

Cover Page

Order ID : Q2458

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number

Q2458-01
Q2458-02
Q2458-03
Q2458-04
Q2458-05
Q2458-06
Q2458-07
Q2458-08
Q2458-09
Q2458-10

Client Sample Number

TP-76
TP-55
TP-68
TP-67
TP-66
TP-60
TP-62
TP-63
TP-59
FB-06272025

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: 7/9/2025

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 #: Q2458

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRADIP PRAJAPATI

Date: 07/09/2025

LAB CHRONICLE

OrderID:	Q2458	OrderDate:	6/27/2025 4:22:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	D51,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2458-01	TP-76	SOIL			06/26/25			06/27/25
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-02	TP-55	SOIL			06/26/25			06/27/25
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-03	TP-68	SOIL			06/27/25			06/27/25
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-04	TP-67	SOIL			06/27/25			06/27/25
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-05	TP-66	SOIL			06/27/25			06/27/25
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		07/01/25	07/01/25	
			Pesticide-TCL	8081B		07/01/25	07/01/25	
Q2458-06	TP-60	SOIL			06/27/25			06/27/25
			Diesel Range Organics	8015D		07/02/25	07/03/25	

LAB CHRONICLE

Q2458-07	TP-62	SOIL	Gasoline Range Organics	8015D		06/30/25	
			PCB	8082A	07/01/25	07/01/25	
			Pesticide-TCL	8081B	07/01/25	07/01/25	
					06/27/25		06/27/25
			Diesel Range Organics	8015D	07/02/25	07/02/25	
			Gasoline Range Organics	8015D		07/01/25	
			PCB	8082A	07/01/25	07/01/25	
			Pesticide-TCL	8081B	07/01/25	07/01/25	
Q2458-08	TP-63	SOIL			06/27/25		06/27/25
			Diesel Range Organics	8015D	07/02/25	07/02/25	
			Gasoline Range Organics	8015D		06/30/25	
			PCB	8082A	07/01/25	07/01/25	
			Pesticide-TCL	8081B	07/01/25	07/01/25	
Q2458-09	TP-59	SOIL			06/27/25		06/27/25
			Diesel Range Organics	8015D	07/02/25	07/02/25	
			Gasoline Range Organics	8015D		06/30/25	
			PCB	8082A	07/01/25	07/02/25	
			Pesticide-TCL	8081B	07/01/25	07/01/25	
Q2458-10	FB-06272025	Water			06/27/25		06/27/25
			Diesel Range Organics	8015D	07/02/25	07/02/25	
			Gasoline Range Organics	8015D		07/01/25	
			PCB	8082A	07/02/25	07/02/25	
			Pesticide-TCL	8081B	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.: Q2458

CLIENT ID	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FF016062.D	85				0
PIBLK-FF016073.D	80				0
PIBLK-FF016085.D	88				0
PIBLK-FF016088.D	120				0
PIBLK-FF016094.D	89				0
PIBLK-FF016116.D	100				0
PIBLK-FF016126.D	81				0
PIBLK-FG016199.D	85				0
PIBLK-FG016207.D	84				0
PB168697BL	84				0
PB168697BS	95				0
PB168697BSD	92				0
PB168701BL	79				0
PB168701BS	76				0
TP-76	64				0
TP-55	53				0
TP-68	48				0
TP-67	52				0
TP-67MS	42				0
TP-67MSD	39				0
TP-66	77				0
TP-60	57				0
TP-62	45				0
TP-63	51				0
TP-59	53				0
FB-06272025	86				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: Q2458

Client Sample ID : TP-67MS

Datafile: FF016081.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
DRO	7420	8110	10715	35%	*	68-131

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance

Client: CDM Smith

Lab Code: ACE

SDG No: Q2458

Client Sample ID : TP-67MSD

Datafile: FF016082.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
DRO	7427	8110	10934	38%	*	68-131

MS/MSD % Recovery RPD : 7.9

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

Lab Name: Alliance

Client: CDM Smith

Lab Code: ACE

SDG No: Q2458

Client Sample ID : PB168701BS

Datafile: FF016076.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
DRO	6660	0	4984	75	68-131



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

WATER DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE

Lab Name: Alliance

Client: CDM Smith

Lab Code: ACE

SDG No: Q2458

Client Sample ID : PB168697BS

Datafile: FF016124.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS (%)
DRO	200	0	194	97	78-117

WATER DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE

Lab Name: Alliance

Client: CDM Smith

Lab Code: ACE

SDG No: Q2458

Client Sample ID : PB168697BSD

Datafile: FF016125.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS (%)
DRO	200	0	189	94	78-117

LCS/LCSD % Recovery RPD : 2.6

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB168697BL

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2458

Lab File ID: FF016065.D

Lab Sample ID: PB168697BL

Instrument ID: ff

Date Extracted: 07/02/2025

Matrix: (soil/water) Water

Date Analyzed: 07/02/25

Level: (low/med) low

Time Analyzed: 13:33

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
FB-06272025	Q2458-10	FF016068.D	07/02/25
PB168697BS	PB168697BS	FF016124.D	07/09/25
PB168697BSD	PB168697BSD	FF016125.D	07/09/25

COMMENTS: _____

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB168701BL

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2458

Lab File ID: FF016075.D

Lab Sample ID: PB168701BL

Instrument ID: ff

Date Extracted: 07/02/2025

Matrix: (soil/water) Soil

Date Analyzed: 07/02/25

Level: (low/med) low

Time Analyzed: 19:06

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168701BS	PB168701BS	FF016076.D	07/02/25
TP-76	Q2458-01	FF016077.D	07/02/25
TP-68	Q2458-03	FF016079.D	07/02/25
TP-67	Q2458-04	FF016080.D	07/02/25
TP-67MS	Q2458-04MS	FF016081.D	07/02/25
TP-67MSD	Q2458-04MSD	FF016082.D	07/02/25
TP-55	Q2458-02	FF016091.D	07/03/25
TP-66	Q2458-05	FF016092.D	07/03/25
TP-60	Q2458-06	FF016093.D	07/03/25
TP-62	Q2458-07	FG016202.D	07/02/25
TP-63	Q2458-08	FG016203.D	07/02/25
TP-59	Q2458-09	FG016204.D	07/02/25

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-76	SDG No.:	Q2458
Lab Sample ID:	Q2458-01	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	90.6
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016077.D	1	07/02/25 09:17	07/02/25 20:06	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	21100		186	1840	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	12.9		37 - 130	64%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016077.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 20:06
Operator : YP\AJ
Sample : Q2458-01
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-76

Integration File: autoint1.e
Quant Time: Jul 03 03:22:44 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...	15.092	1556904	12.894 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

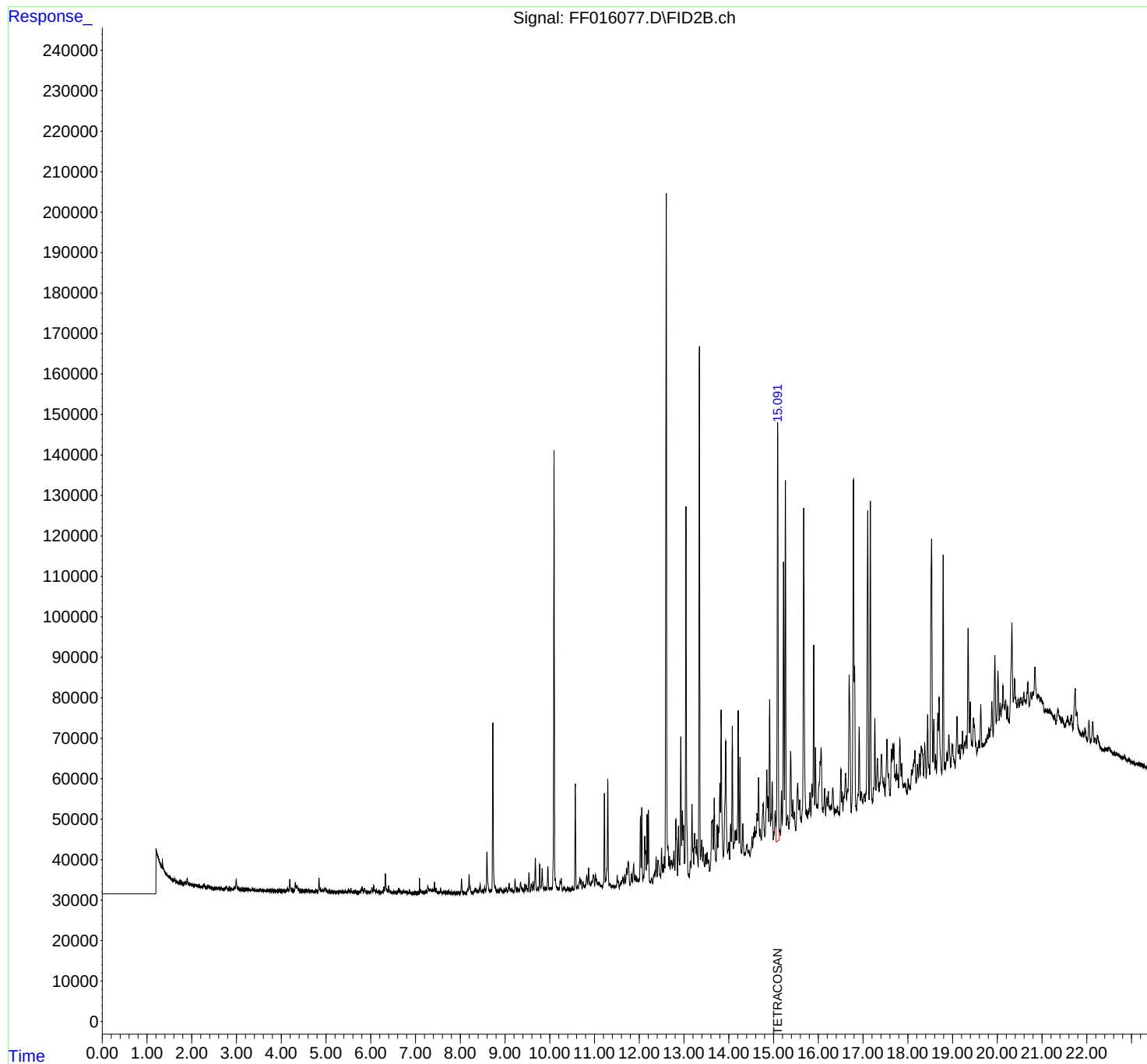
(m)=manual int.

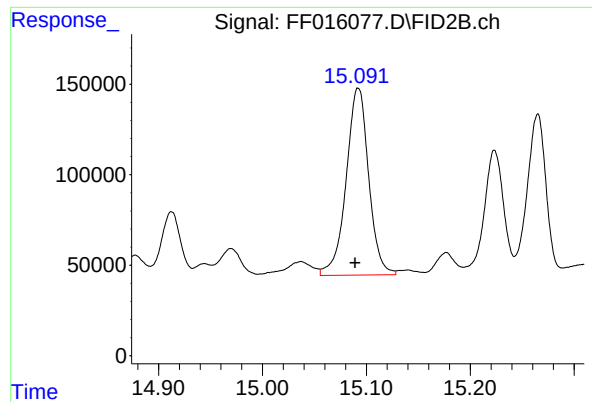
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016077.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 20:06
Operator : YP\AJ
Sample : Q2458-01
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-76

Integration File: autoint1.e
Quant Time: Jul 03 03:22:44 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.: 15.092 min
Delta R.T.: 0.003 min
Response: 1556904
Conc: 12.89 ug/ml

Instrument :
FID_F
ClientSampleId :
TP-76

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
 Data File : FF016077.D
 Signal(s) : FID2B.ch
 Acq On : 02 Jul 2025 20:06
 Sample : Q2458-01
 Misc :
 ALS Vial : 81 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	4.514	4.505	4.524	HH	668	7075	0.29%	0.009%
2	4.536	4.524	4.550	HH	736	10332	0.43%	0.013%
3	4.568	4.550	4.596	HH	896	20879	0.86%	0.026%
4	4.615	4.596	4.641	HH	1031	20591	0.85%	0.026%
5	4.655	4.641	4.674	HH	748	12575	0.52%	0.016%
6	4.683	4.674	4.691	HH	623	5804	0.24%	0.007%
7	4.698	4.691	4.726	HH	685	11499	0.47%	0.015%
8	4.741	4.726	4.748	HH	574	6502	0.27%	0.008%
9	4.749	4.748	4.762	HH	528	3921	0.16%	0.005%
10	4.780	4.762	4.800	HH	891	13970	0.58%	0.018%
11	4.844	4.800	4.878	HH	3832	63395	2.62%	0.080%
12	4.879	4.878	4.889	HH	1385	5841	0.24%	0.007%
13	4.898	4.889	4.920	HH	873	14863	0.61%	0.019%
14	4.923	4.920	4.927	HH	850	3543	0.15%	0.004%
15	4.933	4.927	4.944	HH	867	8223	0.34%	0.010%
16	4.978	4.944	5.052	HH	1301	55689	2.30%	0.071%
17	5.056	5.052	5.060	HH	556	2421	0.10%	0.003%
18	5.074	5.060	5.103	HH	669	13762	0.57%	0.017%
19	5.115	5.103	5.155	HH	602	15856	0.65%	0.020%
20	5.160	5.155	5.202	HH	491	11612	0.48%	0.015%
21	5.232	5.202	5.247	HH	497	11093	0.46%	0.014%
22	5.249	5.247	5.261	HH	489	3401	0.14%	0.004%
23	5.270	5.261	5.293	HH	549	7569	0.31%	0.010%
24	5.316	5.293	5.347	HH	697	16551	0.68%	0.021%
25	5.370	5.347	5.388	HH	708	13662	0.56%	0.017%
26	5.393	5.388	5.396	HH	421	1746	0.07%	0.002%
27	5.423	5.396	5.464	HH	621	18406	0.76%	0.023%
28	5.468	5.464	5.477	HH	396	2472	0.10%	0.003%
29	5.500	5.477	5.540	HH	1026	21364	0.88%	0.027%
30	5.559	5.540	5.584	HH	1356	18719	0.77%	0.024%
31	5.589	5.584	5.606	HH	408	4275	0.18%	0.005%
32	5.627	5.606	5.648	HH	421	8937	0.37%	0.011%
33	5.661	5.648	5.676	HH	646	7425	0.31%	0.009%
34	5.689	5.676	5.732	HH	455	10155	0.42%	0.013%
35	5.757	5.732	5.772	HH	611	9132	0.38%	0.012%
36	5.810	5.772	5.842	HH	1612	39126	1.61%	0.050%

					rteres			
37	5.860	5.842	5.902	HH	1310	28714	1.18%	0.036%
38	5.912	5.902	5.925	HH	435	5507	0.23%	0.007%
39	5.944	5.925	5.948	HH	468	5485	0.23%	0.007%
40	5.952	5.948	5.961	HH	435	2788	0.12%	0.004%
41	5.972	5.961	5.975	HH	372	2957	0.12%	0.004%
42	5.987	5.975	6.005	HH	540	7695	0.32%	0.010%
43	6.026	6.005	6.046	HH	1493	21058	0.87%	0.027%
44	6.068	6.046	6.110	HH	1691	38563	1.59%	0.049%
45	6.123	6.110	6.152	HH	897	14560	0.60%	0.018%
46	6.166	6.152	6.178	HH	529	6771	0.28%	0.009%
47	6.190	6.178	6.194	HH	409	3709	0.15%	0.005%
48	6.200	6.194	6.210	HH	441	3581	0.15%	0.005%
49	6.222	6.210	6.247	HH	464	7976	0.33%	0.010%
50	6.259	6.247	6.272	HH	680	7660	0.32%	0.010%
51	6.291	6.272	6.309	HH	1685	23471	0.97%	0.030%
52	6.327	6.309	6.386	HH	5039	78751	3.25%	0.100%
53	6.399	6.386	6.424	HH	2008	24787	1.02%	0.031%
54	6.433	6.424	6.463	HH	556	9210	0.38%	0.012%
55	6.480	6.463	6.491	HH	334	4924	0.20%	0.006%
56	6.506	6.491	6.559	HH	503	13661	0.56%	0.017%
57	6.578	6.559	6.597	HH	427	7026	0.29%	0.009%
58	6.624	6.597	6.639	HH	1388	21421	0.88%	0.027%
59	6.643	6.639	6.663	HH	791	8687	0.36%	0.011%
60	6.682	6.663	6.705	HH	569	9617	0.40%	0.012%
61	6.729	6.705	6.755	HH	673	13728	0.57%	0.017%
62	6.758	6.755	6.762	HH	366	1416	0.06%	0.002%
63	6.765	6.762	6.774	HH	406	2349	0.10%	0.003%
64	6.790	6.774	6.823	HH	569	9527	0.39%	0.012%
65	6.825	6.823	6.836	HH	226	1216	0.05%	0.002%
66	6.864	6.836	6.893	HH	960	14240	0.59%	0.018%
67	6.897	6.893	6.902	HH	152	866	0.04%	0.001%
68	6.912	6.902	6.926	HH	219	1959	0.08%	0.002%
69	6.946	6.926	6.964	HH	310	3984	0.16%	0.005%
70	6.999	6.964	7.021	HH	338	6301	0.26%	0.008%
71	7.026	7.021	7.031	PH	143	314	0.01%	0.000%
72	7.052	7.031	7.058	PH	259	2136	0.09%	0.003%
73	7.062	7.058	7.070	HH	213	1146	0.05%	0.001%
74	7.075	7.070	7.088	HH	168	1191	0.05%	0.002%
75	7.090	7.088	7.094	HH	3340	3161	0.13%	0.004%
76	7.109	7.094	7.143	HH	975	16595	0.68%	0.021%
77	7.162	7.143	7.181	HH	614	8685	0.36%	0.011%
78	7.198	7.181	7.213	HH	483	6274	0.26%	0.008%
79	7.228	7.213	7.233	HH	482	4576	0.19%	0.006%
80	7.240	7.233	7.261	HH	587	7333	0.30%	0.009%
81	7.274	7.261	7.310	HH	1753	35006	1.44%	0.044%
82	7.320	7.310	7.352	HH	1139	22741	0.94%	0.029%
83	7.376	7.352	7.396	HH	1095	22552	0.93%	0.029%
84	7.423	7.396	7.443	HH	2806	38795	1.60%	0.049%
85	7.456	7.443	7.496	HH	1468	21783	0.90%	0.028%
86	7.519	7.496	7.543	HH	386	7492	0.31%	0.009%
87	7.562	7.543	7.593	HH	1395	19444	0.80%	0.025%
88	7.606	7.593	7.619	HH	364	4405	0.18%	0.006%
89	7.634	7.619	7.668	HH	410	8760	0.36%	0.011%

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90	7.681	7.668	7.701	HH	345	5386	0.22%	0.007%
91	7.739	7.701	7.773	HH	615	12449	0.51%	0.016%
92	7.778	7.773	7.783	HH	195	695	0.03%	0.001%
93	7.798	7.783	7.824	HH	501	7091	0.29%	0.009%
94	7.829	7.824	7.838	HH	175	1235	0.05%	0.002%
95	7.841	7.838	7.850	HH	162	1249	0.05%	0.002%
96	7.870	7.850	7.897	HH	287	4705	0.19%	0.006%
97	7.915	7.897	7.943	HH	245	4547	0.19%	0.006%
98	7.954	7.943	7.970	HH	352	3408	0.14%	0.004%
99	7.981	7.970	8.002	HH	254	2533	0.10%	0.003%
100	8.028	8.002	8.073	PH	3698	46005	1.90%	0.058%
101	8.084	8.073	8.098	HH	188	1226	0.05%	0.002%
102	8.119	8.098	8.139	PH	289	4118	0.17%	0.005%
103	8.165	8.139	8.178	HH	1233	17133	0.71%	0.022%
104	8.198	8.178	8.214	HH	4767	56068	2.31%	0.071%
105	8.221	8.214	8.255	HH	1683	20023	0.83%	0.025%
106	8.269	8.255	8.290	HH	351	4444	0.18%	0.006%
107	8.329	8.290	8.384	HH	1188	40795	1.68%	0.052%
108	8.394	8.384	8.406	HH	644	7636	0.32%	0.010%
109	8.445	8.406	8.476	HH	2403	46585	1.92%	0.059%
110	8.495	8.476	8.506	HH	961	12413	0.51%	0.016%
111	8.512	8.506	8.524	HH	800	7647	0.32%	0.010%
112	8.544	8.524	8.562	HH	1696	24845	1.03%	0.031%
113	8.571	8.562	8.575	HH	976	7095	0.29%	0.009%
114	8.596	8.575	8.665	HH	10330	164671	6.79%	0.208%
115	8.678	8.665	8.689	HH	875	10774	0.44%	0.014%
116	8.728	8.689	8.773	HH	42225	527158	21.75%	0.667%
117	8.784	8.773	8.810	HH	1694	26869	1.11%	0.034%
118	8.814	8.810	8.834	HH	800	9465	0.39%	0.012%
119	8.851	8.834	8.872	HH	921	15245	0.63%	0.019%
120	8.889	8.872	8.912	HH	1426	23698	0.98%	0.030%
121	8.916	8.912	8.944	HH	995	14104	0.58%	0.018%
122	8.960	8.944	8.968	HH	620	8126	0.34%	0.010%
123	8.984	8.968	9.004	HH	886	15635	0.65%	0.020%
124	9.026	9.004	9.051	HH	1481	26778	1.10%	0.034%
125	9.094	9.051	9.112	HH	2584	51417	2.12%	0.065%
126	9.122	9.112	9.134	HH	1095	13050	0.54%	0.017%
127	9.144	9.134	9.179	HH	959	21782	0.90%	0.028%
128	9.188	9.179	9.202	HH	610	7686	0.32%	0.010%
129	9.225	9.202	9.257	HH	3736	57386	2.37%	0.073%
130	9.273	9.257	9.289	HH	1519	21942	0.91%	0.028%
131	9.301	9.289	9.320	HH	1112	15865	0.65%	0.020%
132	9.347	9.320	9.386	HH	2938	63560	2.62%	0.080%
133	9.395	9.386	9.417	HH	1154	17102	0.71%	0.022%
134	9.446	9.417	9.466	HH	2347	40886	1.69%	0.052%
135	9.480	9.466	9.513	HH	2010	37463	1.55%	0.047%
136	9.536	9.513	9.565	HH	5199	72186	2.98%	0.091%
137	9.593	9.565	9.612	HH	2355	42696	1.76%	0.054%
138	9.627	9.612	9.643	HH	3071	37006	1.53%	0.047%
139	9.679	9.643	9.718	HH	8792	139388	5.75%	0.176%
140	9.732	9.718	9.752	HH	1728	25627	1.06%	0.032%
141	9.775	9.752	9.801	HH	7266	97127	4.01%	0.123%

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142	9.831	9.801	9.855	HH	6302	103841	4.28%	0.131%
143	9.860	9.855	9.878	HH	1368	16962	0.70%	0.021%
144	9.896	9.878	9.910	HH	1739	26008	1.07%	0.033%
145	9.920	9.910	9.931	HH	1325	15205	0.63%	0.019%
146	9.958	9.931	9.985	HH	6667	101398	4.18%	0.128%
147	9.999	9.985	10.014	HH	1445	21548	0.89%	0.027%
148	10.030	10.014	10.050	HH	1494	29245	1.21%	0.037%
149	10.096	10.050	10.119	HH	109330	1214588	50.12%	1.538%
150	10.125	10.119	10.180	HH	3790	76213	3.14%	0.096%
151	10.194	10.180	10.210	HH	1467	22656	0.93%	0.029%
152	10.233	10.210	10.243	HH	2946	43303	1.79%	0.055%
153	10.256	10.243	10.281	HH	3798	56169	2.32%	0.071%
154	10.314	10.281	10.322	HH	1518	29354	1.21%	0.037%
155	10.334	10.322	10.360	HH	1632	27791	1.15%	0.035%
156	10.399	10.360	10.424	HH	1682	43268	1.79%	0.055%
157	10.440	10.424	10.458	HH	1576	24098	0.99%	0.031%
158	10.478	10.458	10.493	HH	1402	22277	0.92%	0.028%
159	10.510	10.493	10.540	HH	1829	35436	1.46%	0.045%
160	10.570	10.540	10.600	HH	27195	319241	13.17%	0.404%
161	10.619	10.600	10.637	HH	1889	34374	1.42%	0.044%
162	10.672	10.637	10.686	HH	3994	81465	3.36%	0.103%
163	10.700	10.686	10.722	HH	3521	54195	2.24%	0.069%
164	10.741	10.722	10.775	HH	3050	70006	2.89%	0.089%
165	10.792	10.775	10.800	HH	2174	28460	1.17%	0.036%
166	10.825	10.800	10.846	HH	4369	91647	3.78%	0.116%
167	10.867	10.846	10.890	HH	6446	106378	4.39%	0.135%
168	10.897	10.890	10.910	HH	2557	28483	1.18%	0.036%
169	10.942	10.910	10.949	HH	2968	59899	2.47%	0.076%
170	10.973	10.949	11.003	HH	4759	118192	4.88%	0.150%
171	11.023	11.003	11.038	HH	4703	74876	3.09%	0.095%
172	11.044	11.038	11.064	HH	3607	48180	1.99%	0.061%
173	11.075	11.064	11.081	HH	2450	24515	1.01%	0.031%
174	11.097	11.081	11.109	HH	2749	42896	1.77%	0.054%
175	11.114	11.109	11.131	HH	2615	30877	1.27%	0.039%
176	11.141	11.131	11.154	HH	2019	26312	1.09%	0.033%
177	11.164	11.154	11.177	HH	2120	26316	1.09%	0.033%
178	11.220	11.177	11.239	HH	24874	313475	12.93%	0.397%
179	11.248	11.239	11.259	HH	3730	39703	1.64%	0.050%
180	11.296	11.259	11.334	HH	28413	420905	17.37%	0.533%
181	11.348	11.334	11.383	HH	2481	62207	2.57%	0.079%
182	11.398	11.383	11.433	HH	2008	55123	2.27%	0.070%
183	11.448	11.433	11.452	HH	1766	20177	0.83%	0.026%
184	11.466	11.452	11.472	HH	1941	21633	0.89%	0.027%
185	11.477	11.472	11.489	HH	1881	18066	0.75%	0.023%
186	11.507	11.489	11.525	HH	4579	69694	2.88%	0.088%
187	11.532	11.525	11.554	HH	3124	41112	1.70%	0.052%
188	11.586	11.554	11.597	HH	2741	59355	2.45%	0.075%
189	11.633	11.597	11.658	HH	4044	119120	4.92%	0.151%
190	11.675	11.658	11.692	HH	4722	72368	2.99%	0.092%
191	11.716	11.692	11.732	HH	6316	114490	4.72%	0.145%
192	11.748	11.732	11.794	HH	7784	198361	8.18%	0.251%
193	11.826	11.794	11.844	HH	4895	104606	4.32%	0.132%
194	11.874	11.844	11.895	HH	7278	150350	6.20%	0.190%

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195	11.913	11.895	11.929	HH	4574	78406	3.24%	0.099%
196	11.942	11.929	11.963	HH	3635	70855	2.92%	0.090%
197	11.989	11.963	11.998	HH	3500	71620	2.96%	0.091%
198	12.026	11.998	12.041	HH	18892	255304	10.53%	0.323%
199	12.056	12.041	12.079	HH	21328	265589	10.96%	0.336%
200	12.094	12.079	12.104	HH	4276	59481	2.45%	0.075%
201	12.123	12.104	12.134	HH	14308	182190	7.52%	0.231%
202	12.140	12.134	12.155	HH	10738	112589	4.65%	0.143%
203	12.174	12.155	12.188	HH	19656	248730	10.26%	0.315%
204	12.204	12.188	12.251	HH	20748	313740	12.95%	0.397%
205	12.269	12.251	12.302	HH	3703	96729	3.99%	0.122%
206	12.324	12.302	12.332	HH	4676	69142	2.85%	0.088%
207	12.347	12.332	12.357	HH	5503	74642	3.08%	0.095%
208	12.377	12.357	12.399	HH	9190	160236	6.61%	0.203%
209	12.419	12.399	12.478	HH	8362	289371	11.94%	0.366%
210	12.498	12.478	12.516	HH	11319	173148	7.14%	0.219%
211	12.528	12.516	12.543	HH	7287	104053	4.29%	0.132%
212	12.560	12.543	12.573	HH	9255	137395	5.67%	0.174%
213	12.604	12.573	12.634	HH	173273	2371005	97.83%	3.002%
214	12.642	12.634	12.661	HH	11613	159580	6.58%	0.202%
215	12.675	12.661	12.691	HH	9191	142209	5.87%	0.180%
216	12.706	12.691	12.715	HH	8005	105015	4.33%	0.133%
217	12.727	12.715	12.740	HH	8251	112388	4.64%	0.142%
218	12.774	12.740	12.797	HH	10696	267494	11.04%	0.339%
219	12.818	12.797	12.855	HH	18457	403443	16.65%	0.511%
220	12.875	12.855	12.905	HH	16729	299226	12.35%	0.379%
221	12.929	12.905	12.947	HH	38784	551550	22.76%	0.698%
222	12.964	12.947	12.979	HH	20537	320805	13.24%	0.406%
223	12.990	12.979	13.015	HH	16945	266665	11.00%	0.338%
224	13.044	13.015	13.113	HH	95760	1456711	60.11%	1.844%
225	13.142	13.113	13.156	HH	8110	157971	6.52%	0.200%
226	13.179	13.156	13.196	HH	22181	340399	14.05%	0.431%
227	13.202	13.196	13.217	HH	11266	126531	5.22%	0.160%
228	13.236	13.217	13.271	HH	14972	382283	15.77%	0.484%
229	13.286	13.271	13.316	HH	13395	280950	11.59%	0.356%
230	13.344	13.316	13.369	HH	135141	1628533	67.19%	2.062%
231	13.397	13.369	13.417	HH	13350	309265	12.76%	0.392%
232	13.432	13.417	13.462	HH	11419	239071	9.86%	0.303%
233	13.482	13.462	13.500	HH	9747	190833	7.87%	0.242%
234	13.516	13.500	13.539	HH	10229	198302	8.18%	0.251%
235	13.551	13.539	13.571	HH	8302	139853	5.77%	0.177%
236	13.621	13.571	13.626	HH	17888	352052	14.53%	0.446%
237	13.634	13.626	13.655	HH	18350	268938	11.10%	0.341%
238	13.676	13.655	13.719	HH	23675	532442	21.97%	0.674%
239	13.741	13.719	13.757	HH	16940	294258	12.14%	0.373%
240	13.774	13.757	13.783	HH	16418	226003	9.33%	0.286%
241	13.801	13.783	13.814	HH	27354	425985	17.58%	0.539%
242	13.829	13.814	13.880	HH	45467	888217	36.65%	1.125%
243	13.932	13.880	13.974	HH	37752	1096928	45.26%	1.389%
244	14.001	13.974	14.020	HH	12712	299170	12.34%	0.379%
245	14.042	14.020	14.057	HH	17216	313103	12.92%	0.396%
246	14.079	14.057	14.102	HH	41400	636009	26.24%	0.805%

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247	14.139	14.102	14.150	HH	15606	382123	15.77%	0.484%
248	14.162	14.150	14.177	HH	15622	230695	9.52%	0.292%
249	14.211	14.177	14.231	HH	45188	780861	32.22%	0.989%
250	14.250	14.231	14.292	HH	33722	637193	26.29%	0.807%
251	14.313	14.292	14.347	HH	17299	424419	17.51%	0.537%
252	14.354	14.347	14.358	HH	9856	64560	2.66%	0.082%
253	14.365	14.358	14.370	HH	10089	72596	3.00%	0.092%
254	14.410	14.370	14.430	HH	12176	397684	16.41%	0.504%
255	14.448	14.430	14.475	HH	10685	275050	11.35%	0.348%
256	14.519	14.475	14.534	HH	14118	411592	16.98%	0.521%
257	14.554	14.534	14.565	HH	14741	246650	10.18%	0.312%
258	14.579	14.565	14.592	HH	16523	251709	10.39%	0.319%
259	14.604	14.592	14.612	HH	15457	177258	7.31%	0.224%
260	14.631	14.612	14.645	HH	19716	354830	14.64%	0.449%
261	14.665	14.645	14.688	HH	28702	558977	23.06%	0.708%
262	14.702	14.688	14.724	HH	15776	316777	13.07%	0.401%
263	14.770	14.724	14.809	HH	22248	881192	36.36%	1.116%
264	14.850	14.809	14.866	HH	30728	763178	31.49%	0.966%
265	14.878	14.866	14.892	HH	24027	331013	13.66%	0.419%
266	14.913	14.892	14.933	HH	48002	764549	31.55%	0.968%
267	14.944	14.933	14.951	HH	19340	202884	8.37%	0.257%
268	14.970	14.951	14.995	HH	27677	548670	22.64%	0.695%
269	15.037	14.995	15.056	HH	20525	604521	24.94%	0.765%
270	15.092	15.056	15.128	HH	116289	2124733	87.67%	2.690%
271	15.140	15.128	15.156	HH	15879	250213	10.32%	0.317%
272	15.177	15.156	15.194	HH	25514	457127	18.86%	0.579%
273	15.223	15.194	15.243	HH	81988	1288638	53.17%	1.632%
274	15.265	15.243	15.289	HH	102277	1491280	61.53%	1.888%
275	15.316	15.289	15.343	HH	19446	578189	23.86%	0.732%
276	15.382	15.343	15.415	HH	35200	1044518	43.10%	1.323%
277	15.432	15.415	15.449	HH	23236	430273	17.75%	0.545%
278	15.463	15.449	15.492	HH	20162	469922	19.39%	0.595%
279	15.539	15.492	15.572	HH	27412	1047534	43.22%	1.326%
280	15.585	15.572	15.604	HH	23211	405106	16.72%	0.513%
281	15.608	15.604	15.624	HH	18752	224931	9.28%	0.285%
282	15.674	15.624	15.730	HH	95292	2423599	100.00%	3.069%
283	15.740	15.730	15.759	HH	20635	351201	14.49%	0.445%
284	15.777	15.759	15.783	HH	20389	282097	11.64%	0.357%
285	15.813	15.783	15.834	HH	24847	661939	27.31%	0.838%
286	15.857	15.834	15.871	HH	27100	530753	21.90%	0.672%
287	15.899	15.871	15.919	HH	61530	1117626	46.11%	1.415%
288	15.937	15.919	15.970	HH	36144	816515	33.69%	1.034%
289	15.978	15.970	15.993	HH	22134	290226	11.97%	0.367%
290	16.042	15.993	16.047	HH	32809	895532	36.95%	1.134%
291	16.062	16.047	16.104	HH	35893	973261	40.16%	1.232%
292	16.141	16.104	16.163	HH	26015	798073	32.93%	1.010%
293	16.193	16.163	16.207	HH	23702	580876	23.97%	0.735%
294	16.226	16.207	16.248	HH	25288	559413	23.08%	0.708%
295	16.259	16.248	16.276	HH	21711	359342	14.83%	0.455%
296	16.289	16.276	16.300	HH	22110	315362	13.01%	0.399%
297	16.322	16.300	16.360	HH	26106	829369	34.22%	1.050%
298	16.374	16.360	16.396	HH	20871	438407	18.09%	0.555%
299	16.428	16.396	16.450	HH	21578	670612	27.67%	0.849%

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300	16.456	16.450	16.470	HH	20115	241270	9.96%	0.305%
301	16.508	16.470	16.525	HH	30784	827480	34.14%	1.048%
302	16.536	16.525	16.552	HH	25226	370624	15.29%	0.469%
303	16.570	16.552	16.584	HH	24024	437064	18.03%	0.553%
304	16.610	16.584	16.637	HH	29830	847867	34.98%	1.074%
305	16.653	16.637	16.662	HH	25645	370211	15.28%	0.469%
306	16.691	16.662	16.735	HH	54109	1614107	66.60%	2.044%
307	16.787	16.735	16.805	HH	102196	2084624	86.01%	2.639%
308	16.812	16.805	16.855	HH	56269	1022489	42.19%	1.295%
309	16.884	16.855	16.890	HH	24678	489520	20.20%	0.620%
310	16.915	16.890	16.940	HH	41207	935417	38.60%	1.184%
311	16.961	16.940	16.988	HH	25282	679982	28.06%	0.861%
312	17.031	16.988	17.048	HH	24590	860688	35.51%	1.090%
313	17.106	17.048	17.136	HH	94492	2355332	97.18%	2.982%
314	17.165	17.136	17.210	HH	96969	1913711	78.96%	2.423%
315	17.236	17.210	17.242	HH	26155	471664	19.46%	0.597%
316	17.265	17.242	17.289	HH	43318	917582	37.86%	1.162%
317	17.319	17.289	17.363	HH	33522	1268697	52.35%	1.606%
318	17.379	17.363	17.385	HH	27591	360501	14.87%	0.456%
319	17.410	17.385	17.456	HH	34402	1295928	53.47%	1.641%
320	17.472	17.456	17.490	HH	28662	532775	21.98%	0.675%

Sum of corrected areas: 78978955

FF061325.M Thu Jul 03 04:58:19 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	06/26/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-55	SDG No.:	Q2458
Lab Sample ID:	Q2458-02	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	91.4
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
FF016091.D	5	07/02/25 09:17	07/03/25 10:11	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	48400		923	9100	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	2.13		37 - 130	53%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\
Data File : FF016091.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 10:11
Operator : YP\AJ
Sample : Q2458-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-55

Integration File: autoint1.e
Quant Time: Jul 04 03:47:18 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...	15.099	256591	2.125 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

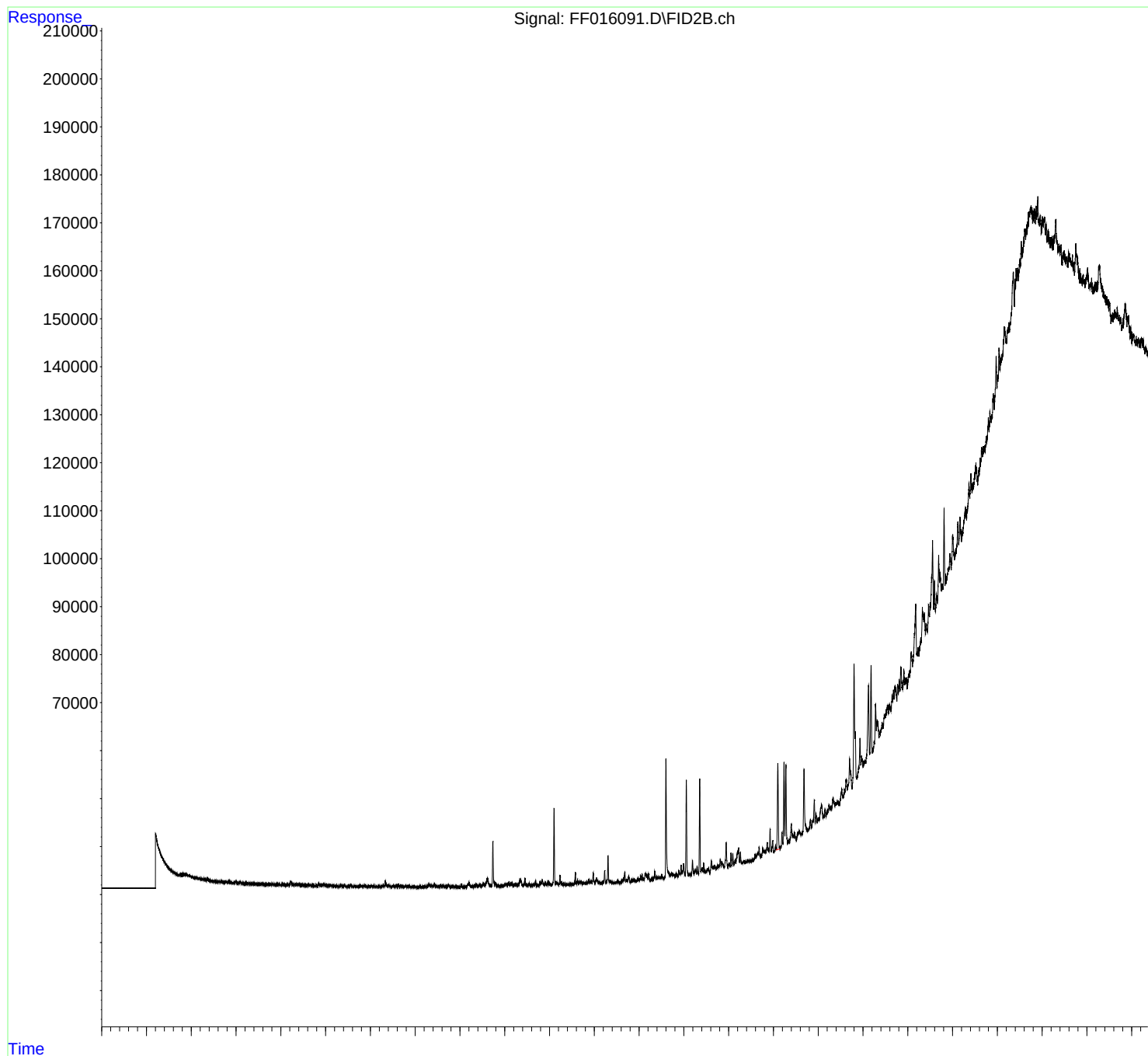
(m)=manual int.

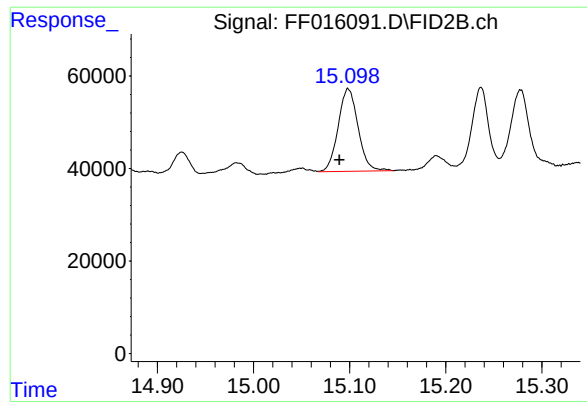
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\
Data File : FF016091.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 10:11
Operator : YP\AJ
Sample : Q2458-02 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-55

Integration File: autoint1.e
Quant Time: Jul 04 03:47:18 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.: 15.099 min
Delta R.T.: 0.009 min
Response: 256591
Conc: 2.13 ug/ml

Instrument :
FID_F
ClientSampleId :
TP-55

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\

Data File : FF016091.D

Signal(s) : FID2B.ch

Acq On : 03 Jul 2025 10:11

Sample : Q2458-02 5X

Misc :

ALS Vial : 21 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	4.317	4.302	4.327	HH	834	11921	0.72%	0.033%
2	4.338	4.327	4.348	HH	838	9930	0.60%	0.027%
3	4.355	4.348	4.362	HH	785	6293	0.38%	0.017%
4	4.381	4.362	4.409	HH	988	22158	1.34%	0.061%
5	4.424	4.409	4.439	HH	729	12325	0.75%	0.034%
6	4.443	4.439	4.449	HH	656	3580	0.22%	0.010%
7	4.454	4.449	4.466	HH	646	6551	0.40%	0.018%
8	4.479	4.466	4.502	HH	720	14003	0.85%	0.039%
9	4.508	4.502	4.514	HH	661	4338	0.26%	0.012%
10	4.519	4.514	4.545	HH	644	11533	0.70%	0.032%
11	4.552	4.545	4.564	HH	596	6446	0.39%	0.018%
12	4.572	4.564	4.587	HH	597	8098	0.49%	0.022%
13	4.613	4.587	4.635	HH	717	17963	1.09%	0.050%
14	4.656	4.635	4.680	HH	665	15890	0.96%	0.044%
15	4.693	4.680	4.727	HH	609	15696	0.95%	0.043%
16	4.731	4.727	4.734	HH	592	2403	0.15%	0.007%
17	4.738	4.734	4.753	HH	578	5716	0.35%	0.016%
18	4.757	4.753	4.767	HH	588	4307	0.26%	0.012%
19	4.779	4.767	4.784	HH	633	5616	0.34%	0.016%
20	4.788	4.784	4.799	HH	642	5043	0.31%	0.014%
21	4.802	4.799	4.810	HH	593	3701	0.22%	0.010%
22	4.818	4.810	4.823	HH	544	3888	0.24%	0.011%
23	4.845	4.823	4.872	HH	1024	20816	1.26%	0.058%

24	4.877	4.872	4.887	HH	641	5383	0.33%	0.015%
25	4.938	4.887	4.950	HH	709	24280	1.47%	0.067%
26	4.979	4.950	5.010	HH	840	24903	1.51%	0.069%
27	5.015	5.010	5.027	HH	600	5314	0.32%	0.015%
28	5.040	5.027	5.049	HH	579	6685	0.40%	0.018%
29	5.063	5.049	5.095	HH	575	14568	0.88%	0.040%
30	5.106	5.095	5.126	HH	571	9414	0.57%	0.026%
31	5.144	5.126	5.161	HH	591	10364	0.63%	0.029%
32	5.165	5.161	5.169	HH	483	2255	0.14%	0.006%
33	5.174	5.169	5.187	HH	491	4584	0.28%	0.013%
34	5.193	5.187	5.216	HH	434	6665	0.40%	0.018%
35	5.228	5.216	5.244	HH	506	7160	0.43%	0.020%
36	5.247	5.244	5.312	HH	470	15479	0.94%	0.043%
37	5.342	5.312	5.357	HH	576	12739	0.77%	0.035%
38	5.370	5.357	5.388	HH	504	8186	0.50%	0.023%
39	5.391	5.388	5.396	HH	379	1878	0.11%	0.005%
40	5.415	5.396	5.455	HH	687	16313	0.99%	0.045%
41	5.469	5.455	5.475	HH	398	4115	0.25%	0.011%
42	5.498	5.475	5.523	HH	418	10688	0.65%	0.030%
43	5.530	5.523	5.536	HH	400	2771	0.17%	0.008%
44	5.539	5.536	5.542	HH	419	1503	0.09%	0.004%
45	5.561	5.542	5.592	HH	837	15401	0.93%	0.043%
46	5.602	5.592	5.617	HH	426	5780	0.35%	0.016%
47	5.637	5.617	5.645	HH	487	6628	0.40%	0.018%
48	5.648	5.645	5.655	HH	424	2403	0.15%	0.007%
49	5.664	5.655	5.685	HH	413	5855	0.35%	0.016%
50	5.692	5.685	5.720	HH	375	6793	0.41%	0.019%
51	5.727	5.720	5.742	HH	357	4271	0.26%	0.012%
52	5.758	5.742	5.780	HH	529	10340	0.63%	0.029%
53	5.789	5.780	5.805	HH	515	6762	0.41%	0.019%
54	5.812	5.805	5.820	HH	442	3864	0.23%	0.011%
55	5.835	5.820	5.889	HH	515	17712	1.07%	0.049%
56	5.893	5.889	5.930	HH	378	8657	0.52%	0.024%
57	5.949	5.930	5.954	HH	426	5243	0.32%	0.015%
58	5.958	5.954	5.966	HH	385	2643	0.16%	0.007%
59	5.970	5.966	5.974	HH	404	1779	0.11%	0.005%
60	5.978	5.974	5.984	HH	370	1890	0.11%	0.005%
61	6.027	5.984	6.051	HH	552	15681	0.95%	0.043%
62	6.071	6.051	6.112	HH	578	15142	0.92%	0.042%

63	6.128	6.112	6.156	HH	386	8967	0.54%	0.025%
64	6.163	6.156	6.208	HH	367	10361	0.63%	0.029%
65	6.214	6.208	6.218	HH	367	1795	0.11%	0.005%
66	6.227	6.218	6.279	HH	401	13291	0.80%	0.037%
67	6.294	6.279	6.310	HH	560	8684	0.53%	0.024%
68	6.330	6.310	6.344	HH	1515	19178	1.16%	0.053%
69	6.351	6.344	6.392	HH	719	16307	0.99%	0.045%
70	6.400	6.392	6.422	HH	599	9002	0.54%	0.025%
71	6.431	6.422	6.445	HH	450	5613	0.34%	0.016%
72	6.449	6.445	6.464	HH	412	3950	0.24%	0.011%
73	6.473	6.464	6.494	HH	407	6517	0.39%	0.018%
74	6.507	6.494	6.545	HH	486	11932	0.72%	0.033%
75	6.577	6.545	6.601	HH	491	12340	0.75%	0.034%
76	6.630	6.601	6.660	HH	797	16804	1.02%	0.046%
77	6.676	6.660	6.689	HH	458	6700	0.41%	0.019%
78	6.698	6.689	6.717	HH	406	5820	0.35%	0.016%
79	6.733	6.717	6.754	HH	376	6902	0.42%	0.019%
80	6.759	6.754	6.767	HH	373	2347	0.14%	0.006%
81	6.790	6.767	6.825	HH	570	11841	0.72%	0.033%
82	6.829	6.825	6.835	HH	307	1771	0.11%	0.005%
83	6.869	6.835	6.902	HH	499	13640	0.83%	0.038%
84	6.907	6.902	6.928	HH	304	3996	0.24%	0.011%
85	6.946	6.928	6.969	HH	428	7967	0.48%	0.022%
86	6.980	6.969	7.019	HH	355	8091	0.49%	0.022%
87	7.022	7.019	7.049	HH	253	3639	0.22%	0.010%
88	7.057	7.049	7.069	HH	268	2723	0.16%	0.008%
89	7.076	7.069	7.080	HH	262	1561	0.09%	0.004%
90	7.085	7.080	7.091	HH	227	1317	0.08%	0.004%
91	7.118	7.091	7.152	HH	394	10598	0.64%	0.029%
92	7.157	7.152	7.165	HH	283	1743	0.11%	0.005%
93	7.171	7.165	7.187	HH	308	3209	0.19%	0.009%
94	7.192	7.187	7.197	HH	320	1803	0.11%	0.005%
95	7.201	7.197	7.216	HH	315	3042	0.18%	0.008%
96	7.238	7.216	7.264	HH	449	9235	0.56%	0.026%
97	7.293	7.264	7.319	HH	803	18480	1.12%	0.051%
98	7.323	7.319	7.354	HH	626	10675	0.65%	0.030%
99	7.371	7.354	7.397	HH	541	11342	0.69%	0.031%
100	7.428	7.397	7.449	HH	916	16670	1.01%	0.046%
101	7.460	7.449	7.484	HH	529	8726	0.53%	0.024%

102	7.487	7.484	7.500	HH	407	3173	0.19%	0.009%
103	7.517	7.500	7.523	HH	499	5258	0.32%	0.015%
104	7.528	7.523	7.549	HH	409	4984	0.30%	0.014%
105	7.568	7.549	7.592	HH	720	10682	0.65%	0.030%
106	7.610	7.592	7.624	HH	611	8537	0.52%	0.024%
107	7.643	7.624	7.670	HH	448	10389	0.63%	0.029%
108	7.682	7.670	7.715	HH	422	9622	0.58%	0.027%
109	7.743	7.715	7.774	HH	761	16470	1.00%	0.046%
110	7.799	7.774	7.839	HH	440	12690	0.77%	0.035%
111	7.852	7.839	7.863	HH	350	4087	0.25%	0.011%
112	7.867	7.863	7.877	HH	303	2192	0.13%	0.006%
113	7.882	7.877	7.891	HH	279	2073	0.13%	0.006%
114	7.896	7.891	7.900	HH	267	1310	0.08%	0.004%
115	7.918	7.900	7.929	HH	376	4866	0.29%	0.013%
116	7.932	7.929	7.943	HH	316	2027	0.12%	0.006%
117	7.950	7.943	7.957	HH	236	1835	0.11%	0.005%
118	7.960	7.957	7.969	HH	270	1466	0.09%	0.004%
119	7.979	7.969	8.004	HH	251	4546	0.28%	0.013%
120	8.032	8.004	8.057	HH	883	15523	0.94%	0.043%
121	8.058	8.057	8.077	HH	407	3441	0.21%	0.010%
122	8.083	8.077	8.095	HH	340	2971	0.18%	0.008%
123	8.124	8.095	8.144	HH	362	8320	0.50%	0.023%
124	8.171	8.144	8.185	HH	713	12532	0.76%	0.035%
125	8.201	8.185	8.224	HH	1179	18611	1.13%	0.051%
126	8.228	8.224	8.249	HH	543	6304	0.38%	0.017%
127	8.270	8.249	8.283	HH	399	7230	0.44%	0.020%
128	8.285	8.283	8.299	HH	361	3010	0.18%	0.008%
129	8.335	8.299	8.345	HH	579	11973	0.72%	0.033%
130	8.357	8.345	8.383	HH	663	12690	0.77%	0.035%
131	8.390	8.383	8.412	HH	513	7916	0.48%	0.022%
132	8.445	8.412	8.469	HH	786	19757	1.20%	0.055%
133	8.474	8.469	8.479	HH	450	2654	0.16%	0.007%
134	8.518	8.479	8.542	HH	996	26454	1.60%	0.073%
135	8.552	8.542	8.565	HH	832	9971	0.60%	0.028%
136	8.605	8.565	8.615	HH	2013	39584	2.39%	0.110%
137	8.625	8.615	8.671	HH	1757	33919	2.05%	0.094%
138	8.675	8.671	8.679	HH	578	2611	0.16%	0.007%
139	8.686	8.679	8.692	HH	540	4092	0.25%	0.011%
140	8.735	8.692	8.775	HH	9766	131447	7.95%	0.364%

141	8.790	8.775	8.814	HH	1190	19449	1.18%	0.054%
142	8.822	8.814	8.844	HH	550	8810	0.53%	0.024%
143	8.856	8.844	8.867	HH	589	6906	0.42%	0.019%
144	8.874	8.867	8.888	HH	494	5481	0.33%	0.015%
145	8.893	8.888	8.909	HH	537	5623	0.34%	0.016%
146	8.916	8.909	8.920	HH	495	3094	0.19%	0.009%
147	8.925	8.920	8.946	HH	519	6722	0.41%	0.019%
148	8.952	8.946	8.960	HH	469	3877	0.23%	0.011%
149	8.996	8.960	9.004	HH	663	14144	0.86%	0.039%
150	9.024	9.004	9.068	HH	866	27905	1.69%	0.077%
151	9.091	9.068	9.117	HH	1147	26125	1.58%	0.072%
152	9.128	9.117	9.139	HH	892	10649	0.64%	0.029%
153	9.164	9.139	9.206	HH	1186	31363	1.90%	0.087%
154	9.230	9.206	9.242	HH	803	13396	0.81%	0.037%
155	9.255	9.242	9.279	HH	732	15061	0.91%	0.042%
156	9.282	9.279	9.293	HH	670	5492	0.33%	0.015%
157	9.308	9.293	9.321	HH	856	12453	0.75%	0.034%
158	9.347	9.321	9.396	HH	1880	56200	3.40%	0.155%
159	9.400	9.396	9.415	HH	728	7487	0.45%	0.021%
160	9.452	9.415	9.479	HH	2074	40533	2.45%	0.112%
161	9.489	9.479	9.519	HH	941	17659	1.07%	0.049%
162	9.544	9.519	9.577	HH	1034	23746	1.44%	0.066%
163	9.599	9.577	9.617	HH	740	14911	0.90%	0.041%
164	9.636	9.617	9.654	HH	924	15705	0.95%	0.043%
165	9.687	9.654	9.717	HH	1491	32559	1.97%	0.090%
166	9.744	9.717	9.761	HH	778	16303	0.99%	0.045%
167	9.785	9.761	9.802	HH	1393	24387	1.48%	0.067%
168	9.806	9.802	9.811	HH	941	4871	0.29%	0.013%
169	9.840	9.811	9.885	HH	1612	46787	2.83%	0.129%
170	9.907	9.885	9.939	HH	1073	27524	1.67%	0.076%
171	9.966	9.939	9.995	HH	1539	33892	2.05%	0.094%
172	10.013	9.995	10.040	HH	919	21545	1.30%	0.060%
173	10.046	10.040	10.052	HH	736	4891	0.30%	0.014%
174	10.102	10.052	10.129	HH	16690	203563	12.31%	0.563%
175	10.167	10.129	10.212	HH	1236	49038	2.97%	0.136%
176	10.235	10.212	10.256	HH	2624	42446	2.57%	0.117%
177	10.268	10.256	10.289	HH	1231	19614	1.19%	0.054%
178	10.295	10.289	10.325	HH	797	15826	0.96%	0.044%
179	10.341	10.325	10.362	HH	884	17398	1.05%	0.048%
180	10.374	10.362	10.378	HH	752	6606	0.40%	0.018%

