12.289	HH	854	10837	0.67%	0.085%
205	12.309	12.289	12.360	HH	1632	36441	2.26%	0.287%
206	12.371	12.360	12.404	HH	575	13459	0.83%	0.106%
207	12.440	12.404	12.448	HH	1124	20350	1.26%	0.160%
208	12.466	12.448	12.507	HH	2349	55448	3.44%	0.436%
209	12.535	12.507	12.590	HH	15899	249288	15.45%	1.962%
210	12.597	12.590	12.642	HH	1486	30128	1.87%	0.237%
211	12.696	12.642	12.795	HH	121453	1614023	100.00%	12.704%
212	12.805	12.795	12.900	HH	1759	79290	4.91%	0.624%
213	12.921	12.900	12.960	HH	1171	32819	2.03%	0.258%
214	12.978	12.960	12.997	HH	1263	21418	1.33%	0.169%
215	13.030	12.997	13.049	HH	2103	43443	2.69%	0.342%
216	13.083	13.049	13.124	HH	2418	68279	4.23%	0.537%
217	13.149	13.124	13.195	HH	11792	180891	11.21%	1.424%
218	13.207	13.195	13.264	HH	979	35620	2.21%	0.280%
219	13.290	13.264	13.322	HH	1344	35424	2.19%	0.279%
220	13.348	13.322	13.425	HH	1658	69730	4.32%	0.549%
221	13.450	13.425	13.472	HH	9476	118588	7.35%	0.933%
222	13.489	13.472	13.524	HH	3370	66857	4.14%	0.526%
223	13.537	13.524	13.562	HH	1627	26782	1.66%	0.211%
224	13.583	13.562	13.604	HH	983	21938	1.36%	0.173%
225	13.624	13.604	13.636	HH	1150	19423	1.20%	0.153%
226	13.649	13.636	13.679	HH	1187	24353	1.51%	0.192%
227	13.728	13.679	13.754	HH	3318	94894	5.88%	0.747%
228	13.772	13.754	13.840	HH	5420	152320	9.44%	1.199%
229	13.848	13.840	13.867	HH	1787	26642	1.65%	0.210%
230	13.900	13.867	13.914	HH	2172	51992	3.22%	0.409%
231	13.932	13.914	14.005	HH	18314	293429	18.18%	2.310%
232	14.037	14.005	14.085	HH	2823	90301	5.59%	0.711%
233	14.111	14.085	14.133	HH	1501	38181	2.37%	0.301%
234	14.154	14.133	14.172	HH	1358	29824	1.85%	0.235%
235	14.192	14.172	14.219	HH	1861	41783	2.59%	0.329%
236	14.244	14.219	14.268	HH	5333	85150	5.28%	0.670%
237	14.294	14.268	14.312	HH	2356	49467	3.06%	0.389%
238	14.322	14.312	14.347	HH	1929	32670	2.02%	0.257%
239	14.364	14.347	14.429	HH	1704	62023	3.84%	0.488%
240	14.437	14.429	14.455	HH	1159	17241	1.07%	0.136%
241	14.476	14.455	14.499	HH	1228	29678	1.84%	0.234%
242	14.526	14.499	14.564	HH	1280	45892	2.84%	0.361%
243	14.571	14.564	14.590	HH	1121	17370	1.08%	0.137%
244	14.616	14.590	14.624	HH	1156	22441	1.39%	0.177%
245	14.685	14.624	14.714	HH	4126	110155	6.82%	0.867%
246	14.732	14.714	14.756	HH	2334	46816	2.90%	0.368%

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247	14.782	14.756	14.812	HH	2529	57074	3.54%	0.449%
248	14.818	14.812	14.842	HH	1394	23747	1.47%	0.187%
249	14.865	14.842	14.910	HH	2564	72633	4.50%	0.572%
250	14.964	14.910	15.002	HH	2348	96877	6.00%	0.763%
251	15.029	15.002	15.049	HH	2650	52333	3.24%	0.412%
252	15.085	15.049	15.134	HH	3435	118031	7.31%	0.929%
253	15.200	15.134	15.235	HH	84739	1230730	76.25%	9.687%
254	15.245	15.235	15.277	HH	2164	45677	2.83%	0.360%
255	15.295	15.277	15.315	HH	1817	36359	2.25%	0.286%
256	15.341	15.315	15.357	HH	6294	96162	5.96%	0.757%
257	15.381	15.357	15.426	HH	6763	157182	9.74%	1.237%
258	15.448	15.426	15.472	HH	2074	46948	2.91%	0.370%
259	15.505	15.472	15.555	HH	3714	103260	6.40%	0.813%
260	15.596	15.555	15.620	HH	1939	65050	4.03%	0.512%
261	15.642	15.620	15.669	HH	1786	48548	3.01%	0.382%
262	15.686	15.669	15.719	HH	1864	52892	3.28%	0.416%
263	15.724	15.719	15.745	HH	1811	27518	1.70%	0.217%
264	15.784	15.745	15.872	HH	44901	763502	47.30%	6.010%
265	15.884	15.872	15.905	HH	1994	37916	2.35%	0.298%
266	15.931	15.905	15.965	HH	2976	87949	5.45%	0.692%
267	16.010	15.965	16.038	HH	5359	135870	8.42%	1.069%
268	16.057	16.038	16.110	HH	3097	95098	5.89%	0.749%
269	16.182	16.110	16.212	HH	2441	127990	7.93%	1.007%
270	16.245	16.212	16.277	HH	3134	93045	5.76%	0.732%
271	16.305	16.277	16.335	HH	3466	91198	5.65%	0.718%
272	16.344	16.335	16.380	HH	2278	56889	3.52%	0.448%
273	16.397	16.380	16.412	HH	2265	41116	2.55%	0.324%
274	16.433	16.412	16.484	HH	3567	113386	7.03%	0.892%
275	16.496	16.484	16.544	HH	2573	81973	5.08%	0.645%
276	16.569	16.544	16.592	HH	2282	63823	3.95%	0.502%
277	16.624	16.592	16.652	HH	3273	95997	5.95%	0.756%
278	16.665	16.652	16.679	HH	2530	39667	2.46%	0.312%
279	16.690	16.679	16.707	HH	2564	42050	2.61%	0.331%
280	16.742	16.707	16.754	HH	2926	75111	4.65%	0.591%
281	16.804	16.754	16.860	HH	17016	410512	25.43%	3.231%
282	16.911	16.860	16.972	HH	8431	303043	18.78%	2.385%
283	17.001	16.972	17.024	HH	5341	117958	7.31%	0.928%
284	17.043	17.024	17.094	HH	3692	137292	8.51%	1.081%
285	17.118	17.094	17.142	HH	4110	99241	6.15%	0.781%
286	17.168	17.142	17.199	HH	4556	129622	8.03%	1.020%
287	17.233	17.199	17.262	HH	7562	194471	12.05%	1.531%
288	17.290	17.262	17.337	HH	7898	204582	12.68%	1.610%
289	17.356	17.337	17.369	HH	3611	65259	4.04%	0.514%
290	17.390	17.369	17.410	HH	5648	110737	6.86%	0.872%
291	17.439	17.410	17.489	HH	22786	424399	26.29%	3.341%
Sum of corrected areas:						12704465		

FG061325.M Wed Jul 09 05:48:21 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-81	SDG No.:	Q2514
Lab Sample ID:	Q2514-09	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	86.3
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
FG016259.D	1	07/08/25 08:35	07/08/25 22:23	PB168751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2790		196	1930	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	9.18		37 - 130	46%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016259.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 22:23
Operator : YP\AJ
Sample : Q2514-09
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-81

Integration File: Sample.e
Quant Time: Jul 09 03:16:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.198	1077078	9.182 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

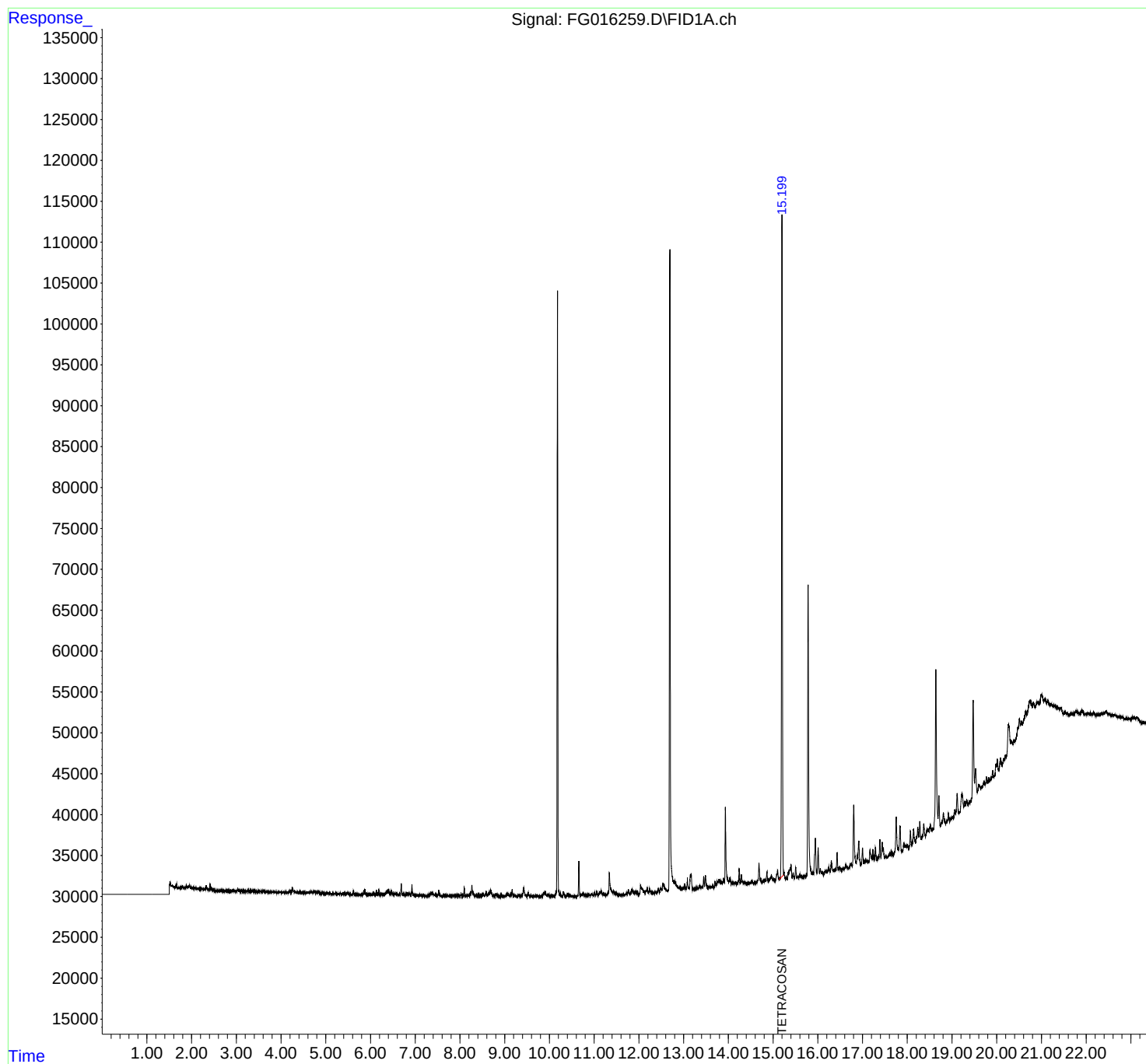
(m)=manual int.

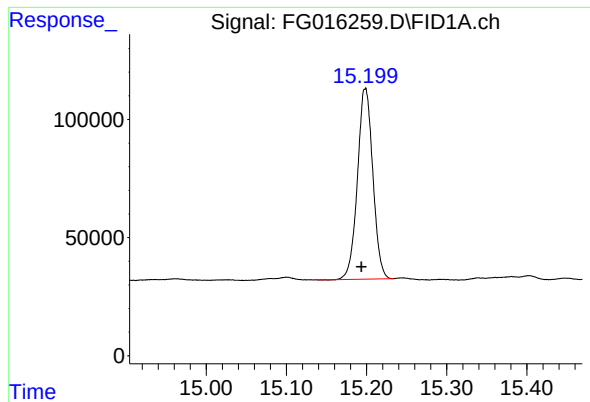
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016259.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 22:23
Operator : YP\AJ
Sample : Q2514-09
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-81

Integration File: Sample.e
Quant Time: Jul 09 03:16:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.198 min
Delta R.T.: 0.005 min
Response: 1077078
Conc: 9.18 ug/ml

Instrument :
FID_G
ClientSampleId :
TP-81

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016259.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 22:23
Sample : Q2514-09
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.714	4.687	4.736	HH	332	8313	0.70%	0.079%
2	4.748	4.736	4.754	HH	328	3050	0.26%	0.029%
3	4.760	4.754	4.781	HH	362	4337	0.37%	0.041%
4	4.792	4.781	4.811	HH	227	3297	0.28%	0.031%
5	4.816	4.811	4.819	HH	158	725	0.06%	0.007%
6	4.836	4.819	4.857	HH	390	5509	0.47%	0.052%
7	4.861	4.857	4.871	HH	182	1056	0.09%	0.010%
8	4.875	4.871	4.887	HH	194	1270	0.11%	0.012%
9	4.891	4.887	4.917	HH	166	2074	0.18%	0.020%
10	4.921	4.917	4.926	HH	185	602	0.05%	0.006%
11	4.934	4.926	4.941	HH	137	724	0.06%	0.007%
12	4.945	4.941	4.949	HH	85	390	0.03%	0.004%
13	4.953	4.949	4.960	HH	136	611	0.05%	0.006%
14	4.971	4.960	4.987	HH	118	1380	0.12%	0.013%
15	4.996	4.987	5.002	HH	105	706	0.06%	0.007%
16	5.013	5.002	5.017	HH	149	957	0.08%	0.009%
17	5.051	5.017	5.063	HH	182	3235	0.27%	0.031%
18	5.068	5.063	5.079	HH	131	852	0.07%	0.008%
19	5.087	5.079	5.110	HH	151	1668	0.14%	0.016%
20	5.114	5.110	5.123	HH	143	616	0.05%	0.006%
21	5.128	5.123	5.137	HH	125	638	0.05%	0.006%
22	5.143	5.137	5.146	HH	62	244	0.02%	0.002%
23	5.149	5.146	5.153	HH	112	304	0.03%	0.003%
24	5.159	5.153	5.167	HH	138	728	0.06%	0.007%
25	5.182	5.167	5.201	HH	156	1927	0.16%	0.018%
26	5.206	5.201	5.249	HH	122	1652	0.14%	0.016%
27	5.257	5.249	5.300	HH	119	1403	0.12%	0.013%
28	5.329	5.300	5.356	PH	166	2693	0.23%	0.026%
29	5.364	5.356	5.372	PH	56	165	0.01%	0.002%
30	5.382	5.372	5.426	PH	155	2732	0.23%	0.026%
31	5.428	5.426	5.439	HH	97	500	0.04%	0.005%
32	5.444	5.439	5.448	HH	65	161	0.01%	0.002%
33	5.452	5.448	5.461	HH	88	298	0.03%	0.003%
34	5.483	5.461	5.501	PH	159	1880	0.16%	0.018%
35	5.505	5.501	5.572	PH	63	-232	-0.02%	-0.002%
36	5.617	5.572	5.639	PH	417	2904	0.25%	0.028%

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37	5.654	5.639	5.683	PH	149	159	0.01%	0.002%
38	5.689	5.683	5.730	HH	52	-552	-0.05%	-0.005%
39	5.737	5.730	5.739	PH	-21	-287	-0.02%	-0.003%
40	5.746	5.739	5.749	PH	2	-178	-0.02%	-0.002%
41	5.754	5.749	5.770	PH	31	-271	-0.02%	-0.003%
42	5.775	5.770	5.787	PH	-17	-700	-0.06%	-0.007%
43	5.796	5.787	5.801	PH	-58	-584	-0.05%	-0.006%
44	5.815	5.801	5.831	PH	15	-835	-0.07%	-0.008%
45	5.849	5.831	5.860	PH	477	3491	0.30%	0.033%
46	5.873	5.860	5.914	HH	594	5810	0.49%	0.055%
47	5.919	5.914	5.947	PH	79	-170	-0.01%	-0.002%
48	5.959	5.947	5.970	PH	17	-378	-0.03%	-0.004%
49	5.975	5.970	5.980	PH	-23	-292	-0.02%	-0.003%
50	5.985	5.980	5.998	PH	-3	-430	-0.04%	-0.004%
51	6.002	5.998	6.016	PH	-23	-479	-0.04%	-0.005%
52	6.041	6.016	6.046	PH	65	-376	-0.03%	-0.004%
53	6.071	6.046	6.106	PH	152	1495	0.13%	0.014%
54	6.133	6.106	6.159	PH	463	3207	0.27%	0.030%
55	6.182	6.159	6.209	PH	513	3729	0.32%	0.035%
56	6.226	6.209	6.231	PH	6	-660	-0.06%	-0.006%
57	6.250	6.231	6.256	PH	140	295	0.02%	0.003%
58	6.260	6.256	6.309	PH	56	-297	-0.03%	-0.003%
59	6.327	6.309	6.337	PH	169	884	0.07%	0.008%
60	6.356	6.337	6.379	HH	422	6809	0.58%	0.065%
61	6.399	6.379	6.452	HH	574	9920	0.84%	0.094%
62	6.463	6.452	6.499	PH	478	5392	0.46%	0.051%
63	6.506	6.499	6.514	PH	32	184	0.02%	0.002%
64	6.519	6.514	6.549	PH	32	121	0.01%	0.001%
65	6.562	6.549	6.569	PH	27	119	0.01%	0.001%
66	6.572	6.569	6.605	PH	51	-30	-0.00%	-0.000%
67	6.611	6.605	6.633	PH	1	-654	-0.06%	-0.006%
68	6.642	6.633	6.655	PH	51	-4	-0.00%	-0.000%
69	6.688	6.655	6.708	PH	1294	13394	1.13%	0.127%
70	6.714	6.708	6.720	PH	89	166	0.01%	0.002%
71	6.738	6.720	6.764	PH	58	-19	-0.00%	-0.000%
72	6.771	6.764	6.782	PH	46	-304	-0.03%	-0.003%
73	6.794	6.782	6.799	PH	71	259	0.02%	0.002%
74	6.806	6.799	6.816	HH	95	722	0.06%	0.007%
75	6.820	6.816	6.826	HH	34	236	0.02%	0.002%
76	6.841	6.826	6.906	HH	119	1140	0.10%	0.011%
77	6.926	6.906	6.951	PH	1216	9660	0.82%	0.092%
78	6.956	6.951	6.990	PH	-54	-2725	-0.23%	-0.026%
79	7.006	6.990	7.031	PH	-39	-3278	-0.28%	-0.031%
80	7.035	7.031	7.040	PH	-154	-816	-0.07%	-0.008%
81	7.066	7.040	7.094	PH	-42	-4554	-0.39%	-0.043%
82	7.114	7.094	7.158	PH	-37	-4896	-0.41%	-0.047%
83	7.165	7.158	7.169	PH	-151	-1209	-0.10%	-0.011%
84	7.176	7.169	7.181	PH	-121	-1101	-0.09%	-0.010%
85	7.187	7.181	7.197	PH	-107	-1649	-0.14%	-0.016%
86	7.199	7.197	7.203	PH	-120	-602	-0.05%	-0.006%
87	7.205	7.203	7.216	PH	-173	-1610	-0.14%	-0.015%
88	7.226	7.216	7.251	PH	-159	-4160	-0.35%	-0.040%
89	7.253	7.251	7.258	PH	-150	-828	-0.07%	-0.008%

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90	7.262	7.258	7.282	PH	-164	-2977	-0.25%	-0.028%
91	7.289	7.282	7.293	PH	-144	-1277	-0.11%	-0.012%
92	7.311	7.293	7.329	PH	21	-1538	-0.13%	-0.015%
93	7.343	7.329	7.367	PH	280	2673	0.23%	0.025%
94	7.383	7.367	7.405	HH	158	1751	0.15%	0.017%
95	7.408	7.405	7.454	PH	0	-3066	-0.26%	-0.029%
96	7.474	7.454	7.486	PH	-107	-2697	-0.23%	-0.026%
97	7.496	7.486	7.507	PH	-34	-1487	-0.13%	-0.014%
98	7.523	7.507	7.584	PH	570	-595	-0.05%	-0.006%
99	7.591	7.584	7.620	PH	-145	-4580	-0.39%	-0.044%
100	7.638	7.620	7.654	PH	-109	-3570	-0.30%	-0.034%
101	7.671	7.654	7.690	PH	17	-2808	-0.24%	-0.027%
102	7.702	7.690	7.723	PH	-110	-3173	-0.27%	-0.030%
103	7.727	7.723	7.746	PH	-118	-2859	-0.24%	-0.027%
104	7.754	7.746	7.759	PH	-162	-1629	-0.14%	-0.015%
105	7.764	7.759	7.772	PH	-212	-1878	-0.16%	-0.018%
106	7.786	7.772	7.791	PH	-180	-2207	-0.19%	-0.021%
107	7.799	7.791	7.814	PH	-77	-1967	-0.17%	-0.019%
108	7.823	7.814	7.844	PH	-152	-3281	-0.28%	-0.031%
109	7.863	7.844	7.886	PH	-61	-4116	-0.35%	-0.039%
110	7.892	7.886	7.906	PH	-143	-2388	-0.20%	-0.023%
111	7.931	7.906	7.958	PH	-69	-4688	-0.40%	-0.045%
112	7.972	7.958	7.979	PH	-169	-2701	-0.23%	-0.026%
113	7.989	7.979	8.007	PH	-183	-3716	-0.31%	-0.035%
114	8.025	8.007	8.056	PH	16	-3472	-0.29%	-0.033%
115	8.061	8.056	8.066	PH	-224	-1472	-0.12%	-0.014%
116	8.072	8.066	8.074	PH	-205	-1052	-0.09%	-0.010%
117	8.096	8.074	8.133	PH	775	3133	0.27%	0.030%
118	8.139	8.133	8.144	PH	-165	-1398	-0.12%	-0.013%
119	8.150	8.144	8.165	PH	-128	-2400	-0.20%	-0.023%
120	8.185	8.165	8.201	PH	-114	-4022	-0.34%	-0.038%
121	8.232	8.201	8.247	PH	213	364	0.03%	0.003%
122	8.267	8.247	8.284	HH	1118	11447	0.97%	0.109%
123	8.293	8.284	8.341	HH	191	-880	-0.07%	-0.008%
124	8.344	8.341	8.367	PH	-158	-2859	-0.24%	-0.027%
125	8.377	8.367	8.399	PH	-82	-2695	-0.23%	-0.026%
126	8.402	8.399	8.421	PH	-41	-1566	-0.13%	-0.015%
127	8.426	8.421	8.433	PH	-141	-1197	-0.10%	-0.011%
128	8.439	8.433	8.456	PH	-101	-1958	-0.17%	-0.019%
129	8.465	8.456	8.479	PH	-68	-1869	-0.16%	-0.018%
130	8.489	8.479	8.499	PH	-116	-2084	-0.18%	-0.020%
131	8.511	8.499	8.539	PH	-53	-2994	-0.25%	-0.028%
132	8.545	8.539	8.555	PH	-147	-1711	-0.14%	-0.016%
133	8.583	8.555	8.606	PH	399	898	0.08%	0.009%
134	8.621	8.606	8.640	PH	45	-873	-0.07%	-0.008%
135	8.691	8.640	8.726	PH	538	9690	0.82%	0.092%
136	8.730	8.726	8.739	PH	-115	-1299	-0.11%	-0.012%
137	8.753	8.739	8.777	PH	-11	-3240	-0.27%	-0.031%
138	8.804	8.777	8.829	PH	92	-3081	-0.26%	-0.029%
139	8.833	8.829	8.857	PH	-65	-3070	-0.26%	-0.029%
140	8.875	8.857	8.897	PH	-164	-5283	-0.45%	-0.050%
141	8.923	8.897	8.966	PH	-15	-7785	-0.66%	-0.074%

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142	8.974	8.966	8.993	PH	-161	-3257	-0.28%	-0.031%
143	8.997	8.993	9.002	PH	-216	-1224	-0.10%	-0.012%
144	9.020	9.002	9.026	PH	-121	-2698	-0.23%	-0.026%
145	9.056	9.026	9.102	PH	35	-3513	-0.30%	-0.033%
146	9.107	9.102	9.116	PH	-97	-1181	-0.10%	-0.011%
147	9.129	9.116	9.147	PH	50	-1150	-0.10%	-0.011%
148	9.167	9.147	9.192	PH	586	3426	0.29%	0.033%
149	9.199	9.192	9.221	PH	-58	-2587	-0.22%	-0.025%
150	9.224	9.221	9.251	PH	-120	-3131	-0.27%	-0.030%
151	9.255	9.251	9.276	PH	-140	-3204	-0.27%	-0.030%
152	9.308	9.276	9.316	PH	-106	-4330	-0.37%	-0.041%
153	9.323	9.316	9.334	PH	-113	-1941	-0.16%	-0.018%
154	9.350	9.334	9.373	PH	-161	-4580	-0.39%	-0.044%
155	9.381	9.373	9.391	PH	-80	-1523	-0.13%	-0.014%
156	9.420	9.391	9.461	PH	788	10269	0.87%	0.098%
157	9.465	9.461	9.496	PH	-99	-3966	-0.34%	-0.038%
158	9.524	9.496	9.579	PH	245	-4745	-0.40%	-0.045%
159	9.585	9.579	9.612	PH	-170	-4834	-0.41%	-0.046%
160	9.621	9.612	9.646	PH	-207	-5099	-0.43%	-0.048%
161	9.650	9.646	9.667	PH	-261	-3329	-0.28%	-0.032%
162	9.672	9.667	9.694	PH	-211	-4270	-0.36%	-0.041%
163	9.719	9.694	9.739	PH	-146	-5637	-0.48%	-0.054%
164	9.749	9.739	9.759	PH	-154	-2821	-0.24%	-0.027%
165	9.764	9.759	9.772	PH	-242	-2005	-0.17%	-0.019%
166	9.777	9.772	9.781	PH	-253	-1673	-0.14%	-0.016%
167	9.823	9.781	9.845	PH	-158	-9156	-0.78%	-0.087%
168	9.865	9.845	9.886	PH	176	732	0.06%	0.007%
169	9.908	9.886	9.939	HH	362	2288	0.19%	0.022%
170	9.958	9.939	9.970	PH	-70	-2360	-0.20%	-0.022%
171	9.982	9.970	10.017	PH	-14	-3921	-0.33%	-0.037%
172	10.022	10.017	10.029	PH	-157	-1509	-0.13%	-0.014%
173	10.037	10.029	10.064	PH	-151	-4009	-0.34%	-0.038%
174	10.068	10.064	10.073	PH	-105	-899	-0.08%	-0.009%
175	10.079	10.073	10.084	PH	-147	-1212	-0.10%	-0.012%
176	10.088	10.084	10.110	PH	-173	-3174	-0.27%	-0.030%
177	10.149	10.110	10.156	PH	371	-345	-0.03%	-0.003%
178	10.180	10.156	10.231	HH	73937	741513	62.78%	7.046%
179	10.249	10.231	10.277	PH	190	-2213	-0.19%	-0.021%
180	10.281	10.277	10.287	PH	-142	-1261	-0.11%	-0.012%
181	10.311	10.287	10.346	PH	312	-797	-0.07%	-0.008%
182	10.349	10.346	10.361	PH	-153	-1763	-0.15%	-0.017%
183	10.367	10.361	10.375	PH	-155	-1701	-0.14%	-0.016%
184	10.381	10.375	10.394	PH	-120	-2010	-0.17%	-0.019%
185	10.414	10.394	10.444	PH	132	-3011	-0.25%	-0.029%
186	10.449	10.444	10.472	PH	-127	-3082	-0.26%	-0.029%
187	10.477	10.472	10.517	PH	-206	-6822	-0.58%	-0.065%
188	10.524	10.517	10.536	PH	-233	-2888	-0.24%	-0.027%
189	10.541	10.536	10.556	PH	-187	-2913	-0.25%	-0.028%
190	10.560	10.556	10.577	PH	-180	-3182	-0.27%	-0.030%
191	10.582	10.577	10.602	PH	-240	-4048	-0.34%	-0.038%
192	10.620	10.602	10.629	PH	-169	-3505	-0.30%	-0.033%
193	10.657	10.629	10.686	PH	4065	36254	3.07%	0.345%
194	10.697	10.686	10.718	PH	49	-1056	-0.09%	-0.010%

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195	10.753	10.718	10.785	PH	247	-273	-0.02%	-0.003%
196	10.791	10.785	10.797	PH	-28	-729	-0.06%	-0.007%
197	10.799	10.797	10.827	PH	-87	-2789	-0.24%	-0.027%
198	10.872	10.827	10.891	PH	-49	-4874	-0.41%	-0.046%
199	10.937	10.891	10.973	PH	76	-2727	-0.23%	-0.026%
200	10.981	10.973	10.993	PH	-42	-1065	-0.09%	-0.010%
201	11.009	10.993	11.029	PH	272	1601	0.14%	0.015%
202	11.056	11.029	11.089	PH	382	1804	0.15%	0.017%
203	11.134	11.089	11.141	PH	178	1874	0.16%	0.018%
204	11.158	11.141	11.188	HH	455	5618	0.48%	0.053%
205	11.195	11.188	11.216	PH	81	91	0.01%	0.001%
206	11.226	11.216	11.262	PH	-2	-2049	-0.17%	-0.019%
207	11.315	11.262	11.324	PH	356	2821	0.24%	0.027%
208	11.338	11.324	11.385	HH	2645	42675	3.61%	0.406%
209	11.390	11.385	11.414	HH	529	6075	0.51%	0.058%
210	11.428	11.414	11.476	HH	435	7953	0.67%	0.076%
211	11.488	11.476	11.521	HH	217	1503	0.13%	0.014%
212	11.525	11.521	11.539	PH	3	-649	-0.05%	-0.006%
213	11.543	11.539	11.560	PH	-55	-992	-0.08%	-0.009%
214	11.572	11.560	11.580	PH	8	-351	-0.03%	-0.003%
215	11.584	11.580	11.655	PH	15	-3297	-0.28%	-0.031%
216	11.660	11.655	11.678	PH	-59	-1368	-0.12%	-0.013%
217	11.697	11.678	11.702	PH	59	-515	-0.04%	-0.005%
218	11.735	11.702	11.746	PH	237	2394	0.20%	0.023%
219	11.765	11.746	11.797	HH	575	7220	0.61%	0.069%
220	11.843	11.797	11.887	PH	676	15401	1.30%	0.146%
221	11.905	11.887	11.911	HH	246	2827	0.24%	0.027%
222	11.923	11.911	11.946	HH	398	5782	0.49%	0.055%
223	11.959	11.946	11.995	HH	366	4537	0.38%	0.043%
224	12.016	11.995	12.020	PH	103	693	0.06%	0.007%
225	12.039	12.020	12.067	HH	1120	20823	1.76%	0.198%
226	12.073	12.067	12.112	HH	729	12947	1.10%	0.123%
227	12.124	12.112	12.141	HH	421	5473	0.46%	0.052%
228	12.157	12.141	12.168	HH	426	5448	0.46%	0.052%
229	12.186	12.168	12.215	HH	826	13291	1.13%	0.126%
230	12.236	12.215	12.274	HH	628	13527	1.15%	0.129%
231	12.289	12.274	12.336	HH	288	7557	0.64%	0.072%
232	12.373	12.336	12.402	HH	289	7803	0.66%	0.074%
233	12.441	12.402	12.461	HH	717	15316	1.30%	0.146%
234	12.490	12.461	12.514	HH	827	18203	1.54%	0.173%
235	12.544	12.514	12.647	HH	1345	60331	5.11%	0.573%
236	12.693	12.647	12.791	HH	78617	1051473	89.02%	9.992%
237	12.806	12.791	12.903	HH	1694	73775	6.25%	0.701%
238	12.922	12.903	12.956	HH	863	23160	1.96%	0.220%
239	13.021	12.956	13.059	HH	1313	49400	4.18%	0.469%
240	13.085	13.059	13.120	HH	1665	38054	3.22%	0.362%
241	13.150	13.120	13.158	HH	2445	34136	2.89%	0.324%
242	13.170	13.158	13.202	HH	2442	41686	3.53%	0.396%
243	13.206	13.202	13.220	HH	732	7185	0.61%	0.068%
244	13.242	13.220	13.256	HH	705	14620	1.24%	0.139%
245	13.293	13.256	13.334	HH	865	34644	2.93%	0.329%
246	13.353	13.334	13.383	HH	1038	25902	2.19%	0.246%

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247	13.401	13.383	13.405	HH	886	11341	0.96%	0.108%
248	13.410	13.405	13.426	HH	896	10614	0.90%	0.101%
249	13.449	13.426	13.467	HH	2187	35301	2.99%	0.335%
250	13.488	13.467	13.523	HH	2234	49236	4.17%	0.468%
251	13.537	13.523	13.564	HH	1081	22157	1.88%	0.211%
252	13.578	13.564	13.594	HH	941	15954	1.35%	0.152%
253	13.598	13.594	13.607	HH	866	6762	0.57%	0.064%
254	13.650	13.607	13.675	HH	1122	36839	3.12%	0.350%
255	13.704	13.675	13.727	HH	1502	36246	3.07%	0.344%
256	13.750	13.727	13.768	HH	1600	34718	2.94%	0.330%
257	13.785	13.768	13.807	HH	1812	38655	3.27%	0.367%
258	13.812	13.807	13.856	HH	1601	44036	3.73%	0.418%
259	13.894	13.856	13.914	HH	1913	54519	4.62%	0.518%
260	13.933	13.914	14.019	HH	10659	214040	18.12%	2.034%
261	14.035	14.019	14.074	HH	2050	54145	4.58%	0.515%
262	14.109	14.074	14.131	HH	1565	48445	4.10%	0.460%
263	14.150	14.131	14.172	HH	1460	33815	2.86%	0.321%
264	14.178	14.172	14.187	HH	1328	11786	1.00%	0.112%
265	14.193	14.187	14.195	HH	1358	6903	0.58%	0.066%
266	14.244	14.195	14.269	HH	3079	81741	6.92%	0.777%
267	14.292	14.269	14.313	HH	2386	48891	4.14%	0.465%
268	14.319	14.313	14.333	HH	1585	17292	1.46%	0.164%
269	14.356	14.333	14.369	HH	1511	30693	2.60%	0.292%
270	14.377	14.369	14.408	HH	1447	32454	2.75%	0.308%
271	14.419	14.408	14.434	HH	1332	20145	1.71%	0.191%
272	14.451	14.434	14.464	HH	1361	24144	2.04%	0.229%
273	14.524	14.464	14.570	HH	1604	89114	7.54%	0.847%
274	14.579	14.570	14.591	HH	1483	18318	1.55%	0.174%
275	14.596	14.591	14.601	HH	1425	8120	0.69%	0.077%
276	14.653	14.601	14.661	HH	1761	53711	4.55%	0.510%
277	14.684	14.661	14.721	HH	3795	87796	7.43%	0.834%
278	14.730	14.721	14.749	HH	1780	28012	2.37%	0.266%
279	14.775	14.749	14.798	HH	1692	46268	3.92%	0.440%
280	14.815	14.798	14.837	HH	1803	39638	3.36%	0.377%
281	14.862	14.837	14.885	HH	2647	59497	5.04%	0.565%
282	14.890	14.885	14.895	HH	1809	10687	0.90%	0.102%
283	14.897	14.895	14.912	HH	1790	17523	1.48%	0.167%
284	14.936	14.912	14.942	HH	2005	34176	2.89%	0.325%
285	14.962	14.942	15.004	HH	2355	72885	6.17%	0.693%
286	15.025	15.004	15.047	HH	1887	46101	3.90%	0.438%
287	15.101	15.047	15.152	HH	2984	134441	11.38%	1.278%
288	15.198	15.152	15.233	HH	83121	1181162	100.00%	11.224%
289	15.245	15.233	15.279	HH	2709	62106	5.26%	0.590%
290	15.294	15.279	15.315	HH	2066	42919	3.63%	0.408%
291	15.339	15.315	15.349	HH	2697	45783	3.88%	0.435%
292	15.381	15.349	15.390	HH	3286	72880	6.17%	0.693%
293	15.402	15.390	15.428	HH	3627	65529	5.55%	0.623%
294	15.447	15.428	15.473	HH	2593	60912	5.16%	0.579%
295	15.505	15.473	15.534	HH	3288	89869	7.61%	0.854%
296	15.543	15.534	15.548	HH	2125	17997	1.52%	0.171%
297	15.599	15.548	15.640	HH	2466	119417	10.11%	1.135%
298	15.643	15.640	15.648	HH	2150	10172	0.86%	0.097%
299	15.651	15.648	15.661	HH	2147	16859	1.43%	0.160%

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300	15.664	15.661	15.679	HH	2197	23681	2.00%	0.225%
301	15.689	15.679	15.699	HH	2231	26119	2.21%	0.248%
302	15.727	15.699	15.733	HH	2298	45681	3.87%	0.434%
303	15.741	15.733	15.747	HH	2288	19048	1.61%	0.181%
304	15.783	15.747	15.866	HH	37674	696073	58.93%	6.615%
305	15.886	15.866	15.901	HH	2704	53540	4.53%	0.509%
306	15.946	15.901	15.973	HH	6856	185584	15.71%	1.764%
307	16.008	15.973	16.039	HH	5715	142784	12.09%	1.357%
308	16.056	16.039	16.092	HH	3122	88722	7.51%	0.843%
309	16.100	16.092	16.130	HH	2577	56394	4.77%	0.536%
310	16.163	16.130	16.167	HH	2879	58729	4.97%	0.558%
311	16.184	16.167	16.216	HH	2900	82125	6.95%	0.780%
312	16.245	16.216	16.281	HH	3403	115492	9.78%	1.097%
313	16.304	16.281	16.337	HH	4115	114487	9.69%	1.088%
314	16.341	16.337	16.347	HH	2980	17788	1.51%	0.169%
315	16.351	16.347	16.379	HH	3093	54420	4.61%	0.517%
316	16.395	16.379	16.409	HH	3039	54671	4.63%	0.520%
317	16.431	16.409	16.457	HH	5113	111405	9.43%	1.059%
318	16.492	16.457	16.507	HH	3374	96210	8.15%	0.914%
319	16.514	16.507	16.537	HH	3115	54709	4.63%	0.520%
320	16.569	16.537	16.581	HH	3197	79821	6.76%	0.759%
321	16.628	16.581	16.651	HH	3669	140276	11.88%	1.333%
322	16.655	16.651	16.678	HH	3413	54471	4.61%	0.518%
323	16.687	16.678	16.699	HH	3313	39618	3.35%	0.376%
324	16.744	16.699	16.774	HH	3764	159059	13.47%	1.511%
325	16.803	16.774	16.857	HH	10920	296367	25.09%	2.816%
326	16.882	16.857	16.891	HH	4823	87416	7.40%	0.831%
327	16.915	16.891	16.969	HH	6508	222234	18.81%	2.112%
328	17.000	16.969	17.024	HH	5693	149501	12.66%	1.421%
329	17.050	17.024	17.057	HH	4114	79269	6.71%	0.753%
330	17.075	17.057	17.091	HH	4248	83783	7.09%	0.796%
331	17.122	17.091	17.143	HH	4099	125111	10.59%	1.189%
332	17.167	17.143	17.204	HH	5399	171304	14.50%	1.628%
333	17.233	17.204	17.262	HH	5485	164081	13.89%	1.559%
334	17.288	17.262	17.329	HH	5710	190957	16.17%	1.815%
335	17.355	17.329	17.362	HH	4582	88780	7.52%	0.844%
336	17.389	17.362	17.409	HH	6734	153966	13.04%	1.463%
337	17.439	17.409	17.455	HH	6385	149133	12.63%	1.417%
338	17.466	17.455	17.492	HH	5706	114843	9.72%	1.091%
					Sum of corrected areas:		10523436	

FG061325.M Wed Jul 09 05:48:46 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-90	SDG No.:	Q2514
Lab Sample ID:	Q2514-10	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	91.6
Sample Wt/Vol:	30.01	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
FF016101.D	1	07/08/25 08:35	07/08/25 13:54	PB168751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	18300		184	1820	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	8.82		37 - 130	44%	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\FF070825\
Data File : FF016101.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 13:54
Operator : YP\AJ
Sample : Q2514-10
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-90

Integration File: autoint1.e
Quant Time: Jul 09 02:37:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.098	1064409	8.815 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

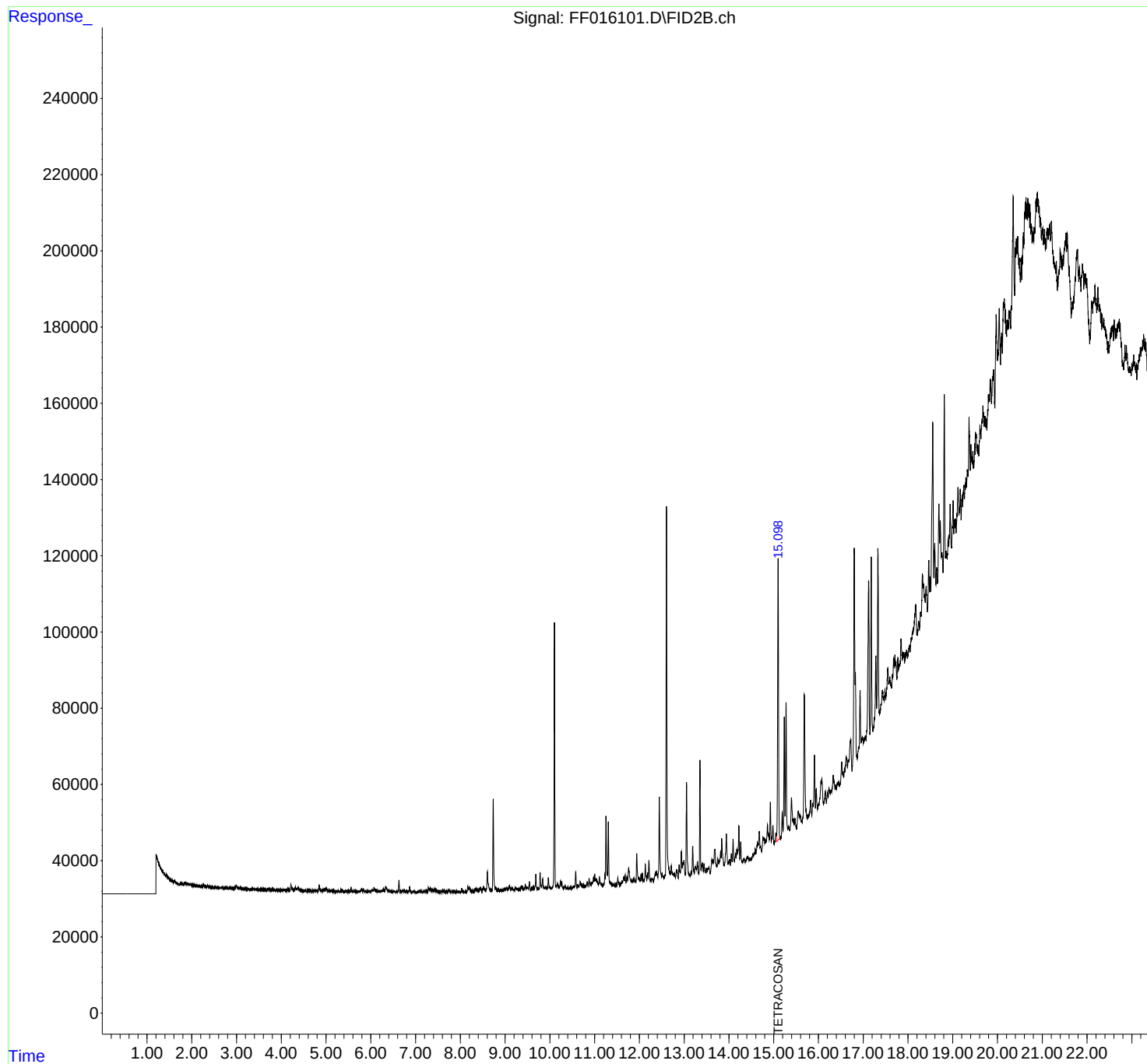
(m)=manual int.

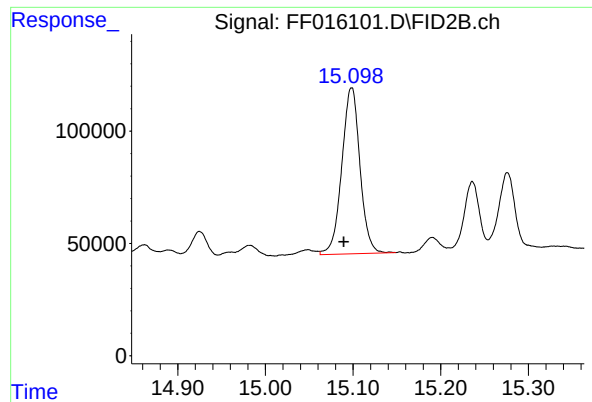
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
Data File : FF016101.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 13:54
Operator : YP\AJ
Sample : Q2514-10
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-90

Integration File: autoint1.e
Quant Time: Jul 09 02:37:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.098 min
Delta R.T.: 0.009 min
Response: 1064409
Conc: 8.82 ug/ml

Instrument :
FID_F
ClientSampleId :
TP-90

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
 Data File : FF016101.D
 Signal(s) : FID2B.ch
 Acq On : 08 Jul 2025 13:54
 Sample : Q2514-10
 Misc :
 ALS Vial : 72 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
 Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.478	4.461	4.509	HH	250	4611	0.14%	0.007%
2	4.527	4.509	4.547	HH	212	3182	0.09%	0.005%
3	4.569	4.547	4.589	HH	162	2400	0.07%	0.003%
4	4.618	4.589	4.638	HH	352	4678	0.14%	0.007%
5	4.650	4.638	4.673	HH	176	2393	0.07%	0.003%
6	4.695	4.673	4.717	HH	161	2007	0.06%	0.003%
7	4.729	4.717	4.762	HH	138	1513	0.04%	0.002%
8	4.781	4.762	4.801	PH	364	3551	0.11%	0.005%
9	4.810	4.801	4.824	PH	102	315	0.01%	0.000%
10	4.845	4.824	4.916	PH	1584	24455	0.73%	0.035%
11	4.929	4.916	4.954	HH	297	5870	0.17%	0.009%
12	5.014	4.954	5.052	HH	557	19271	0.57%	0.028%
13	5.069	5.052	5.077	PH	60	437	0.01%	0.001%
14	5.103	5.077	5.152	PH	121	1875	0.06%	0.003%
15	5.162	5.152	5.186	PH	40	-503	-0.01%	-0.001%
16	5.193	5.186	5.215	PH	-6	-1311	-0.04%	-0.002%
17	5.234	5.215	5.263	PH	36	-740	-0.02%	-0.001%
18	5.273	5.263	5.301	PH	-3	-1211	-0.04%	-0.002%
19	5.333	5.301	5.351	PH	332	1858	0.06%	0.003%
20	5.360	5.351	5.393	HH	113	325	0.01%	0.000%
21	5.411	5.393	5.419	PH	1	-1129	-0.03%	-0.002%
22	5.432	5.419	5.482	PH	28	-3507	-0.10%	-0.005%
23	5.504	5.482	5.539	PH	160	-1207	-0.04%	-0.002%
24	5.560	5.539	5.582	PH	984	7954	0.24%	0.012%
25	5.597	5.582	5.614	PH	34	-370	-0.01%	-0.001%
26	5.635	5.614	5.647	PH	-3	-1421	-0.04%	-0.002%
27	5.661	5.647	5.682	PH	-36	-1804	-0.05%	-0.003%
28	5.700	5.682	5.740	PH	-52	-4298	-0.13%	-0.006%
29	5.789	5.740	5.817	PH	607	6456	0.19%	0.009%
30	5.832	5.817	5.871	PH	625	4903	0.15%	0.007%
31	5.875	5.871	5.903	PH	47	-1611	-0.05%	-0.002%
32	5.923	5.903	5.941	PH	71	-1740	-0.05%	-0.003%
33	5.953	5.941	5.985	PH	-81	-3481	-0.10%	-0.005%
34	6.028	5.985	6.047	PH	538	3744	0.11%	0.005%
35	6.071	6.047	6.104	PH	942	11658	0.35%	0.017%
36	6.122	6.104	6.160	PH	437	3223	0.10%	0.005%

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37	6.169	6.160	6.185	PH	-31	-1208	-0.04%	-0.002%
38	6.197	6.185	6.214	PH	-54	-1598	-0.05%	-0.002%
39	6.230	6.214	6.248	PH	168	426	0.01%	0.001%
40	6.267	6.248	6.279	PH	397	2899	0.09%	0.004%
41	6.291	6.279	6.314	HH	508	5159	0.15%	0.007%
42	6.332	6.314	6.385	PH	1152	22360	0.66%	0.032%
43	6.400	6.385	6.429	PH	226	592	0.02%	0.001%
44	6.437	6.429	6.459	PH	-7	-2080	-0.06%	-0.003%
45	6.477	6.459	6.490	PH	-118	-2476	-0.07%	-0.004%
46	6.507	6.490	6.546	PH	130	-3084	-0.09%	-0.004%
47	6.582	6.546	6.601	PH	-64	-4998	-0.15%	-0.007%
48	6.628	6.601	6.666	PH	2751	25106	0.74%	0.036%
49	6.683	6.666	6.701	PH	76	-1079	-0.03%	-0.002%
50	6.709	6.701	6.720	PH	102	637	0.02%	0.001%
51	6.732	6.720	6.769	HH	90	-72	-0.00%	-0.000%
52	6.794	6.769	6.834	PH	51	-2962	-0.09%	-0.004%
53	6.865	6.834	6.904	PH	1121	7659	0.23%	0.011%
54	6.911	6.904	6.934	PH	-180	-3592	-0.11%	-0.005%
55	6.949	6.934	6.968	PH	-38	-3397	-0.10%	-0.005%
56	6.981	6.968	7.034	PH	-135	-9843	-0.29%	-0.014%
57	7.072	7.034	7.091	PH	-160	-8078	-0.24%	-0.012%
58	7.115	7.091	7.152	PH	60	-4262	-0.13%	-0.006%
59	7.167	7.152	7.178	PH	-80	-2581	-0.08%	-0.004%
60	7.202	7.178	7.219	PH	70	-2440	-0.07%	-0.004%
61	7.247	7.219	7.264	PH	138	-1482	-0.04%	-0.002%
62	7.286	7.264	7.310	PH	1004	12430	0.37%	0.018%
63	7.330	7.310	7.355	HH	648	11759	0.35%	0.017%
64	7.381	7.355	7.409	HH	394	8427	0.25%	0.012%
65	7.428	7.409	7.444	HH	480	5755	0.17%	0.008%
66	7.459	7.444	7.504	HH	441	1611	0.05%	0.002%
67	7.519	7.504	7.547	PH	0	-4353	-0.13%	-0.006%
68	7.569	7.547	7.592	PH	128	-3379	-0.10%	-0.005%
69	7.610	7.592	7.629	PH	410	1406	0.04%	0.002%
70	7.641	7.629	7.675	PH	-3	-3375	-0.10%	-0.005%
71	7.688	7.675	7.704	PH	-80	-2461	-0.07%	-0.004%
72	7.745	7.704	7.790	PH	284	-2632	-0.08%	-0.004%
73	7.798	7.790	7.809	PH	-126	-1644	-0.05%	-0.002%
74	7.820	7.809	7.835	PH	-103	-2727	-0.08%	-0.004%
75	7.870	7.835	7.898	PH	-39	-7062	-0.21%	-0.010%
76	7.918	7.898	7.943	PH	-66	-3728	-0.11%	-0.005%
77	7.958	7.943	8.006	PH	-57	-7266	-0.22%	-0.011%
78	8.031	8.006	8.068	PH	736	1564	0.05%	0.002%
79	8.077	8.068	8.095	PH	-123	-3079	-0.09%	-0.004%
80	8.120	8.095	8.139	PH	-93	-4783	-0.14%	-0.007%
81	8.166	8.139	8.186	PH	1113	13747	0.41%	0.020%
82	8.201	8.186	8.257	HH	1212	16862	0.50%	0.024%
83	8.272	8.257	8.294	PH	-5	-1381	-0.04%	-0.002%
84	8.357	8.294	8.387	PH	531	14324	0.42%	0.021%
85	8.396	8.387	8.414	HH	262	3254	0.10%	0.005%
86	8.451	8.414	8.484	HH	1006	16007	0.47%	0.023%
87	8.517	8.484	8.539	PH	1169	19508	0.58%	0.028%
88	8.548	8.539	8.566	HH	517	6849	0.20%	0.010%
89	8.604	8.566	8.671	HH	5139	93983	2.79%	0.136%

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90	8.682	8.671	8.697	HH	338	3693	0.11%	0.005%
91	8.735	8.697	8.777	HH	24122	289682	8.59%	0.420%
92	8.788	8.777	8.837	HH	954	19132	0.57%	0.028%
93	8.851	8.837	8.884	HH	444	6555	0.19%	0.010%
94	8.899	8.884	8.912	HH	283	2743	0.08%	0.004%
95	8.917	8.912	8.938	HH	183	2429	0.07%	0.004%
96	8.999	8.938	9.019	HH	549	16355	0.49%	0.024%
97	9.033	9.019	9.066	HH	837	16126	0.48%	0.023%
98	9.097	9.066	9.141	HH	1395	36110	1.07%	0.052%
99	9.161	9.141	9.184	HH	631	13788	0.41%	0.020%
100	9.194	9.184	9.212	HH	393	5299	0.16%	0.008%
101	9.233	9.212	9.241	HH	747	9341	0.28%	0.014%
102	9.250	9.241	9.266	HH	736	10011	0.30%	0.015%
103	9.278	9.266	9.297	HH	629	9756	0.29%	0.014%
104	9.308	9.297	9.329	HH	549	8220	0.24%	0.012%
105	9.367	9.329	9.416	HH	1505	41193	1.22%	0.060%
106	9.452	9.416	9.473	HH	1768	32663	0.97%	0.047%
107	9.489	9.473	9.522	HH	1004	24778	0.73%	0.036%
108	9.544	9.522	9.574	HH	2461	36874	1.09%	0.053%
109	9.595	9.574	9.617	HH	1113	18507	0.55%	0.027%
110	9.635	9.617	9.652	HH	1425	18777	0.56%	0.027%
111	9.686	9.652	9.726	HH	4472	70214	2.08%	0.102%
112	9.743	9.726	9.760	HH	807	13426	0.40%	0.019%
113	9.783	9.760	9.814	HH	4836	70208	2.08%	0.102%
114	9.839	9.814	9.891	HH	3229	70020	2.08%	0.102%
115	9.905	9.891	9.935	HH	1212	24974	0.74%	0.036%
116	9.966	9.935	10.001	HH	3511	62930	1.87%	0.091%
117	10.011	10.001	10.044	HH	960	21889	0.65%	0.032%
118	10.102	10.044	10.131	HH	70756	767107	22.75%	1.113%
119	10.138	10.131	10.149	HH	1346	14524	0.43%	0.021%
120	10.168	10.149	10.191	HH	1899	36339	1.08%	0.053%
121	10.235	10.191	10.252	HH	2527	54692	1.62%	0.079%
122	10.266	10.252	10.296	HH	2575	39539	1.17%	0.057%
123	10.338	10.296	10.374	HH	1413	44461	1.32%	0.065%
124	10.403	10.374	10.436	HH	915	28815	0.85%	0.042%
125	10.449	10.436	10.474	HH	1014	18840	0.56%	0.027%
126	10.487	10.474	10.502	HH	962	13674	0.41%	0.020%
127	10.519	10.502	10.528	HH	1164	14470	0.43%	0.021%
128	10.541	10.528	10.553	HH	1360	18489	0.55%	0.027%
129	10.577	10.553	10.606	HH	5122	78300	2.32%	0.114%
130	10.623	10.606	10.647	HH	1712	34152	1.01%	0.050%
131	10.679	10.647	10.696	HH	2277	51209	1.52%	0.074%
132	10.710	10.696	10.732	HH	1912	33499	0.99%	0.049%
133	10.749	10.732	10.782	HH	1611	39812	1.18%	0.058%
134	10.798	10.782	10.811	HH	1416	22841	0.68%	0.033%
135	10.837	10.811	10.856	HH	2367	51517	1.53%	0.075%
136	10.877	10.856	10.896	HH	3337	57123	1.69%	0.083%
137	10.908	10.896	10.919	HH	2053	26163	0.78%	0.038%
138	10.932	10.919	10.944	HH	2314	31935	0.95%	0.046%
139	10.977	10.944	10.989	HH	3626	74054	2.20%	0.107%
140	11.002	10.989	11.037	HH	4445	92951	2.76%	0.135%
141	11.047	11.037	11.089	HH	3053	74649	2.21%	0.108%

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142	11.106	11.089	11.167	HH	3733	105758	3.14%	0.153%
143	11.172	11.167	11.182	HH	1506	13068	0.39%	0.019%
144	11.253	11.182	11.282	HH	19623	340480	10.10%	0.494%
145	11.305	11.282	11.392	HH	18195	320619	9.51%	0.465%
146	11.402	11.392	11.424	HH	1821	32756	0.97%	0.048%
147	11.430	11.424	11.446	HH	1699	21037	0.62%	0.031%
148	11.484	11.446	11.498	HH	1734	51211	1.52%	0.074%
149	11.518	11.498	11.562	HH	3496	86902	2.58%	0.126%
150	11.611	11.562	11.622	HH	2528	73936	2.19%	0.107%
151	11.649	11.622	11.665	HH	3793	78808	2.34%	0.114%
152	11.681	11.665	11.700	HH	4282	68308	2.03%	0.099%
153	11.723	11.700	11.739	HH	3459	70588	2.09%	0.102%
154	11.760	11.739	11.814	HH	6068	183532	5.44%	0.266%
155	11.834	11.814	11.856	HH	3047	66549	1.97%	0.097%
156	11.875	11.856	11.898	HH	3398	74973	2.22%	0.109%
157	11.912	11.898	11.924	HH	2710	40708	1.21%	0.059%
158	11.941	11.924	12.016	HH	9867	246992	7.32%	0.358%
159	12.036	12.016	12.051	HH	4445	74443	2.21%	0.108%
160	12.067	12.051	12.086	HH	4711	74182	2.20%	0.108%
161	12.100	12.086	12.112	HH	3090	46655	1.38%	0.068%
162	12.133	12.112	12.167	HH	7040	149627	4.44%	0.217%
163	12.184	12.167	12.197	HH	4890	71362	2.12%	0.104%
164	12.213	12.197	12.266	HH	7971	177451	5.26%	0.257%
165	12.284	12.266	12.312	HH	3346	83112	2.46%	0.121%
166	12.352	12.312	12.362	HH	4710	109855	3.26%	0.159%
167	12.377	12.362	12.411	HH	4958	130507	3.87%	0.189%
168	12.445	12.411	12.494	HH	24662	455200	13.50%	0.660%
169	12.508	12.494	12.526	HH	4752	80875	2.40%	0.117%
170	12.536	12.526	12.554	HH	3941	62751	1.86%	0.091%
171	12.605	12.554	12.696	HH	100925	1567776	46.49%	2.274%
172	12.712	12.696	12.752	HH	6692	175565	5.21%	0.255%
173	12.761	12.752	12.772	HH	4418	51709	1.53%	0.075%
174	12.782	12.772	12.807	HH	4459	86024	2.55%	0.125%
175	12.829	12.807	12.867	HH	5705	164704	4.88%	0.239%
176	12.888	12.867	12.911	HH	6953	139791	4.15%	0.203%
177	12.937	12.911	12.956	HH	10401	201752	5.98%	0.293%
178	12.972	12.956	12.981	HH	7403	106145	3.15%	0.154%
179	12.995	12.981	13.029	HH	7980	179772	5.33%	0.261%
180	13.054	13.029	13.137	HH	28429	589872	17.49%	0.856%
181	13.157	13.137	13.166	HH	4935	79396	2.35%	0.115%
182	13.191	13.166	13.226	HH	11802	253056	7.50%	0.367%
183	13.249	13.226	13.281	HH	6402	191960	5.69%	0.278%
184	13.297	13.281	13.327	HH	7740	168872	5.01%	0.245%
185	13.354	13.327	13.378	HH	34507	469214	13.91%	0.681%
186	13.408	13.378	13.427	HH	7280	188713	5.60%	0.274%
187	13.444	13.427	13.471	HH	7242	155851	4.62%	0.226%
188	13.492	13.471	13.509	HH	5979	124122	3.68%	0.180%
189	13.526	13.509	13.536	HH	5960	91862	2.72%	0.133%
190	13.552	13.536	13.581	HH	6208	151472	4.49%	0.220%
191	13.620	13.581	13.638	HH	8062	230186	6.83%	0.334%
192	13.651	13.638	13.661	HH	7816	106083	3.15%	0.154%
193	13.685	13.661	13.731	HH	11110	357354	10.60%	0.518%
194	13.753	13.731	13.770	HH	8448	175842	5.21%	0.255%

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195	13.785	13.770	13.793	HH	7873	107585	3.19%	0.156%
196	13.814	13.793	13.827	HH	10290	187300	5.55%	0.272%
197	13.839	13.827	13.896	HH	13677	385981	11.45%	0.560%
198	13.942	13.896	13.978	HH	15075	485168	14.39%	0.704%
199	14.013	13.978	14.031	HH	8291	237985	7.06%	0.345%
200	14.053	14.031	14.071	HH	9840	202634	6.01%	0.294%
201	14.092	14.071	14.115	HH	13694	268197	7.95%	0.389%
202	14.147	14.115	14.160	HH	9838	236948	7.03%	0.344%
203	14.175	14.160	14.188	HH	10811	168560	5.00%	0.245%
204	14.222	14.188	14.242	HH	17155	395383	11.73%	0.574%
205	14.262	14.242	14.293	HH	12956	298114	8.84%	0.432%
206	14.336	14.293	14.359	HH	8580	316423	9.38%	0.459%
207	14.404	14.359	14.417	HH	8973	290521	8.62%	0.421%
208	14.423	14.417	14.444	HH	8873	137990	4.09%	0.200%
209	14.474	14.444	14.494	HH	8453	249067	7.39%	0.361%
210	14.531	14.494	14.549	HH	9623	295329	8.76%	0.428%
211	14.588	14.549	14.604	HH	10892	331252	9.82%	0.481%
212	14.637	14.604	14.651	HH	12478	326405	9.68%	0.474%
213	14.678	14.651	14.701	HH	15578	398387	11.81%	0.578%
214	14.707	14.701	14.731	HH	11731	200432	5.94%	0.291%
215	14.762	14.731	14.775	HH	14184	330426	9.80%	0.479%
216	14.785	14.775	14.801	HH	14006	210564	6.24%	0.305%
217	14.815	14.801	14.832	HH	13281	248060	7.36%	0.360%
218	14.862	14.832	14.881	HH	17401	436507	12.94%	0.633%
219	14.890	14.881	14.903	HH	15074	196737	5.83%	0.285%
220	14.925	14.903	14.946	HH	23276	453585	13.45%	0.658%
221	14.982	14.946	15.010	HH	17159	552222	16.38%	0.801%
222	15.048	15.010	15.062	HH	15194	434749	12.89%	0.631%
223	15.098	15.062	15.161	HH	87379	1863224	55.25%	2.703%
224	15.190	15.161	15.211	HH	20697	507294	15.04%	0.736%
225	15.236	15.211	15.254	HH	45669	758746	22.50%	1.101%
226	15.276	15.254	15.315	HH	49546	1012183	30.02%	1.468%
227	15.330	15.315	15.361	HH	16830	452094	13.41%	0.656%
228	15.398	15.361	15.429	HH	24415	817075	24.23%	1.185%
229	15.443	15.429	15.458	HH	19001	321770	9.54%	0.467%
230	15.475	15.458	15.514	HH	18822	588485	17.45%	0.854%
231	15.548	15.514	15.568	HH	20855	625081	18.54%	0.907%
232	15.576	15.568	15.619	HH	20060	597260	17.71%	0.866%
233	15.685	15.619	15.743	HH	51522	1953036	57.92%	2.833%
234	15.755	15.743	15.767	HH	19741	284598	8.44%	0.413%
235	15.825	15.767	15.851	HH	23938	1053744	31.25%	1.529%
236	15.871	15.851	15.882	HH	22969	414415	12.29%	0.601%
237	15.911	15.882	15.933	HH	35721	827981	24.55%	1.201%
238	15.950	15.933	15.982	HH	26866	704888	20.90%	1.023%
239	16.075	15.982	16.115	HH	29582	2011362	59.65%	2.918%
240	16.154	16.115	16.178	HH	26214	913832	27.10%	1.326%
241	16.202	16.178	16.217	HH	25969	578880	17.17%	0.840%
242	16.236	16.217	16.254	HH	27030	587476	17.42%	0.852%
243	16.273	16.254	16.292	HH	26382	601056	17.82%	0.872%
244	16.330	16.292	16.371	HH	30454	1321722	39.20%	1.917%
245	16.386	16.371	16.404	HH	27731	550432	16.32%	0.799%
246	16.424	16.404	16.432	HH	28504	464707	13.78%	0.674%

					rteres			
247	16.446	16.432	16.467	HH	28745	592746	17.58%	0.860%
248	16.522	16.467	16.539	HH	33977	1305463	38.71%	1.894%
249	16.550	16.539	16.565	HH	31407	478284	14.18%	0.694%
250	16.583	16.565	16.594	HH	32077	538018	15.96%	0.781%
251	16.619	16.594	16.649	HH	35169	1130005	33.51%	1.639%
252	16.665	16.649	16.676	HH	34353	530321	15.73%	0.769%
253	16.722	16.676	16.750	HH	39749	1617115	47.96%	2.346%
254	16.800	16.750	16.864	HH	90123	3372071	100.00%	4.892%
255	16.930	16.864	16.952	HH	52674	2145684	63.63%	3.113%
256	16.986	16.952	17.001	HH	40313	1167028	34.61%	1.693%
257	17.050	17.001	17.063	HH	40599	1484521	44.02%	2.154%
258	17.121	17.063	17.149	HH	81082	2806554	83.23%	4.072%
259	17.179	17.149	17.219	HH	87730	2323935	68.92%	3.371%
260	17.281	17.219	17.300	HH	61662	2376766	70.48%	3.448%
261	17.329	17.300	17.370	HH	89187	2536254	75.21%	3.679%
262	17.430	17.370	17.454	HH	52561	2515717	74.60%	3.650%
263	17.463	17.454	17.471	HH	50981	511325	15.16%	0.742%
264	17.487	17.471	17.501	HHA	52924	948722	28.13%	1.376%
					Sum of corrected areas:	68930133		

FF061325.M Wed Jul 09 04:17:19 2025



CALIBRATION SUMMARY

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE

SDG No.: Q2514

Calibration Sequence : FF061325			Test : Diesel Range Organics	
Concentration	(PPM)	Area Count	Reference Factor	File ID
1000		128762116	128762	FF015964.D
500		64295722	128591	FF015965.D
200		27169561	135848	FF015966.D
100		13526499	135265	FF015967.D
50		7306219	146124	FF015968.D
AVG RF : 134918			% RSD : 5.299	AVG RT : 15.0944

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE

SDG No.: Q2514

Calibration Sequence : FG061325		Test : Diesel Range Organics	
Concentration (PPM)	Area Count	Reference Factor	File ID
1000	121978597	121979	FG016063.D
500	61365081	122730	FG016064.D
200	26234834	131174	FG016065.D
100	13396741	133967	FG016066.D
50	7145066	142901	FG016067.D
AVG RF : 130550		% RSD : 6.625	AVG RT : 15.1972

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE

SDG No.: Q2514

Calibration Sequence : FG070925		Test : Diesel Range Organics	
Concentration (PPM)	Area Count	Reference Factor	File ID
1000	107457449	107457	FG016264.D
500	53927299	107855	FG016265.D
200	23004292	115021	FG016266.D
100	12319443	123194	FG016267.D
50	6076250	121525	FG016268.D
AVG RF : 115010		% RSD : 6.414	AVG RT : 15.201

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2514
DataFile: FF016098.D Analyst Name: YP\AJ Analyst Date: 07-08-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	70748965	141498	134918	4.877

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
 Data File : FF016098.D
 Signal(s) : FID2B.ch
 Acq On : 08 Jul 2025 11:55
 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: Jul 09 02:36:41 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
 Quant Title :
 QLast Update : Fri Jun 13 15:23:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.098	6183722	51.213 ug/ml
Target Compounds			
2) N-DECANE	4.618	7086151	54.084 ug/ml
3) N-DODECANE	6.795	7210002	54.146 ug/ml
4) N-TETRADECANE	8.628	7198626	53.712 ug/ml
5) N-HEXADECANE	10.237	7189817	53.236 ug/ml
6) N-OCTADECANE	11.683	7274256	52.471 ug/ml
7) N-EICOSANE	12.995	7257278	51.972 ug/ml
8) N-DOCOSANE	14.197	7006697	51.570 ug/ml
10) N-TETRACOSANE	15.303	6949508	51.277 ug/ml
11) N-HEXACOSANE	16.327	6848611	51.019 ug/ml
12) N-OCTACOSANE	17.279	6728019	50.963 ug/ml

(f)=RT Delta > 1/2 Window

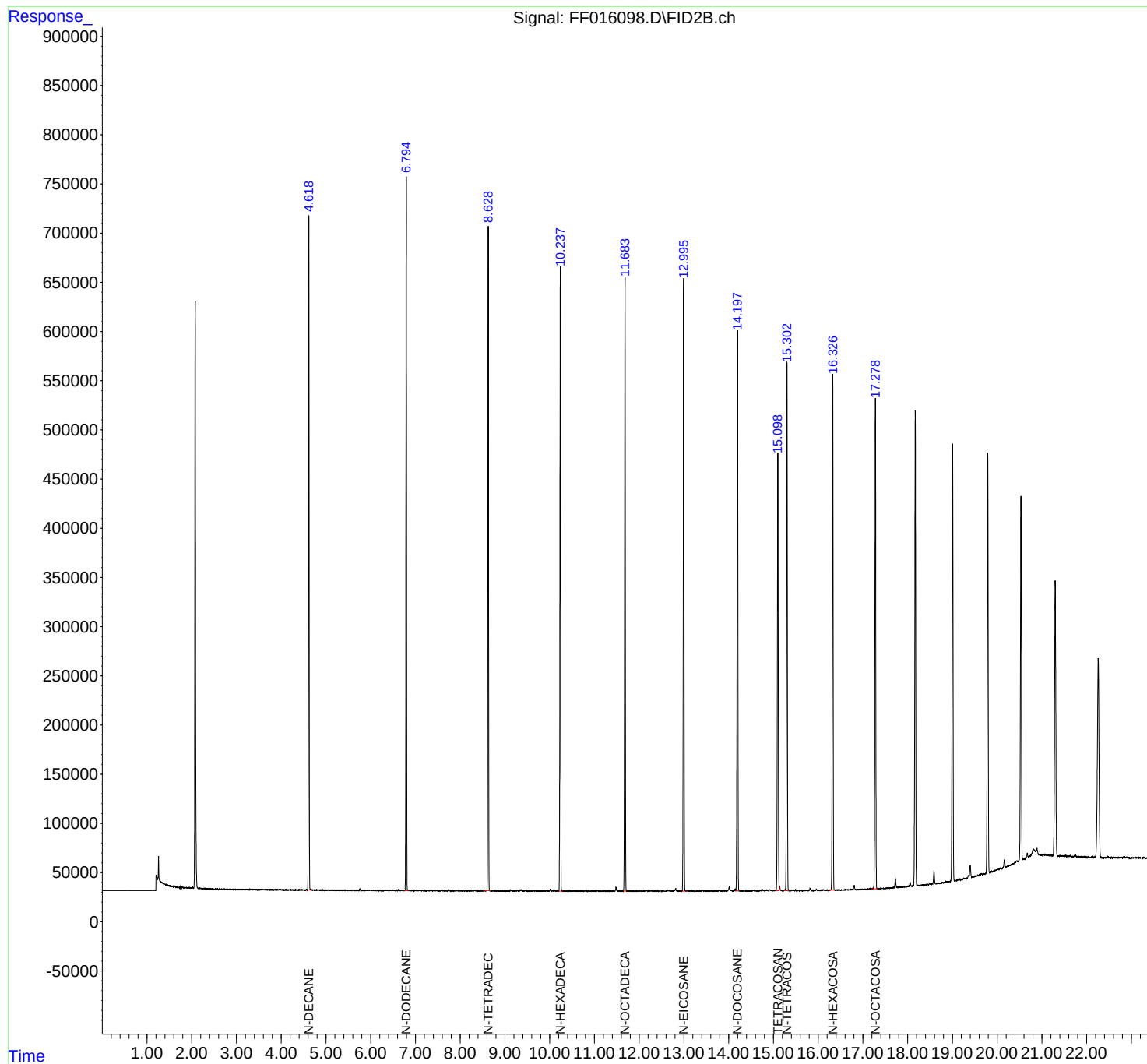
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
Data File : FF016098.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 11:55
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: Jul 09 02:36:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
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\FF070825\
Data File : FF016098.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 11:55
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.618	4.582	4.674	BB	685179	7086151	97.41%	9.211%
2	6.795	6.756	6.849	BB	725156	7210002	99.12%	9.372%
3	8.628	8.524	8.677	BB	671277	7198626	98.96%	9.357%
4	10.237	10.199	10.292	BB	634528	7189817	98.84%	9.346%
5	11.683	11.639	11.718	BB	622494	7274256	100.00%	9.455%
6	12.995	12.954	13.066	BB	623697	7257278	99.77%	9.433%
7	14.197	14.160	14.236	VB	569842	7006697	96.32%	9.108%
8	15.098	15.054	15.130	BV	442438	6183722	85.01%	8.038%
9	15.303	15.236	15.352	BB	537732	6949508	95.54%	9.033%
10	16.327	16.234	16.366	BB	523751	6848611	94.15%	8.902%
11	17.279	17.189	17.336	BB	498174	6728019	92.49%	8.745%
Sum of corrected areas:						76932687		

FF061325.M Wed Jul 09 04:14:45 2025

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2514
DataFile: FF016106.D Analyst Name: YP\AJ Analyst Date: 07-08-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65780168	131560	134918	2.489

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
 Data File : FF016106.D
 Signal(s) : FID2B.ch
 Acq On : 08 Jul 2025 16:54
 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: Jul 09 02:38:41 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
 Quant Title :
 QLast Update : Fri Jun 13 15:23:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.106	5681526	47.054 ug/ml
Target Compounds			
2) N-DECANE	4.620	6940824	52.974 ug/ml
3) N-DODECANE	6.799	6850456	51.446 ug/ml
4) N-TETRADECANE	8.633	6709297	50.060 ug/ml
5) N-HEXADECANE	10.242	6631791	49.104 ug/ml
6) N-OCTADECANE	11.690	6679320	48.180 ug/ml
7) N-EICOSANE	13.003	6656059	47.667 ug/ml
8) N-DOCOSANE	14.204	6438849	47.391 ug/ml
10) N-TETRACOSANE	15.312	6394827	47.184 ug/ml
11) N-HEXACOSANE	16.335	6293585	46.884 ug/ml
12) N-OCTACOSANE	17.288	6185160	46.851 ug/ml