181	10.382	10.378	10.392	HH	783	6305	0.38%	0.017%
182	10.393	10.392	10.398	HH	765	2543	0.15%	0.007%
183	10.410	10.398	10.427	HH	875	13513	0.82%	0.037%
184	10.453	10.427	10.503	HH	923	36291	2.20%	0.100%
185	10.517	10.503	10.531	HH	854	12994	0.79%	0.036%
186	10.577	10.531	10.607	HH	3317	64714	3.91%	0.179%
187	10.624	10.607	10.648	HH	1613	30225	1.83%	0.084%
188	10.679	10.648	10.697	HH	1423	34986	2.12%	0.097%
189	10.710	10.697	10.736	HH	1362	26460	1.60%	0.073%
190	10.756	10.736	10.761	HH	1103	15420	0.93%	0.043%
191	10.767	10.761	10.790	HH	1126	17994	1.09%	0.050%
192	10.797	10.790	10.809	HH	1058	11676	0.71%	0.032%
193	10.826	10.809	10.837	HH	1221	18885	1.14%	0.052%
194	10.844	10.837	10.852	HH	1220	10570	0.64%	0.029%
195	10.877	10.852	10.915	HH	1903	52034	3.15%	0.144%
196	10.930	10.915	10.944	HH	1440	22144	1.34%	0.061%
197	10.976	10.944	11.012	HH	3122	71744	4.34%	0.198%
198	11.050	11.012	11.093	HH	2128	73559	4.45%	0.204%
199	11.106	11.093	11.117	HH	1224	16044	0.97%	0.044%
200	11.123	11.117	11.141	HH	1130	15110	0.91%	0.042%
201	11.162	11.141	11.177	HH	1106	22033	1.33%	0.061%
202	11.197	11.177	11.212	HH	1389	24511	1.48%	0.068%
203	11.231	11.212	11.251	HH	3657	52777	3.19%	0.146%
204	11.307	11.251	11.360	HH	6768	147733	8.94%	0.409%
205	11.368	11.360	11.389	HH	1418	22797	1.38%	0.063%
206	11.397	11.389	11.448	HH	1259	41037	2.48%	0.114%
207	11.458	11.448	11.464	HH	1138	10435	0.63%	0.029%
208	11.488	11.464	11.502	HH	1284	26508	1.60%	0.073%
209	11.519	11.502	11.537	HH	1582	29403	1.78%	0.081%
210	11.541	11.537	11.567	HH	1429	22014	1.33%	0.061%
211	11.578	11.567	11.587	HH	1172	14145	0.86%	0.039%
212	11.616	11.587	11.620	HH	1480	26762	1.62%	0.074%
213	11.624	11.620	11.629	HH	1495	7410	0.45%	0.021%
214	11.650	11.629	11.663	HH	2078	36887	2.23%	0.102%
215	11.681	11.663	11.704	HH	3244	54392	3.29%	0.150%
216	11.726	11.704	11.740	HH	1832	36432	2.20%	0.101%
217	11.769	11.740	11.815	HH	2408	78967	4.78%	0.218%
218	11.838	11.815	11.857	HH	1656	37596	2.27%	0.104%
219	11.875	11.857	11.900	HH	1919	42721	2.58%	0.118%

220	11.906	11.900	11.909	HH	1589	8212	0.50%	0.023%
221	11.925	11.909	11.945	HH	1631	32860	1.99%	0.091%
222	11.967	11.945	12.009	HH	1872	66459	4.02%	0.184%
223	12.036	12.009	12.051	HH	2598	51653	3.12%	0.143%
224	12.068	12.051	12.087	HH	2866	49503	2.99%	0.137%
225	12.098	12.087	12.114	HH	2042	29749	1.80%	0.082%
226	12.134	12.114	12.144	HH	3201	45515	2.75%	0.126%
227	12.155	12.144	12.173	HH	2975	47527	2.88%	0.131%
228	12.185	12.173	12.199	HH	2665	37021	2.24%	0.102%
229	12.215	12.199	12.250	HH	2959	66498	4.02%	0.184%
230	12.255	12.250	12.260	HH	1693	9847	0.60%	0.027%
231	12.287	12.260	12.310	HH	2114	55525	3.36%	0.154%
232	12.352	12.310	12.376	HH	3548	97828	5.92%	0.271%
233	12.397	12.376	12.414	HH	2352	48662	2.94%	0.135%
234	12.428	12.414	12.446	HH	2342	41780	2.53%	0.116%
235	12.469	12.446	12.487	HH	2228	53157	3.22%	0.147%
236	12.510	12.487	12.532	HH	2833	64991	3.93%	0.180%
237	12.541	12.532	12.549	HH	2122	21182	1.28%	0.059%
238	12.575	12.549	12.581	HH	2348	41232	2.49%	0.114%
239	12.600	12.581	12.699	HH	27028	487125	29.47%	1.348%
240	12.721	12.699	12.752	HH	3080	90284	5.46%	0.250%
241	12.765	12.752	12.798	HH	2836	74219	4.49%	0.205%
242	12.828	12.798	12.866	HH	3079	110773	6.70%	0.306%
243	12.890	12.866	12.911	HH	3703	82781	5.01%	0.229%
244	12.939	12.911	12.957	HH	4845	101816	6.16%	0.282%
245	12.994	12.957	13.020	HH	5128	145577	8.81%	0.403%
246	13.026	13.020	13.030	HH	3069	17923	1.08%	0.050%
247	13.055	13.030	13.100	HH	22529	339394	20.53%	0.939%
248	13.120	13.100	13.142	HH	2915	68377	4.14%	0.189%
249	13.161	13.142	13.172	HH	2972	52212	3.16%	0.144%
250	13.193	13.172	13.230	HH	5815	139663	8.45%	0.386%
251	13.245	13.230	13.283	HH	3718	111522	6.75%	0.309%
252	13.297	13.283	13.325	HH	4426	92344	5.59%	0.255%
253	13.354	13.325	13.379	HH	22806	317617	19.21%	0.879%
254	13.408	13.379	13.425	HH	4320	107326	6.49%	0.297%
255	13.441	13.425	13.475	HH	5230	120174	7.27%	0.332%
256	13.492	13.475	13.506	HH	3539	63233	3.83%	0.175%
257	13.526	13.506	13.544	HH	3999	84325	5.10%	0.233%
258	13.552	13.544	13.579	HH	4062	78040	4.72%	0.216%

259	13.618	13.579	13.642	HH	5530	168991	10.22%	0.468%
260	13.645	13.642	13.674	HH	4180	77754	4.70%	0.215%
261	13.689	13.674	13.711	HH	4681	98596	5.96%	0.273%
262	13.724	13.711	13.737	HH	4214	63779	3.86%	0.176%
263	13.755	13.737	13.770	HH	4899	89309	5.40%	0.247%
264	13.814	13.770	13.832	HH	5932	185371	11.21%	0.513%
265	13.847	13.832	13.874	HH	5506	126875	7.68%	0.351%
266	13.878	13.874	13.904	HH	4787	80888	4.89%	0.224%
267	13.945	13.904	13.981	HH	9546	282569	17.09%	0.782%
268	14.014	13.981	14.030	HH	5231	140484	8.50%	0.389%
269	14.052	14.030	14.073	HH	7362	153930	9.31%	0.426%
270	14.093	14.073	14.124	HH	7222	171714	10.39%	0.475%
271	14.146	14.124	14.160	HH	5861	118958	7.20%	0.329%
272	14.199	14.160	14.209	HH	7748	192707	11.66%	0.533%
273	14.223	14.209	14.243	HH	8445	149506	9.04%	0.414%
274	14.263	14.243	14.295	HH	7470	187013	11.31%	0.517%
275	14.312	14.295	14.320	HH	5372	79232	4.79%	0.219%
276	14.338	14.320	14.355	HH	5696	115850	7.01%	0.321%
277	14.372	14.355	14.385	HH	5517	97513	5.90%	0.270%
278	14.427	14.385	14.460	HH	5902	250899	15.18%	0.694%
279	14.478	14.460	14.495	HH	5879	118491	7.17%	0.328%
280	14.528	14.495	14.542	HH	5917	159065	9.62%	0.440%
281	14.561	14.542	14.566	HH	6071	85252	5.16%	0.236%
282	14.587	14.566	14.604	HH	7050	147766	8.94%	0.409%
283	14.650	14.604	14.665	HH	7384	254598	15.40%	0.704%
284	14.681	14.665	14.698	HH	8460	152622	9.23%	0.422%
285	14.713	14.698	14.734	HH	6976	143431	8.68%	0.397%
286	14.761	14.734	14.775	HH	8212	186368	11.27%	0.516%
287	14.787	14.775	14.802	HH	7912	122415	7.41%	0.339%
288	14.824	14.802	14.833	HH	7817	140107	8.48%	0.388%
289	14.863	14.833	14.882	HH	9529	250998	15.18%	0.694%
290	14.890	14.882	14.902	HH	8153	96389	5.83%	0.267%
291	14.925	14.902	14.945	HH	12238	249962	15.12%	0.692%
292	14.983	14.945	15.011	HH	9928	332003	20.09%	0.919%
293	15.050	15.011	15.067	HH	8737	273410	16.54%	0.756%
294	15.099	15.067	15.146	HH	25913	638467	38.63%	1.766%
295	15.154	15.146	15.166	HH	8346	98707	5.97%	0.273%
296	15.190	15.166	15.210	HH	11459	262236	15.86%	0.726%
297	15.237	15.210	15.256	HH	26225	449193	27.17%	1.243%

298	15.278	15.256	15.316	HH	25729	551096	33.34%	1.525%
299	15.337	15.316	15.355	HH	9974	228049	13.80%	0.631%
300	15.399	15.355	15.427	HH	13388	479520	29.01%	1.327%
301	15.439	15.427	15.453	HH	11116	175303	10.61%	0.485%
302	15.471	15.453	15.507	HH	11566	349083	21.12%	0.966%
303	15.545	15.507	15.560	HH	11479	344381	20.83%	0.953%
304	15.578	15.560	15.609	HH	11939	341754	20.67%	0.946%
305	15.614	15.609	15.622	HH	11248	89712	5.43%	0.248%
306	15.625	15.622	15.630	HH	11198	55874	3.38%	0.155%
307	15.644	15.630	15.650	HH	11559	136477	8.26%	0.378%
308	15.683	15.650	15.744	HH	24679	862531	52.18%	2.386%
309	15.750	15.744	15.770	HH	12313	191010	11.56%	0.528%
310	15.827	15.770	15.854	HH	14194	648175	39.21%	1.793%
311	15.876	15.854	15.885	HH	14060	255077	15.43%	0.706%
312	15.913	15.885	15.935	HH	18400	466521	28.22%	1.291%
313	15.950	15.935	15.984	HH	15639	426709	25.81%	1.181%
314	15.998	15.984	16.012	HH	14666	243235	14.71%	0.673%
315	16.072	16.012	16.108	HH	17443	908166	54.94%	2.513%
316	16.123	16.108	16.131	HH	15130	207432	12.55%	0.574%
317	16.156	16.131	16.173	HH	16337	386048	23.35%	1.068%
318	16.207	16.173	16.216	HH	16399	412214	24.94%	1.140%
319	16.240	16.216	16.259	HH	17272	421073	25.47%	1.165%
320	16.265	16.259	16.271	HH	16962	117629	7.12%	0.325%
321	16.285	16.271	16.300	HH	17104	296030	17.91%	0.819%
322	16.330	16.300	16.369	HH	18684	736845	44.58%	2.039%
323	16.384	16.369	16.404	HH	17844	362611	21.94%	1.003%
324	16.410	16.404	16.423	HH	17871	205666	12.44%	0.569%
325	16.429	16.423	16.434	HH	17948	114663	6.94%	0.317%
326	16.444	16.434	16.467	HH	18079	360307	21.80%	0.997%
327	16.524	16.467	16.565	HH	20557	1117505	67.61%	3.092%
328	16.587	16.565	16.599	HH	20496	398743	24.12%	1.103%
329	16.631	16.599	16.654	HH	22761	708686	42.87%	1.961%
330	16.701	16.654	16.755	HH	27044	1402419	84.84%	3.880%
331	16.801	16.755	16.820	HH	46779	1192014	72.11%	3.298%
332	16.827	16.820	16.875	HH	32660	865960	52.39%	2.396%
333	16.933	16.875	16.953	HH	31199	1228180	74.30%	3.398%
334	16.969	16.953	16.977	HH	27499	393633	23.81%	1.089%
335	16.985	16.977	17.001	HH	26973	373773	22.61%	1.034%
336	17.018	17.001	17.033	HH	26562	505313	30.57%	1.398%

337	17.040	17.033	17.045	HH	26499	189081	11.44%	0.523%
338	17.049	17.045	17.060	HH	26603	242871	14.69%	0.672%
339	17.123	17.060	17.146	HH	42200	1652983	100.00%	4.573%
340	17.181	17.146	17.212	HH	46467	1348236	81.56%	3.730%

Sum of corrected areas: 36143848

FF061325.M Fri Jul 04 04:53:09 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-68	SDG No.:	Q2458
Lab Sample ID:	Q2458-03	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	92.3
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016079.D	1	07/02/25 09:17	07/02/25 21:05	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	21100		183	1800	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	9.51		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_F\Data\FF070225\
Data File : FF016079.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 21:05
Operator : YP\AJ
Sample : Q2458-03
Misc :
ALS Vial : 83 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-68

Integration File: autoint1.e
Quant Time: Jul 03 03:23:09 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...	15.097	1148340	9.511 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

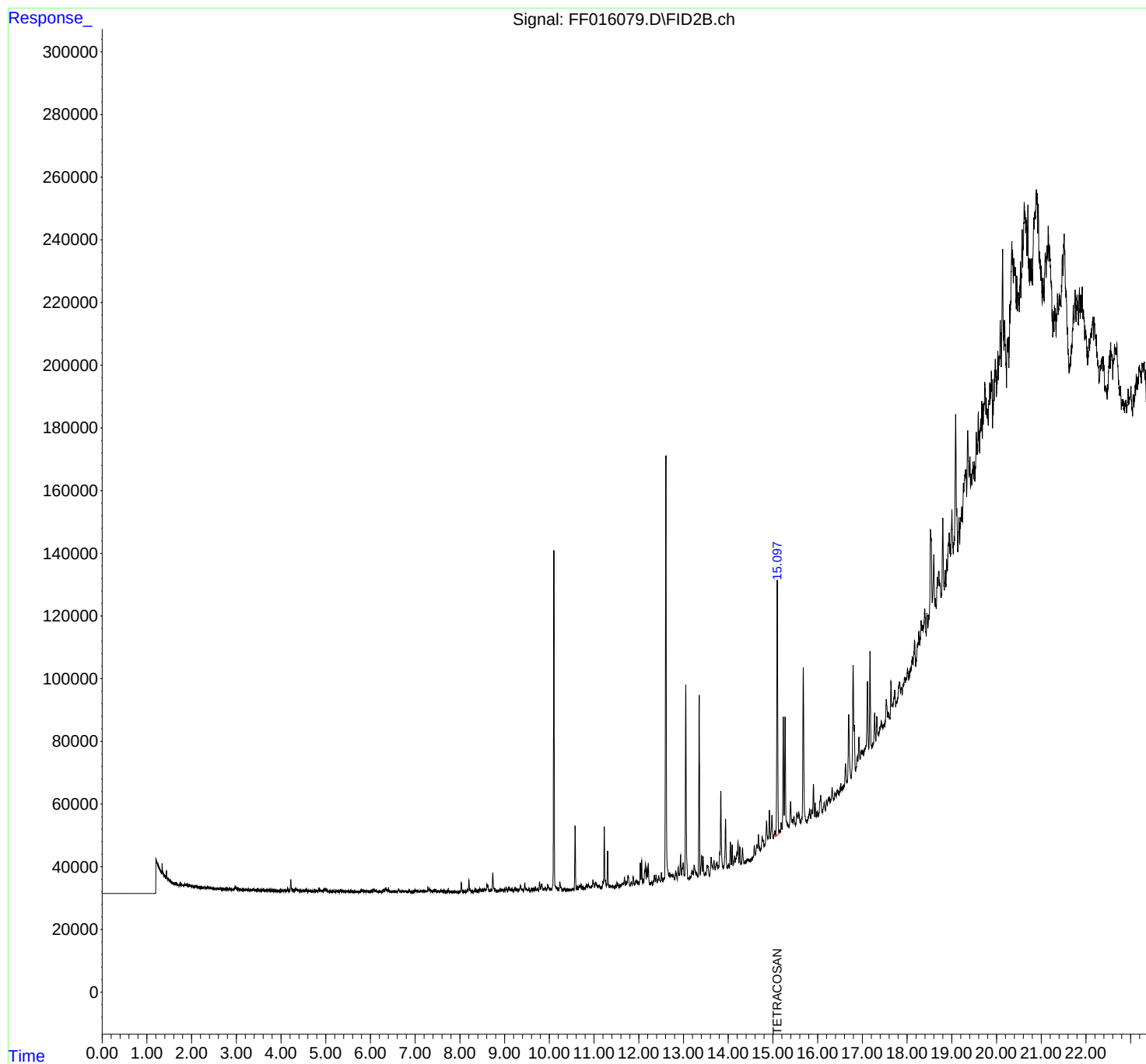
(m)=manual int.

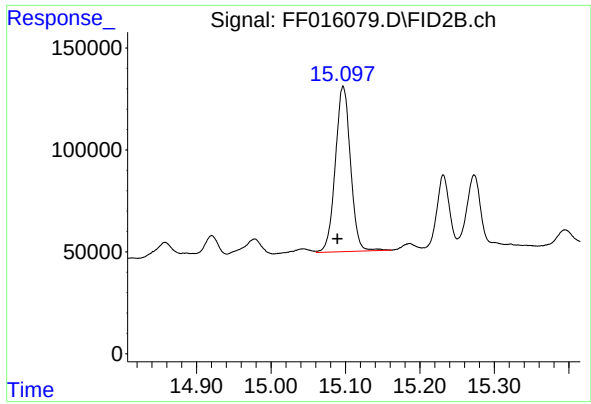
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016079.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 21:05
Operator : YP\AJ
Sample : Q2458-03
Misc :
ALS Vial : 83 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-68

Integration File: autoint1.e
Quant Time: Jul 03 03:23:09 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.: 15.097 min
Delta R.T.: 0.008 min
Response: 1148340
Conc: 9.51 ug/ml

Instrument :
FID_F
ClientSampleId :
TP-68

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016079.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 21:05
Sample : Q2458-03
Misc :
ALS Vial : 83 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	4.529	4.514	4.547	HH	943	17054	0.73%	0.021%
2	4.568	4.547	4.602	HH	1146	29906	1.29%	0.037%
3	4.618	4.602	4.639	HH	1020	19317	0.83%	0.024%
4	4.645	4.639	4.652	HH	804	6270	0.27%	0.008%
5	4.656	4.652	4.667	HH	851	7260	0.31%	0.009%
6	4.672	4.667	4.690	HH	783	10441	0.45%	0.013%
7	4.696	4.690	4.730	HH	797	17923	0.77%	0.022%
8	4.733	4.730	4.737	HH	811	2780	0.12%	0.003%
9	4.751	4.737	4.756	HH	840	9114	0.39%	0.011%
10	4.759	4.756	4.766	HH	781	4380	0.19%	0.005%
11	4.782	4.766	4.817	HH	1092	25593	1.10%	0.032%
12	4.848	4.817	4.888	HH	1806	45598	1.96%	0.057%
13	4.894	4.888	4.904	HH	934	8564	0.37%	0.011%
14	4.915	4.904	4.921	HH	873	8669	0.37%	0.011%
15	4.928	4.921	4.937	HH	937	7989	0.34%	0.010%
16	4.984	4.937	5.002	HH	1251	41514	1.78%	0.052%
17	5.009	5.002	5.059	HH	1198	29073	1.25%	0.036%
18	5.063	5.059	5.068	HH	757	4228	0.18%	0.005%
19	5.074	5.068	5.087	HH	744	7773	0.33%	0.010%
20	5.091	5.087	5.094	HH	714	2807	0.12%	0.003%
21	5.098	5.094	5.112	HH	719	7501	0.32%	0.009%
22	5.120	5.112	5.150	HH	760	15768	0.68%	0.020%
23	5.157	5.150	5.164	HH	695	5429	0.23%	0.007%
24	5.170	5.164	5.189	HH	690	9455	0.41%	0.012%
25	5.194	5.189	5.199	HH	623	3570	0.15%	0.004%
26	5.205	5.199	5.229	HH	624	11425	0.49%	0.014%
27	5.235	5.229	5.240	HH	692	4040	0.17%	0.005%
28	5.275	5.240	5.310	HH	718	26549	1.14%	0.033%
29	5.330	5.310	5.405	HH	1137	42295	1.82%	0.053%
30	5.436	5.405	5.467	HH	757	23734	1.02%	0.030%
31	5.471	5.467	5.486	HH	633	6624	0.28%	0.008%
32	5.503	5.486	5.545	HH	719	21828	0.94%	0.027%
33	5.561	5.545	5.587	HH	1137	19691	0.85%	0.025%
34	5.595	5.587	5.620	HH	681	11463	0.49%	0.014%
35	5.625	5.620	5.657	HH	692	12576	0.54%	0.016%
36	5.669	5.657	5.674	HH	564	5310	0.23%	0.007%

					rteres			
37	5.682	5.674	5.692	HH	587	6008	0.26%	0.007%
38	5.699	5.692	5.704	HH	549	3796	0.16%	0.005%
39	5.708	5.704	5.728	HH	554	7131	0.31%	0.009%
40	5.759	5.728	5.772	HH	648	14610	0.63%	0.018%
41	5.791	5.772	5.818	HH	1285	22583	0.97%	0.028%
42	5.833	5.818	5.846	HH	1218	15303	0.66%	0.019%
43	5.858	5.846	5.899	HH	881	21764	0.94%	0.027%
44	5.902	5.899	5.906	HH	645	2485	0.11%	0.003%
45	5.916	5.906	5.937	HH	675	11210	0.48%	0.014%
46	5.952	5.937	5.961	HH	649	8363	0.36%	0.010%
47	5.987	5.961	5.996	HH	765	13188	0.57%	0.016%
48	5.999	5.996	6.006	HH	685	3685	0.16%	0.005%
49	6.031	6.006	6.053	HH	1057	21562	0.93%	0.027%
50	6.074	6.053	6.112	HH	1393	32020	1.38%	0.040%
51	6.125	6.112	6.149	HH	1013	16972	0.73%	0.021%
52	6.154	6.149	6.157	HH	643	2982	0.13%	0.004%
53	6.172	6.157	6.179	HH	726	8488	0.36%	0.011%
54	6.190	6.179	6.196	HH	682	6598	0.28%	0.008%
55	6.200	6.196	6.222	HH	652	9333	0.40%	0.012%
56	6.229	6.222	6.254	HH	677	11134	0.48%	0.014%
57	6.294	6.254	6.313	HH	1349	27947	1.20%	0.035%
58	6.344	6.313	6.381	HH	1922	48784	2.10%	0.061%
59	6.402	6.381	6.429	HH	1833	29568	1.27%	0.037%
60	6.434	6.429	6.452	HH	700	8251	0.35%	0.010%
61	6.458	6.452	6.470	HH	575	5840	0.25%	0.007%
62	6.480	6.470	6.495	HH	608	8223	0.35%	0.010%
63	6.509	6.495	6.552	HH	841	21067	0.91%	0.026%
64	6.561	6.552	6.570	HH	560	5452	0.23%	0.007%
65	6.579	6.570	6.592	HH	660	7598	0.33%	0.009%
66	6.594	6.592	6.602	HH	608	3037	0.13%	0.004%
67	6.629	6.602	6.668	HH	1519	35788	1.54%	0.045%
68	6.681	6.668	6.704	HH	706	13370	0.57%	0.017%
69	6.719	6.704	6.761	HH	777	23096	0.99%	0.029%
70	6.766	6.761	6.782	HH	636	7831	0.34%	0.010%
71	6.794	6.782	6.831	HH	842	18426	0.79%	0.023%
72	6.835	6.831	6.848	HH	578	5246	0.23%	0.007%
73	6.867	6.848	6.895	HH	1195	21210	0.91%	0.026%
74	6.922	6.895	6.935	HH	569	12426	0.53%	0.015%
75	6.941	6.935	6.944	HH	619	3111	0.13%	0.004%
76	6.951	6.944	6.967	HH	627	7280	0.31%	0.009%
77	7.005	6.967	7.011	HH	1024	21531	0.93%	0.027%
78	7.014	7.011	7.032	HH	1002	11140	0.48%	0.014%
79	7.048	7.032	7.098	HH	849	28699	1.23%	0.036%
80	7.118	7.098	7.154	HH	793	23027	0.99%	0.029%
81	7.204	7.154	7.219	HH	790	25524	1.10%	0.032%
82	7.234	7.219	7.240	HH	678	8056	0.35%	0.010%
83	7.249	7.240	7.269	HH	719	10921	0.47%	0.014%
84	7.284	7.269	7.313	HH	2147	36187	1.56%	0.045%
85	7.328	7.313	7.351	HH	1441	24269	1.04%	0.030%
86	7.376	7.351	7.400	HH	794	20503	0.88%	0.026%
87	7.429	7.400	7.446	HH	1164	23147	1.00%	0.029%
88	7.462	7.446	7.500	HH	1243	25128	1.08%	0.031%
89	7.522	7.500	7.549	HH	838	18996	0.82%	0.024%

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90	7.569	7.549	7.597	HH	1003	20961	0.90%	0.026%
91	7.611	7.597	7.622	HH	674	9078	0.39%	0.011%
92	7.633	7.622	7.659	HH	757	14330	0.62%	0.018%
93	7.696	7.659	7.704	HH	653	15708	0.68%	0.020%
94	7.709	7.704	7.715	HH	573	3749	0.16%	0.005%
95	7.741	7.715	7.765	HH	1103	23000	0.99%	0.029%
96	7.770	7.765	7.789	HH	556	7444	0.32%	0.009%
97	7.802	7.789	7.819	HH	748	11196	0.48%	0.014%
98	7.874	7.819	7.899	HH	641	24684	1.06%	0.031%
99	7.903	7.899	7.909	HH	488	2710	0.12%	0.003%
100	7.923	7.909	7.977	HH	611	19850	0.85%	0.025%
101	7.983	7.977	8.005	HH	590	8010	0.34%	0.010%
102	8.033	8.005	8.079	HH	3414	54987	2.36%	0.068%
103	8.087	8.079	8.093	HH	625	4740	0.20%	0.006%
104	8.096	8.093	8.120	HH	577	8570	0.37%	0.011%
105	8.126	8.120	8.143	HH	579	7247	0.31%	0.009%
106	8.166	8.143	8.183	HH	1344	23192	1.00%	0.029%
107	8.202	8.183	8.221	HH	4273	53857	2.32%	0.067%
108	8.227	8.221	8.258	HH	1219	19235	0.83%	0.024%
109	8.275	8.258	8.295	HH	630	12498	0.54%	0.016%
110	8.333	8.295	8.366	HH	1012	35139	1.51%	0.044%
111	8.378	8.366	8.392	HH	863	12873	0.55%	0.016%
112	8.396	8.392	8.413	HH	821	9175	0.39%	0.011%
113	8.448	8.413	8.482	HH	1524	41629	1.79%	0.052%
114	8.516	8.482	8.530	HH	1167	29042	1.25%	0.036%
115	8.550	8.530	8.567	HH	1603	26785	1.15%	0.033%
116	8.576	8.567	8.585	HH	1307	12393	0.53%	0.015%
117	8.605	8.585	8.614	HH	2707	36133	1.55%	0.045%
118	8.624	8.614	8.666	HH	2640	49359	2.12%	0.061%
119	8.685	8.666	8.695	HH	1145	18146	0.78%	0.023%
120	8.701	8.695	8.709	HH	1107	8968	0.39%	0.011%
121	8.736	8.709	8.782	HH	6631	113661	4.89%	0.142%
122	8.790	8.782	8.809	HH	1155	15699	0.68%	0.020%
123	8.824	8.809	8.835	HH	917	13206	0.57%	0.016%
124	8.858	8.835	8.882	HH	944	22171	0.95%	0.028%
125	8.897	8.882	8.912	HH	1458	20389	0.88%	0.025%
126	8.923	8.912	8.967	HH	1387	34999	1.50%	0.044%
127	8.994	8.967	9.013	HH	1129	26842	1.15%	0.033%
128	9.033	9.013	9.071	HH	1951	44197	1.90%	0.055%
129	9.097	9.071	9.118	HH	2027	39841	1.71%	0.050%
130	9.126	9.118	9.140	HH	1232	15029	0.65%	0.019%
131	9.167	9.140	9.191	HH	1550	35567	1.53%	0.044%
132	9.197	9.191	9.202	HH	962	6364	0.27%	0.008%
133	9.232	9.202	9.260	HH	1892	45373	1.95%	0.056%
134	9.277	9.260	9.294	HH	1357	23201	1.00%	0.029%
135	9.310	9.294	9.330	HH	1272	23789	1.02%	0.030%
136	9.353	9.330	9.384	HH	2431	54001	2.32%	0.067%
137	9.397	9.384	9.417	HH	1173	20917	0.90%	0.026%
138	9.452	9.417	9.474	HH	3174	58883	2.53%	0.073%
139	9.486	9.474	9.522	HH	1689	35249	1.52%	0.044%
140	9.543	9.522	9.566	HH	1491	29954	1.29%	0.037%
141	9.571	9.566	9.575	HH	854	4496	0.19%	0.006%

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142	9.601	9.575	9.620	HH	1639	33107	1.42%	0.041%
143	9.634	9.620	9.654	HH	1546	25557	1.10%	0.032%
144	9.687	9.654	9.713	HH	2169	48305	2.08%	0.060%
145	9.739	9.713	9.760	HH	1497	34071	1.46%	0.042%
146	9.782	9.760	9.807	HH	3663	59230	2.55%	0.074%
147	9.828	9.807	9.864	HH	2832	71523	3.08%	0.089%
148	9.869	9.864	9.883	HH	1246	13901	0.60%	0.017%
149	9.902	9.883	9.935	HH	1873	44243	1.90%	0.055%
150	9.968	9.935	10.020	HH	2703	86092	3.70%	0.107%
151	10.032	10.020	10.048	HH	1552	22662	0.97%	0.028%
152	10.102	10.048	10.162	HH	109403	1210046	52.03%	1.507%
153	10.167	10.162	10.190	HH	1740	26308	1.13%	0.033%
154	10.196	10.190	10.214	HH	1357	18052	0.78%	0.022%
155	10.236	10.214	10.291	HH	3534	93118	4.00%	0.116%
156	10.309	10.291	10.320	HH	1261	21344	0.92%	0.027%
157	10.340	10.320	10.367	HH	1599	36349	1.56%	0.045%
158	10.380	10.367	10.388	HH	1106	13140	0.56%	0.016%
159	10.407	10.388	10.435	HH	1338	32192	1.38%	0.040%
160	10.449	10.435	10.461	HH	1229	17752	0.76%	0.022%
161	10.465	10.461	10.474	HH	1091	8659	0.37%	0.011%
162	10.484	10.474	10.498	HH	1136	15167	0.65%	0.019%
163	10.515	10.498	10.526	HH	1200	19105	0.82%	0.024%
164	10.539	10.526	10.550	HH	1392	18826	0.81%	0.023%
165	10.576	10.550	10.604	HH	21716	255204	10.97%	0.318%
166	10.625	10.604	10.643	HH	2299	42985	1.85%	0.054%
167	10.678	10.643	10.692	HH	2557	61485	2.64%	0.077%
168	10.709	10.692	10.729	HH	2846	48508	2.09%	0.060%
169	10.748	10.729	10.785	HH	2450	62325	2.68%	0.078%
170	10.827	10.785	10.857	HH	2859	91708	3.94%	0.114%
171	10.875	10.857	10.897	HH	2966	59633	2.56%	0.074%
172	10.903	10.897	10.916	HH	2114	22572	0.97%	0.028%
173	10.929	10.916	10.945	HH	2184	35102	1.51%	0.044%
174	10.976	10.945	11.011	HH	4427	115769	4.98%	0.144%
175	11.031	11.011	11.089	HH	3407	125721	5.41%	0.157%
176	11.101	11.089	11.118	HH	2342	39853	1.71%	0.050%
177	11.126	11.118	11.142	HH	2390	30792	1.32%	0.038%
178	11.165	11.142	11.179	HH	1973	40690	1.75%	0.051%
179	11.200	11.179	11.209	HH	3845	53840	2.31%	0.067%
180	11.229	11.209	11.278	HH	21346	305741	13.15%	0.381%
181	11.304	11.278	11.342	HH	13578	211495	9.09%	0.263%
182	11.353	11.342	11.388	HH	2335	60243	2.59%	0.075%
183	11.403	11.388	11.419	HH	2321	41397	1.78%	0.052%
184	11.428	11.419	11.457	HH	2241	47418	2.04%	0.059%
185	11.476	11.457	11.482	HH	2310	31945	1.37%	0.040%
186	11.486	11.482	11.498	HH	2267	20986	0.90%	0.026%
187	11.515	11.498	11.533	HH	3251	57692	2.48%	0.072%
188	11.538	11.533	11.562	HH	2766	42446	1.83%	0.053%
189	11.591	11.562	11.605	HH	2660	61393	2.64%	0.076%
190	11.652	11.605	11.663	HH	3249	104779	4.51%	0.130%
191	11.681	11.663	11.699	HH	5024	82925	3.57%	0.103%
192	11.722	11.699	11.730	HH	3450	61309	2.64%	0.076%
193	11.762	11.730	11.809	HH	5537	184539	7.93%	0.230%
194	11.831	11.809	11.852	HH	3797	83162	3.58%	0.104%

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195	11.878	11.852	11.907	HH	5095	121912	5.24%	0.152%
196	11.941	11.907	11.970	HH	4371	135918	5.84%	0.169%
197	11.982	11.970	12.003	HH	3612	65742	2.83%	0.082%
198	12.035	12.003	12.049	HH	9723	153406	6.60%	0.191%
199	12.065	12.049	12.085	HH	10663	148903	6.40%	0.185%
200	12.099	12.085	12.112	HH	4270	62081	2.67%	0.077%
201	12.132	12.112	12.137	HH	7295	85274	3.67%	0.106%
202	12.149	12.137	12.166	HH	9610	131319	5.65%	0.164%
203	12.183	12.166	12.197	HH	8297	121499	5.22%	0.151%
204	12.213	12.197	12.242	HH	9636	160596	6.91%	0.200%
205	12.248	12.242	12.265	HH	3024	41400	1.78%	0.052%
206	12.288	12.265	12.310	HH	3653	89192	3.84%	0.111%
207	12.352	12.310	12.370	HH	5881	153767	6.61%	0.191%
208	12.388	12.370	12.409	HH	5809	107042	4.60%	0.133%
209	12.446	12.409	12.486	HH	5686	205801	8.85%	0.256%
210	12.507	12.486	12.526	HH	6730	122765	5.28%	0.153%
211	12.538	12.526	12.550	HH	4540	62113	2.67%	0.077%
212	12.567	12.550	12.577	HH	4974	75093	3.23%	0.094%
213	12.607	12.577	12.670	HH	139552	1994640	85.76%	2.484%
214	12.683	12.670	12.699	HH	6484	99400	4.27%	0.124%
215	12.712	12.699	12.725	HH	6092	92295	3.97%	0.115%
216	12.735	12.725	12.750	HH	5969	85428	3.67%	0.106%
217	12.760	12.750	12.771	HH	5769	67665	2.91%	0.084%
218	12.780	12.771	12.804	HH	5770	104646	4.50%	0.130%
219	12.826	12.804	12.861	HH	7221	195965	8.43%	0.244%
220	12.883	12.861	12.901	HH	8422	155107	6.67%	0.193%
221	12.936	12.901	12.955	HH	12144	258656	11.12%	0.322%
222	12.994	12.955	13.014	HH	9745	273671	11.77%	0.341%
223	13.052	13.014	13.100	HH	66545	1010649	43.46%	1.258%
224	13.114	13.100	13.130	HH	4968	84048	3.61%	0.105%
225	13.151	13.130	13.164	HH	5381	102978	4.43%	0.128%
226	13.190	13.164	13.202	HH	7434	146514	6.30%	0.182%
227	13.210	13.202	13.223	HH	6953	83613	3.60%	0.104%
228	13.241	13.223	13.282	HH	8975	261928	11.26%	0.326%
229	13.293	13.282	13.325	HH	6569	156377	6.72%	0.195%
230	13.351	13.325	13.375	HH	63270	795805	34.22%	0.991%
231	13.407	13.375	13.424	HH	11938	263259	11.32%	0.328%
232	13.439	13.424	13.469	HH	11642	223369	9.60%	0.278%
233	13.492	13.469	13.506	HH	6596	139318	5.99%	0.173%
234	13.527	13.506	13.538	HH	8968	150947	6.49%	0.188%
235	13.546	13.538	13.577	HH	8783	172052	7.40%	0.214%
236	13.620	13.577	13.662	HH	11612	428822	18.44%	0.534%
237	13.681	13.662	13.708	HH	10294	249969	10.75%	0.311%
238	13.748	13.708	13.765	HH	10029	309063	13.29%	0.385%
239	13.781	13.765	13.786	HH	8462	102126	4.39%	0.127%
240	13.812	13.786	13.819	HH	13339	216189	9.30%	0.269%
241	13.835	13.819	13.891	HH	32598	670203	28.82%	0.835%
242	13.941	13.891	13.980	HH	23683	663979	28.55%	0.827%
243	14.010	13.980	14.025	HH	9479	234159	10.07%	0.292%
244	14.049	14.025	14.071	HH	16367	329772	14.18%	0.411%
245	14.089	14.071	14.109	HH	15552	276992	11.91%	0.345%
246	14.144	14.109	14.161	HH	12007	320775	13.79%	0.399%

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247	14.195	14.161	14.204	HH	12848	304848	13.11%	0.380%
248	14.219	14.204	14.241	HH	16539	293004	12.60%	0.365%
249	14.260	14.241	14.292	HH	14738	354175	15.23%	0.441%
250	14.320	14.292	14.353	HH	14538	419383	18.03%	0.522%
251	14.369	14.353	14.389	HH	10022	212689	9.15%	0.265%
252	14.429	14.389	14.442	HH	10829	332694	14.30%	0.414%
253	14.446	14.442	14.455	HH	10736	79522	3.42%	0.099%
254	14.471	14.455	14.482	HH	10792	174327	7.50%	0.217%
255	14.500	14.482	14.511	HH	10671	178755	7.69%	0.223%
256	14.532	14.511	14.538	HH	11087	180848	7.78%	0.225%
257	14.584	14.538	14.603	HH	15336	488762	21.02%	0.609%
258	14.641	14.603	14.655	HH	15532	441330	18.98%	0.550%
259	14.675	14.655	14.722	HH	18827	618313	26.59%	0.770%
260	14.726	14.722	14.730	HH	14050	63420	2.73%	0.079%
261	14.759	14.730	14.774	HH	18231	432275	18.59%	0.538%
262	14.781	14.774	14.803	HH	16940	287593	12.37%	0.358%
263	14.814	14.803	14.821	HH	15550	163817	7.04%	0.204%
264	14.858	14.821	14.879	HH	23198	665749	28.63%	0.829%
265	14.886	14.879	14.892	HH	17955	137021	5.89%	0.171%
266	14.920	14.892	14.941	HH	26539	614984	26.44%	0.766%
267	14.978	14.941	15.004	HH	24848	771762	33.18%	0.961%
268	15.043	15.004	15.061	HH	20023	643158	27.65%	0.801%
269	15.097	15.061	15.136	HH	99913	1983407	85.28%	2.470%
270	15.142	15.136	15.162	HH	19912	302665	13.01%	0.377%
271	15.186	15.162	15.204	HH	22676	529225	22.76%	0.659%
272	15.231	15.204	15.251	HH	56260	990464	42.59%	1.233%
273	15.273	15.251	15.315	HH	56181	1286243	55.31%	1.602%
274	15.322	15.315	15.358	HH	22443	558315	24.01%	0.695%
275	15.395	15.358	15.425	HH	29297	996256	42.84%	1.241%
276	15.438	15.425	15.453	HH	23540	379405	16.31%	0.472%
277	15.470	15.453	15.510	HH	24720	789299	33.94%	0.983%
278	15.534	15.510	15.559	HH	25588	722966	31.09%	0.900%
279	15.577	15.559	15.625	HH	25749	942794	40.54%	1.174%
280	15.679	15.625	15.740	HH	71984	2325721	100.00%	2.896%
281	15.747	15.740	15.762	HH	23223	303107	13.03%	0.377%
282	15.822	15.762	15.847	HH	26873	1255842	54.00%	1.564%
283	15.866	15.847	15.883	HH	26330	544936	23.43%	0.679%
284	15.907	15.883	15.927	HH	34889	782148	33.63%	0.974%
285	15.945	15.927	15.969	HH	28915	652557	28.06%	0.813%
286	15.989	15.969	16.005	HH	26285	560026	24.08%	0.697%
287	16.011	16.005	16.014	HH	25021	130279	5.60%	0.162%
288	16.069	16.014	16.103	HH	31297	1489110	64.03%	1.854%
289	16.146	16.103	16.174	HH	28945	1152888	49.57%	1.436%
290	16.198	16.174	16.215	HH	29727	711220	30.58%	0.886%
291	16.241	16.215	16.248	HH	30025	581367	25.00%	0.724%
292	16.263	16.248	16.283	HH	30644	616021	26.49%	0.767%
293	16.325	16.283	16.364	HH	33737	1508140	64.85%	1.878%
294	16.386	16.364	16.415	HH	31842	964223	41.46%	1.201%
295	16.439	16.415	16.482	HH	32702	1288900	55.42%	1.605%
296	16.517	16.482	16.534	HH	35026	1048127	45.07%	1.305%
297	16.548	16.534	16.560	HH	33983	505591	21.74%	0.630%
298	16.577	16.560	16.592	HH	34628	654703	28.15%	0.815%
299	16.624	16.592	16.655	HH	41339	1425846	61.31%	1.775%

						rters		
300	16.696	16.655	16.745	HH	57114	2308823	99.27%	2.875%
301	16.795	16.745	16.812	HH	72853	2034524	87.48%	2.533%
302	16.820	16.812	16.844	HH	53739	909278	39.10%	1.132%
303	16.886	16.844	16.901	HH	43578	1419744	61.05%	1.768%
304	16.923	16.901	16.948	HH	49720	1289148	55.43%	1.605%
305	16.968	16.948	16.977	HH	45451	779796	33.53%	0.971%
306	16.982	16.977	16.994	HH	45128	439554	18.90%	0.547%
307	17.011	16.994	17.034	HH	45458	1075962	46.26%	1.340%
308	17.078	17.034	17.085	HH	47124	1428392	61.42%	1.779%
309	17.116	17.085	17.144	HH	67375	1938713	83.36%	2.414%
310	17.172	17.144	17.212	HH	77205	2267091	97.48%	2.823%
311	17.242	17.212	17.249	HH	47878	1043840	44.88%	1.300%
312	17.276	17.249	17.302	HH	57596	1648923	70.90%	2.053%
313	17.327	17.302	17.367	HH	56259	2053531	88.30%	2.557%
314	17.393	17.367	17.401	HH	53139	1058323	45.51%	1.318%
315	17.422	17.401	17.430	HH	55067	931126	40.04%	1.159%
316	17.436	17.430	17.446	HH	54298	530422	22.81%	0.660%
317	17.454	17.446	17.466	HH	53425	647070	27.82%	0.806%
318	17.483	17.466	17.490	HH	53907	773825	33.27%	0.964%
						Sum of corrected areas:	80306838	

FF061325.M Thu Jul 03 06:43:05 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67	SDG No.:	Q2458
Lab Sample ID:	Q2458-04	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.7
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
FF016080.D	1	07/02/25 09:17	07/02/25 21:35	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	8110		188	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.5		37 - 130	52%	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\FF070225\
Data File : FF016080.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 21:35
Operator : YP\AJ
Sample : Q2458-04
Misc :
ALS Vial : 84 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-67

Integration File: autoint1.e
Quant Time: Jul 03 03:23:21 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...	15.097	1265543	10.481 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

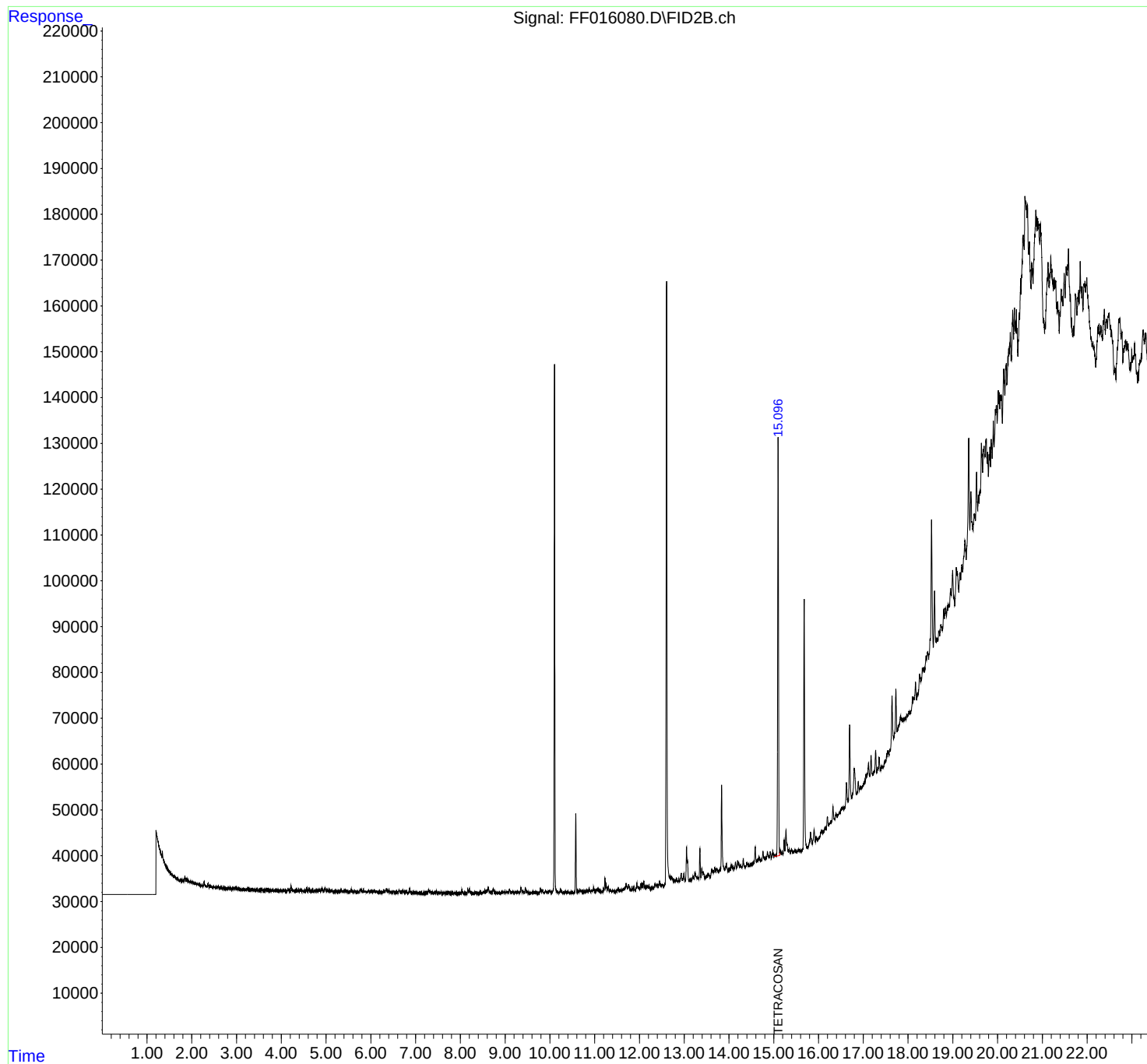
(m)=manual int.

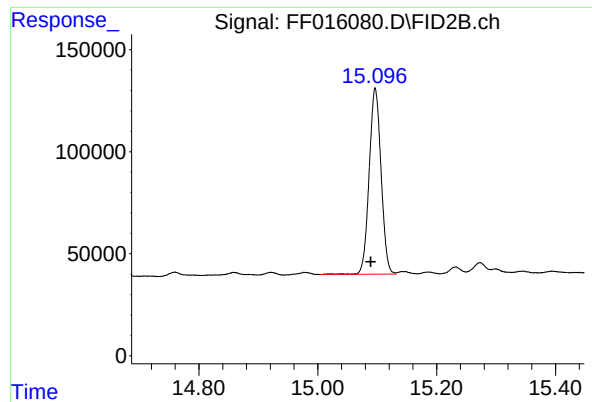
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016080.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 21:35
Operator : YP\AJ
Sample : Q2458-04
Misc :
ALS Vial : 84 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-67

Integration File: autoint1.e
Quant Time: Jul 03 03:23:21 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.: 15.097 min
Delta R.T.: 0.007 min
Response: 1265543
Conc: 10.48 ug/ml

Instrument :
FID_F
ClientSampleId :
TP-67

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\

Data File : FF016080.D

Signal(s) : FID2B.ch

Acq On : 02 Jul 2025 21:35

Sample : Q2458-04

Misc :

ALS Vial : 84 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	4.567	4.531	4.589	HH	1242	32818	1.72%	0.107%
2	4.594	4.589	4.604	HH	828	7204	0.38%	0.023%
3	4.619	4.604	4.639	HH	1124	19590	1.03%	0.064%
4	4.641	4.639	4.649	HH	791	4138	0.22%	0.013%
5	4.654	4.649	4.672	HH	798	10164	0.53%	0.033%
6	4.695	4.672	4.720	HH	934	22085	1.16%	0.072%
7	4.727	4.720	4.731	HH	737	4415	0.23%	0.014%
8	4.745	4.731	4.770	HH	875	18265	0.96%	0.059%
9	4.796	4.770	4.819	HH	995	24381	1.28%	0.079%
10	4.841	4.819	4.863	HH	959	23222	1.22%	0.076%
11	4.868	4.863	4.883	HH	887	10169	0.53%	0.033%
12	4.904	4.883	4.927	HH	1419	26899	1.41%	0.088%
13	4.934	4.927	4.940	HH	957	7127	0.37%	0.023%
14	4.981	4.940	5.005	HH	1382	39580	2.08%	0.129%
15	5.023	5.005	5.035	HH	873	13932	0.73%	0.045%
16	5.062	5.037	5.168	M	95	237	0.01%	0.001%
17	5.202	5.184	5.222	HH	703	14275	0.75%	0.046%
18	5.236	5.222	5.257	HH	767	13064	0.69%	0.043%
19	5.281	5.257	5.284	HH	676	9525	0.50%	0.031%
20	5.300	5.284	5.317	HH	813	14022	0.74%	0.046%
21	5.332	5.317	5.356	HH	1055	18733	0.98%	0.061%
22	5.373	5.356	5.388	HH	881	14285	0.75%	0.046%
23	5.443	5.416	5.479	HH	879	26792	1.41%	0.087%

24	5.505	5.479	5.522	HH	606	13671	0.72%	0.044%
25	5.537	5.522	5.543	HH	675	7478	0.39%	0.024%
26	5.561	5.543	5.591	HH	1225	22581	1.19%	0.073%
27	5.594	5.591	5.616	HH	649	9023	0.47%	0.029%
28	5.637	5.616	5.653	HH	780	13549	0.71%	0.044%
29	5.664	5.653	5.686	HH	647	11318	0.59%	0.037%
30	5.690	5.686	5.719	HH	591	10639	0.56%	0.035%
31	5.731	5.719	5.741	HH	581	6524	0.34%	0.021%
32	5.760	5.741	5.779	HH	1199	19020	1.00%	0.062%
33	5.791	5.779	5.817	HH	1046	18373	0.97%	0.060%
34	5.833	5.817	5.855	HH	1225	19181	1.01%	0.062%
35	5.859	5.855	5.904	HH	672	16808	0.88%	0.055%
36	5.908	5.904	5.918	HH	571	4334	0.23%	0.014%
37	5.991	5.979	6.008	HH	712	10669	0.56%	0.035%
38	6.025	6.008	6.047	HH	909	16459	0.86%	0.054%
39	6.294	6.271	6.314	HH	997	17043	0.90%	0.055%
40	6.348	6.314	6.386	HH	1283	35393	1.86%	0.115%
41	6.402	6.386	6.423	HH	1029	16036	0.84%	0.052%
42	6.438	6.423	6.458	HH	646	10407	0.55%	0.034%
43	6.463	6.458	6.467	HH	445	2219	0.12%	0.007%
44	6.481	6.467	6.492	HH	511	6899	0.36%	0.022%
45	6.508	6.492	6.539	HH	717	15488	0.81%	0.050%
46	6.562	6.556	6.566	HH	426	2472	0.13%	0.008%
47	6.585	6.566	6.601	HH	533	9465	0.50%	0.031%
48	6.672	6.662	6.678	HH	501	4317	0.23%	0.014%
49	6.682	6.678	6.694	HH	562	4925	0.26%	0.016%
50	6.715	6.694	6.767	HH	860	25172	1.32%	0.082%
51	6.793	6.767	6.829	HH	708	17645	0.93%	0.057%
52	6.867	6.844	6.904	HH	1255	21917	1.15%	0.071%
53	6.921	6.904	6.934	HH	464	7036	0.37%	0.023%
54	6.947	6.934	6.965	HH	565	8149	0.43%	0.027%
55	6.989	6.965	6.994	HH	457	5784	0.30%	0.019%
56	7.363	7.349	7.396	HH	485	10168	0.53%	0.033%
57	7.461	7.447	7.499	HH	820	15160	0.80%	0.049%
58	7.520	7.499	7.549	HH	407	8629	0.45%	0.028%
59	7.571	7.549	7.596	HH	474	9572	0.50%	0.031%
60	7.609	7.596	7.619	HH	372	3963	0.21%	0.013%
61	7.626	7.619	7.652	HH	359	5820	0.31%	0.019%
62	7.656	7.652	7.662	HH	281	1388	0.07%	0.005%

63	7.696	7.662	7.707	HH	397	7226	0.38%	0.024%
64	7.744	7.707	7.764	HH	534	11883	0.62%	0.039%
65	7.768	7.764	7.783	HH	282	2486	0.13%	0.008%
66	7.800	7.783	7.805	HH	396	3655	0.19%	0.012%
67	7.830	7.827	7.840	HH	318	2018	0.11%	0.007%
68	7.912	7.892	7.925	HH	325	5277	0.28%	0.017%
69	7.930	7.925	7.937	HH	249	1550	0.08%	0.005%
70	7.964	7.937	7.973	HH	316	5136	0.27%	0.017%
71	7.986	7.973	8.004	HH	289	4053	0.21%	0.013%
72	8.033	8.004	8.073	HH	1169	19232	1.01%	0.063%
73	8.088	8.073	8.113	HH	334	6009	0.32%	0.020%
74	8.119	8.113	8.139	HH	306	3541	0.19%	0.012%
75	8.166	8.139	8.184	HH	1007	15913	0.84%	0.052%
76	8.201	8.184	8.222	HH	1359	18342	0.96%	0.060%
77	8.229	8.222	8.256	HH	479	7663	0.40%	0.025%
78	8.259	8.256	8.292	HH	285	5235	0.27%	0.017%
79	8.329	8.292	8.339	HH	379	7943	0.42%	0.026%
80	8.343	8.339	8.347	HH	373	1713	0.09%	0.006%
81	8.354	8.347	8.372	HH	364	4614	0.24%	0.015%
82	8.377	8.372	8.391	HH	396	3586	0.19%	0.012%
83	8.397	8.391	8.410	HH	328	3210	0.17%	0.010%
84	8.448	8.410	8.469	HH	569	14072	0.74%	0.046%
85	8.474	8.469	8.482	HH	359	2403	0.13%	0.008%
86	8.511	8.492	8.531	HH	553	10432	0.55%	0.034%
87	8.547	8.531	8.565	HH	804	12579	0.66%	0.041%
88	8.677	8.669	8.682	HH	497	3632	0.19%	0.012%
89	8.686	8.682	8.691	HH	506	2537	0.13%	0.008%
90	8.701	8.691	8.706	HH	510	4021	0.21%	0.013%
91	8.785	8.779	8.808	HH	512	7363	0.39%	0.024%
92	8.812	8.808	8.834	HH	374	4941	0.26%	0.016%
93	8.855	8.834	8.879	HH	494	8613	0.45%	0.028%
94	8.881	8.879	8.887	HH	252	1197	0.06%	0.004%
95	8.927	8.912	8.941	HH	618	8458	0.44%	0.028%
96	8.946	8.941	8.950	HH	479	2396	0.13%	0.008%
97	8.954	8.950	8.972	HH	538	5685	0.30%	0.018%
98	8.995	8.972	9.004	HH	561	8919	0.47%	0.029%
99	9.016	9.004	9.020	HH	484	4252	0.22%	0.014%
100	9.030	9.020	9.056	HH	538	10129	0.53%	0.033%
101	9.097	9.056	9.132	HH	1222	30186	1.59%	0.098%