(f)=RT Delta > 1/2 Window

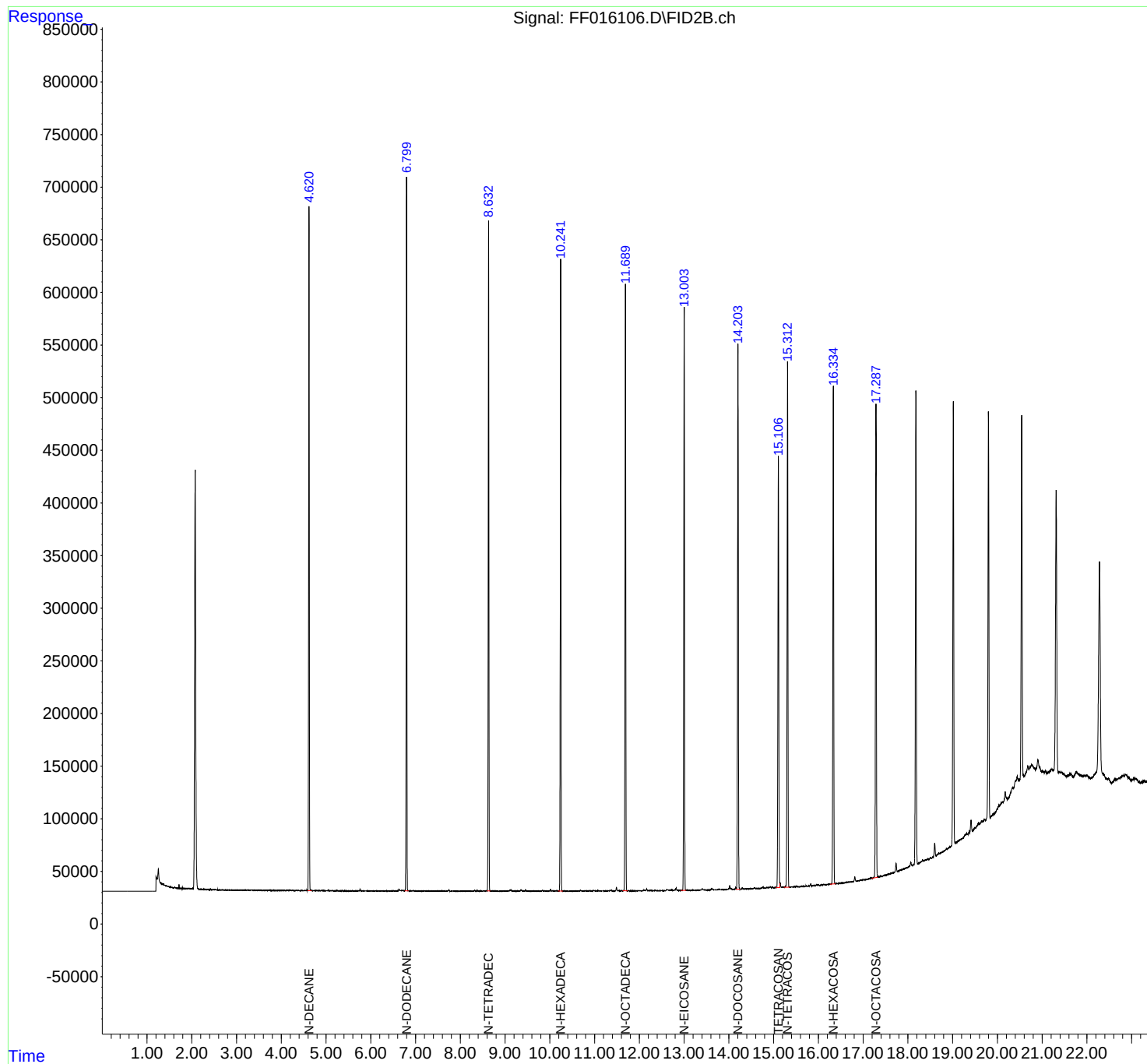
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
Data File : FF016106.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 16:54
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: Jul 09 02:38:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
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\FF070825\
Data File : FF016106.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 16:54
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.620	4.586	4.681	BB	649764	6940824	100.00%	9.713%
2	6.799	6.761	6.842	BB	678514	6850456	98.70%	9.586%
3	8.633	8.596	8.672	BB	636864	6709297	96.66%	9.389%
4	10.242	10.186	10.292	BB	599576	6631791	95.55%	9.280%
5	11.690	11.632	11.741	BB	575569	6679320	96.23%	9.347%
6	13.003	12.924	13.047	BV	551779	6656059	95.90%	9.314%
7	14.204	14.168	14.251	VB	517568	6438849	92.77%	9.010%
8	15.106	15.051	15.139	BV	409250	5681526	81.86%	7.950%
9	15.312	15.227	15.362	BB	501164	6394827	92.13%	8.949%
10	16.335	16.259	16.382	BB	472750	6293585	90.67%	8.807%
11	17.288	17.194	17.327	BV	449914	6185160	89.11%	8.655%
Sum of corrected areas:						71461695		

FF061325.M Wed Jul 09 04:15:45 2025

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2514
DataFile: FF016114.D Analyst Name: YP\AJ Analyst Date: 07-08-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65515978	131032	134918	2.88

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
 Data File : FF016114.D
 Signal(s) : FID2B.ch
 Acq On : 08 Jul 2025 21:53
 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: Jul 09 02:40:50 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
 Quant Title :
 QLast Update : Fri Jun 13 15:23:30 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.109	5714023	47.323 ug/ml
Target Compounds			
2) N-DECANE	4.622	6698164	51.122 ug/ml
3) N-DODECANE	6.801	6687033	50.219 ug/ml
4) N-TETRADECANE	8.634	6630453	49.472 ug/ml
5) N-HEXADECANE	10.245	6618985	49.009 ug/ml
6) N-OCTADECANE	11.692	6710305	48.403 ug/ml
7) N-EICOSANE	13.006	6708993	48.046 ug/ml
8) N-DOCOSANE	14.207	6490119	47.768 ug/ml
10) N-TETRACOSANE	15.315	6444552	47.551 ug/ml
11) N-HEXACOSANE	16.340	6322525	47.100 ug/ml
12) N-OCTACOSANE	17.292	6204849	47.000 ug/ml

(f)=RT Delta > 1/2 Window

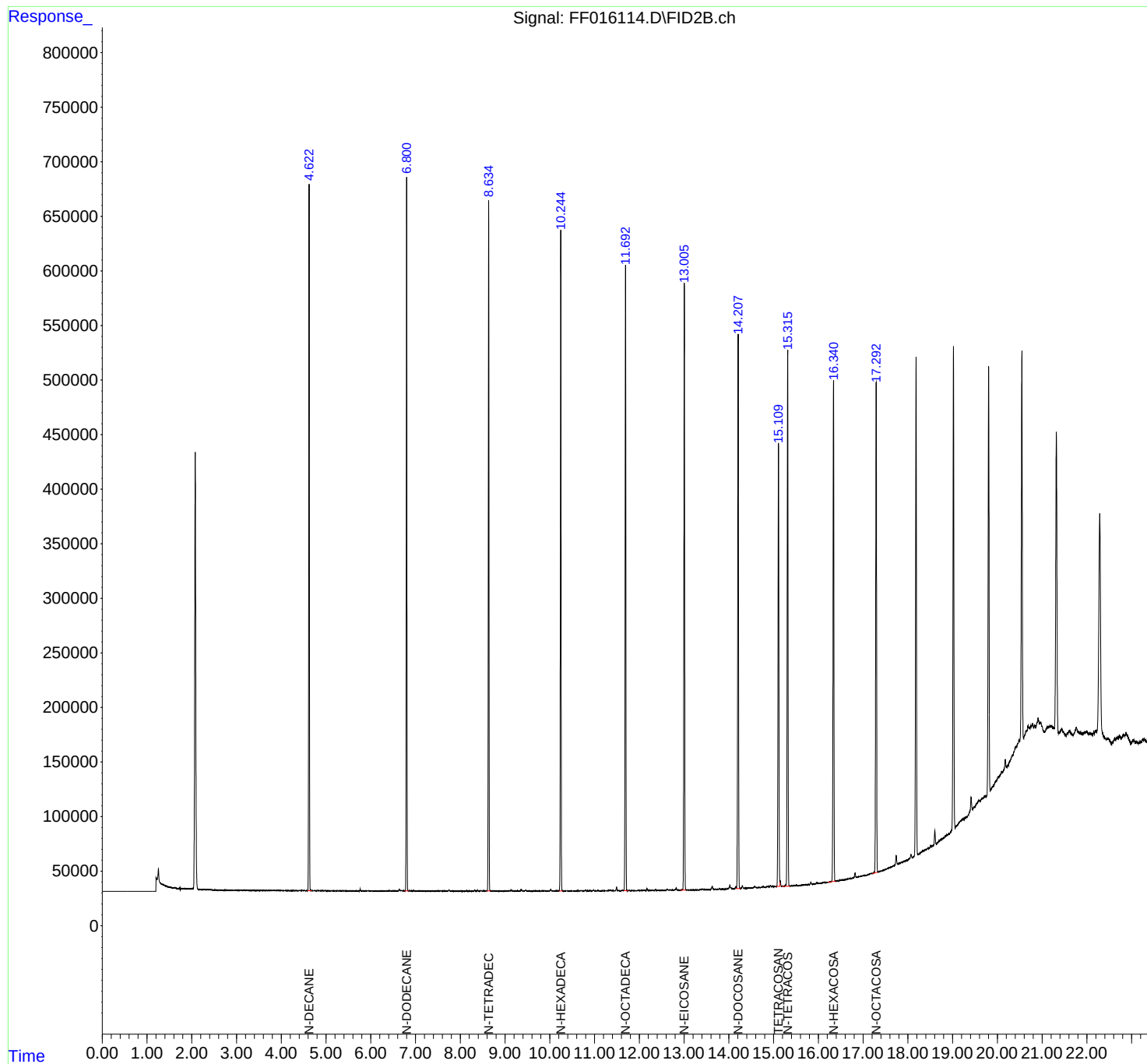
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
Data File : FF016114.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 21:53
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: Jul 09 02:40:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
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\FF070825\
Data File : FF016114.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 21:53
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.622	4.585	4.680	BB	647911	6698164	99.82%	9.404%
2	6.801	6.762	6.849	BB	654036	6687033	99.65%	9.388%
3	8.634	8.592	8.679	BB	632161	6630453	98.81%	9.309%
4	10.245	10.209	10.292	BB	604787	6618985	98.64%	9.292%
5	11.692	11.649	11.747	BB	572725	6710305	100.00%	9.421%
6	13.006	12.914	13.045	BV	557711	6708993	99.98%	9.419%
7	14.207	14.171	14.265	VB	507157	6490119	96.72%	9.111%
8	15.109	15.054	15.141	BV	405598	5714023	85.15%	8.022%
9	15.315	15.187	15.372	BB	492121	6444552	96.04%	9.048%
10	16.340	16.217	16.385	BB	460650	6322525	94.22%	8.876%
11	17.292	17.210	17.328	BV	449182	6204849	92.47%	8.711%
Sum of corrected areas:						71230002		

FF061325.M Wed Jul 09 04:16:21 2025

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2514
DataFile: FG016245.D Analyst Name: YP\AJ Analyst Date: 07-08-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	61154300	122309	130550	6.313

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
 Data File : FG016245.D
 Signal(s) : FID1A.ch
 Acq On : 08 Jul 2025 14:24
 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: Sample.e
 Quant Time: Jul 09 03:13:33 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
 Quant Title :
 QLast Update : Fri Jun 13 12:34:28 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.205	5431462	46.304 ug/ml
Target Compounds			
2) N-DECANE	4.674	5988608	47.732 ug/ml
3) N-DODECANE	6.857	6095811	47.771 ug/ml
4) N-TETRADECANE	8.698	6121852	47.437 ug/ml
5) N-HEXADECANE	10.317	6169932	47.271 ug/ml
6) N-OCTADECANE	11.771	6306860	47.094 ug/ml
7) N-EICOSANE	13.092	6338537	46.855 ug/ml
8) N-DOCOSANE	14.300	6159320	46.719 ug/ml
10) N-TETRACOSANE	15.411	6109861	46.381 ug/ml
11) N-HEXACOSANE	16.439	6011384	45.921 ug/ml
12) N-OCTACOSANE	17.396	5852135	45.300 ug/ml

(f)=RT Delta > 1/2 Window

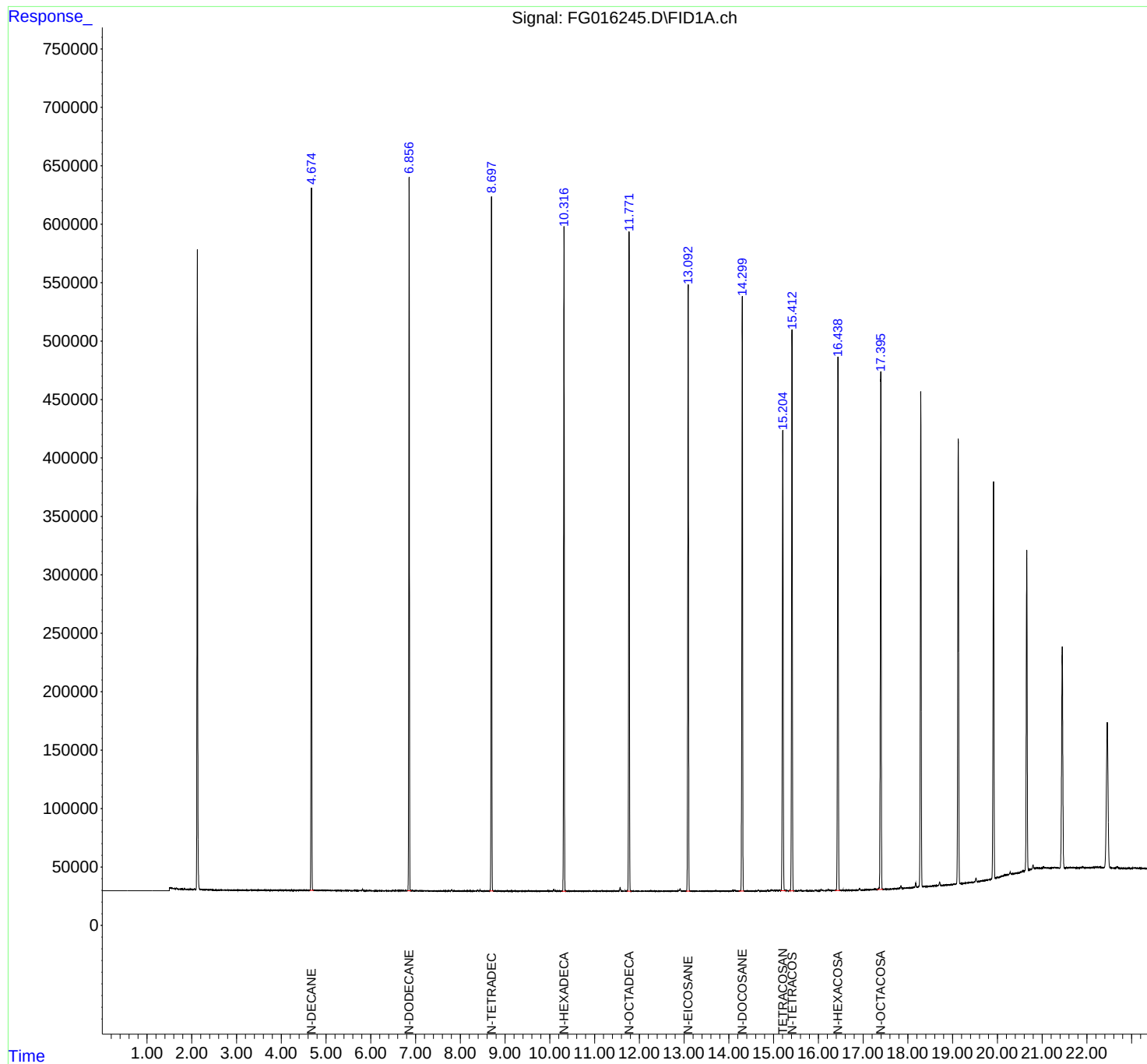
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016245.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 14:24
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: Sample.e
Quant Time: Jul 09 03:13:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
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\FG070825\
Data File : FG016245.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 14:24
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.674	4.632	4.727	BB	601066	5988608	94.48%	8.994%
2	6.857	6.818	6.903	BB	611133	6095811	96.17%	9.155%
3	8.698	8.650	8.742	BB	593879	6121852	96.58%	9.194%
4	10.317	10.268	10.365	BB	568507	6169932	97.34%	9.266%
5	11.771	11.723	11.815	BB	564066	6306860	99.50%	9.472%
6	13.092	13.044	13.138	BB	518569	6338537	100.00%	9.519%
7	14.300	14.220	14.339	BB	507669	6159320	97.17%	9.250%
8	15.205	15.152	15.280	BV	393602	5431462	85.69%	8.157%
9	15.411	15.336	15.461	BB	476878	6109861	96.39%	9.176%
10	16.439	16.368	16.488	BB	454986	6011384	94.84%	9.028%
11	17.396	17.311	17.445	BB	435670	5852135	92.33%	8.789%
Sum of corrected areas:						66585762		

FG061325.M Wed Jul 09 05:41:06 2025

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2514
DataFile: FG016253.D Analyst Name: YP\AJ Analyst Date: 07-08-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	61989135	123978	130550	5.034

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
 Data File : FG016253.D
 Signal(s) : FID1A.ch
 Acq On : 08 Jul 2025 18:54
 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: Sample.e
 Quant Time: Jul 09 03:15:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
 Quant Title :
 QLast Update : Fri Jun 13 12:34:28 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.205	5505273	46.933 ug/ml
Target Compounds			
2) N-DECANE	4.674	6046993	48.198 ug/ml
3) N-DODECANE	6.857	6172923	48.376 ug/ml
4) N-TETRADECANE	8.697	6209107	48.113 ug/ml
5) N-HEXADECANE	10.317	6263234	47.986 ug/ml
6) N-OCTADECANE	11.772	6401431	47.800 ug/ml
7) N-EICOSANE	13.092	6434644	47.566 ug/ml
8) N-DOCOSANE	14.300	6244972	47.369 ug/ml
10) N-TETRACOSANE	15.411	6194202	47.022 ug/ml
11) N-HEXACOSANE	16.439	6084518	46.480 ug/ml
12) N-OCTACOSANE	17.395	5937111	45.958 ug/ml

(f)=RT Delta > 1/2 Window

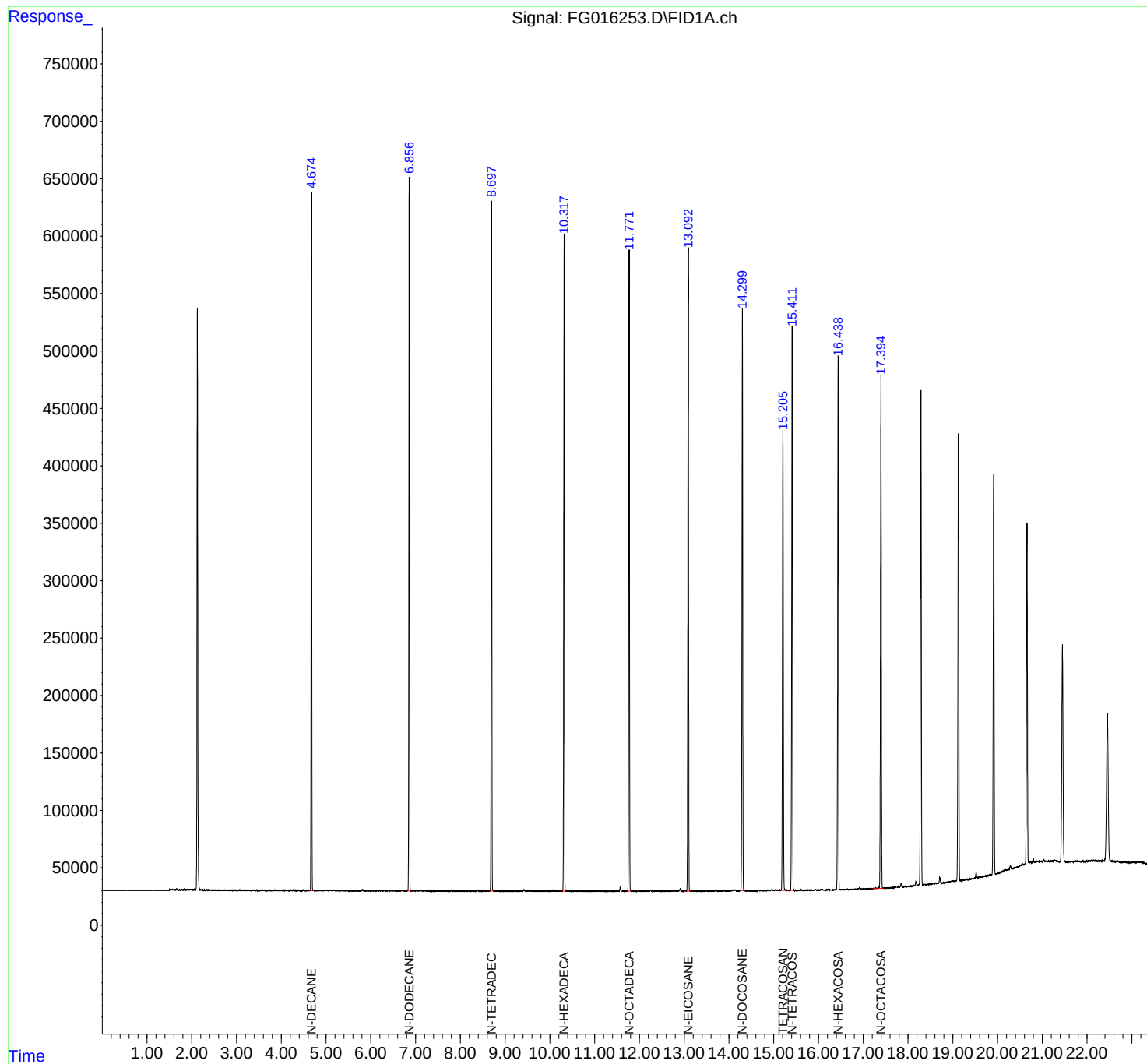
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016253.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 18:54
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: Sample.e
Quant Time: Jul 09 03:15:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
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\FG070825\
Data File : FG016253.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 18:54
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.674	4.639	4.729	BB	608314	6046993	93.98%	8.959%
2	6.857	6.820	6.906	BB	621924	6172923	95.93%	9.146%
3	8.697	8.649	8.745	BB	600219	6209107	96.49%	9.199%
4	10.317	10.273	10.365	BB	572188	6263234	97.34%	9.280%
5	11.772	11.725	11.820	BB	559133	6401431	99.48%	9.484%
6	13.092	13.050	13.143	BB	560795	6434644	100.00%	9.534%
7	14.300	14.260	14.343	BB	505898	6244972	97.05%	9.253%
8	15.205	15.154	15.280	BV	400925	5505273	85.56%	8.157%
9	15.411	15.339	15.465	BB	490710	6194202	96.26%	9.177%
10	16.440	16.360	16.482	BB	463062	6084518	94.56%	9.015%
11	17.395	17.204	17.455	BB	446905	5937111	92.27%	8.796%
Sum of corrected areas:						67494408		

FG061325.M Wed Jul 09 05:43:12 2025

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2514
DataFile: FG016261.D Analyst Name: YP\AJ Analyst Date: 07-08-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	62931063	125862	130550	3.591

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
 Data File : FG016261.D
 Signal(s) : FID1A.ch
 Acq On : 08 Jul 2025 23:52
 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: Sample.e
 Quant Time: Jul 09 03:17:17 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
 Quant Title :
 QLast Update : Fri Jun 13 12:34:28 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.202	5614785	47.866 ug/ml
Target Compounds			
2) N-DECANE	4.672	6119918	48.779 ug/ml
3) N-DODECANE	6.855	6249268	48.974 ug/ml
4) N-TETRADECANE	8.696	6288190	48.726 ug/ml
5) N-HEXADECANE	10.315	6344516	48.609 ug/ml
6) N-OCTADECANE	11.769	6490290	48.463 ug/ml
7) N-EICOSANE	13.090	6530474	48.274 ug/ml
8) N-DOCOSANE	14.297	6351925	48.180 ug/ml
10) N-TETRACOSANE	15.409	6313588	47.928 ug/ml
11) N-HEXACOSANE	16.437	6201909	47.376 ug/ml
12) N-OCTACOSANE	17.393	6040985	46.762 ug/ml

(f)=RT Delta > 1/2 Window

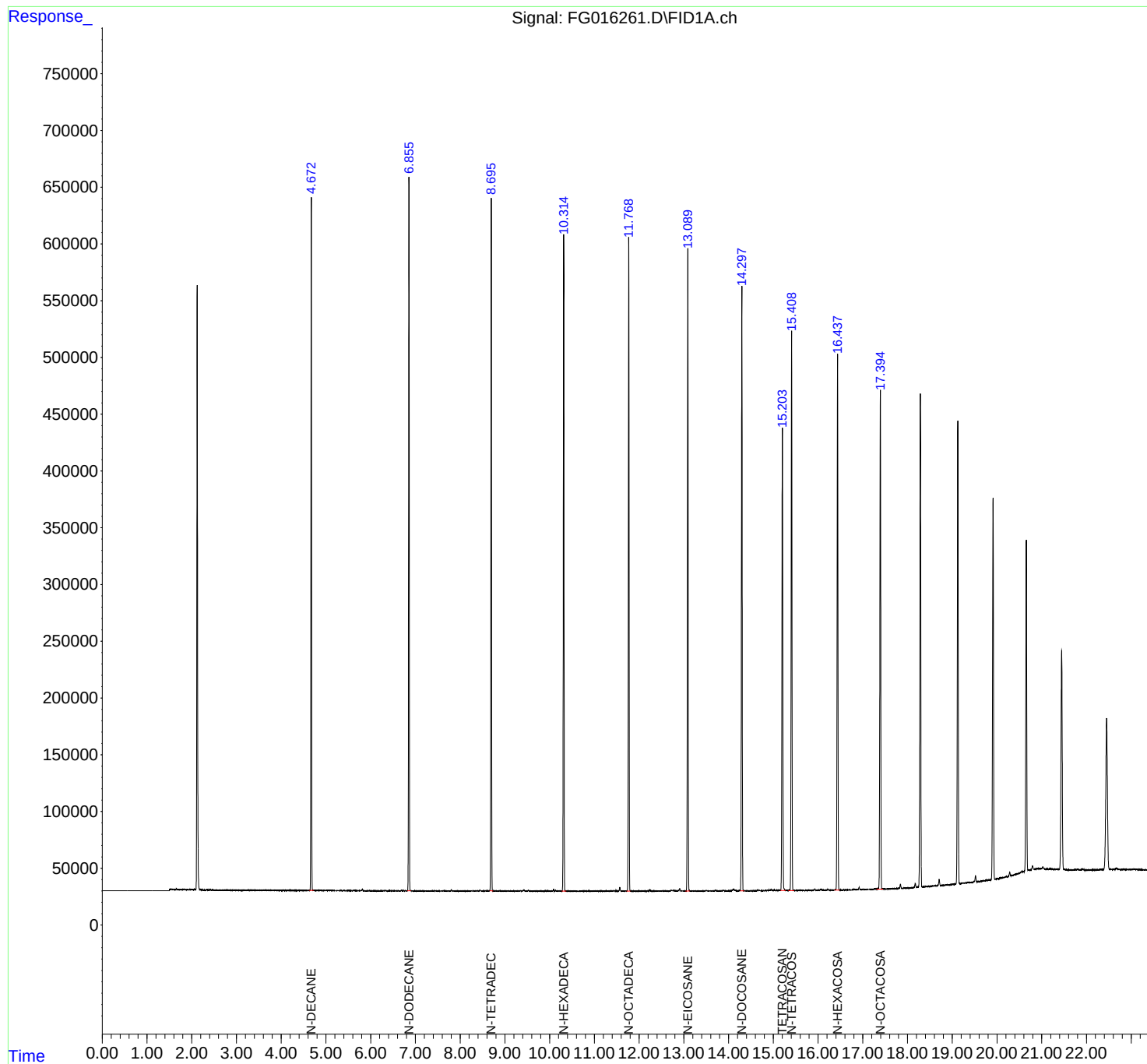
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016261.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 23:52
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: Sample.e
Quant Time: Jul 09 03:17:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
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\FG070825\
Data File : FG016261.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 23:52
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.672	4.630	4.723	BB	610593	6119918	93.71%	8.928%
2	6.855	6.817	6.898	BB	628429	6249268	95.69%	9.117%
3	8.696	8.660	8.738	BB	610381	6288190	96.29%	9.174%
4	10.315	10.270	10.372	BB	578252	6344516	97.15%	9.256%
5	11.769	11.720	11.805	BB	573507	6490290	99.38%	9.469%
6	13.090	13.042	13.131	BB	565469	6530474	100.00%	9.527%
7	14.297	14.259	14.347	VB	532579	6351925	97.27%	9.267%
8	15.202	15.158	15.277	BV	405980	5614785	85.98%	8.191%
9	15.409	15.333	15.468	BB	492404	6313588	96.68%	9.211%
10	16.437	16.373	16.482	BB	470619	6201909	94.97%	9.048%
11	17.393	17.309	17.453	BB	439599	6040985	92.50%	8.813%
Sum of corrected areas:						68545846		

FG061325.M Wed Jul 09 05:44:14 2025

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2514
DataFile: FG016283.D Analyst Name: YP\AJ Analyst Date: 07-10-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	61634631	123269	115010	7.181

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
 Data File : FG016283.D
 Signal(s) : FID1A.ch
 Acq On : 10 Jul 2025 19:41
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/11/2025
 Supervised By :mohammad ahmed 07/14/2025

Integration File: autoint1.e
 Quant Time: Jul 11 04:15:53 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
 Quant Title :
 QLast Update : Wed Jul 09 12:46:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.209	5452164	54.529 ug/ml
Target Compounds			
2) N-DECANE	4.675	6030070	52.356 ug/ml
3) N-DODECANE	6.858	6151853	53.060 ug/ml
4) N-TETRADECANE	8.700	6191181	52.453 ug/ml
5) N-HEXADECANE	10.320	6251931	54.052 ug/ml
6) N-OCTADECANE	11.774	6392200	54.458 ug/ml
7) N-EICOSANE	13.095	6421260	53.675 ug/ml
8) N-DOCOSANE	14.304	6215950	53.939 ug/ml
10) N-TETRACOSANE	15.415	6149152	53.820 ug/ml
11) N-HEXACOSANE	16.444	5994403	54.475 ug/ml
12) N-OCTACOSANE	17.401	5836631	53.671 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016283.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 19:41
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

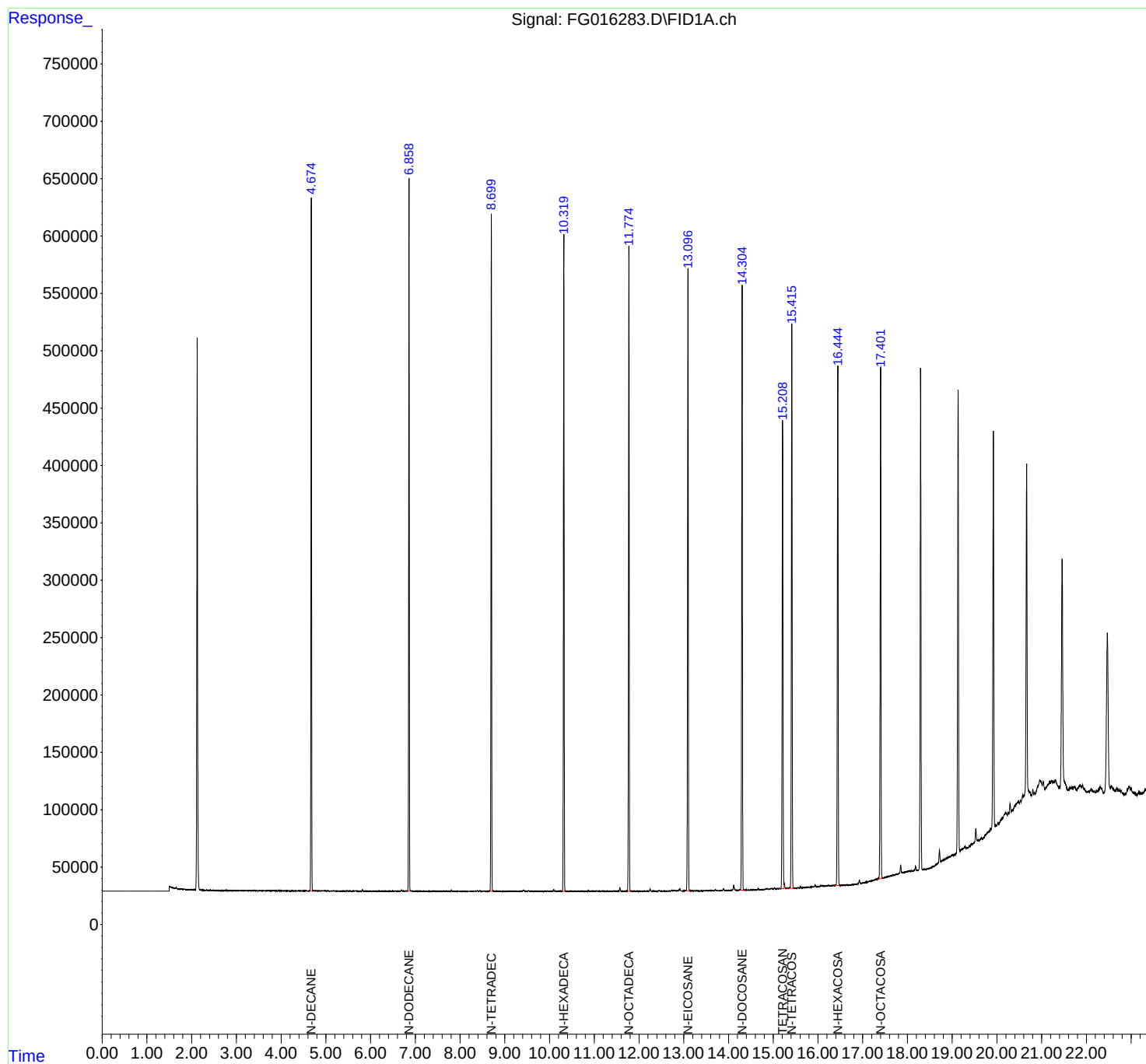
Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2025
Supervised By :mohammad ahmed 07/14/2025

Integration File: autoint1.e
Quant Time: Jul 11 04:15:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_G

LabSampleId :

50 PPM TRPH STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/11/2025

Supervised By :mohammad ahmed 07/14/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG07102
Data File : FG016283.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 19:41
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.675	4.640	4.721	BB	603324	6030070	93.91%	8.990%
2	6.858	6.822	6.902	BB	620964	6151853	95.80%	9.171%
3	8.700	8.661	8.747	BB	586340	6191181	96.42%	9.230%
4	10.320	10.278	10.369	BB	568785	6251931	97.36%	9.321%
5	11.774	11.738	11.821	BB	560084	6392200	99.55%	9.530%
6	13.095	13.043	13.148	BB	542880	6421260	100.00%	9.573%
7	14.304	14.266	14.355	VB	527068	6215950	96.80%	9.267%
8	15.209	15.162	15.242	BV	406358	5452164	84.91%	8.128%
9	15.415	15.283	15.472	VB	490693	6149152	95.76%	9.167%
10	16.444	16.367	16.487	BB	451353	5994403	93.35%	8.937%
11	17.401	16.968	17.438	BV	443952	5826626	90.74%	8.687%
Sum of corrected areas:						67076788		

FG070925.M Fri Jul 11 04:53:49 2025

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2514
DataFile: FG016287.D Analyst Name: YP\AJ Analyst Date: 07-10-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	62962280	125925	115010	9.49

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
 Data File : FG016287.D
 Signal(s) : FID1A.ch
 Acq On : 10 Jul 2025 22:10
 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: Jul 11 04:16:42 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
 Quant Title :
 QLast Update : Wed Jul 09 12:46:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.208	5545862	55.466 ug/ml
Target Compounds			
2) N-DECANE	4.674	6210427	53.922 ug/ml
3) N-DODECANE	6.857	6318556	54.498 ug/ml
4) N-TETRADECANE	8.699	6341558	53.727 ug/ml
5) N-HEXADECANE	10.318	6392902	55.271 ug/ml
6) N-OCTADECANE	11.773	6527565	55.611 ug/ml
7) N-EICOSANE	13.094	6551298	54.762 ug/ml
8) N-DOCOSANE	14.302	6332229	54.948 ug/ml
10) N-TETRACOSANE	15.414	6249503	54.699 ug/ml
11) N-HEXACOSANE	16.442	6101926	55.452 ug/ml
12) N-OCTACOSANE	17.397	5936316	54.588 ug/ml

(f)=RT Delta > 1/2 Window

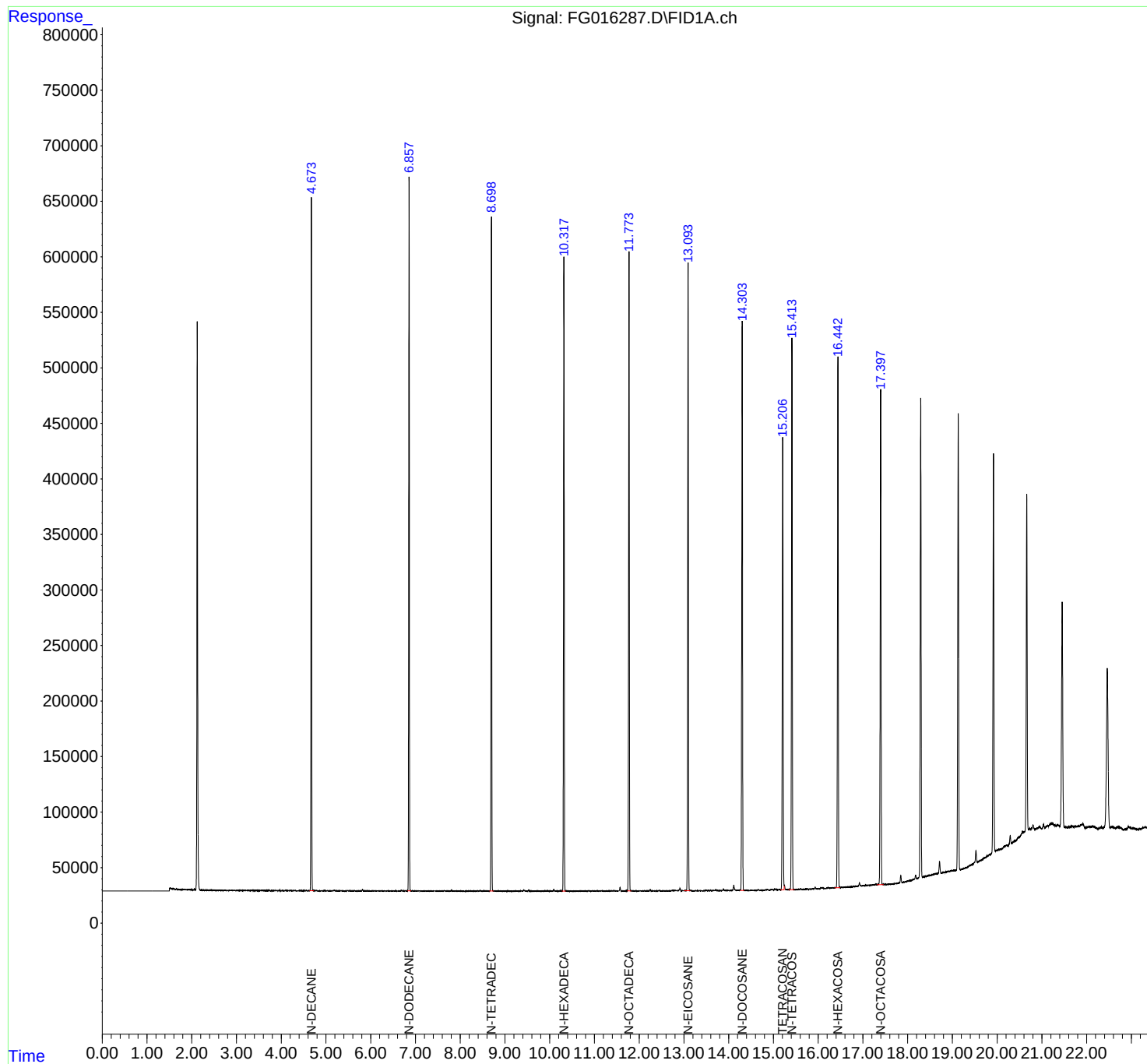
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016287.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 22:10
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: Jul 11 04:16:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 2025
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\FG071025\
Data File : FG016287.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 22:10
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.674	4.630	4.732	BB	623855	6210427	94.80%	9.065%
2	6.857	6.823	6.904	BB	642998	6318556	96.45%	9.223%
3	8.699	8.652	8.745	BB	606664	6341558	96.80%	9.257%
4	10.318	10.278	10.359	BB	570738	6392902	97.58%	9.332%
5	11.773	11.734	11.821	BB	575078	6527565	99.64%	9.528%
6	13.094	13.003	13.142	BB	565018	6551298	100.00%	9.563%
7	14.302	14.265	14.349	VB	511456	6332229	96.66%	9.243%
8	15.208	15.157	15.240	BV	406043	5545862	84.65%	8.095%
9	15.414	15.336	15.473	BB	493491	6249503	95.39%	9.122%
10	16.442	16.366	16.493	BB	477918	6101926	93.14%	8.907%
11	17.397	17.316	17.466	BB	446124	5936316	90.61%	8.665%
Sum of corrected areas:						68508141		