102	9.144	9.132	9.148	HH	550	4605	0.24%	0.015%
103	9.166	9.148	9.188	HH	674	12114	0.64%	0.039%
104	9.194	9.188	9.202	HH	407	3098	0.16%	0.010%
105	9.249	9.202	9.269	HH	592	18586	0.98%	0.060%
106	9.288	9.269	9.319	HH	650	15198	0.80%	0.049%
107	9.352	9.319	9.384	HH	1521	32398	1.70%	0.105%
108	9.452	9.430	9.476	HH	1420	23067	1.21%	0.075%
109	9.541	9.531	9.569	HH	409	7341	0.39%	0.024%
110	9.575	9.569	9.580	HH	396	2171	0.11%	0.007%
111	9.602	9.580	9.619	HH	490	8551	0.45%	0.028%
112	9.638	9.619	9.673	HH	688	15255	0.80%	0.050%
113	9.683	9.673	9.704	HH	463	7537	0.40%	0.025%
114	9.709	9.704	9.713	HH	352	1673	0.09%	0.005%
115	9.736	9.713	9.759	HH	484	9931	0.52%	0.032%
116	9.763	9.759	9.768	HH	362	1505	0.08%	0.005%
117	9.784	9.768	9.808	HH	1353	20741	1.09%	0.067%
118	9.831	9.808	9.866	HH	1011	24090	1.27%	0.078%
119	9.900	9.866	9.938	HH	743	22205	1.17%	0.072%
120	9.967	9.938	9.974	HH	629	10039	0.53%	0.033%
121	9.989	9.974	10.024	HH	930	19869	1.04%	0.065%
122	10.029	10.024	10.042	HH	439	3793	0.20%	0.012%
123	10.102	10.042	10.159	HH	115660	1167080	61.30%	3.797%
124	10.170	10.159	10.187	HH	705	9586	0.50%	0.031%
125	10.194	10.187	10.216	HH	491	7356	0.39%	0.024%
126	10.234	10.216	10.289	HH	1233	28664	1.51%	0.093%
127	10.309	10.289	10.324	HH	508	8166	0.43%	0.027%
128	10.391	10.373	10.428	HH	571	14412	0.76%	0.047%
129	10.431	10.428	10.440	HH	367	2405	0.13%	0.008%
130	10.469	10.440	10.493	HH	475	12666	0.67%	0.041%
131	10.498	10.493	10.502	HH	442	2059	0.11%	0.007%
132	10.508	10.502	10.526	HH	489	5827	0.31%	0.019%
133	10.547	10.526	10.550	HH	466	5680	0.30%	0.018%
134	10.577	10.550	10.607	HH	17628	197064	10.35%	0.641%
135	10.622	10.607	10.647	HH	870	15838	0.83%	0.052%
136	10.676	10.647	10.696	HH	1024	23911	1.26%	0.078%
137	10.709	10.696	10.730	HH	759	13077	0.69%	0.043%
138	10.749	10.730	10.764	HH	852	12901	0.68%	0.042%
139	10.792	10.764	10.809	HH	688	16482	0.87%	0.054%
140	10.877	10.852	10.916	HH	1125	31248	1.64%	0.102%

141	10.928	10.916	10.942	HH	981	13973	0.73%	0.045%
142	11.038	11.011	11.060	HH	1121	26741	1.40%	0.087%
143	11.075	11.060	11.148	HH	1190	43654	2.29%	0.142%
144	11.156	11.148	11.162	HH	611	4966	0.26%	0.016%
145	11.168	11.162	11.179	HH	668	6232	0.33%	0.020%
146	11.201	11.179	11.212	HH	1285	19224	1.01%	0.063%
147	11.254	11.243	11.287	HH	2439	42755	2.25%	0.139%
148	11.303	11.287	11.331	HH	1708	31660	1.66%	0.103%
149	11.404	11.387	11.469	HH	959	35494	1.86%	0.115%
150	11.516	11.469	11.530	HH	1199	32426	1.70%	0.105%
151	11.540	11.530	11.564	HH	1052	17912	0.94%	0.058%
152	11.594	11.564	11.603	HH	986	21011	1.10%	0.068%
153	11.621	11.603	11.631	HH	1101	17138	0.90%	0.056%
154	11.651	11.631	11.662	HH	1307	20751	1.09%	0.068%
155	11.681	11.662	11.688	HH	1674	21030	1.10%	0.068%
156	11.701	11.688	11.735	HH	2487	51836	2.72%	0.169%
157	11.758	11.735	11.812	HH	2107	64249	3.37%	0.209%
158	11.838	11.812	11.854	HH	1306	28044	1.47%	0.091%
159	11.942	11.901	12.013	HH	2577	99783	5.24%	0.325%
160	12.034	12.013	12.050	HH	2377	39088	2.05%	0.127%
161	12.066	12.050	12.082	HH	2553	38422	2.02%	0.125%
162	12.099	12.082	12.122	HH	2852	51031	2.68%	0.166%
163	12.133	12.122	12.141	HH	1526	16400	0.86%	0.053%
164	12.154	12.141	12.167	HH	1708	25896	1.36%	0.084%
165	12.183	12.167	12.197	HH	1932	29917	1.57%	0.097%
166	12.214	12.197	12.246	HH	1953	44623	2.34%	0.145%
167	12.288	12.246	12.309	HH	1514	50803	2.67%	0.165%
168	12.389	12.366	12.415	HH	2278	57608	3.03%	0.187%
169	12.509	12.489	12.529	HH	2266	49207	2.58%	0.160%
170	12.539	12.529	12.547	HH	1944	20272	1.06%	0.066%
171	12.607	12.547	12.672	HH	133693	1903767	100.00%	6.194%
172	12.682	12.672	12.698	HH	3969	57867	3.04%	0.188%
173	12.714	12.698	12.757	HH	3908	121438	6.38%	0.395%
174	12.763	12.757	12.767	HH	2997	17724	0.93%	0.058%
175	12.782	12.767	12.791	HH	3142	42422	2.23%	0.138%
176	12.798	12.791	12.811	HH	3087	35687	1.87%	0.116%
177	12.879	12.861	12.896	HH	3508	65343	3.43%	0.213%
178	12.933	12.896	12.956	HH	4605	131422	6.90%	0.428%
179	13.053	13.024	13.067	HH	10346	169487	8.90%	0.551%
180	13.118	13.106	13.139	HH	3242	63409	3.33%	0.206%

181	13.351	13.323	13.372	HH	10027	175043	9.19%	0.569%
182	13.392	13.372	13.417	HH	5686	130074	6.83%	0.423%
183	13.429	13.417	13.464	HH	4679	119097	6.26%	0.387%
184	13.485	13.464	13.507	HH	3990	98932	5.20%	0.322%
185	13.547	13.507	13.577	HH	4364	172179	9.04%	0.560%
186	13.615	13.577	13.636	HH	5352	167403	8.79%	0.545%
187	13.642	13.636	13.659	HH	5156	68342	3.59%	0.222%
188	13.727	13.705	13.763	HH	5725	184612	9.70%	0.601%
189	13.809	13.763	13.814	HH	5562	161365	8.48%	0.525%
190	13.835	13.814	13.907	HH	23809	533827	28.04%	1.737%
191	13.942	13.907	13.977	HH	6815	249316	13.10%	0.811%
192	14.013	13.977	14.027	HH	5595	159224	8.36%	0.518%
193	14.052	14.027	14.075	HH	6432	173069	9.09%	0.563%
194	14.088	14.075	14.103	HH	6102	97860	5.14%	0.318%
195	14.110	14.103	14.117	HH	5684	47820	2.51%	0.156%
196	14.144	14.117	14.171	HH	7011	199416	10.47%	0.649%
197	14.194	14.171	14.209	HH	7381	154007	8.09%	0.501%
198	14.260	14.236	14.284	HH	6401	175092	9.20%	0.570%
199	14.320	14.284	14.368	HH	7476	323715	17.00%	1.053%
200	14.396	14.368	14.414	HH	7024	181349	9.53%	0.590%
201	14.419	14.414	14.434	HH	6552	77574	4.07%	0.252%
202	14.440	14.434	14.464	HH	6503	114418	6.01%	0.372%
203	14.479	14.464	14.487	HH	6563	90366	4.75%	0.294%
204	14.558	14.517	14.562	HH	7088	187390	9.84%	0.610%
205	14.585	14.562	14.609	HH	10424	237649	12.48%	0.773%
206	14.676	14.649	14.701	HH	8084	239423	12.58%	0.779%
207	14.709	14.701	14.732	HH	7575	141496	7.43%	0.460%
208	14.760	14.732	14.808	HH	9420	374552	19.67%	1.219%
209	14.828	14.808	14.836	HH	8114	130852	6.87%	0.426%
210	14.859	14.836	14.899	HH	9327	321008	16.86%	1.044%
211	14.921	14.899	14.941	HH	9355	218869	11.50%	0.712%
212	14.978	14.941	15.005	HH	9351	331080	17.39%	1.077%
213	15.022	15.005	15.030	HH	8646	128990	6.78%	0.420%
214	15.039	15.030	15.046	HH	8564	78859	4.14%	0.257%
215	15.050	15.046	15.056	HH	8532	50866	2.67%	0.165%
216	15.097	15.056	15.131	HH	99628	1642941	86.30%	5.345%
217	15.147	15.131	15.169	HH	9758	210729	11.07%	0.686%
218	15.186	15.169	15.206	HH	9444	200808	10.55%	0.653%
219	15.232	15.206	15.251	HH	11966	275755	14.48%	0.897%

220	15.273	15.251	15.292	HH	14077	292644	15.37%	0.952%
221	15.299	15.292	15.327	HH	10980	214755	11.28%	0.699%
222	15.394	15.371	15.424	HH	9885	300624	15.79%	0.978%
223	15.441	15.437	15.449	HH	9313	63470	3.33%	0.206%
224	15.473	15.449	15.482	HH	9672	189800	9.97%	0.617%
225	15.490	15.482	15.516	HH	9636	187712	9.86%	0.611%
226	15.574	15.516	15.622	HH	9737	605826	31.82%	1.971%
227	15.628	15.622	15.631	HH	9581	54550	2.87%	0.177%
228	15.680	15.631	15.758	HH	64088	1518866	79.78%	4.941%
229	15.822	15.758	15.859	HH	13595	701986	36.87%	2.284%
230	15.900	15.859	15.927	HH	14145	512345	26.91%	1.667%
231	16.004	15.982	16.009	HH	12245	194501	10.22%	0.633%
232	16.070	16.009	16.111	HH	13895	809928	42.54%	2.635%
233	16.239	16.221	16.246	HH	15513	229983	12.08%	0.748%
234	16.324	16.246	16.355	HH	19222	1084310	56.96%	3.528%
235	16.362	16.355	16.364	HH	16537	89565	4.70%	0.291%
236	16.388	16.364	16.411	HH	17533	480342	25.23%	1.563%
237	16.461	16.411	16.471	HH	17911	633575	33.28%	2.061%
238	16.542	16.530	16.562	HH	18857	369996	19.43%	1.204%
239	16.575	16.562	16.582	HH	18972	217052	11.40%	0.706%
240	16.695	16.656	16.739	HH	36990	1270966	66.76%	4.135%
241	16.802	16.739	16.844	HH	27526	1503854	78.99%	4.893%
242	16.888	16.844	16.909	HH	24632	896260	47.08%	2.916%
243	16.927	16.909	16.941	HH	23364	441617	23.20%	1.437%
244	17.060	16.965	17.074	HH	26253	1609828	84.56%	5.237%
245	17.115	17.074	17.139	HH	28728	1047410	55.02%	3.408%

Sum of corrected areas: 30737747

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-66	SDG No.:	Q2458
Lab Sample ID:	Q2458-05	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	88.3
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
FF016092.D	5	07/02/25 09:17	07/03/25 10:47	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	43300		954	9410	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	3.08		37 - 130	77%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\
Data File : FF016092.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 10:47
Operator : YP\AJ
Sample : Q2458-05 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-66

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/07/2025
Supervised By :mohammad ahmed 07/08/2025

Integration File: autoint1.e
Quant Time: Jul 04 03:47:31 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	371928	3.080 ug/mlm

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\
Data File : FF016092.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 10:47
Operator : YP\AJ
Sample : Q2458-05 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

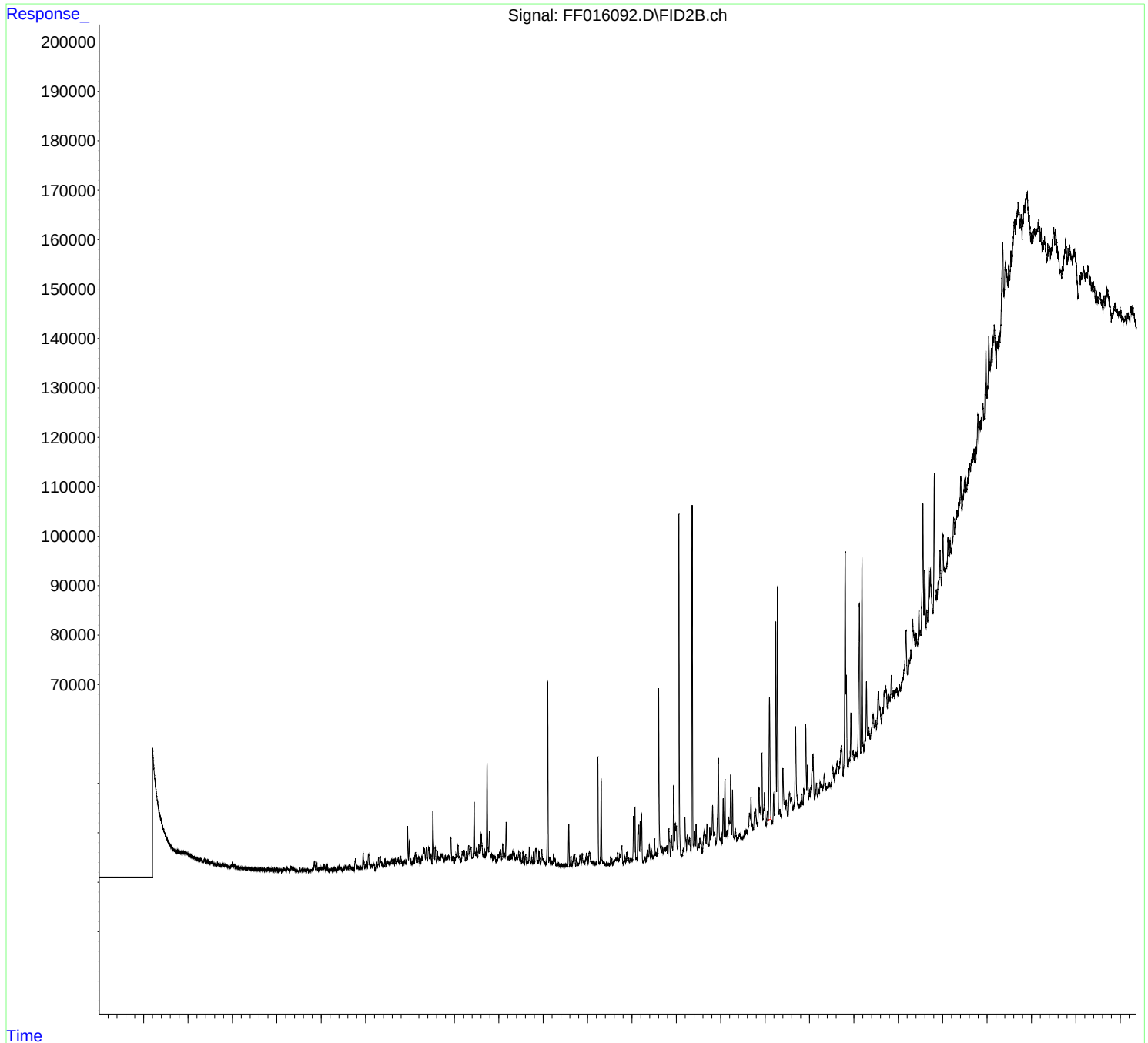
Instrument :
FID_F
ClientSampleId :
TP-66

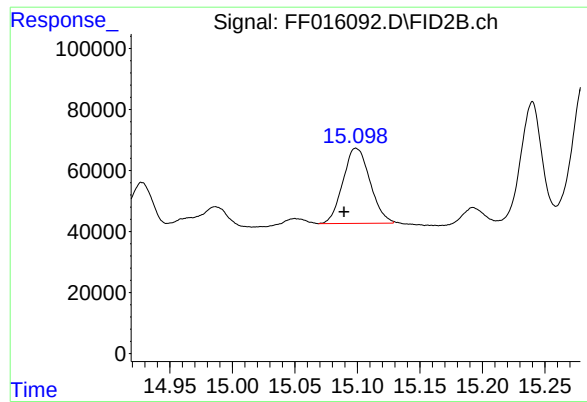
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/07/2025
Supervised By :mohammad ahmed 07/08/2025

Integration File: autoint1.e
Quant Time: Jul 04 03:47:31 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: 371928
Conc: 3.08 ug/ml

Instrument :

FID_F

ClientSampleId :

TP-66

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/07/2025

Supervised By :mohammad ahmed 07/08/2025

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\
 Data File : FF016092.D
 Signal(s) : FID2B.ch
 Acq On : 03 Jul 2025 10:47
 Sample : Q2458-05 5X
 Misc :
 ALS Vial : 22 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	5.772	5.740	5.796	PH	1989	28744	2.46%	0.091%
2	5.806	5.796	5.821	HH	403	4110	0.35%	0.013%
3	5.836	5.821	5.866	PH	345	1882	0.16%	0.006%
4	5.887	5.866	5.904	PH	228	287	0.02%	0.001%
5	5.908	5.904	5.922	PH	104	496	0.04%	0.002%
6	5.944	5.922	5.977	PH	3045	43558	3.73%	0.139%
7	5.996	5.977	6.011	HH	746	8111	0.70%	0.026%
8	6.027	6.011	6.041	HH	1212	13334	1.14%	0.042%
9	6.066	6.041	6.110	HH	2794	51966	4.45%	0.165%
10	6.128	6.110	6.140	HH	751	9232	0.79%	0.029%
11	6.146	6.140	6.161	HH	558	4710	0.40%	0.015%
12	6.176	6.161	6.183	HH	739	6771	0.58%	0.022%
13	6.191	6.183	6.216	HH	838	6471	0.55%	0.021%
14	6.240	6.216	6.259	PH	1111	10475	0.90%	0.033%
15	6.292	6.259	6.310	HH	2178	30528	2.62%	0.097%
16	6.330	6.310	6.372	HH	2416	46672	4.00%	0.148%
17	6.389	6.372	6.409	HH	1312	18183	1.56%	0.058%
18	6.437	6.409	6.460	HH	1936	29642	2.54%	0.094%
19	6.480	6.460	6.493	HH	1478	21438	1.84%	0.068%
20	6.499	6.493	6.509	HH	1281	10874	0.93%	0.035%
21	6.525	6.509	6.545	HH	1188	21677	1.86%	0.069%
22	6.586	6.545	6.605	HH	1858	43581	3.73%	0.139%
23	6.625	6.605	6.645	HH	1609	31146	2.67%	0.099%

Instrument :
 FID_F
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 TP-66

Manual IntegrationsAPPROVED

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24	6.665	6.645	6.684	HH	1925	31053	2.66%	0.099%
25	6.711	6.684	6.727	HH	1766	38430	3.29%	0.122%
26	6.738	6.727	6.774	HH	2002	40095	3.44%	0.128%
27	6.792	6.774	6.809	HH	2376	34094	2.92%	0.108%
28	6.811	6.809	6.841	HH	1445	20145	1.73%	0.064%
29	6.868	6.841	6.872	HH	1277	18745	1.61%	0.060%
30	6.880	6.872	6.900	HH	1550	21477	1.84%	0.068%
31	6.920	6.900	6.929	HH	1464	22249	1.91%	0.071%
32	6.946	6.929	6.966	HH	8531	102009	8.74%	0.325%
33	6.984	6.966	7.009	HH	5598	78567	6.73%	0.250%
34	7.019	7.009	7.033	HH	1844	20109	1.72%	0.064%
35	7.078	7.033	7.094	HH	1936	48547	4.16%	0.154%
36	7.122	7.094	7.148	HH	3242	69639	5.97%	0.222%
37	7.160	7.148	7.175	HH	2137	27230	2.33%	0.087%
38	7.197	7.175	7.238	HH	2265	59794	5.12%	0.190%
39	7.267	7.238	7.282	HH	2369	49012	4.20%	0.156%
40	7.302	7.282	7.317	HH	4145	66575	5.71%	0.212%
41	7.328	7.317	7.349	HH	3829	56910	4.88%	0.181%
42	7.368	7.349	7.394	HH	4249	75178	6.44%	0.239%
43	7.423	7.394	7.448	HH	4165	98770	8.46%	0.314%
44	7.470	7.448	7.495	HH	2820	56557	4.85%	0.180%
45	7.516	7.495	7.553	HH	11614	188142	16.12%	0.599%
46	7.569	7.553	7.593	HH	4332	67836	5.81%	0.216%
47	7.619	7.593	7.635	HH	3302	58593	5.02%	0.186%
48	7.643	7.635	7.655	HH	2269	25287	2.17%	0.080%
49	7.663	7.655	7.680	HH	2033	27077	2.32%	0.086%
50	7.705	7.680	7.730	HH	2744	69003	5.91%	0.220%
51	7.744	7.730	7.773	HH	3094	58742	5.03%	0.187%
52	7.794	7.773	7.819	HH	2572	58508	5.01%	0.186%
53	7.833	7.819	7.851	HH	2444	41817	3.58%	0.133%
54	7.867	7.851	7.897	HH	2541	62595	5.36%	0.199%
55	7.921	7.897	7.949	HH	6174	111787	9.58%	0.356%
56	7.967	7.949	7.990	HH	2377	44950	3.85%	0.143%
57	8.008	7.990	8.018	HH	1856	25640	2.20%	0.082%
58	8.036	8.018	8.052	HH	2902	47068	4.03%	0.150%
59	8.082	8.052	8.104	HH	4629	94588	8.11%	0.301%
60	8.112	8.104	8.148	HH	2346	50788	4.35%	0.162%
61	8.178	8.148	8.191	HH	3377	63814	5.47%	0.203%
62	8.204	8.191	8.218	HH	3693	52949	4.54%	0.168%

Instrument :
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TP-66

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63	8.229	8.218	8.249	HH	3303	47182	4.04%	0.150%
64	8.272	8.249	8.292	HH	3344	61584	5.28%	0.196%
65	8.320	8.292	8.342	HH	4550	100619	8.62%	0.320%
66	8.370	8.342	8.403	HH	4235	117703	10.09%	0.374%
67	8.445	8.403	8.484	HH	13453	244308	20.94%	0.777%
68	8.500	8.484	8.520	HH	3999	67658	5.80%	0.215%
69	8.549	8.520	8.562	HH	4761	87483	7.50%	0.278%
70	8.577	8.562	8.588	HH	4594	62718	5.37%	0.200%
71	8.605	8.588	8.653	HH	6986	167841	14.38%	0.534%
72	8.674	8.653	8.691	HH	3827	66872	5.73%	0.213%
73	8.736	8.691	8.771	HH	21270	350478	30.04%	1.115%
74	8.790	8.771	8.814	HH	7413	119462	10.24%	0.380%
75	8.821	8.814	8.834	HH	2631	30255	2.59%	0.096%
76	8.846	8.834	8.864	HH	2728	41495	3.56%	0.132%
77	8.877	8.864	8.890	HH	2581	34617	2.97%	0.110%
78	8.911	8.890	8.941	HH	2456	63351	5.43%	0.202%
79	8.957	8.941	8.967	HH	1718	24328	2.08%	0.077%
80	8.987	8.967	8.999	HH	2835	41894	3.59%	0.133%
81	9.036	8.999	9.064	HH	3777	111451	9.55%	0.355%
82	9.088	9.064	9.109	HH	4747	86253	7.39%	0.274%
83	9.124	9.109	9.138	HH	3029	46621	4.00%	0.148%
84	9.167	9.138	9.191	HH	9311	147902	12.67%	0.471%
85	9.219	9.191	9.232	HH	2457	50241	4.31%	0.160%
86	9.249	9.232	9.262	HH	2430	37109	3.18%	0.118%
87	9.277	9.262	9.297	HH	2882	48452	4.15%	0.154%
88	9.314	9.297	9.327	HH	3568	49976	4.28%	0.159%
89	9.342	9.327	9.370	HH	3050	69787	5.98%	0.222%
90	9.398	9.370	9.414	HH	2384	54173	4.64%	0.172%
91	9.424	9.414	9.430	HH	2212	20786	1.78%	0.066%
92	9.448	9.430	9.469	HH	3385	59077	5.06%	0.188%
93	9.487	9.469	9.521	HH	3189	62585	5.36%	0.199%
94	9.544	9.521	9.570	HH	3233	55710	4.77%	0.177%
95	9.602	9.570	9.621	HH	2761	54079	4.63%	0.172%
96	9.636	9.621	9.654	HH	2336	32080	2.75%	0.102%
97	9.688	9.654	9.710	HH	4255	70706	6.06%	0.225%
98	9.721	9.710	9.726	HH	1295	11511	0.99%	0.037%
99	9.740	9.726	9.763	HH	2193	34792	2.98%	0.111%
100	9.784	9.763	9.805	HH	3252	48969	4.20%	0.156%
101	9.827	9.805	9.836	HH	3876	51672	4.43%	0.164%

Instrument :

FID_F

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TP-66

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/07/2025

Supervised By :mohammad ahmed 07/08/2025

102	9.841	9.836	9.881	HH	3836	58515	5.01%	0.186%
103	9.905	9.881	9.937	HH	3447	66509	5.70%	0.212%
104	9.968	9.937	10.000	HH	3904	80995	6.94%	0.258%
105	10.004	10.000	10.024	HH	1755	22348	1.92%	0.071%
106	10.034	10.024	10.054	HH	1486	20681	1.77%	0.066%
107	10.102	10.054	10.125	HH	37714	428008	36.68%	1.362%
108	10.145	10.125	10.173	HH	2138	45306	3.88%	0.144%
109	10.197	10.173	10.216	HH	1245	29347	2.51%	0.093%
110	10.236	10.216	10.256	HH	2640	47183	4.04%	0.150%
111	10.266	10.256	10.298	HH	1887	30321	2.60%	0.096%
112	10.315	10.298	10.327	HH	898	14384	1.23%	0.046%
113	10.344	10.327	10.380	HH	1030	22058	1.89%	0.070%
114	10.408	10.380	10.435	HH	1001	20703	1.77%	0.066%
115	10.450	10.435	10.474	HH	836	14179	1.22%	0.045%
116	10.488	10.474	10.500	HH	582	7816	0.67%	0.025%
117	10.518	10.500	10.535	HH	806	12635	1.08%	0.040%
118	10.539	10.535	10.551	HH	515	4136	0.35%	0.013%
119	10.577	10.551	10.601	HH	8985	108614	9.31%	0.346%
120	10.624	10.601	10.648	HH	2512	39691	3.40%	0.126%
121	10.682	10.648	10.694	HH	2267	39911	3.42%	0.127%
122	10.709	10.694	10.732	HH	2890	41769	3.58%	0.133%
123	10.751	10.732	10.786	HH	1968	39417	3.38%	0.125%
124	10.828	10.786	10.857	HH	2616	62144	5.33%	0.198%
125	10.878	10.857	10.903	HH	2948	53736	4.61%	0.171%
126	10.908	10.903	10.936	HH	1503	23550	2.02%	0.075%
127	10.975	10.936	10.989	HH	2992	64593	5.54%	0.205%
128	10.995	10.989	11.013	HH	2441	27768	2.38%	0.088%
129	11.041	11.013	11.090	HH	3266	95200	8.16%	0.303%
130	11.107	11.090	11.116	HH	1373	18535	1.59%	0.059%
131	11.126	11.116	11.143	HH	1322	16787	1.44%	0.053%
132	11.172	11.143	11.184	HH	1029	20999	1.80%	0.067%
133	11.198	11.184	11.206	HH	1285	13820	1.18%	0.044%
134	11.231	11.206	11.257	HH	22549	252480	21.64%	0.803%
135	11.260	11.257	11.272	HH	1137	9950	0.85%	0.032%
136	11.307	11.272	11.353	HH	17784	243004	20.82%	0.773%
137	11.359	11.353	11.363	HH	1213	6630	0.57%	0.021%
138	11.370	11.363	11.389	HH	1278	16374	1.40%	0.052%
139	11.402	11.389	11.407	HH	937	9078	0.78%	0.029%
140	11.411	11.407	11.439	HH	924	15702	1.35%	0.050%

Instrument :

FID_F

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Manual IntegrationsAPPROVED

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141	11.443	11.439	11.469	HH	855	13442	1.15%	0.043%
142	11.484	11.469	11.501	HH	966	16477	1.41%	0.052%
143	11.521	11.501	11.533	HH	2299	31510	2.70%	0.100%
144	11.541	11.533	11.565	HH	1950	27065	2.32%	0.086%
145	11.597	11.565	11.607	HH	1552	31331	2.69%	0.100%
146	11.628	11.607	11.635	HH	1891	27450	2.35%	0.087%
147	11.648	11.635	11.664	HH	1889	31857	2.73%	0.101%
148	11.680	11.664	11.700	HH	3096	47851	4.10%	0.152%
149	11.726	11.700	11.740	HH	2752	50198	4.30%	0.160%
150	11.768	11.740	11.805	HH	4568	109140	9.35%	0.347%
151	11.833	11.805	11.855	HH	2381	49814	4.27%	0.158%
152	11.885	11.855	11.907	HH	3225	68166	5.84%	0.217%
153	11.924	11.907	11.942	HH	2100	36835	3.16%	0.117%
154	11.966	11.942	11.974	HH	1874	30218	2.59%	0.096%
155	11.986	11.974	12.003	HH	1861	30616	2.62%	0.097%
156	12.038	12.003	12.052	HH	10597	145588	12.48%	0.463%
157	12.068	12.052	12.090	HH	12427	148182	12.70%	0.471%
158	12.099	12.090	12.114	HH	2342	28186	2.42%	0.090%
159	12.135	12.114	12.143	HH	7735	89485	7.67%	0.285%
160	12.153	12.143	12.170	HH	8746	108509	9.30%	0.345%
161	12.186	12.170	12.201	HH	9544	118762	10.18%	0.378%
162	12.217	12.201	12.246	HH	11104	152533	13.07%	0.485%
163	12.257	12.246	12.265	HH	1447	15706	1.35%	0.050%
164	12.287	12.265	12.312	HH	2334	51016	4.37%	0.162%
165	12.352	12.312	12.370	HH	3657	90067	7.72%	0.287%
166	12.394	12.370	12.413	HH	4695	83904	7.19%	0.267%
167	12.432	12.413	12.465	HH	3774	92775	7.95%	0.295%
168	12.479	12.465	12.490	HH	2297	32358	2.77%	0.103%
169	12.509	12.490	12.528	HH	5978	93054	7.97%	0.296%
170	12.540	12.528	12.556	HH	3279	48134	4.13%	0.153%
171	12.574	12.556	12.584	HH	3865	57002	4.88%	0.181%
172	12.601	12.584	12.642	HH	36383	486725	41.71%	1.548%
173	12.656	12.642	12.674	HH	4630	79032	6.77%	0.251%
174	12.689	12.674	12.704	HH	4087	63680	5.46%	0.203%
175	12.720	12.704	12.728	HH	4151	54059	4.63%	0.172%
176	12.740	12.728	12.750	HH	4017	51303	4.40%	0.163%
177	12.764	12.750	12.773	HH	4046	51660	4.43%	0.164%
178	12.785	12.773	12.811	HH	4601	86420	7.41%	0.275%
179	12.831	12.811	12.869	HH	8023	176612	15.14%	0.562%
180	12.890	12.869	12.919	HH	6639	135125	11.58%	0.430%

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181	12.941	12.919	12.959	HH	16737	243056	20.83%	0.773%
182	12.978	12.959	12.990	HH	9145	145734	12.49%	0.464%
183	13.001	12.990	13.023	HH	8537	130923	11.22%	0.417%
184	13.057	13.023	13.104	HH	71654	949479	81.37%	3.021%
185	13.118	13.104	13.136	HH	2898	52676	4.51%	0.168%
186	13.157	13.136	13.170	HH	4013	70977	6.08%	0.226%
187	13.194	13.170	13.230	HH	10345	227149	19.47%	0.723%
188	13.248	13.230	13.285	HH	6746	182771	15.66%	0.581%
189	13.298	13.285	13.331	HH	6134	136393	11.69%	0.434%
190	13.357	13.331	13.382	HH	73476	883695	75.73%	2.811%
191	13.414	13.382	13.430	HH	7566	161816	13.87%	0.515%
192	13.445	13.430	13.478	HH	8993	169576	14.53%	0.539%
193	13.496	13.478	13.513	HH	4978	94178	8.07%	0.300%
194	13.529	13.513	13.543	HH	6049	94182	8.07%	0.300%
195	13.554	13.543	13.582	HH	5515	108594	9.31%	0.345%
196	13.625	13.582	13.639	HH	7529	193919	16.62%	0.617%
197	13.644	13.639	13.669	HH	6877	111279	9.54%	0.354%
198	13.690	13.669	13.719	HH	8986	194689	16.68%	0.619%
199	13.726	13.719	13.735	HH	4770	44310	3.80%	0.141%
200	13.754	13.735	13.769	HH	8194	129714	11.12%	0.413%
201	13.786	13.769	13.795	HH	7550	106358	9.11%	0.338%
202	13.817	13.795	13.838	HH	12695	245994	21.08%	0.783%
203	13.848	13.838	13.896	HH	7237	218208	18.70%	0.694%
204	13.947	13.896	13.987	HH	22249	569870	48.84%	1.813%
205	14.016	13.987	14.033	HH	6915	165267	14.16%	0.526%
206	14.056	14.033	14.076	HH	14118	249133	21.35%	0.793%
207	14.095	14.076	14.118	HH	18005	281714	24.14%	0.896%
208	14.144	14.118	14.161	HH	7688	177198	15.19%	0.564%
209	14.178	14.161	14.189	HH	10289	153968	13.19%	0.490%
210	14.200	14.189	14.207	HH	9554	97593	8.36%	0.310%
211	14.226	14.207	14.247	HH	18989	299808	25.69%	0.954%
212	14.266	14.247	14.303	HH	15846	314127	26.92%	0.999%
213	14.324	14.303	14.361	HH	8117	239735	20.54%	0.763%
214	14.381	14.361	14.390	HH	6152	102980	8.83%	0.328%
215	14.406	14.390	14.411	HH	6504	78037	6.69%	0.248%
216	14.428	14.411	14.448	HH	6931	144481	12.38%	0.460%
217	14.458	14.448	14.467	HH	6453	72516	6.21%	0.231%
218	14.475	14.467	14.490	HH	6369	83669	7.17%	0.266%
219	14.537	14.490	14.551	HH	7597	246842	21.15%	0.785%

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220	14.570	14.551	14.577	HH	7660	113699	9.74%	0.362%
221	14.584	14.577	14.603	HH	7763	117751	10.09%	0.375%
222	14.647	14.603	14.665	HH	11106	347518	29.78%	1.106%
223	14.682	14.665	14.701	HH	14411	253373	21.71%	0.806%
224	14.707	14.701	14.730	HH	8874	146873	12.59%	0.467%
225	14.762	14.730	14.775	HH	11249	256875	22.01%	0.817%
226	14.789	14.775	14.825	HH	11937	309077	26.49%	0.983%
227	14.865	14.825	14.881	HH	16293	407483	34.92%	1.296%
228	14.891	14.881	14.909	HH	12405	193303	16.57%	0.615%
229	14.928	14.909	14.948	HH	23221	389761	33.40%	1.240%
230	14.986	14.948	15.016	HH	15382	477496	40.92%	1.519%
231	15.050	15.016	15.069	HH	11523	316378	27.11%	1.007%
232	15.099	15.069	15.165	HH	34569	936299	80.24%	2.979%
233	15.193	15.165	15.213	HH	15120	338108	28.98%	1.076%
234	15.240	15.213	15.259	HH	49913	753492	64.57%	2.397%
235	15.281	15.259	15.316	HH	56656	913874	78.32%	2.907%
236	15.331	15.316	15.362	HH	11915	309568	26.53%	0.985%
237	15.401	15.362	15.435	HH	20218	643552	55.15%	2.047%
238	15.444	15.435	15.460	HH	13385	188398	16.15%	0.599%
239	15.478	15.460	15.513	HH	13835	393289	33.70%	1.251%
240	15.553	15.513	15.573	HH	15223	484756	41.54%	1.542%
241	15.584	15.573	15.627	HH	14215	433057	37.11%	1.378%
242	15.686	15.627	15.745	HH	28673	1166892	100.00%	3.712%
243	15.758	15.745	15.772	HH	12880	197826	16.95%	0.629%
244	15.794	15.772	15.805	HH	13120	251935	21.59%	0.802%
245	15.827	15.805	15.852	HH	15069	398949	34.19%	1.269%
246	15.873	15.852	15.885	HH	15953	285428	24.46%	0.908%
247	15.915	15.885	15.937	HH	28933	657820	56.37%	2.093%
248	15.953	15.937	15.983	HH	20921	465270	39.87%	1.480%
249	15.998	15.983	16.012	HH	15924	262726	22.52%	0.836%

Sum of corrected areas: 31432187

Instrument :

FID_F

ClientSampleId :

TP-66

Manual IntegrationsAPPROVED

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Supervised By :mohammad ahmed 07/08/2025

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-60	SDG No.:	Q2458
Lab Sample ID:	Q2458-06	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	92.5
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016093.D	5	07/02/25 09:17	07/03/25 11:17	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	62300		911	8990	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	2.27		37 - 130	57%	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\FF070325\
Data File : FF016093.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 11:17
Operator : YP\AJ
Sample : Q2458-06 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-60

Manual Integrations
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Integration File: autoint1.e
Quant Time: Jul 04 03:47:43 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...	15.099	274346	2.272 ug/mlm

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\
Data File : FF016093.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 11:17
Operator : YP\AJ
Sample : Q2458-06 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

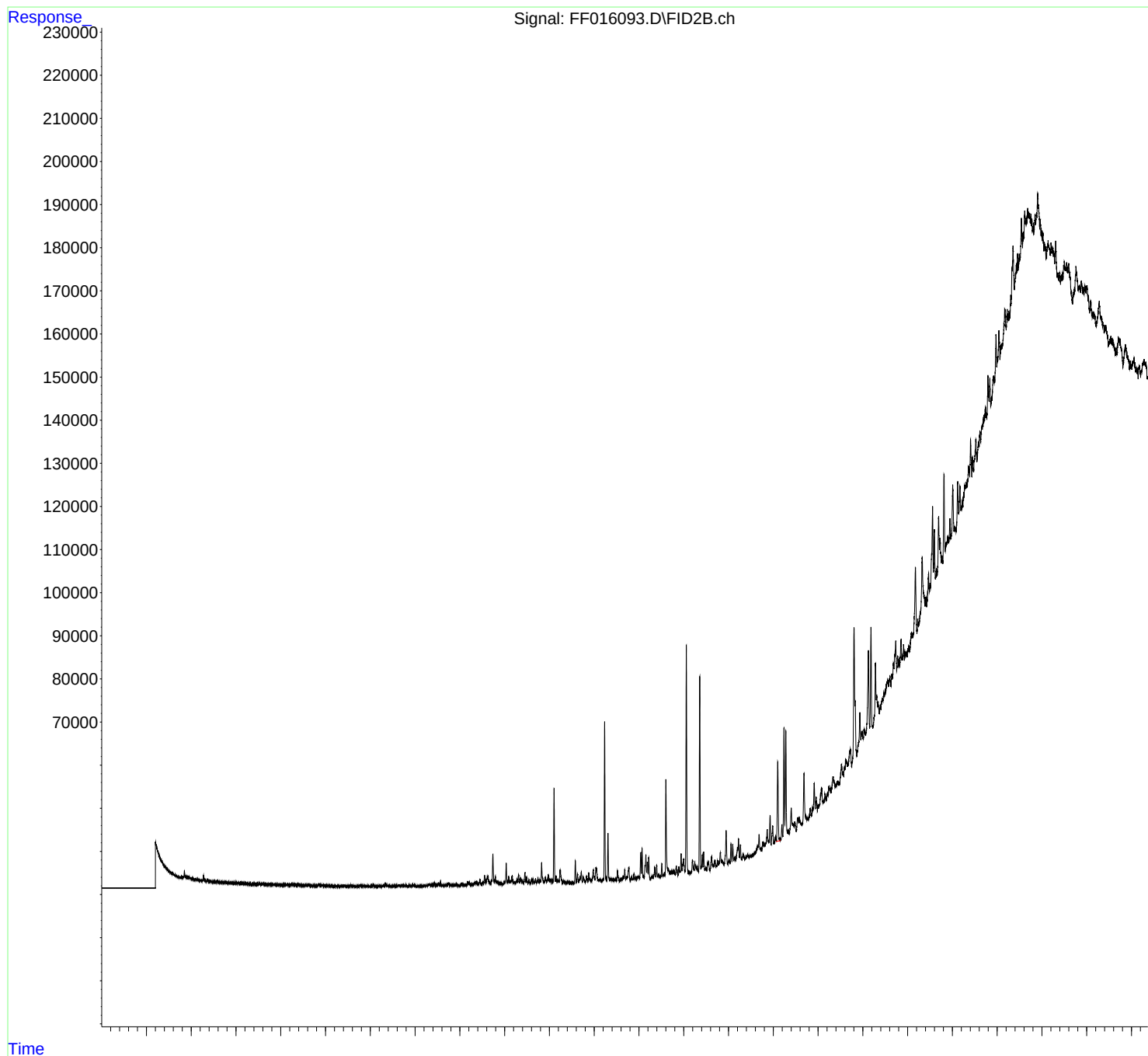
Instrument :
FID_F
ClientSampleId :
TP-60

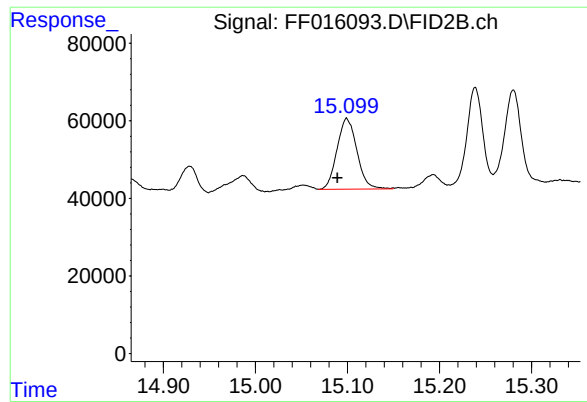
Manual Integrations
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Reviewed By :Yogesh Patel 07/07/2025
Supervised By :mohammad ahmed 07/08/2025

Integration File: autoint1.e
Quant Time: Jul 04 03:47:43 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.: 15.099 min
Delta R.T.: 0.009 min
Response: 274346
Conc: 2.27 ug/ml

Instrument :

FID_F

ClientSampleId :

TP-60

Manual Integrations

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Reviewed By :Yogesh Patel 07/07/2025

Supervised By :mohammad ahmed 07/08/2025

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\
 Data File : FF016093.D
 Signal(s) : FID2B.ch
 Acq On : 03 Jul 2025 11:17
 Sample : Q2458-06 5X
 Misc :
 ALS Vial : 23 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	8.037	7.993	8.062	PH	421	1246	0.06%	0.003%
2	8.085	8.062	8.120	PH	77	-792	-0.04%	-0.002%
3	8.124	8.120	8.142	PH	7	-635	-0.03%	-0.001%
4	8.177	8.142	8.197	PH	644	8579	0.39%	0.018%
5	8.206	8.197	8.221	HH	543	5192	0.24%	0.011%
6	8.227	8.221	8.252	HH	225	2004	0.09%	0.004%
7	8.275	8.252	8.298	PH	193	1277	0.06%	0.003%
8	8.328	8.298	8.345	PH	500	7939	0.36%	0.017%
9	8.362	8.345	8.396	HH	829	14473	0.66%	0.031%
10	8.402	8.396	8.417	HH	238	1798	0.08%	0.004%
11	8.448	8.417	8.484	HH	1247	20751	0.94%	0.044%
12	8.512	8.484	8.527	HH	578	9994	0.45%	0.021%
13	8.551	8.527	8.567	HH	2182	27502	1.25%	0.058%
14	8.581	8.567	8.591	HH	1066	11558	0.52%	0.025%
15	8.627	8.591	8.658	HH	2042	49505	2.25%	0.105%
16	8.664	8.658	8.687	HH	508	7334	0.33%	0.016%
17	8.710	8.687	8.716	HH	917	11166	0.51%	0.024%
18	8.738	8.716	8.773	HH	7148	97611	4.43%	0.207%
19	8.792	8.773	8.813	HH	1790	27363	1.24%	0.058%
20	8.828	8.813	8.844	HH	844	11060	0.50%	0.023%
21	8.850	8.844	8.865	HH	546	5450	0.25%	0.012%
22	8.880	8.865	8.889	HH	490	5371	0.24%	0.011%
23	8.916	8.889	8.944	HH	407	10006	0.45%	0.021%

Instrument :
 FID_F
 ClientSampleId :
 TP-60

Manual IntegrationsAPPROVED

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 Supervised By :mohammad ahmed 07/08/2025

24	8.955	8.944	8.963	HH	272	2394	0.11%	0.005%
25	8.985	8.963	8.999	HH	683	9718	0.44%	0.021%
26	9.035	8.999	9.066	HH	5064	67567	3.07%	0.144%
27	9.090	9.066	9.114	HH	1777	30973	1.41%	0.066%
28	9.128	9.114	9.139	HH	892	11519	0.52%	0.024%
29	9.167	9.139	9.189	HH	2023	37849	1.72%	0.080%
30	9.201	9.189	9.211	HH	603	6889	0.31%	0.015%
31	9.228	9.211	9.236	HH	629	8771	0.40%	0.019%
32	9.280	9.236	9.294	HH	1381	29428	1.34%	0.063%
33	9.311	9.294	9.332	HH	2233	29497	1.34%	0.063%
34	9.353	9.332	9.384	HH	1621	33377	1.52%	0.071%
35	9.389	9.384	9.397	HH	783	6120	0.28%	0.013%
36	9.402	9.397	9.418	HH	839	8541	0.39%	0.018%
37	9.453	9.418	9.473	HH	2856	46781	2.12%	0.099%
38	9.490	9.473	9.524	HH	1749	29446	1.34%	0.063%
39	9.544	9.524	9.572	HH	1088	19248	0.87%	0.041%
40	9.605	9.572	9.622	HH	1412	23841	1.08%	0.051%
41	9.638	9.622	9.659	HH	1302	17640	0.80%	0.037%
42	9.669	9.659	9.673	HH	629	5031	0.23%	0.011%
43	9.690	9.673	9.708	HH	1414	18878	0.86%	0.040%
44	9.744	9.708	9.764	HH	1406	27611	1.25%	0.059%
45	9.784	9.764	9.803	HH	1115	18549	0.84%	0.039%
46	9.826	9.803	9.886	HH	5151	88447	4.02%	0.188%
47	9.907	9.886	9.935	HH	1743	33668	1.53%	0.072%
48	9.974	9.935	9.998	HH	2088	50327	2.28%	0.107%
49	10.006	9.998	10.022	HH	1048	13812	0.63%	0.029%
50	10.036	10.022	10.056	HH	1238	19170	0.87%	0.041%
51	10.104	10.056	10.127	HH	22393	250794	11.39%	0.533%
52	10.148	10.127	10.171	HH	2019	34787	1.58%	0.074%
53	10.197	10.171	10.214	HH	981	22220	1.01%	0.047%
54	10.240	10.214	10.289	HH	3425	78434	3.56%	0.167%
55	10.314	10.289	10.329	HH	829	16740	0.76%	0.036%
56	10.341	10.329	10.377	HH	747	16725	0.76%	0.036%
57	10.414	10.377	10.440	HH	819	21118	0.96%	0.045%
58	10.451	10.440	10.465	HH	622	7526	0.34%	0.016%
59	10.469	10.465	10.486	HH	541	5653	0.26%	0.012%
60	10.489	10.486	10.502	HH	469	4338	0.20%	0.009%
61	10.513	10.502	10.532	HH	580	8696	0.39%	0.018%
62	10.579	10.532	10.604	HH	5604	78163	3.55%	0.166%

Instrument :
FID_F
ClientSampleId :
TP-60

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/07/2025
Supervised By :mohammad ahmed 07/08/2025

63	10.627	10.604	10.652	HH	2411	41564	1.89%	0.088%
64	10.683	10.652	10.696	HH	1771	33233	1.51%	0.071%
65	10.710	10.696	10.735	HH	2833	42529	1.93%	0.090%
66	10.751	10.735	10.797	HH	1936	42953	1.95%	0.091%
67	10.829	10.797	10.862	HH	2036	48444	2.20%	0.103%
68	10.880	10.862	10.921	HH	2740	56087	2.55%	0.119%
69	10.931	10.921	10.942	HH	1056	12694	0.58%	0.027%
70	10.978	10.942	11.013	HH	3456	82818	3.76%	0.176%
71	11.040	11.013	11.092	HH	3956	114456	5.20%	0.243%
72	11.105	11.092	11.118	HH	1292	18087	0.82%	0.038%
73	11.132	11.118	11.149	HH	1322	20120	0.91%	0.043%
74	11.170	11.149	11.183	HH	1071	19375	0.88%	0.041%
75	11.200	11.183	11.209	HH	1441	18363	0.83%	0.039%
76	11.233	11.209	11.278	HH	37891	425010	19.29%	0.903%
77	11.308	11.278	11.350	HH	11959	173996	7.90%	0.370%
78	11.371	11.350	11.391	HH	1492	31812	1.44%	0.068%
79	11.399	11.391	11.407	HH	1136	11078	0.50%	0.024%
80	11.411	11.407	11.416	HH	1127	5386	0.24%	0.011%
81	11.435	11.416	11.461	HH	1203	30255	1.37%	0.064%
82	11.481	11.461	11.501	HH	1463	28949	1.31%	0.062%
83	11.521	11.501	11.565	HH	3352	68831	3.12%	0.146%
84	11.592	11.565	11.607	HH	1344	29383	1.33%	0.062%
85	11.640	11.607	11.660	HH	1674	47423	2.15%	0.101%
86	11.682	11.660	11.702	HH	3436	58007	2.63%	0.123%
87	11.727	11.702	11.738	HH	1891	35287	1.60%	0.075%
88	11.772	11.738	11.807	HH	3816	99780	4.53%	0.212%
89	11.837	11.807	11.856	HH	1960	43633	1.98%	0.093%
90	11.888	11.856	11.907	HH	2544	54297	2.46%	0.115%
91	11.928	11.907	11.942	HH	1679	31230	1.42%	0.066%
92	11.984	11.942	12.007	HH	1963	64991	2.95%	0.138%
93	12.039	12.007	12.054	HH	7548	108890	4.94%	0.231%
94	12.069	12.054	12.092	HH	8452	110858	5.03%	0.236%
95	12.105	12.092	12.116	HH	2018	27984	1.27%	0.059%
96	12.154	12.116	12.172	HH	6935	145008	6.58%	0.308%
97	12.187	12.172	12.202	HH	5330	72437	3.29%	0.154%
98	12.218	12.202	12.246	HH	6411	98288	4.46%	0.209%
99	12.263	12.246	12.272	HH	1640	24404	1.11%	0.052%
100	12.295	12.272	12.317	HH	2025	48293	2.19%	0.103%
101	12.355	12.317	12.377	HH	3857	94200	4.28%	0.200%

Instrument :

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TP-60

Manual IntegrationsAPPROVED

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Supervised By :mohammad ahmed 07/08/2025

102	12.395	12.377	12.416	HH	4596	72248	3.28%	0.154%
103	12.440	12.416	12.460	HH	2418	57485	2.61%	0.122%
104	12.470	12.460	12.487	HH	2027	31626	1.44%	0.067%
105	12.510	12.487	12.530	HH	4954	82050	3.72%	0.174%
106	12.543	12.530	12.557	HH	2386	35586	1.62%	0.076%
107	12.572	12.557	12.586	HH	2599	42396	1.92%	0.090%
108	12.602	12.586	12.649	HH	24470	356320	16.18%	0.757%
109	12.659	12.649	12.680	HH	3617	59958	2.72%	0.127%
110	12.690	12.680	12.702	HH	2929	37308	1.69%	0.079%
111	12.719	12.702	12.752	HH	3214	88699	4.03%	0.188%
112	12.767	12.752	12.775	HH	3176	41694	1.89%	0.089%
113	12.783	12.775	12.809	HH	3185	57727	2.62%	0.123%
114	12.831	12.809	12.872	HH	4301	120053	5.45%	0.255%
115	12.890	12.872	12.919	HH	4168	92648	4.21%	0.197%
116	12.942	12.919	12.960	HH	7235	120160	5.46%	0.255%
117	12.997	12.960	13.025	HH	5926	176644	8.02%	0.375%
118	13.058	13.025	13.107	HH	55375	722981	32.82%	1.536%
119	13.118	13.107	13.136	HH	3131	49820	2.26%	0.106%
120	13.157	13.136	13.169	HH	3085	56545	2.57%	0.120%
121	13.194	13.169	13.230	HH	5767	152512	6.92%	0.324%
122	13.247	13.230	13.284	HH	5121	137716	6.25%	0.293%
123	13.300	13.284	13.330	HH	4260	101611	4.61%	0.216%
124	13.357	13.330	13.382	HH	48297	602741	27.36%	1.281%
125	13.413	13.382	13.429	HH	6925	140195	6.36%	0.298%
126	13.445	13.429	13.479	HH	7665	152869	6.94%	0.325%
127	13.495	13.479	13.509	HH	3977	67819	3.08%	0.144%
128	13.531	13.509	13.542	HH	5114	87137	3.96%	0.185%
129	13.555	13.542	13.583	HH	5171	105097	4.77%	0.223%
130	13.623	13.583	13.646	HH	6590	186697	8.48%	0.397%
131	13.650	13.646	13.672	HH	4641	69871	3.17%	0.148%
132	13.694	13.672	13.715	HH	5799	130035	5.90%	0.276%
133	13.727	13.715	13.739	HH	4472	61692	2.80%	0.131%
134	13.754	13.739	13.769	HH	5673	91422	4.15%	0.194%
135	13.786	13.769	13.792	HH	5239	69912	3.17%	0.149%
136	13.817	13.792	13.837	HH	7460	166003	7.54%	0.353%
137	13.854	13.837	13.897	HH	5704	186180	8.45%	0.396%
138	13.947	13.897	13.979	HH	12585	357199	16.22%	0.759%
139	14.015	13.979	14.032	HH	5804	168958	7.67%	0.359%
140	14.056	14.032	14.076	HH	9456	190344	8.64%	0.404%

Instrument :

FID_F

ClientSampleId :

TP-60

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/07/2025

Supervised By :mohammad ahmed 07/08/2025

141	14.095	14.076	14.122	HH	9299	195657	8.88%	0.416%
142	14.143	14.122	14.163	HH	6387	150281	6.82%	0.319%
143	14.203	14.163	14.207	HH	8516	191826	8.71%	0.408%
144	14.224	14.207	14.246	HH	10624	197598	8.97%	0.420%
145	14.266	14.246	14.296	HH	9268	217255	9.86%	0.462%
146	14.325	14.296	14.365	HH	7034	267264	12.13%	0.568%
147	14.400	14.365	14.409	HH	6586	166638	7.57%	0.354%
148	14.434	14.409	14.454	HH	6936	180112	8.18%	0.383%
149	14.478	14.454	14.493	HH	6804	156954	7.13%	0.333%
150	14.501	14.493	14.507	HH	6680	56027	2.54%	0.119%
151	14.536	14.507	14.551	HH	6913	175699	7.98%	0.373%
152	14.561	14.551	14.567	HH	7175	70425	3.20%	0.150%
153	14.588	14.567	14.603	HH	7624	155822	7.07%	0.331%
154	14.649	14.603	14.656	HH	8881	261183	11.86%	0.555%
155	14.683	14.656	14.738	HH	11671	450874	20.47%	0.958%
156	14.762	14.738	14.775	HH	9871	200803	9.12%	0.427%
157	14.794	14.775	14.811	HH	9701	199096	9.04%	0.423%
158	14.864	14.811	14.894	HH	12805	522896	23.74%	1.111%
159	14.899	14.894	14.906	HH	10136	74920	3.40%	0.159%
160	14.929	14.906	14.949	HH	16052	324403	14.73%	0.689%
161	14.987	14.949	15.015	HH	13626	443334	20.13%	0.942%
162	15.052	15.015	15.069	HH	11211	337547	15.32%	0.717%
163	15.099	15.069	15.146	HH	28486	743118	33.74%	1.579%
164	15.156	15.146	15.164	HH	10585	111084	5.04%	0.236%
165	15.193	15.164	15.212	HH	13917	347755	15.79%	0.739%
166	15.239	15.212	15.258	HH	36434	605616	27.49%	1.287%
167	15.280	15.258	15.316	HH	35742	703408	31.93%	1.495%
168	15.331	15.316	15.364	HH	12630	354033	16.07%	0.752%
169	15.401	15.364	15.432	HH	17774	599842	27.23%	1.275%
170	15.447	15.432	15.459	HH	14109	223279	10.14%	0.474%
171	15.482	15.459	15.511	HH	14631	432972	19.66%	0.920%
172	15.539	15.511	15.567	HH	15403	477651	21.68%	1.015%
173	15.582	15.567	15.621	HH	15609	479932	21.79%	1.020%
174	15.626	15.621	15.636	HH	14100	126548	5.75%	0.269%
175	15.646	15.636	15.652	HH	14187	140741	6.39%	0.299%
176	15.685	15.652	15.746	HH	25805	1011688	45.93%	2.150%
177	15.759	15.746	15.769	HH	15467	212433	9.64%	0.451%
178	15.791	15.769	15.796	HH	15536	239360	10.87%	0.509%
179	15.825	15.796	15.854	HH	17784	581589	26.40%	1.236%
180	15.878	15.854	15.887	HH	17949	343374	15.59%	0.730%

Instrument :

FID_F

ClientSampleId :

TP-60

Manual IntegrationsAPPROVED

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Supervised By :mohammad ahmed 07/08/2025

181	15.914	15.887	15.937	HH	23447	594429	26.99%	1.263%
182	15.955	15.937	15.986	HH	20413	553025	25.11%	1.175%
183	15.996	15.986	16.009	HH	18381	255937	11.62%	0.544%
184	16.060	16.009	16.065	HH	21203	643600	29.22%	1.368%
185	16.077	16.065	16.114	HH	22530	612503	27.81%	1.301%
186	16.130	16.114	16.136	HH	19487	251201	11.40%	0.534%
187	16.155	16.136	16.180	HH	21106	540761	24.55%	1.149%
188	16.212	16.180	16.223	HH	21355	532113	24.16%	1.131%
189	16.243	16.223	16.262	HH	23011	511362	23.21%	1.087%
190	16.272	16.262	16.291	HH	22364	379548	17.23%	0.806%
191	16.331	16.291	16.337	HH	25112	650207	29.52%	1.382%
192	16.338	16.337	16.382	HH	25073	640956	29.10%	1.362%
193	16.388	16.382	16.393	HH	23228	143328	6.51%	0.305%
194	16.399	16.393	16.407	HH	23194	202683	9.20%	0.431%
195	16.422	16.407	16.465	HH	23800	813155	36.92%	1.728%
196	16.522	16.465	16.548	HH	27882	1269045	57.61%	2.696%
197	16.555	16.548	16.571	HH	26342	350048	15.89%	0.744%
198	16.587	16.571	16.595	HH	27088	392987	17.84%	0.835%
199	16.621	16.595	16.654	HH	29062	982900	44.62%	2.088%
200	16.667	16.654	16.680	HH	28199	444161	20.16%	0.944%
201	16.704	16.680	16.716	HH	31048	636603	28.90%	1.353%
202	16.723	16.716	16.752	HH	31369	639899	29.05%	1.360%
203	16.804	16.752	16.824	HH	59567	1709312	77.60%	3.632%
204	16.830	16.824	16.867	HH	42655	920152	41.77%	1.955%
205	16.933	16.867	16.954	HH	39961	1772664	80.48%	3.766%
206	16.985	16.954	17.008	HH	35393	1129871	51.29%	2.401%
207	17.032	17.008	17.063	HH	36123	1145839	52.02%	2.435%
208	17.124	17.063	17.151	HH	54271	2202739	100.00%	4.680%
209	17.182	17.151	17.222	HH	59654	1854251	84.18%	3.940%
210	17.282	17.222	17.299	HH	51356	1933229	87.76%	4.108%

Sum of corrected areas: 47063973

FF061325.M Fri Jul 04 05:02:07 2025

Instrument :
FID_F
ClientSampleId :
TP-60

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/07/2025
Supervised By :mohammad ahmed 07/08/2025

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-62	SDG No.:	Q2458
Lab Sample ID:	Q2458-07	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	91.1
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
FG016202.D	1	07/02/25 09:17	07/02/25 16:06	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	3130		185	1830	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	8.97		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\FG070225\
Data File : FG016202.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 16:06
Operator : YP\AJ
Sample : Q2458-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-62

Integration File: autoint1.e
Quant Time: Jul 03 01:22:54 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	1052111	8.969 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

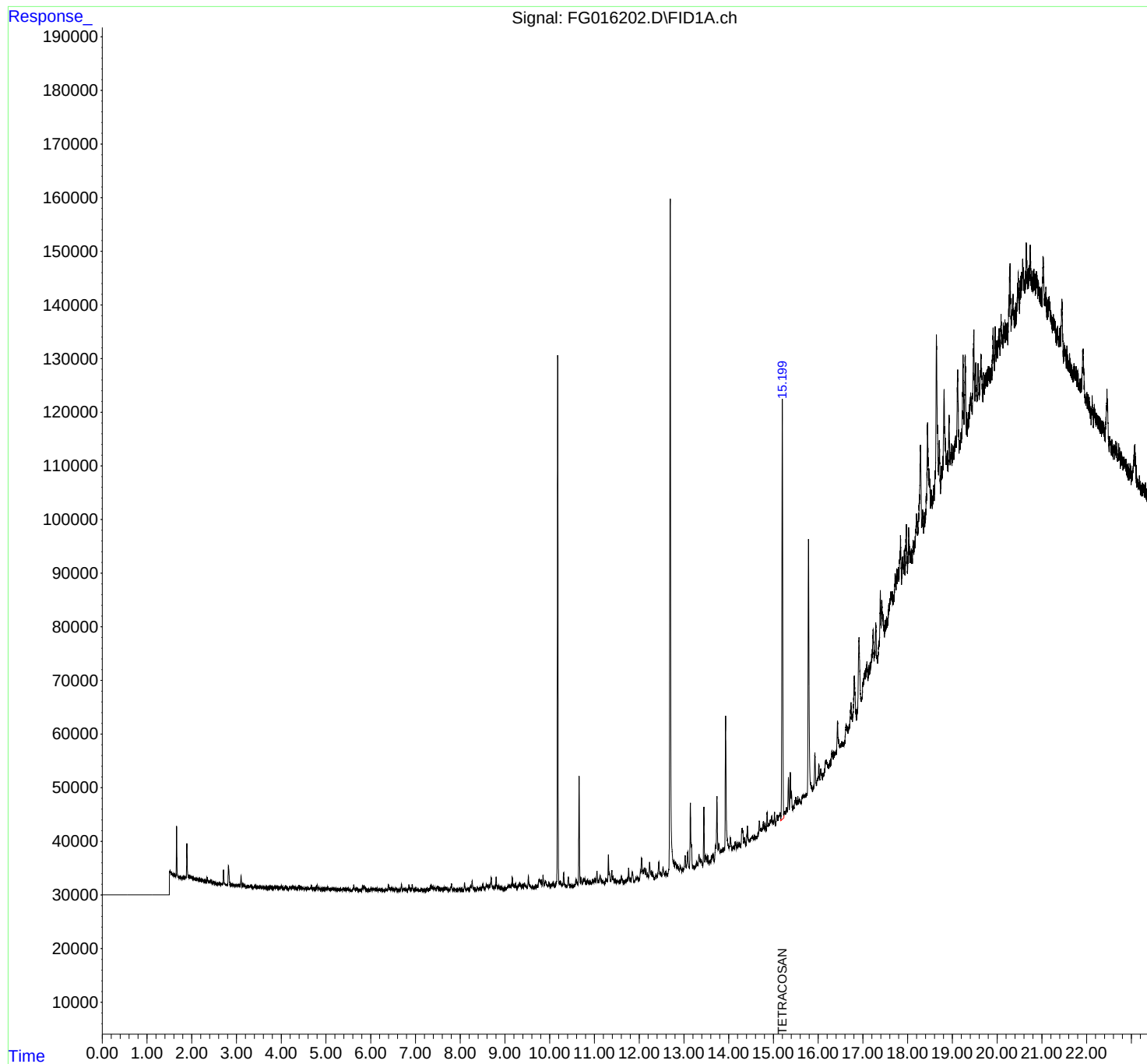
(m)=manual int.

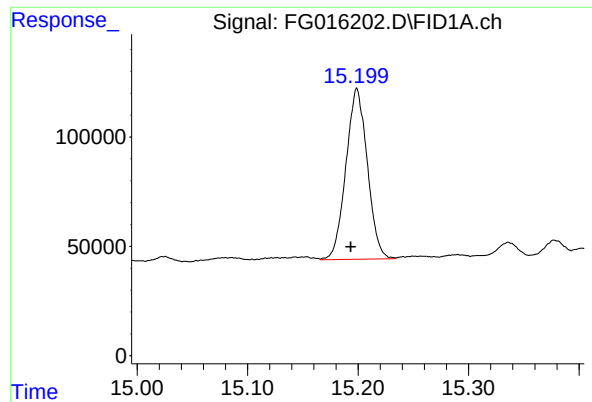
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016202.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 16:06
Operator : YP\AJ
Sample : Q2458-07
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-62

Integration File: autoint1.e
Quant Time: Jul 03 01:22:54 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.: 0.005 min
Response: 1052111
Conc: 8.97 ug/ml

Instrument :
FID_G
ClientSampleId :
TP-62

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
 Data File : FG016202.D
 Signal(s) : FID1A.ch
 Acq On : 02 Jul 2025 16:06
 Sample : Q2458-07
 Misc :
 ALS Vial : 21 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	4.533	4.500	4.557	BV	213	1994	0.12%	0.016%
2	4.581	4.557	4.600	PV	138	1317	0.08%	0.011%
3	4.618	4.600	4.632	PV	141	1400	0.08%	0.011%
4	4.642	4.632	4.655	VV	169	1404	0.08%	0.011%
5	4.675	4.655	4.696	VV	787	9250	0.54%	0.076%
6	4.713	4.696	4.738	VV	365	4629	0.27%	0.038%
7	4.751	4.738	4.771	VV	235	2582	0.15%	0.021%
8	4.803	4.771	4.820	VV	894	11045	0.64%	0.090%
9	4.838	4.820	4.867	VV	381	4963	0.29%	0.041%
10	4.869	4.867	4.879	VV	94	564	0.03%	0.005%
11	4.898	4.879	4.925	VV	264	4360	0.25%	0.036%
12	4.931	4.925	4.948	VV	146	972	0.06%	0.008%
13	4.960	4.948	4.975	VV	257	2389	0.14%	0.020%
14	4.987	4.975	5.001	VV	281	2579	0.15%	0.021%
15	5.005	5.001	5.010	VV	140	388	0.02%	0.003%
16	5.043	5.010	5.072	VV	568	8159	0.48%	0.067%
17	5.079	5.072	5.115	VV	286	4519	0.26%	0.037%
18	5.135	5.115	5.148	VV	332	3633	0.21%	0.030%
19	5.154	5.148	5.160	VV	214	1365	0.08%	0.011%
20	5.176	5.160	5.187	VV	285	3457	0.20%	0.028%
21	5.190	5.187	5.210	VV	265	2299	0.13%	0.019%
22	5.221	5.210	5.228	VV	179	1378	0.08%	0.011%
23	5.231	5.228	5.253	VV	158	1387	0.08%	0.011%
24	5.258	5.253	5.284	VV	143	1243	0.07%	0.010%
25	5.314	5.284	5.342	VV	191	3672	0.21%	0.030%
26	5.357	5.342	5.363	VV	211	1422	0.08%	0.012%
27	5.384	5.363	5.413	VV	453	8400	0.49%	0.069%
28	5.430	5.413	5.449	VV	289	4171	0.24%	0.034%
29	5.465	5.449	5.474	VV	252	2476	0.14%	0.020%
30	5.495	5.474	5.546	VV	484	9408	0.55%	0.077%
31	5.560	5.546	5.582	PV	140	1498	0.09%	0.012%
32	5.621	5.582	5.646	PV	1112	14814	0.86%	0.121%
33	5.662	5.646	5.677	VV	305	3979	0.23%	0.033%
34	5.696	5.677	5.713	VV	446	6174	0.36%	0.050%
35	5.718	5.713	5.727	VV	119	832	0.05%	0.007%
36	5.763	5.727	5.784	VV	200	3882	0.23%	0.032%

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37	5.817	5.784	5.833	PV	976	12433	0.72%	0.102%
38	5.850	5.833	5.862	VV	1030	12118	0.71%	0.099%
39	5.869	5.862	5.900	VV	772	9298	0.54%	0.076%
40	5.904	5.900	5.912	VV	181	952	0.06%	0.008%
41	5.916	5.912	5.924	VV	136	939	0.05%	0.008%
42	5.933	5.924	5.977	VV	281	5163	0.30%	0.042%
43	5.981	5.977	5.987	VV	118	650	0.04%	0.005%
44	6.005	5.987	6.034	VV	498	8566	0.50%	0.070%
45	6.064	6.034	6.075	VV	415	7107	0.41%	0.058%
46	6.079	6.075	6.085	VV	332	1775	0.10%	0.015%
47	6.089	6.085	6.102	VV	297	2220	0.13%	0.018%
48	6.137	6.102	6.161	VV	492	9990	0.58%	0.082%
49	6.188	6.161	6.230	VV	350	7887	0.46%	0.064%
50	6.236	6.230	6.249	VV	222	1744	0.10%	0.014%
51	6.259	6.249	6.281	VV	224	2770	0.16%	0.023%
52	6.296	6.281	6.314	VV	267	3002	0.17%	0.025%
53	6.351	6.314	6.375	PV	345	6986	0.41%	0.057%
54	6.395	6.375	6.436	VV	1174	20662	1.20%	0.169%
55	6.451	6.436	6.454	VV	321	3001	0.17%	0.025%
56	6.467	6.454	6.487	VV	590	8086	0.47%	0.066%
57	6.496	6.487	6.522	VV	351	4748	0.28%	0.039%
58	6.567	6.522	6.574	VV	446	8382	0.49%	0.068%
59	6.578	6.574	6.599	VV	341	3248	0.19%	0.027%
60	6.604	6.599	6.617	VV	101	960	0.06%	0.008%
61	6.626	6.617	6.646	VV	255	3241	0.19%	0.026%
62	6.656	6.646	6.667	VV	235	2184	0.13%	0.018%
63	6.688	6.667	6.723	VV	1199	17234	1.00%	0.141%
64	6.741	6.723	6.766	VV	496	7661	0.45%	0.063%
65	6.781	6.766	6.799	VV	357	4900	0.29%	0.040%
66	6.805	6.799	6.819	VV	230	1871	0.11%	0.015%
67	6.853	6.819	6.905	VV	1144	22997	1.34%	0.188%
68	6.928	6.905	6.957	VV	1188	15930	0.93%	0.130%
69	6.964	6.957	6.970	VV	191	1259	0.07%	0.010%
70	6.973	6.970	6.990	VV	164	1631	0.10%	0.013%
71	7.009	6.990	7.034	VV	488	7401	0.43%	0.060%
72	7.048	7.034	7.053	VV	331	2744	0.16%	0.022%
73	7.056	7.053	7.097	VV	310	3535	0.21%	0.029%
74	7.118	7.097	7.126	VV	199	2439	0.14%	0.020%
75	7.144	7.126	7.164	VV	299	3903	0.23%	0.032%
76	7.182	7.164	7.235	PV	244	5187	0.30%	0.042%
77	7.265	7.235	7.292	PV	587	8574	0.50%	0.070%
78	7.295	7.292	7.322	VV	402	3567	0.21%	0.029%
79	7.340	7.322	7.379	VV	1010	23026	1.34%	0.188%
80	7.388	7.379	7.413	VV	648	10729	0.63%	0.088%
81	7.429	7.413	7.460	VV	668	11395	0.66%	0.093%
82	7.494	7.460	7.513	VV	848	15450	0.90%	0.126%
83	7.528	7.513	7.564	VV	496	9122	0.53%	0.075%
84	7.582	7.564	7.615	VV	529	8982	0.52%	0.073%
85	7.633	7.615	7.655	VV	596	7676	0.45%	0.063%
86	7.673	7.655	7.690	VV	682	8133	0.47%	0.066%
87	7.706	7.690	7.737	VV	435	5959	0.35%	0.049%
88	7.753	7.737	7.768	PV	303	3408	0.20%	0.028%
89	7.806	7.768	7.835	VV	1326	22131	1.29%	0.181%

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90	7.842	7.835	7.857	VV	238	2221	0.13%	0.018%
91	7.862	7.857	7.877	VV	256	2371	0.14%	0.019%
92	7.882	7.877	7.886	VV	217	1037	0.06%	0.008%
93	7.888	7.886	7.911	VV	224	2045	0.12%	0.017%
94	7.939	7.911	7.951	VV	208	2944	0.17%	0.024%
95	7.983	7.951	8.014	VV	451	7727	0.45%	0.063%
96	8.035	8.014	8.070	VV	207	3980	0.23%	0.033%
97	8.098	8.070	8.123	PV	1521	18004	1.05%	0.147%
98	8.127	8.123	8.132	VV	168	981	0.06%	0.008%
99	8.150	8.132	8.164	VV	307	3643	0.21%	0.030%
100	8.179	8.164	8.207	VV	278	4654	0.27%	0.038%
101	8.235	8.207	8.250	VV	903	13773	0.80%	0.113%
102	8.268	8.250	8.286	VV	1730	21999	1.28%	0.180%
103	8.290	8.286	8.322	VV	398	5714	0.33%	0.047%
104	8.338	8.322	8.361	VV	317	3685	0.21%	0.030%
105	8.394	8.361	8.411	PV	372	6369	0.37%	0.052%
106	8.427	8.411	8.432	VV	352	3556	0.21%	0.029%
107	8.444	8.432	8.480	VV	386	7094	0.41%	0.058%
108	8.510	8.480	8.554	VV	1059	22830	1.33%	0.187%
109	8.582	8.554	8.607	VV	969	20087	1.17%	0.164%
110	8.617	8.607	8.632	VV	924	10232	0.60%	0.084%
111	8.646	8.632	8.654	VV	783	7912	0.46%	0.065%
112	8.693	8.654	8.726	VV	2261	47586	2.77%	0.389%
113	8.738	8.726	8.759	VV	433	7647	0.45%	0.062%
114	8.804	8.759	8.841	VV	2351	41017	2.39%	0.335%
115	8.860	8.841	8.879	VV	668	10291	0.60%	0.084%
116	8.887	8.879	8.907	VV	344	5206	0.30%	0.043%
117	8.922	8.907	8.960	VV	403	6818	0.40%	0.056%
118	8.970	8.960	8.977	PV	122	596	0.03%	0.005%
119	8.996	8.977	9.013	VV	233	3314	0.19%	0.027%
120	9.026	9.013	9.036	VV	199	2096	0.12%	0.017%
121	9.070	9.036	9.087	VV	583	12704	0.74%	0.104%
122	9.101	9.087	9.122	VV	656	10635	0.62%	0.087%
123	9.166	9.122	9.214	VV	2012	43005	2.51%	0.351%
124	9.235	9.214	9.271	VV	992	16400	0.96%	0.134%
125	9.298	9.271	9.307	VV	643	8277	0.48%	0.068%
126	9.321	9.307	9.334	VV	995	12855	0.75%	0.105%
127	9.345	9.334	9.367	VV	873	12179	0.71%	0.100%
128	9.383	9.367	9.412	VV	586	11461	0.67%	0.094%
129	9.439	9.412	9.457	VV	993	16374	0.95%	0.134%
130	9.471	9.457	9.484	VV	414	5136	0.30%	0.042%
131	9.524	9.484	9.544	VV	2340	30493	1.78%	0.249%
132	9.558	9.544	9.580	VV	692	9361	0.55%	0.076%
133	9.582	9.580	9.592	VV	274	1375	0.08%	0.011%
134	9.597	9.592	9.604	VV	175	1157	0.07%	0.009%
135	9.613	9.604	9.655	VV	235	3549	0.21%	0.029%
136	9.676	9.655	9.695	VV	465	5197	0.30%	0.042%
137	9.710	9.695	9.736	VV	372	5575	0.32%	0.046%
138	9.766	9.736	9.780	VV	1503	29759	1.73%	0.243%
139	9.785	9.780	9.804	VV	1424	17600	1.03%	0.144%
140	9.812	9.804	9.837	VV	1180	17912	1.04%	0.146%
141	9.853	9.837	9.881	VV	2296	29370	1.71%	0.240%

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142	9.904	9.881	9.957	VV	1271	32790	1.91%	0.268%
143	9.978	9.957	10.012	VV	957	17696	1.03%	0.145%
144	10.042	10.012	10.054	VV	563	9049	0.53%	0.074%
145	10.077	10.054	10.120	VV	726	17471	1.02%	0.143%
146	10.179	10.120	10.220	VV	99280	1011711	58.95%	8.266%
147	10.243	10.220	10.269	VV	1036	19763	1.15%	0.161%
148	10.274	10.269	10.291	VV	471	4836	0.28%	0.040%
149	10.312	10.291	10.339	VV	2674	35290	2.06%	0.288%
150	10.343	10.339	10.370	VV	461	3663	0.21%	0.030%
151	10.381	10.370	10.385	PV	132	761	0.04%	0.006%
152	10.414	10.385	10.456	VV	1821	25819	1.50%	0.211%
153	10.463	10.456	10.470	PV	87	479	0.03%	0.004%
154	10.489	10.470	10.514	VV	273	3378	0.20%	0.028%
155	10.518	10.514	10.544	VV	126	1059	0.06%	0.009%
156	10.591	10.544	10.628	VV	1314	27390	1.60%	0.224%
157	10.657	10.628	10.688	VV	20472	223775	13.04%	1.828%
158	10.702	10.688	10.727	VV	1292	19301	1.12%	0.158%
159	10.756	10.727	10.769	VV	1286	19949	1.16%	0.163%
160	10.784	10.769	10.815	VV	1310	23409	1.36%	0.191%
161	10.833	10.815	10.844	VV	810	11200	0.65%	0.092%
162	10.851	10.844	10.884	VV	818	12630	0.74%	0.103%
163	10.901	10.884	10.941	VV	748	15673	0.91%	0.128%
164	10.960	10.941	10.981	VV	1085	16628	0.97%	0.136%
165	10.985	10.981	10.993	VV	679	4523	0.26%	0.037%
166	11.010	10.993	11.023	VV	1194	15321	0.89%	0.125%
167	11.057	11.023	11.096	VV	2575	47585	2.77%	0.389%
168	11.128	11.096	11.148	VV	1720	33654	1.96%	0.275%
169	11.156	11.148	11.211	VV	818	19833	1.16%	0.162%
170	11.221	11.211	11.236	VV	413	4062	0.24%	0.033%
171	11.254	11.236	11.272	VV	1052	14504	0.85%	0.119%
172	11.280	11.272	11.292	VV	813	8033	0.47%	0.066%
173	11.312	11.292	11.327	VV	5463	60906	3.55%	0.498%
174	11.334	11.327	11.364	VV	2071	28404	1.66%	0.232%
175	11.388	11.364	11.405	VV	2498	33955	1.98%	0.277%
176	11.416	11.405	11.451	VV	1259	22024	1.28%	0.180%
177	11.455	11.451	11.466	VV	574	4143	0.24%	0.034%
178	11.483	11.466	11.504	VV	504	8963	0.52%	0.073%
179	11.513	11.504	11.553	VV	380	8943	0.52%	0.073%
180	11.567	11.553	11.580	VV	417	4637	0.27%	0.038%
181	11.600	11.580	11.652	VV	1154	22779	1.33%	0.186%
182	11.694	11.652	11.700	PV	474	7206	0.42%	0.059%
183	11.706	11.700	11.719	VV	440	4152	0.24%	0.034%
184	11.733	11.719	11.745	VV	806	9537	0.56%	0.078%
185	11.765	11.745	11.785	VV	2698	33824	1.97%	0.276%
186	11.793	11.785	11.818	VV	593	9847	0.57%	0.080%
187	11.846	11.818	11.887	VV	1787	39035	2.27%	0.319%
188	11.928	11.887	11.945	PV	726	12204	0.71%	0.100%
189	11.965	11.945	11.988	VV	844	13967	0.81%	0.114%
190	12.029	11.988	12.037	VV	1857	25203	1.47%	0.206%
191	12.055	12.037	12.094	VV	4218	86582	5.04%	0.707%
192	12.120	12.094	12.138	VV	2227	45004	2.62%	0.368%
193	12.153	12.138	12.172	VV	2103	28185	1.64%	0.230%
194	12.186	12.172	12.204	VV	1078	15088	0.88%	0.123%

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195	12.233	12.204	12.260	VV	3178	54569	3.18%	0.446%
196	12.270	12.260	12.287	VV	1485	17813	1.04%	0.146%
197	12.304	12.287	12.334	VV	1258	17163	1.00%	0.140%
198	12.344	12.334	12.349	VV	193	1110	0.06%	0.009%
199	12.377	12.349	12.404	PV	712	10485	0.61%	0.086%
200	12.439	12.404	12.459	VV	2872	45472	2.65%	0.372%
201	12.473	12.459	12.500	VV	912	13581	0.79%	0.111%
202	12.534	12.500	12.577	VV	1624	32782	1.91%	0.268%
203	12.597	12.577	12.617	VV	813	10698	0.62%	0.087%
204	12.628	12.617	12.638	VV	248	1836	0.11%	0.015%
205	12.695	12.638	12.764	VV	126147	1716233	100.00%	14.023%
206	12.775	12.764	12.790	VV	2407	31759	1.85%	0.259%
207	12.806	12.790	12.842	VV	2066	49944	2.91%	0.408%
208	12.857	12.842	12.892	VV	1490	31976	1.86%	0.261%
209	12.919	12.892	12.956	VV	1260	23963	1.40%	0.196%
210	12.975	12.956	12.988	PV	570	6531	0.38%	0.053%
211	13.029	12.988	13.052	VV	2736	49049	2.86%	0.401%
212	13.086	13.052	13.122	VV	3390	62025	3.61%	0.507%
213	13.145	13.122	13.164	VV	12332	149354	8.70%	1.220%
214	13.168	13.164	13.194	VV	4347	43563	2.54%	0.356%
215	13.215	13.194	13.232	VV	450	5421	0.32%	0.044%
216	13.252	13.232	13.264	VV	234	3282	0.19%	0.027%
217	13.286	13.264	13.315	VV	1057	18884	1.10%	0.154%
218	13.337	13.315	13.365	VV	2295	40025	2.33%	0.327%
219	13.384	13.365	13.424	VV	1215	23755	1.38%	0.194%
220	13.446	13.424	13.468	PV	10764	117094	6.82%	0.957%
221	13.483	13.468	13.518	VV	1648	33403	1.95%	0.273%
222	13.536	13.518	13.569	VV	1563	19881	1.16%	0.162%
223	13.582	13.569	13.598	VV	491	4851	0.28%	0.040%
224	13.617	13.598	13.630	VV	1280	15040	0.88%	0.123%
225	13.650	13.630	13.675	VV	1343	24627	1.43%	0.201%
226	13.704	13.675	13.714	PV	2832	34396	2.00%	0.281%
227	13.738	13.714	13.766	VV	11911	174487	10.17%	1.426%
228	13.784	13.766	13.807	VV	2850	50813	2.96%	0.415%
229	13.820	13.807	13.830	VV	1372	17269	1.01%	0.141%
230	13.846	13.830	13.859	VV	1534	21325	1.24%	0.174%
231	13.879	13.859	13.893	VV	1714	29151	1.70%	0.238%
232	13.931	13.893	14.006	VV	25928	423972	24.70%	3.464%
233	14.040	14.006	14.074	VV	2909	69222	4.03%	0.566%
234	14.093	14.074	14.099	VV	964	13206	0.77%	0.108%
235	14.107	14.099	14.127	VV	1062	13487	0.79%	0.110%
236	14.148	14.127	14.172	VV	1835	29370	1.71%	0.240%
237	14.190	14.172	14.207	VV	1511	18971	1.11%	0.155%
238	14.229	14.207	14.233	VV	1085	14003	0.82%	0.114%
239	14.239	14.233	14.266	VV	1130	14436	0.84%	0.118%
240	14.296	14.266	14.311	VV	3558	60557	3.53%	0.495%
241	14.317	14.311	14.339	VV	3148	33752	1.97%	0.276%
242	14.360	14.339	14.383	VV	1634	24031	1.40%	0.196%
243	14.419	14.383	14.449	PV	3476	60429	3.52%	0.494%
244	14.455	14.449	14.465	VV	804	5421	0.32%	0.044%
245	14.477	14.465	14.484	VV	620	5229	0.30%	0.043%
246	14.526	14.484	14.554	VV	956	29349	1.71%	0.240%

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247	14.580	14.554	14.598	VV	776	12093	0.70%	0.099%
248	14.614	14.598	14.621	VV	533	4965	0.29%	0.041%
249	14.627	14.621	14.637	VV	386	2017	0.12%	0.016%
250	14.685	14.637	14.703	VV	2928	51650	3.01%	0.422%
251	14.723	14.703	14.740	VV	1332	23873	1.39%	0.195%
252	14.776	14.740	14.794	VV	2245	44008	2.56%	0.360%
253	14.812	14.794	14.840	VV	1751	25923	1.51%	0.212%
254	14.859	14.840	14.877	VV	3494	43100	2.51%	0.352%
255	14.933	14.877	14.947	VV	1733	48425	2.82%	0.396%
256	14.962	14.947	14.977	VV	2348	31946	1.86%	0.261%
257	14.988	14.977	15.007	VV	1170	17010	0.99%	0.139%
258	15.025	15.007	15.048	VV	2482	29083	1.69%	0.238%
259	15.080	15.048	15.107	PV	1793	36069	2.10%	0.295%
260	15.153	15.107	15.166	VV	1617	41132	2.40%	0.336%
261	15.199	15.166	15.234	VV	78304	1056348	61.55%	8.631%
262	15.251	15.234	15.273	VV	1166	21348	1.24%	0.174%
263	15.290	15.273	15.302	VV	1651	20750	1.21%	0.170%
264	15.336	15.302	15.355	VV	6936	97130	5.66%	0.794%
265	15.378	15.355	15.393	VV	7588	97167	5.66%	0.794%
266	15.403	15.393	15.429	VV	3687	45274	2.64%	0.370%
267	15.449	15.429	15.460	VV	673	9708	0.57%	0.079%
268	15.477	15.460	15.486	VV	1671	17054	0.99%	0.139%
269	15.497	15.486	15.522	VV	2115	30027	1.75%	0.245%
270	15.547	15.522	15.562	VV	1870	23167	1.35%	0.189%
271	15.581	15.562	15.614	VV	1132	22418	1.31%	0.183%
272	15.647	15.614	15.654	PV	1403	13770	0.80%	0.113%
273	15.697	15.654	15.708	VV	957	27303	1.59%	0.223%
274	15.715	15.708	15.722	VV	822	5674	0.33%	0.046%
275	15.747	15.722	15.750	VV	744	10652	0.62%	0.087%
276	15.785	15.750	15.854	VV	47928	742346	43.25%	6.066%
277	15.860	15.854	15.877	VV	1098	7900	0.46%	0.065%
278	15.927	15.877	15.964	PV	6605	106053	6.18%	0.867%
279	15.981	15.964	15.985	VV	1143	11354	0.66%	0.093%
280	16.014	15.985	16.038	VV	3768	59544	3.47%	0.487%
281	16.059	16.038	16.070	VV	2356	31651	1.84%	0.259%
282	16.076	16.070	16.099	VV	1568	14327	0.83%	0.117%
283	16.113	16.099	16.132	PV	1110	12882	0.75%	0.105%
284	16.177	16.132	16.199	VV	2610	74378	4.33%	0.608%
285	16.261	16.238	16.279	VV	1195	17364	1.01%	0.142%
286	16.309	16.279	16.337	VV	2051	45393	2.64%	0.371%
287	16.347	16.337	16.370	VV	1340	22401	1.31%	0.183%
288	16.384	16.370	16.392	VV	935	12712	0.74%	0.104%
289	16.434	16.392	16.478	VV	6126	123673	7.21%	1.011%
290	16.531	16.478	16.547	VV	660	27564	1.61%	0.225%
291	16.625	16.547	16.666	PV	2771	65051	3.79%	0.532%
292	16.735	16.666	16.767	VV	5197	138086	8.05%	1.128%
293	16.808	16.767	16.854	VV	8514	215129	12.53%	1.758%
294	16.912	16.854	16.972	PV	13732	337614	19.67%	2.759%
295	17.008	16.972	17.017	VV	4055	66102	3.85%	0.540%
296	17.043	17.017	17.052	VV	4741	82004	4.78%	0.670%
297	17.090	17.052	17.115	VV	5130	138822	8.09%	1.134%
298	17.134	17.115	17.146	VV	3225	42923	2.50%	0.351%
299	17.228	17.146	17.250	VV	8061	241666	14.08%	1.975%

					rteres				
300	17.287	17.250	17.329	VV	7758	145315	8.47%	1.187%	
301	17.389	17.329	17.407	PV	10466	185580	10.81%	1.516%	
302	17.423	17.407	17.481	VV	7883	196161	11.43%	1.603%	
					Sum of corrected areas:	12238699			

FG061325.M Thu Jul 03 01:54:55 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-63	SDG No.:	Q2458
Lab Sample ID:	Q2458-08	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	86.4
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG016203.D	1	07/02/25 09:17	07/02/25 16:36	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	6010		195	1930	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.2		37 - 130	51%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016203.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 16:36
Operator : YP\AJ
Sample : Q2458-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-63

Integration File: autoint1.e
Quant Time: Jul 03 01:23:08 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	1191592	10.158 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

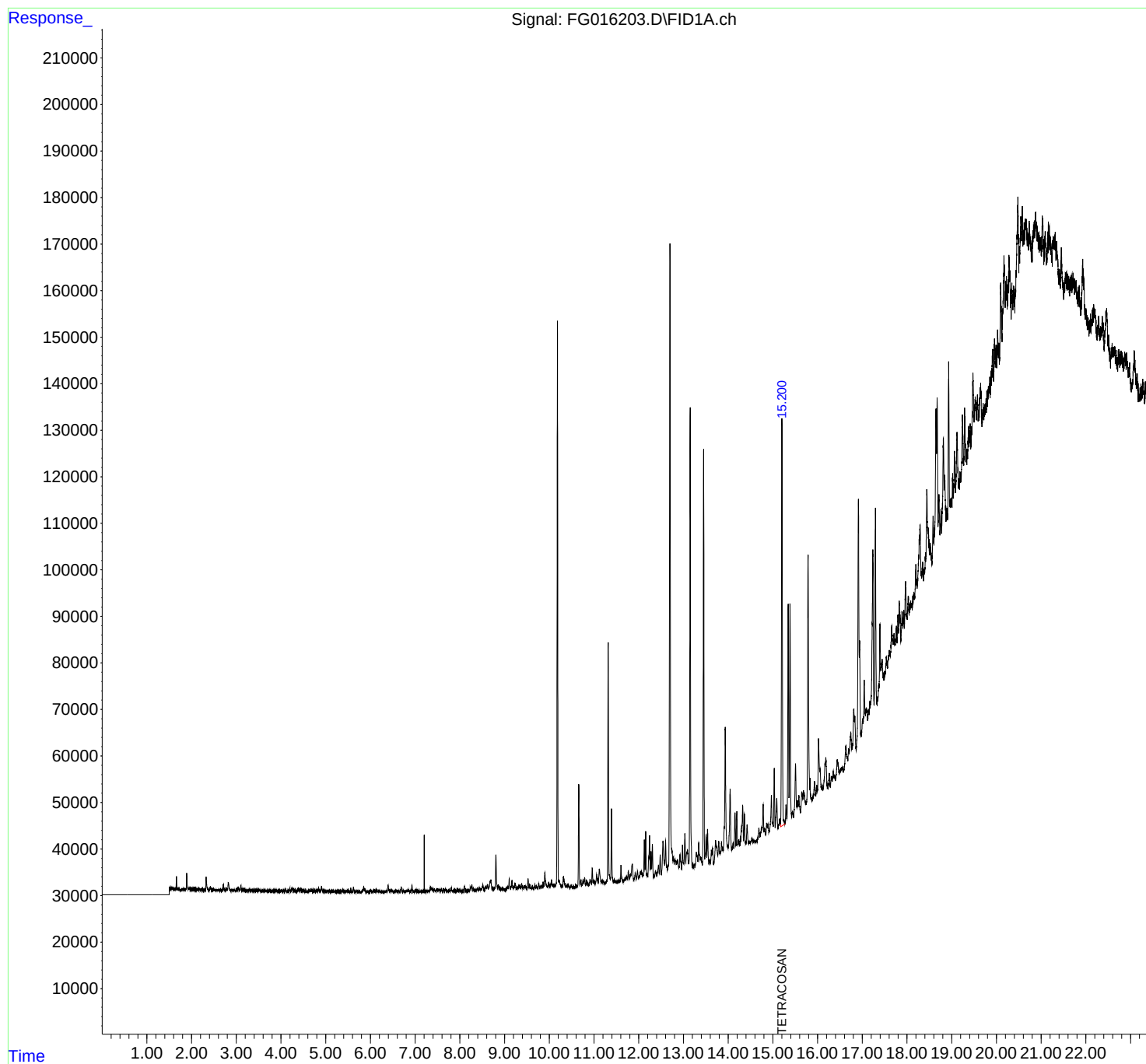
(m)=manual int.

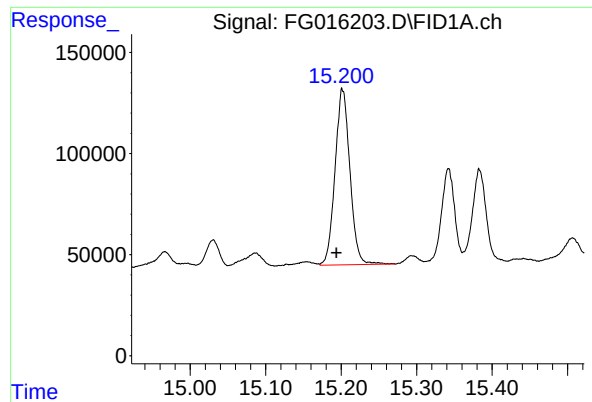
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016203.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 16:36
Operator : YP\AJ
Sample : Q2458-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-63

Integration File: autoint1.e
Quant Time: Jul 03 01:23:08 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.: 15.202 min
Delta R.T.: 0.008 min
Response: 1191592
Conc: 10.16 ug/ml

Instrument :
FID_G
ClientSampleId :
TP-63

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016203.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 16:36
Sample : Q2458-08
Misc :
ALS Vial : 22 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	4.512	4.500	4.518	BV	80	448	0.02%	0.002%
2	4.537	4.518	4.582	PV	208	4094	0.22%	0.019%
3	4.593	4.582	4.602	PV	136	1034	0.06%	0.005%
4	4.634	4.602	4.658	VV	310	5960	0.33%	0.028%
5	4.673	4.658	4.690	VV	499	5452	0.30%	0.025%
6	4.711	4.690	4.734	VV	310	4877	0.27%	0.023%
7	4.748	4.734	4.767	VV	230	3528	0.19%	0.016%
8	4.771	4.767	4.784	VV	124	1184	0.06%	0.005%
9	4.804	4.784	4.820	VV	475	6267	0.34%	0.029%
10	4.839	4.820	4.875	VV	657	10920	0.60%	0.051%
11	4.880	4.875	4.885	VV	168	891	0.05%	0.004%
12	4.906	4.885	4.930	VV	1173	16912	0.93%	0.078%
13	4.934	4.930	4.945	VV	330	2421	0.13%	0.011%
14	4.958	4.945	4.979	VV	288	3986	0.22%	0.018%
15	4.988	4.979	5.015	VV	217	3297	0.18%	0.015%
16	5.039	5.015	5.064	VV	383	6250	0.34%	0.029%
17	5.083	5.064	5.107	VV	260	4391	0.24%	0.020%
18	5.121	5.107	5.146	VV	264	4404	0.24%	0.020%
19	5.148	5.146	5.163	VV	196	1583	0.09%	0.007%
20	5.171	5.163	5.185	VV	252	2086	0.11%	0.010%
21	5.193	5.185	5.204	VV	244	1704	0.09%	0.008%
22	5.207	5.204	5.215	VV	142	925	0.05%	0.004%
23	5.222	5.215	5.243	VV	199	2157	0.12%	0.010%
24	5.256	5.243	5.266	VV	166	1641	0.09%	0.008%
25	5.295	5.266	5.325	VV	228	5843	0.32%	0.027%
26	5.328	5.325	5.348	VV	200	1927	0.11%	0.009%
27	5.378	5.348	5.408	VV	450	8861	0.49%	0.041%
28	5.411	5.408	5.418	VV	228	1159	0.06%	0.005%
29	5.430	5.418	5.456	VV	267	4023	0.22%	0.019%
30	5.486	5.456	5.516	VV	346	8650	0.47%	0.040%
31	5.525	5.516	5.541	VV	197	1916	0.11%	0.009%
32	5.561	5.541	5.574	VV	824	3517	0.19%	0.016%
33	5.578	5.574	5.582	VV	202	702	0.04%	0.003%
34	5.620	5.582	5.643	VV	1140	15149	0.83%	0.070%
35	5.657	5.643	5.677	VV	251	3077	0.17%	0.014%
36	5.694	5.677	5.716	VV	399	5084	0.28%	0.024%

					rteres			
37	5.727	5.716	5.738	VV	211	2146	0.12%	0.010%
38	5.742	5.738	5.753	VV	217	1425	0.08%	0.007%
39	5.757	5.753	5.797	VV	197	3175	0.17%	0.015%
40	5.817	5.797	5.828	PV	393	4170	0.23%	0.019%
41	5.849	5.828	5.862	VV	1338	14667	0.80%	0.068%
42	5.875	5.862	5.908	VV	837	11460	0.63%	0.053%
43	5.919	5.908	5.924	VV	227	1835	0.10%	0.009%
44	5.940	5.924	5.979	VV	328	6265	0.34%	0.029%
45	5.985	5.979	5.990	VV	190	953	0.05%	0.004%
46	6.009	5.990	6.031	VV	471	7348	0.40%	0.034%
47	6.035	6.031	6.040	VV	193	912	0.05%	0.004%
48	6.066	6.040	6.082	VV	424	7486	0.41%	0.035%
49	6.090	6.082	6.111	VV	432	5290	0.29%	0.025%
50	6.133	6.111	6.169	VV	629	11898	0.65%	0.055%
51	6.187	6.169	6.209	VV	444	6360	0.35%	0.029%
52	6.212	6.209	6.219	VV	255	772	0.04%	0.004%
53	6.229	6.219	6.241	VV	253	1724	0.09%	0.008%
54	6.256	6.241	6.280	VV	236	3162	0.17%	0.015%
55	6.291	6.280	6.318	VV	215	3350	0.18%	0.016%
56	6.331	6.318	6.341	VV	242	2544	0.14%	0.012%
57	6.359	6.341	6.376	VV	406	5414	0.30%	0.025%
58	6.395	6.376	6.434	VV	1631	23739	1.30%	0.110%
59	6.466	6.434	6.491	VV	674	12308	0.68%	0.057%
60	6.497	6.491	6.523	VV	288	3412	0.19%	0.016%
61	6.543	6.523	6.551	VV	237	2666	0.15%	0.012%
62	6.573	6.551	6.595	VV	529	8947	0.49%	0.041%
63	6.599	6.595	6.611	VV	399	1578	0.09%	0.007%
64	6.653	6.611	6.665	VV	294	5706	0.31%	0.026%
65	6.689	6.665	6.722	VV	1159	16300	0.89%	0.076%
66	6.739	6.722	6.758	VV	405	5819	0.32%	0.027%
67	6.767	6.758	6.771	VV	204	1389	0.08%	0.006%
68	6.775	6.771	6.791	VV	278	2278	0.13%	0.011%
69	6.804	6.791	6.825	VV	399	5411	0.30%	0.025%
70	6.853	6.825	6.871	VV	556	9473	0.52%	0.044%
71	6.873	6.871	6.896	VV	257	2942	0.16%	0.014%
72	6.903	6.896	6.907	VV	270	1264	0.07%	0.006%
73	6.928	6.907	6.963	VV	1539	18096	0.99%	0.084%
74	6.968	6.963	6.979	VV	160	931	0.05%	0.004%
75	7.008	6.979	7.035	VV	482	7969	0.44%	0.037%
76	7.052	7.035	7.079	VV	442	6753	0.37%	0.031%
77	7.084	7.079	7.098	VV	148	583	0.03%	0.003%
78	7.114	7.098	7.140	PV	237	3448	0.19%	0.016%
79	7.145	7.140	7.150	VV	156	968	0.05%	0.004%
80	7.154	7.150	7.162	VV	170	784	0.04%	0.004%
81	7.180	7.162	7.201	VV	293	5201	0.29%	0.024%
82	7.203	7.201	7.230	VV	8686	9873	0.54%	0.046%
83	7.241	7.230	7.251	VV	194	1821	0.10%	0.008%
84	7.262	7.251	7.282	VV	213	2801	0.15%	0.013%
85	7.308	7.282	7.321	VV	253	4289	0.24%	0.020%
86	7.342	7.321	7.388	VV	1011	25308	1.39%	0.117%
87	7.393	7.388	7.414	VV	506	6453	0.35%	0.030%
88	7.432	7.414	7.461	VV	462	8845	0.49%	0.041%
89	7.493	7.461	7.512	VV	779	11710	0.64%	0.054%

					rteres			
90	7.526	7.512	7.563	VV	578	8900	0.49%	0.041%
91	7.582	7.563	7.619	VV	561	9790	0.54%	0.045%
92	7.636	7.619	7.654	VV	723	7567	0.42%	0.035%
93	7.675	7.654	7.694	VV	577	7652	0.42%	0.035%
94	7.707	7.694	7.737	VV	457	5320	0.29%	0.025%
95	7.757	7.737	7.778	PV	293	4079	0.22%	0.019%
96	7.807	7.778	7.842	VV	738	11550	0.63%	0.054%
97	7.846	7.842	7.851	VV	105	439	0.02%	0.002%
98	7.865	7.851	7.875	VV	152	1868	0.10%	0.009%
99	7.881	7.875	7.894	VV	117	1152	0.06%	0.005%
100	7.899	7.894	7.923	VB	122	990	0.05%	0.005%
101	7.941	7.925	7.957	BV	192	2262	0.12%	0.010%
102	7.983	7.957	8.014	VV	326	5301	0.29%	0.025%
103	8.024	8.014	8.040	VV	80	933	0.05%	0.004%
104	8.052	8.040	8.059	PV	125	798	0.04%	0.004%
105	8.101	8.059	8.140	VV	1130	15351	0.84%	0.071%
106	8.150	8.140	8.167	VV	179	1803	0.10%	0.008%
107	8.176	8.167	8.193	VV	224	1839	0.10%	0.009%
108	8.200	8.193	8.215	VV	144	1341	0.07%	0.006%
109	8.239	8.215	8.251	PV	893	12161	0.67%	0.056%
110	8.269	8.251	8.289	VV	1440	18802	1.03%	0.087%
111	8.298	8.289	8.329	VV	416	5817	0.32%	0.027%
112	8.339	8.329	8.359	VV	374	3317	0.18%	0.015%
113	8.389	8.359	8.395	VV	445	5382	0.30%	0.025%
114	8.397	8.395	8.411	VV	462	3389	0.19%	0.016%
115	8.439	8.411	8.458	VV	586	11630	0.64%	0.054%
116	8.465	8.458	8.481	VV	373	4511	0.25%	0.021%
117	8.513	8.481	8.542	VV	1329	23751	1.30%	0.110%
118	8.545	8.542	8.550	VV	282	1132	0.06%	0.005%
119	8.584	8.550	8.600	VV	805	17036	0.93%	0.079%
120	8.617	8.600	8.634	VV	1258	17016	0.93%	0.079%
121	8.674	8.634	8.682	VV	1983	32045	1.76%	0.149%
122	8.694	8.682	8.729	VV	2365	35422	1.94%	0.164%
123	8.737	8.729	8.756	VV	470	6395	0.35%	0.030%
124	8.776	8.756	8.780	VV	703	6916	0.38%	0.032%
125	8.806	8.780	8.846	VV	7684	105074	5.77%	0.487%
126	8.862	8.846	8.885	VV	1294	17648	0.97%	0.082%
127	8.888	8.885	8.918	VV	482	6885	0.38%	0.032%
128	8.942	8.918	8.960	VV	385	6553	0.36%	0.030%
129	8.968	8.960	8.975	VV	260	1986	0.11%	0.009%
130	8.990	8.975	9.013	VV	236	3586	0.20%	0.017%
131	9.022	9.013	9.025	PV	160	961	0.05%	0.004%
132	9.060	9.025	9.078	VV	679	12884	0.71%	0.060%
133	9.106	9.078	9.130	VV	2476	34518	1.89%	0.160%
134	9.133	9.130	9.139	VV	506	2366	0.13%	0.011%
135	9.166	9.139	9.186	VV	2095	31543	1.73%	0.146%
136	9.190	9.186	9.214	VV	634	8886	0.49%	0.041%
137	9.238	9.214	9.280	VV	1448	26928	1.48%	0.125%
138	9.291	9.280	9.307	VV	506	7124	0.39%	0.033%
139	9.323	9.307	9.335	VV	714	9397	0.52%	0.044%
140	9.351	9.335	9.365	VV	766	10922	0.60%	0.051%
141	9.383	9.365	9.407	VV	1344	16647	0.91%	0.077%

					rteres			
142	9.441	9.407	9.462	VV	872	16867	0.93%	0.078%
143	9.471	9.462	9.489	VV	673	7275	0.40%	0.034%
144	9.498	9.489	9.503	VV	293	1815	0.10%	0.008%
145	9.525	9.503	9.547	VV	2277	29496	1.62%	0.137%
146	9.561	9.547	9.594	VV	975	13854	0.76%	0.064%
147	9.621	9.594	9.644	VV	619	8475	0.47%	0.039%
148	9.679	9.644	9.696	VV	879	10844	0.60%	0.050%
149	9.710	9.696	9.733	VV	807	9016	0.49%	0.042%
150	9.764	9.733	9.790	VV	1151	17813	0.98%	0.083%
151	9.816	9.790	9.835	VV	752	12296	0.67%	0.057%
152	9.861	9.835	9.880	VV	1489	21690	1.19%	0.101%
153	9.901	9.880	9.962	VV	3436	64419	3.53%	0.299%
154	9.983	9.962	10.012	VV	1188	21500	1.18%	0.100%
155	10.047	10.012	10.073	VV	1711	33504	1.84%	0.155%
156	10.087	10.073	10.105	VV	829	12361	0.68%	0.057%
157	10.111	10.105	10.127	VV	758	7709	0.42%	0.036%
158	10.182	10.127	10.216	VV	121497	1245669	68.35%	5.773%
159	10.226	10.216	10.270	VV	1633	29920	1.64%	0.139%
160	10.279	10.270	10.294	VV	438	5180	0.28%	0.024%
161	10.316	10.294	10.368	VV	2372	51032	2.80%	0.237%
162	10.389	10.368	10.403	VV	533	6982	0.38%	0.032%
163	10.420	10.403	10.461	VV	768	11172	0.61%	0.052%
164	10.487	10.461	10.523	PV	397	6495	0.36%	0.030%
165	10.530	10.523	10.553	VV	224	1871	0.10%	0.009%
166	10.559	10.553	10.566	VV	130	630	0.03%	0.003%
167	10.593	10.566	10.609	VV	386	5241	0.29%	0.024%
168	10.615	10.609	10.620	VV	189	1056	0.06%	0.005%
169	10.659	10.620	10.689	VV	21875	232557	12.76%	1.078%
170	10.705	10.689	10.728	VV	1395	19258	1.06%	0.089%
171	10.758	10.728	10.776	VV	1355	23174	1.27%	0.107%
172	10.790	10.776	10.813	VV	1861	23343	1.28%	0.108%
173	10.831	10.813	10.847	VV	1265	15726	0.86%	0.073%
174	10.851	10.847	10.886	VV	619	9057	0.50%	0.042%
175	10.912	10.886	10.941	VV	1407	26249	1.44%	0.122%
176	10.960	10.941	11.000	VV	3753	55312	3.03%	0.256%
177	11.011	11.000	11.026	VV	925	10525	0.58%	0.049%
178	11.059	11.026	11.076	VV	2335	37466	2.06%	0.174%
179	11.079	11.076	11.095	VV	1345	10684	0.59%	0.050%
180	11.120	11.095	11.155	VV	3449	68031	3.73%	0.315%
181	11.158	11.155	11.176	VV	772	8304	0.46%	0.038%
182	11.212	11.176	11.237	VV	840	20481	1.12%	0.095%
183	11.246	11.237	11.267	VV	375	5793	0.32%	0.027%
184	11.283	11.267	11.293	VV	1013	10220	0.56%	0.047%
185	11.316	11.293	11.362	VV	51822	568939	31.22%	2.637%
186	11.391	11.362	11.436	VV	16141	195769	10.74%	0.907%
187	11.451	11.436	11.480	VV	630	14170	0.78%	0.066%
188	11.487	11.480	11.506	VV	532	6338	0.35%	0.029%
189	11.514	11.506	11.546	VV	565	7663	0.42%	0.036%
190	11.562	11.546	11.584	VV	610	9310	0.51%	0.043%
191	11.603	11.584	11.648	VV	3830	49697	2.73%	0.230%
192	11.732	11.648	11.751	PV	1135	41657	2.29%	0.193%
193	11.767	11.751	11.786	VV	2311	28874	1.58%	0.134%
194	11.856	11.786	11.890	VV	3619	103567	5.68%	0.480%

					rteres			
195	11.924	11.890	11.945	VV	1578	25669	1.41%	0.119%
196	11.973	11.945	11.995	VV	1949	31166	1.71%	0.144%
197	12.011	11.995	12.023	VV	979	11896	0.65%	0.055%
198	12.052	12.023	12.099	VV	1688	56500	3.10%	0.262%
199	12.126	12.099	12.141	VV	8439	99757	5.47%	0.462%
200	12.156	12.141	12.178	VV	10080	112005	6.15%	0.519%
201	12.188	12.178	12.205	VV	967	10449	0.57%	0.048%
202	12.242	12.205	12.260	VV	9094	150572	8.26%	0.698%
203	12.275	12.260	12.289	VV	5651	64497	3.54%	0.299%
204	12.306	12.289	12.338	VV	7101	83124	4.56%	0.385%
205	12.349	12.338	12.354	PV	239	1179	0.06%	0.005%
206	12.373	12.354	12.401	VV	1135	17893	0.98%	0.083%
207	12.442	12.401	12.461	VV	2350	41963	2.30%	0.194%
208	12.481	12.461	12.502	VV	4499	52790	2.90%	0.245%
209	12.543	12.502	12.581	VV	7376	159986	8.78%	0.741%
210	12.601	12.581	12.642	VV	7309	120108	6.59%	0.557%
211	12.664	12.642	12.668	VV	1928	22773	1.25%	0.106%
212	12.700	12.668	12.765	VV	135149	1822489	100.00%	8.446%
213	12.778	12.765	12.794	VV	3443	48332	2.65%	0.224%
214	12.811	12.794	12.841	VV	2922	66231	3.63%	0.307%
215	12.853	12.841	12.867	VV	2285	32171	1.77%	0.149%
216	12.874	12.867	12.895	VV	2217	28404	1.56%	0.132%
217	12.922	12.895	12.959	VV	3689	70123	3.85%	0.325%
218	12.980	12.959	13.005	VV	5614	73812	4.05%	0.342%
219	13.033	13.005	13.055	VV	7931	117080	6.42%	0.543%
220	13.089	13.055	13.114	VV	4222	111733	6.13%	0.518%
221	13.151	13.114	13.196	VV	99215	1154587	63.35%	5.351%
222	13.211	13.196	13.230	VV	1057	12765	0.70%	0.059%
223	13.249	13.230	13.262	VV	873	11677	0.64%	0.054%
224	13.289	13.262	13.324	VV	3378	79116	4.34%	0.367%
225	13.341	13.324	13.382	VV	5298	102705	5.64%	0.476%
226	13.391	13.382	13.423	VV	1999	32480	1.78%	0.151%
227	13.452	13.423	13.476	VV	89322	956923	52.51%	4.435%
228	13.507	13.476	13.524	VV	6658	97854	5.37%	0.454%
229	13.539	13.524	13.569	VV	7787	99909	5.48%	0.463%
230	13.590	13.569	13.604	VV	1091	15514	0.85%	0.072%
231	13.624	13.604	13.638	VV	3096	38952	2.14%	0.181%
232	13.650	13.638	13.677	VV	3534	48031	2.64%	0.223%
233	13.719	13.677	13.732	PV	4905	79466	4.36%	0.368%
234	13.737	13.732	13.767	VV	3544	56065	3.08%	0.260%
235	13.790	13.767	13.812	VV	4313	75101	4.12%	0.348%
236	13.851	13.812	13.869	VV	3965	81670	4.48%	0.379%
237	13.880	13.869	13.892	VV	2596	32756	1.80%	0.152%
238	13.934	13.892	13.995	VV	27800	527575	28.95%	2.445%
239	13.997	13.995	14.002	VV	1941	7624	0.42%	0.035%
240	14.043	14.002	14.081	VV	14444	270751	14.86%	1.255%
241	14.112	14.081	14.130	VV	2417	50628	2.78%	0.235%
242	14.153	14.130	14.175	VV	8668	125127	6.87%	0.580%
243	14.193	14.175	14.221	VV	8772	117429	6.44%	0.544%
244	14.237	14.221	14.259	VV	2494	41903	2.30%	0.194%
245	14.324	14.259	14.344	VV	9446	219747	12.06%	1.018%
246	14.364	14.344	14.396	VV	7321	106431	5.84%	0.493%

					rteres			
247	14.423	14.396	14.457	VV	4796	82323	4.52%	0.382%
248	14.470	14.457	14.489	VV	839	12846	0.70%	0.060%
249	14.494	14.489	14.499	VV	533	3089	0.17%	0.014%
250	14.527	14.499	14.543	VV	1411	24494	1.34%	0.114%
251	14.547	14.543	14.565	VV	757	7396	0.41%	0.034%
252	14.574	14.565	14.600	VV	721	9992	0.55%	0.046%
253	14.603	14.600	14.619	VV	495	2354	0.13%	0.011%
254	14.634	14.619	14.650	PV	521	4635	0.25%	0.021%
255	14.688	14.650	14.708	VV	2660	42556	2.34%	0.197%
256	14.782	14.708	14.804	VV	7039	157438	8.64%	0.730%
257	14.815	14.804	14.837	VV	1904	22572	1.24%	0.105%
258	14.863	14.837	14.877	VV	2751	40469	2.22%	0.188%
259	14.889	14.877	14.918	VV	2261	35331	1.94%	0.164%
260	14.966	14.918	14.987	VV	7961	134549	7.38%	0.624%
261	14.996	14.987	15.008	VV	2003	21779	1.20%	0.101%
262	15.030	15.008	15.051	VV	13440	161624	8.87%	0.749%
263	15.086	15.051	15.113	VV	6501	114029	6.26%	0.528%
264	15.154	15.113	15.172	VV	1880	32373	1.78%	0.150%
265	15.202	15.172	15.272	VV	85993	1192428	65.43%	5.526%
266	15.293	15.272	15.311	PV	4008	47850	2.63%	0.222%
267	15.342	15.311	15.362	VV	46780	568863	31.21%	2.636%
268	15.383	15.362	15.421	VV	46051	584862	32.09%	2.711%
269	15.442	15.421	15.462	VV	1608	24751	1.36%	0.115%
270	15.507	15.462	15.531	VV	11326	189807	10.41%	0.880%
271	15.549	15.531	15.567	VV	3081	50311	2.76%	0.233%
272	15.581	15.567	15.619	VV	4038	59795	3.28%	0.277%
273	15.648	15.619	15.672	PV	4248	85666	4.70%	0.397%
274	15.685	15.672	15.735	VV	4180	102784	5.64%	0.476%
275	15.787	15.735	15.853	VV	53957	872542	47.88%	4.044%
276	15.860	15.853	15.868	VV	1079	9460	0.52%	0.044%
277	15.871	15.868	15.877	VV	1045	3647	0.20%	0.017%
278	15.931	15.877	15.960	VV	4202	93924	5.15%	0.435%
279	15.979	15.960	15.991	VV	2782	35952	1.97%	0.167%
280	16.022	15.991	16.047	VV	12129	219479	12.04%	1.017%
281	16.053	16.047	16.092	VV	5765	93301	5.12%	0.432%
282	16.104	16.092	16.121	VV	1967	24379	1.34%	0.113%
283	16.184	16.121	16.229	VV	7124	215584	11.83%	0.999%
284	16.259	16.229	16.284	VV	3241	47723	2.62%	0.221%
285	16.307	16.284	16.329	PV	2034	32725	1.80%	0.152%
286	16.347	16.329	16.362	VV	2686	36331	1.99%	0.168%
287	16.377	16.362	16.399	VV	1691	22798	1.25%	0.106%
288	16.440	16.399	16.485	VV	4257	111783	6.13%	0.518%
289	16.493	16.485	16.498	VV	1325	7180	0.39%	0.033%
290	16.502	16.498	16.520	VV	1178	13692	0.75%	0.063%
291	16.533	16.520	16.542	VV	1583	16439	0.90%	0.076%
292	16.551	16.542	16.574	VV	1601	17370	0.95%	0.080%
293	16.586	16.574	16.593	PV	526	4134	0.23%	0.019%
294	16.633	16.593	16.678	VV	4815	120052	6.59%	0.556%
295	16.693	16.678	16.707	VV	3155	40661	2.23%	0.188%
296	16.742	16.707	16.763	VV	5894	126094	6.92%	0.584%
297	16.810	16.763	16.826	VV	9657	201162	11.04%	0.932%
298	16.834	16.826	16.862	VV	7791	90162	4.95%	0.418%
299	16.914	16.862	16.932	PV	52996	787831	43.23%	3.651%

					rteres			
300	16.941	16.932	16.977	VV	21916	256736	14.09%	1.190%
301	17.008	16.977	17.020	VV	3348	61268	3.36%	0.284%
302	17.043	17.020	17.070	VV	11382	185179	10.16%	0.858%
303	17.088	17.070	17.124	VV	4440	102832	5.64%	0.477%
304	17.136	17.124	17.154	VV	2974	40526	2.22%	0.188%
305	17.167	17.154	17.177	VV	4206	47581	2.61%	0.221%
306	17.236	17.177	17.265	VV	34460	665348	36.51%	3.084%
307	17.294	17.265	17.332	VV	42944	555797	30.50%	2.576%
308	17.394	17.332	17.412	PV	15247	244426	13.41%	1.133%
309	17.428	17.412	17.434	VV	5318	65660	3.60%	0.304%
310	17.444	17.434	17.465	VV	5735	72598	3.98%	0.336%
311	17.468	17.465	17.475	VV	1965	7225	0.40%	0.033%
312	17.481	17.475	17.487	VV	755	3532	0.19%	0.016%
					Sum of corrected areas:	21577221		