FG070925.M Fri Jul 11 04:55:50 2025

Analytical Sequence

Client: CDM Smith

SDG No.: Q2514

Project: South River WM Replacement

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 15.0944					
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	08 Jul 2025 10:54	FF016097.D	15.094	
50 PPM TRPH STD	50 PPM TRPH STD	08 Jul 2025 11:55	FF016098.D	15.098	
TP-90	Q2514-10	08 Jul 2025 13:54	FF016101.D	15.098	
PIBLK02	LBLK02	08 Jul 2025 15:54	FF016105.D	15.104	
50 PPM TRPH STD	50 PPM TRPH STD	08 Jul 2025 16:54	FF016106.D	15.106	
TP-93	Q2514-02	08 Jul 2025 17:54	FF016107.D	15.102	
TP-96	Q2514-04	08 Jul 2025 18:24	FF016108.D	15.104	
TP-103	Q2514-06	08 Jul 2025 18:54	FF016109.D	15.101	
PIBLK03	LBLK03	08 Jul 2025 20:54	FF016113.D	15.107	
50 PPM TRPH STD	50 PPM TRPH STD	08 Jul 2025 21:53	FF016114.D	15.109	
PIBLK04	LBLK04	08 Jul 2025 13:54	FG016244.D	15.203	
50 PPM TRPH STD	50 PPM TRPH STD	08 Jul 2025 14:24	FG016245.D	15.205	
PB168751BL	PB168751BL	08 Jul 2025 15:24	FG016247.D	15.201	
G4(6-12)MS	Q2487-10MS	08 Jul 2025 16:54	FG016249.D	15.201	
G4(6-12)MSD	Q2487-10MSD	08 Jul 2025 17:24	FG016250.D	15.202	
PIBLK05	LBLK05	08 Jul 2025 18:24	FG016252.D	15.201	
50 PPM TRPH STD	50 PPM TRPH STD	08 Jul 2025 18:54	FG016253.D	15.205	
TP-92	Q2514-01	08 Jul 2025 19:54	FG016254.D	15.201	
TP-94	Q2514-03	08 Jul 2025 20:23	FG016255.D	15.200	
TP-97	Q2514-05	08 Jul 2025 20:54	FG016256.D	15.200	
TP-36	Q2514-07	08 Jul 2025 21:23	FG016257.D	15.200	
TP-78	Q2514-08	08 Jul 2025 21:53	FG016258.D	15.199	
TP-81	Q2514-09	08 Jul 2025 22:23	FG016259.D	15.198	
PIBLK06	LBLK06	08 Jul 2025 22:52	FG016260.D	15.200	
50 PPM TRPH STD	50 PPM TRPH STD	08 Jul 2025 23:52	FG016261.D	15.202	
PIBLK07	LBLK07	10 Jul 2025 19:11	FG016282.D	15.206	
50 PPM TRPH STD	50 PPM TRPH STD	10 Jul 2025 19:41	FG016283.D	15.209	
PB168751BS	PB168751BS	10 Jul 2025 21:11	FG016285.D	15.204	
PIBLK08	LBLK08	10 Jul 2025 21:41	FG016286.D	15.205	
50 PPM TRPH STD	50 PPM TRPH STD	10 Jul 2025 22:10	FG016287.D	15.208	



QC SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168751BL	SDG No.:	Q2514
Lab Sample ID:	PB168751BL	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100
Sample Wt/Vol:	30.01	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
FG016247.D	1	07/08/25 08:35	07/08/25 15:24	PB168751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	169	U	169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.8		37 - 130	79%	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\FG070825\
Data File : FG016247.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 15:24
Operator : YP\AJ
Sample : PB168751BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168751BL

Integration File: Sample.e
Quant Time: Jul 09 03:14:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.201	1852080	15.789 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

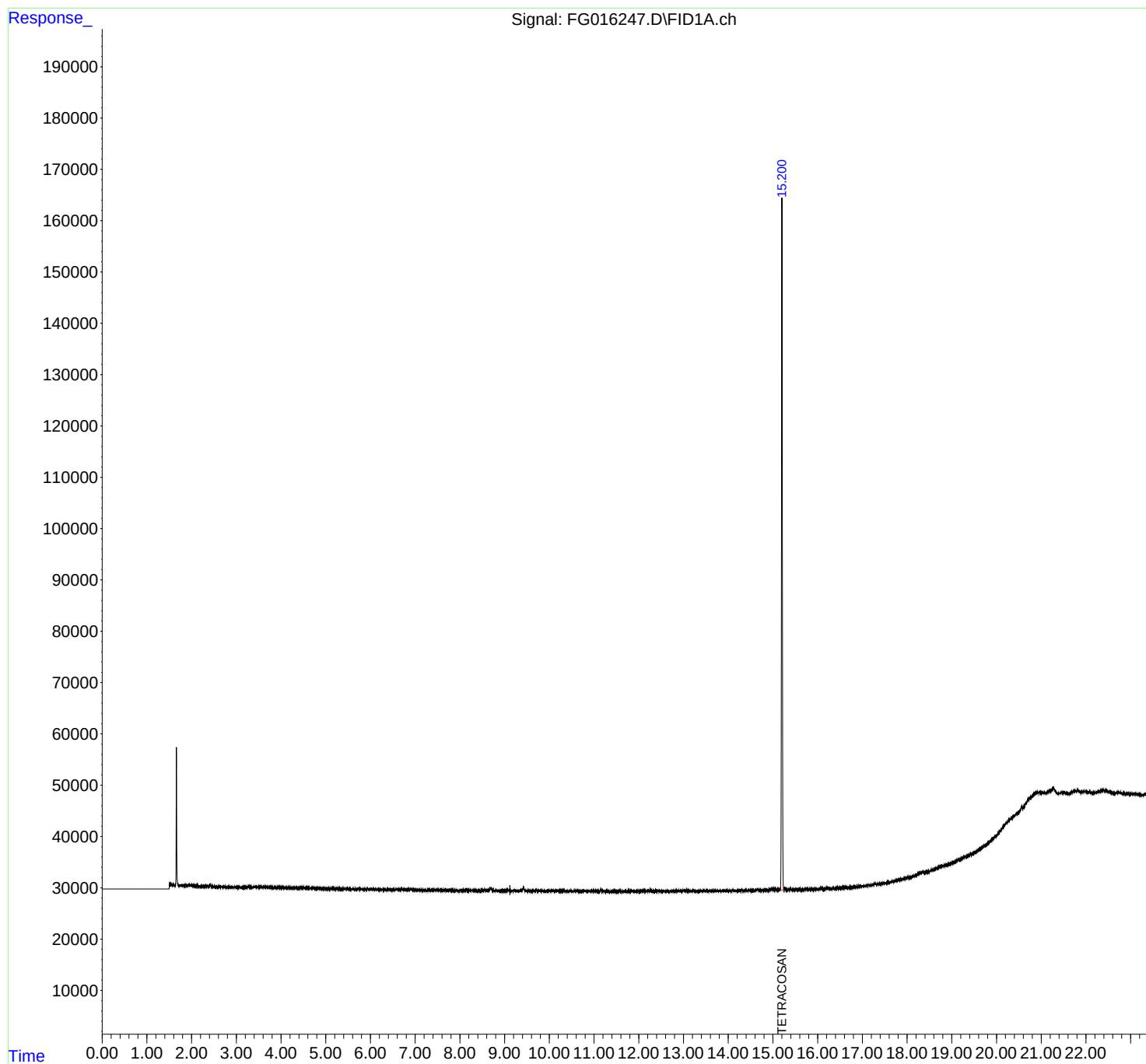
(m)=manual int.

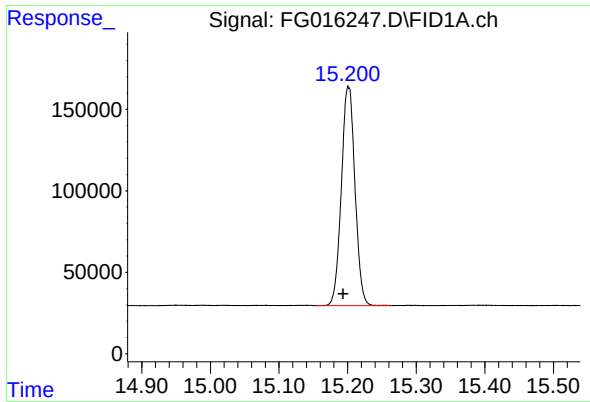
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016247.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 15:24
Operator : YP\AJ
Sample : PB168751BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168751BL

Integration File: Sample.e
Quant Time: Jul 09 03:14:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.201 min
Delta R.T.: 0.008 min
Response: 1852080
Conc: 15.79 ug/ml

Instrument :
FID_G
ClientSampleId :
PB168751BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016247.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 15:24
Sample : PB168751BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.201	15.154	15.264	BB	133357	1852080	100.00%	100.000%
Sum of corrected areas:						1852080		

FG061325.M Wed Jul 09 05:42:02 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	PIBLK-FF016097.D	SDG No.:	Q2514
Lab Sample ID:	I.BLK-FF016097.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
FF016097.D	1		07/08/25	FF070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	16.2		29 - 130	81%	SPK: 20

Comments:

U = Not Detected
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 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\FF070825\
Data File : FF016097.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 10:54
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: Jul 09 02:36:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.094	1957951	16.216 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

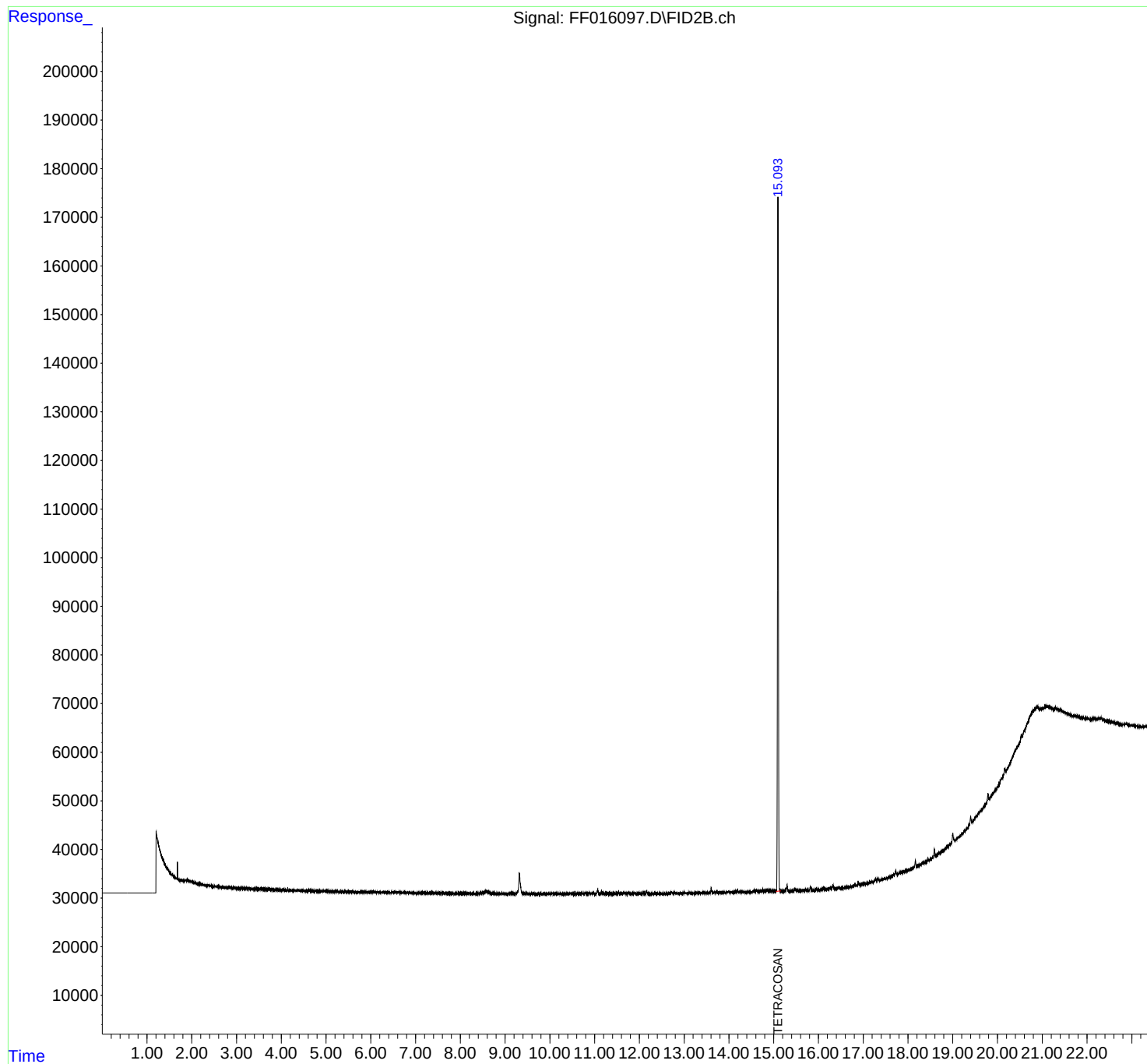
(m)=manual int.

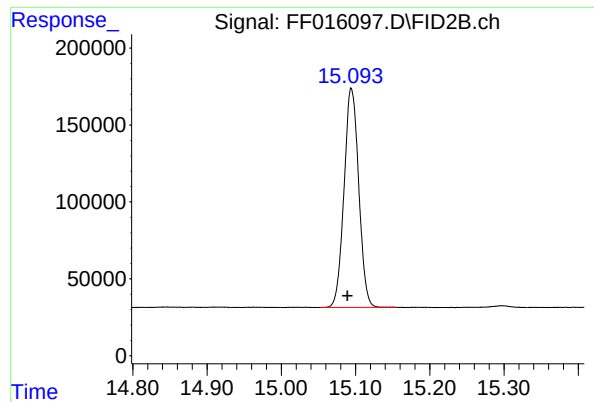
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
Data File : FF016097.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 10:54
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 09 02:36:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.094 min
Delta R.T.: 0.005 min
Response: 1957951
Conc: 16.22 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
Data File : FF016097.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 10:54
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.094	15.052	15.154	BB	142646	1957951	100.00%	100.000%
Sum of corrected areas:						1957951		

FF061325.M Wed Jul 09 04:14:21 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	PIBLK-FF016105.D	SDG No.:	Q2514
Lab Sample ID:	I.BLK-FF016105.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
FF016105.D	1		07/08/25	FF070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	14.8		29 - 130	74%	SPK: 20

Comments:

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 LOQ = Limit of Quantitation
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 * = 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\FF070825\
Data File : FF016105.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 15:54
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: Jul 09 02:38:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.104	1784497	14.779 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

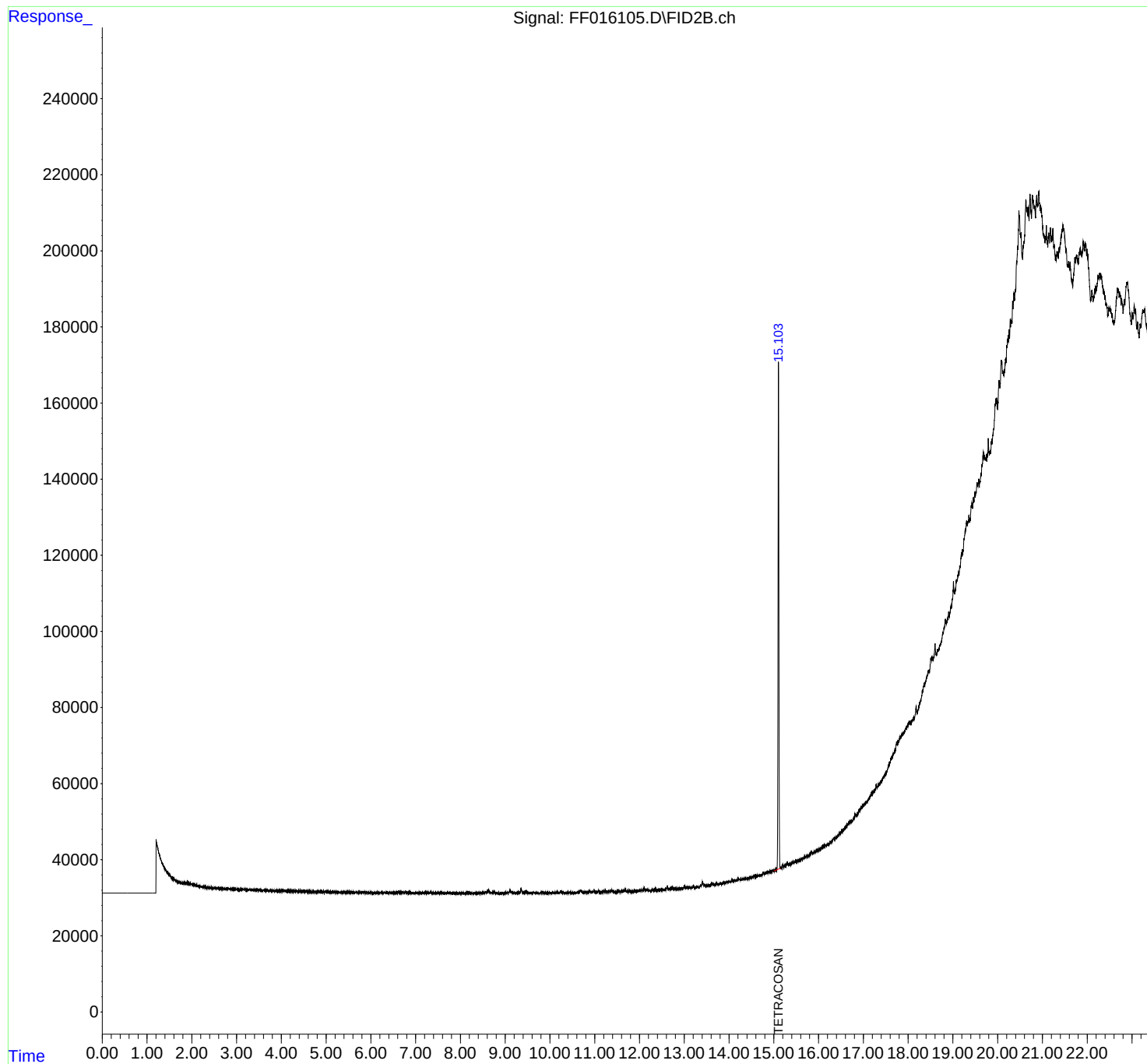
(m)=manual int.

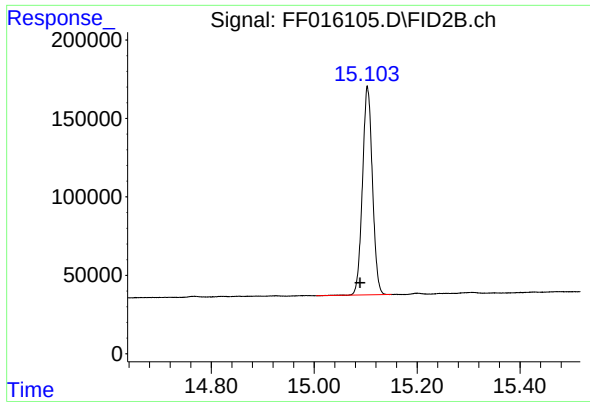
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
Data File : FF016105.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 15:54
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 09 02:38:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.104 min
Delta R.T.: 0.014 min
Response: 1784497
Conc: 14.78 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
Data File : FF016105.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 15:54
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.104	15.004	15.150	BB	132463	1784497	100.00%	100.000%
Sum of corrected areas:						1784497		

FF061325.M Wed Jul 09 04:15:19 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	PIBLK-FF016113.D	SDG No.:	Q2514
Lab Sample ID:	I.BLK-FF016113.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
FF016113.D	1		07/08/25	FF070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	15.3		29 - 130	76%	SPK: 20

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
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 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
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 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\FF070825\
Data File : FF016113.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 20:54
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: Jul 09 02:40:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.107	1844706	15.278 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

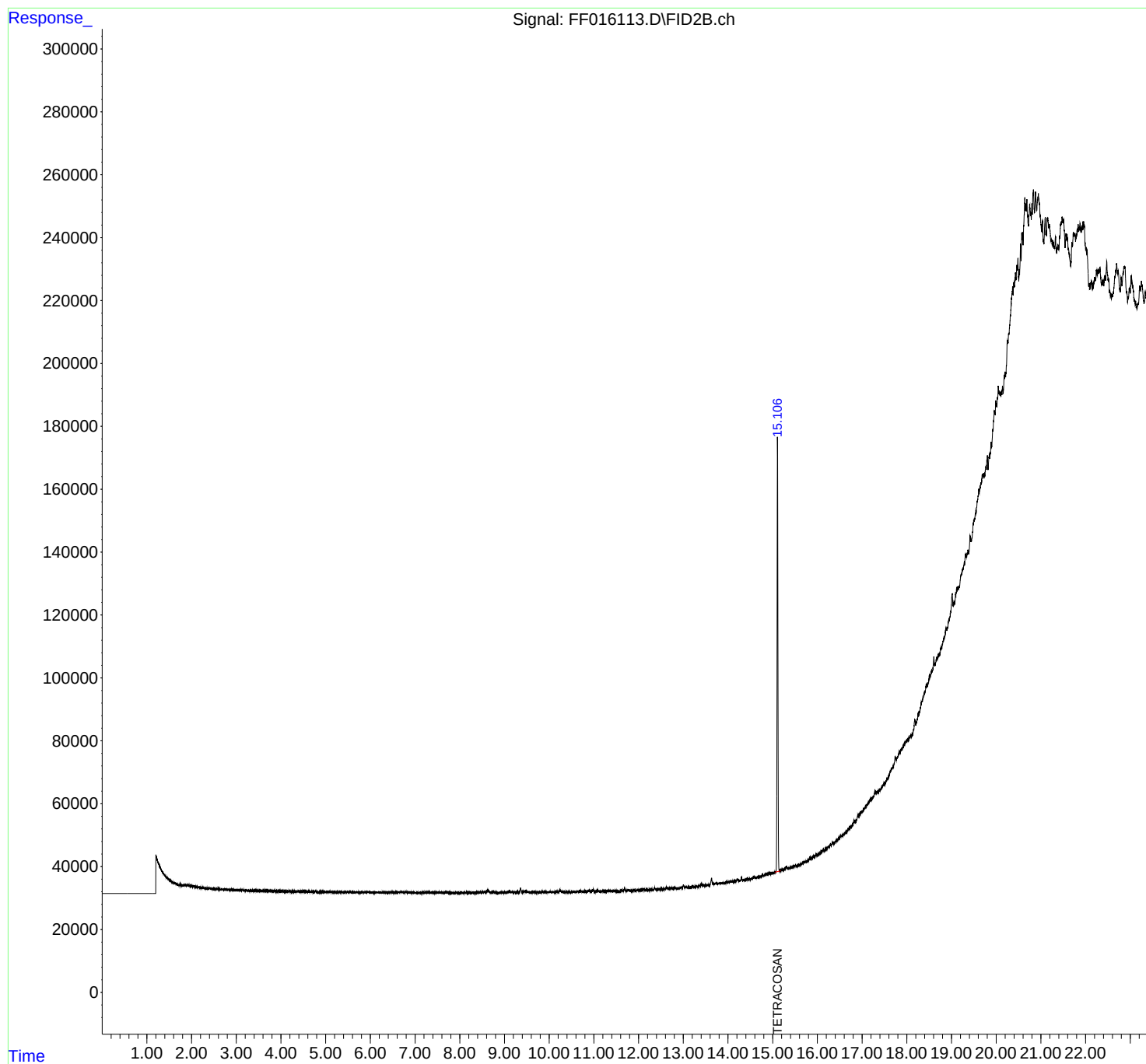
(m)=manual int.

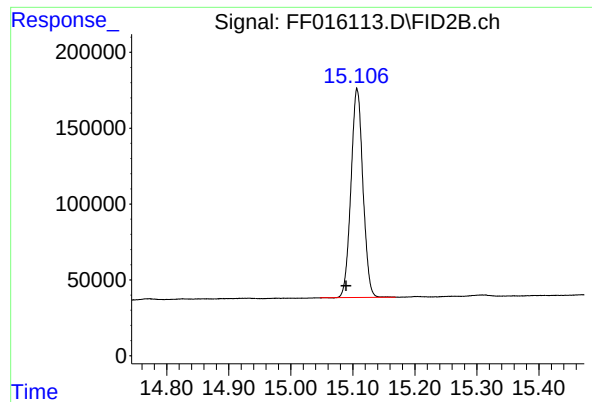
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
Data File : FF016113.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 20:54
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 09 02:40:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Quant Title :
QLast Update : Fri Jun 13 15:23:30 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.107 min
Delta R.T.: 0.018 min
Response: 1844706
Conc: 15.28 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070825\
Data File : FF016113.D
Signal(s) : FID2B.ch
Acq On : 08 Jul 2025 20:54
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF061325.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.107	15.047	15.169	BB	137146	1844706	100.00%	100.000%
Sum of corrected areas:						1844706		

FF061325.M Wed Jul 09 04:15:58 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	PIBLK-FG016244.D	SDG No.:	Q2514
Lab Sample ID:	I.BLK-FG016244.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016244.D	1		07/08/25	FG070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.9		29 - 130	90%	SPK: 20

Comments:

U = Not Detected
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 B = Analyte Found in Associated Method Blank
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 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016244.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 13:54
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: Sample.e
Quant Time: Jul 09 03:13:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.203	2100721	17.909 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

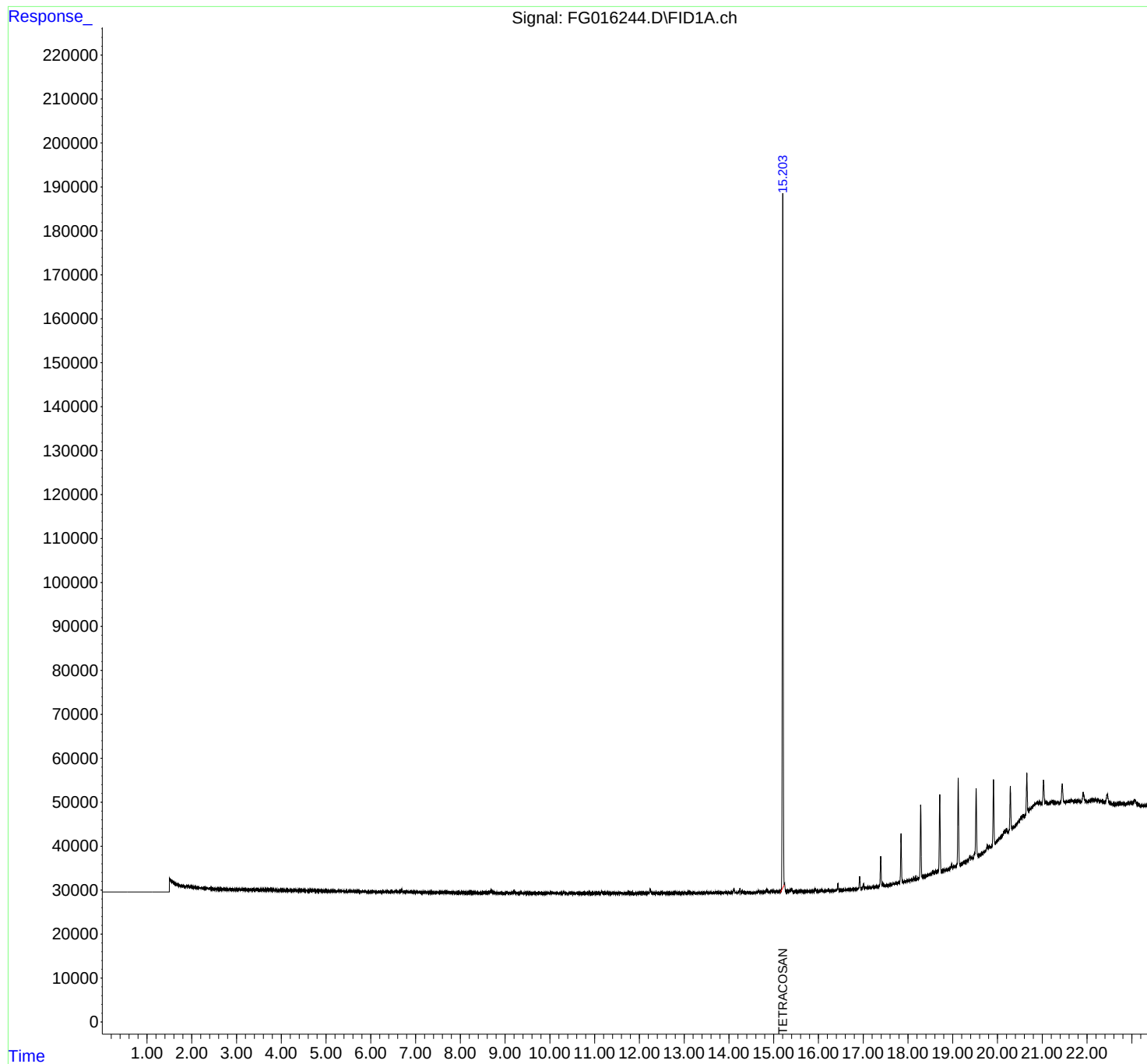
(m)=manual int.

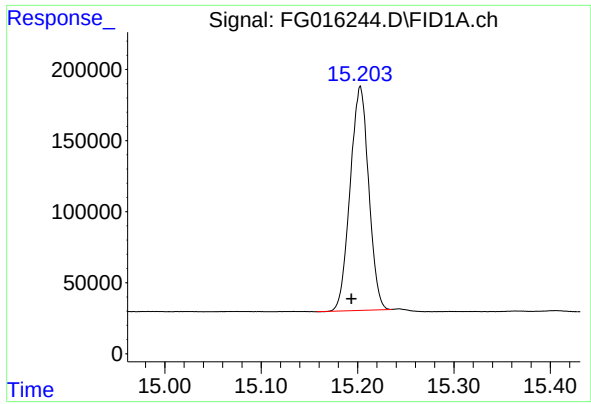
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016244.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 13:54
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: Sample.e
Quant Time: Jul 09 03:13:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.203 min
Delta R.T.: 0.009 min
Response: 2100721
Conc: 17.91 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016244.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 13:54
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.203	15.157	15.235	BV	157753	2100721	100.00%	100.000%
Sum of corrected areas:						2100721		

FG061325.M Wed Jul 09 05:40:36 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	PIBLK-FG016252.D	SDG No.:	Q2514
Lab Sample ID:	I.BLK-FG016252.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016252.D	1		07/08/25	FG070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.7		29 - 130	93%	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\FG070825\
Data File : FG016252.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 18:24
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: Sample.e
Quant Time: Jul 09 03:15:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.201	2188795	18.660 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

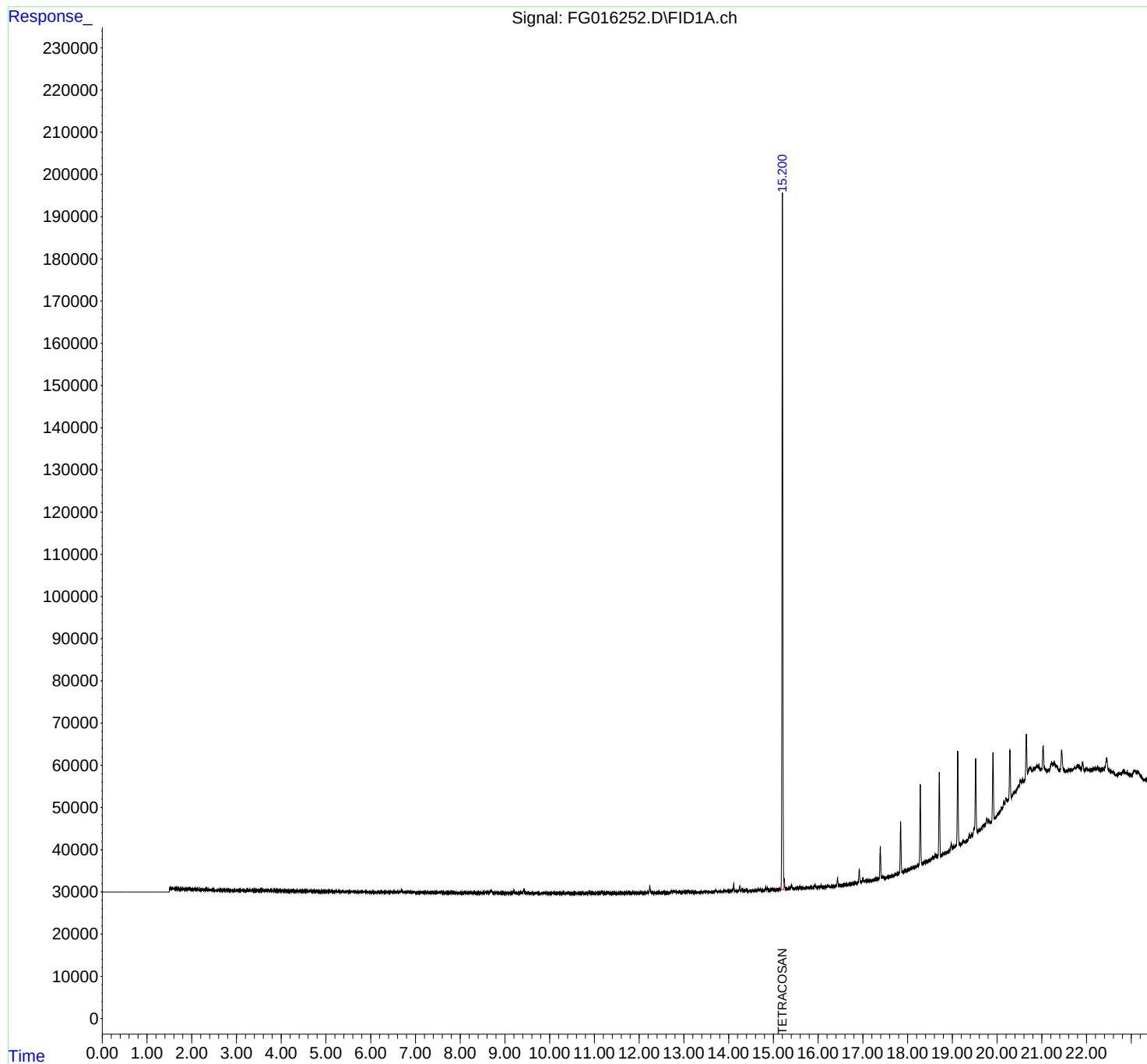
(m)=manual int.