FG061325.M Thu Jul 03 01:55:39 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-59	SDG No.:	Q2458
Lab Sample ID:	Q2458-09	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	76.6
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
FG016204.D	1	07/02/25 09:17	07/02/25 17:06	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	2980		220	2170	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	10.5		37 - 130	53%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016204.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 17:06
Operator : YP\AJ
Sample : Q2458-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-59

Integration File: autoint1.e
Quant Time: Jul 03 01:23:20 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	1233935	10.519 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

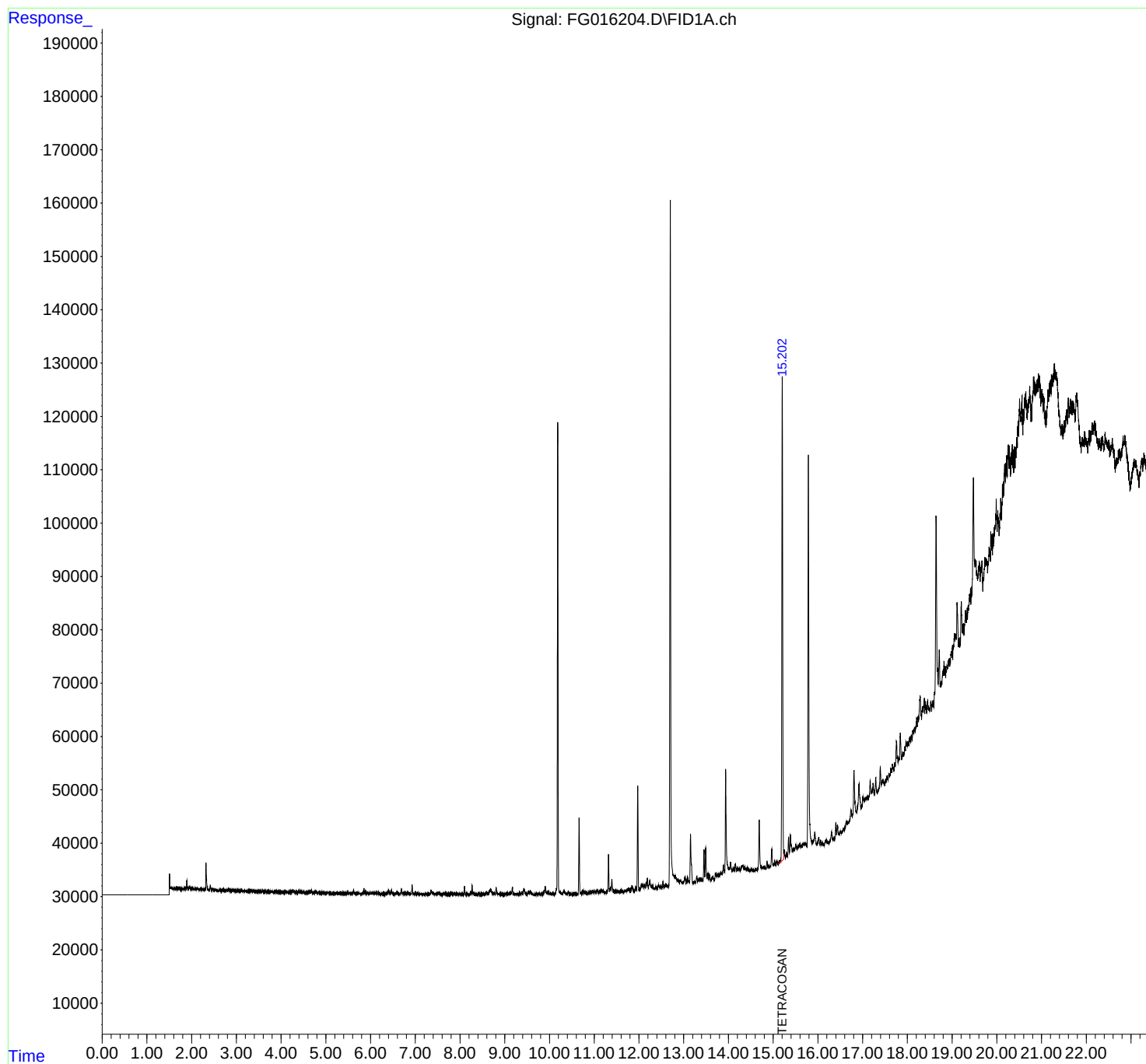
(m)=manual int.

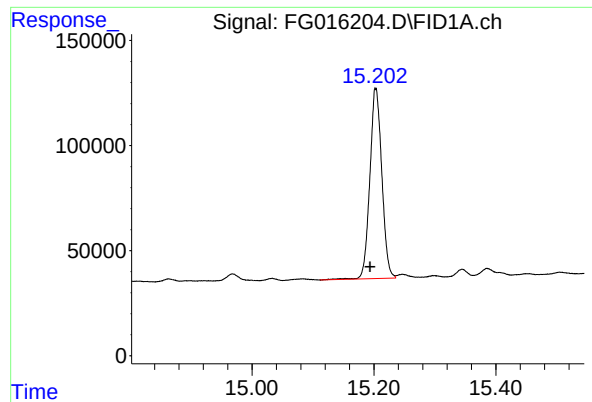
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016204.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 17:06
Operator : YP\AJ
Sample : Q2458-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TP-59

Integration File: autoint1.e
Quant Time: Jul 03 01:23:20 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: 1233935
Conc: 10.52 ug/ml

Instrument :
FID_G
ClientSampleId :
TP-59

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016204.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 17:06
Sample : Q2458-09
Misc :
ALS Vial : 23 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	4.547	4.523	4.558	BV	141	568	0.03%	0.006%
2	4.566	4.558	4.585	PV	114	995	0.06%	0.010%
3	4.603	4.585	4.610	PV	130	1599	0.10%	0.016%
4	4.614	4.610	4.620	VV	150	839	0.05%	0.008%
5	4.634	4.620	4.660	VV	276	4813	0.29%	0.047%
6	4.674	4.660	4.701	VV	483	6354	0.38%	0.062%
7	4.710	4.701	4.717	VV	192	1492	0.09%	0.015%
8	4.719	4.717	4.728	VV	215	1060	0.06%	0.010%
9	4.729	4.728	4.738	VV	175	659	0.04%	0.006%
10	4.745	4.738	4.760	VV	201	1734	0.10%	0.017%
11	4.770	4.760	4.784	VV	175	2207	0.13%	0.022%
12	4.796	4.784	4.811	VV	299	2498	0.15%	0.025%
13	4.814	4.811	4.827	VV	147	1172	0.07%	0.012%
14	4.842	4.827	4.864	VV	326	4006	0.24%	0.039%
15	4.870	4.864	4.895	VV	188	2127	0.13%	0.021%
16	4.904	4.895	4.925	VV	218	2445	0.15%	0.024%
17	4.935	4.925	4.943	VV	148	1046	0.06%	0.010%
18	4.960	4.943	4.970	VV	182	1660	0.10%	0.016%
19	4.972	4.970	4.976	VV	173	406	0.02%	0.004%
20	4.981	4.976	4.994	VV	131	944	0.06%	0.009%
21	4.999	4.994	5.012	VV	170	943	0.06%	0.009%
22	5.021	5.012	5.027	VV	158	784	0.05%	0.008%
23	5.031	5.027	5.036	VV	119	551	0.03%	0.005%
24	5.054	5.036	5.080	VV	204	3364	0.20%	0.033%
25	5.088	5.080	5.110	VV	177	1768	0.11%	0.017%
26	5.141	5.110	5.153	VV	176	2256	0.14%	0.022%
27	5.158	5.153	5.172	VV	136	990	0.06%	0.010%
28	5.181	5.172	5.194	PV	127	1298	0.08%	0.013%
29	5.197	5.194	5.215	VV	91	949	0.06%	0.009%
30	5.238	5.215	5.254	VV	281	1787	0.11%	0.018%
31	5.257	5.254	5.298	VV	132	1980	0.12%	0.019%
32	5.303	5.298	5.308	VV	121	533	0.03%	0.005%
33	5.315	5.308	5.327	VV	149	1100	0.07%	0.011%
34	5.333	5.327	5.342	VV	175	899	0.05%	0.009%
35	5.346	5.342	5.352	VV	117	534	0.03%	0.005%
36	5.364	5.352	5.370	VV	106	632	0.04%	0.006%

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37	5.387	5.370	5.403	VV	272	3256	0.20%	0.032%
38	5.437	5.403	5.453	VV	143	3397	0.20%	0.033%
39	5.457	5.453	5.461	VV	168	503	0.03%	0.005%
40	5.485	5.461	5.515	VV	406	5569	0.34%	0.055%
41	5.532	5.515	5.539	VV	141	1436	0.09%	0.014%
42	5.543	5.539	5.549	VV	148	622	0.04%	0.006%
43	5.551	5.549	5.562	VV	150	707	0.04%	0.007%
44	5.567	5.562	5.577	VV	126	677	0.04%	0.007%
45	5.582	5.577	5.592	PV	134	757	0.05%	0.007%
46	5.621	5.592	5.644	VV	876	9870	0.59%	0.097%
47	5.655	5.644	5.672	VV	167	1588	0.10%	0.016%
48	5.689	5.672	5.721	VV	130	2726	0.16%	0.027%
49	5.723	5.721	5.735	VV	133	656	0.04%	0.006%
50	5.744	5.735	5.779	VV	218	2872	0.17%	0.028%
51	5.781	5.779	5.797	VV	115	634	0.04%	0.006%
52	5.809	5.797	5.814	VV	190	1225	0.07%	0.012%
53	5.819	5.814	5.835	VV	267	2420	0.15%	0.024%
54	5.851	5.835	5.866	VV	1159	11250	0.68%	0.110%
55	5.881	5.866	5.912	VV	597	8596	0.52%	0.084%
56	5.925	5.912	5.933	VV	200	1729	0.10%	0.017%
57	5.940	5.933	5.947	VV	195	959	0.06%	0.009%
58	5.972	5.947	5.978	VV	256	2986	0.18%	0.029%
59	5.984	5.978	5.992	VV	232	1277	0.08%	0.013%
60	6.009	5.992	6.033	VV	239	4219	0.25%	0.041%
61	6.046	6.033	6.064	VV	308	3800	0.23%	0.037%
62	6.078	6.064	6.106	VV	336	5524	0.33%	0.054%
63	6.110	6.106	6.119	VV	184	1057	0.06%	0.010%
64	6.138	6.119	6.165	VV	369	5616	0.34%	0.055%
65	6.186	6.165	6.213	VV	391	5064	0.30%	0.050%
66	6.218	6.213	6.227	VV	64	468	0.03%	0.005%
67	6.249	6.227	6.254	VV	175	1623	0.10%	0.016%
68	6.258	6.254	6.263	VV	204	682	0.04%	0.007%
69	6.268	6.263	6.287	VV	163	1348	0.08%	0.013%
70	6.292	6.287	6.308	VV	137	1247	0.08%	0.012%
71	6.313	6.308	6.325	PV	124	725	0.04%	0.007%
72	6.332	6.325	6.345	VV	143	1200	0.07%	0.012%
73	6.357	6.345	6.378	VV	221	3462	0.21%	0.034%
74	6.401	6.378	6.449	VV	874	17652	1.06%	0.173%
75	6.466	6.449	6.502	VV	887	12517	0.75%	0.123%
76	6.505	6.502	6.537	VV	188	2454	0.15%	0.024%
77	6.548	6.537	6.553	VV	200	1247	0.08%	0.012%
78	6.582	6.553	6.617	VV	399	8325	0.50%	0.082%
79	6.629	6.617	6.633	VV	199	1555	0.09%	0.015%
80	6.638	6.633	6.647	VV	196	1353	0.08%	0.013%
81	6.652	6.647	6.665	VV	184	1748	0.11%	0.017%
82	6.691	6.665	6.723	VV	1130	16402	0.99%	0.161%
83	6.727	6.723	6.732	VV	207	984	0.06%	0.010%
84	6.743	6.732	6.758	VV	295	3135	0.19%	0.031%
85	6.770	6.758	6.785	VV	276	2927	0.18%	0.029%
86	6.810	6.785	6.843	VV	359	8290	0.50%	0.081%
87	6.847	6.843	6.852	VV	310	1423	0.09%	0.014%
88	6.856	6.852	6.878	VV	352	4151	0.25%	0.041%
89	6.881	6.878	6.905	VV	222	2767	0.17%	0.027%

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90	6.929	6.905	6.963	VV	1848	21360	1.29%	0.210%
91	6.967	6.963	6.975	VV	176	1052	0.06%	0.010%
92	6.980	6.975	6.987	VV	197	1020	0.06%	0.010%
93	6.988	6.987	6.994	VV	188	534	0.03%	0.005%
94	7.012	6.994	7.041	VV	280	3612	0.22%	0.035%
95	7.049	7.041	7.061	VV	171	1785	0.11%	0.018%
96	7.062	7.061	7.078	VV	268	1555	0.09%	0.015%
97	7.081	7.078	7.097	VV	90	797	0.05%	0.008%
98	7.116	7.097	7.162	VV	189	3416	0.21%	0.034%
99	7.178	7.162	7.185	PV	149	1185	0.07%	0.012%
100	7.195	7.185	7.217	VV	134	1736	0.10%	0.017%
101	7.227	7.217	7.248	VV	90	1277	0.08%	0.013%
102	7.254	7.248	7.270	VV	119	718	0.04%	0.007%
103	7.315	7.270	7.325	VV	157	2198	0.13%	0.022%
104	7.347	7.325	7.422	VV	835	22590	1.36%	0.222%
105	7.426	7.422	7.472	VV	248	4435	0.27%	0.044%
106	7.497	7.472	7.513	VV	312	4646	0.28%	0.046%
107	7.529	7.513	7.572	VV	465	7771	0.47%	0.076%
108	7.580	7.572	7.585	VV	114	651	0.04%	0.006%
109	7.594	7.585	7.602	VV	143	727	0.04%	0.007%
110	7.605	7.602	7.621	VV	65	529	0.03%	0.005%
111	7.640	7.621	7.653	PV	325	3174	0.19%	0.031%
112	7.677	7.653	7.692	VV	298	4034	0.24%	0.040%
113	7.699	7.692	7.705	VV	210	1159	0.07%	0.011%
114	7.710	7.705	7.738	VV	201	2397	0.14%	0.024%
115	7.760	7.738	7.779	VV	181	2844	0.17%	0.028%
116	7.807	7.779	7.825	VV	281	4785	0.29%	0.047%
117	7.832	7.825	7.852	VV	202	2040	0.12%	0.020%
118	7.867	7.852	7.904	VV	191	3825	0.23%	0.038%
119	7.928	7.904	7.931	VV	202	2241	0.13%	0.022%
120	7.942	7.931	7.960	VV	264	2963	0.18%	0.029%
121	7.968	7.960	7.981	VV	214	1674	0.10%	0.016%
122	8.025	7.981	8.037	VV	173	2586	0.16%	0.025%
123	8.044	8.037	8.070	VV	114	1770	0.11%	0.017%
124	8.074	8.070	8.078	VV	89	301	0.02%	0.003%
125	8.101	8.078	8.129	VV	1616	17846	1.07%	0.175%
126	8.132	8.129	8.138	VV	117	401	0.02%	0.004%
127	8.157	8.138	8.167	VV	179	1826	0.11%	0.018%
128	8.170	8.167	8.182	VV	103	616	0.04%	0.006%
129	8.234	8.182	8.252	VV	673	10057	0.61%	0.099%
130	8.271	8.252	8.300	VV	1831	20993	1.26%	0.206%
131	8.308	8.300	8.321	VV	239	2144	0.13%	0.021%
132	8.325	8.321	8.340	VV	86	723	0.04%	0.007%
133	8.349	8.340	8.357	VV	144	812	0.05%	0.008%
134	8.362	8.357	8.372	VV	44	522	0.03%	0.005%
135	8.389	8.372	8.410	VV	151	2466	0.15%	0.024%
136	8.415	8.410	8.441	VV	188	2232	0.13%	0.022%
137	8.447	8.441	8.462	VV	168	1436	0.09%	0.014%
138	8.469	8.462	8.485	VV	156	1912	0.12%	0.019%
139	8.490	8.485	8.493	VV	162	708	0.04%	0.007%
140	8.518	8.493	8.560	VV	313	6752	0.41%	0.066%
141	8.593	8.560	8.608	VV	498	7391	0.44%	0.073%

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142	8.621	8.608	8.637	VV	343	4580	0.28%	0.045%
143	8.663	8.637	8.687	VV	906	19870	1.20%	0.195%
144	8.696	8.687	8.731	VV	901	14886	0.90%	0.146%
145	8.756	8.731	8.780	VV	312	6830	0.41%	0.067%
146	8.783	8.780	8.787	VV	183	695	0.04%	0.007%
147	8.809	8.787	8.856	VV	1366	21831	1.31%	0.214%
148	8.872	8.856	8.881	VV	282	2981	0.18%	0.029%
149	8.897	8.881	8.912	VV	206	2682	0.16%	0.026%
150	8.934	8.912	8.954	PV	231	3205	0.19%	0.031%
151	8.975	8.954	8.980	VV	113	1032	0.06%	0.010%
152	8.999	8.980	9.019	VV	255	3490	0.21%	0.034%
153	9.022	9.019	9.026	VV	267	881	0.05%	0.009%
154	9.028	9.026	9.041	VV	239	1538	0.09%	0.015%
155	9.063	9.041	9.086	VV	331	6749	0.41%	0.066%
156	9.090	9.086	9.097	VV	282	1704	0.10%	0.017%
157	9.110	9.097	9.123	VV	420	4876	0.29%	0.048%
158	9.138	9.123	9.147	VV	330	3977	0.24%	0.039%
159	9.170	9.147	9.191	VV	1446	17936	1.08%	0.176%
160	9.196	9.191	9.219	VV	259	3216	0.19%	0.032%
161	9.229	9.219	9.235	VV	227	1828	0.11%	0.018%
162	9.239	9.235	9.275	VV	212	3257	0.20%	0.032%
163	9.301	9.275	9.309	VV	188	2470	0.15%	0.024%
164	9.325	9.309	9.365	VV	299	6783	0.41%	0.067%
165	9.386	9.365	9.400	VV	657	7645	0.46%	0.075%
166	9.426	9.400	9.472	VV	1170	24784	1.49%	0.243%
167	9.475	9.472	9.488	VV	270	1591	0.10%	0.016%
168	9.497	9.488	9.511	VV	155	2005	0.12%	0.020%
169	9.526	9.511	9.549	VV	658	9353	0.56%	0.092%
170	9.563	9.549	9.574	VV	579	6895	0.41%	0.068%
171	9.582	9.574	9.613	VV	610	7767	0.47%	0.076%
172	9.617	9.613	9.624	VV	181	790	0.05%	0.008%
173	9.627	9.624	9.659	VV	162	1878	0.11%	0.018%
174	9.664	9.659	9.667	VV	84	365	0.02%	0.004%
175	9.673	9.667	9.699	VV	189	1739	0.10%	0.017%
176	9.712	9.699	9.735	VV	239	3600	0.22%	0.035%
177	9.744	9.735	9.756	VV	189	1682	0.10%	0.017%
178	9.767	9.756	9.802	VV	265	3172	0.19%	0.031%
179	9.820	9.802	9.845	PV	202	2507	0.15%	0.025%
180	9.871	9.845	9.886	VV	546	8368	0.50%	0.082%
181	9.905	9.886	9.934	VV	1630	26281	1.58%	0.258%
182	9.940	9.934	9.969	VV	398	6331	0.38%	0.062%
183	9.979	9.969	10.012	VV	686	7385	0.44%	0.072%
184	10.044	10.012	10.081	VV	256	7567	0.46%	0.074%
185	10.092	10.081	10.122	VV	274	4102	0.25%	0.040%
186	10.153	10.122	10.160	VV	1173	13143	0.79%	0.129%
187	10.184	10.160	10.242	VV	88468	902646	54.30%	8.861%
188	10.248	10.242	10.262	VV	425	4268	0.26%	0.042%
189	10.267	10.262	10.278	VV	240	1448	0.09%	0.014%
190	10.319	10.278	10.369	VV	804	20817	1.25%	0.204%
191	10.384	10.369	10.394	VV	205	2172	0.13%	0.021%
192	10.397	10.394	10.405	VV	204	1210	0.07%	0.012%
193	10.419	10.405	10.445	VV	629	7671	0.46%	0.075%
194	10.459	10.445	10.484	VV	166	2229	0.13%	0.022%

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195	10.491	10.484	10.508	VV	130	916	0.06%	0.009%
196	10.522	10.508	10.541	PV	130	1695	0.10%	0.017%
197	10.546	10.541	10.551	VV	83	356	0.02%	0.003%
198	10.564	10.551	10.584	VV	112	1744	0.10%	0.017%
199	10.589	10.584	10.606	VV	145	1218	0.07%	0.012%
200	10.619	10.606	10.636	VV	171	1519	0.09%	0.015%
201	10.662	10.636	10.686	VV	14358	147727	8.89%	1.450%
202	10.709	10.686	10.724	VV	373	5840	0.35%	0.057%
203	10.756	10.724	10.780	VV	672	12717	0.77%	0.125%
204	10.794	10.780	10.814	VV	501	6499	0.39%	0.064%
205	10.834	10.814	10.857	VV	251	4133	0.25%	0.041%
206	10.875	10.857	10.881	VV	306	3372	0.20%	0.033%
207	10.884	10.881	10.895	VV	192	1369	0.08%	0.013%
208	10.918	10.895	10.935	VV	409	7327	0.44%	0.072%
209	10.963	10.935	10.980	VV	487	9107	0.55%	0.089%
210	10.985	10.980	10.997	VV	334	2636	0.16%	0.026%
211	11.013	10.997	11.029	VV	540	6690	0.40%	0.066%
212	11.037	11.029	11.041	VV	264	1585	0.10%	0.016%
213	11.060	11.041	11.079	VV	625	9817	0.59%	0.096%
214	11.085	11.079	11.098	VV	330	2369	0.14%	0.023%
215	11.124	11.098	11.147	VV	493	9897	0.60%	0.097%
216	11.163	11.147	11.175	VV	610	7962	0.48%	0.078%
217	11.186	11.175	11.209	VV	566	8046	0.48%	0.079%
218	11.212	11.209	11.236	VV	259	2496	0.15%	0.025%
219	11.254	11.236	11.270	VV	179	2264	0.14%	0.022%
220	11.287	11.270	11.296	VV	355	3875	0.23%	0.038%
221	11.319	11.296	11.341	VV	7233	75570	4.55%	0.742%
222	11.354	11.341	11.369	VV	812	10525	0.63%	0.103%
223	11.394	11.369	11.448	VV	2557	41679	2.51%	0.409%
224	11.468	11.448	11.476	VV	313	4623	0.28%	0.045%
225	11.491	11.476	11.512	VV	369	5620	0.34%	0.055%
226	11.518	11.512	11.536	VV	296	2208	0.13%	0.022%
227	11.542	11.536	11.560	VV	150	1431	0.09%	0.014%
228	11.564	11.560	11.569	VV	137	505	0.03%	0.005%
229	11.579	11.569	11.592	VV	210	2109	0.13%	0.021%
230	11.608	11.592	11.621	VV	386	4663	0.28%	0.046%
231	11.627	11.621	11.644	VV	275	2507	0.15%	0.025%
232	11.648	11.644	11.656	PV	48	274	0.02%	0.003%
233	11.673	11.656	11.677	VV	146	744	0.04%	0.007%
234	11.699	11.677	11.719	VV	264	4383	0.26%	0.043%
235	11.738	11.719	11.754	VV	447	5441	0.33%	0.053%
236	11.770	11.754	11.786	VV	673	8473	0.51%	0.083%
237	11.790	11.786	11.794	VV	229	934	0.06%	0.009%
238	11.798	11.794	11.804	VV	252	1226	0.07%	0.012%
239	11.811	11.804	11.822	VV	271	2592	0.16%	0.025%
240	11.846	11.822	11.900	VV	1126	19886	1.20%	0.195%
241	11.932	11.900	11.947	PV	680	10140	0.61%	0.100%
242	11.973	11.947	11.999	VV	19740	220141	13.24%	2.161%
243	12.014	11.999	12.028	VV	296	4280	0.26%	0.042%
244	12.054	12.028	12.059	VV	965	12815	0.77%	0.126%
245	12.063	12.059	12.080	VV	985	11305	0.68%	0.111%
246	12.092	12.080	12.110	VV	1054	15251	0.92%	0.150%

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247	12.128	12.110	12.143	VV	1235	16314	0.98%	0.160%
248	12.160	12.143	12.173	VV	1512	18217	1.10%	0.179%
249	12.189	12.173	12.210	VV	2174	28026	1.69%	0.275%
250	12.244	12.210	12.270	VV	1783	36963	2.22%	0.363%
251	12.279	12.270	12.294	VV	647	7486	0.45%	0.073%
252	12.311	12.294	12.337	VV	855	11665	0.70%	0.115%
253	12.352	12.337	12.358	PV	134	1195	0.07%	0.012%
254	12.380	12.358	12.405	VV	517	7174	0.43%	0.070%
255	12.443	12.405	12.469	VV	760	14074	0.85%	0.138%
256	12.487	12.469	12.511	VV	429	6975	0.42%	0.068%
257	12.537	12.511	12.560	VV	1299	16741	1.01%	0.164%
258	12.577	12.560	12.582	VV	304	3400	0.20%	0.033%
259	12.604	12.582	12.622	VV	700	9584	0.58%	0.094%
260	12.625	12.622	12.648	VV	180	2326	0.14%	0.023%
261	12.702	12.648	12.771	VV	127519	1662182	100.00%	16.317%
262	12.780	12.771	12.797	VV	2090	29628	1.78%	0.291%
263	12.811	12.797	12.848	VV	2037	50124	3.02%	0.492%
264	12.856	12.848	12.909	VV	1260	36413	2.19%	0.357%
265	12.923	12.909	12.962	VV	1114	24343	1.46%	0.239%
266	12.983	12.962	12.994	VV	645	9740	0.59%	0.096%
267	13.030	12.994	13.056	VV	1439	34390	2.07%	0.338%
268	13.089	13.056	13.111	VV	1308	26747	1.61%	0.263%
269	13.117	13.111	13.129	VV	574	5492	0.33%	0.054%
270	13.154	13.129	13.217	VV	9417	155090	9.33%	1.522%
271	13.261	13.217	13.267	VV	319	6584	0.40%	0.065%
272	13.292	13.267	13.320	VV	1345	21903	1.32%	0.215%
273	13.342	13.320	13.349	VV	700	9238	0.56%	0.091%
274	13.353	13.349	13.367	VV	637	6618	0.40%	0.065%
275	13.369	13.367	13.380	VV	612	4278	0.26%	0.042%
276	13.393	13.380	13.428	VV	655	14245	0.86%	0.140%
277	13.454	13.428	13.472	VV	6122	71493	4.30%	0.702%
278	13.491	13.472	13.525	VV	6403	94811	5.70%	0.931%
279	13.542	13.525	13.562	VV	1513	21692	1.31%	0.213%
280	13.579	13.562	13.607	VV	1179	16753	1.01%	0.164%
281	13.628	13.607	13.639	VV	541	7452	0.45%	0.073%
282	13.654	13.639	13.683	VV	869	11281	0.68%	0.111%
283	13.715	13.683	13.735	PV	1281	25305	1.52%	0.248%
284	13.746	13.735	13.764	VV	1065	15599	0.94%	0.153%
285	13.793	13.764	13.801	VV	882	18741	1.13%	0.184%
286	13.806	13.801	13.810	VV	811	4557	0.27%	0.045%
287	13.830	13.810	13.843	VV	1167	20603	1.24%	0.202%
288	13.854	13.843	13.865	VV	1217	13924	0.84%	0.137%
289	13.890	13.865	13.919	VV	2426	54243	3.26%	0.532%
290	13.937	13.919	14.015	VV	20380	334604	20.13%	3.285%
291	14.047	14.015	14.085	VV	2843	75191	4.52%	0.738%
292	14.114	14.085	14.132	VV	1628	37858	2.28%	0.372%
293	14.155	14.132	14.180	VV	2203	44223	2.66%	0.434%
294	14.197	14.180	14.212	VV	1532	23729	1.43%	0.233%
295	14.247	14.212	14.265	VV	1310	34214	2.06%	0.336%
296	14.299	14.265	14.312	VV	1704	36693	2.21%	0.360%
297	14.326	14.312	14.347	VV	1706	29096	1.75%	0.286%
298	14.367	14.347	14.390	VV	1316	26214	1.58%	0.257%
299	14.427	14.390	14.466	VV	1106	34219	2.06%	0.336%

					rteres			
300	14.509	14.466	14.521	VV	633	16634	1.00%	0.163%
301	14.528	14.521	14.538	VV	568	5492	0.33%	0.054%
302	14.541	14.538	14.550	VV	508	3243	0.20%	0.032%
303	14.554	14.550	14.567	VV	450	4102	0.25%	0.040%
304	14.577	14.567	14.589	VV	370	4059	0.24%	0.040%
305	14.594	14.589	14.640	VV	301	8016	0.48%	0.079%
306	14.688	14.640	14.752	VV	9565	152714	9.19%	1.499%
307	14.779	14.752	14.799	VV	515	11888	0.72%	0.117%
308	14.814	14.799	14.840	VV	406	6910	0.42%	0.068%
309	14.864	14.840	14.883	PV	1407	17543	1.06%	0.172%
310	14.897	14.883	14.910	VV	410	5455	0.33%	0.054%
311	14.922	14.910	14.936	VV	353	4110	0.25%	0.040%
312	14.968	14.936	15.011	VV	3417	51202	3.08%	0.503%
313	15.033	15.011	15.050	VV	1088	11822	0.71%	0.116%
314	15.083	15.050	15.112	PV	674	12969	0.78%	0.127%
315	15.154	15.112	15.165	VV	607	12469	0.75%	0.122%
316	15.203	15.165	15.237	VV	90622	1245386	74.92%	12.226%
317	15.247	15.237	15.276	VV	2319	35985	2.16%	0.353%
318	15.299	15.276	15.319	VV	1453	27512	1.66%	0.270%
319	15.345	15.319	15.364	VV	4383	64160	3.86%	0.630%
320	15.386	15.364	15.425	VV	4599	100860	6.07%	0.990%
321	15.452	15.425	15.470	VV	1838	42904	2.58%	0.421%
322	15.505	15.470	15.535	VV	2408	69973	4.21%	0.687%
323	15.555	15.535	15.570	VV	1826	36378	2.19%	0.357%
324	15.601	15.570	15.628	VV	2065	62356	3.75%	0.612%
325	15.679	15.628	15.715	VV	1969	94223	5.67%	0.925%
326	15.718	15.715	15.750	VV	1817	33763	2.03%	0.331%
327	15.787	15.750	15.880	VV	74136	1125329	67.70%	11.047%
328	15.931	15.880	15.970	VV	3154	99290	5.97%	0.975%
329	16.020	15.970	16.042	VV	1885	49880	3.00%	0.490%
330	16.061	16.042	16.092	VV	1205	21875	1.32%	0.215%
331	16.107	16.092	16.137	VV	600	9150	0.55%	0.090%
332	16.185	16.137	16.224	PV	875	25410	1.53%	0.249%
333	16.227	16.224	16.234	VV	207	660	0.04%	0.006%
334	16.306	16.234	16.332	PV	1724	34277	2.06%	0.336%
335	16.353	16.332	16.374	VV	146	2663	0.16%	0.026%
336	16.401	16.374	16.419	PV	2861	33650	2.02%	0.330%
337	16.438	16.419	16.470	VV	2268	33174	2.00%	0.326%
338	16.517	16.470	16.538	VV	436	9324	0.56%	0.092%
339	16.575	16.538	16.590	PV	504	7916	0.48%	0.078%
340	16.634	16.590	16.655	VV	1262	25866	1.56%	0.254%
341	16.673	16.655	16.685	VV	832	12275	0.74%	0.120%
342	16.743	16.685	16.766	VV	2357	60162	3.62%	0.591%
343	16.808	16.766	16.860	VV	9123	185888	11.18%	1.825%
344	16.920	16.860	16.964	VV	5634	152311	9.16%	1.495%
345	17.007	16.964	17.030	VV	2261	55918	3.36%	0.549%
346	17.067	17.030	17.075	VV	1376	37641	2.26%	0.370%
347	17.089	17.075	17.104	VV	1499	21741	1.31%	0.213%
348	17.114	17.104	17.130	VV	1354	18248	1.10%	0.179%
349	17.168	17.130	17.207	VV	3726	82523	4.96%	0.810%
350	17.236	17.207	17.262	VV	2630	49838	3.00%	0.489%
351	17.293	17.262	17.329	VV	3173	50286	3.03%	0.494%

					rteres				
352	17.395	17.329	17.414	VV	4234	66833	4.02%	0.656%	
353	17.434	17.414	17.444	VV	1170	17393	1.05%	0.171%	
354	17.457	17.444	17.490	VV	924	18213	1.10%	0.179%	
					Sum of corrected areas:	10186618			

FG061325.M Thu Jul 03 01:56:42 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	FB-06272025	SDG No.:	Q2458
Lab Sample ID:	Q2458-10	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0
Sample Wt/Vol:	970	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
FF016068.D	1	07/02/25 09:09	07/02/25 15:02	PB168697

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	47.0	J	6.00	52.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	17.1		29 - 130	86%	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\FF070225\
Data File : FF016068.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 15:02
Operator : YP\AJ
Sample : Q2458-10
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
FB-06272025

Integration File: autoint1.e
Quant Time: Jul 03 03:20:50 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...	15.092	2065147	17.104 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

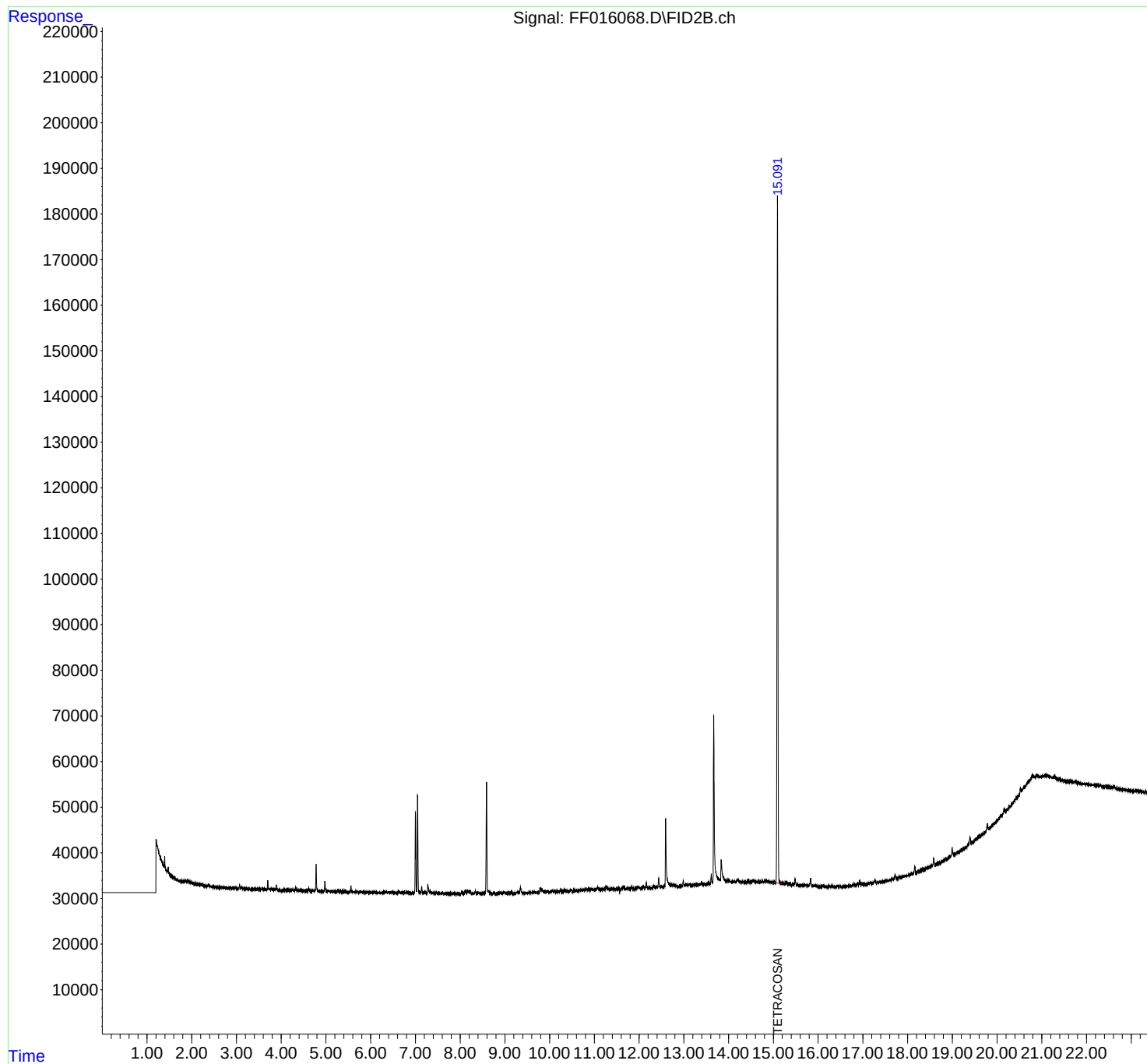
(m)=manual int.

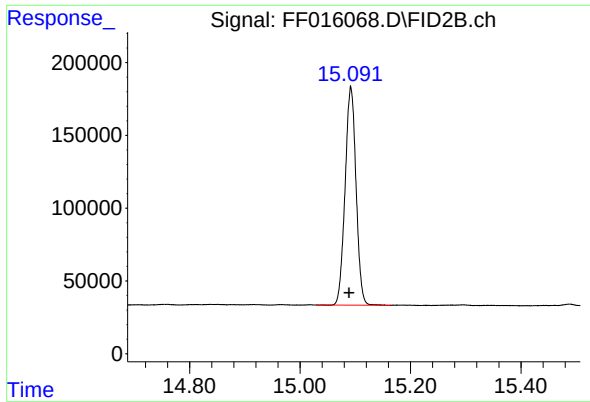
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016068.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 15:02
Operator : YP\AJ
Sample : Q2458-10
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
FB-06272025

Integration File: autoint1.e
Quant Time: Jul 03 03:20:50 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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.092 min
Delta R.T.: 0.003 min
Response: 2065147
Conc: 17.10 ug/ml

Instrument :
FID_F
ClientSampleId :
FB-06272025

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016068.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 15:02
Sample : Q2458-10
Misc :
ALS Vial : 74 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	4.513	4.500	4.520	BV	60	332	0.02%	0.004%
2	4.523	4.520	4.529	PV	119	303	0.01%	0.004%
3	4.557	4.529	4.567	VV	143	1841	0.09%	0.022%
4	4.575	4.567	4.588	VV	162	1100	0.05%	0.013%
5	4.619	4.588	4.645	PV	762	10070	0.47%	0.122%
6	4.657	4.645	4.675	VV	192	2362	0.11%	0.029%
7	4.696	4.675	4.701	VV	190	1932	0.09%	0.023%
8	4.704	4.701	4.715	VV	201	858	0.04%	0.010%
9	4.718	4.715	4.726	VV	86	660	0.03%	0.008%
10	4.745	4.726	4.754	VV	233	2703	0.13%	0.033%
11	4.781	4.754	4.825	VV	6030	65501	3.05%	0.793%
12	4.829	4.825	4.851	VV	149	1692	0.08%	0.020%
13	4.860	4.851	4.880	VV	133	1249	0.06%	0.015%
14	4.905	4.880	4.913	VV	146	1689	0.08%	0.020%
15	4.931	4.913	4.949	VV	231	2815	0.13%	0.034%
16	4.977	4.949	5.029	VV	2355	28321	1.32%	0.343%
17	5.035	5.029	5.059	VV	263	2630	0.12%	0.032%
18	5.074	5.059	5.087	VV	198	2288	0.11%	0.028%
19	5.089	5.087	5.101	VV	211	1040	0.05%	0.013%
20	5.111	5.101	5.140	VV	157	2605	0.12%	0.032%
21	5.148	5.140	5.152	VV	154	833	0.04%	0.010%
22	5.157	5.152	5.194	VV	169	2716	0.13%	0.033%
23	5.204	5.194	5.215	VV	143	1216	0.06%	0.015%
24	5.268	5.215	5.286	VV	760	10561	0.49%	0.128%
25	5.290	5.286	5.316	VV	164	1549	0.07%	0.019%
26	5.323	5.316	5.332	VV	171	997	0.05%	0.012%
27	5.336	5.332	5.351	VV	154	856	0.04%	0.010%
28	5.375	5.351	5.382	PV	305	3165	0.15%	0.038%
29	5.384	5.382	5.389	VV	223	679	0.03%	0.008%
30	5.392	5.389	5.399	VV	216	783	0.04%	0.009%
31	5.432	5.399	5.455	VV	307	6149	0.29%	0.074%
32	5.462	5.455	5.467	VV	145	722	0.03%	0.009%
33	5.472	5.467	5.480	VV	163	808	0.04%	0.010%
34	5.483	5.480	5.490	VV	186	730	0.03%	0.009%
35	5.492	5.490	5.514	VV	158	1213	0.06%	0.015%
36	5.515	5.514	5.527	VV	101	583	0.03%	0.007%

					rteres			
37	5.535	5.527	5.539	VV	162	732	0.03%	0.009%
38	5.559	5.539	5.585	VV	1465	16662	0.78%	0.202%
39	5.589	5.585	5.620	VV	226	3418	0.16%	0.041%
40	5.623	5.620	5.628	VV	140	480	0.02%	0.006%
41	5.655	5.628	5.671	VV	278	4000	0.19%	0.048%
42	5.694	5.671	5.705	VV	221	2590	0.12%	0.031%
43	5.708	5.705	5.717	VV	122	556	0.03%	0.007%
44	5.721	5.717	5.734	VV	88	486	0.02%	0.006%
45	5.759	5.734	5.771	PV	358	4730	0.22%	0.057%
46	5.783	5.771	5.810	VV	407	5316	0.25%	0.064%
47	5.833	5.810	5.853	VV	234	3924	0.18%	0.048%
48	5.858	5.853	5.872	VV	206	1367	0.06%	0.017%
49	5.880	5.872	5.898	VV	109	1618	0.08%	0.020%
50	5.902	5.898	5.922	VV	183	1952	0.09%	0.024%
51	5.939	5.922	5.957	VV	194	2869	0.13%	0.035%
52	5.962	5.957	5.975	VV	146	1082	0.05%	0.013%
53	5.985	5.975	6.020	VV	119	2667	0.12%	0.032%
54	6.027	6.020	6.033	VV	111	671	0.03%	0.008%
55	6.037	6.033	6.059	VV	106	1552	0.07%	0.019%
56	6.092	6.059	6.119	VV	310	5674	0.26%	0.069%
57	6.123	6.119	6.127	VV	124	364	0.02%	0.004%
58	6.141	6.127	6.146	VV	151	931	0.04%	0.011%
59	6.150	6.146	6.157	VV	92	341	0.02%	0.004%
60	6.174	6.157	6.179	PV	98	641	0.03%	0.008%
61	6.184	6.179	6.190	VV	110	514	0.02%	0.006%
62	6.193	6.190	6.201	VV	142	731	0.03%	0.009%
63	6.213	6.201	6.229	VV	161	1207	0.06%	0.015%
64	6.231	6.229	6.250	VV	110	847	0.04%	0.010%
65	6.256	6.250	6.262	VV	87	418	0.02%	0.005%
66	6.284	6.262	6.311	VV	364	5559	0.26%	0.067%
67	6.327	6.311	6.335	VV	269	2394	0.11%	0.029%
68	6.357	6.335	6.375	VV	331	5148	0.24%	0.062%
69	6.387	6.375	6.392	VV	198	1657	0.08%	0.020%
70	6.409	6.392	6.426	VV	279	4134	0.19%	0.050%
71	6.439	6.426	6.464	VV	266	4043	0.19%	0.049%
72	6.478	6.464	6.487	VV	218	2125	0.10%	0.026%
73	6.490	6.487	6.547	VV	234	5618	0.26%	0.068%
74	6.581	6.547	6.600	VV	194	3810	0.18%	0.046%
75	6.625	6.600	6.641	VV	563	7488	0.35%	0.091%
76	6.645	6.641	6.667	VV	230	2760	0.13%	0.033%
77	6.672	6.667	6.696	VV	245	2935	0.14%	0.036%
78	6.716	6.696	6.729	VV	301	3946	0.18%	0.048%
79	6.730	6.729	6.738	VV	240	991	0.05%	0.012%
80	6.740	6.738	6.757	VV	232	1844	0.09%	0.022%
81	6.768	6.757	6.773	VV	209	1558	0.07%	0.019%
82	6.789	6.773	6.807	VV	317	4547	0.21%	0.055%
83	6.811	6.807	6.834	VV	196	2424	0.11%	0.029%
84	6.844	6.834	6.853	VV	213	1704	0.08%	0.021%
85	6.857	6.853	6.860	VV	176	550	0.03%	0.007%
86	6.865	6.860	6.874	VV	435	1395	0.07%	0.017%
87	6.876	6.874	6.893	VV	197	1276	0.06%	0.015%
88	6.896	6.893	6.924	VV	141	1410	0.07%	0.017%
89	6.935	6.924	6.949	VV	190	1302	0.06%	0.016%

					rteres			
90	6.951	6.949	6.966	VV	128	1112	0.05%	0.013%
91	6.970	6.966	6.974	VV	105	352	0.02%	0.004%
92	7.000	6.974	7.023	VV	17813	177324	8.27%	2.147%
93	7.048	7.023	7.096	VV	21552	234931	10.95%	2.844%
94	7.102	7.096	7.109	VV	263	1504	0.07%	0.018%
95	7.112	7.109	7.118	VV	242	1188	0.06%	0.014%
96	7.140	7.118	7.174	VV	1487	19032	0.89%	0.230%
97	7.178	7.174	7.184	VV	171	705	0.03%	0.009%
98	7.212	7.184	7.228	VV	483	6356	0.30%	0.077%
99	7.235	7.228	7.255	VV	224	2993	0.14%	0.036%
100	7.276	7.255	7.320	VV	2000	32934	1.54%	0.399%
101	7.323	7.320	7.353	VV	448	7458	0.35%	0.090%
102	7.358	7.353	7.390	VV	381	6224	0.29%	0.075%
103	7.402	7.390	7.411	VV	265	2628	0.12%	0.032%
104	7.423	7.411	7.444	VV	311	4294	0.20%	0.052%
105	7.456	7.444	7.462	VV	253	2337	0.11%	0.028%
106	7.472	7.462	7.500	VV	326	4324	0.20%	0.052%
107	7.510	7.500	7.558	VV	177	3743	0.17%	0.045%
108	7.576	7.558	7.594	VV	222	2388	0.11%	0.029%
109	7.598	7.594	7.600	VV	123	349	0.02%	0.004%
110	7.607	7.600	7.638	VV	296	3604	0.17%	0.044%
111	7.643	7.638	7.648	VV	120	577	0.03%	0.007%
112	7.653	7.648	7.667	VV	108	1038	0.05%	0.013%
113	7.691	7.667	7.707	VV	166	2340	0.11%	0.028%
114	7.725	7.707	7.761	VV	179	3240	0.15%	0.039%
115	7.779	7.761	7.788	VV	197	1970	0.09%	0.024%
116	7.794	7.788	7.811	VV	149	1287	0.06%	0.016%
117	7.816	7.811	7.822	VV	72	399	0.02%	0.005%
118	7.827	7.822	7.831	VV	106	361	0.02%	0.004%
119	7.835	7.831	7.844	VV	94	680	0.03%	0.008%
120	7.848	7.844	7.856	VV	134	872	0.04%	0.011%
121	7.859	7.856	7.862	VV	169	558	0.03%	0.007%
122	7.871	7.862	7.901	VV	168	1924	0.09%	0.023%
123	7.908	7.901	7.914	PV	70	396	0.02%	0.005%
124	7.919	7.914	7.924	VV	94	345	0.02%	0.004%
125	7.932	7.924	7.944	VV	148	997	0.05%	0.012%
126	7.956	7.944	7.968	VV	117	974	0.05%	0.012%
127	7.972	7.968	7.980	VV	89	271	0.01%	0.003%
128	7.999	7.980	8.011	VV	106	861	0.04%	0.010%
129	8.029	8.011	8.047	PV	538	6803	0.32%	0.082%
130	8.050	8.047	8.076	VV	284	3240	0.15%	0.039%
131	8.106	8.076	8.136	VV	559	14785	0.69%	0.179%
132	8.167	8.136	8.182	VV	704	14501	0.68%	0.176%
133	8.198	8.182	8.213	VV	806	10496	0.49%	0.127%
134	8.229	8.213	8.261	VV	805	11363	0.53%	0.138%
135	8.273	8.261	8.277	VV	231	1733	0.08%	0.021%
136	8.282	8.277	8.297	VV	210	1755	0.08%	0.021%
137	8.316	8.297	8.324	VV	210	2557	0.12%	0.031%
138	8.339	8.324	8.363	VV	708	8909	0.42%	0.108%
139	8.384	8.363	8.401	VV	204	3225	0.15%	0.039%
140	8.404	8.401	8.411	VV	201	863	0.04%	0.010%
141	8.424	8.411	8.440	VV	242	2623	0.12%	0.032%