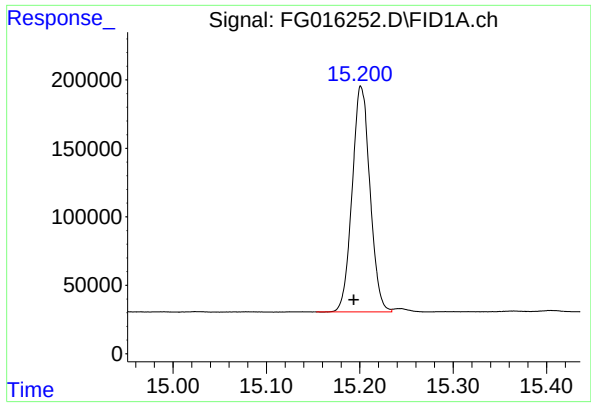
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016252.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 18:24
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: Sample.e
Quant Time: Jul 09 03:15:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.201 min
Delta R.T.: 0.008 min
Response: 2188795
Conc: 18.66 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016252.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 18:24
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.201	15.153	15.234	BV	164954	2188795	100.00%	100.000%
Sum of corrected areas:						2188795		

FG061325.M Wed Jul 09 05:42:37 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/08/25
Client Sample ID:	PIBLK-FG016260.D	SDG No.:	Q2514
Lab Sample ID:	I.BLK-FG016260.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
FG016260.D	1		07/08/25	FG070825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	19.2		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_G\Data\FG070825\
Data File : FG016260.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 22:52
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: Sample.e
Quant Time: Jul 09 03:17:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.200	2254020	19.216 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

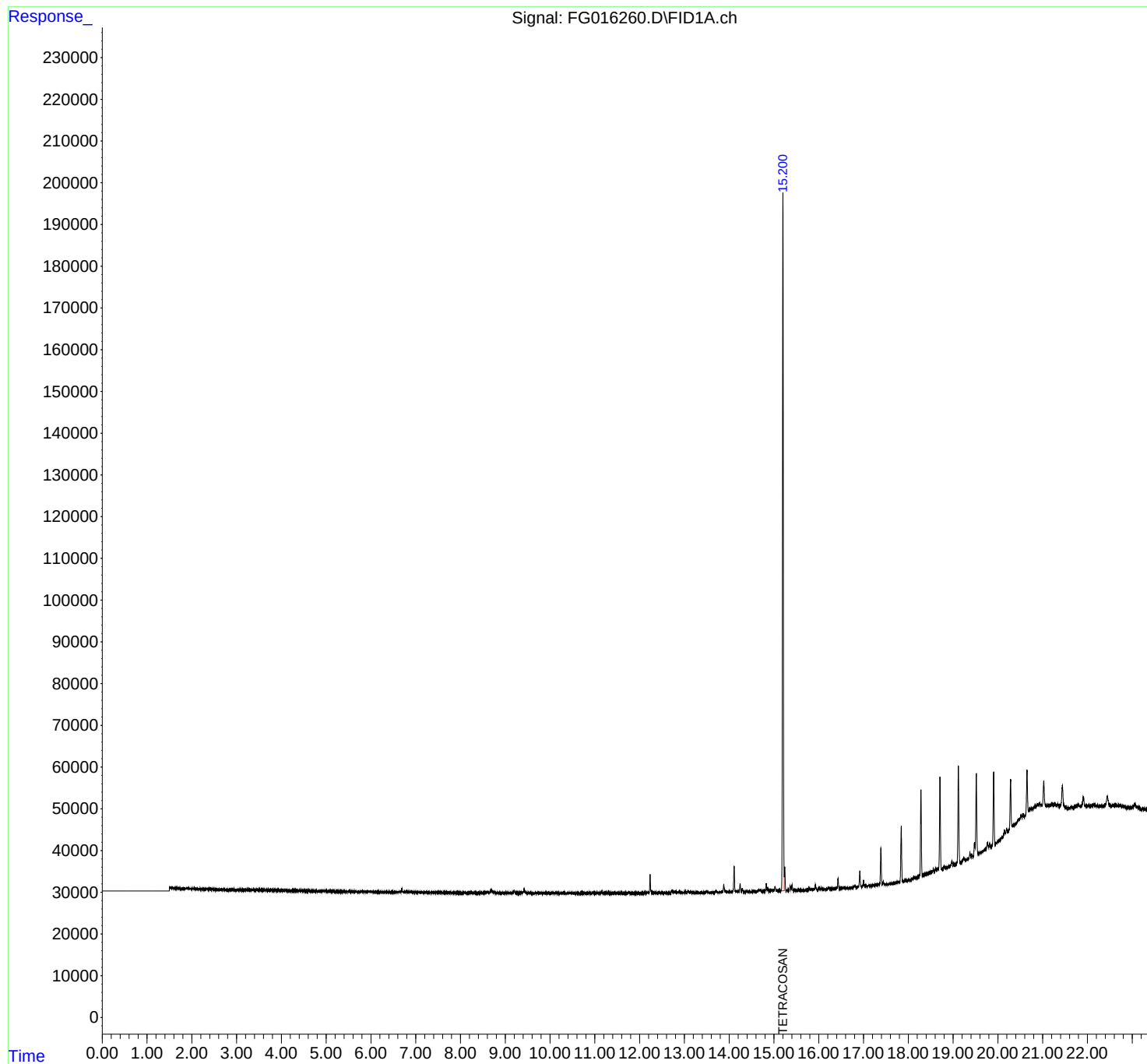
(m)=manual int.

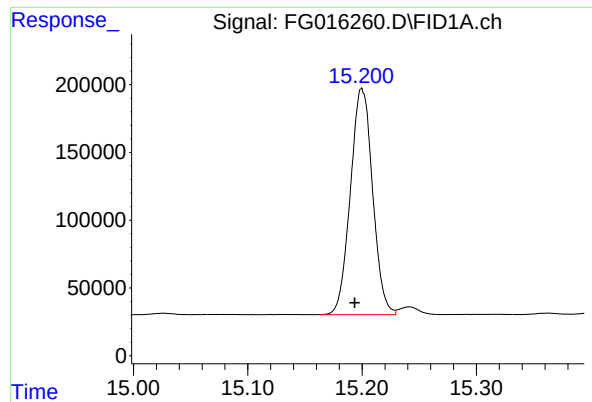
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016260.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 22:52
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: Sample.e
Quant Time: Jul 09 03:17:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.200 min
Delta R.T.: 0.006 min
Response: 2254020
Conc: 19.22 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016260.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 22:52
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.200	15.163	15.229	BV	167212	2254020	100.00%	100.000%
Sum of corrected areas:						2254020		

FG061325.M Wed Jul 09 05:43:44 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/10/25
Project:	South River WM Replacement	Date Received:	07/10/25
Client Sample ID:	PIBLK-FG016282.D	SDG No.:	Q2514
Lab Sample ID:	I.BLK-FG016282.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016282.D	1		07/10/25	FG071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.4		29 - 130	92%	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\FG071025\
Data File : FG016282.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 19:11
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: Jul 11 04:15:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.206	1843573	18.438 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

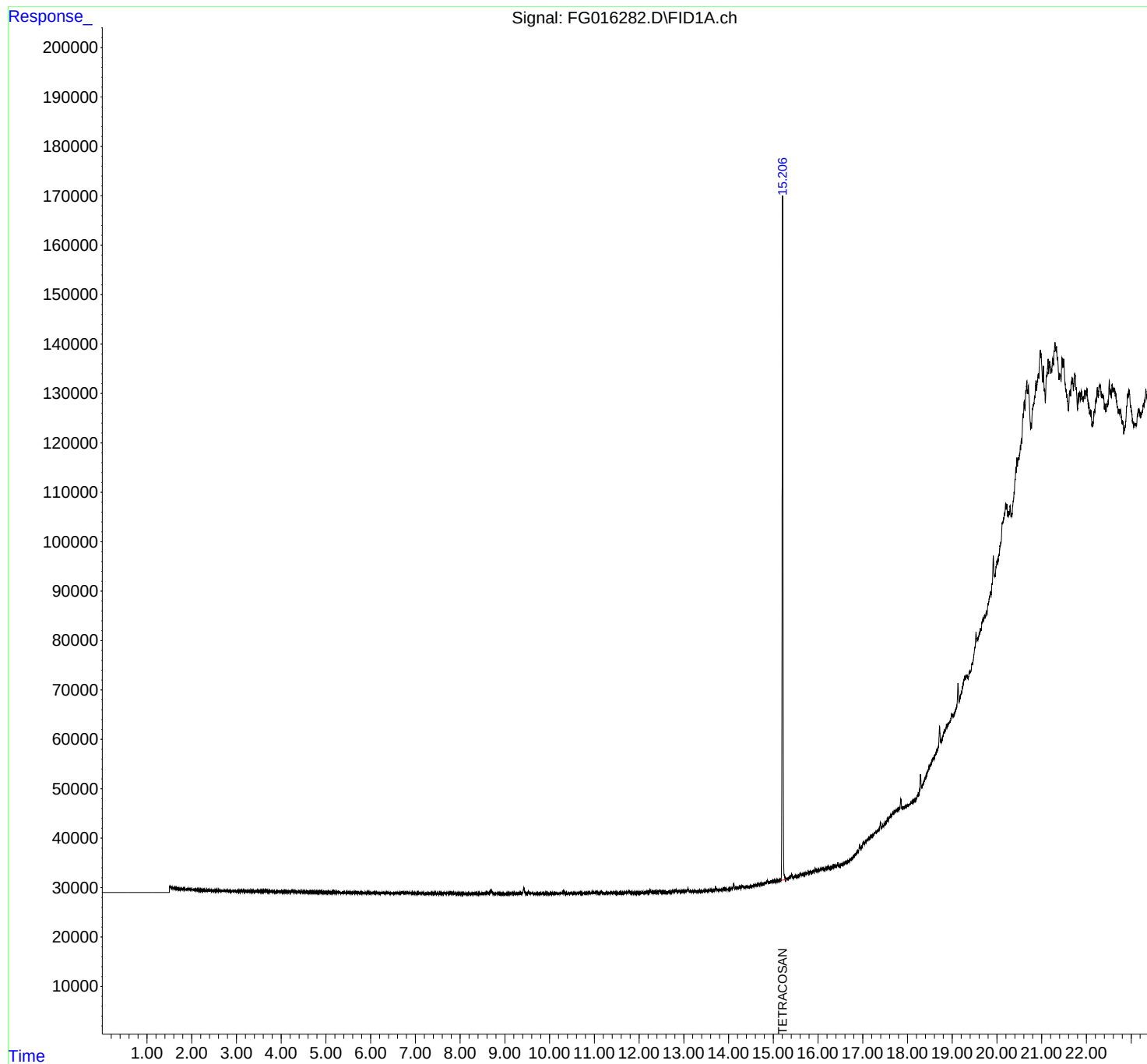
(m)=manual int.

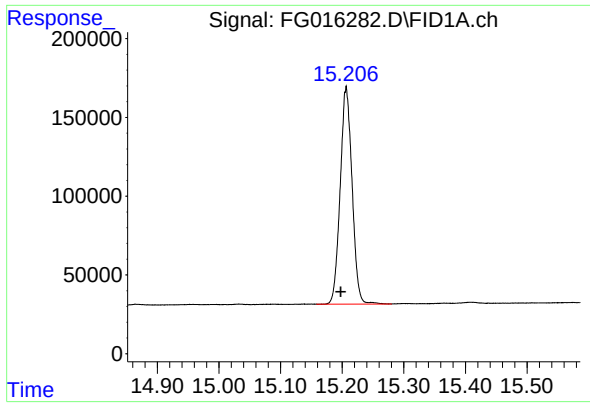
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016282.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 19:11
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 11 04:15:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.206 min
Delta R.T.: 0.009 min
Response: 1843573
Conc: 18.44 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016282.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 19:11
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.206	15.158	15.280	BB	137580	1843573	100.00%	100.000%
Sum of corrected areas:						1843573		

FG070925.M Fri Jul 11 04:52:55 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/10/25
Project:	South River WM Replacement	Date Received:	07/10/25
Client Sample ID:	PIBLK-FG016286.D	SDG No.:	Q2514
Lab Sample ID:	I.BLK-FG016286.D	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	Diesel Range Organics
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016286.D	1		07/10/25	FG071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	6.00	U	6.00	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\FG071025\
Data File : FG016286.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 21:41
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: Jul 11 04:16:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.205	1874515	18.748 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

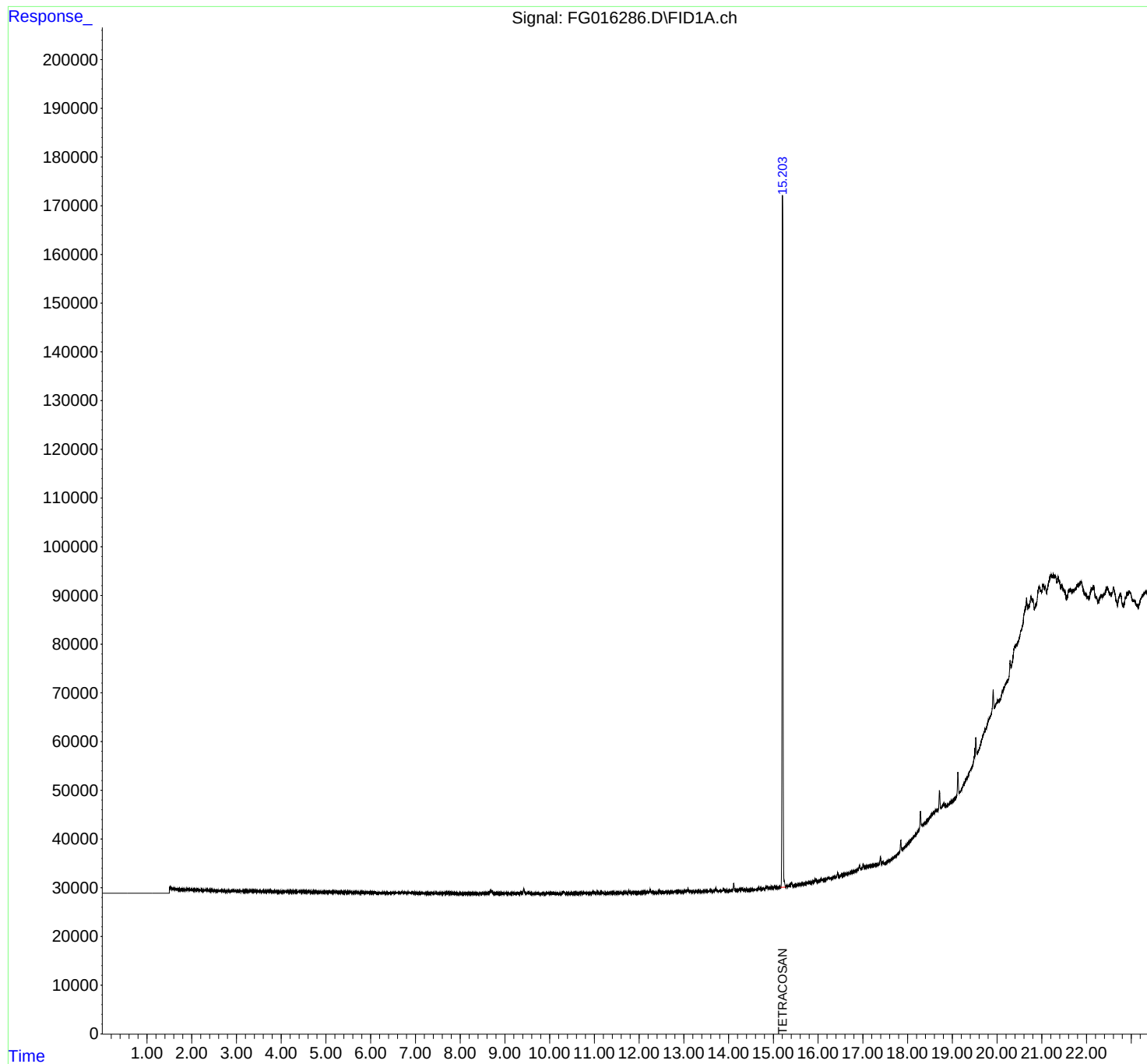
(m)=manual int.

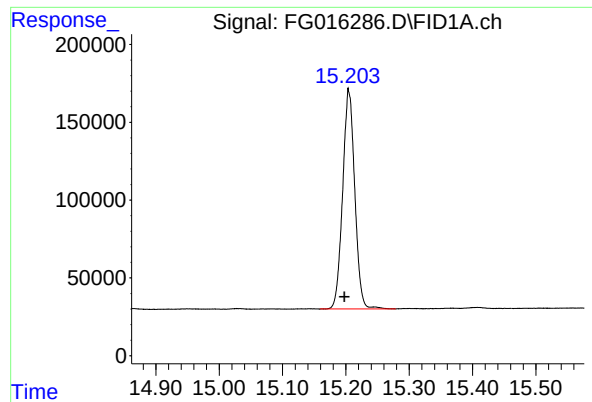
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016286.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 21:41
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 11 04:16:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.205 min
Delta R.T.: 0.007 min
Response: 1874515
Conc: 18.75 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016286.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 21:41
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.205	15.160	15.279	BB	139800	1874515	100.00%	100.000%
Sum of corrected areas:						1874515		

FG070925.M Fri Jul 11 04:54:53 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168751BS	SDG No.:	Q2514
Lab Sample ID:	PB168751BS	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
FG016285.D	1	07/08/25 08:35	07/10/25 21:11	PB168751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	5550		169	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_G\Data\FG071025\
 Data File : FG016285.D
 Signal(s) : FID1A.ch
 Acq On : 10 Jul 2025 21:11
 Operator : YP\AJ
 Sample : PB168751BS
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 PB168751BS

Integration File: autoint1.e
 Quant Time: Jul 11 04:16:18 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
 Quant Title :
 QLast Update : Wed Jul 09 12:46:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.204	1792766	17.930 ug/ml
Target Compounds			
2) N-DECANE	4.673	1846437	16.032 ug/ml
3) N-DODECANE	6.855	1896017	16.353 ug/ml
4) N-TETRADECANE	8.695	1927691	16.332 ug/ml
5) N-HEXADECANE	10.315	1932364	16.706 ug/ml
6) N-OCTADECANE	11.770	1978951	16.859 ug/ml
7) N-EICOSANE	13.090	2021349	16.896 ug/ml
8) N-DOCOSANE	14.299	1953472	16.951 ug/ml
10) N-TETRACOSANE	15.409	1931995	16.910 ug/ml
11) N-HEXACOSANE	16.439	1853506	16.844 ug/ml
12) N-OCTACOSANE	17.394	1831410	16.841 ug/ml

(f)=RT Delta > 1/2 Window

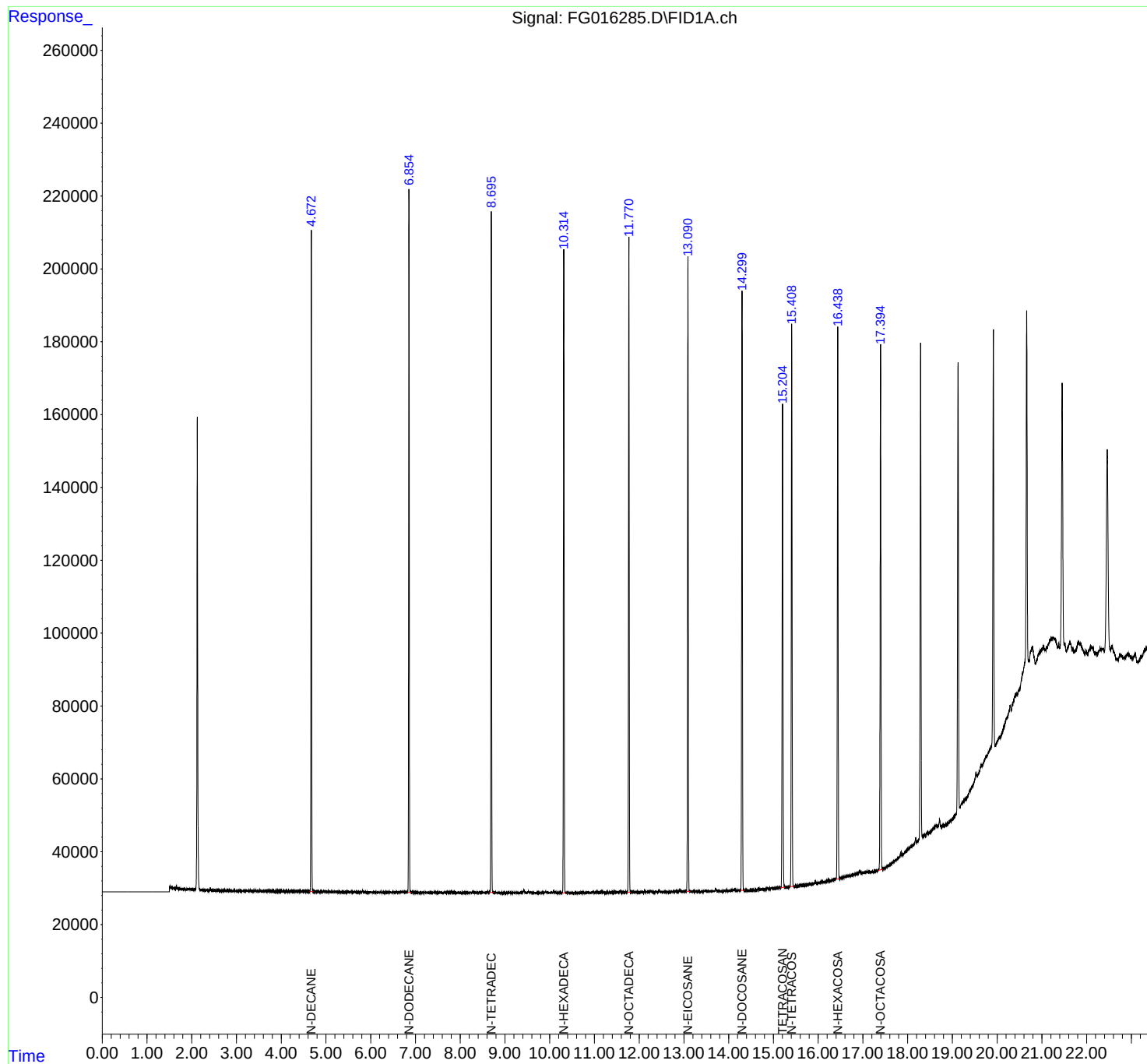
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG071025\
Data File : FG016285.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 21:11
Operator : YP\AJ
Sample : PB168751BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB168751BS

Integration File: autoint1.e
Quant Time: Jul 11 04:16:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Quant Title :
QLast Update : Wed Jul 09 12:46:24 2025
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\FG071025\
Data File : FG016285.D
Signal(s) : FID1A.ch
Acq On : 10 Jul 2025 21:11
Sample : PB168751BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG070925.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.673	4.637	4.715	BB	181348	1846437	91.35%	8.807%
2	6.855	6.822	6.905	BB	192799	1896017	93.80%	9.043%
3	8.695	8.651	8.743	BB	186799	1927691	95.37%	9.194%
4	10.315	10.272	10.359	BB	176235	1932364	95.60%	9.217%
5	11.770	11.731	11.808	BB	179854	1978951	97.90%	9.439%
6	13.090	13.054	13.136	BB	173509	2021349	100.00%	9.641%
7	14.299	14.251	14.353	BB	164487	1953472	96.64%	9.317%
8	15.204	15.157	15.258	BB	131904	1792766	88.69%	8.551%
9	15.409	15.359	15.461	BB	153080	1931995	95.58%	9.215%
10	16.439	16.386	16.476	BB	151156	1853506	91.70%	8.841%
11	17.394	17.329	17.434	BB	143812	1831410	90.60%	8.735%
Sum of corrected areas:						20965958		

FG070925.M Fri Jul 11 04:54:37 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	G4(6-12)MS	SDG No.:	Q2514
Lab Sample ID:	Q2487-10MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	72.6
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
FG016249.D	1	07/08/25 08:35	07/08/25 16:54	PB168751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	18100		233	2290	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.8		37 - 130	54%	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\FG070825\
 Data File : FG016249.D
 Signal(s) : FID1A.ch
 Acq On : 08 Jul 2025 16:54
 Operator : YP\AJ
 Sample : Q2487-10MS
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 G4(6-12)MS

Integration File: Sample.e
 Quant Time: Jul 09 03:14:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
 Quant Title :
 QLast Update : Fri Jun 13 12:34:28 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.201	1266515	10.797 ug/ml
Target Compounds			
2) N-DECANE	4.672	1710945	13.637 ug/ml
3) N-DODECANE	6.854	1815818	14.230 ug/ml
4) N-TETRADECANE	8.694	1902281	14.740 ug/ml
5) N-HEXADECANE	10.314	1916070	14.680 ug/ml
6) N-OCTADECANE	11.768	1952138	14.577 ug/ml
7) N-EICOSANE	13.088	2003949	14.814 ug/ml
8) N-DOCOSANE	14.296	1973736	14.971 ug/ml
10) N-TETRACOSANE	15.406	2011381	15.269 ug/ml
11) N-HEXACOSANE	16.435	1921636	14.679 ug/ml
12) N-OCTACOSANE	17.392	1956081	15.142 ug/ml

(f)=RT Delta > 1/2 Window

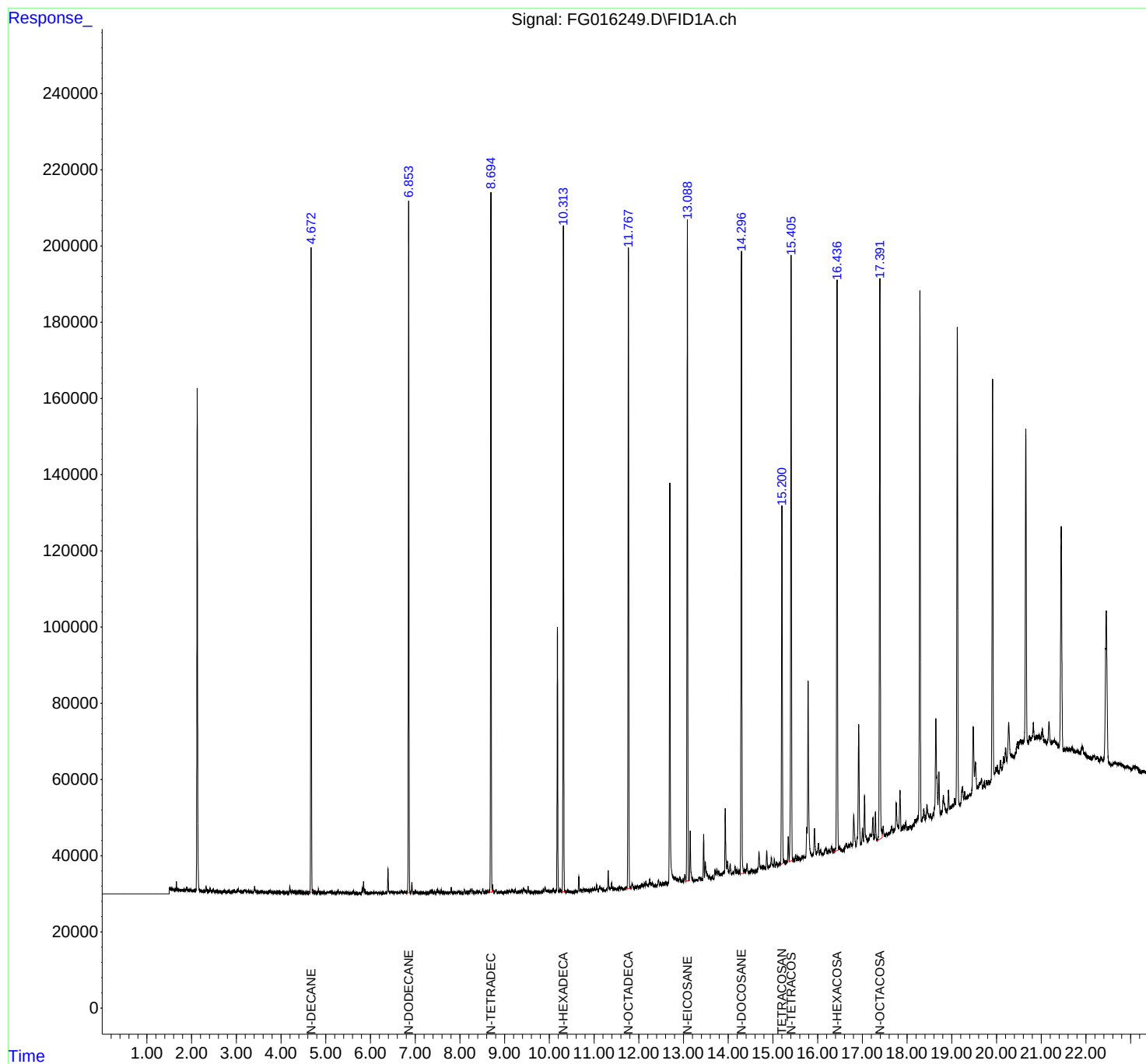
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016249.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 16:54
Operator : YP\AJ
Sample : Q2487-10MS
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
G4(6-12)MS

Integration File: Sample.e
Quant Time: Jul 09 03:14:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
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\FG070825\
 Data File : FG016249.D
 Signal(s) : FID1A.ch
 Acq On : 08 Jul 2025 16:54
 Sample : Q2487-10MS
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.589	4.585	4.597	HH	298	1896	0.06%	0.004%
2	4.613	4.597	4.621	HH	287	3397	0.12%	0.006%
3	4.632	4.621	4.643	HH	398	4519	0.15%	0.009%
4	4.672	4.643	4.702	HH	169567	1724914	58.61%	3.274%
5	4.713	4.702	4.731	HH	676	8585	0.29%	0.016%
6	4.734	4.731	4.739	HH	357	1479	0.05%	0.003%
7	4.764	4.739	4.777	HH	398	7489	0.25%	0.014%
8	4.789	4.777	4.812	HH	363	4836	0.16%	0.009%
9	4.837	4.812	4.861	HH	1363	16808	0.57%	0.032%
10	4.865	4.861	4.877	HH	294	2230	0.08%	0.004%
11	4.897	4.877	4.902	HH	295	3630	0.12%	0.007%
12	4.906	4.902	4.934	HH	347	4584	0.16%	0.009%
13	4.959	4.934	4.977	HH	493	6749	0.23%	0.013%
14	4.983	4.977	5.004	HH	285	4016	0.14%	0.008%
15	5.038	5.004	5.058	HH	534	10999	0.37%	0.021%
16	5.086	5.058	5.114	HH	478	14254	0.48%	0.027%
17	5.117	5.114	5.161	HH	414	8962	0.30%	0.017%
18	5.188	5.161	5.211	HH	351	7393	0.25%	0.014%
19	5.221	5.211	5.246	HH	242	3686	0.13%	0.007%
20	5.256	5.246	5.262	HH	250	2141	0.07%	0.004%
21	5.277	5.262	5.302	HH	1188	13783	0.47%	0.026%
22	5.309	5.302	5.320	HH	333	2998	0.10%	0.006%
23	5.326	5.320	5.348	HH	413	5037	0.17%	0.010%
24	5.354	5.348	5.365	HH	299	2112	0.07%	0.004%
25	5.385	5.365	5.415	HH	511	8974	0.30%	0.017%
26	5.434	5.415	5.449	HH	352	4917	0.17%	0.009%
27	5.494	5.449	5.514	HH	383	10780	0.37%	0.020%
28	5.553	5.514	5.568	HH	233	4801	0.16%	0.009%
29	5.573	5.568	5.582	HH	161	1023	0.03%	0.002%
30	5.619	5.582	5.644	HH	827	12582	0.43%	0.024%
31	5.654	5.644	5.672	HH	251	3023	0.10%	0.006%
32	5.694	5.672	5.712	HH	254	3703	0.13%	0.007%
33	5.726	5.712	5.732	HH	137	1236	0.04%	0.002%
34	5.737	5.732	5.743	HH	135	700	0.02%	0.001%
35	5.751	5.743	5.779	HH	172	2352	0.08%	0.004%
36	5.784	5.779	5.790	HH	127	549	0.02%	0.001%

					rteres			
37	5.816	5.790	5.830	HH	1526	16051	0.55%	0.030%
38	5.846	5.830	5.864	HH	3198	32512	1.10%	0.062%
39	5.876	5.864	5.904	HH	1189	13684	0.46%	0.026%
40	5.917	5.904	5.929	HH	308	3371	0.11%	0.006%
41	5.932	5.929	5.943	HH	214	1200	0.04%	0.002%
42	5.952	5.943	5.977	HH	168	2470	0.08%	0.005%
43	6.005	5.977	6.031	HH	432	7860	0.27%	0.015%
44	6.063	6.031	6.103	HH	340	10186	0.35%	0.019%
45	6.131	6.103	6.162	HH	422	8914	0.30%	0.017%
46	6.185	6.162	6.202	HH	329	5094	0.17%	0.010%
47	6.207	6.202	6.248	HH	228	3478	0.12%	0.007%
48	6.255	6.248	6.286	HH	252	4743	0.16%	0.009%
49	6.293	6.286	6.323	HH	233	2898	0.10%	0.006%
50	6.350	6.323	6.370	HH	470	7948	0.27%	0.015%
51	6.393	6.370	6.434	HH	6563	74024	2.52%	0.141%
52	6.463	6.434	6.481	HH	691	12835	0.44%	0.024%
53	6.498	6.481	6.525	HH	469	8026	0.27%	0.015%
54	6.543	6.525	6.548	HH	421	4135	0.14%	0.008%
55	6.563	6.548	6.606	HH	523	12173	0.41%	0.023%
56	6.612	6.606	6.634	HH	300	3887	0.13%	0.007%
57	6.650	6.634	6.658	HH	346	4018	0.14%	0.008%
58	6.687	6.658	6.703	HH	966	14414	0.49%	0.027%
59	6.714	6.703	6.722	HH	463	4723	0.16%	0.009%
60	6.734	6.722	6.739	HH	410	3712	0.13%	0.007%
61	6.755	6.739	6.792	HH	716	14065	0.48%	0.027%
62	6.799	6.792	6.811	HH	349	3345	0.11%	0.006%
63	6.854	6.811	6.906	HH	181998	1831536	62.24%	3.477%
64	6.926	6.906	6.966	HH	3049	34901	1.19%	0.066%
65	6.973	6.966	6.989	HH	314	3348	0.11%	0.006%
66	7.008	6.989	7.034	HH	901	12303	0.42%	0.023%
67	7.048	7.034	7.072	HH	516	7595	0.26%	0.014%
68	7.080	7.072	7.097	HH	279	2896	0.10%	0.005%
69	7.108	7.097	7.119	HH	216	2159	0.07%	0.004%
70	7.139	7.119	7.158	HH	452	6763	0.23%	0.013%
71	7.182	7.158	7.214	HH	410	9082	0.31%	0.017%
72	7.226	7.214	7.238	HH	201	2213	0.08%	0.004%
73	7.248	7.238	7.254	HH	247	1846	0.06%	0.004%
74	7.262	7.254	7.281	HH	296	4125	0.14%	0.008%
75	7.282	7.281	7.303	HH	215	2005	0.07%	0.004%
76	7.314	7.303	7.327	HH	358	3193	0.11%	0.006%
77	7.341	7.327	7.355	HH	827	9486	0.32%	0.018%
78	7.373	7.355	7.381	HH	651	9087	0.31%	0.017%
79	7.389	7.381	7.415	HH	699	9726	0.33%	0.018%
80	7.430	7.415	7.461	HH	575	8962	0.30%	0.017%
81	7.494	7.461	7.512	HH	1065	16841	0.57%	0.032%
82	7.530	7.512	7.562	HH	684	13429	0.46%	0.025%
83	7.580	7.562	7.613	HH	1099	16448	0.56%	0.031%
84	7.634	7.613	7.657	HH	747	10181	0.35%	0.019%
85	7.680	7.657	7.696	HH	489	7633	0.26%	0.014%
86	7.707	7.696	7.729	HH	279	4955	0.17%	0.009%
87	7.731	7.729	7.747	HH	234	1723	0.06%	0.003%
88	7.766	7.747	7.772	HH	292	3334	0.11%	0.006%
89	7.777	7.772	7.782	HH	298	1634	0.06%	0.003%

					rteres			
90	7.806	7.782	7.842	HH	1693	22671	0.77%	0.043%
91	7.862	7.842	7.894	HH	353	8011	0.27%	0.015%
92	7.900	7.894	7.907	HH	257	1712	0.06%	0.003%
93	7.930	7.907	7.954	HH	390	8194	0.28%	0.016%
94	7.966	7.954	7.977	HH	627	6661	0.23%	0.013%
95	7.984	7.977	8.016	HH	619	8649	0.29%	0.016%
96	8.026	8.016	8.057	HH	360	5341	0.18%	0.010%
97	8.098	8.057	8.127	HH	1043	16931	0.58%	0.032%
98	8.148	8.127	8.154	HH	363	4444	0.15%	0.008%
99	8.155	8.154	8.169	HH	382	2270	0.08%	0.004%
100	8.179	8.169	8.192	HH	315	3349	0.11%	0.006%
101	8.199	8.192	8.209	HH	290	2364	0.08%	0.004%
102	8.232	8.209	8.253	HH	1017	16744	0.57%	0.032%
103	8.268	8.253	8.286	HH	1348	17246	0.59%	0.033%
104	8.297	8.286	8.320	HH	527	7061	0.24%	0.013%
105	8.342	8.320	8.364	HH	441	7358	0.25%	0.014%
106	8.386	8.364	8.412	HH	677	12376	0.42%	0.023%
107	8.443	8.412	8.479	HH	571	15798	0.54%	0.030%
108	8.513	8.479	8.549	HH	1359	25398	0.86%	0.048%
109	8.583	8.549	8.599	HH	593	13591	0.46%	0.026%
110	8.620	8.599	8.634	HH	817	12772	0.43%	0.024%
111	8.648	8.634	8.660	HH	767	10697	0.36%	0.020%
112	8.694	8.660	8.720	HH	183977	1914255	65.05%	3.634%
113	8.732	8.720	8.766	HH	2327	31482	1.07%	0.060%
114	8.771	8.766	8.775	HH	424	2143	0.07%	0.004%
115	8.807	8.775	8.849	HH	1203	27555	0.94%	0.052%
116	8.865	8.849	8.877	HH	465	6703	0.23%	0.013%
117	8.885	8.877	8.909	HH	409	6745	0.23%	0.013%
118	8.926	8.909	8.968	HH	512	12061	0.41%	0.023%
119	8.974	8.968	8.978	HH	256	1269	0.04%	0.002%
120	8.992	8.978	9.012	HH	439	7051	0.24%	0.013%
121	9.022	9.012	9.041	HH	349	5643	0.19%	0.011%
122	9.061	9.041	9.092	HH	634	15141	0.51%	0.029%
123	9.106	9.092	9.140	HH	839	17246	0.59%	0.033%
124	9.167	9.140	9.188	HH	1160	21130	0.72%	0.040%
125	9.238	9.188	9.271	HH	1205	29810	1.01%	0.057%
126	9.297	9.271	9.312	HH	390	8478	0.29%	0.016%
127	9.326	9.312	9.336	HH	457	5774	0.20%	0.011%
128	9.348	9.336	9.363	HH	667	8757	0.30%	0.017%
129	9.384	9.363	9.401	HH	947	15467	0.53%	0.029%
130	9.423	9.401	9.471	HH	1409	36023	1.22%	0.068%
131	9.474	9.471	9.491	HH	693	5665	0.19%	0.011%
132	9.495	9.491	9.500	HH	406	2091	0.07%	0.004%
133	9.526	9.500	9.549	HH	1936	28541	0.97%	0.054%
134	9.560	9.549	9.603	HH	675	14241	0.48%	0.027%
135	9.609	9.603	9.660	HH	414	11530	0.39%	0.022%
136	9.676	9.660	9.697	HH	581	8779	0.30%	0.017%
137	9.712	9.697	9.732	HH	682	10473	0.36%	0.020%
138	9.739	9.732	9.751	HH	377	3927	0.13%	0.007%
139	9.762	9.751	9.777	HH	488	5998	0.20%	0.011%
140	9.788	9.777	9.803	HH	475	6185	0.21%	0.012%
141	9.817	9.803	9.839	HH	700	11190	0.38%	0.021%

					rteres			
142	9.865	9.839	9.883	HH	1055	18317	0.62%	0.035%
143	9.904	9.883	9.938	HH	1772	36224	1.23%	0.069%
144	9.950	9.938	9.965	HH	811	11671	0.40%	0.022%
145	9.983	9.965	10.011	HH	949	19056	0.65%	0.036%
146	10.026	10.011	10.032	HH	601	6955	0.24%	0.013%
147	10.050	10.032	10.066	HH	853	13787	0.47%	0.026%
148	10.090	10.066	10.121	HH	1419	26971	0.92%	0.051%
149	10.150	10.121	10.156	HH	893	14296	0.49%	0.027%
150	10.181	10.156	10.219	HH	69894	703616	23.91%	1.336%
151	10.246	10.219	10.281	HH	1180	29396	1.00%	0.056%
152	10.314	10.281	10.386	HH	174862	1949065	66.23%	3.700%
153	10.419	10.386	10.443	HH	830	21296	0.72%	0.040%
154	10.445	10.443	10.459	HH	520	4604	0.16%	0.009%
155	10.465	10.459	10.473	HH	455	3616	0.12%	0.007%
156	10.486	10.473	10.511	HH	593	11550	0.39%	0.022%
157	10.542	10.511	10.571	HH	494	15690	0.53%	0.030%
158	10.595	10.571	10.609	HH	860	14597	0.50%	0.028%
159	10.624	10.609	10.633	HH	652	8787	0.30%	0.017%
160	10.659	10.633	10.687	HH	4492	61530	2.09%	0.117%
161	10.705	10.687	10.729	HH	1213	23506	0.80%	0.045%
162	10.756	10.729	10.777	HH	1112	27091	0.92%	0.051%
163	10.792	10.777	10.820	HH	1145	24314	0.83%	0.046%
164	10.833	10.820	10.847	HH	1022	14992	0.51%	0.028%
165	10.861	10.847	10.896	HH	1009	25410	0.86%	0.048%
166	10.916	10.896	10.942	HH	1103	27049	0.92%	0.051%
167	10.962	10.942	10.982	HH	1255	24728	0.84%	0.047%
168	11.010	10.982	11.031	HH	1580	33523	1.14%	0.064%
169	11.058	11.031	11.096	HH	2335	53384	1.81%	0.101%
170	11.129	11.096	11.147	HH	1774	42759	1.45%	0.081%
171	11.158	11.147	11.197	HH	1429	36013	1.22%	0.068%
172	11.212	11.197	11.252	HH	1156	32718	1.11%	0.062%
173	11.282	11.252	11.294	HH	1309	26541	0.90%	0.050%
174	11.316	11.294	11.337	HH	6061	78621	2.67%	0.149%
175	11.351	11.337	11.366	HH	1491	24041	0.82%	0.046%
176	11.391	11.366	11.449	HH	2863	83920	2.85%	0.159%
177	11.453	11.449	11.477	HH	1359	21292	0.72%	0.040%
178	11.489	11.477	11.506	HH	1222	20493	0.70%	0.039%
179	11.519	11.506	11.532	HH	1290	19599	0.67%	0.037%
180	11.571	11.532	11.591	HH	1655	48229	1.64%	0.092%
181	11.604	11.591	11.619	HH	1744	25823	0.88%	0.049%
182	11.625	11.619	11.658	HH	1518	30319	1.03%	0.058%
183	11.685	11.658	11.697	HH	1399	31554	1.07%	0.060%
184	11.710	11.697	11.717	HH	1485	16981	0.58%	0.032%
185	11.768	11.717	11.822	HH	169221	2041778	69.38%	3.876%
186	11.849	11.822	11.897	HH	2605	85405	2.90%	0.162%
187	11.925	11.897	11.944	HH	1892	46398	1.58%	0.088%
188	11.967	11.944	11.993	HH	2123	52434	1.78%	0.100%
189	12.016	11.993	12.032	HH	2136	44696	1.52%	0.085%
190	12.075	12.032	12.102	HH	2348	87012	2.96%	0.165%
191	12.126	12.102	12.142	HH	2903	55081	1.87%	0.105%
192	12.159	12.142	12.175	HH	3324	53907	1.83%	0.102%
193	12.186	12.175	12.207	HH	2441	42397	1.44%	0.080%
194	12.243	12.207	12.267	HH	3808	101650	3.45%	0.193%