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142	8.445	8.440	8.477	VV	183	2533	0.12%	0.031%
143	8.483	8.477	8.495	VV	100	748	0.03%	0.009%
144	8.512	8.495	8.530	VV	264	3404	0.16%	0.041%
145	8.590	8.530	8.674	VV	24582	305080	14.22%	3.694%
146	8.680	8.674	8.694	VV	201	1712	0.08%	0.021%
147	8.697	8.694	8.704	VV	82	355	0.02%	0.004%
148	8.758	8.704	8.788	PV	225	5941	0.28%	0.072%
149	8.792	8.788	8.806	VV	140	1218	0.06%	0.015%
150	8.810	8.806	8.815	VV	79	473	0.02%	0.006%
151	8.820	8.815	8.844	VV	159	1750	0.08%	0.021%
152	8.863	8.844	8.890	VV	208	3929	0.18%	0.048%
153	8.905	8.890	8.919	VV	188	1843	0.09%	0.022%
154	8.925	8.919	8.939	VV	82	656	0.03%	0.008%
155	8.943	8.939	8.949	VV	80	312	0.01%	0.004%
156	8.973	8.949	8.981	VV	394	4435	0.21%	0.054%
157	8.987	8.981	9.024	VV	411	6594	0.31%	0.080%
158	9.027	9.024	9.033	VV	191	835	0.04%	0.010%
159	9.036	9.033	9.044	VV	131	688	0.03%	0.008%
160	9.058	9.044	9.073	VV	244	3032	0.14%	0.037%
161	9.095	9.073	9.119	VV	401	6237	0.29%	0.076%
162	9.139	9.119	9.174	VV	331	6767	0.32%	0.082%
163	9.182	9.174	9.196	VV	152	1066	0.05%	0.013%
164	9.212	9.196	9.218	VV	161	1100	0.05%	0.013%
165	9.223	9.218	9.226	VV	100	349	0.02%	0.004%
166	9.289	9.226	9.294	VV	432	8618	0.40%	0.104%
167	9.298	9.294	9.319	VV	423	4069	0.19%	0.049%
168	9.349	9.319	9.397	VV	1555	27785	1.30%	0.336%
169	9.400	9.397	9.406	VV	159	592	0.03%	0.007%
170	9.410	9.406	9.437	VV	107	1713	0.08%	0.021%
171	9.443	9.437	9.447	VV	133	727	0.03%	0.009%
172	9.459	9.447	9.472	VV	175	2209	0.10%	0.027%
173	9.495	9.472	9.519	VV	245	4198	0.20%	0.051%
174	9.523	9.519	9.527	VV	185	645	0.03%	0.008%
175	9.540	9.527	9.544	VV	204	1420	0.07%	0.017%
176	9.548	9.544	9.551	VV	191	683	0.03%	0.008%
177	9.554	9.551	9.613	VV	234	5854	0.27%	0.071%
178	9.643	9.613	9.653	VV	414	6992	0.33%	0.085%
179	9.661	9.653	9.701	VV	340	5686	0.27%	0.069%
180	9.706	9.701	9.712	VV	188	1143	0.05%	0.014%
181	9.718	9.712	9.727	VV	230	1454	0.07%	0.018%
182	9.742	9.727	9.761	VV	305	4524	0.21%	0.055%
183	9.785	9.761	9.815	VV	1121	22428	1.05%	0.272%
184	9.830	9.815	9.886	VV	940	23256	1.08%	0.282%
185	9.899	9.886	9.922	VV	468	8272	0.39%	0.100%
186	9.937	9.922	9.959	VV	486	7827	0.36%	0.095%
187	9.964	9.959	9.978	VV	376	3522	0.16%	0.043%
188	9.982	9.978	9.988	VV	293	1637	0.08%	0.020%
189	9.994	9.988	10.001	VV	313	2184	0.10%	0.026%
190	10.010	10.001	10.031	VV	415	5723	0.27%	0.069%
191	10.067	10.031	10.088	VV	612	14354	0.67%	0.174%
192	10.106	10.088	10.144	VV	524	12647	0.59%	0.153%
193	10.167	10.144	10.187	VV	542	9658	0.45%	0.117%
194	10.209	10.187	10.219	VV	407	6735	0.31%	0.082%

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195	10.243	10.219	10.278	VV	719	16043	0.75%	0.194%
196	10.291	10.278	10.302	VV	333	4135	0.19%	0.050%
197	10.310	10.302	10.315	VV	347	2584	0.12%	0.031%
198	10.333	10.315	10.353	VV	881	13378	0.62%	0.162%
199	10.358	10.353	10.370	VV	507	4484	0.21%	0.054%
200	10.378	10.370	10.392	VV	462	5495	0.26%	0.067%
201	10.396	10.392	10.412	VV	476	5014	0.23%	0.061%
202	10.435	10.412	10.447	VV	426	7103	0.33%	0.086%
203	10.479	10.447	10.502	VV	771	17790	0.83%	0.215%
204	10.508	10.502	10.518	VV	391	3382	0.16%	0.041%
205	10.539	10.518	10.544	VV	665	7853	0.37%	0.095%
206	10.553	10.544	10.583	VV	601	12434	0.58%	0.151%
207	10.589	10.583	10.599	VV	509	4163	0.19%	0.050%
208	10.606	10.599	10.612	VV	466	3297	0.15%	0.040%
209	10.620	10.612	10.627	VV	472	4038	0.19%	0.049%
210	10.676	10.627	10.689	VV	660	18487	0.86%	0.224%
211	10.718	10.689	10.732	VV	650	15016	0.70%	0.182%
212	10.735	10.732	10.747	VV	629	5357	0.25%	0.065%
213	10.751	10.747	10.759	VV	612	3878	0.18%	0.047%
214	10.789	10.759	10.809	VV	860	20383	0.95%	0.247%
215	10.832	10.809	10.857	VV	881	20806	0.97%	0.252%
216	10.879	10.857	10.897	VV	833	16037	0.75%	0.194%
217	10.922	10.897	10.940	VV	973	18941	0.88%	0.229%
218	10.947	10.940	10.961	VV	732	8689	0.41%	0.105%
219	10.967	10.961	10.987	VV	759	10446	0.49%	0.126%
220	10.993	10.987	11.004	VV	638	5998	0.28%	0.073%
221	11.009	11.004	11.014	VV	608	3300	0.15%	0.040%
222	11.027	11.014	11.035	VV	679	7742	0.36%	0.094%
223	11.069	11.035	11.099	VV	1207	32832	1.53%	0.397%
224	11.104	11.099	11.123	VV	830	10818	0.50%	0.131%
225	11.127	11.123	11.149	VV	670	9122	0.43%	0.110%
226	11.165	11.149	11.188	VV	693	14487	0.68%	0.175%
227	11.200	11.188	11.205	VV	704	7035	0.33%	0.085%
228	11.220	11.205	11.237	VV	814	13939	0.65%	0.169%
229	11.261	11.237	11.305	VV	1290	40512	1.89%	0.490%
230	11.309	11.305	11.340	VV	865	16324	0.76%	0.198%
231	11.346	11.340	11.351	VV	755	4535	0.21%	0.055%
232	11.355	11.351	11.389	VV	790	16098	0.75%	0.195%
233	11.404	11.389	11.415	VV	815	11263	0.53%	0.136%
234	11.423	11.415	11.440	VV	732	10406	0.49%	0.126%
235	11.449	11.440	11.469	VV	728	11387	0.53%	0.138%
236	11.493	11.469	11.504	VV	896	16613	0.77%	0.201%
237	11.506	11.504	11.518	VV	830	6329	0.30%	0.077%
238	11.531	11.518	11.564	VV	857	21101	0.98%	0.255%
239	11.579	11.564	11.588	PV	780	9525	0.44%	0.115%
240	11.614	11.588	11.631	VV	918	20249	0.94%	0.245%
241	11.648	11.631	11.664	VV	1209	19786	0.92%	0.240%
242	11.676	11.664	11.696	VV	1003	16584	0.77%	0.201%
243	11.700	11.696	11.711	VV	759	6055	0.28%	0.073%
244	11.719	11.711	11.732	VV	699	8210	0.38%	0.099%
245	11.754	11.732	11.783	VV	995	24407	1.14%	0.295%
246	11.835	11.783	11.861	VV	1141	37526	1.75%	0.454%

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247	11.867	11.861	11.897	VV	682	14671	0.68%	0.178%
248	11.925	11.897	11.932	VV	778	14941	0.70%	0.181%
249	11.960	11.932	11.972	VV	984	20605	0.96%	0.249%
250	11.980	11.972	11.984	VV	1004	6823	0.32%	0.083%
251	11.987	11.984	12.003	VV	1025	10210	0.48%	0.124%
252	12.010	12.003	12.046	VV	865	20147	0.94%	0.244%
253	12.069	12.046	12.074	VV	844	13015	0.61%	0.158%
254	12.095	12.074	12.127	VV	1404	32274	1.50%	0.391%
255	12.161	12.127	12.189	VV	2029	45387	2.12%	0.550%
256	12.192	12.189	12.199	VV	904	4812	0.22%	0.058%
257	12.221	12.199	12.231	VV	914	15960	0.74%	0.193%
258	12.246	12.231	12.265	VV	880	16134	0.75%	0.195%
259	12.295	12.265	12.304	VV	821	18179	0.85%	0.220%
260	12.308	12.304	12.312	VV	862	4278	0.20%	0.052%
261	12.336	12.312	12.372	VV	1113	34235	1.60%	0.414%
262	12.397	12.372	12.414	VV	1056	23324	1.09%	0.282%
263	12.437	12.414	12.460	VV	2889	47823	2.23%	0.579%
264	12.475	12.460	12.481	VV	1028	11949	0.56%	0.145%
265	12.483	12.481	12.487	VV	1023	4026	0.19%	0.049%
266	12.491	12.487	12.531	VV	1048	24645	1.15%	0.298%
267	12.592	12.531	12.699	VV	15852	316310	14.75%	3.830%
268	12.705	12.699	12.714	VV	1297	11411	0.53%	0.138%
269	12.720	12.714	12.724	VV	1376	8007	0.37%	0.097%
270	12.735	12.724	12.750	VV	1417	21173	0.99%	0.256%
271	12.755	12.750	12.759	VV	1443	7549	0.35%	0.091%
272	12.760	12.759	12.782	VV	1437	17467	0.81%	0.211%
273	12.793	12.782	12.816	VV	1277	24743	1.15%	0.300%
274	12.822	12.816	12.890	VV	1226	48369	2.26%	0.586%
275	12.904	12.890	12.919	VV	1081	17798	0.83%	0.215%
276	12.930	12.919	12.949	VV	1106	19311	0.90%	0.234%
277	12.954	12.949	12.961	VV	1084	7202	0.34%	0.087%
278	12.987	12.961	13.017	VV	2285	48934	2.28%	0.592%
279	13.049	13.017	13.077	VV	1481	45450	2.12%	0.550%
280	13.126	13.077	13.141	VV	1358	48301	2.25%	0.585%
281	13.145	13.141	13.151	VV	1221	6747	0.31%	0.082%
282	13.159	13.151	13.174	VV	1282	16055	0.75%	0.194%
283	13.182	13.174	13.187	VV	1145	8847	0.41%	0.107%
284	13.194	13.187	13.201	VV	1232	9371	0.44%	0.113%
285	13.208	13.201	13.212	VV	1261	8321	0.39%	0.101%
286	13.220	13.212	13.226	VV	1344	10724	0.50%	0.130%
287	13.267	13.226	13.276	VV	1301	36561	1.70%	0.443%
288	13.291	13.276	13.305	VV	1282	21594	1.01%	0.261%
289	13.322	13.305	13.331	VV	1313	19214	0.90%	0.233%
290	13.339	13.331	13.362	VV	1417	24896	1.16%	0.301%
291	13.393	13.362	13.425	VV	1713	55650	2.59%	0.674%
292	13.441	13.425	13.499	VV	1384	57521	2.68%	0.696%
293	13.515	13.499	13.527	VV	1373	22080	1.03%	0.267%
294	13.552	13.527	13.580	VV	1844	46431	2.16%	0.562%
295	13.612	13.580	13.632	VV	3415	64981	3.03%	0.787%
296	13.667	13.632	13.764	VV	38122	634447	29.58%	7.681%
297	13.774	13.764	13.786	VV	2536	32314	1.51%	0.391%
298	13.791	13.786	13.811	VV	2308	32201	1.50%	0.390%
299	13.834	13.811	13.941	VV	6586	244434	11.40%	2.959%

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300	13.944	13.941	13.958	VV	1996	19646	0.92%	0.238%
301	13.963	13.958	13.972	VV	1887	15904	0.74%	0.193%
302	13.994	13.972	14.081	VV	2069	118544	5.53%	1.435%
303	14.094	14.081	14.101	VV	1716	19937	0.93%	0.241%
304	14.107	14.101	14.123	VV	1729	22707	1.06%	0.275%
305	14.140	14.123	14.161	VV	1796	38472	1.79%	0.466%
306	14.189	14.161	14.198	VV	2042	40605	1.89%	0.492%
307	14.213	14.198	14.232	VV	2229	41728	1.95%	0.505%
308	14.237	14.232	14.243	VV	1801	10993	0.51%	0.133%
309	14.247	14.243	14.265	VV	1745	22151	1.03%	0.268%
310	14.286	14.265	14.299	VV	1709	32795	1.53%	0.397%
311	14.307	14.299	14.312	VV	1628	12820	0.60%	0.155%
312	14.321	14.312	14.331	VV	1683	18190	0.85%	0.220%
313	14.340	14.331	14.356	VV	1775	25469	1.19%	0.308%
314	14.361	14.356	14.375	VV	1701	17803	0.83%	0.216%
315	14.380	14.375	14.392	VV	1640	16252	0.76%	0.197%
316	14.402	14.392	14.411	VV	1711	18791	0.88%	0.227%
317	14.423	14.411	14.464	VV	1775	52455	2.45%	0.635%
318	14.485	14.464	14.489	VV	1640	23963	1.12%	0.290%
319	14.495	14.489	14.503	VV	1642	13487	0.63%	0.163%
320	14.509	14.503	14.523	VV	1639	19112	0.89%	0.231%
321	14.553	14.523	14.568	VV	1880	46874	2.19%	0.568%
322	14.572	14.568	14.607	VV	1731	38578	1.80%	0.467%
323	14.618	14.607	14.622	VV	1644	13601	0.63%	0.165%
324	14.631	14.622	14.643	VV	1624	19869	0.93%	0.241%
325	14.662	14.643	14.676	VV	1808	32779	1.53%	0.397%
326	14.680	14.676	14.686	VV	1480	9326	0.43%	0.113%
327	14.700	14.686	14.727	VV	1580	36544	1.70%	0.442%
328	14.760	14.727	14.783	VV	1835	53347	2.49%	0.646%
329	14.803	14.783	14.822	VV	1682	37683	1.76%	0.456%
330	14.838	14.822	14.869	VV	1802	46892	2.19%	0.568%
331	14.874	14.869	14.897	VV	1631	25639	1.20%	0.310%
332	14.916	14.897	14.948	VV	1684	46718	2.18%	0.566%
333	14.967	14.948	14.991	VV	1638	37231	1.74%	0.451%
334	14.996	14.991	15.004	VV	1321	9675	0.45%	0.117%
335	15.018	15.004	15.051	VV	1519	37750	1.76%	0.457%
336	15.092	15.051	15.166	VV	150842	2144968	100.00%	25.969%
337	15.187	15.166	15.221	VV	1229	36999	1.72%	0.448%
338	15.231	15.221	15.244	VV	1019	13974	0.65%	0.169%
339	15.273	15.244	15.281	VV	1244	24381	1.14%	0.295%
340	15.295	15.281	15.314	VV	1382	24008	1.12%	0.291%
341	15.318	15.314	15.326	VV	954	6377	0.30%	0.077%
342	15.348	15.326	15.371	VV	991	25050	1.17%	0.303%
343	15.374	15.371	15.404	VV	877	16337	0.76%	0.198%
344	15.411	15.404	15.419	VV	800	6633	0.31%	0.080%
345	15.446	15.419	15.451	VV	952	16061	0.75%	0.194%
346	15.461	15.451	15.467	VV	972	9049	0.42%	0.110%
347	15.487	15.467	15.537	VV	1801	43799	2.04%	0.530%
348	15.542	15.537	15.560	VV	732	8791	0.41%	0.106%
349	15.570	15.560	15.592	VV	651	11623	0.54%	0.141%
350	15.602	15.592	15.611	VV	615	6599	0.31%	0.080%
351	15.628	15.611	15.646	VV	613	11442	0.53%	0.139%

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352	15.652	15.646	15.665	VV	618	6787	0.32%	0.082%
353	15.671	15.665	15.676	VV	608	3606	0.17%	0.044%
354	15.681	15.676	15.703	VV	614	8766	0.41%	0.106%
355	15.727	15.703	15.752	VV	637	15805	0.74%	0.191%
356	15.756	15.752	15.766	VV	485	3607	0.17%	0.044%
357	15.770	15.766	15.792	VV	530	7328	0.34%	0.089%
358	15.834	15.792	15.886	VV	2090	46888	2.19%	0.568%
359	15.897	15.886	15.923	VV	463	8161	0.38%	0.099%
360	15.948	15.923	15.969	VV	564	11602	0.54%	0.140%
361	15.986	15.969	16.011	VV	350	6069	0.28%	0.073%
362	16.017	16.011	16.028	VV	206	1689	0.08%	0.020%
363	16.063	16.028	16.077	VV	247	5641	0.26%	0.068%
364	16.107	16.077	16.116	VV	406	6702	0.31%	0.081%
365	16.120	16.116	16.128	VV	339	1783	0.08%	0.022%
366	16.132	16.128	16.167	VV	207	3105	0.14%	0.038%
367	16.177	16.167	16.192	VV	111	1347	0.06%	0.016%
368	16.196	16.192	16.204	VV	130	676	0.03%	0.008%
369	16.211	16.204	16.223	VV	142	806	0.04%	0.010%
370	16.247	16.223	16.266	VV	286	4905	0.23%	0.059%
371	16.280	16.266	16.284	VV	161	1583	0.07%	0.019%
372	16.288	16.284	16.298	VV	169	882	0.04%	0.011%
373	16.318	16.298	16.342	VV	409	6043	0.28%	0.073%
374	16.346	16.342	16.359	VV	135	1100	0.05%	0.013%
375	16.361	16.359	16.366	VV	137	374	0.02%	0.005%
376	16.379	16.366	16.386	VV	137	1162	0.05%	0.014%
377	16.396	16.386	16.401	VV	96	440	0.02%	0.005%
378	16.428	16.401	16.446	VV	176	2477	0.12%	0.030%
379	16.458	16.446	16.487	VV	187	2962	0.14%	0.036%
380	16.493	16.487	16.496	VV	156	626	0.03%	0.008%
381	16.501	16.496	16.506	VV	164	746	0.03%	0.009%
382	16.510	16.506	16.550	VV	156	2546	0.12%	0.031%
383	16.559	16.550	16.571	VV	91	795	0.04%	0.010%
384	16.592	16.571	16.599	PV	82	954	0.04%	0.012%
385	16.657	16.599	16.672	VV	217	4912	0.23%	0.059%
386	16.679	16.672	16.699	VV	202	2343	0.11%	0.028%
387	16.704	16.699	16.726	VV	166	1978	0.09%	0.024%
388	16.736	16.726	16.745	VV	139	1125	0.05%	0.014%
389	16.798	16.745	16.828	VV	485	10480	0.49%	0.127%
390	16.855	16.828	16.859	PV	137	1582	0.07%	0.019%
391	16.882	16.859	16.909	VV	628	9106	0.42%	0.110%
392	16.930	16.909	16.964	VV	1199	16856	0.79%	0.204%
393	16.980	16.964	17.025	VV	325	6064	0.28%	0.073%
394	17.030	17.025	17.076	VV	365	1972	0.09%	0.024%
395	17.096	17.076	17.100	VV	65	616	0.03%	0.007%
396	17.114	17.100	17.122	PV	138	736	0.03%	0.009%
397	17.166	17.122	17.171	VV	179	3838	0.18%	0.046%
398	17.174	17.171	17.206	VV	224	1303	0.06%	0.016%
399	17.209	17.206	17.212	VV	51	88	0.00%	0.001%
400	17.216	17.212	17.219	PV	80	178	0.01%	0.002%
401	17.236	17.219	17.247	VV	167	2140	0.10%	0.026%
402	17.268	17.247	17.294	VV	703	10647	0.50%	0.129%
403	17.299	17.294	17.302	VV	137	351	0.02%	0.004%
404	17.316	17.302	17.329	VV	215	2166	0.10%	0.026%

					rteres				
405	17.334	17.329	17.354	VV	109	914	0.04%	0.011%	
406	17.381	17.354	17.397	PV	92	1031	0.05%	0.012%	
407	17.407	17.397	17.431	VV	113	1344	0.06%	0.016%	
408	17.435	17.431	17.442	VV	102	340	0.02%	0.004%	
					Sum of corrected areas:	8259603			

FF061325.M Thu Jul 03 04:35:31 2025



CALIBRATION SUMMARY

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE

SDG No.: Q2458

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.: Q2458

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 CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2458
DataFile: FF016063.D Analyst Name: YP\AJ Analyst Date: 07-02-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	70575628	141151	134918	4.62

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
 Data File : FF016063.D
 Signal(s) : FID2B.ch
 Acq On : 02 Jul 2025 11:53
 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 03 03:19:49 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...	15.096	6168210	51.085 ug/ml
Target Compounds			
2) N-DECANE	4.614	6877294	52.489 ug/ml
3) N-DODECANE	6.792	7031467	52.805 ug/ml
4) N-TETRADECANE	8.625	7134739	53.235 ug/ml
5) N-HEXADECANE	10.234	7154891	52.978 ug/ml
6) N-OCTADECANE	11.680	7271318	52.450 ug/ml
7) N-EICOSANE	12.993	7312900	52.371 ug/ml
8) N-DOCOSANE	14.194	7053886	51.917 ug/ml
10) N-TETRACOSANE	15.299	6995959	51.620 ug/ml
11) N-HEXACOSANE	16.323	6886331	51.300 ug/ml
12) N-OCTACOSANE	17.276	6856843	51.938 ug/ml

(f)=RT Delta > 1/2 Window

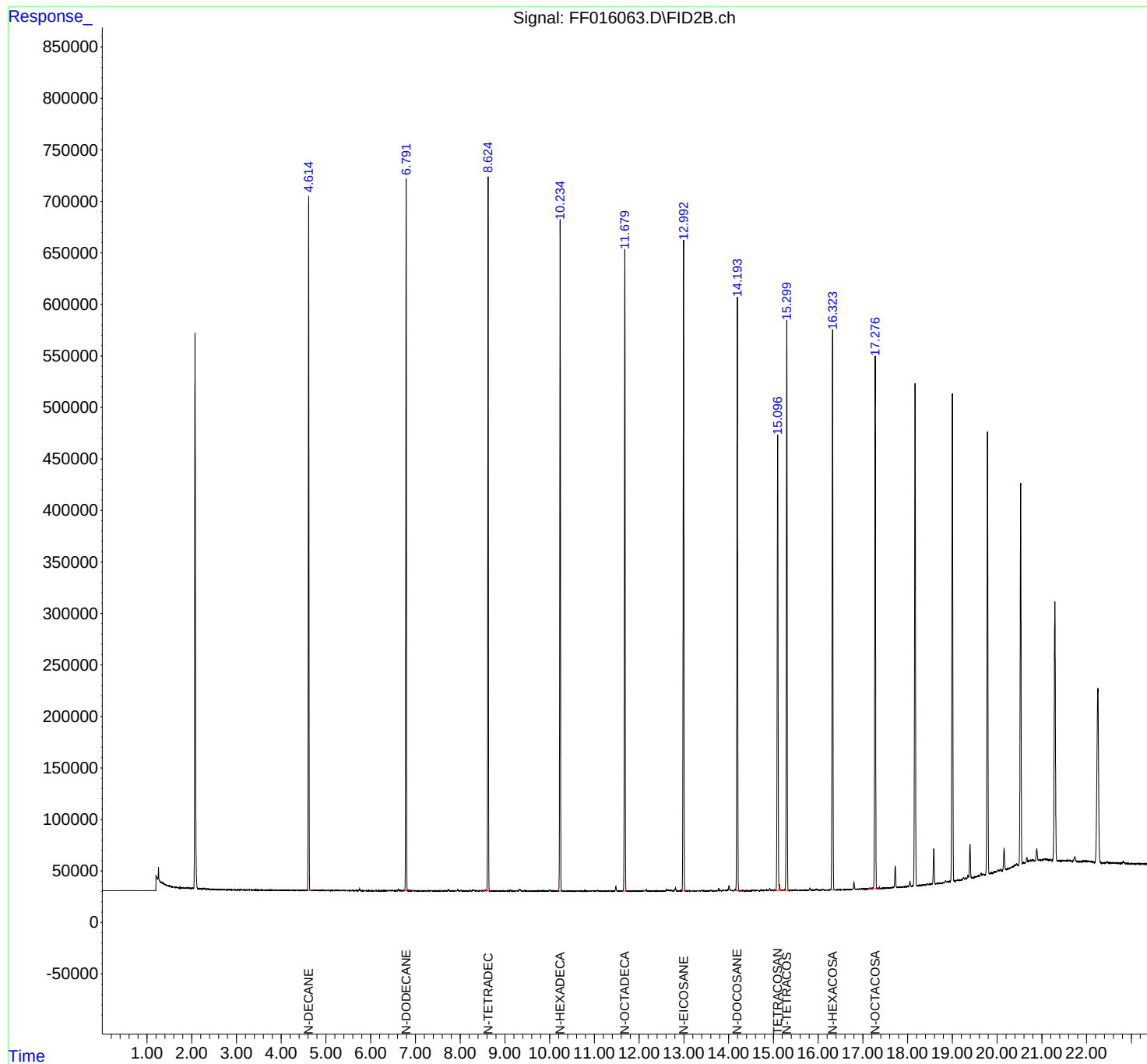
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016063.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 11:53
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 03 03:19:49 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\FF070225\
Data File : FF016063.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 11:53
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	4.614	4.581	4.672	BB	674723	6877294	94.04%	8.961%
2	6.792	6.754	6.839	BB	692205	7031467	96.15%	9.162%
3	8.625	8.511	8.677	BB	693604	7134739	97.56%	9.297%
4	10.234	10.184	10.284	BB	652624	7154891	97.84%	9.323%
5	11.680	11.617	11.717	BB	624046	7271318	99.43%	9.475%
6	12.993	12.952	13.047	BB	631543	7312900	100.00%	9.529%
7	14.194	14.156	14.242	VB	577111	7053886	96.46%	9.191%
8	15.096	14.997	15.127	BV	441575	6168210	84.35%	8.037%
9	15.299	15.171	15.354	BB	551666	6995959	95.67%	9.116%
10	16.323	16.257	16.367	BB	545940	6886331	94.17%	8.973%
11	17.276	17.111	17.341	BV	517127	6856843	93.76%	8.935%
Sum of corrected areas:						76743838		

FF061325.M Thu Jul 03 04:23:17 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.: Q2458
DataFile: FF016074.D Analyst Name: YP\AJ Analyst Date: 07-02-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65207896	130416	134918	3.337

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
 Data File : FF016074.D
 Signal(s) : FID2B.ch
 Acq On : 02 Jul 2025 18:06
 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 03 03:22:06 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	5642914	46.734 ug/ml
Target Compounds			
2) N-DECANE	4.617	6760199	51.596 ug/ml
3) N-DODECANE	6.794	6631129	49.799 ug/ml
4) N-TETRADECANE	8.626	6539598	48.794 ug/ml
5) N-HEXADECANE	10.235	6480698	47.986 ug/ml
6) N-OCTADECANE	11.681	6566188	47.364 ug/ml
7) N-EICOSANE	12.993	6621309	47.418 ug/ml
8) N-DOCOSANE	14.193	6424144	47.282 ug/ml
10) N-TETRACOSANE	15.299	6426533	47.418 ug/ml
11) N-HEXACOSANE	16.322	6370546	47.458 ug/ml
12) N-OCTACOSANE	17.274	6387552	48.384 ug/ml

(f)=RT Delta > 1/2 Window

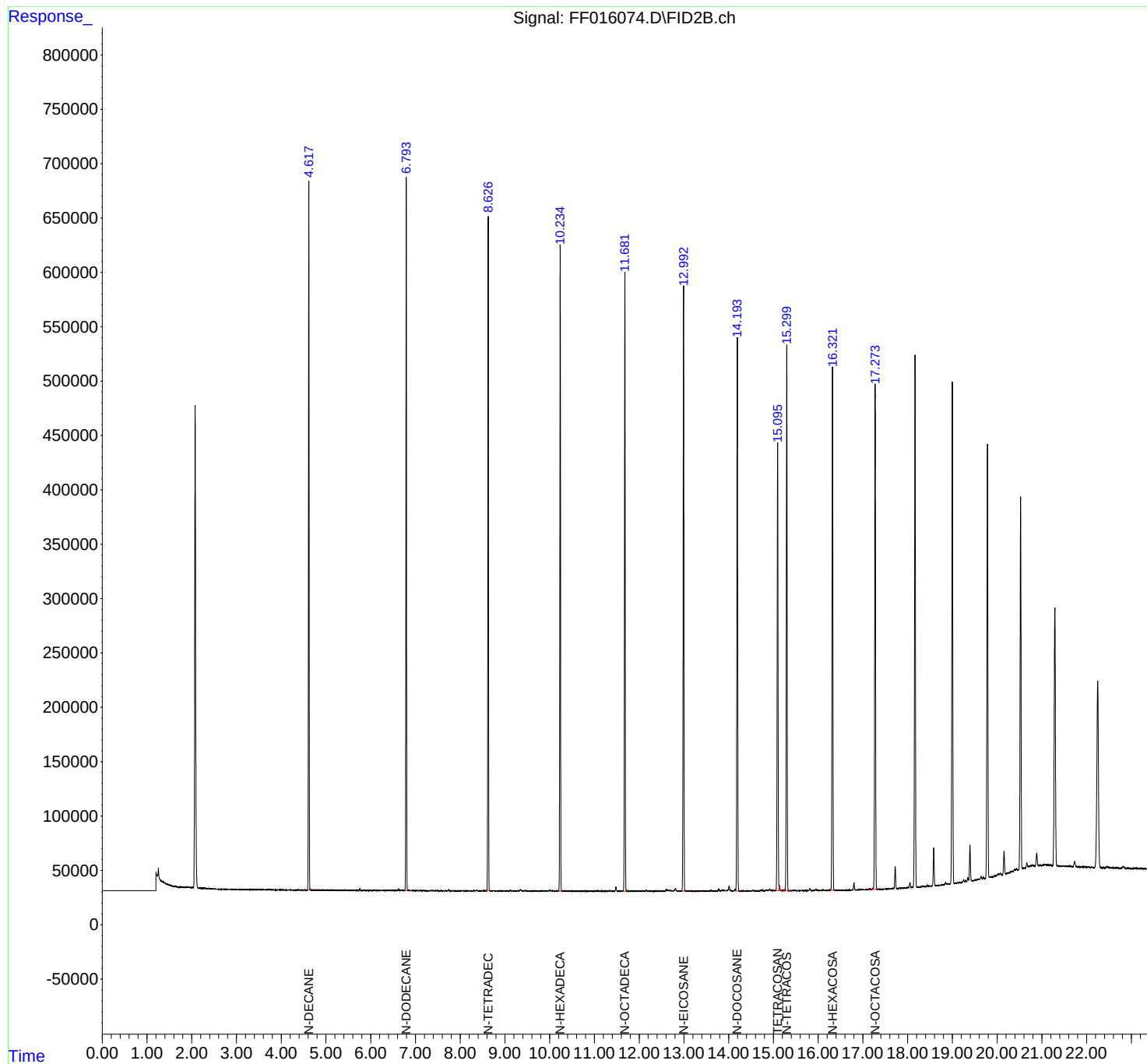
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016074.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 18:06
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 03 03:22:06 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\FF070225\
Data File : FF016074.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 18:06
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	4.617	4.577	4.675	BB	652183	6760199	100.00%	9.541%
2	6.794	6.757	6.842	BB	656731	6631129	98.09%	9.359%
3	8.626	8.567	8.675	BB	619308	6539598	96.74%	9.230%
4	10.235	10.194	10.280	BB	591114	6480698	95.87%	9.147%
5	11.681	11.625	11.727	BB	567514	6566188	97.13%	9.268%
6	12.993	12.949	13.044	BB	555776	6621309	97.95%	9.345%
7	14.193	14.156	14.247	VB	510373	6424144	95.03%	9.067%
8	15.094	15.049	15.127	BV	410891	5642914	83.47%	7.965%
9	15.299	15.165	15.352	VB	502120	6426533	95.06%	9.071%
10	16.322	16.272	16.375	BB	480204	6370546	94.24%	8.991%
11	17.274	17.115	17.327	BB	465295	6387552	94.49%	9.015%
Sum of corrected areas:						70850809		

FF061325.M Thu Jul 03 04:29:56 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.: Q2458
DataFile: FF016086.D Analyst Name: YP\AJ Analyst Date: 07-03-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	72212687	144425	134918	7.047

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
 Data File : FF016086.D
 Signal(s) : FID2B.ch
 Acq On : 03 Jul 2025 00:34
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 50 PPM TRPH STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/03/2025
 Supervised By :mohammad ahmed 07/04/2025

Integration File: autoint1.e
 Quant Time: Jul 03 03:24:44 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	6281883	52.026 ug/ml
Target Compounds			
2) N-DECANE	4.622	7182399	54.818 ug/ml
3) N-DODECANE	6.799	7232300	54.313 ug/ml
4) N-TETRADECANE	8.632	7261118	54.178 ug/ml
5) N-HEXADECANE	10.242	7288712	53.968 ug/ml
6) N-OCTADECANE	11.688	7415021	53.487 ug/ml
7) N-EICOSANE	13.000	7472610	53.514 ug/ml
8) N-DOCOSANE	14.202	7210488	53.070 ug/ml
10) N-TETRACOSANE	15.308	7136812	52.659 ug/ml
11) N-HEXACOSANE	16.331	7018617	52.286 ug/ml
12) N-OCTACOSANE	17.284	6994610	52.982 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016086.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 00:34
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

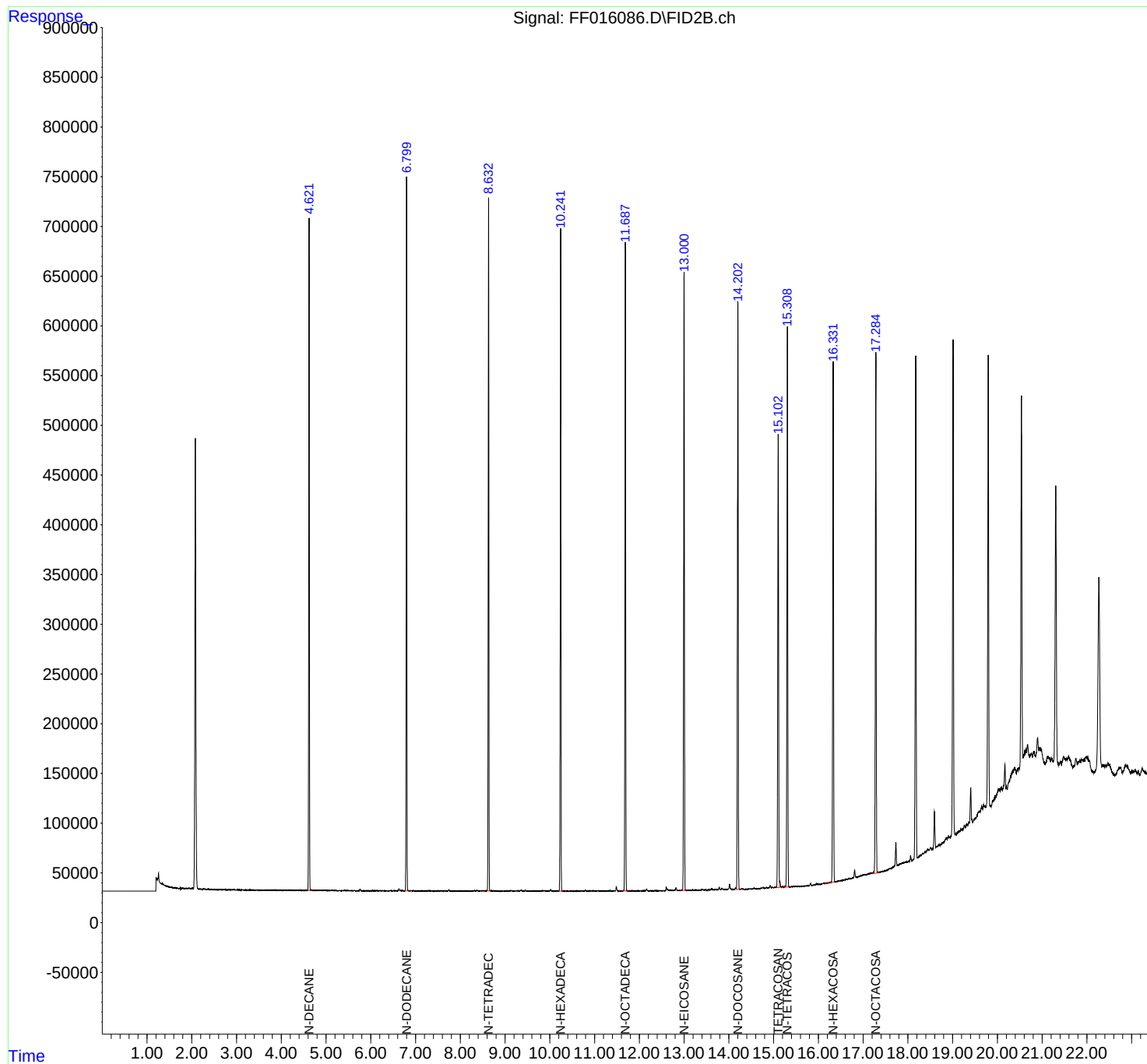
Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/03/2025
Supervised By :mohammad ahmed 07/04/2025

Integration File: autoint1.e
Quant Time: Jul 03 03:24:44 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

Instrument :

FID_F

LabSampleId :

50 PPM TRPH STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/03/2025

Supervised By :mohammad ahmed 07/04/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF07022
Data File : FF016086.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 00:34
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	4.586	4.679	BB	677047	7182399	96.12%	9.136%
2	6.799	6.764	6.849	BB	717741	7232300	96.78%	9.199%
3	8.632	8.596	8.676	BB	695900	7261118	97.17%	9.236%
4	10.242	10.197	10.292	BB	664441	7288712	97.54%	9.271%
5	11.688	11.604	11.732	BB	651608	7415021	99.23%	9.432%
6	13.000	12.934	13.066	BB	622946	7472610	100.00%	9.505%
7	14.202	14.164	14.244	VB	589786	7210488	96.49%	9.172%
8	15.102	15.052	15.135	BV	455201	6281883	84.07%	7.990%
9	15.308	15.214	15.361	BB	562570	7136812	95.51%	9.078%
10	16.331	16.149	16.371	BB	522828	7018617	93.92%	8.928%
11	17.284	16.841	17.347	VB	523113	7117488	95.25%	9.053%
Sum of corrected areas:						78617448		

FF061325.M Thu Jul 03 04:33:13 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.: Q2458
DataFile: FF016089.D Analyst Name: YP\AJ Analyst Date: 07-03-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	74529678	149059	134918	10.481

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\
 Data File : FF016089.D
 Signal(s) : FID2B.ch
 Acq On : 03 Jul 2025 09:08
 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 04 03:46:52 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...	15.103	6525376	54.043 ug/ml
Target Compounds			
2) N-DECANE	4.620	7210487	55.033 ug/ml
3) N-DODECANE	6.798	7378351	55.410 ug/ml
4) N-TETRADECANE	8.632	7500009	55.960 ug/ml
5) N-HEXADECANE	10.241	7578487	56.114 ug/ml
6) N-OCTADECANE	11.688	7731240	55.768 ug/ml
7) N-EICOSANE	13.000	7794247	55.818 ug/ml
8) N-DOCOSANE	14.202	7499641	55.198 ug/ml
10) N-TETRACOSANE	15.309	7392302	54.544 ug/ml
11) N-HEXACOSANE	16.333	7262073	54.099 ug/ml
12) N-OCTACOSANE	17.285	7182841	54.408 ug/ml

(f)=RT Delta > 1/2 Window

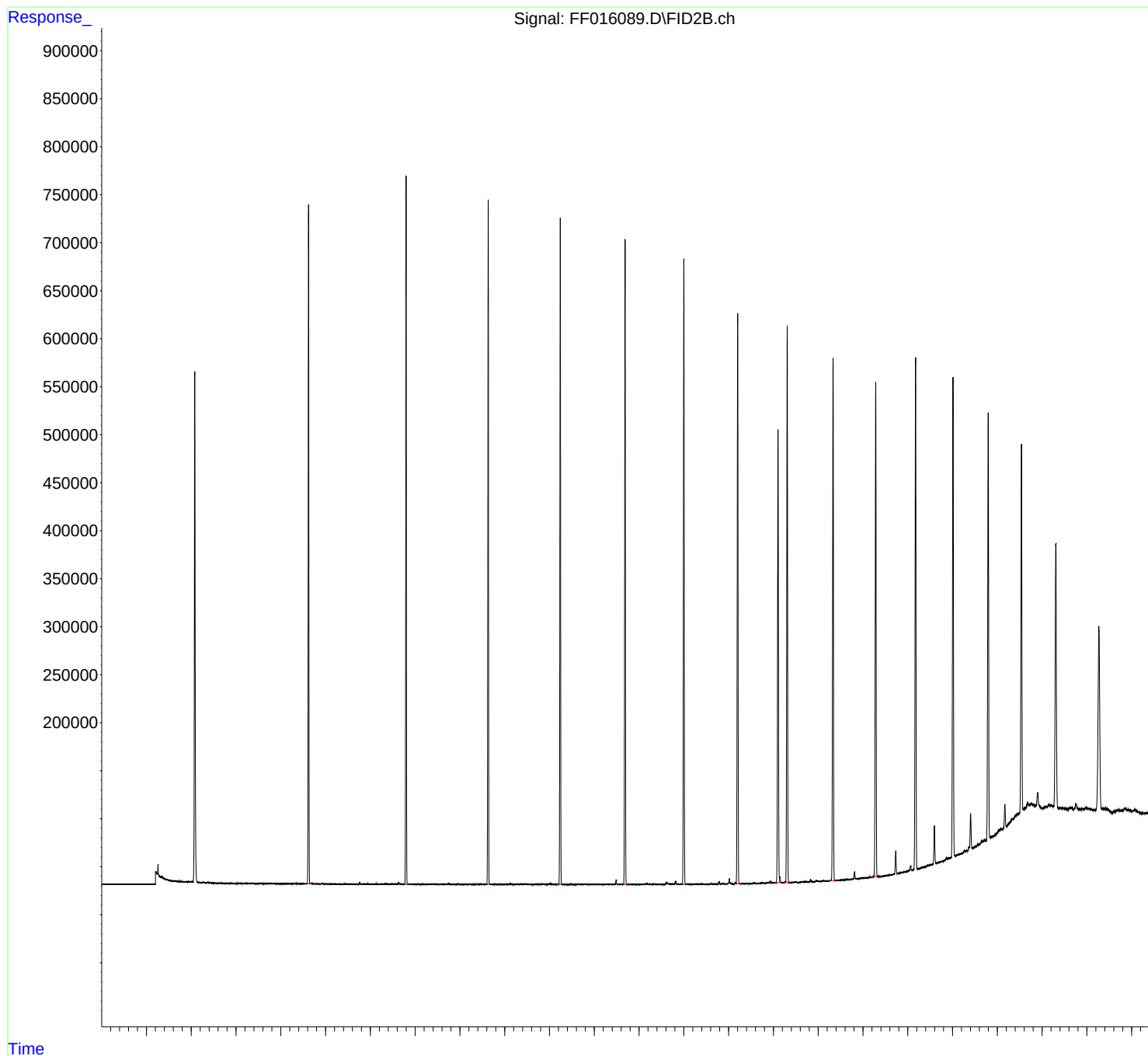
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\
Data File : FF016089.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 09:08
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 04 03:46:52 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\

Data File : FF016089.D

Signal(s) : FID2B.ch

Acq On : 03 Jul 2025 09:08

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	4.582	4.681	BB	707519	7210487	92.51%	8.896%
2	6.798	6.759	6.839	BB	736386	7378351	94.66%	9.103%
3	8.632	8.596	8.667	BB	713556	7500009	96.22%	9.253%
4	10.241	10.152	10.294	BB	693290	7578487	97.23%	9.350%
5	11.688	11.647	11.737	BB	667240	7731240	99.19%	9.538%
6	13.000	12.959	13.056	BB	652395	7794247	100.00%	9.616%
7	14.202	14.165	14.254	VB	594157	7499641	96.22%	9.253%
8	15.103	15.042	15.135	BV	470429	6525376	83.72%	8.051%
9	15.309	15.269	15.357	VB	580221	7392302	94.84%	9.120%
10	16.333	16.251	16.389	BB	543936	7262073	93.17%	8.959%
11	17.285	17.187	17.327	BB	513875	7182841	92.16%	8.862%

Sum of corrected areas: 81055054

FF061325.M Fri Jul 04 04:38:26 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.: Q2458
DataFile: FF016095.D Analyst Name: YP\AJ Analyst Date: 07-03-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	76560914	153122	134918	13.493

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\
 Data File : FF016095.D
 Signal(s) : FID2B.ch
 Acq On : 03 Jul 2025 12:17
 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 04 03:48:11 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...	15.105	6712510	55.593 ug/ml
Target Compounds			
2) N-DECANE	4.621	7401434	56.490 ug/ml
3) N-DODECANE	6.799	7568702	56.840 ug/ml
4) N-TETRADECANE	8.632	7691540	57.389 ug/ml
5) N-HEXADECANE	10.243	7772887	57.553 ug/ml
6) N-OCTADECANE	11.688	7936662	57.250 ug/ml
7) N-EICOSANE	13.002	8003571	57.317 ug/ml
8) N-DOCOSANE	14.203	7709043	56.739 ug/ml
10) N-TETRACOSANE	15.310	7625270	56.263 ug/ml
11) N-HEXACOSANE	16.333	7463601	55.601 ug/ml
12) N-OCTACOSANE	17.287	7388204	55.963 ug/ml

(f)=RT Delta > 1/2 Window

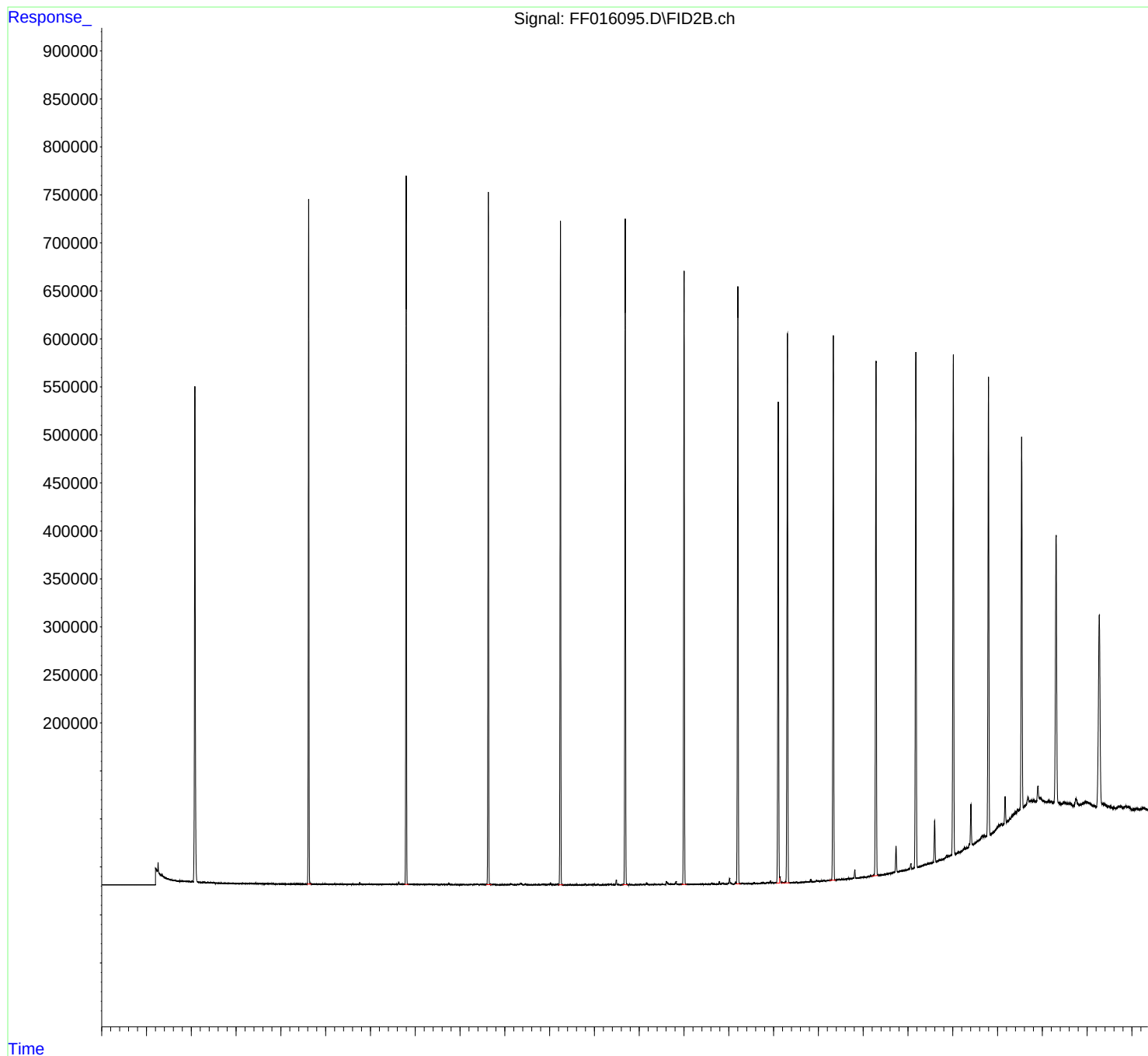
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\
Data File : FF016095.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 12:17
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 04 03:48:11 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\

Data File : FF016095.D

Signal(s) : FID2B.ch

Acq On : 03 Jul 2025 12:17

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	4.621	4.585	4.675	BB	711472	7401434	92.48%	8.888%
2	6.799	6.762	6.839	BB	738323	7568702	94.57%	9.089%
3	8.632	8.589	8.687	BB	721130	7691540	96.10%	9.236%
4	10.243	10.200	10.290	BB	689870	7772887	97.12%	9.334%
5	11.688	11.630	11.723	BB	694680	7936662	99.16%	9.531%
6	13.002	12.950	13.060	BB	636992	8003571	100.00%	9.611%
7	14.203	14.166	14.245	VB	619188	7709043	96.32%	9.258%
8	15.105	15.062	15.136	BV	500405	6712510	83.87%	8.061%
9	15.310	15.174	15.347	VB	573610	7625270	95.27%	9.157%
10	16.333	16.250	16.375	BB	567143	7463601	93.25%	8.963%
11	17.287	17.192	17.325	BB	536282	7388204	92.31%	8.872%

Sum of corrected areas: 83273424

FF061325.M Fri Jul 04 04:40:03 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.: Q2458
DataFile: FF016117.D Analyst Name: YP\AJ Analyst Date: 07-09-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	69768852	139538	134918	3.424

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\
Data File : FF016117.D
Signal(s) : FID2B.ch
Acq On : 09 Jul 2025 10:02
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 10 02:50:10 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	6134879	50.809 ug/ml
Target Compounds				
2)	N-DECANE	4.619	7022099	53.595 ug/ml
3)	N-DODECANE	6.798	7037760	52.853 ug/ml
4)	N-TETRADECANE	8.632	7013068	52.327 ug/ml
5)	N-HEXADECANE	10.242	7043348	52.152 ug/ml
6)	N-OCTADECANE	11.689	7170135	51.720 ug/ml
7)	N-EICOSANE	13.003	7187773	51.475 ug/ml
8)	N-DOCOSANE	14.204	6960992	51.234 ug/ml
10)	N-TETRACOSANE	15.312	6913832	51.014 ug/ml
11)	N-HEXACOSANE	16.336	6773079	50.456 ug/ml
12)	N-OCTACOSANE	17.290	6646766	50.347 ug/ml

(f)=RT Delta > 1/2 Window

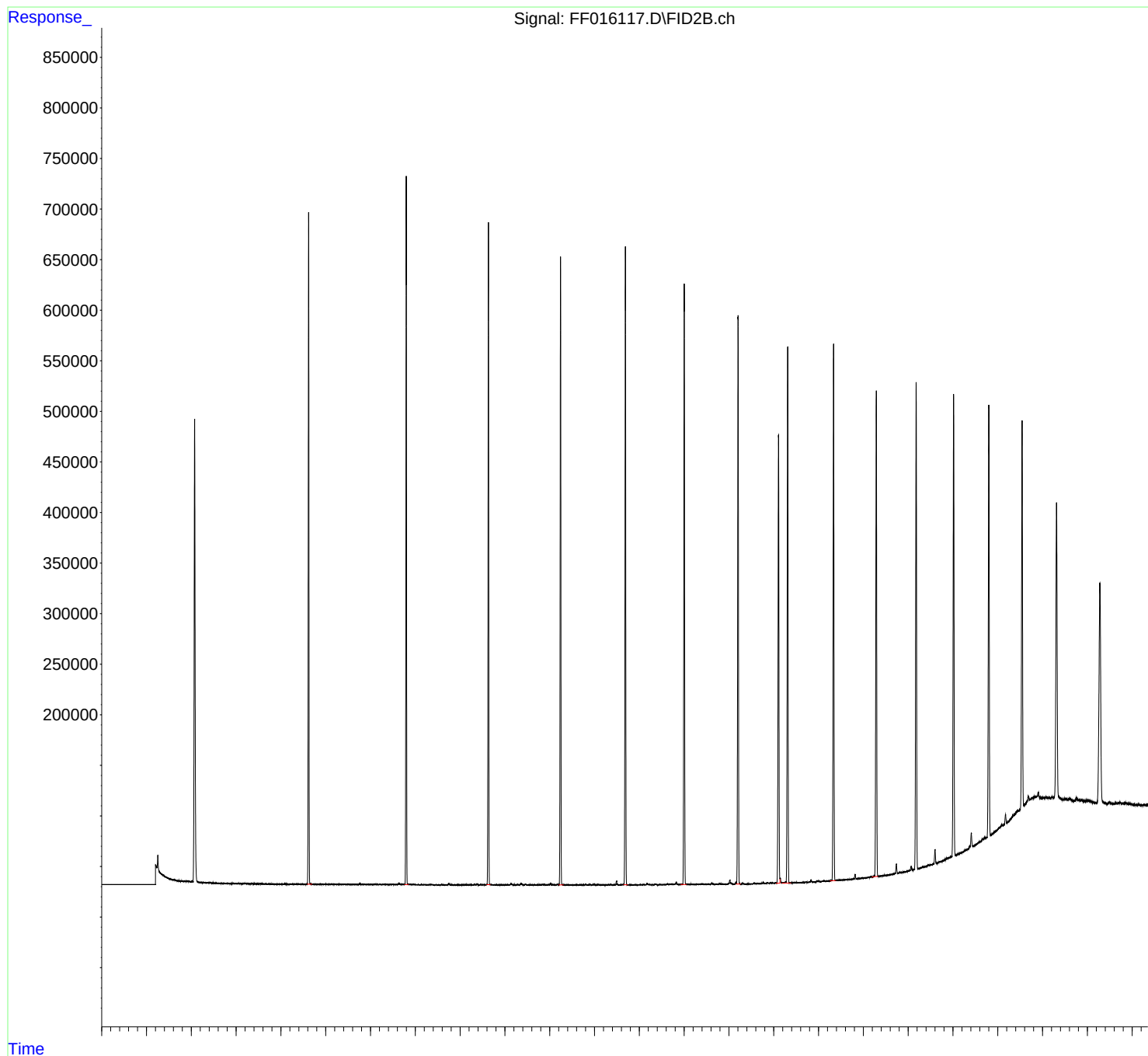
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\
Data File : FF016117.D
Signal(s) : FID2B.ch
Acq On : 09 Jul 2025 10:02
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 10 02:50:10 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\

Data File : FF016117.D

Signal(s) : FID2B.ch

Acq On : 09 Jul 2025 10:02

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	4.619	4.584	4.682	BB	663690	7022099	97.70%	9.251%
2	6.798	6.760	6.850	BB	697013	7037760	97.91%	9.272%
3	8.632	8.592	8.674	BB	655122	7013068	97.57%	9.239%
4	10.242	10.202	10.294	BB	619336	7043348	97.99%	9.279%
5	11.689	11.650	11.739	BB	627998	7170135	99.75%	9.446%
6	13.003	12.925	13.054	BB	594813	7187773	100.00%	9.470%
7	14.204	14.168	14.246	VB	561447	6960992	96.84%	9.171%
8	15.107	15.055	15.139	BV	443468	6134879	85.35%	8.082%
9	15.312	15.185	15.370	BB	529448	6913832	96.19%	9.109%
10	16.336	16.255	16.375	BB	526626	6773079	94.23%	8.923%
11	17.290	17.192	17.326	BB	482158	6646766	92.47%	8.757%

Sum of corrected areas: 75903732

FF061325.M Thu Jul 10 03:32:11 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.: Q2458
DataFile: FF016127.D Analyst Name: YP\AJ Analyst Date: 07-09-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	70910876	141822	134918	5.117

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\
 Data File : FF016127.D
 Signal(s) : FID2B.ch
 Acq On : 09 Jul 2025 17:06
 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 10 02:52:09 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	6207401	51.410 ug/ml
Target Compounds			
2) N-DECANE	4.617	7205553	54.995 ug/ml
3) N-DODECANE	6.796	7202488	54.090 ug/ml
4) N-TETRADECANE	8.630	7151306	53.358 ug/ml
5) N-HEXADECANE	10.240	7151442	52.952 ug/ml
6) N-OCTADECANE	11.687	7271790	52.454 ug/ml
7) N-EICOSANE	13.001	7280266	52.137 ug/ml
8) N-DOCOSANE	14.203	7048119	51.875 ug/ml
10) N-TETRACOSANE	15.309	6996682	51.625 ug/ml
11) N-HEXACOSANE	16.333	6862594	51.123 ug/ml
12) N-OCTACOSANE	17.286	6740636	51.058 ug/ml

(f)=RT Delta > 1/2 Window

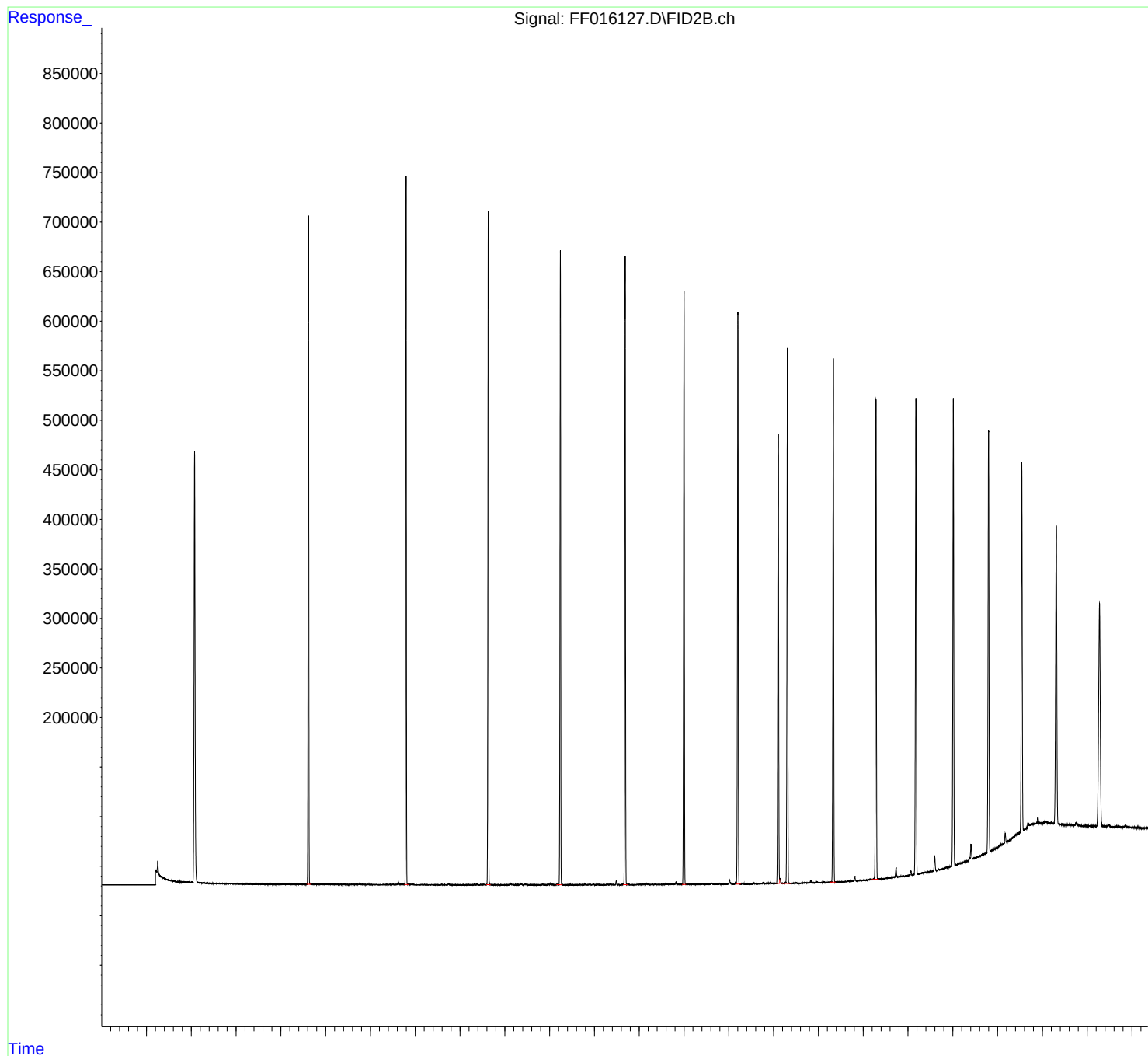
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\
Data File : FF016127.D
Signal(s) : FID2B.ch
Acq On : 09 Jul 2025 17:06
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 10 02:52:09 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\

Data File : FF016127.D

Signal(s) : FID2B.ch

Acq On : 09 Jul 2025 17:06

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	4.617	4.579	4.677	BB	675321	7205553	98.97%	9.344%
2	6.796	6.761	6.844	BB	714207	7202488	98.93%	9.340%
3	8.630	8.589	8.679	BB	681734	7151306	98.23%	9.273%
4	10.240	10.154	10.279	BB	638257	7151442	98.23%	9.273%
5	11.687	11.644	11.737	BB	634583	7271790	99.88%	9.429%
6	13.001	12.961	13.042	BB	598467	7280266	100.00%	9.440%
7	14.203	14.166	14.249	VB	577215	7048119	96.81%	9.139%
8	15.104	15.047	15.136	BV	451439	6207401	85.26%	8.049%
9	15.309	15.181	15.364	BB	540416	6996682	96.10%	9.073%
10	16.333	16.254	16.379	BB	527478	6862594	94.26%	8.899%
11	17.286	17.197	17.344	BB	483959	6740636	92.59%	8.741%

Sum of corrected areas: 77118276

FF061325.M Thu Jul 10 03:34:11 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.: Q2458
DataFile: FG016200.D Analyst Name: YP\AJ Analyst Date: 07-02-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	64913586	129827	130550	0.554

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
 Data File : FG016200.D
 Signal(s) : FID1A.ch
 Acq On : 02 Jul 2025 11:53
 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 03 01:22:30 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...	15.204	5774744	49.230 ug/ml
Target Compounds			
2) N-DECANE	4.675	6376636	50.825 ug/ml
3) N-DODECANE	6.857	6486825	50.836 ug/ml
4) N-TETRADECANE	8.698	6506920	50.421 ug/ml
5) N-HEXADECANE	10.317	6552710	50.204 ug/ml
6) N-OCTADECANE	11.771	6685010	49.917 ug/ml
7) N-EICOSANE	13.091	6709423	49.597 ug/ml
8) N-DOCOSANE	14.299	6513837	49.408 ug/ml
10) N-TETRACOSANE	15.409	6471656	49.128 ug/ml
11) N-HEXACOSANE	16.436	6375051	48.699 ug/ml
12) N-OCTACOSANE	17.393	6235518	48.268 ug/ml

(f)=RT Delta > 1/2 Window

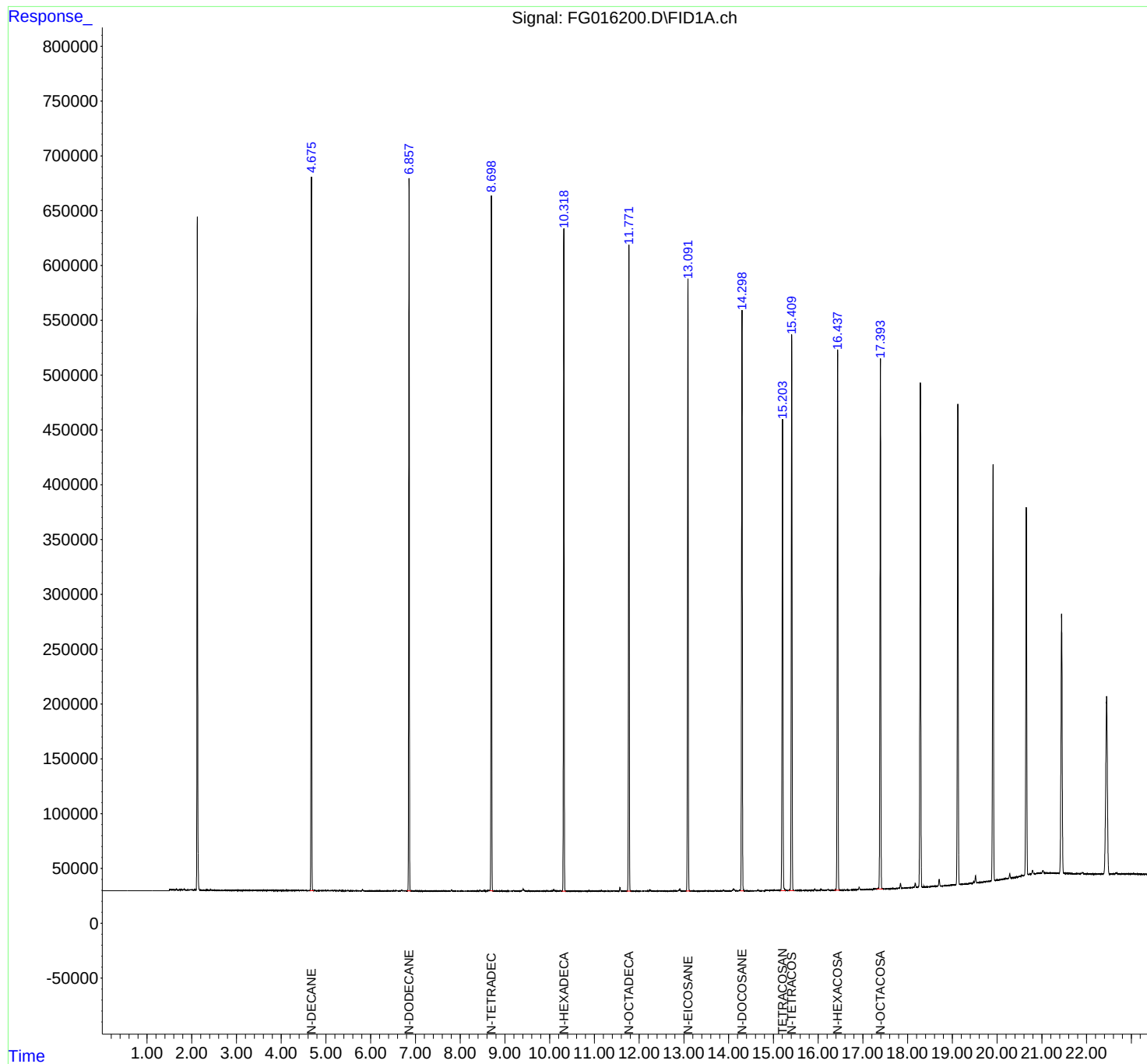
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016200.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 11:53
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 03 01:22:30 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\FG070225\
Data File : FG016200.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 11:53
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	4.675	4.638	4.728	BB	649326	6376636	95.04%	9.021%
2	6.857	6.815	6.902	BB	649393	6486825	96.68%	9.177%
3	8.698	8.663	8.741	BB	632456	6506920	96.98%	9.205%
4	10.317	10.267	10.365	BB	604936	6552710	97.66%	9.270%
5	11.771	11.719	11.819	BB	586366	6685010	99.64%	9.457%
6	13.091	13.047	13.143	BB	558710	6709423	100.00%	9.492%
7	14.299	14.263	14.341	VV	527688	6513837	97.08%	9.215%
8	15.204	15.161	15.277	BV	428942	5774744	86.07%	8.169%
9	15.409	15.337	15.467	BB	505731	6471656	96.46%	9.155%
10	16.436	16.363	16.485	BB	491299	6375051	95.02%	9.019%
11	17.393	17.305	17.449	BB	482134	6235518	92.94%	8.821%
Sum of corrected areas:						70688330		

FG061325.M Thu Jul 03 01:49:40 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.: Q2458
DataFile: FG016208.D Analyst Name: YP\AJ Analyst Date: 07-02-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	63999772	128000	130550	1.953

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
 Data File : FG016208.D
 Signal(s) : FID1A.ch
 Acq On : 02 Jul 2025 19:06
 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 03 01:24:11 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...	15.207	5705081	48.636 ug/ml
Target Compounds			
2) N-DECANE	4.676	6254090	49.848 ug/ml
3) N-DODECANE	6.858	6363352	49.868 ug/ml
4) N-TETRADECANE	8.699	6382162	49.454 ug/ml
5) N-HEXADECANE	10.319	6435012	49.302 ug/ml
6) N-OCTADECANE	11.773	6578293	49.120 ug/ml
7) N-EICOSANE	13.093	6626385	48.983 ug/ml
8) N-DOCOSANE	14.300	6451613	48.936 ug/ml
10) N-TETRACOSANE	15.413	6419221	48.730 ug/ml
11) N-HEXACOSANE	16.440	6322288	48.296 ug/ml
12) N-OCTACOSANE	17.397	6167356	47.740 ug/ml

(f)=RT Delta > 1/2 Window

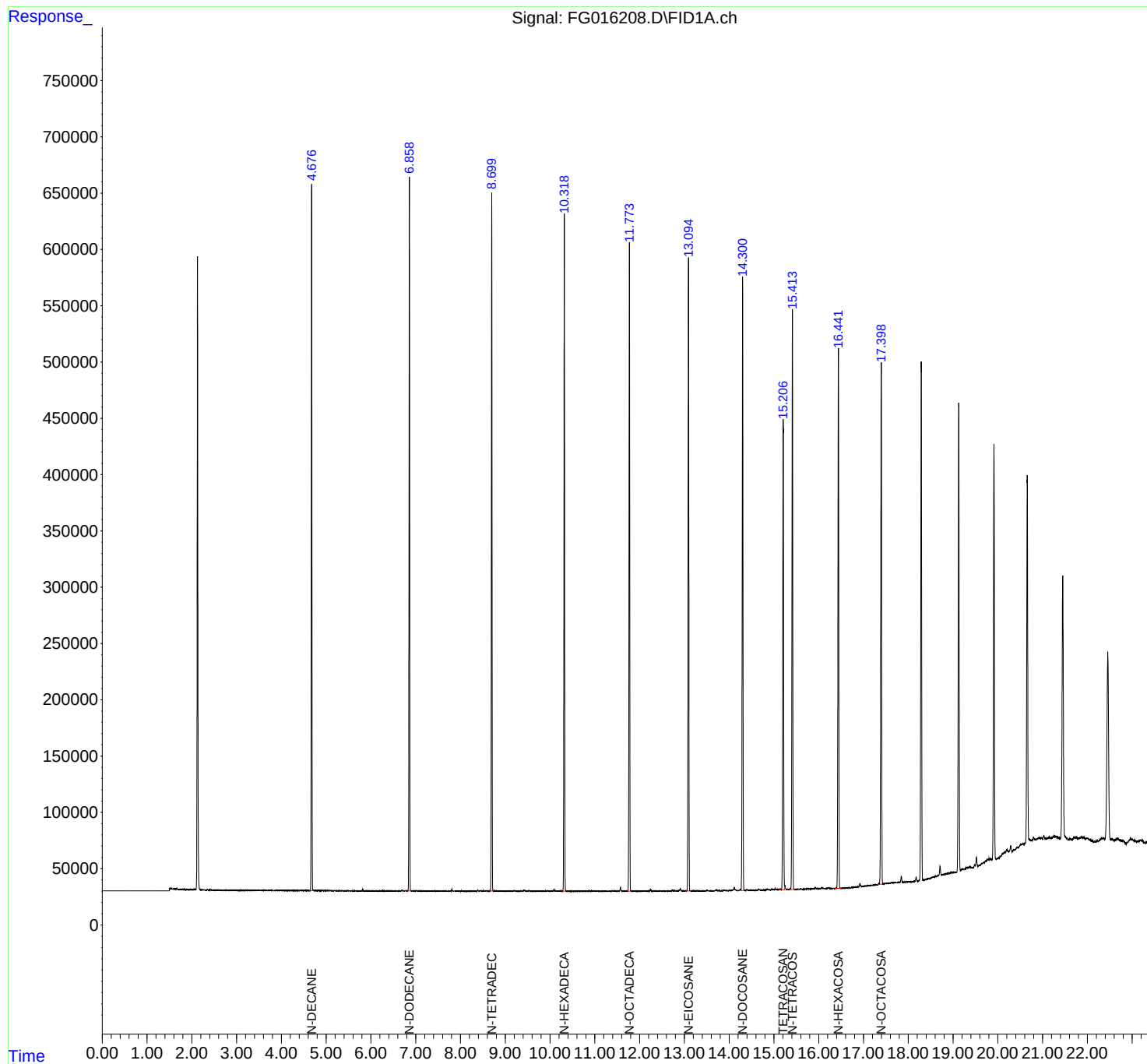
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016208.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 19:06
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 03 01:24:11 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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016208.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 19:06
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	4.676	4.639	4.725	BB	627594	6254090	94.38%	8.972%
2	6.858	6.821	6.898	BB	633777	6363352	96.03%	9.129%
3	8.699	8.652	8.748	BB	619879	6382162	96.31%	9.156%
4	10.319	10.272	10.363	BB	601355	6435012	97.11%	9.232%
5	11.773	11.727	11.809	BB	575404	6578293	99.27%	9.437%
6	13.093	13.047	13.140	BB	559271	6626385	100.00%	9.506%
7	14.300	14.262	14.346	VB	543312	6451613	97.36%	9.256%
8	15.207	15.106	15.239	BV	413273	5705081	86.10%	8.185%
9	15.413	15.334	15.467	BB	515402	6419221	96.87%	9.209%
10	16.440	16.361	16.495	BB	479071	6322288	95.41%	9.070%
11	17.397	17.306	17.433	BB	458613	6167356	93.07%	8.848%
Sum of corrected areas:						69704852		

FG061325.M Thu Jul 03 01:51:29 2025

Analytical Sequence

Client: CDM Smith

SDG No.: Q2458

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	02 Jul 2025 11:18	FF016062.D	15.092	
50 PPM TRPH STD	50 PPM TRPH STD	02 Jul 2025 11:53	FF016063.D	15.096	
PB168697BL	PB168697BL	02 Jul 2025 13:33	FF016065.D	15.089	
FB-06272025	Q2458-10	02 Jul 2025 15:02	FF016068.D	15.092	
PIBLK02	LBLK02	02 Jul 2025 17:36	FF016073.D	15.092	
50 PPM TRPH STD	50 PPM TRPH STD	02 Jul 2025 18:06	FF016074.D	15.094	
PB168701BL	PB168701BL	02 Jul 2025 19:06	FF016075.D	15.092	
PB168701BS	PB168701BS	02 Jul 2025 19:36	FF016076.D	15.091	
TP-76	Q2458-01	02 Jul 2025 20:06	FF016077.D	15.092	
TP-68	Q2458-03	02 Jul 2025 21:05	FF016079.D	15.097	
TP-67	Q2458-04	02 Jul 2025 21:35	FF016080.D	15.050	
TP-67MS	Q2458-04MS	02 Jul 2025 22:05	FF016081.D	15.096	
TP-67MSD	Q2458-04MSD	02 Jul 2025 22:35	FF016082.D	15.095	
PIBLK03	LBLK03	03 Jul 2025 00:04	FF016085.D	15.100	
50 PPM TRPH STD	50 PPM TRPH STD	03 Jul 2025 00:34	FF016086.D	15.102	
PIBLK04	LBLK04	03 Jul 2025 08:38	FF016088.D	15.100	
50 PPM TRPH STD	50 PPM TRPH STD	03 Jul 2025 09:08	FF016089.D	15.103	
TP-55	Q2458-02	03 Jul 2025 10:11	FF016091.D	15.050	
TP-66	Q2458-05	03 Jul 2025 10:47	FF016092.D	15.050	
TP-60	Q2458-06	03 Jul 2025 11:17	FF016093.D	15.052	
PIBLK05	LBLK05	03 Jul 2025 11:47	FF016094.D	15.101	
50 PPM TRPH STD	50 PPM TRPH STD	03 Jul 2025 12:17	FF016095.D	15.105	
PIBLK06	LBLK06	09 Jul 2025 09:32	FF016116.D	15.102	
50 PPM TRPH STD	50 PPM TRPH STD	09 Jul 2025 10:02	FF016117.D	15.107	
PB168697BS	PB168697BS	09 Jul 2025 15:34	FF016124.D	15.102	
PB168697BSD	PB168697BSD	09 Jul 2025 16:06	FF016125.D	15.101	
PIBLK07	LBLK07	09 Jul 2025 16:36	FF016126.D	15.102	
50 PPM TRPH STD	50 PPM TRPH STD	09 Jul 2025 17:06	FF016127.D	15.104	
PIBLK08	LBLK08	02 Jul 2025 11:18	FG016199.D	15.199	
50 PPM TRPH STD	50 PPM TRPH STD	02 Jul 2025 11:53	FG016200.D	15.204	
TP-62	Q2458-07	02 Jul 2025 16:06	FG016202.D	15.199	
TP-63	Q2458-08	02 Jul 2025 16:36	FG016203.D	15.202	
TP-59	Q2458-09	02 Jul 2025 17:06	FG016204.D	15.203	
PIBLK09	LBLK09	02 Jul 2025 18:36	FG016207.D	15.204	
50 PPM TRPH STD	50 PPM TRPH STD	02 Jul 2025 19:06	FG016208.D	15.207	



QC SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168697BL	SDG No.:	Q2458
Lab Sample ID:	PB168697BL	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016065.D	1	07/02/25 09:09	07/02/25 13:33	PB168697

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	16.8		29 - 130	84%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016065.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 13:33
Operator : YP\AJ
Sample : PB168697BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB168697BL

Integration File: autoint1.e
Quant Time: Jul 03 03:20:14 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...	15.089	2029745	16.810 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

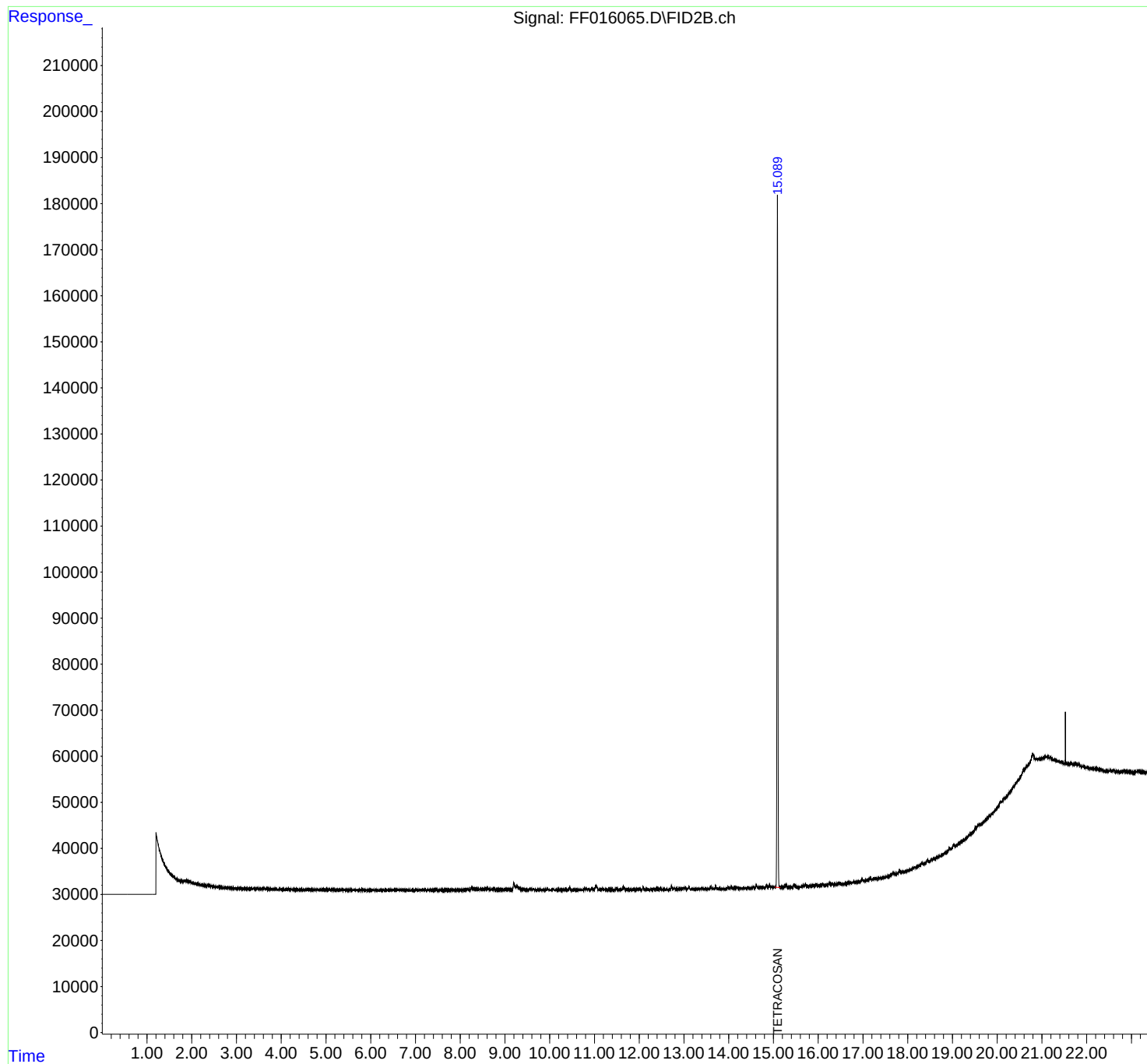
(m)=manual int.

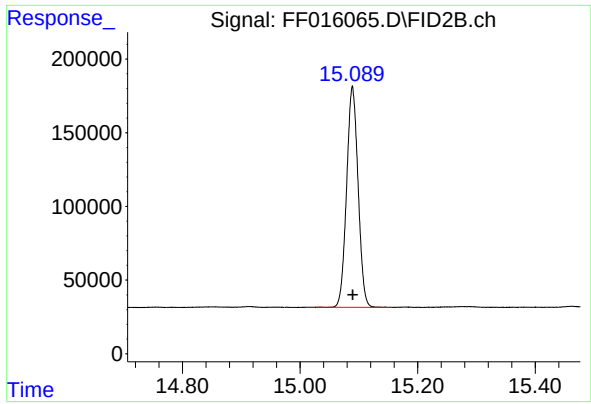
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016065.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 13:33
Operator : YP\AJ
Sample : PB168697BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB168697BL

Integration File: autoint1.e
Quant Time: Jul 03 03:20:14 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.: 15.089 min
Delta R.T.: 0.000 min
Response: 2029745
Conc: 16.81 ug/ml

Instrument :
FID_F
ClientSampleId :
PB168697BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016065.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 13:33
Sample : PB168697BL
Misc :
ALS Vial : 71 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	15.089	15.027	15.156	BB	150136	2029745	100.00%	100.000%
Sum of corrected areas:						2029745		

FF061325.M Thu Jul 03 04:24:29 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168701BL	SDG No.:	Q2458
Lab Sample ID:	PB168701BL	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016075.D	1	07/02/25 09:17	07/02/25 19:06	PB168701

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	15.9		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_F\Data\FF070225\
Data File : FF016075.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 19:06
Operator : YP\AJ
Sample : PB168701BL
Misc :
ALS Vial : 79 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB168701BL

Integration File: autoint1.e
Quant Time: Jul 03 03:22:19 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...	15.092	1916349	15.871 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

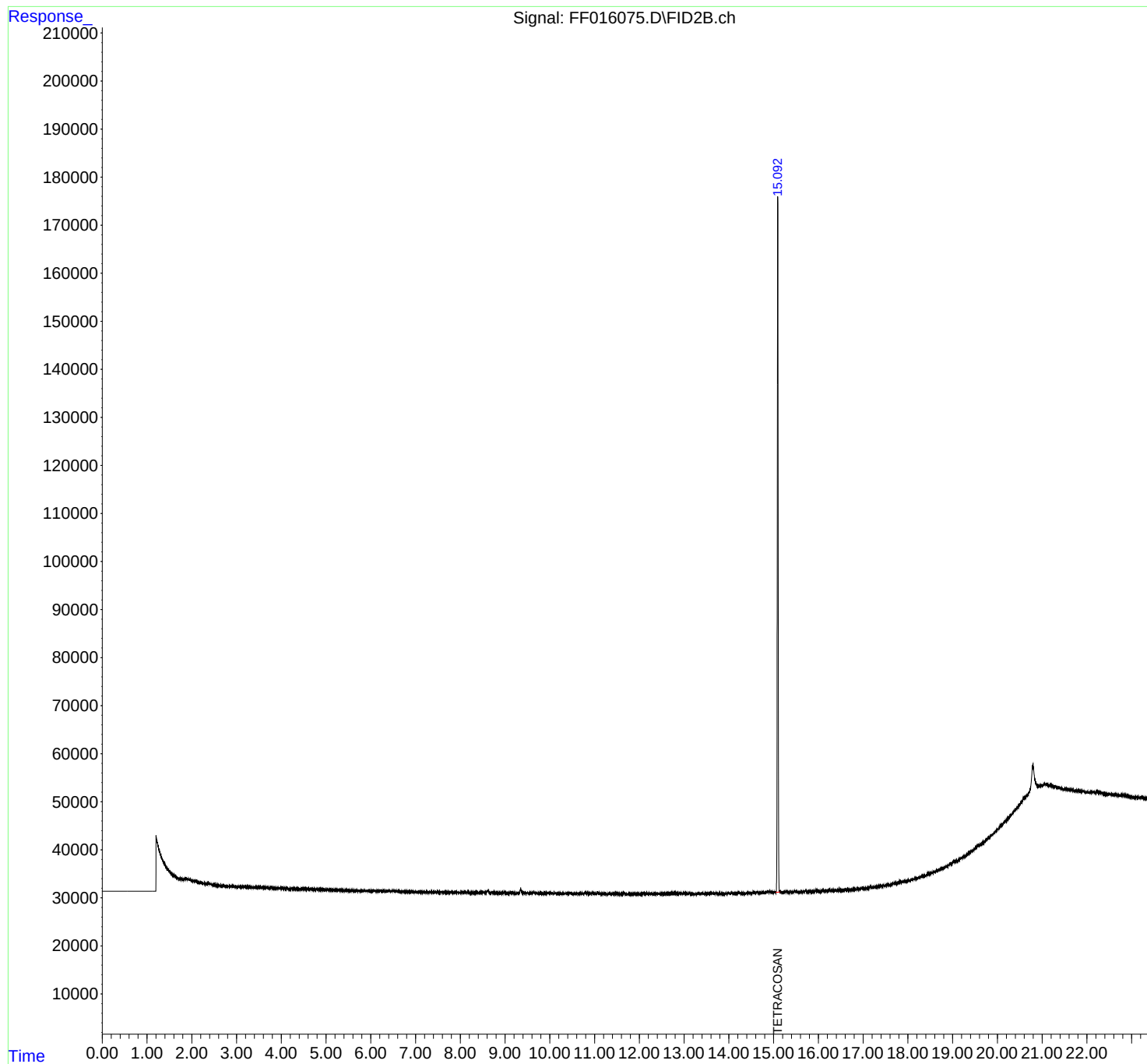
(m)=manual int.

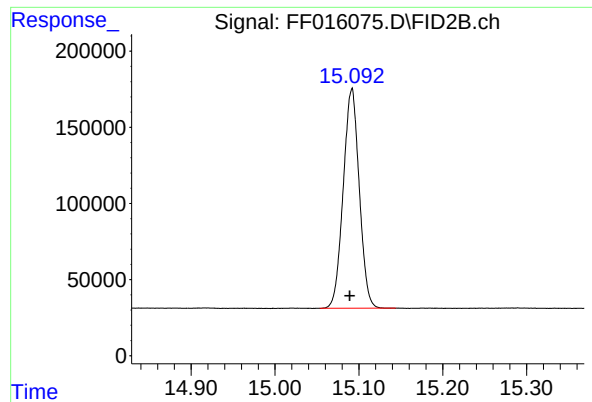
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016075.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 19:06
Operator : YP\AJ
Sample : PB168701BL
Misc :
ALS Vial : 79 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB168701BL

Integration File: autoint1.e
Quant Time: Jul 03 03:22:19 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.: 15.092 min
Delta R.T.: 0.002 min
Response: 1916349
Conc: 15.87 ug/ml

Instrument :
FID_F
ClientSampleId :
PB168701BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016075.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 19:06
Sample : PB168701BL
Misc :
ALS Vial : 79 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	15.092	15.054	15.144	BB	144785	1916349	100.00%	100.000%
Sum of corrected areas:						1916349		

FF061325.M Thu Jul 03 04:30:25 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-FF016062.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016062.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
FF016062.D	1		07/02/25	FF070225

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	17.1		29 - 130	85%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016062.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 11:18
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 03 03:19:38 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...	15.092	2063821	17.093 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

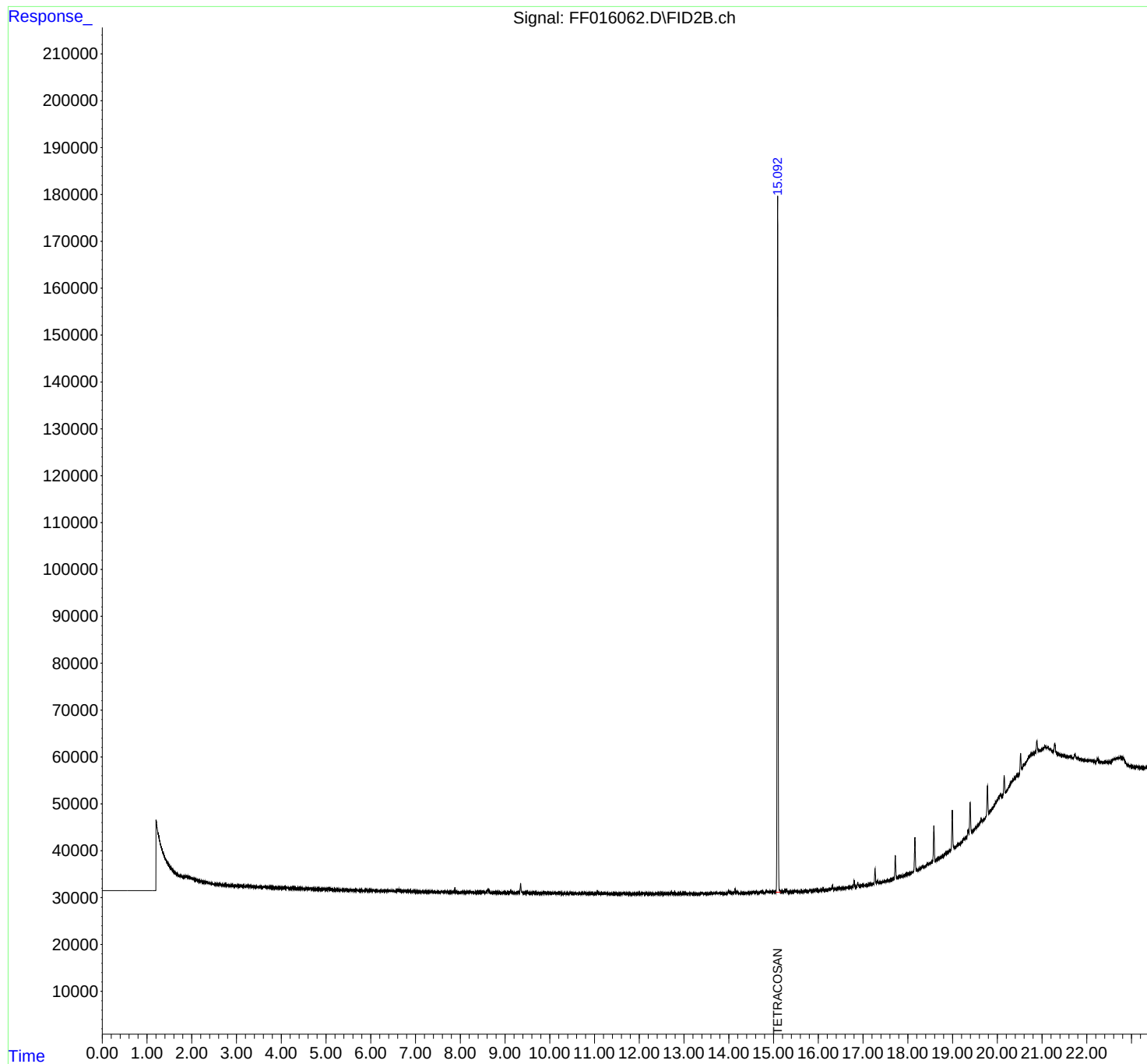
(m)=manual int.

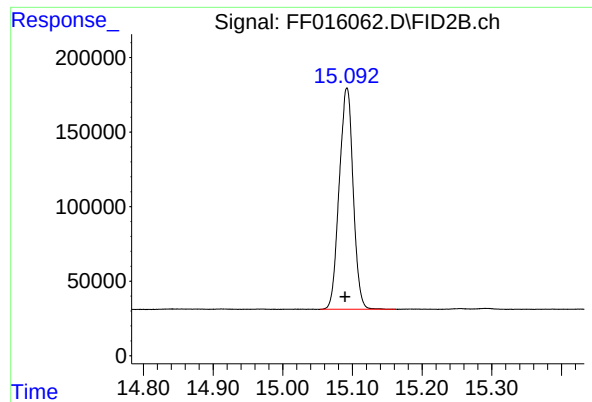
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016062.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 11:18
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 03 03:19:38 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.: 15.092 min
Delta R.T.: 0.003 min
Response: 2063821
Conc: 17.09 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016062.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 11:18
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	15.092	15.054	15.162	BB	148456	2063821	100.00%	100.000%
Sum of corrected areas:						2063821		

FF061325.M Thu Jul 03 04:21:06 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-FF016073.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016073.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
FF016073.D	1		07/02/25	FF070225

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	16.0		29 - 130	80%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016073.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 17:36
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 03 03:21:56 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...	15.092	1936597	16.039 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

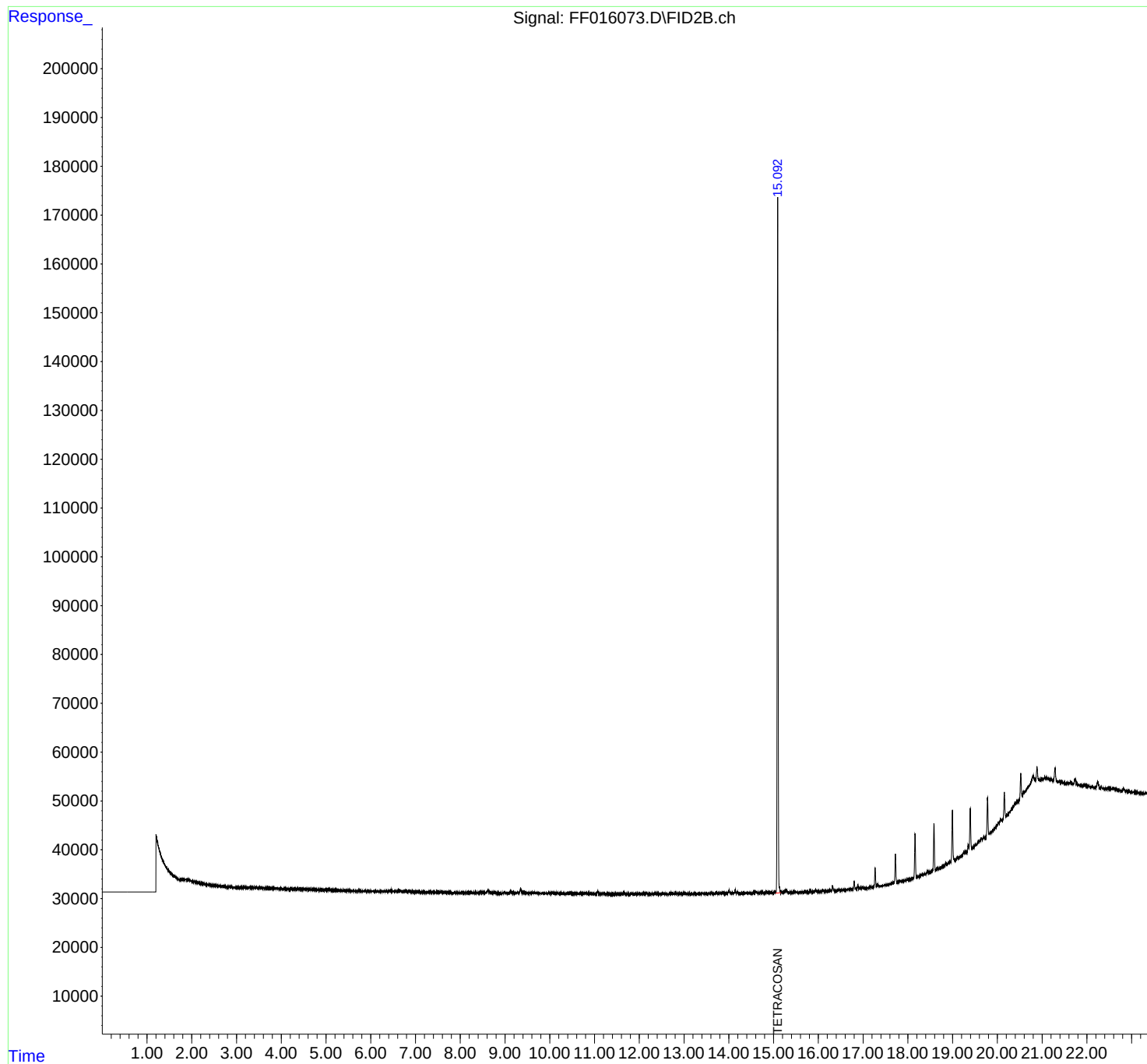
(m)=manual int.

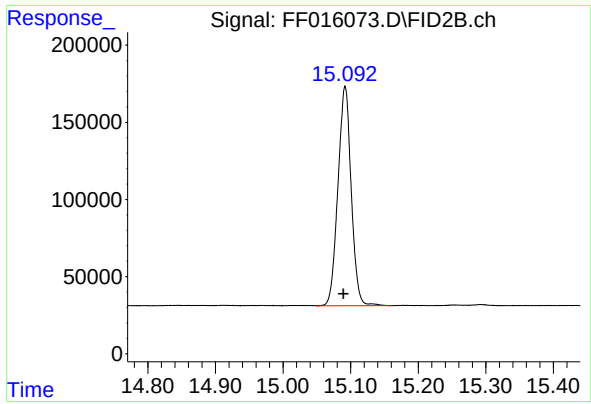
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016073.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 17:36
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 03 03:21:56 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.: 15.092 min
Delta R.T.: 0.003 min
Response: 1936597
Conc: 16.04 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016073.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 17:36
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	15.092	15.049	15.161	BB	142161	1936597	100.00%	100.000%
Sum of corrected areas:						1936597		

FF061325.M Thu Jul 03 04:29:11 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:	PIBLK-FF016085.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016085.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
FF016085.D	1		07/03/25	FF070225

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	17.5		29 - 130	88%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016085.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 00:04
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 03 03:24:33 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...	15.100	2117357	17.536 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

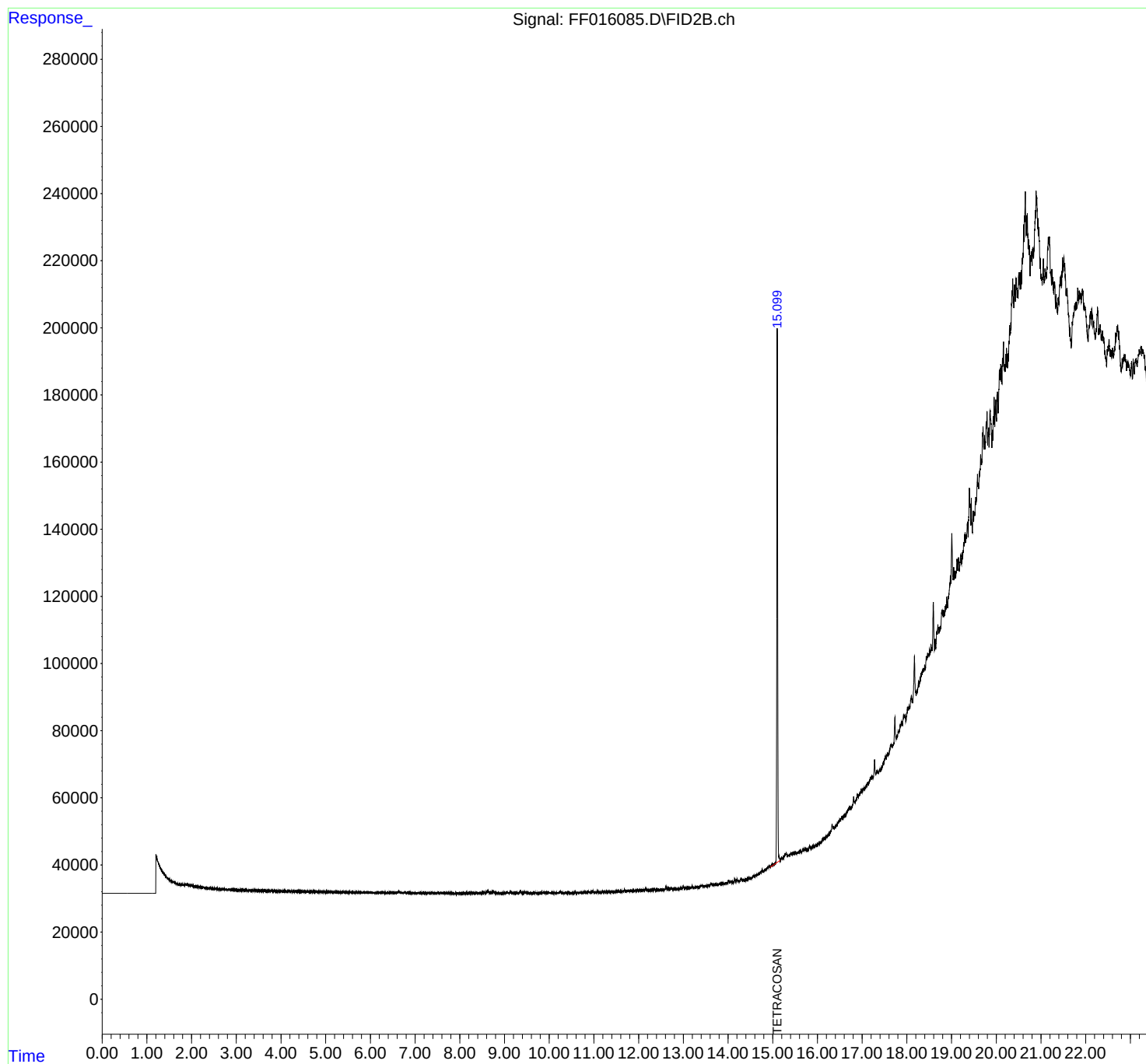
(m)=manual int.

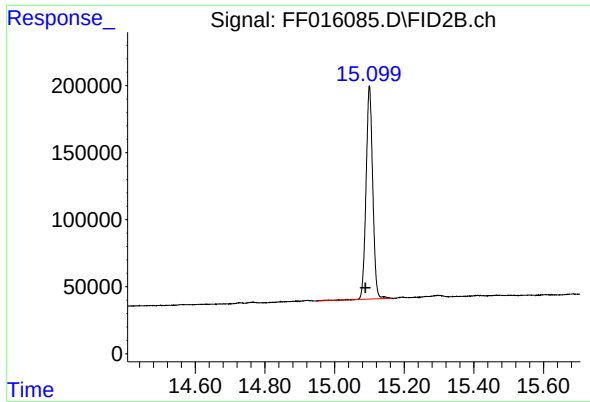
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016085.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 00:04
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 03 03:24:33 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.: 15.100 min
Delta R.T.: 0.011 min
Response: 2117357
Conc: 17.54 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016085.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 00:04
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	15.100	14.947	15.164	BV	158965	2117357	100.00%	100.000%
Sum of corrected areas:						2117357		

FF061325.M Thu Jul 03 04:32:31 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:	PIBLK-FF016088.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016088.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
FF016088.D	1		07/03/25	FF070325

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	24.1		29 - 130	120%	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\FF070325\
Data File : FF016088.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 08:38
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/07/2025
Supervised By :mohammad ahmed 07/08/2025

Integration File: autoint1.e
Quant Time: Jul 04 03:46:38 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...	15.099	2909297	24.095 ug/mlm

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\
Data File : FF016088.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 08:38
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

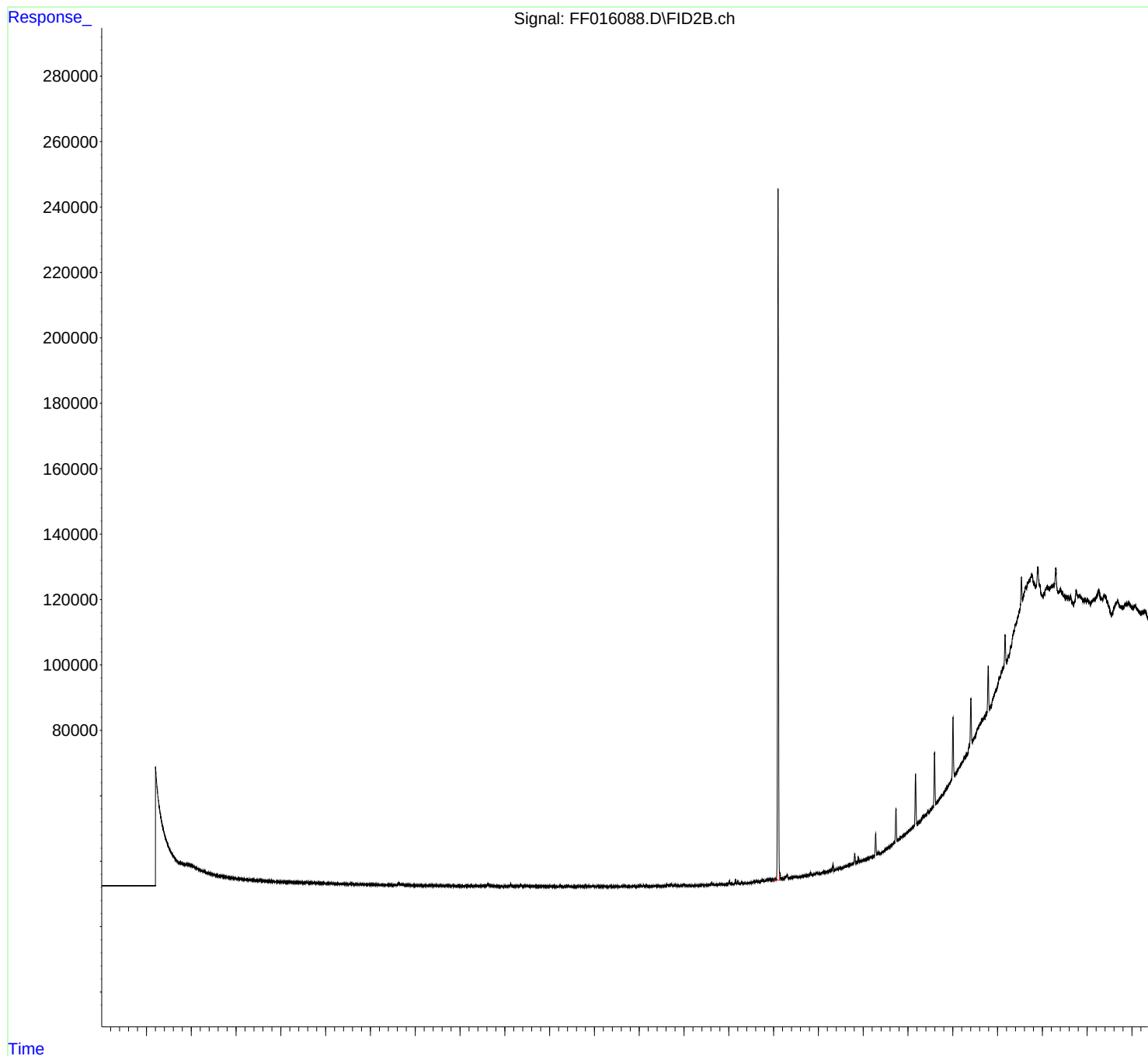
Instrument :
FID_F
ClientSampleId :
I.BLK

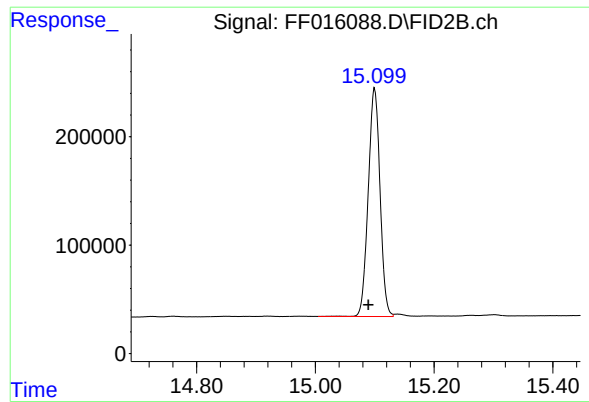
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/07/2025
Supervised By :mohammad ahmed 07/08/2025

Integration File: autoint1.e
Quant Time: Jul 04 03:46:38 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.: 15.099 min
Delta R.T.: 0.010 min
Response: 2909297
Conc: 24.09 ug/ml

Instrument :

FID_F

ClientSampleId :

I.BLK

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/07/2025

Supervised By :mohammad ahmed 07/08/2025

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\
Data File : FF016088.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 08:38
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	15.100	15.004	15.132	BV	209439	2829774	100.00%	100.000%
Sum of corrected areas:						2829774		

FF061325.M Fri Jul 04 04:37:45 2025

Instrument :
FID_F
LabSampleId :
I.BLK

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/07/2025
Supervised By :mohammad ahmed 07/08/2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	PIBLK-FF016094.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016094.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
FF016094.D	1		07/03/25	FF070325

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	17.8		29 - 130	89%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\
Data File : FF016094.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 11:47
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 04 03:47:59 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	2146762	17.779 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

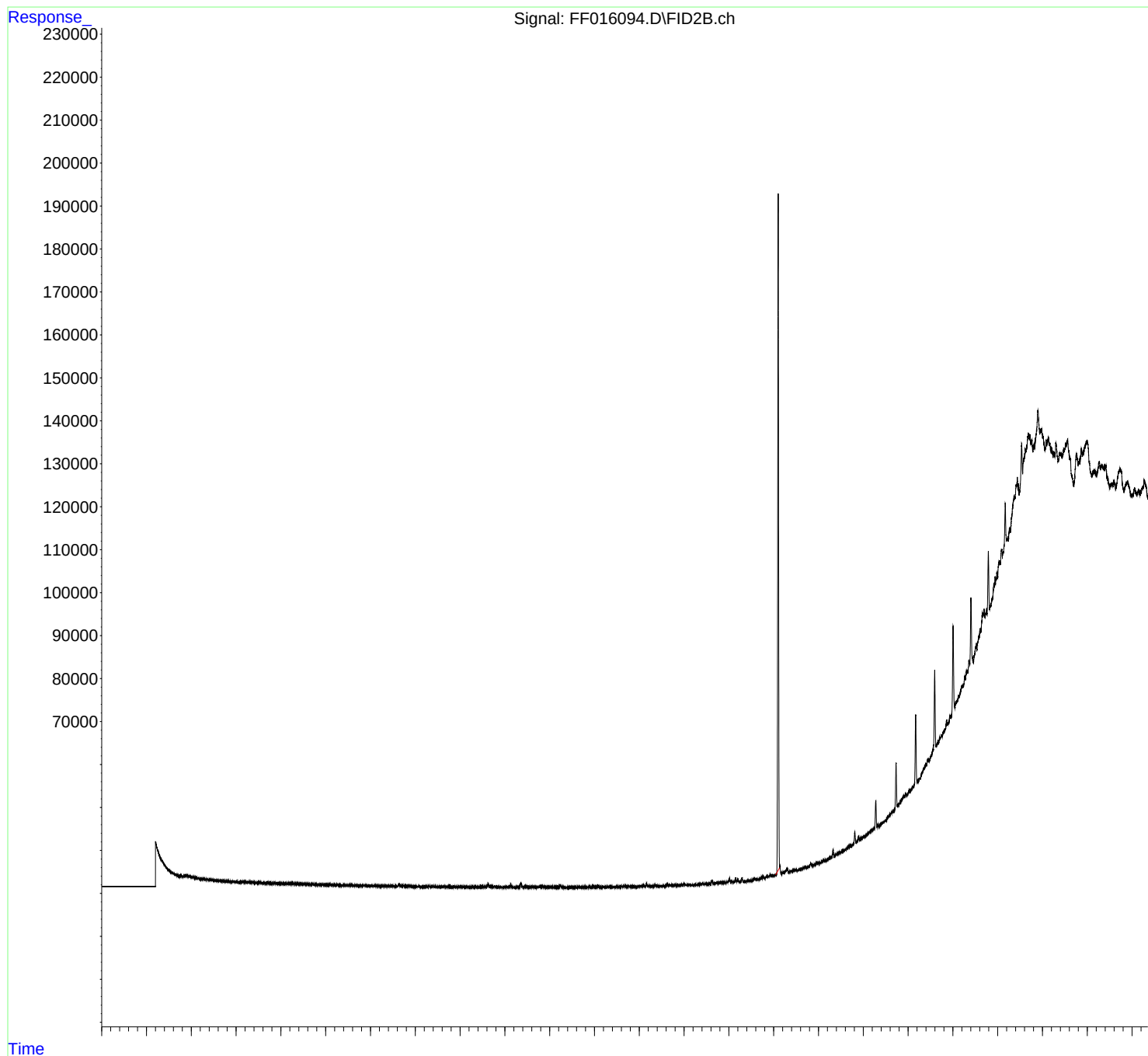
(m)=manual int.