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195	12.277	12.267	12.292	HH	2853	39972	1.36%	0.076%
196	12.306	12.292	12.337	HH	2997	65490	2.23%	0.124%
197	12.380	12.337	12.402	HH	2182	77912	2.65%	0.148%
198	12.441	12.402	12.464	HH	3582	101504	3.45%	0.193%
199	12.485	12.464	12.512	HH	2998	74215	2.52%	0.141%
200	12.535	12.512	12.554	HH	3091	66977	2.28%	0.127%
201	12.603	12.554	12.622	HH	3247	111804	3.80%	0.212%
202	12.639	12.622	12.647	HH	2709	39209	1.33%	0.074%
203	12.695	12.647	12.769	HH	108080	1502516	51.06%	2.852%
204	12.779	12.769	12.796	HH	4498	66810	2.27%	0.127%
205	12.809	12.796	12.896	HH	4162	230002	7.82%	0.437%
206	12.916	12.896	12.961	HH	4398	143733	4.88%	0.273%
207	12.983	12.961	12.996	HH	3474	68843	2.34%	0.131%
208	13.031	12.996	13.054	HH	5019	141684	4.81%	0.269%
209	13.087	13.054	13.125	HH	176218	2148111	72.99%	4.078%
210	13.151	13.125	13.190	HH	16521	298967	10.16%	0.567%
211	13.200	13.190	13.227	HH	4147	83008	2.82%	0.158%
212	13.239	13.227	13.256	HH	3440	58634	1.99%	0.111%
213	13.259	13.256	13.267	HH	3501	23346	0.79%	0.044%
214	13.285	13.267	13.300	HH	3749	71730	2.44%	0.136%
215	13.313	13.300	13.322	HH	3589	47959	1.63%	0.091%
216	13.344	13.322	13.387	HH	4319	154049	5.23%	0.292%
217	13.394	13.387	13.427	HH	3925	89973	3.06%	0.171%
218	13.452	13.427	13.472	HH	15656	225076	7.65%	0.427%
219	13.490	13.472	13.527	HH	8284	206198	7.01%	0.391%
220	13.540	13.527	13.561	HH	5020	92517	3.14%	0.176%
221	13.579	13.561	13.601	HH	4799	102850	3.49%	0.195%
222	13.626	13.601	13.636	HH	4416	86459	2.94%	0.164%
223	13.651	13.636	13.678	HH	4641	107496	3.65%	0.204%
224	13.704	13.678	13.725	HH	6146	145331	4.94%	0.276%
225	13.747	13.725	13.771	HH	6247	153817	5.23%	0.292%
226	13.786	13.771	13.819	HH	5903	154714	5.26%	0.294%
227	13.850	13.819	13.864	HH	5223	136765	4.65%	0.260%
228	13.882	13.864	13.893	HH	5435	92363	3.14%	0.175%
229	13.934	13.893	13.969	HH	22115	456232	15.50%	0.866%
230	13.985	13.969	14.011	HH	8398	172978	5.88%	0.328%
231	14.044	14.011	14.077	HH	7827	246822	8.39%	0.469%
232	14.113	14.077	14.124	HH	5622	150261	5.11%	0.285%
233	14.152	14.124	14.176	HH	7079	187752	6.38%	0.356%
234	14.193	14.176	14.214	HH	6386	133155	4.52%	0.253%
235	14.244	14.214	14.261	HH	6162	160740	5.46%	0.305%
236	14.296	14.261	14.349	HH	168749	2255001	76.63%	4.280%
237	14.363	14.349	14.382	HH	6499	120427	4.09%	0.229%
238	14.422	14.382	14.461	HH	7711	296826	10.09%	0.563%
239	14.472	14.461	14.485	HH	5698	81047	2.75%	0.154%
240	14.527	14.485	14.567	HH	6232	286647	9.74%	0.544%
241	14.588	14.567	14.628	HH	6028	216321	7.35%	0.411%
242	14.688	14.628	14.747	HH	10953	524226	17.81%	0.995%
243	14.783	14.747	14.804	HH	7266	237222	8.06%	0.450%
244	14.817	14.804	14.834	HH	6973	121664	4.13%	0.231%
245	14.861	14.834	14.909	HH	11192	363797	12.36%	0.691%
246	14.965	14.909	15.012	HH	9470	480538	16.33%	0.912%

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247	15.030	15.012	15.052	HH	9100	191986	6.52%	0.364%
248	15.081	15.052	15.116	HH	8300	293319	9.97%	0.557%
249	15.148	15.116	15.165	HH	8029	231388	7.86%	0.439%
250	15.201	15.165	15.237	HH	101854	1604888	54.53%	3.046%
251	15.250	15.237	15.276	HH	8636	191088	6.49%	0.363%
252	15.294	15.276	15.312	HH	8729	182404	6.20%	0.346%
253	15.343	15.312	15.363	HH	14954	328015	11.15%	0.623%
254	15.406	15.363	15.468	HH	167386	2561199	87.03%	4.862%
255	15.507	15.468	15.528	HH	10189	328789	11.17%	0.624%
256	15.549	15.528	15.566	HH	9849	212469	7.22%	0.403%
257	15.583	15.566	15.622	HH	9273	308421	10.48%	0.585%
258	15.647	15.622	15.675	HH	9708	295965	10.06%	0.562%
259	15.686	15.675	15.726	HH	9634	289109	9.82%	0.549%
260	15.787	15.726	15.876	HH	55221	1646444	55.95%	3.125%
261	15.929	15.876	15.965	HH	17136	652978	22.19%	1.239%
262	15.982	15.965	15.994	HH	11033	184983	6.29%	0.351%
263	16.017	15.994	16.044	HH	13092	350619	11.91%	0.666%
264	16.061	16.044	16.091	HH	11538	304683	10.35%	0.578%
265	16.104	16.091	16.132	HH	10617	262110	8.91%	0.498%
266	16.187	16.132	16.212	HH	11844	538094	18.28%	1.021%
267	16.221	16.212	16.230	HH	10899	114332	3.89%	0.217%
268	16.255	16.230	16.282	HH	11610	346067	11.76%	0.657%
269	16.310	16.282	16.338	HH	12222	389417	13.23%	0.739%
270	16.356	16.338	16.372	HH	11528	233713	7.94%	0.444%
271	16.435	16.372	16.481	HH	161441	2650499	90.06%	5.031%
272	16.497	16.481	16.526	HH	12384	318765	10.83%	0.605%
273	16.532	16.526	16.584	HH	11571	399858	13.59%	0.759%
274	16.638	16.584	16.673	HH	13124	657219	22.33%	1.248%
275	16.695	16.673	16.717	HH	13035	325351	11.06%	0.618%
276	16.742	16.717	16.775	HH	13212	452954	15.39%	0.860%
277	16.808	16.775	16.861	HH	20650	788777	26.80%	1.497%
278	16.919	16.861	16.972	HH	44411	1366880	46.45%	2.595%
279	17.003	16.972	17.026	HH	17304	480490	16.33%	0.912%
280	17.049	17.026	17.111	HH	25447	873514	29.68%	1.658%
281	17.119	17.111	17.126	HH	14103	128515	4.37%	0.244%
282	17.138	17.126	17.147	HH	14320	182075	6.19%	0.346%
283	17.175	17.147	17.204	HH	15616	510734	17.35%	0.969%
284	17.235	17.204	17.261	HH	19971	568411	19.31%	1.079%
285	17.292	17.261	17.327	HH	21549	661058	22.46%	1.255%
286	17.392	17.327	17.442	HH	160554	2942889	100.00%	5.586%
287	17.467	17.442	17.494	HH	17691	505792	17.19%	0.960%
					Sum of corrected areas:	52681920		

FG061325.M Wed Jul 09 05:45:34 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	G4(6-12)MSD	SDG No.:	Q2514
Lab Sample ID:	Q2487-10MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	72.6
Sample Wt/Vol:	30.06	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
FG016250.D	1	07/08/25 08:35	07/08/25 17:24	PB168751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	18500		232	2290	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.8		37 - 130	54%	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\FG070825\
 Data File : FG016250.D
 Signal(s) : FID1A.ch
 Acq On : 08 Jul 2025 17:24
 Operator : YP\AJ
 Sample : Q2487-10MSD
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 G4(6-12)MSD

Integration File: Sample.e
 Quant Time: Jul 09 03:14:46 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
 Quant Title :
 QLast Update : Fri Jun 13 12:34:28 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.202	1260917	10.749 ug/ml
Target Compounds			
2) N-DECANE	4.673	1695234	13.512 ug/ml
3) N-DODECANE	6.854	1803777	14.136 ug/ml
4) N-TETRADECANE	8.695	1876960	14.544 ug/ml
5) N-HEXADECANE	10.314	1908966	14.626 ug/ml
6) N-OCTADECANE	11.768	1945751	14.529 ug/ml
7) N-EICOSANE	13.088	2001206	14.793 ug/ml
8) N-DOCOSANE	14.296	1970517	14.947 ug/ml
10) N-TETRACOSANE	15.408	2006809	15.234 ug/ml
11) N-HEXACOSANE	16.435	1901052	14.522 ug/ml
12) N-OCTACOSANE	17.392	1958483	15.160 ug/ml

(f)=RT Delta > 1/2 Window

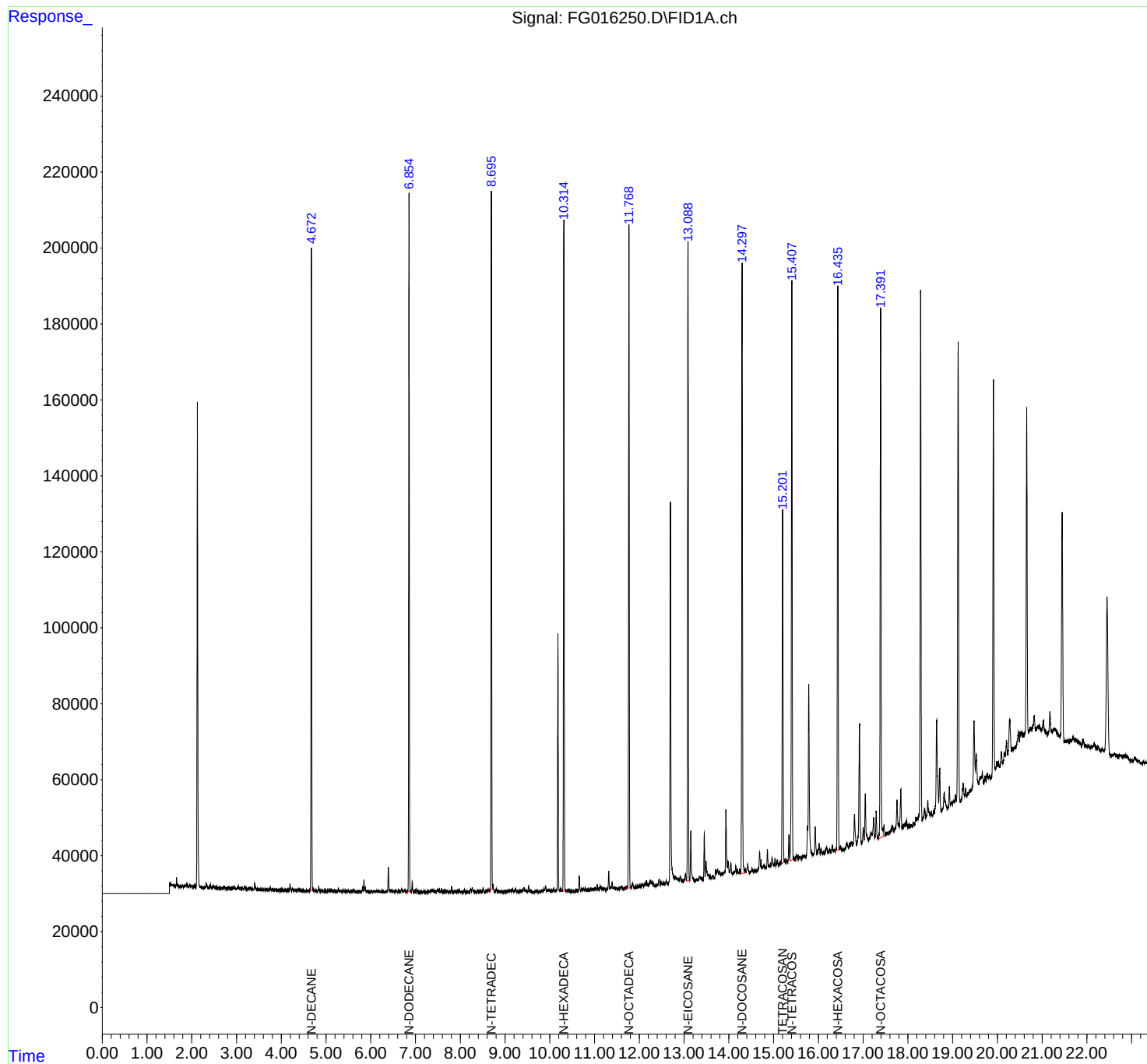
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
Data File : FG016250.D
Signal(s) : FID1A.ch
Acq On : 08 Jul 2025 17:24
Operator : YP\AJ
Sample : Q2487-10MSD
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
G4(6-12)MSD

Integration File: Sample.e
Quant Time: Jul 09 03:14:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
Quant Title :
QLast Update : Fri Jun 13 12:34:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070825\
 Data File : FG016250.D
 Signal(s) : FID1A.ch
 Acq On : 08 Jul 2025 17:24
 Sample : Q2487-10MSD
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG061325.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.632	4.602	4.639	HH	861	17993	0.60%	0.033%
2	4.673	4.639	4.700	HH	169822	1727609	57.80%	3.196%
3	4.711	4.700	4.730	HH	1194	17156	0.57%	0.032%
4	4.758	4.730	4.774	HH	878	20569	0.69%	0.038%
5	4.792	4.774	4.816	HH	761	17234	0.58%	0.032%
6	4.837	4.816	4.861	HH	1777	28458	0.95%	0.053%
7	4.866	4.861	4.892	HH	671	12066	0.40%	0.022%
8	4.902	4.892	4.921	HH	782	12540	0.42%	0.023%
9	4.928	4.921	4.944	HH	699	8558	0.29%	0.016%
10	4.958	4.944	4.974	HH	866	12757	0.43%	0.024%
11	4.992	4.974	5.010	HH	906	15068	0.50%	0.028%
12	5.040	5.010	5.055	HH	942	20627	0.69%	0.038%
13	5.095	5.055	5.106	HH	945	25093	0.84%	0.046%
14	5.121	5.106	5.127	HH	897	10566	0.35%	0.020%
15	5.137	5.127	5.165	HH	863	16456	0.55%	0.030%
16	5.185	5.165	5.241	HH	716	28381	0.95%	0.052%
17	5.277	5.241	5.305	HH	1535	31774	1.06%	0.059%
18	5.314	5.305	5.319	HH	681	5178	0.17%	0.010%
19	5.329	5.319	5.350	HH	833	12552	0.42%	0.023%
20	5.357	5.350	5.364	HH	588	4482	0.15%	0.008%
21	5.385	5.364	5.417	HH	885	21737	0.73%	0.040%
22	5.431	5.417	5.451	HH	761	12730	0.43%	0.024%
23	5.493	5.451	5.524	HH	766	27221	0.91%	0.050%
24	5.557	5.524	5.586	HH	596	18898	0.63%	0.035%
25	5.618	5.586	5.639	HH	1247	23319	0.78%	0.043%
26	5.655	5.639	5.679	HH	586	12368	0.41%	0.023%
27	5.681	5.679	5.684	HH	524	1456	0.05%	0.003%
28	5.693	5.684	5.709	HH	617	7887	0.26%	0.015%
29	5.730	5.709	5.760	HH	562	15096	0.51%	0.028%
30	5.762	5.760	5.784	HH	515	6060	0.20%	0.011%
31	5.787	5.784	5.794	HH	477	2625	0.09%	0.005%
32	5.817	5.794	5.830	HH	1837	23446	0.78%	0.043%
33	5.847	5.830	5.864	HH	3563	39077	1.31%	0.072%
34	5.877	5.864	5.909	HH	1537	22981	0.77%	0.043%
35	5.917	5.909	5.944	HH	659	11266	0.38%	0.021%
36	5.949	5.944	5.954	HH	450	2644	0.09%	0.005%

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37	5.962	5.954	5.980	HH	471	6768	0.23%	0.013%
38	5.984	5.980	5.990	HH	494	2732	0.09%	0.005%
39	6.007	5.990	6.034	HH	784	15530	0.52%	0.029%
40	6.065	6.034	6.075	HH	702	13632	0.46%	0.025%
41	6.083	6.075	6.101	HH	686	8945	0.30%	0.017%
42	6.131	6.101	6.159	HH	813	20420	0.68%	0.038%
43	6.187	6.159	6.199	HH	640	12739	0.43%	0.024%
44	6.207	6.199	6.224	HH	507	7262	0.24%	0.013%
45	6.233	6.224	6.240	HH	512	4688	0.16%	0.009%
46	6.256	6.240	6.284	HH	618	14142	0.47%	0.026%
47	6.296	6.284	6.320	HH	530	9850	0.33%	0.018%
48	6.352	6.320	6.369	HH	775	16146	0.54%	0.030%
49	6.393	6.369	6.439	HH	6883	87505	2.93%	0.162%
50	6.464	6.439	6.484	HH	920	19571	0.65%	0.036%
51	6.496	6.484	6.522	HH	739	12783	0.43%	0.024%
52	6.543	6.522	6.551	HH	625	9293	0.31%	0.017%
53	6.563	6.551	6.579	HH	742	10670	0.36%	0.020%
54	6.583	6.579	6.605	HH	660	8730	0.29%	0.016%
55	6.614	6.605	6.664	HH	1054	18738	0.63%	0.035%
56	6.688	6.664	6.724	HH	1176	28207	0.94%	0.052%
57	6.732	6.724	6.740	HH	644	6105	0.20%	0.011%
58	6.757	6.740	6.792	HH	984	21646	0.72%	0.040%
59	6.803	6.792	6.822	HH	590	9805	0.33%	0.018%
60	6.854	6.822	6.904	HH	184421	1830456	61.24%	3.386%
61	6.926	6.904	6.967	HH	3145	45988	1.54%	0.085%
62	6.977	6.967	6.987	HH	525	6038	0.20%	0.011%
63	7.009	6.987	7.031	HH	1126	18707	0.63%	0.035%
64	7.049	7.031	7.070	HH	739	13033	0.44%	0.024%
65	7.082	7.070	7.105	HH	473	8261	0.28%	0.015%
66	7.140	7.105	7.160	HH	610	14438	0.48%	0.027%
67	7.189	7.160	7.212	HH	597	15139	0.51%	0.028%
68	7.221	7.212	7.235	HH	393	5514	0.18%	0.010%
69	7.267	7.235	7.285	HH	588	13275	0.44%	0.025%
70	7.291	7.285	7.297	HH	406	2898	0.10%	0.005%
71	7.309	7.297	7.324	HH	504	7081	0.24%	0.013%
72	7.343	7.324	7.357	HH	1061	15706	0.53%	0.029%
73	7.383	7.357	7.412	HH	865	24972	0.84%	0.046%
74	7.431	7.412	7.462	HH	768	16771	0.56%	0.031%
75	7.494	7.462	7.514	HH	1257	23761	0.79%	0.044%
76	7.527	7.514	7.557	HH	945	18153	0.61%	0.034%
77	7.579	7.557	7.619	HH	1301	24449	0.82%	0.045%
78	7.636	7.619	7.660	HH	994	14826	0.50%	0.027%
79	7.675	7.660	7.747	HH	660	25085	0.84%	0.046%
80	7.806	7.747	7.840	HH	1886	38280	1.28%	0.071%
81	7.863	7.840	7.878	HH	527	10091	0.34%	0.019%
82	7.888	7.878	7.907	HH	529	7986	0.27%	0.015%
83	7.927	7.907	7.954	HH	576	13894	0.46%	0.026%
84	7.968	7.954	7.979	HH	902	10401	0.35%	0.019%
85	7.984	7.979	8.010	HH	811	11343	0.38%	0.021%
86	8.025	8.010	8.057	HH	499	11596	0.39%	0.021%
87	8.069	8.057	8.079	HH	436	4903	0.16%	0.009%
88	8.098	8.079	8.130	HH	1225	20497	0.69%	0.038%
89	8.153	8.130	8.169	HH	501	10087	0.34%	0.019%

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90	8.181	8.169	8.192	HH	482	6034	0.20%	0.011%
91	8.202	8.192	8.210	HH	399	4368	0.15%	0.008%
92	8.232	8.210	8.252	HH	1221	20783	0.70%	0.038%
93	8.268	8.252	8.324	HH	1627	32703	1.09%	0.060%
94	8.341	8.324	8.359	HH	598	9868	0.33%	0.018%
95	8.385	8.359	8.409	HH	785	16535	0.55%	0.031%
96	8.441	8.409	8.462	HH	710	17833	0.60%	0.033%
97	8.513	8.462	8.546	HH	1571	35054	1.17%	0.065%
98	8.581	8.546	8.600	HH	836	19392	0.65%	0.036%
99	8.620	8.600	8.633	HH	960	14977	0.50%	0.028%
100	8.695	8.633	8.720	HH	183187	1924935	64.40%	3.561%
101	8.732	8.720	8.774	HH	2444	37946	1.27%	0.070%
102	8.807	8.774	8.847	HH	1325	33745	1.13%	0.062%
103	8.864	8.847	8.885	HH	634	12579	0.42%	0.023%
104	8.894	8.885	8.908	HH	592	7055	0.24%	0.013%
105	8.925	8.908	8.960	HH	696	16126	0.54%	0.030%
106	8.998	8.960	9.035	HH	627	21791	0.73%	0.040%
107	9.061	9.035	9.090	HH	765	21042	0.70%	0.039%
108	9.106	9.090	9.139	HH	1011	21960	0.73%	0.041%
109	9.167	9.139	9.215	HH	1286	36278	1.21%	0.067%
110	9.237	9.215	9.277	HH	1382	28683	0.96%	0.053%
111	9.293	9.277	9.313	HH	575	11195	0.37%	0.021%
112	9.324	9.313	9.335	HH	686	7476	0.25%	0.014%
113	9.350	9.335	9.365	HH	786	11792	0.39%	0.022%
114	9.382	9.365	9.399	HH	1061	16987	0.57%	0.031%
115	9.422	9.399	9.464	HH	1567	40972	1.37%	0.076%
116	9.471	9.464	9.491	HH	764	10485	0.35%	0.019%
117	9.526	9.491	9.549	HH	2073	35148	1.18%	0.065%
118	9.562	9.549	9.597	HH	751	17256	0.58%	0.032%
119	9.623	9.597	9.630	HH	491	8986	0.30%	0.017%
120	9.638	9.630	9.652	HH	554	6301	0.21%	0.012%
121	9.680	9.652	9.697	HH	655	13872	0.46%	0.026%
122	9.714	9.697	9.750	HH	760	18128	0.61%	0.034%
123	9.762	9.750	9.778	HH	571	8664	0.29%	0.016%
124	9.822	9.778	9.845	HH	755	24028	0.80%	0.044%
125	9.865	9.845	9.883	HH	1136	20311	0.68%	0.038%
126	9.904	9.883	9.936	HH	1901	39305	1.31%	0.073%
127	9.948	9.936	9.961	HH	966	12806	0.43%	0.024%
128	9.981	9.961	10.014	HH	1018	25070	0.84%	0.046%
129	10.050	10.014	10.072	HH	979	26198	0.88%	0.048%
130	10.090	10.072	10.125	HH	1478	29493	0.99%	0.055%
131	10.181	10.125	10.216	HH	68291	720175	24.09%	1.332%
132	10.246	10.216	10.280	HH	1229	34309	1.15%	0.063%
133	10.314	10.280	10.369	HH	177025	1944185	65.04%	3.596%
134	10.377	10.369	10.390	HH	668	8582	0.29%	0.016%
135	10.419	10.390	10.470	HH	1003	32900	1.10%	0.061%
136	10.487	10.470	10.512	HH	650	15225	0.51%	0.028%
137	10.542	10.512	10.550	HH	639	13070	0.44%	0.024%
138	10.596	10.550	10.611	HH	926	25199	0.84%	0.047%
139	10.622	10.611	10.634	HH	1098	9773	0.33%	0.018%
140	10.659	10.634	10.689	HH	4348	65279	2.18%	0.121%
141	10.707	10.689	10.726	HH	1355	24279	0.81%	0.045%

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142	10.758	10.726	10.775	HH	1229	30266	1.01%	0.056%
143	10.792	10.775	10.822	HH	1166	29493	0.99%	0.055%
144	10.834	10.822	10.847	HH	1086	15190	0.51%	0.028%
145	10.857	10.847	10.892	HH	1147	26752	0.90%	0.049%
146	10.913	10.892	10.939	HH	1200	29396	0.98%	0.054%
147	10.961	10.939	10.985	HH	1387	31835	1.07%	0.059%
148	11.009	10.985	11.032	HH	1678	34919	1.17%	0.065%
149	11.058	11.032	11.096	HH	2392	56962	1.91%	0.105%
150	11.128	11.096	11.151	HH	1938	48504	1.62%	0.090%
151	11.160	11.151	11.194	HH	1461	33095	1.11%	0.061%
152	11.211	11.194	11.245	HH	1236	34094	1.14%	0.063%
153	11.316	11.245	11.339	HH	5977	114274	3.82%	0.211%
154	11.349	11.339	11.362	HH	1574	21671	0.73%	0.040%
155	11.392	11.362	11.415	HH	3024	62110	2.08%	0.115%
156	11.420	11.415	11.479	HH	1504	52190	1.75%	0.097%
157	11.484	11.479	11.504	HH	1363	19425	0.65%	0.036%
158	11.514	11.504	11.532	HH	1276	20854	0.70%	0.039%
159	11.541	11.532	11.551	HH	1295	14602	0.49%	0.027%
160	11.569	11.551	11.587	HH	1764	33053	1.11%	0.061%
161	11.604	11.587	11.648	HH	1779	53958	1.81%	0.100%
162	11.768	11.648	11.820	HH	175779	2095079	70.09%	3.875%
163	11.849	11.820	11.899	HH	2641	91377	3.06%	0.169%
164	11.925	11.899	11.943	HH	1907	45289	1.52%	0.084%
165	11.969	11.943	11.994	HH	2144	56709	1.90%	0.105%
166	12.015	11.994	12.032	HH	2336	44710	1.50%	0.083%
167	12.076	12.032	12.101	HH	2429	88701	2.97%	0.164%
168	12.127	12.101	12.141	HH	2940	58073	1.94%	0.107%
169	12.158	12.141	12.179	HH	3338	61385	2.05%	0.114%
170	12.186	12.179	12.210	HH	2468	42883	1.43%	0.079%
171	12.245	12.210	12.264	HH	3613	91128	3.05%	0.169%
172	12.276	12.264	12.292	HH	2939	45204	1.51%	0.084%
173	12.306	12.292	12.335	HH	3064	65416	2.19%	0.121%
174	12.384	12.335	12.405	HH	2214	88357	2.96%	0.163%
175	12.442	12.405	12.465	HH	3674	102376	3.43%	0.189%
176	12.485	12.465	12.509	HH	3052	70523	2.36%	0.130%
177	12.535	12.509	12.560	HH	3001	83649	2.80%	0.155%
178	12.603	12.560	12.624	HH	3248	108085	3.62%	0.200%
179	12.638	12.624	12.645	HH	2812	35213	1.18%	0.065%
180	12.696	12.645	12.769	HH	102657	1499007	50.15%	2.773%
181	12.778	12.769	12.797	HH	4537	72870	2.44%	0.135%
182	12.809	12.797	12.897	HH	4277	233552	7.81%	0.432%
183	12.916	12.897	12.960	HH	4470	144307	4.83%	0.267%
184	12.981	12.960	12.994	HH	3411	66198	2.21%	0.122%
185	13.032	12.994	13.054	HH	5068	146776	4.91%	0.271%
186	13.088	13.054	13.124	HH	170958	2143536	71.71%	3.965%
187	13.151	13.124	13.190	HH	16490	304475	10.19%	0.563%
188	13.200	13.190	13.242	HH	4248	115188	3.85%	0.213%
189	13.253	13.242	13.269	HH	3559	56090	1.88%	0.104%
190	13.288	13.269	13.325	HH	3815	123800	4.14%	0.229%
191	13.347	13.325	13.380	HH	4483	134327	4.49%	0.248%
192	13.393	13.380	13.424	HH	4031	100609	3.37%	0.186%
193	13.452	13.424	13.472	HH	15970	236654	7.92%	0.438%
194	13.491	13.472	13.528	HH	8454	211143	7.06%	0.391%

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195	13.540	13.528	13.564	HH	5188	99912	3.34%	0.185%
196	13.580	13.564	13.606	HH	4774	109560	3.67%	0.203%
197	13.626	13.606	13.637	HH	4465	79721	2.67%	0.147%
198	13.651	13.637	13.679	HH	4738	109149	3.65%	0.202%
199	13.705	13.679	13.727	HH	6315	152411	5.10%	0.282%
200	13.749	13.727	13.772	HH	6295	154853	5.18%	0.286%
201	13.788	13.772	13.817	HH	5896	146725	4.91%	0.271%
202	13.830	13.817	13.839	HH	5124	67668	2.26%	0.125%
203	13.851	13.839	13.869	HH	5407	93891	3.14%	0.174%
204	13.892	13.869	13.900	HH	5609	100783	3.37%	0.186%
205	13.935	13.900	13.970	HH	21985	443993	14.85%	0.821%
206	13.987	13.970	14.010	HH	8359	170004	5.69%	0.314%
207	14.045	14.010	14.073	HH	8003	240412	8.04%	0.445%
208	14.114	14.073	14.127	HH	5662	175545	5.87%	0.325%
209	14.154	14.127	14.177	HH	7248	184626	6.18%	0.342%
210	14.195	14.177	14.216	HH	6562	137554	4.60%	0.254%
211	14.244	14.216	14.262	HH	6329	161576	5.41%	0.299%
212	14.296	14.262	14.347	HH	164912	2242486	75.02%	4.148%
213	14.364	14.347	14.384	HH	6570	134025	4.48%	0.248%
214	14.423	14.384	14.465	HH	7641	310703	10.39%	0.575%
215	14.524	14.465	14.560	HH	6242	334667	11.20%	0.619%
216	14.584	14.560	14.614	HH	6154	195013	6.52%	0.361%
217	14.630	14.614	14.644	HH	6147	107252	3.59%	0.198%
218	14.687	14.644	14.739	HH	10842	442002	14.79%	0.818%
219	14.757	14.739	14.767	HH	7121	118496	3.96%	0.219%
220	14.783	14.767	14.803	HH	7347	155327	5.20%	0.287%
221	14.817	14.803	14.837	HH	7163	139465	4.67%	0.258%
222	14.862	14.837	14.912	HH	11650	371428	12.43%	0.687%
223	14.931	14.912	14.939	HH	7713	118663	3.97%	0.219%
224	14.965	14.939	15.006	HH	9569	329594	11.03%	0.610%
225	15.031	15.006	15.051	HH	9219	214731	7.18%	0.397%
226	15.082	15.051	15.110	HH	8638	283185	9.47%	0.524%
227	15.152	15.110	15.169	HH	8262	275555	9.22%	0.510%
228	15.202	15.169	15.240	HH	101204	1608772	53.82%	2.976%
229	15.249	15.240	15.277	HH	8734	186406	6.24%	0.345%
230	15.296	15.277	15.314	HH	8850	187132	6.26%	0.346%
231	15.343	15.314	15.362	HH	15472	325614	10.89%	0.602%
232	15.408	15.362	15.442	HH	161135	2430302	81.31%	4.495%
233	15.450	15.442	15.469	HH	9603	146792	4.91%	0.272%
234	15.508	15.469	15.529	HH	10333	341135	11.41%	0.631%
235	15.550	15.529	15.574	HH	10174	257605	8.62%	0.477%
236	15.584	15.574	15.624	HH	9571	280873	9.40%	0.520%
237	15.658	15.624	15.669	HH	9887	259954	8.70%	0.481%
238	15.690	15.669	15.717	HH	9962	283084	9.47%	0.524%
239	15.786	15.717	15.872	HH	55042	1693885	56.67%	3.133%
240	15.890	15.872	15.900	HH	10426	173596	5.81%	0.321%
241	15.930	15.900	15.967	HH	17631	520089	17.40%	0.962%
242	15.981	15.967	15.992	HH	11321	162961	5.45%	0.301%
243	16.017	15.992	16.044	HH	13174	366077	12.25%	0.677%
244	16.060	16.044	16.095	HH	11562	340839	11.40%	0.630%
245	16.104	16.095	16.132	HH	10859	234313	7.84%	0.433%
246	16.185	16.132	16.222	HH	12157	607748	20.33%	1.124%

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247	16.259	16.222	16.285	HH	11557	424739	14.21%	0.786%
248	16.308	16.285	16.339	HH	12502	374484	12.53%	0.693%
249	16.355	16.339	16.380	HH	11501	283713	9.49%	0.525%
250	16.436	16.380	16.477	HH	159391	2568038	85.91%	4.750%
251	16.495	16.477	16.522	HH	12471	323056	10.81%	0.598%
252	16.534	16.522	16.564	HH	11776	290705	9.73%	0.538%
253	16.634	16.564	16.679	HH	13170	841059	28.14%	1.556%
254	16.696	16.679	16.713	HH	13171	261796	8.76%	0.484%
255	16.742	16.713	16.768	HH	13612	432712	14.48%	0.800%
256	16.808	16.768	16.858	HH	20916	828275	27.71%	1.532%
257	16.919	16.858	16.970	HH	44641	1396043	46.71%	2.582%
258	17.004	16.970	17.024	HH	17394	487009	16.29%	0.901%
259	17.049	17.024	17.120	HH	26198	986618	33.01%	1.825%
260	17.176	17.120	17.205	HH	15996	775223	25.94%	1.434%
261	17.235	17.205	17.264	HH	20037	595278	19.92%	1.101%
262	17.293	17.264	17.334	HH	21656	705329	23.60%	1.305%
263	17.392	17.334	17.450	HH	153473	2989050	100.00%	5.529%
264	17.466	17.450	17.500	HHA	18019	504676	16.88%	0.934%
					Sum of corrected areas:	54061883		

FG061325.M Wed Jul 09 05:45:58 2025

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
Q2487-11		FF016102.D	FF070825	TETRACOSANE-d50 (SURROGA	mohammad	7/10/2025 2:04:03 AM	Peak Integrated by Software incorrectly
Q2487-13		FF016103.D	FF070825	TETRACOSANE-d50 (SURROGA	mohammad	7/10/2025 2:04:03 AM	Peak Integrated by Software incorrectly
Q2487-14		FF016104.D	FF070825	TETRACOSANE-d50 (SURROGA	mohammad	7/10/2025 2:04:03 AM	Peak Integrated by Software incorrectly
Q2514-06		FF016109.D	FF070825	TETRACOSANE-d50 (SURROGA	mohammad	7/10/2025 2:04:03 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
Q2514-05		FG016256.D	FG070825	TETRACOSANE-d50 (SURROGA	mohammad	7/10/2025 2:04:09 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
50 PPM TRPH STD		FG016281.D	FG071025	N-OCTACOSANE	 	 	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG016283.D	FG071025	N-OCTACOSANE	 	 	Peak Integrated by Software incorrectly

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF061325

Review By	yogesh	Review On	6/13/2025 11:34:17 AM
Supervise By	mohammad	Supervise On	6/17/2025 3:40:22 AM
SubDirectory	FF061325	HP Acquire Method	HP Processing Method FF061325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM	PP24469		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF015962.D	13 Jun 2025 08:42	YP\AJ	Ok
2	I.BLK	FF015963.D	13 Jun 2025 12:37	YP\AJ	Ok
3	100 TRPH STD	FF015964.D	13 Jun 2025 13:06	YP\AJ	Ok
4	50 TRPH STD	FF015965.D	13 Jun 2025 13:35	YP\AJ	Ok
5	20 TRPH STD	FF015966.D	13 Jun 2025 14:05	YP\AJ	Ok
6	10 TRPH STD	FF015967.D	13 Jun 2025 14:34	YP\AJ	Ok
7	5 TRPH STD	FF015968.D	13 Jun 2025 15:03	YP\AJ	Ok
8	FF061325ICV	FF015969.D	13 Jun 2025 15:33	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF070825

Review By	yogesh	Review On	7/8/2025 1:13:33 PM
Supervise By	mohammad	Supervise On	7/10/2025 2:04:03 AM
SubDirectory	FF070825	HP Acquire Method	HP Processing Method FF061325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24469 PP24468,PP24473		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF016096.D	08 Jul 2025 09:48	YP\AJ	Ok
2	I.BLK	FF016097.D	08 Jul 2025 10:54	YP\AJ	Ok
3	50 PPM TRPH STD	FF016098.D	08 Jul 2025 11:55	YP\AJ	Ok
4	RT MARKER	FF016099.D	08 Jul 2025 12:54	YP\AJ	Ok
5	Q2487-09	FF016100.D	08 Jul 2025 13:24	YP\AJ	Dilution
6	Q2514-10	FF016101.D	08 Jul 2025 13:54	YP\AJ	Ok
7	Q2487-11	FF016102.D	08 Jul 2025 14:24	YP\AJ	Dilution
8	Q2487-13	FF016103.D	08 Jul 2025 14:54	YP\AJ	Dilution
9	Q2487-14	FF016104.D	08 Jul 2025 15:24	YP\AJ	Dilution
10	I.BLK	FF016105.D	08 Jul 2025 15:54	YP\AJ	Ok
11	50 PPM TRPH STD	FF016106.D	08 Jul 2025 16:54	YP\AJ	Ok
12	Q2514-02	FF016107.D	08 Jul 2025 17:54	YP\AJ	Ok
13	Q2514-04	FF016108.D	08 Jul 2025 18:24	YP\AJ	Ok
14	Q2514-06	FF016109.D	08 Jul 2025 18:54	YP\AJ	Ok,M
15	Q2487-15	FF016110.D	08 Jul 2025 19:24	YP\AJ	Dilution
16	Q2487-16	FF016111.D	08 Jul 2025 19:54	YP\AJ	Dilution
17	Q2487-09	FF016112.D	08 Jul 2025 20:23	YP\AJ	Ok
18	I.BLK	FF016113.D	08 Jul 2025 20:54	YP\AJ	Ok
19	50 PPM TRPH STD	FF016114.D	08 Jul 2025 21:53	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG061325

Review By	yogesh	Review On	6/13/2025 11:35:23 AM
Supervise By	mohammad	Supervise On	6/17/2025 3:40:29 AM
SubDirectory	FG061325	HP Acquire Method	HP Processing Method FG061325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM	PP24469		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG016061.D	13 Jun 2025 09:11	YP\AJ	Ok
2	I.BLK	FG016062.D	13 Jun 2025 09:40	YP\AJ	Ok
3	100 TRPH STD	FG016063.D	13 Jun 2025 10:10	YP\AJ	Ok
4	50 TRPH STD	FG016064.D	13 Jun 2025 10:39	YP\AJ	Ok
5	20 TRPH STD	FG016065.D	13 Jun 2025 11:09	YP\AJ	Ok
6	10 TRPH STD	FG016066.D	13 Jun 2025 11:38	YP\AJ	Ok
7	5 TRPH STD	FG016067.D	13 Jun 2025 12:07	YP\AJ	Ok
8	FG061325ICV	FG016068.D	13 Jun 2025 12:37	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG070825

Review By	yogesh	Review On	7/8/2025 1:14:25 PM
Supervise By	mohammad	Supervise On	7/10/2025 2:04:09 AM
SubDirectory	FG070825	HP Acquire Method	HP Processing Method FG061325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24469 PP24468,PP24473		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG016243.D	08 Jul 2025 13:24	YP\AJ	Ok
2	I.BLK	FG016244.D	08 Jul 2025 13:54	YP\AJ	Ok
3	50 PPM TRPH STD	FG016245.D	08 Jul 2025 14:24	YP\AJ	Ok
4	RT MARKER	FG016246.D	08 Jul 2025 14:54	YP\AJ	Ok
5	PB168751BL	FG016247.D	08 Jul 2025 15:24	YP\AJ	Ok
6	Q2487-10	FG016248.D	08 Jul 2025 16:24	YP\AJ	Ok
7	Q2487-10MS	FG016249.D	08 Jul 2025 16:54	YP\AJ	Ok
8	Q2487-10MSD	FG016250.D	08 Jul 2025 17:24	YP\AJ	Ok
9	Q2487-12	FG016251.D	08 Jul 2025 17:54	YP\AJ	Ok
10	I.BLK	FG016252.D	08 Jul 2025 18:24	YP\AJ	Ok
11	50 PPM TRPH STD	FG016253.D	08 Jul 2025 18:54	YP\AJ	Ok
12	Q2514-01	FG016254.D	08 Jul 2025 19:54	YP\AJ	Ok
13	Q2514-03	FG016255.D	08 Jul 2025 20:23	YP\AJ	Ok
14	Q2514-05	FG016256.D	08 Jul 2025 20:54	YP\AJ	Ok,M
15	Q2514-07	FG016257.D	08 Jul 2025 21:23	YP\AJ	Ok
16	Q2514-08	FG016258.D	08 Jul 2025 21:53	YP\AJ	Ok
17	Q2514-09	FG016259.D	08 Jul 2025 22:23	YP\AJ	Ok
18	I.BLK	FG016260.D	08 Jul 2025 22:52	YP\AJ	Ok
19	50 PPM TRPH STD	FG016261.D	08 Jul 2025 23:52	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG070925

Review By	yogesh	Review On	7/9/2025 12:27:07 PM
Supervise By	mohammad	Supervise On	7/11/2025 1:37:09 AM
SubDirectory	FG070925	HP Acquire Method	HP Processing Method FG070925
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG016262.D	09 Jul 2025 09:03	YP\AJ	Ok
2	I.BLK	FG016263.D	09 Jul 2025 09:32	YP\AJ	Ok
3	100 TRPH STD	FG016264.D	09 Jul 2025 10:02	YP\AJ	Ok
4	50 TRPH STD	FG016265.D	09 Jul 2025 11:05	YP\AJ	Ok
5	20 TRPH STD	FG016266.D	09 Jul 2025 11:34	YP\AJ	Ok
6	10 TRPH STD	FG016267.D	09 Jul 2025 12:04	YP\AJ	Ok
7	5 TRPH STD	FG016268.D	09 Jul 2025 12:34	YP\AJ	Ok
8	FG070925ICV	FG016269.D	09 Jul 2025 13:04	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG071025

Review By	yogesh	Review On	7/10/2025 3:09:15 PM
Supervise By		Supervise On	
SubDirectory	FG071025	HP Acquire Method	HP Processing Method FG070925
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM	PP24469		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG016270.D	10 Jul 2025 08:46	YP\AJ	Ok
2	I.BLK	FG016271.D	10 Jul 2025 10:45	YP\AJ	Ok
3	50 PPM TRPH STD	FG016272.D	10 Jul 2025 12:44	YP\AJ	Ok
4	RT MARKER	FG016273.D	10 Jul 2025 13:13	YP\AJ	Ok
5	PB168785BL	FG016274.D	10 Jul 2025 13:43	YP\AJ	Ok
6	PB168785BS	FG016275.D	10 Jul 2025 14:13	YP\AJ	Ok
7	Q2473-01	FG016276.D	10 Jul 2025 14:43	YP\AJ	Dilution
8	Q2473-01	FG016277.D	10 Jul 2025 15:42	YP\AJ	Ok
9	Q2473-02	FG016278.D	10 Jul 2025 16:12	YP\AJ	Dilution
10	Q2473-03	FG016279.D	10 Jul 2025 16:42	YP\AJ	Dilution
11	I.BLK	FG016280.D	10 Jul 2025 17:12	YP\AJ	Ok
12	50 PPM TRPH STD	FG016281.D	10 Jul 2025 18:41	YP\AJ	Ok,NS
13	I.BLK	FG016282.D	10 Jul 2025 19:11	YP\AJ	Ok
14	50 PPM TRPH STD	FG016283.D	10 Jul 2025 19:41	YP\AJ	Ok,NS
15	RT MARKER	FG016284.D	10 Jul 2025 20:41	YP\AJ	Ok
16	PB168751BS	FG016285.D	10 Jul 2025 21:11	YP\AJ	Ok
17	I.BLK	FG016286.D	10 Jul 2025 21:41	YP\AJ	Ok
18	50 PPM TRPH STD	FG016287.D	10 Jul 2025 22:10	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF061325

Review By	yogesh	Review On	6/13/2025 11:34:17 AM
Supervise By	mohammad	Supervise On	6/17/2025 3:40:22 AM
SubDirectory	FF061325	HP Acquire Method	HP Processing Method FF061325

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC	PP24469
Internal Standard/PEM	
ICV/I.BLK	PP24468,PP24473
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FF015962.D	13 Jun 2025 08:42		YP\AJ	Ok
2	I.BLK		FF015963.D	13 Jun 2025 12:37		YP\AJ	Ok
3	100 TRPH STD		FF015964.D	13 Jun 2025 13:06		YP\AJ	Ok
4	50 TRPH STD		FF015965.D	13 Jun 2025 13:35		YP\AJ	Ok
5	20 TRPH STD		FF015966.D	13 Jun 2025 14:05		YP\AJ	Ok
6	10 TRPH STD		FF015967.D	13 Jun 2025 14:34		YP\AJ	Ok
7	5 TRPH STD		FF015968.D	13 Jun 2025 15:03		YP\AJ	Ok
8	FF061325ICV		FF015969.D	13 Jun 2025 15:33		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF070825

Review By	yogesh	Review On	7/8/2025 1:13:33 PM
Supervise By	mohammad	Supervise On	7/10/2025 2:04:03 AM
SubDirectory	FF070825	HP Acquire Method	HP Processing Method FF061325

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24469 PP24468,PP24473

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FF016096.D	08 Jul 2025 09:48		YP\AJ	Ok
2	I.BLK		FF016097.D	08 Jul 2025 10:54		YP\AJ	Ok
3	50 PPM TRPH STD		FF016098.D	08 Jul 2025 11:55		YP\AJ	Ok
4	RT MARKER		FF016099.D	08 Jul 2025 12:54		YP\AJ	Ok
5	Q2487-09		FF016100.D	08 Jul 2025 13:24	need 5x	YP\AJ	Dilution
6	Q2514-10		FF016101.D	08 Jul 2025 13:54		YP\AJ	Ok
7	Q2487-11		FF016102.D	08 Jul 2025 14:24	need 10x	YP\AJ	Dilution
8	Q2487-13		FF016103.D	08 Jul 2025 14:54	need 10x	YP\AJ	Dilution
9	Q2487-14		FF016104.D	08 Jul 2025 15:24	need 10x	YP\AJ	Dilution
10	I.BLK		FF016105.D	08 Jul 2025 15:54		YP\AJ	Ok
11	50 PPM TRPH STD		FF016106.D	08 Jul 2025 16:54		YP\AJ	Ok
12	Q2514-02		FF016107.D	08 Jul 2025 17:54		YP\AJ	Ok
13	Q2514-04		FF016108.D	08 Jul 2025 18:24		YP\AJ	Ok
14	Q2514-06		FF016109.D	08 Jul 2025 18:54		YP\AJ	Ok,M
15	Q2487-15		FF016110.D	08 Jul 2025 19:24	need 10x	YP\AJ	Dilution
16	Q2487-16		FF016111.D	08 Jul 2025 19:54	need 5x	YP\AJ	Dilution
17	Q2487-09		FF016112.D	08 Jul 2025 20:23		YP\AJ	Ok
18	I.BLK		FF016113.D	08 Jul 2025 20:54		YP\AJ	Ok

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF070825

Review By	yogesh	Review On	7/8/2025 1:13:33 PM
Supervise By	mohammad	Supervise On	7/10/2025 2:04:03 AM
SubDirectory	FF070825	HP Acquire Method	HP Processing Method FF061325

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC Internal Standard/PEM	PP24469
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473

19	50 PPM TRPH STD		FF016114.D	08 Jul 2025 21:53		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG061325

Review By	yogesh	Review On	6/13/2025 11:35:23 AM
Supervise By	mohammad	Supervise On	6/17/2025 3:40:29 AM
SubDirectory	FG061325	HP Acquire Method	HP Processing Method FG061325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC	PP24469		
Internal Standard/PEM	PP24468,PP24473		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG016061.D	13 Jun 2025 09:11		YP\AJ	Ok
2	I.BLK		FG016062.D	13 Jun 2025 09:40		YP\AJ	Ok
3	100 TRPH STD		FG016063.D	13 Jun 2025 10:10		YP\AJ	Ok
4	50 TRPH STD		FG016064.D	13 Jun 2025 10:39		YP\AJ	Ok
5	20 TRPH STD		FG016065.D	13 Jun 2025 11:09		YP\AJ	Ok
6	10 TRPH STD		FG016066.D	13 Jun 2025 11:38		YP\AJ	Ok
7	5 TRPH STD		FG016067.D	13 Jun 2025 12:07		YP\AJ	Ok
8	FG061325ICV		FG016068.D	13 Jun 2025 12:37		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG070825

Review By	yogesh	Review On	7/8/2025 1:14:25 PM
Supervise By	mohammad	Supervise On	7/10/2025 2:04:09 AM
SubDirectory	FG070825	HP Acquire Method	HP Processing Method FG061325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC	PP24469		
Internal Standard/PEM	PP24468,PP24473		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG016243.D	08 Jul 2025 13:24		YPIAJ	Ok
2	I.BLK		FG016244.D	08 Jul 2025 13:54		YPIAJ	Ok
3	50 PPM TRPH STD		FG016245.D	08 Jul 2025 14:24		YPIAJ	Ok
4	RT MARKER		FG016246.D	08 Jul 2025 14:54		YPIAJ	Ok
5	PB168751BL		FG016247.D	08 Jul 2025 15:24		YPIAJ	Ok
6	Q2487-10		FG016248.D	08 Jul 2025 16:24		YPIAJ	Ok
7	Q2487-10MS		FG016249.D	08 Jul 2025 16:54		YPIAJ	Ok
8	Q2487-10MSD		FG016250.D	08 Jul 2025 17:24		YPIAJ	Ok
9	Q2487-12		FG016251.D	08 Jul 2025 17:54		YPIAJ	Ok
10	I.BLK		FG016252.D	08 Jul 2025 18:24		YPIAJ	Ok
11	50 PPM TRPH STD		FG016253.D	08 Jul 2025 18:54		YPIAJ	Ok
12	Q2514-01		FG016254.D	08 Jul 2025 19:54		YPIAJ	Ok
13	Q2514-03		FG016255.D	08 Jul 2025 20:23		YPIAJ	Ok
14	Q2514-05		FG016256.D	08 Jul 2025 20:54		YPIAJ	Ok,M
15	Q2514-07		FG016257.D	08 Jul 2025 21:23		YPIAJ	Ok
16	Q2514-08		FG016258.D	08 Jul 2025 21:53		YPIAJ	Ok
17	Q2514-09		FG016259.D	08 Jul 2025 22:23		YPIAJ	Ok
18	I.BLK		FG016260.D	08 Jul 2025 22:52		YPIAJ	Ok

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG070825

Review By	yogesh	Review On	7/8/2025 1:14:25 PM
Supervise By	mohammad	Supervise On	7/10/2025 2:04:09 AM
SubDirectory	FG070825	HP Acquire Method	HP Processing Method FG061325

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC Internal Standard/PEM	PP24469
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473

19	50 PPM TRPH STD		FG016261.D	08 Jul 2025 23:52		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG070925

Review By	yogesh	Review On	7/9/2025 12:27:07 PM
Supervise By	mohammad	Supervise On	7/11/2025 1:37:09 AM
SubDirectory	FG070925	HP Acquire Method	HP Processing Method FG070925

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG016262.D	09 Jul 2025 09:03		YP\AJ	Ok
2	I.BLK		FG016263.D	09 Jul 2025 09:32		YP\AJ	Ok
3	100 TRPH STD		FG016264.D	09 Jul 2025 10:02		YP\AJ	Ok
4	50 TRPH STD		FG016265.D	09 Jul 2025 11:05		YP\AJ	Ok
5	20 TRPH STD		FG016266.D	09 Jul 2025 11:34		YP\AJ	Ok
6	10 TRPH STD		FG016267.D	09 Jul 2025 12:04		YP\AJ	Ok
7	5 TRPH STD		FG016268.D	09 Jul 2025 12:34		YP\AJ	Ok
8	FG070925ICV		FG016269.D	09 Jul 2025 13:04		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG071025

Review By	yogesh	Review On	7/10/2025 3:09:15 PM
Supervise By		Supervise On	
SubDirectory	FG071025	HP Acquire Method	HP Processing Method FG070925
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC	PP24469		
Internal Standard/PEM			
ICV/I.BLK	PP24468,PP24473		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG016270.D	10 Jul 2025 08:46		YP\AJ	Ok
2	I.BLK		FG016271.D	10 Jul 2025 10:45		YP\AJ	Ok
3	50 PPM TRPH STD		FG016272.D	10 Jul 2025 12:44		YP\AJ	Ok
4	RT MARKER		FG016273.D	10 Jul 2025 13:13		YP\AJ	Ok
5	PB168785BL		FG016274.D	10 Jul 2025 13:43		YP\AJ	Ok
6	PB168785BS		FG016275.D	10 Jul 2025 14:13		YP\AJ	Ok
7	Q2473-01		FG016276.D	10 Jul 2025 14:43	need 10x dilution	YP\AJ	Dilution
8	Q2473-01		FG016277.D	10 Jul 2025 15:42		YP\AJ	Ok
9	Q2473-02		FG016278.D	10 Jul 2025 16:12	need 10x dilution	YP\AJ	Dilution
10	Q2473-03		FG016279.D	10 Jul 2025 16:42	need 5x dilution	YP\AJ	Dilution
11	I.BLK		FG016280.D	10 Jul 2025 17:12		YP\AJ	Ok
12	50 PPM TRPH STD		FG016281.D	10 Jul 2025 18:41		YP\AJ	Ok,NS
13	I.BLK		FG016282.D	10 Jul 2025 19:11		YP\AJ	Ok
14	50 PPM TRPH STD		FG016283.D	10 Jul 2025 19:41		YP\AJ	Ok,NS
15	RT MARKER		FG016284.D	10 Jul 2025 20:41		YP\AJ	Ok
16	PB168751BS		FG016285.D	10 Jul 2025 21:11		YP\AJ	Ok
17	I.BLK		FG016286.D	10 Jul 2025 21:41		YP\AJ	Ok
18	50 PPM TRPH STD		FG016287.D	10 Jul 2025 22:10		YP\AJ	Ok

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG071025

Review By	yogesh	Review On	7/10/2025 3:09:15 PM
Supervise By		Supervise On	
SubDirectory	FG071025	HP Acquire Method	HP Processing Method FG070925
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM	PP24469		
ICV/I.BLK Surrogate Standard	PP24468,PP24473		
MS/MSD Standard LCS Standard			

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/7/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 07/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:37
Out Date: 07/04/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136368

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
Q2487-01	G4 (1.5)	1	1.15	10.21	11.36	10.14	88.1	
Q2487-02	G4 (10)	2	1.19	10.38	11.57	8.76	72.9	
Q2487-03	G3 (9)	3	1.15	10.66	11.81	7.38	58.4	
Q2487-04	G3 (3)	4	1.15	10.80	11.95	10.8	89.4	
Q2487-05	G2 (2.5)	5	1.17	10.00	11.17	10.48	93.1	
Q2487-06	G2 (9)	6	1.16	10.26	11.42	8.00	66.7	
Q2487-07	G1 (4.5)	7	1.19	10.11	11.3	7.8	65.4	
Q2487-08	G1 (10)	8	1.16	9.96	11.12	6.65	55.1	
Q2487-09	G4 (0-6)	9	1.18	10.26	11.44	10.12	87.1	
Q2487-10	G4 (6-12)	10	1.16	10.14	11.3	8.52	72.6	
Q2487-11	G3 (0-6)	11	1.18	10.42	11.6	10.68	91.2	
Q2487-12	G3 (6-12)	12	1.18	10.41	11.59	8.49	70.2	
Q2487-13	G2 (0-6)	13	1.17	9.95	11.12	10.11	89.8	
Q2487-14	G2 (6-12)	14	1.16	10.68	11.84	8.39	67.7	
Q2487-15	G1 (0-6)	15	1.17	10.55	11.72	9.68	80.7	
Q2487-16	G1 (6-12)	16	1.13	10.24	11.37	10.68	93.3	
Q2501-05	SVOC-GPC-BLANK	17	1.00	1.00	2.00	2.00	100.0	
Q2501-06	PEST-GPC-BLANK	18	1.00	1.00	2.00	2.00	100.0	
Q2501-07	PEST-GPC-BLANK-SPIKE	19	1.00	1.00	2.00	2.00	100.0	
Q2501-08	PCB-GPC-BLANK	20	1.00	1.00	2.00	2.00	100.0	
Q2501-09	PCB-GPC-BLANK-SPIKE	21	1.00	1.00	2.00	2.00	100.0	
Q2501-10	SVOC-GPC-BLANK	22	1.00	1.00	2.00	2.00	100.0	
Q2501-11	PEST-GPC-BLANK	23	1.00	1.00	2.00	2.00	100.0	
Q2501-12	PEST-GPC-BLANK-SPIKE	24	1.00	1.00	2.00	2.00	100.0	
Q2501-13	PCB-GPC2-BLANK	25	1.00	1.00	2.00	2.00	100.0	
Q2501-14	PCB-GPC2-BLANK-SPIKE	26	1.00	1.00	2.00	2.00	100.0	
Q2503-03	GCAP2	27	1.18	10.65	11.83	8.76	71.2	
Q2503-04	GCAP3	28	1.18	10.64	11.82	8.16	65.6	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/7/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 07/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:37
Out Date: 07/04/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136368

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
Q2503-05	GCAP2A	29	1.18	10.30	11.48	9.11	77.0	
Q2504-01	WASTE	30	1.14	10.73	11.87	10.16	84.1	
Q2504-02	VOC	31	1.18	10.81	11.99	10.45	85.8	
Q2504-03	1	32	1.14	10.84	11.98	10.36	85.1	
Q2504-04	2	33	1.19	10.41	11.6	9.91	83.8	
Q2504-05	3	34	1.13	10.75	11.88	10.22	84.6	
Q2504-06	4	35	1.14	10.52	11.66	10.03	84.5	
Q2504-07	5	36	1.12	10.87	11.99	10.16	83.2	
Q2505-01	#62825	37	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2505-02	#62525	38	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2505-03	#2008	39	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2507-01	SU-04-7.3-2025	40	1.17	10.26	11.43	10.1	87.0	
Q2507-02	SU-04-7.3-2025-EPH	41	1.18	10.30	11.48	9.99	85.5	
Q2507-03	SU-04-7.3-2025-VOC	42	1.13	10.45	11.58	9.95	84.4	
Q2508-01	AUD-25-0105	43	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2508-02	AUD-25-0106	44	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2508-03	AUD-25-0107	45	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2509-02	AUD-25-0112	46	1.00	1.00	2.00	2.00	100.0	oilly-debris
Q2510-01	#63025-A	47	1.15	11.63	12.78	10.79	82.9	
Q2510-02	#63025-A-VOC	48	1.18	10.19	11.37	9.86	85.2	
Q2513-01	HR-2-070325	49	1.18	9.89	11.07	10.51	94.3	
Q2513-02	HR-2-070325-E2	50	1.18	10.25	11.43	10.68	92.7	
Q2513-03	HR-3-070325	51	1.18	10.27	11.45	10.88	94.4	
Q2513-04	HR-3-070325-E2	52	1.14	10.67	11.81	11.23	94.6	
Q2514-01	TP-92	53	1.14	10.78	11.92	10.56	87.4	
Q2514-02	TP-93	54	1.19	10.71	11.9	10.58	87.7	
Q2514-03	TP-94	55	1.13	10.86	11.99	10.7	88.1	
Q2514-04	TP-96	56	1.14	11.10	12.24	10.66	85.8	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/7/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 07/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:37
Out Date: 07/04/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136368

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
Q2514-05	TP-97	57	1.16	10.02	11.18	9.68	85.0	
Q2514-06	TP-103	58	1.18	10.22	11.4	10.02	86.5	
Q2514-07	TP-36	59	1.15	10.78	11.93	10.88	90.3	
Q2514-08	TP-78	60	1.13	9.99	11.12	9.75	86.3	
Q2514-09	TP-81	61	1.16	10.50	11.66	10.22	86.3	
Q2514-10	TP-90	62	1.18	10.43	11.61	10.73	91.6	
Q2515-01	wc-1	63	1.15	10.31	11.46	10.17	87.5	

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

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-070325

WorkList ID : 190533

Department : Wet-Chemistry

Date : 07-03-2025 08:34:29

196368

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2487-01	G4(1.5)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-02	G4(10)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-03	G3(9)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-04	G3(3)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-05	G2(2.5)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-06	G2(9)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-07	G1(4.5)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-08	G1(10)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-09	G4(0-6)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-10	G4(6-12)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-11	G3(0-6)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-12	G3(6-12)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-13	G2(0-6)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-14	G2(6-12)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-15	G1(0-6)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2487-16	G1(6-12)	Solid	Percent Solids	Cool 4 deg C	WALS01	A22	07/01/2025	Chemtech -SO
Q2501-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2501-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2501-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2501-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2501-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO

Date/Time 07/03/25 15:15

Raw Sample Received by: JDC

Raw Sample Relinquished by: JDC

Date/Time 07/03/25

Raw Sample Received by: JDC

Raw Sample Relinquished by: JDC

WORKLIST(Hardcopy Internal Chain)

136318

WorkList Name : %1-070325

WorkList ID : 190533

Department : Wet-Chemistry

Date : 07-03-2025 08:34:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2501-10	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2501-11	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2501-12	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2501-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2501-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	06/27/2025	Chemtech -SO
Q2503-03	GCAP2	Solid	Percent Solids	Cool 4 deg C	GENV01	O11	06/27/2025	Chemtech -SO
Q2503-04	GCAP3	Solid	Percent Solids	Cool 4 deg C	GENV01	O11	07/02/2025	Chemtech -SO
Q2503-05	GCAP2A	Solid	Percent Solids	Cool 4 deg C	GENV01	O11	07/02/2025	Chemtech -SO
Q2504-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	O12	07/02/2025	Chemtech -SO
Q2504-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	O12	07/02/2025	Chemtech -SO
Q2504-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	O12	07/02/2025	Chemtech -SO
Q2504-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	O12	07/02/2025	Chemtech -SO
Q2504-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	O12	07/02/2025	Chemtech -SO
Q2504-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	O12	07/02/2025	Chemtech -SO
Q2504-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	O12	07/02/2025	Chemtech -SO
Q2505-01	#62825	Solid	Percent Solids	Cool 4 deg C	PSEG03	O13	07/03/2025	Chemtech -SO
Q2505-02	#62525	Solid	Percent Solids	Cool 4 deg C	PSEG03	O13	07/03/2025	Chemtech -SO
Q2505-03	#2008	Solid	Percent Solids	Cool 4 deg C	PSEG03	O13	07/03/2025	Chemtech -SO
Q2507-01	SU-04-7.3-2025	Solid	Percent Solids	Cool 4 deg C	PSEG03	O12	07/04/2025	Chemtech -SO
Q2507-02	SU-04-7.3-2025-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	O12	07/04/2025	Chemtech -SO
Q2507-03	SU-04-7.3-2025-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	O12	07/04/2025	Chemtech -SO

Date/Time 07/03/25 15:15
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 07/03/25 17:15
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

136368

WorkList Name : %1-070325

WorkList ID : 190533

Department : Wet-Chemistry

Date : 07-03-2025 08:34:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2508-01	AUD-25-0105	Solid	Percent Solids	Cool 4 deg C	PSEG03	O11	07/03/2025	Chemtech -SO
Q2508-02	AUD-25-0106	Solid	Percent Solids	Cool 4 deg C	PSEG03	O11	07/03/2025	Chemtech -SO
Q2508-03	AUD-25-0107	Solid	Percent Solids	Cool 4 deg C	PSEG03	O11	07/03/2025	Chemtech -SO
Q2509-02	AUD-25-0112	Solid	Percent Solids	Cool 4 deg C	PSEG03	O22	07/03/2025	Chemtech -SO
Q2510-01	#63025-A	Solid	Percent Solids	Cool 4 deg C	PSEG05	O22	07/03/2025	Chemtech -SO
Q2510-02	#63025-A-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG05	O22	07/03/2025	Chemtech -SO
Q2513-01	HR-2-070325	Solid	Percent Solids	Cool 4 deg C	PSEG05	O21	07/03/2025	Chemtech -SO
Q2513-02	HR-2-070325-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	O21	07/03/2025	Chemtech -SO
Q2513-03	HR-3-070325	Solid	Percent Solids	Cool 4 deg C	PSEG05	O21	07/03/2025	Chemtech -SO
Q2513-04	HR-3-070325-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	O21	07/03/2025	Chemtech -SO
Q2514-01	TP-92	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/02/2025	Chemtech -SO
Q2514-02	TP-93	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/02/2025	Chemtech -SO
Q2514-03	TP-94	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/02/2025	Chemtech -SO
Q2514-04	TP-96	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/02/2025	Chemtech -SO
Q2514-05	TP-97	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/02/2025	Chemtech -SO
Q2514-06	TP-103	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/02/2025	Chemtech -SO
Q2514-07	TP-36	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/02/2025	Chemtech -SO
Q2514-08	TP-78	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/03/2025	Chemtech -SO
Q2514-09	TP-81	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/03/2025	Chemtech -SO
Q2514-10	TP-90	Solid	Percent Solids	Cool 4 deg C	CAMP02	O21	07/03/2025	Chemtech -SO
Q2515-01	wc-1	Solid	Percent Solids	Cool 4 deg C	ENVO01	O23	07/03/2025	Chemtech -SO

Date/Time 07/03/25 1515
 Raw Sample Received by: SR WWC
 Raw Sample Relinquished by: JDCSM

Date/Time

07/03/25

Raw Sample Received by:

JDCSM

Raw Sample Relinquished by:

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Extraction Start Date : 07/08/2025

Matrix : Solid

Extraction Start Time : 08:35

Weight By: EH

Extraction By: RJ

Extraction End Date : 07/08/2025

Balance check: RJ

Filter By: RJ

Extraction End Time : 11:40

Balance ID: EX-SC-2

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: N/A

Hood ID: 3,7

Supervisor By : RUPESH

Extraction Method: ☐ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	20 PPM	PP24583
Surrogate	1.0ML	20 PPM	PP24596
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	EP2612
Baked Na2SO4	N/A	EP2624
Methylene Chloride	N/A	E3943
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

Envap ID: NEVAP-02

KD Bath Temperature: N/A

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/8/25 11:45	RS (Ext Lab)	RS (Ext Lab)
	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 07/08/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168751BL	PB168751BL	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1			U2-1
PB168751BS	PB168751BS	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1			2
Q2487-09	G4(0-6)	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	D		3
Q2487-10	G4(6-12)	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1	D		4
Q2487-10MS	G4(6-12)MS	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1	D		5
Q2487-10MS D	G4(6-12)MSD	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1	D		6
Q2487-11	G3(0-6)	Diesel Range Organics	30.08	N/A	ritesh	Evelyn	1	D		U3-1
Q2487-12	G3(6-12)	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	D		2
Q2487-13	G2(0-6)	Diesel Range Organics	30.04	N/A	ritesh	Evelyn	1	D		3
Q2487-14	G2(6-12)	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	D		4
Q2487-15	G1(0-6)	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1	D		5
Q2487-16	G1(6-12)	Diesel Range Organics	30.08	N/A	ritesh	Evelyn	1	D		6
Q2514-01	TP-92	Diesel Range Organics	30.07	N/A	ritesh	Evelyn	1	E		U6-1
Q2514-02	TP-93	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	E		2
Q2514-03	TP-94	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1	E		3
Q2514-04	TP-96	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1	E		4
Q2514-05	TP-97	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	E		5
Q2514-06	TP-103	Diesel Range Organics	30.09	N/A	ritesh	Evelyn	1	E		6
Q2514-07	TP-36	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1	E		U1-1
Q2514-08	TP-78	Diesel Range Organics	30.04	N/A	ritesh	Evelyn	1	E		2
Q2514-09	TP-81	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	E		3
Q2514-10	TP-90	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1	E		4

* Extracts relinquished on the same date as received.

1875
53:08

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2487D WorkList ID : 190579 Department : Extraction Date : 07-08-2025 08:28:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2487-09	G4(0-6)	Solid	Diesel Range Organics	Cool 4 deg C	WALS01	A22	07/01/2025	8015D
Q2487-10	G4(6-12)	Solid	Diesel Range Organics	Cool 4 deg C	WALS01	A22	07/01/2025	8015D
Q2487-11	G3(0-6)	Solid	Diesel Range Organics	Cool 4 deg C	WALS01	A22	07/01/2025	8015D
Q2487-12	G3(6-12)	Solid	Diesel Range Organics	Cool 4 deg C	WALS01	A22	07/01/2025	8015D
Q2487-13	G2(0-6)	Solid	Diesel Range Organics	Cool 4 deg C	WALS01	A22	07/01/2025	8015D
Q2487-14	G2(6-12)	Solid	Diesel Range Organics	Cool 4 deg C	WALS01	A22	07/01/2025	8015D
Q2487-15	G1(0-6)	Solid	Diesel Range Organics	Cool 4 deg C	WALS01	A22	07/01/2025	8015D
Q2487-16	G1(6-12)	Solid	Diesel Range Organics	Cool 4 deg C	WALS01	A22	07/01/2025	8015D
Q2514-01	TP-92	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	O21	07/02/2025	8015D
Q2514-02	TP-93	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	O21	07/02/2025	8015D
Q2514-03	TP-94	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	O21	07/02/2025	8015D
Q2514-04	TP-96	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	O21	07/02/2025	8015D
Q2514-05	TP-97	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	O21	07/02/2025	8015D
Q2514-06	TP-103	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	O21	07/02/2025	8015D
Q2514-07	TP-36	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	O21	07/03/2025	8015D
Q2514-08	TP-78	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	O21	07/03/2025	8015D
Q2514-09	TP-81	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	O21	07/03/2025	8015D
Q2514-10	TP-90	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	O21	07/03/2025	8015D

Date/Time 07/08/25 8:30
Raw Sample Received by: RJ (EXT-190)
Raw Sample Relinquished by: OP SR

Date/Time 07/08/25 9:00
Raw Sample Received by: OP SR
Raw Sample Relinquished by: RJ (EXT-190)

Prep Standard - Chemical Standard Summary

Order ID : Q2514

Test : Diesel Range Organics

Prepbatch ID : PB168751,

Sequence ID/Qc Batch ID: FG070825,FG071025,FF070825,

Standard ID :

EP2612,EP2624,PP24467,PP24468,PP24469,PP24470,PP24471,PP24472,PP24473,PP24583,PP24596,

Chemical ID :

E3551,E3926,E3930,E3931,E3932,E3943,P11951,P11952,P13106,P13108,P13477,P13479,P13483,P13484,P13485,P13486,P13938,P13945,

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	EP2612	05/09/2025	11/05/2025	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel
								05/09/2025

FROM 8000.00000ml of E3930 + 8000.00000ml of E3932 = 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	EP2624	06/26/2025	12/04/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel
						(EX-SC-2)		06/26/2025

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>
433	100/100 PPM DRO (Restek)	PP24467	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 1.00000ml of P11951 + 1.00000ml of P11952 + 1.00000ml of P13477 + 7.00000ml of E3926 = 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>
3979	100/100 PPM DRO ICV (RESTEK)	PP24468	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 1.00000ml of P13106 + 1.00000ml of P13108 + 1.00000ml of P13479 + 7.00000ml of E3926 = 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)	PP24469	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.50000ml of E3926 + 0.50000ml of PP24467 = 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)	PP24470	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.80000ml of E3926 + 0.20000ml of PP24467 = 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)	PP24471	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.90000ml of E3926 + 0.10000ml of PP24467 = 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)	PP24472	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.90000ml of E3926 + 0.10000ml of PP24469 = 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>
3608	50 PPM ICV DRO STD (RESTEK)	PP24473	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.50000ml of E3926 + 0.50000ml of PP24468 = 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>
3609	20 PPM DRO SPIKE SOLUTION (RESTEK)	PP24583	05/16/2025	11/16/2025	Rahul Chavli	None	None	Yogesh Patel
								05/22/2025

FROM 0.70000ml of P13945 + 1.30000ml of P13938 + 48.00000ml of E3930 = 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	PP24596	05/20/2025	11/20/2025	Abdul Mirza	None	None	Yogesh Patel 05/22/2025
<u>FROM</u> 1.00000ml of P13483 + 1.00000ml of P13484 + 1.00000ml of P13485 + 1.00000ml of P13486 + 196.00000ml of E3931 = Final Quantity: 200.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	12/04/2025	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)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	02/20/2026	05/02/2025 / RUPESH	03/09/2025 / RUPESH	E3930

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	02/20/2026	05/02/2025 / RUPESH	03/09/2025 / RUPESH	E3931

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	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

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)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3943

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	10/22/2025	04/22/2025 / yogesh	07/11/2022 / Yogesh	P11951

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	10/22/2025	04/22/2025 / yogesh	07/11/2022 / Yogesh	P11952

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0204859	10/22/2025	04/22/2025 / yogesh	01/12/2024 / Yogesh	P13106

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0204859	10/22/2025	04/22/2025 / yogesh	01/12/2024 / Yogesh	P13108

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	10/22/2025	04/22/2025 / yogesh	07/24/2024 / yogesh	P13477

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	10/22/2025	04/22/2025 / yogesh	07/24/2024 / yogesh	P13479

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	11/20/2025	05/20/2025 / Abdul	07/24/2024 / yogesh	P13483

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	11/20/2025	05/20/2025 / Abdul	07/24/2024 / yogesh	P13484

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	11/20/2025	05/20/2025 / Abdul	07/24/2024 / yogesh	P13485

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	11/20/2025	05/20/2025 / Abdul	07/24/2024 / yogesh	P13486

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0217113	11/16/2025	05/16/2025 / Rahul	03/07/2025 / yogesh	P13938

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0217113	11/16/2025	05/16/2025 / Rahul	03/07/2025 / yogesh	P13945



**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)

avantor



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid (μ 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 3926

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

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

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

avantor



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid (μ 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

E3930

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

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

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



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid (μ 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

E3930

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

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

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

RS

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932



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)

avantor™



Material No.: 9266-A4

Batch No.: 25A2862010

Manufactured Date: 2024-12-18

Expiration Date: 2026-03-19

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 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

E3942

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

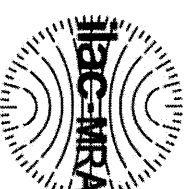
Bellefonte, PA 16823-8812

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 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 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 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 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 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 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 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:

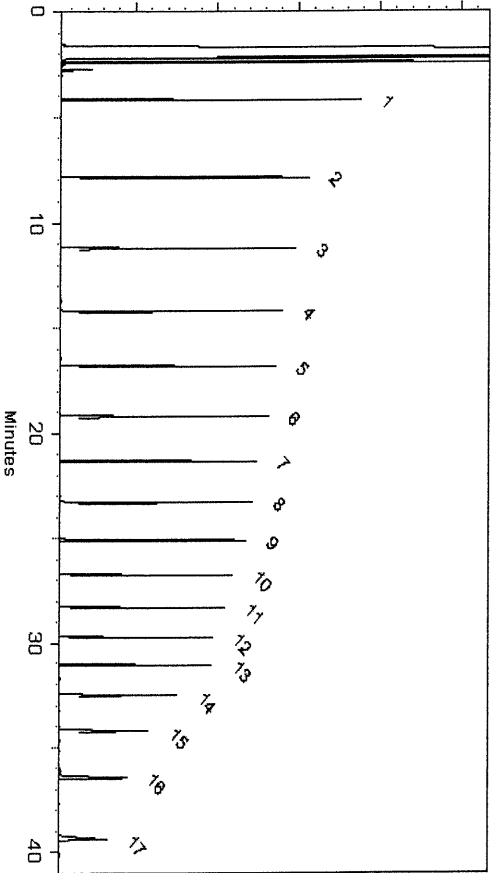
250°C

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

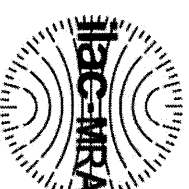
Bellefonte, PA 16823-8812

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:

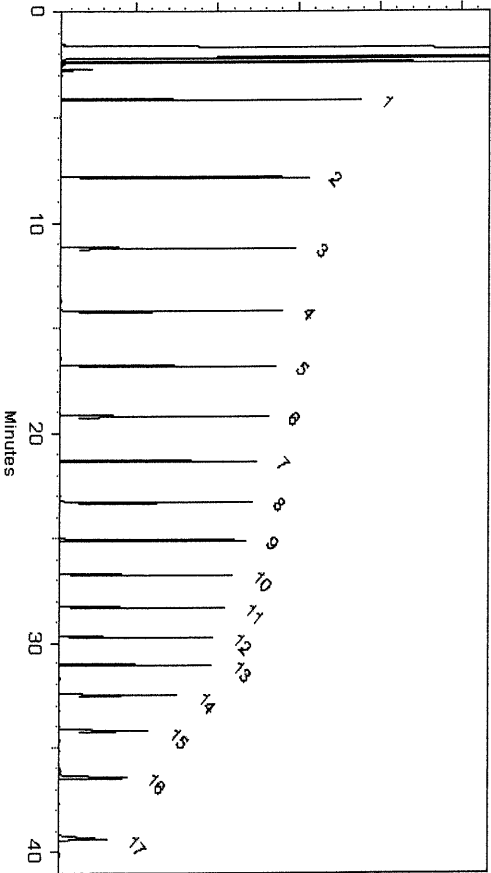
250°C

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.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Florida TRPH Standard

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

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

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

Handling: Sonicate prior to use. **Ship:** Ambient

P13103 } Y.P.
↓
P13112 } 01/12/2024

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Octane (C8)	111-65-9	SHBP9758	99%	504.4 µg/mL	+/- 13.0305
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	503.6 µg/mL	+/- 13.0098
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	503.6 µg/mL	+/- 13.0098
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	504.0 µg/mL	+/- 13.0201
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	504.0 µg/mL	+/- 13.0201
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	504.1 µg/mL	+/- 13.0230
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	504.0 µg/mL	+/- 13.0204
8	n-Docosane (C22)	629-97-0	MKQC3882	99%	503.6 µg/mL	+/- 13.0098
9	n-Tetracosane (C24)	646-31-1	MKQC8345	99%	504.0 µg/mL	+/- 13.0201
10	n-Hexacosane (C26)	630-01-3	MKQC4814	99%	504.0 µg/mL	+/- 13.0201
11	n-Octacosane (C28)	630-02-4	BCCG0084	99%	504.0 µg/mL	+/- 13.0201
12	n-Triacontane (C30)	638-68-6	MKQC9436	97%	504.0 µg/mL	+/- 13.0204
13	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	504.0 µg/mL	+/- 13.0201
14	n-Tetratriacontane (C34)	14167-59-0	OML4N	99%	504.4 µg/mL	+/- 13.0305
15	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	504.0 µg/mL	+/- 13.0201
16	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	503.8 µg/mL	+/- 13.0152
17	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	503.6 µg/mL	+/- 13.0098

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

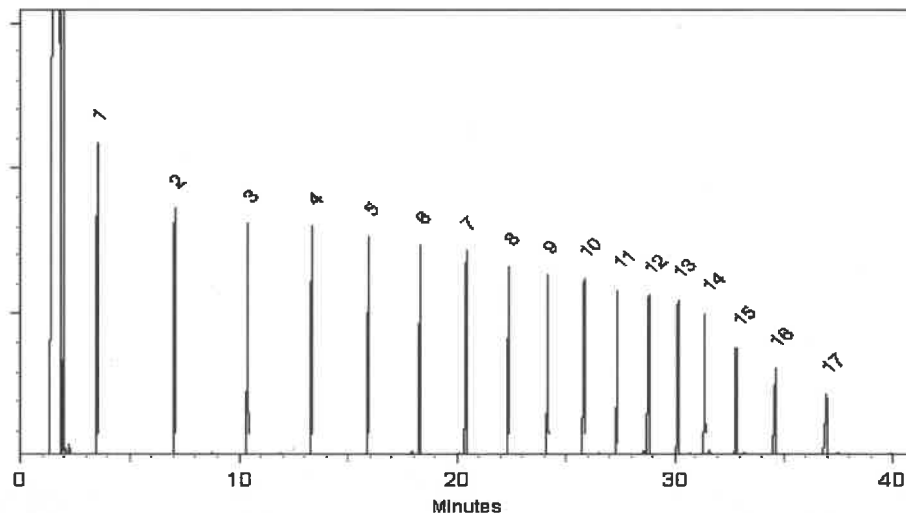
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl

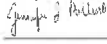


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Florida TRPH Standard

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

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

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

Handling: Sonicate prior to use. **Ship:** Ambient

P13103 } Y.P.
↓
P13112 } 01/12/2024

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Octane (C8)	111-65-9	SHBP9758	99%	504.4 µg/mL	+/- 13.0305
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	503.6 µg/mL	+/- 13.0098
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	503.6 µg/mL	+/- 13.0098
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	504.0 µg/mL	+/- 13.0201
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	504.0 µg/mL	+/- 13.0201
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	504.1 µg/mL	+/- 13.0230
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	504.0 µg/mL	+/- 13.0204
8	n-Docosane (C22)	629-97-0	MKCQ3882	99%	503.6 µg/mL	+/- 13.0098
9	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	504.0 µg/mL	+/- 13.0201
10	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	504.0 µg/mL	+/- 13.0201
11	n-Octacosane (C28)	630-02-4	BCCG0084	99%	504.0 µg/mL	+/- 13.0201
12	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	504.0 µg/mL	+/- 13.0204
13	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	504.0 µg/mL	+/- 13.0201
14	n-Tetratriacontane (C34)	14167-59-0	OML4N	99%	504.4 µg/mL	+/- 13.0305
15	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	504.0 µg/mL	+/- 13.0201
16	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	503.8 µg/mL	+/- 13.0152
17	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	503.6 µg/mL	+/- 13.0098

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

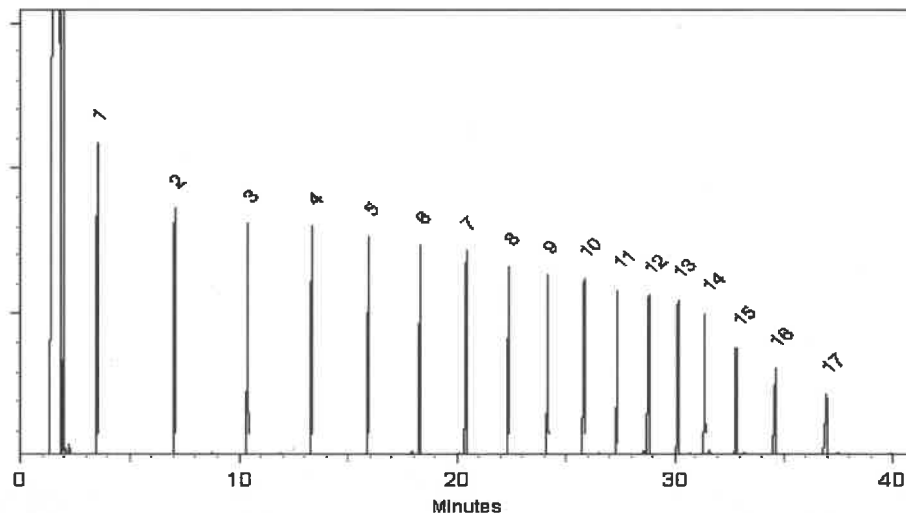
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl

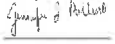


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

ABSOLUTE STANDARDS, INC.

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-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)(H)	N/A	or-rat 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-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	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

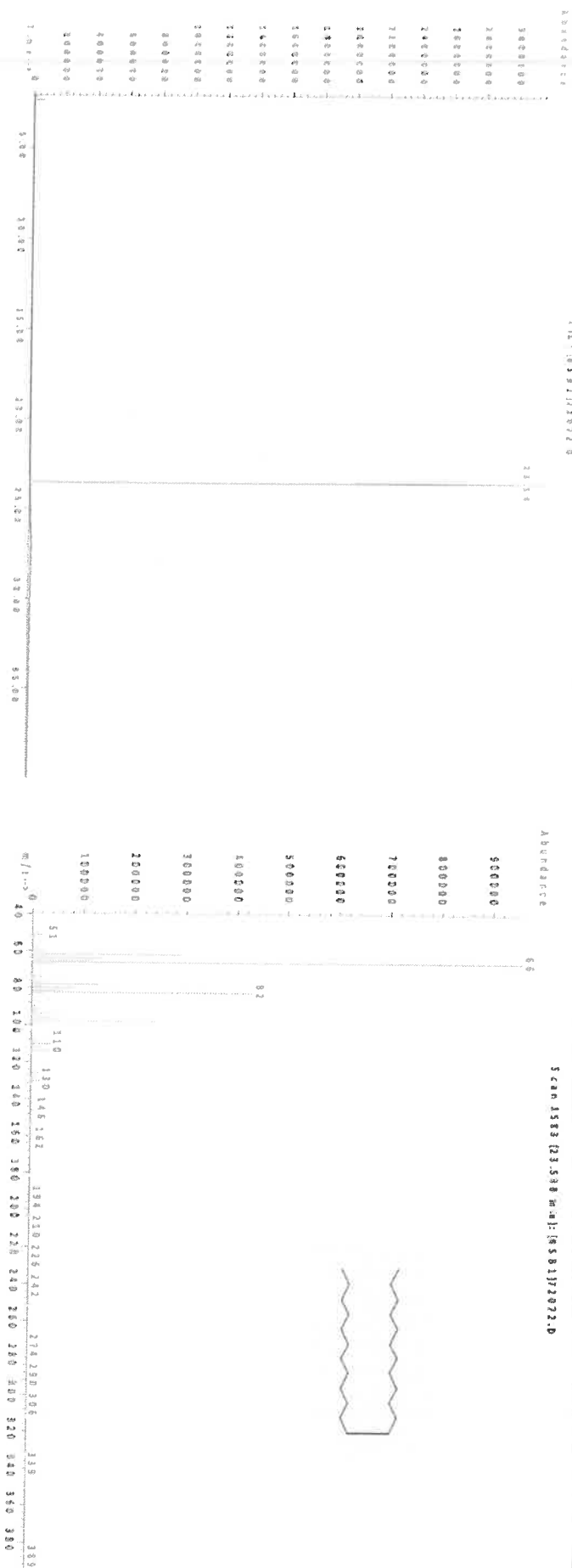
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13496
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



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Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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Absolute Standards, Inc.
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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-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)	N/A	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	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	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	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

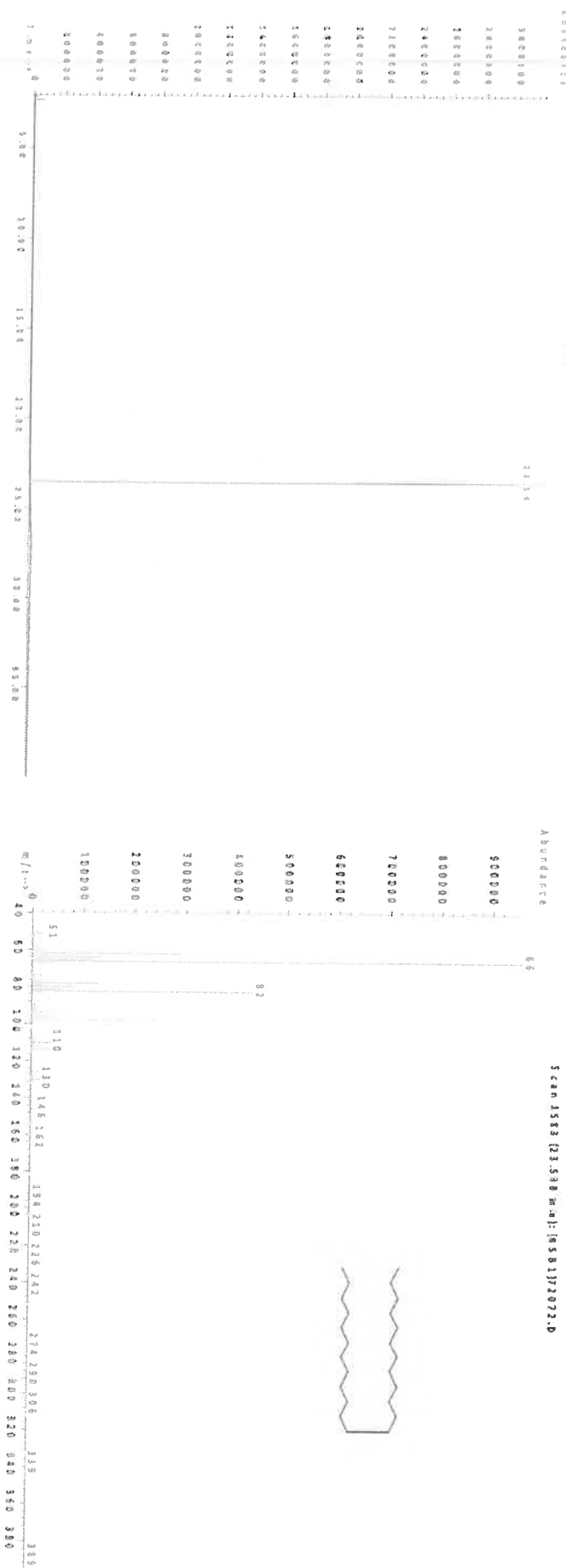
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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 (%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.

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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.

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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.

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Certifying Officer: Stephen J. Arpie, M.S., Director General

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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

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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

MSDS Information (Solvent Safety Info. On Attached pg.)

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

Qualitative Quantitative

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

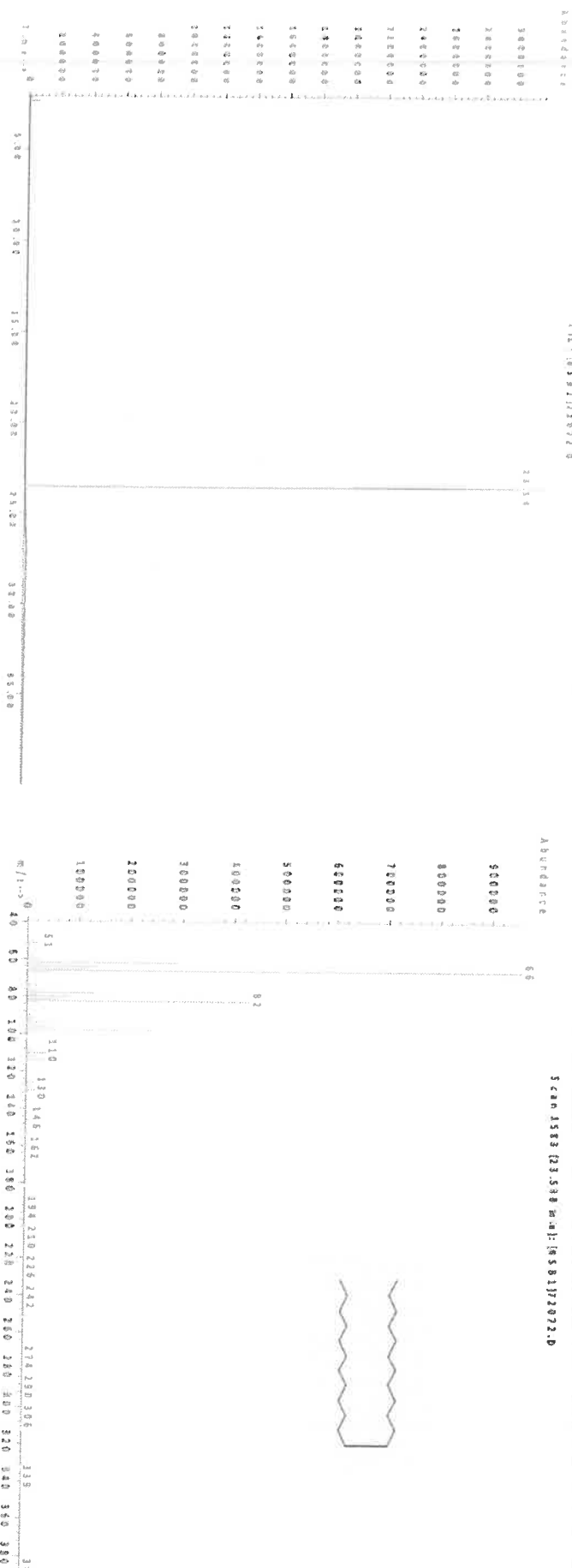
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

Formulated By:	<i>Prashant Chauhan</i>	101122
Reviewed By:	<i>Pedro L. Rentas</i>	101122
	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#	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	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

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

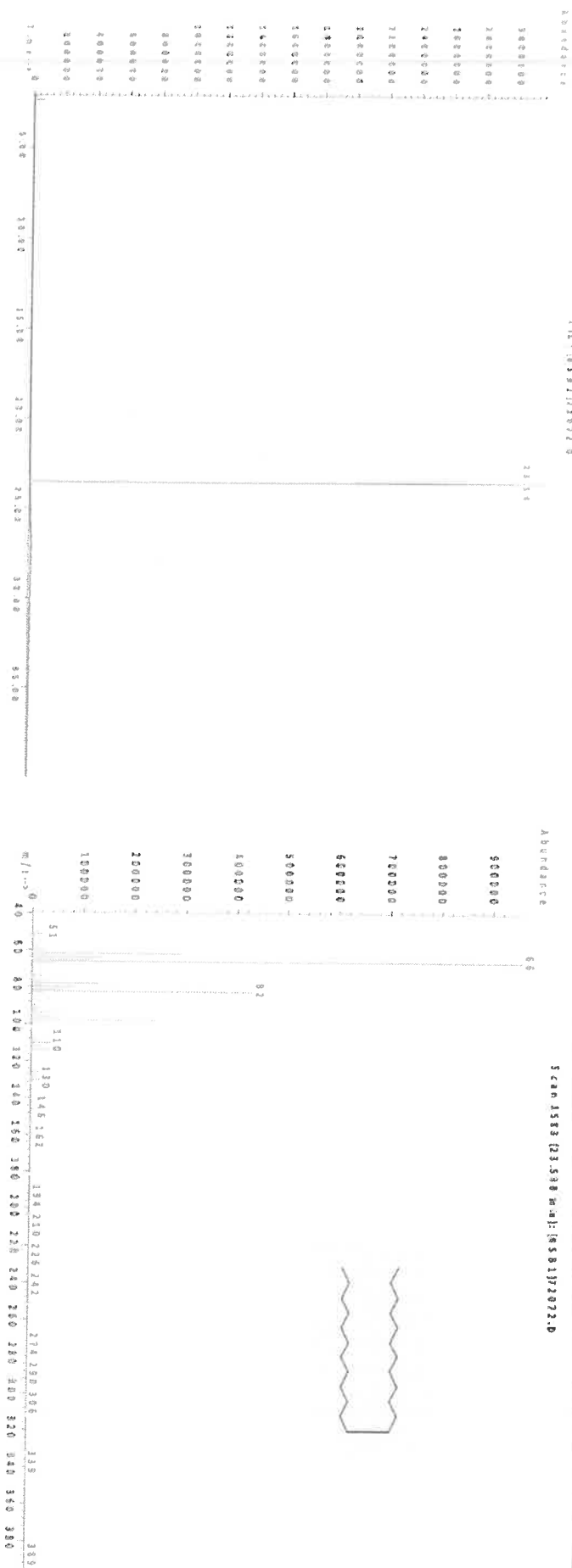
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13496
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 (%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.
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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	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)	N/A	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	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	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	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

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**

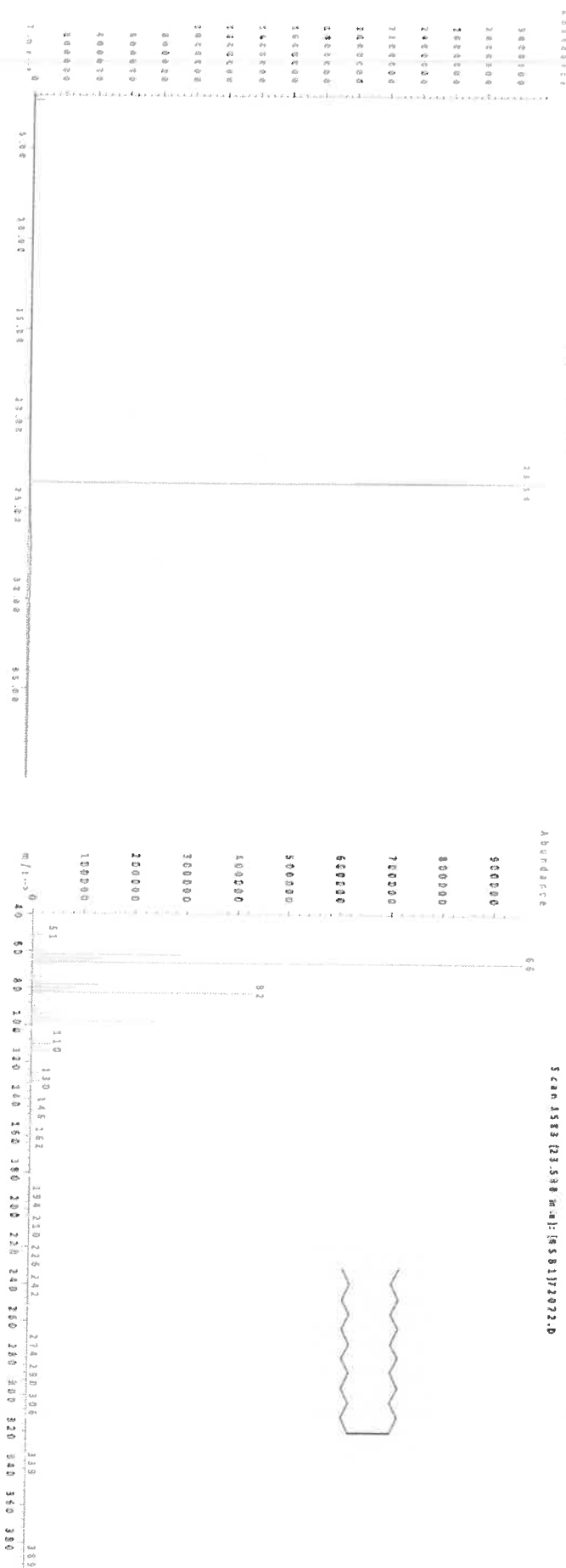
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13496
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 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	15067-28-2	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	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

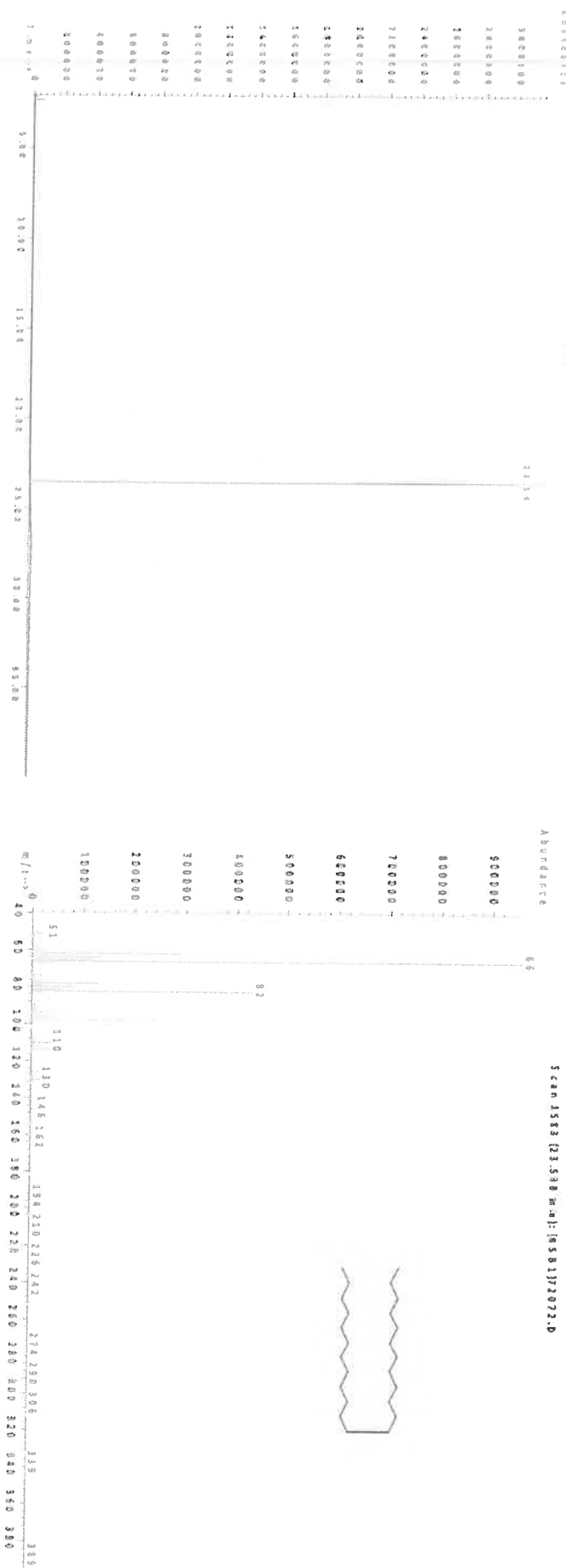
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

Formulated By:	<i>Prashant Chauhan</i>	101122
Reviewed By:	<i>Pedro L. Rentas</i>	101122
	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).



110 Benner Circle
Bellefonte, PA 16823-8812
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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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.: A0217113

Description : Florida TRPH Standard

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

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : October 31, 2031

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

P031937
*
P031946
Y.P.
03/07/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Octane (C8)	111-65-9	SHBR0789	99%	502.0 µg/mL	+/- 12.9685
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	501.5 µg/mL	+/- 12.9555
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	502.5 µg/mL	+/- 12.9814
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	500.5 µg/mL	+/- 12.9297
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	500.0 µg/mL	+/- 12.9168
6	n-Octadecane (C18)	593-45-3	UB5NG	99%	500.5 µg/mL	+/- 12.9297
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	500.0 µg/mL	+/- 12.9177
8	n-Docosane (C22)	629-97-0	MKCQ3882	99%	500.5 µg/mL	+/- 12.9297
9	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	500.5 µg/mL	+/- 12.9297
10	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	502.0 µg/mL	+/- 12.9685
11	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	501.0 µg/mL	+/- 12.9426
12	n-Triacontane (C30)	638-68-6	MKCV7007	98%	499.8 µg/mL	+/- 12.9116
13	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	500.0 µg/mL	+/- 12.9168
14	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	501.5 µg/mL	+/- 12.9555
15	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	500.5 µg/mL	+/- 12.9297
16	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	500.2 µg/mL	+/- 12.9209
17	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	503.5 µg/mL	+/- 13.0072

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

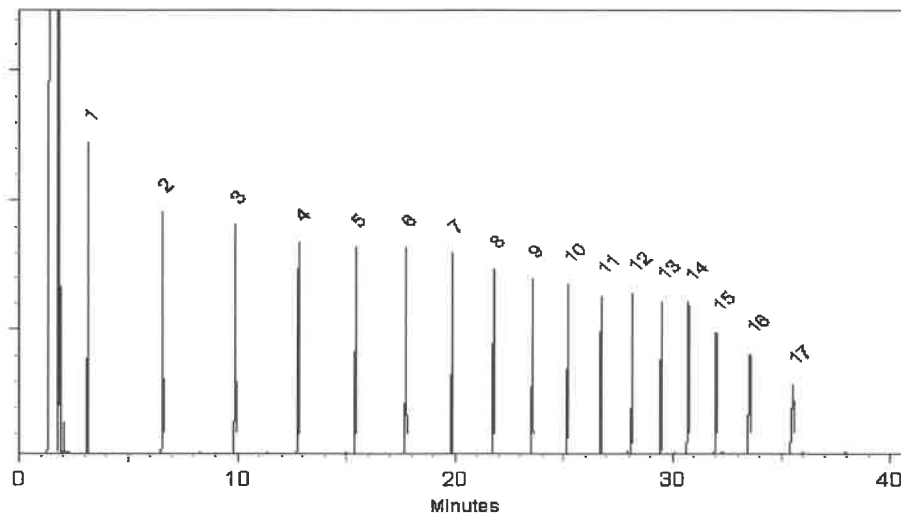
Inj. Temp:
250°C

Det. Temp:
330°C

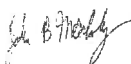
Det. Type:
FID

Split Vent:
2 ml/min.

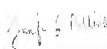
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Josh McCloskey - Operations Technician I

Date Mixed: 26-Sep-2024 **Balance Serial #** 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 10-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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



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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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.: A0217113

Description : Florida TRPH Standard

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

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : October 31, 2031

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

P031937
*
P031946
Y.P.
03/07/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Octane (C8)	111-65-9	SHBR0789	99%	502.0 µg/mL	+/- 12.9685
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	501.5 µg/mL	+/- 12.9555
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	502.5 µg/mL	+/- 12.9814
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	500.5 µg/mL	+/- 12.9297
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	500.0 µg/mL	+/- 12.9168
6	n-Octadecane (C18)	593-45-3	UB5NG	99%	500.5 µg/mL	+/- 12.9297
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	500.0 µg/mL	+/- 12.9177
8	n-Docosane (C22)	629-97-0	MKCQ3882	99%	500.5 µg/mL	+/- 12.9297
9	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	500.5 µg/mL	+/- 12.9297
10	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	502.0 µg/mL	+/- 12.9685
11	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	501.0 µg/mL	+/- 12.9426
12	n-Triacontane (C30)	638-68-6	MKCV7007	98%	499.8 µg/mL	+/- 12.9116
13	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	500.0 µg/mL	+/- 12.9168
14	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	501.5 µg/mL	+/- 12.9555
15	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	500.5 µg/mL	+/- 12.9297
16	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	500.2 µg/mL	+/- 12.9209
17	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	503.5 µg/mL	+/- 13.0072

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

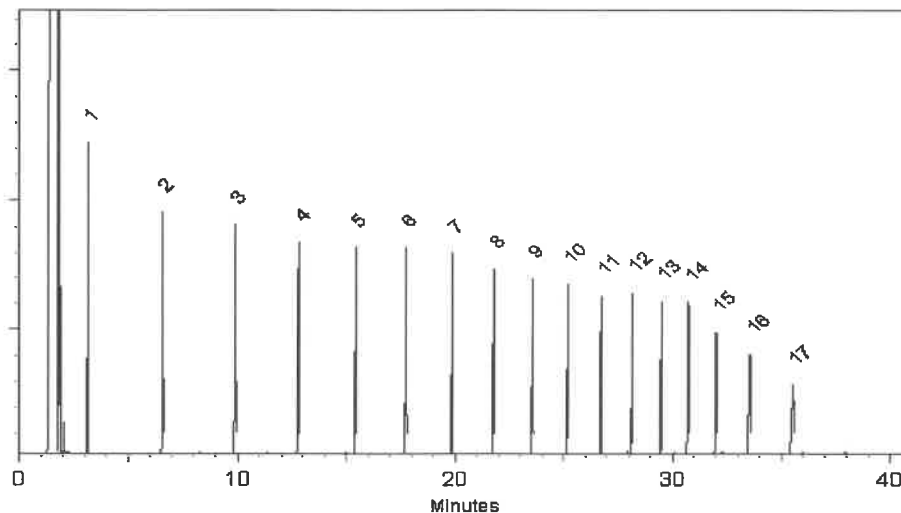
Inj. Temp:
250°C

Det. Temp:
330°C

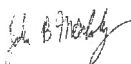
Det. Type:
FID

Split Vent:
2 ml/min.

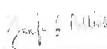
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Josh McCloskey - Operations Technician I

Date Mixed: 26-Sep-2024 **Balance Serial #** 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 10-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **CDM SMITH**
ADDRESS: **110 FIELDCREST AVE #8 6TH FLOOR**
CITY: **EDISON** STATE: **NJ** ZIP: **08837**
ATTENTION: **MARCIE ENCINAS**
PHONE: **7325904679** FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **SOUTH RIVER WM REPLACEMENT**
PROJECT NO.: **302781** LOCATION: **SOUTH RIVER NJ**
PROJECT MANAGER: **FELIPE CONTRERAS**
e-mail: **ENCINASMA@CDMSMITH.COM**
PHONE: **7325904679** FAX:

CLIENT BILLING INFORMATION

BILL TO: **CDM SMITH** PO#:
ADDRESS: **110 FIELDCREST AVE #8 6TH FLOOR**
CITY: **EDISON** STATE: **NJ** ZIP: **08837**
ATTENTION: **MARCIE ENCINAS** PHONE: **7325904679**

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT

1. TEL VOL
2. TEL SVOL
3. PCBs
4. TAL METALS
5. PESTICIDES
6. HERBICIDES
7. DRUGS
8. GRS
9.

PRESERVATIVES

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	TP-92	5		X	7/2/25	0800	5	X	X	X	X	X	X	X	X		E
2.	TP-93	5		X	7/2/25	0830	6	X	X	X	X	X	X	X	X		E
3.	TP-94	5		X	7/2/25	1035	6	X	X	X	X	X	X	X	X		E
4.	TP-96	5		X	7/2/25	1125	6	X	X	X	X	X	X	X	X		E
5.	TP-97	5		X	7/2/25	1215	6	X	X	X	X	X	X	X	X		E
6.	TP-103	5		X	7/2/25	1345	6	X	X	X	X	X	X	X	X		E
7.	TP-3C	5		X	7/3/25	0820	6	X	X	X	X	X	X	X	X		E
8.	TP-78	5		X	7/3/25	0855	6	X	X	X	X	X	X	X	X		E
9.	TP-81	5		X	7/3/25	1000	6	X	X	X	X	X	X	X	X		E
10.	TP-90	5		X	7/3/25	1250	6	X	X	X	X	X	X	X	X		E

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <i>[Signature]</i>	DATE/TIME: 7/3/25 1315	RECEIVED BY: 1. <i>[Signature]</i> 1315 7-3-25	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.9 °C
RELINQUISHED BY SAMPLER: 2. <i>[Signature]</i>	DATE/TIME:	RECEIVED BY: 2.	Comments:
RELINQUISHED BY SAMPLER: 3. <i>[Signature]</i>	DATE/TIME: 1412 7-3-25	RECEIVED BY: 3.	Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other
Shipment Complete ☐ YES ☐ NO

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 : Q2514	CAMP02	Order Date : 7/3/2025 1:29:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level 2
Client Contact : Marcie Ann Encinas		Receive DateTime : 7/3/2025 3:00:00 PM	EDD Type : EXCEL NOCLEANUP
Invoice Name : CDM Smith		Purchase Order : 1472 AP	Hard Copy Date :
Invoice Contact : Marcie Ann Encinas			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2514-01	TP-92	Solid	07/02/2025	08:00					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2514-02	TP-93	Solid	07/02/2025	08:30					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2514-03	TP-94	Solid	07/02/2025	10:35					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2514-04	TP-96	Solid	07/02/2025	11:25					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2514-05	TP-97	Solid	07/02/2025	12:15					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2514-06	TP-103	Solid	07/02/2025	13:45					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2514-07	TP-36	Solid	07/03/2025	08:20					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2514-08	TP-78	Solid	07/03/2025	08:55					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2514	CAMP02	Order Date : 7/3/2025 1:29:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level 2
Client Contact : Marcie Ann Encinas		Receive DateTime : 7/3/2025 2:00:00 PM	EDD Type : EXCEL NOCLEANUP
Invoice Name : CDM Smith		Purchase Order : 1412 d1	Hard Copy Date :
Invoice Contact : Marcie Ann Encinas			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2514-09	TP-81	Solid	07/03/2025	10:00					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2514-10	TP-90	Solid	07/03/2025	12:50					
					VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinquished By : [Signature]

Date / Time : 7/3/25 1430

Received By : [Signature]

Date / Time : 07/03/25 14:30

Storage Area : VOA Refridgerator Room