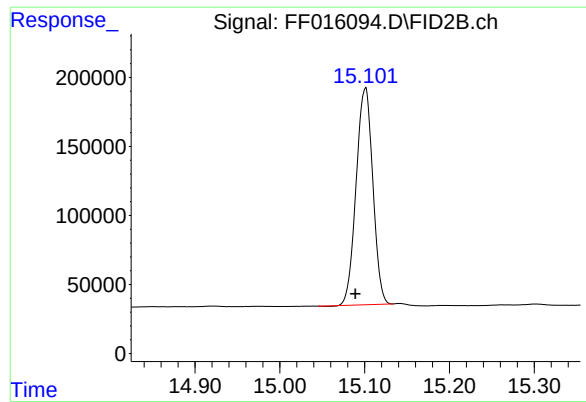
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\
Data File : FF016094.D
Signal(s) : FID2B.ch
Acq On : 03 Jul 2025 11:47
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 04 03:47:59 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: 2146762
Conc: 17.78 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070325\

Data File : FF016094.D

Signal(s) : FID2B.ch

Acq On : 03 Jul 2025 11:47

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	15.101	15.045	15.134	BV	156816	2146762	100.00%	100.000%
Sum of corrected areas:						2146762		

FF061325.M Fri Jul 04 04:39:34 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	PIBLK-FF016116.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016116.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
FF016116.D	1		07/09/25	FF070925

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	20.1		29 - 130	100%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\
Data File : FF016116.D
Signal(s) : FID2B.ch
Acq On : 09 Jul 2025 09:32
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 10 02:49:56 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	2424974	20.084 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

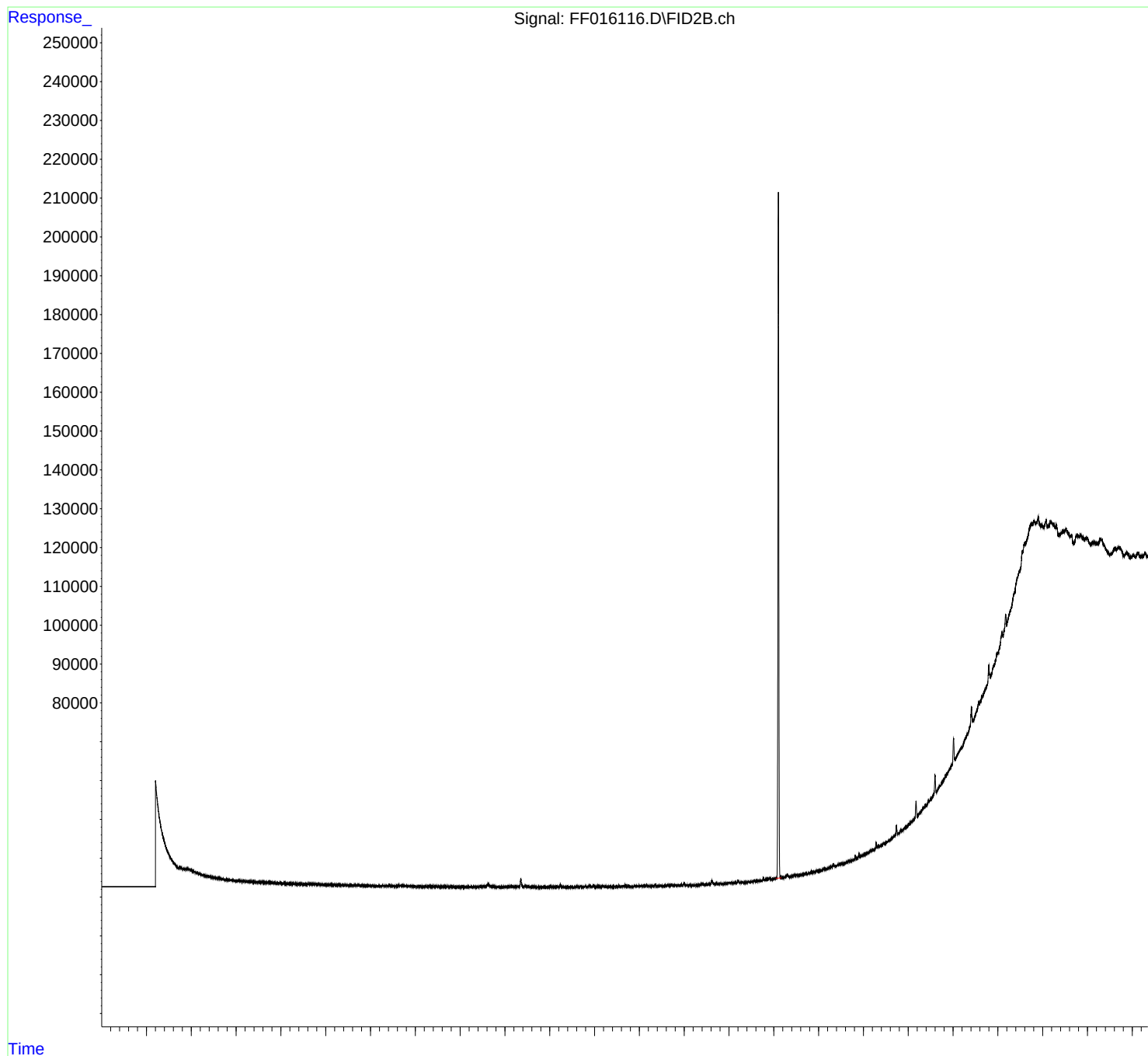
(m)=manual int.

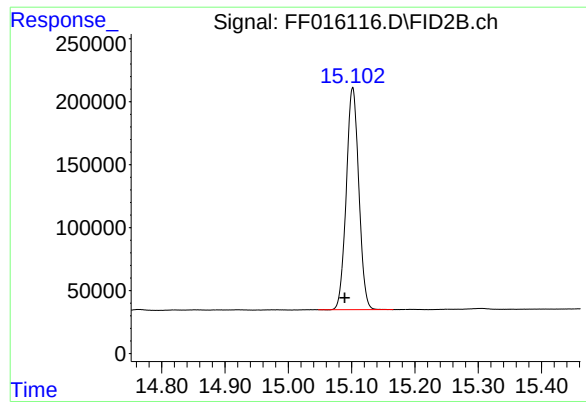
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\
Data File : FF016116.D
Signal(s) : FID2B.ch
Acq On : 09 Jul 2025 09:32
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 10 02:49:56 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.: 0.013 min
Response: 2424974
Conc: 20.08 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\

Data File : FF016116.D

Signal(s) : FID2B.ch

Acq On : 09 Jul 2025 09:32

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	15.102	15.047	15.166	BB	176895	2424974	100.00%	100.000%
Sum of corrected areas:						2424974		

FF061325.M Thu Jul 10 03:31:37 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	PIBLK-FF016126.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FF016126.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
FF016126.D	1		07/09/25	FF070925

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
 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\FF070925\
Data File : FF016126.D
Signal(s) : FID2B.ch
Acq On : 09 Jul 2025 16:36
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 10 02:51:58 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	1954154	16.184 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

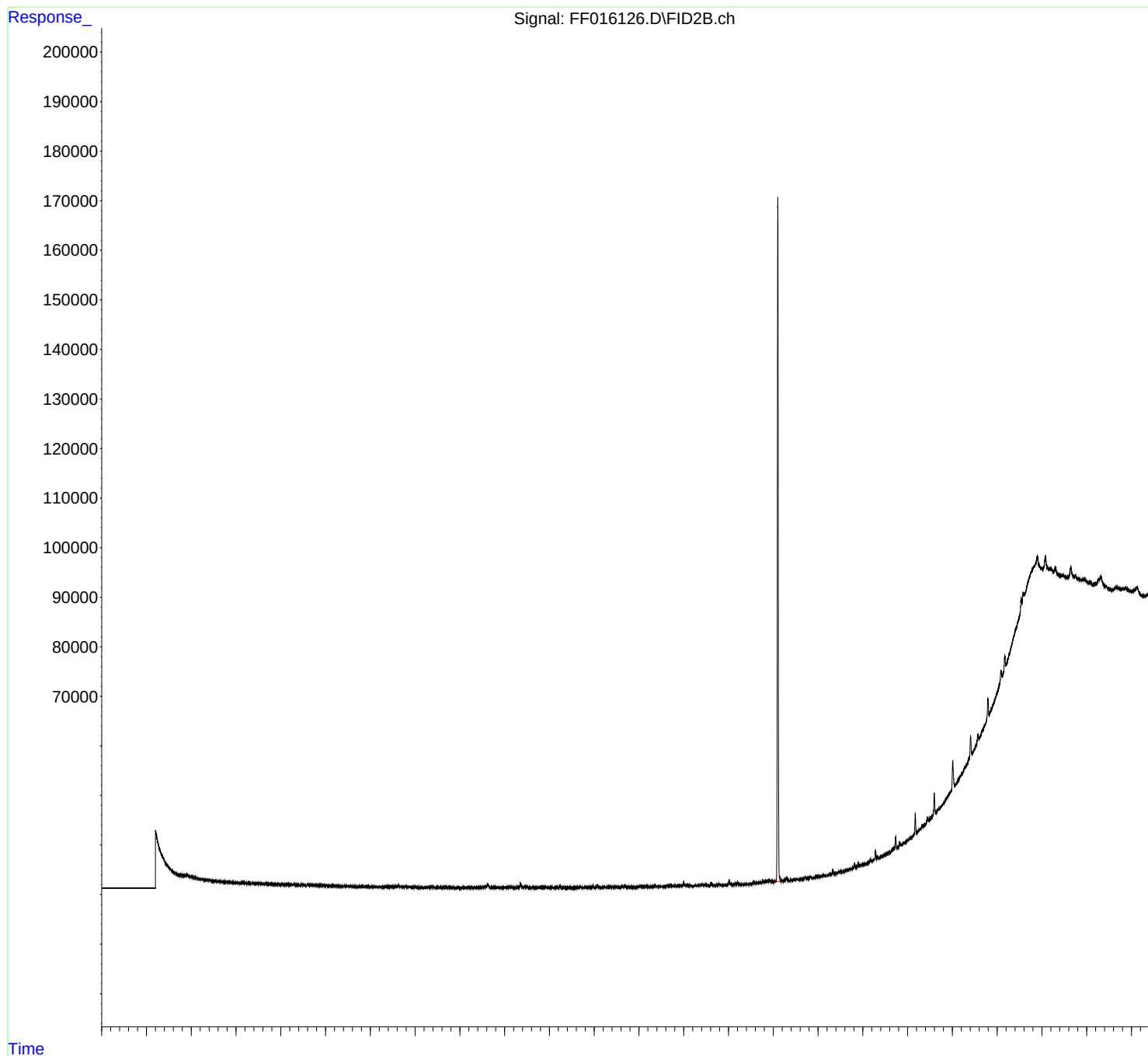
(m)=manual int.

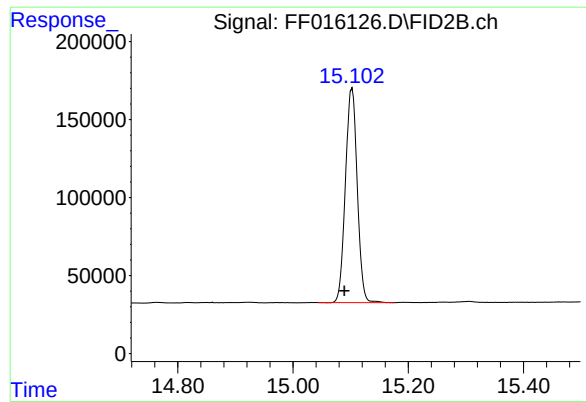
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\
Data File : FF016126.D
Signal(s) : FID2B.ch
Acq On : 09 Jul 2025 16:36
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 10 02:51:58 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.: 0.013 min
Response: 1954154
Conc: 16.18 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\

Data File : FF016126.D

Signal(s) : FID2B.ch

Acq On : 09 Jul 2025 16:36

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	15.102	15.044	15.174	BB	137569	1954154	100.00%	100.000%
Sum of corrected areas:						1954154		

FF061325.M Thu Jul 10 03:33:30 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-FG016199.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FG016199.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
FG016199.D	1		07/02/25	FG070225

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	17.1		29 - 130	85%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016199.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 11:18
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 03 01:22:14 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	2000688	17.056 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

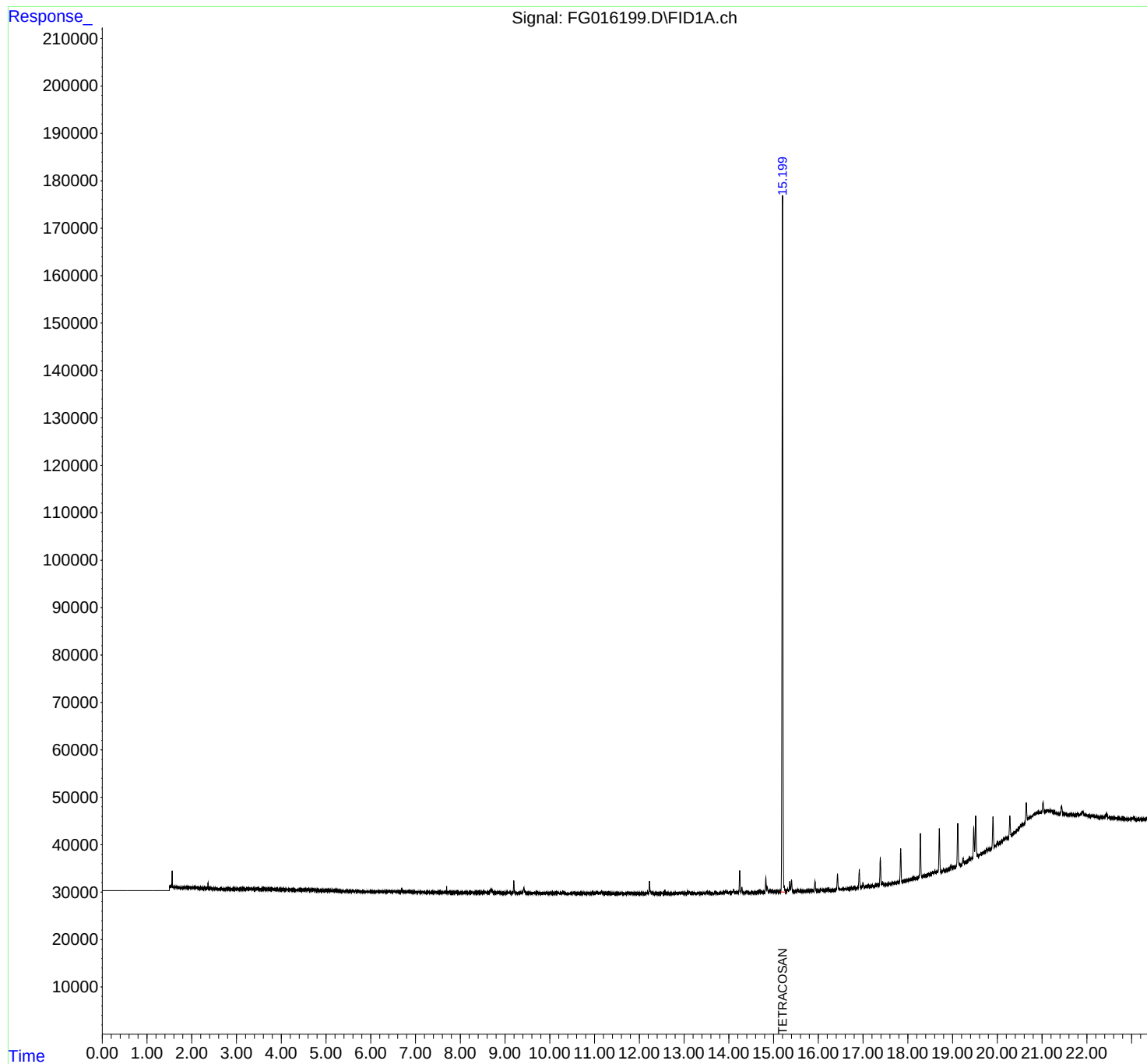
(m)=manual int.

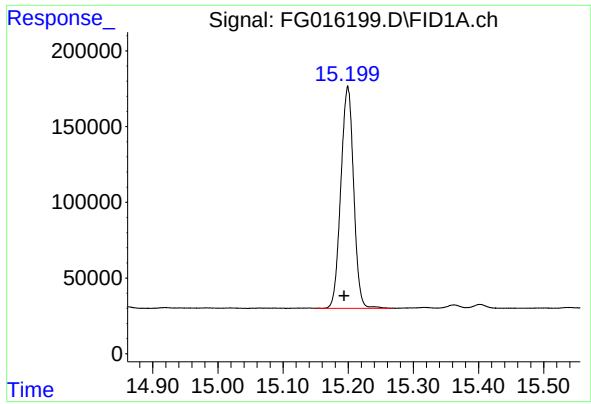
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016199.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 11:18
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 03 01:22:14 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: 2000688
Conc: 17.06 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016199.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 11:18
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	15.199	15.151	15.267	BB	146698	2000688	100.00%	100.000%
Sum of corrected areas:						2000688		

FG061325.M Thu Jul 03 01:49:05 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-FG016207.D	SDG No.:	Q2458
Lab Sample ID:	I.BLK-FG016207.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
FG016207.D	1		07/02/25	FG070225

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	16.9		29 - 130	84%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016207.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 18:36
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 03 01:23:58 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...	15.204	1981864	16.896 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

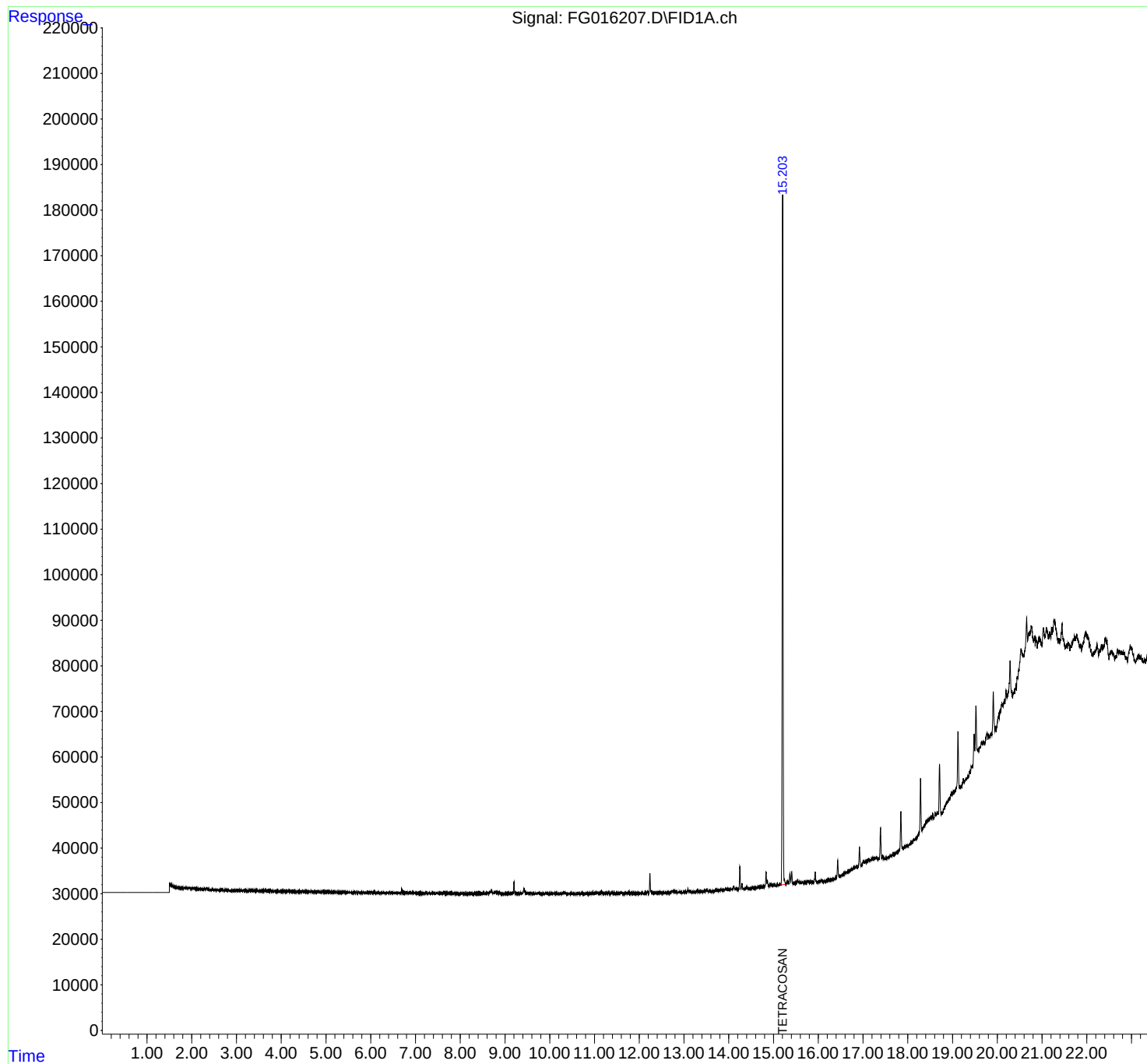
(m)=manual int.

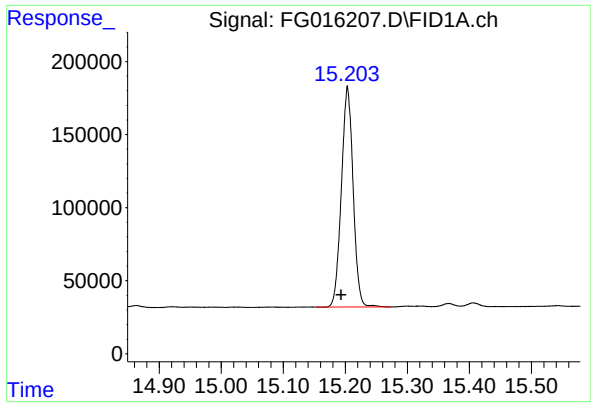
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016207.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 18:36
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 03 01:23:58 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.: 15.204 min
Delta R.T.: 0.010 min
Response: 1981864
Conc: 16.90 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG070225\
Data File : FG016207.D
Signal(s) : FID1A.ch
Acq On : 02 Jul 2025 18:36
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	15.204	15.153	15.275	BV	150902	1981864	100.00%	100.000%
Sum of corrected areas:						1981864		

FG061325.M Thu Jul 03 01:50:40 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168697BS	SDG No.:	Q2458
Lab Sample ID:	PB168697BS	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016124.D	1	07/02/25 09:09	07/09/25 15:34	PB168697

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	194		6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.9		29 - 130	95%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\
 Data File : FF016124.D
 Signal(s) : FID2B.ch
 Acq On : 09 Jul 2025 15:34
 Operator : YP\AJ
 Sample : PB168697BS
 Misc :
 ALS Vial : 76 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 PB168697BS

Integration File: autoint1.e
 Quant Time: Jul 10 05:56:55 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	2283389	18.911 ug/ml
Target Compounds			
2) N-DECANE	4.615	2621464	20.008 ug/ml
3) N-DODECANE	6.794	2616380	19.649 ug/ml
4) N-TETRADECANE	8.627	2628134	19.609 ug/ml
5) N-HEXADECANE	10.238	2628526	19.463 ug/ml
6) N-OCTADECANE	11.684	2679883	19.331 ug/ml
7) N-EICOSANE	12.997	2701888	19.349 ug/ml
8) N-DOCOSANE	14.199	2613739	19.237 ug/ml
10) N-TETRACOSANE	15.307	2592164	19.126 ug/ml
11) N-HEXACOSANE	16.331	2549806	18.995 ug/ml
12) N-OCTACOSANE	17.284	2493320	18.886 ug/ml

(f)=RT Delta > 1/2 Window

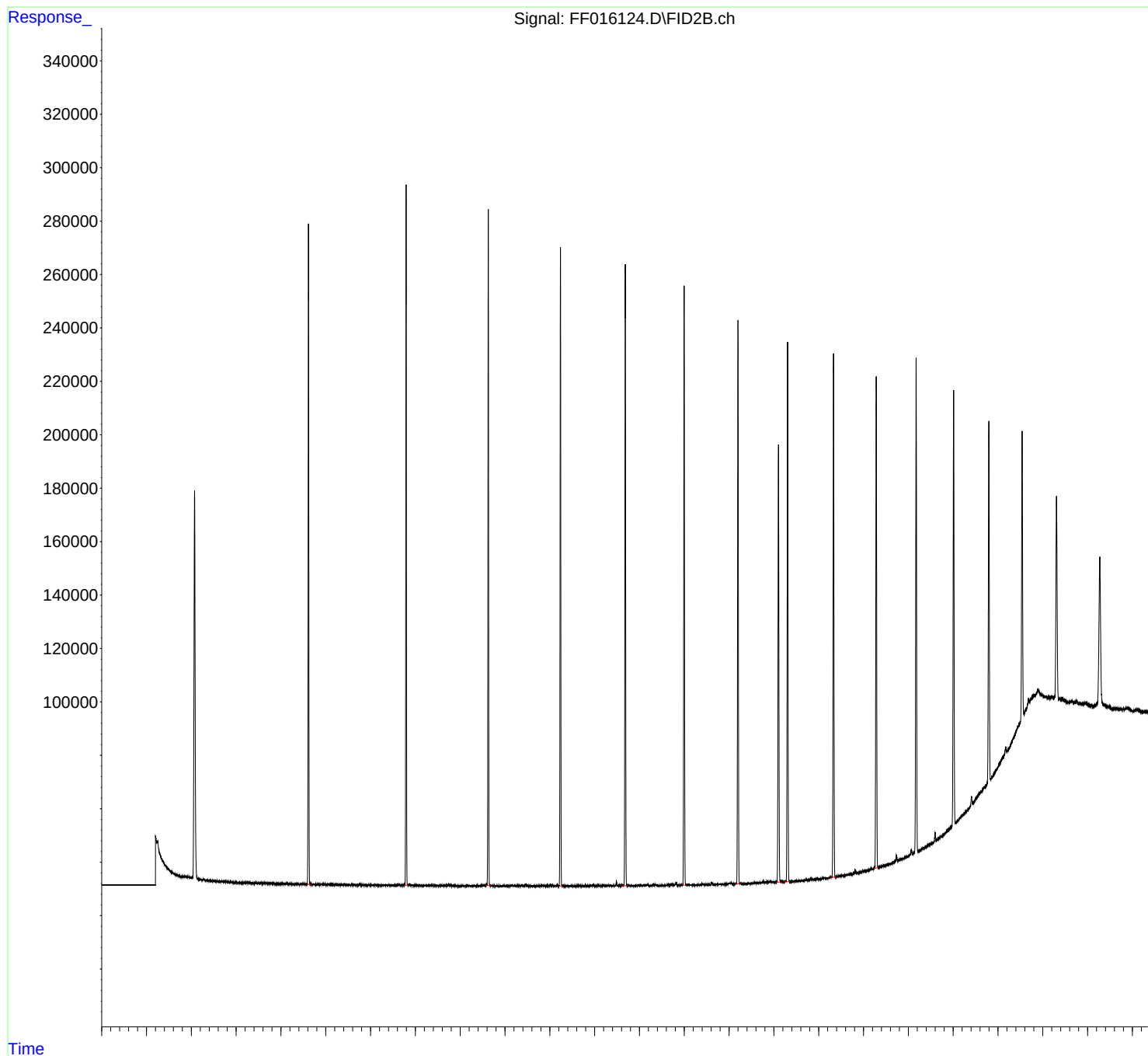
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\
Data File : FF016124.D
Signal(s) : FID2B.ch
Acq On : 09 Jul 2025 15:34
Operator : YP\AJ
Sample : PB168697BS
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB168697BS

Integration File: autoint1.e
Quant Time: Jul 10 05:56:55 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\

Data File : FF016124.D

Signal(s) : FID2B.ch

Acq On : 09 Jul 2025 15:34

Sample : PB168697BS

Misc :

ALS Vial : 76 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	4.615	4.580	4.667	BB	246673	2621464	97.02%	9.223%
2	6.794	6.759	6.842	BB	262062	2616380	96.84%	9.205%
3	8.627	8.580	8.679	BB	253059	2628134	97.27%	9.247%
4	10.238	10.200	10.284	BB	237886	2628526	97.28%	9.248%
5	11.684	11.590	11.724	BB	232128	2679883	99.19%	9.429%
6	12.997	12.962	13.045	BB	224237	2701888	100.00%	9.506%
7	14.199	14.129	14.250	BB	209505	2613739	96.74%	9.196%
8	15.102	15.049	15.174	BB	162782	2283389	84.51%	8.034%
9	15.307	15.224	15.352	BB	200915	2592164	95.94%	9.120%
10	16.331	16.269	16.382	BB	195531	2549806	94.37%	8.971%
11	17.284	17.122	17.339	BB	183950	2507292	92.80%	8.821%

Sum of corrected areas: 28422664

FF061325.M Thu Jul 10 06:00:24 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168701BS	SDG No.:	Q2458
Lab Sample ID:	PB168701BS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	100
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
FF016076.D	1	07/02/25 09:17	07/02/25 19:36	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	4980		169	1670	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	15.1		37 - 130	76%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016076.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 19:36
Operator : YP\AJ
Sample : PB168701BS
Misc :
ALS Vial : 80 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB168701BS

Integration File: autoint1.e
Quant Time: Jul 03 03:22:29 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...	15.091	1827774	15.138 ug/ml
Target Compounds				
2)	N-DECANE	4.616	2055768	15.690 ug/ml
3)	N-DODECANE	6.791	2041053	15.328 ug/ml
4)	N-TETRADECANE	8.623	2022342	15.089 ug/ml
5)	N-HEXADECANE	10.232	1995679	14.777 ug/ml
6)	N-OCTADECANE	11.677	2034871	14.678 ug/ml
7)	N-EICOSANE	12.988	2075198	14.861 ug/ml
8)	N-DOCOSANE	14.189	2021263	14.877 ug/ml
10)	N-TETRACOSANE	15.294	2019907	14.904 ug/ml
11)	N-HEXACOSANE	16.318	1960683	14.606 ug/ml
12)	N-OCTACOSANE	17.271	1965159	14.885 ug/ml

(f)=RT Delta > 1/2 Window

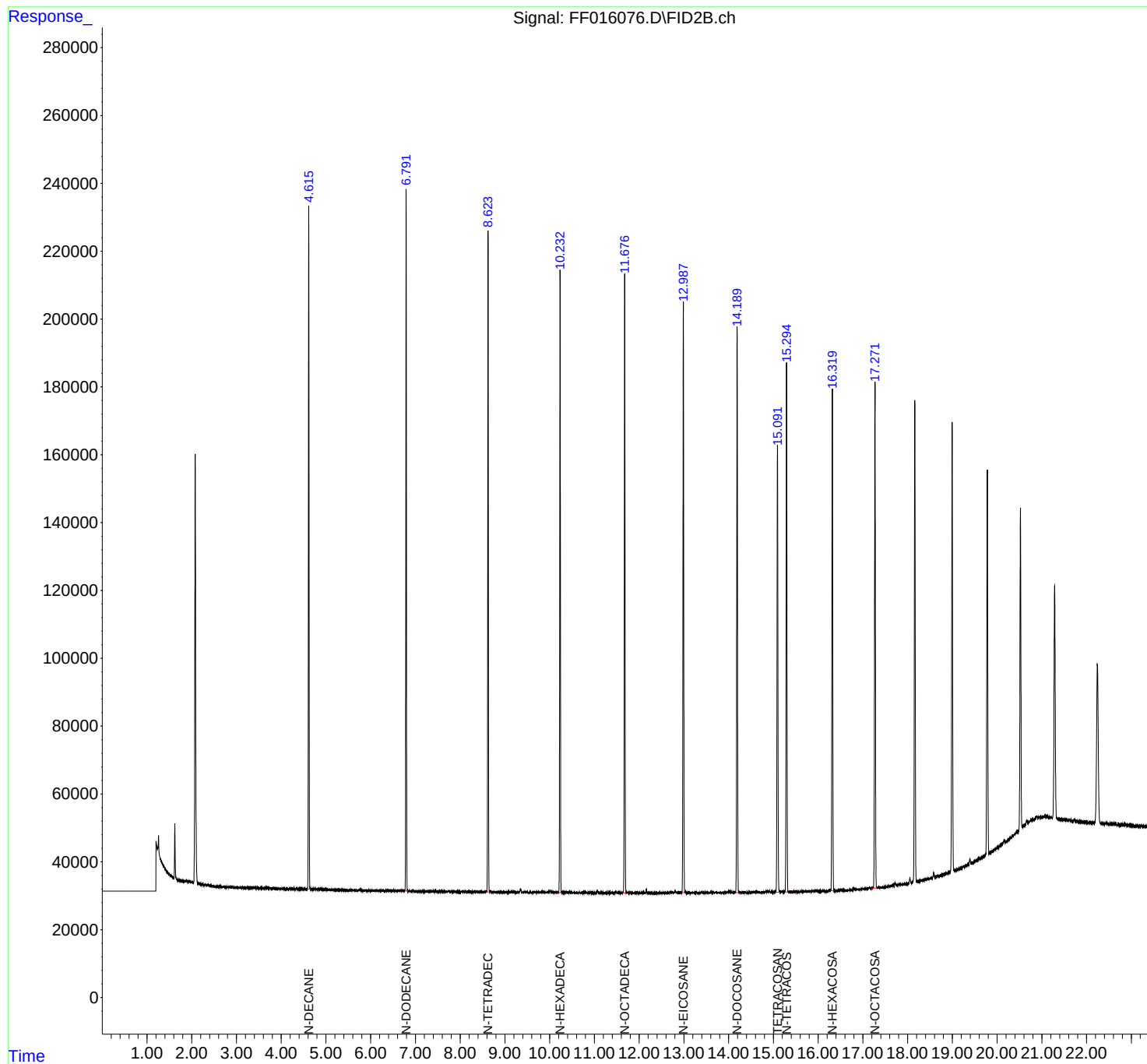
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016076.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 19:36
Operator : YP\AJ
Sample : PB168701BS
Misc :
ALS Vial : 80 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB168701BS

Integration File: autoint1.e
Quant Time: Jul 03 03:22:29 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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016076.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 19:36
Sample : PB168701BS
Misc :
ALS Vial : 80 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	4.616	4.584	4.666	BB	201383	2055768	99.06%	9.336%
2	6.791	6.761	6.827	BB	206521	2041053	98.35%	9.269%
3	8.623	8.569	8.666	BB	194534	2022342	97.45%	9.184%
4	10.232	10.192	10.279	BB	183731	1995679	96.17%	9.063%
5	11.677	11.627	11.716	BB	182408	2034871	98.06%	9.241%
6	12.988	12.954	13.022	BB	174336	2075198	100.00%	9.424%
7	14.189	14.152	14.231	BB	166632	2021263	97.40%	9.179%
8	15.091	15.052	15.157	BB	131347	1827774	88.08%	8.301%
9	15.294	15.251	15.337	BB	155353	2019907	97.34%	9.173%
10	16.318	16.276	16.367	BB	148132	1960683	94.48%	8.904%
11	17.271	17.192	17.321	BB	148343	1965159	94.70%	8.925%
Sum of corrected areas:						22019698		

FF061325.M Thu Jul 03 04:31:50 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168697BS	SDG No.:	Q2458
Lab Sample ID:	PB168697BS	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016124.D	1	07/02/25 09:09	07/09/25 15:34	PB168697

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	194		6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.9		29 - 130	95%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\
 Data File : FF016124.D
 Signal(s) : FID2B.ch
 Acq On : 09 Jul 2025 15:34
 Operator : YP\AJ
 Sample : PB168697BS
 Misc :
 ALS Vial : 76 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 PB168697BS

Integration File: autoint1.e
 Quant Time: Jul 10 05:56:55 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	2283389	18.911 ug/ml
Target Compounds			
2) N-DECANE	4.615	2621464	20.008 ug/ml
3) N-DODECANE	6.794	2616380	19.649 ug/ml
4) N-TETRADECANE	8.627	2628134	19.609 ug/ml
5) N-HEXADECANE	10.238	2628526	19.463 ug/ml
6) N-OCTADECANE	11.684	2679883	19.331 ug/ml
7) N-EICOSANE	12.997	2701888	19.349 ug/ml
8) N-DOCOSANE	14.199	2613739	19.237 ug/ml
10) N-TETRACOSANE	15.307	2592164	19.126 ug/ml
11) N-HEXACOSANE	16.331	2549806	18.995 ug/ml
12) N-OCTACOSANE	17.284	2493320	18.886 ug/ml

(f)=RT Delta > 1/2 Window

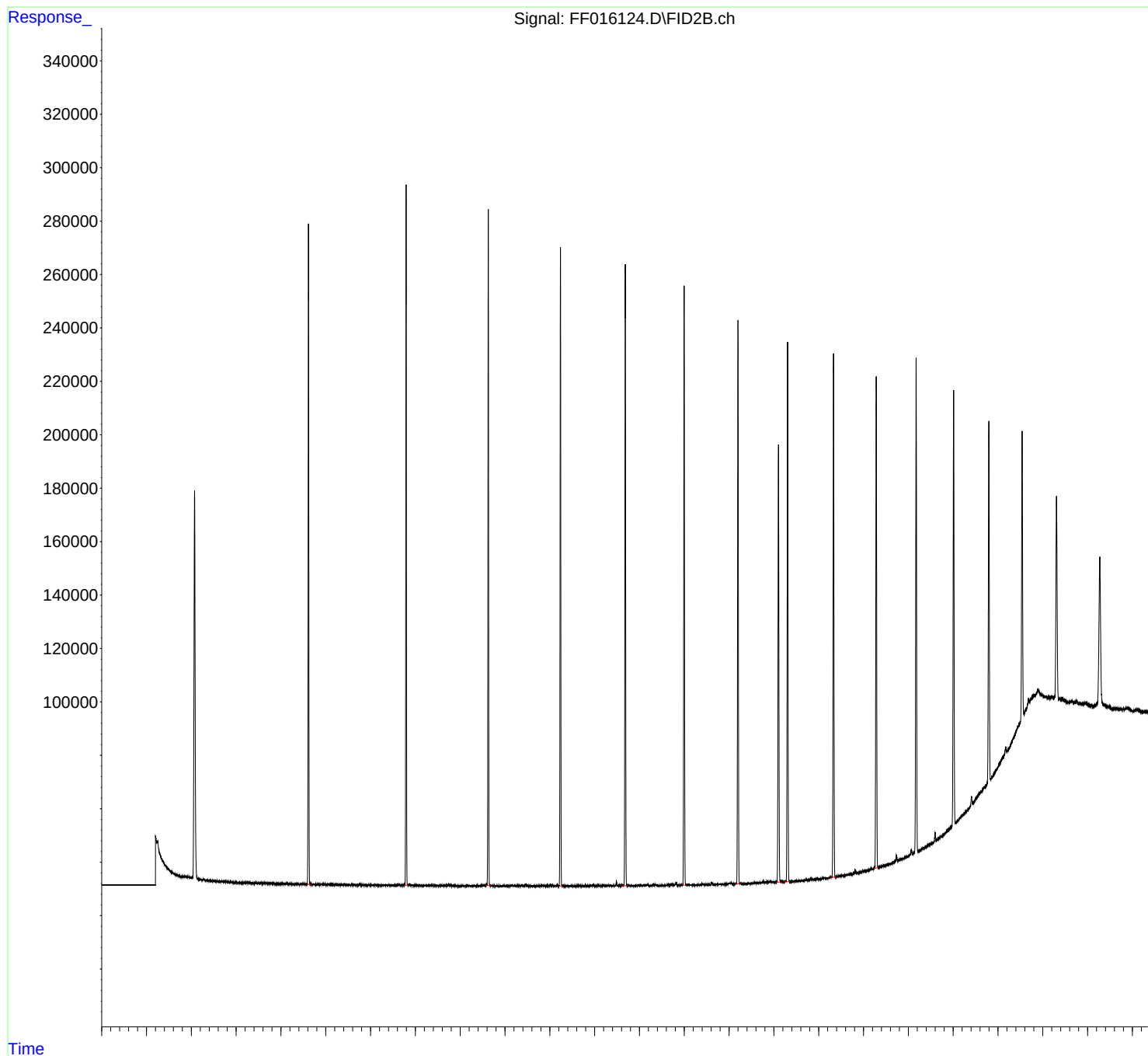
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\
Data File : FF016124.D
Signal(s) : FID2B.ch
Acq On : 09 Jul 2025 15:34
Operator : YP\AJ
Sample : PB168697BS
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB168697BS

Integration File: autoint1.e
Quant Time: Jul 10 05:56:55 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\

Data File : FF016124.D

Signal(s) : FID2B.ch

Acq On : 09 Jul 2025 15:34

Sample : PB168697BS

Misc :

ALS Vial : 76 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	4.615	4.580	4.667	BB	246673	2621464	97.02%	9.223%
2	6.794	6.759	6.842	BB	262062	2616380	96.84%	9.205%
3	8.627	8.580	8.679	BB	253059	2628134	97.27%	9.247%
4	10.238	10.200	10.284	BB	237886	2628526	97.28%	9.248%
5	11.684	11.590	11.724	BB	232128	2679883	99.19%	9.429%
6	12.997	12.962	13.045	BB	224237	2701888	100.00%	9.506%
7	14.199	14.129	14.250	BB	209505	2613739	96.74%	9.196%
8	15.102	15.049	15.174	BB	162782	2283389	84.51%	8.034%
9	15.307	15.224	15.352	BB	200915	2592164	95.94%	9.120%
10	16.331	16.269	16.382	BB	195531	2549806	94.37%	8.971%
11	17.284	17.122	17.339	BB	183950	2507292	92.80%	8.821%

Sum of corrected areas: 28422664

FF061325.M Thu Jul 10 06:00:24 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168697BSD	SDG No.:	Q2458
Lab Sample ID:	PB168697BSD	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016125.D	1	07/02/25 09:09	07/09/25 16:06	PB168697

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	189		6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.5		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_F\Data\FF070925\
 Data File : FF016125.D
 Signal(s) : FID2B.ch
 Acq On : 09 Jul 2025 16:06
 Operator : YP\AJ
 Sample : PB168697BSD
 Misc :
 ALS Vial : 77 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 PB168697BSD

Integration File: autoint1.e
 Quant Time: Jul 10 05:57:51 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	2233077	18.494 ug/ml
Target Compounds			
2) N-DECANE	4.613	2543788	19.415 ug/ml
3) N-DODECANE	6.792	2552697	19.170 ug/ml
4) N-TETRADECANE	8.626	2578930	19.242 ug/ml
5) N-HEXADECANE	10.237	2579538	19.100 ug/ml
6) N-OCTADECANE	11.684	2624623	18.932 ug/ml
7) N-EICOSANE	12.998	2652427	18.995 ug/ml
8) N-DOCOSANE	14.199	2555374	18.808 ug/ml
10) N-TETRACOSANE	15.306	2534844	18.703 ug/ml
11) N-HEXACOSANE	16.330	2489792	18.548 ug/ml
12) N-OCTACOSANE	17.284	2437426	18.463 ug/mlm

(f)=RT Delta > 1/2 Window

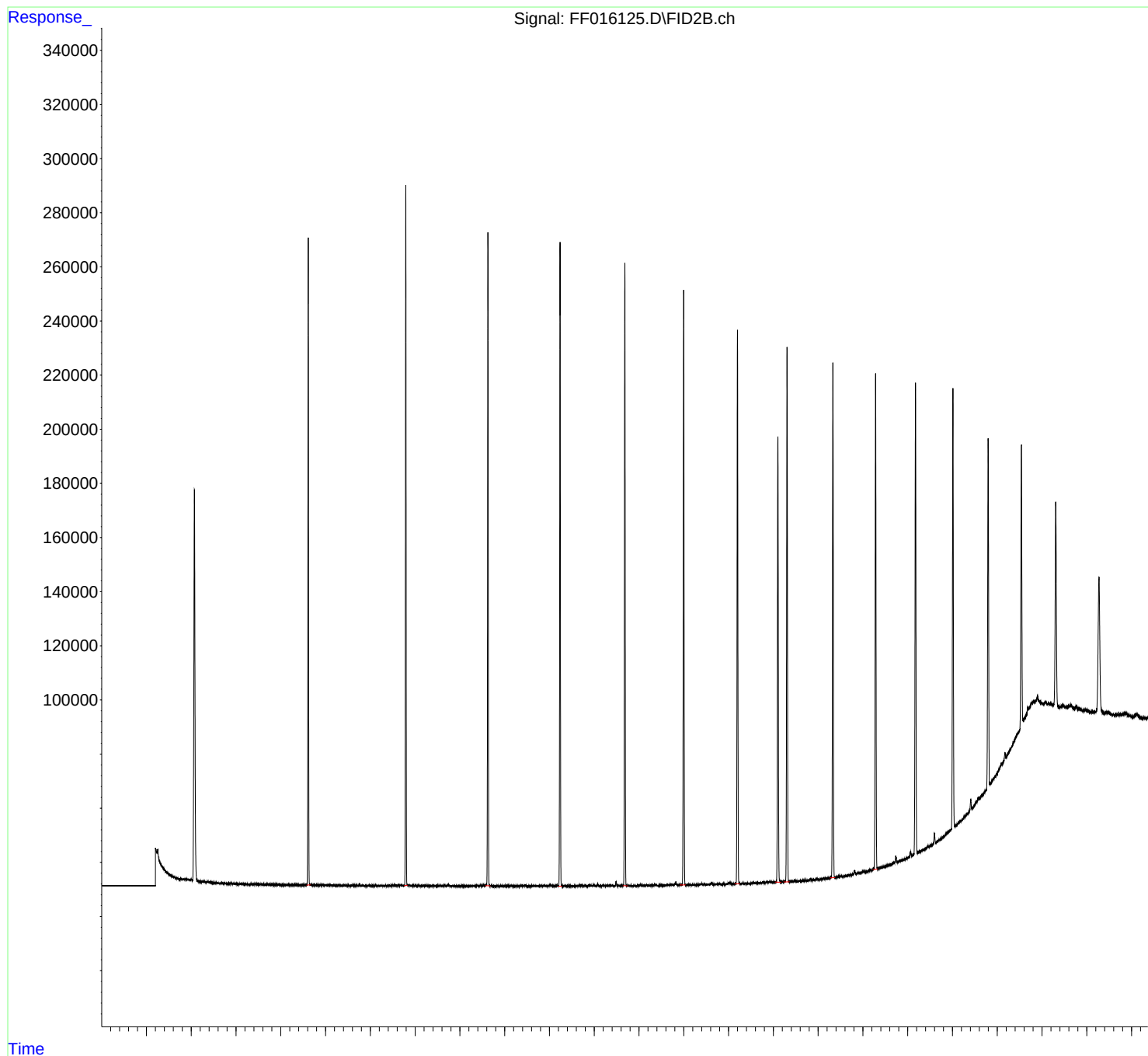
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\
Data File : FF016125.D
Signal(s) : FID2B.ch
Acq On : 09 Jul 2025 16:06
Operator : YP\AJ
Sample : PB168697BSD
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB168697BSD

Integration File: autoint1.e
Quant Time: Jul 10 05:57:51 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\

Data File : FF016125.D

Signal(s) : FID2B.ch

Acq On : 09 Jul 2025 16:06

Sample : PB168697BSD

Misc :

ALS Vial : 77 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	4.613	4.581	4.662	BB	238611	2543788	95.90%	9.155%
2	6.792	6.759	6.831	BB	258723	2552697	96.24%	9.187%
3	8.626	8.567	8.681	BB	241608	2578930	97.23%	9.282%
4	10.237	10.204	10.277	BB	238140	2579538	97.25%	9.284%
5	11.684	11.644	11.734	BB	229447	2624623	98.95%	9.446%
6	12.998	12.921	13.039	BB	220036	2652427	100.00%	9.546%
7	14.199	14.139	14.249	BB	204140	2555374	96.34%	9.197%
8	15.101	15.041	15.174	BB	164145	2233077	84.19%	8.037%
9	15.306	15.231	15.354	BB	197745	2534844	95.57%	9.123%
10	16.330	16.264	16.377	BB	189656	2489792	93.87%	8.961%
11	17.284	17.134	17.326	BB	183256	2439735	91.98%	8.781%

Sum of corrected areas: 27784824

FF061325.M Thu Jul 10 06:00:07 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168697BSD	SDG No.:	Q2458
Lab Sample ID:	PB168697BSD	Matrix:	Water
Analytical Method:	8015D DRO	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1 mL
Soil Aliquot Vol:	uL	Test:	Diesel Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016125.D	1	07/02/25 09:09	07/09/25 16:06	PB168697

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
DRO	DRO	189		6.00	50.0	ug/L
SURROGATES						
16416-32-3	Tetracosane-d50	18.5		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_F\Data\FF070925\
Data File : FF016125.D
Signal(s) : FID2B.ch
Acq On : 09 Jul 2025 16:06
Operator : YP\AJ
Sample : PB168697BSD
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB168697BSD

Integration File: autoint1.e
Quant Time: Jul 10 05:57:51 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	2233077	18.494 ug/ml
Target Compounds				
2)	N-DECANE	4.613	2543788	19.415 ug/ml
3)	N-DODECANE	6.792	2552697	19.170 ug/ml
4)	N-TETRADECANE	8.626	2578930	19.242 ug/ml
5)	N-HEXADECANE	10.237	2579538	19.100 ug/ml
6)	N-OCTADECANE	11.684	2624623	18.932 ug/ml
7)	N-EICOSANE	12.998	2652427	18.995 ug/ml
8)	N-DOCOSANE	14.199	2555374	18.808 ug/ml
10)	N-TETRACOSANE	15.306	2534844	18.703 ug/ml
11)	N-HEXACOSANE	16.330	2489792	18.548 ug/ml
12)	N-OCTACOSANE	17.284	2437426	18.463 ug/mlm

(f)=RT Delta > 1/2 Window

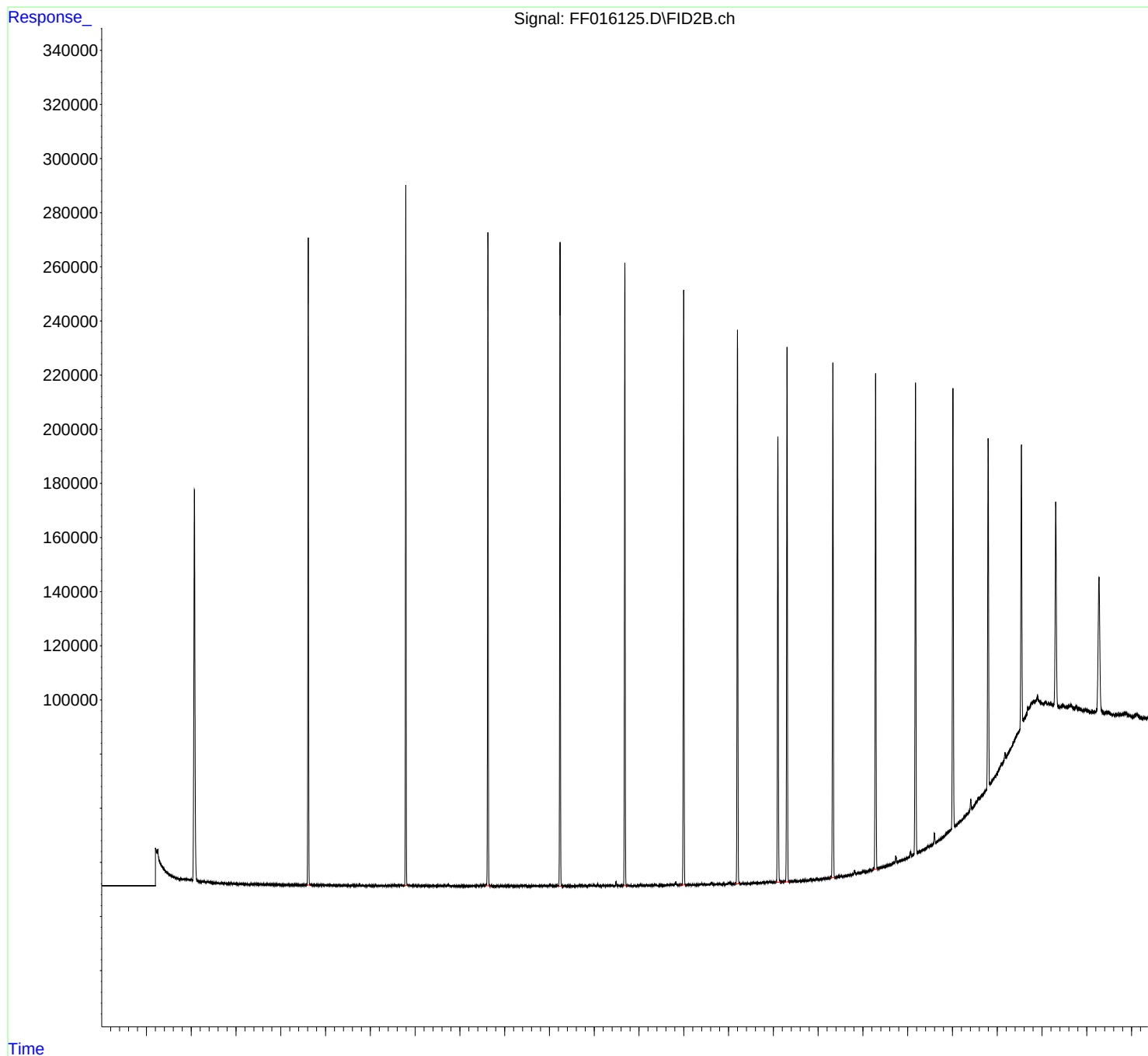
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\
Data File : FF016125.D
Signal(s) : FID2B.ch
Acq On : 09 Jul 2025 16:06
Operator : YP\AJ
Sample : PB168697BSD
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB168697BSD

Integration File: autoint1.e
Quant Time: Jul 10 05:57:51 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070925\

Data File : FF016125.D

Signal(s) : FID2B.ch

Acq On : 09 Jul 2025 16:06

Sample : PB168697BSD

Misc :

ALS Vial : 77 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	4.613	4.581	4.662	BB	238611	2543788	95.90%	9.155%
2	6.792	6.759	6.831	BB	258723	2552697	96.24%	9.187%
3	8.626	8.567	8.681	BB	241608	2578930	97.23%	9.282%
4	10.237	10.204	10.277	BB	238140	2579538	97.25%	9.284%
5	11.684	11.644	11.734	BB	229447	2624623	98.95%	9.446%
6	12.998	12.921	13.039	BB	220036	2652427	100.00%	9.546%
7	14.199	14.139	14.249	BB	204140	2555374	96.34%	9.197%
8	15.101	15.041	15.174	BB	164145	2233077	84.19%	8.037%
9	15.306	15.231	15.354	BB	197745	2534844	95.57%	9.123%
10	16.330	16.264	16.377	BB	189656	2489792	93.87%	8.961%
11	17.284	17.134	17.326	BB	183256	2439735	91.98%	8.781%

Sum of corrected areas: 27784824

FF061325.M Thu Jul 10 06:00:07 2025

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MS	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MS	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.7
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	Diesel Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016081.D	1	07/02/25 09:17	07/02/25 22:05	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10700		188	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	8.49		37 - 130	42%	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\FF070225\
 Data File : FF016081.D
 Signal(s) : FID2B.ch
 Acq On : 02 Jul 2025 22:05
 Operator : YP\AJ
 Sample : Q2458-04MS
 Misc :
 ALS Vial : 85 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 TP-67MS

Integration File: autoint1.e
 Quant Time: Jul 03 03:23:35 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...	15.096	1025278	8.491 ug/ml
Target Compounds			
2) N-DECANE	4.618	1943609	14.834 ug/ml
3) N-DODECANE	6.794	1940990	14.577 ug/ml
4) N-TETRADECANE	8.627	1947144	14.528 ug/ml
5) N-HEXADECANE	10.236	1908999	14.135 ug/ml
6) N-OCTADECANE	11.682	1936515	13.969 ug/ml
7) N-EICOSANE	12.994	1968189	14.095 ug/ml
8) N-DOCOSANE	14.196	1906337	14.031 ug/ml
10) N-TETRACOSANE	15.301	1939402	14.310 ug/ml
11) N-HEXACOSANE	16.325	1849757	13.780 ug/ml
12) N-OCTACOSANE	17.277	1907336	14.447 ug/ml

(f)=RT Delta > 1/2 Window

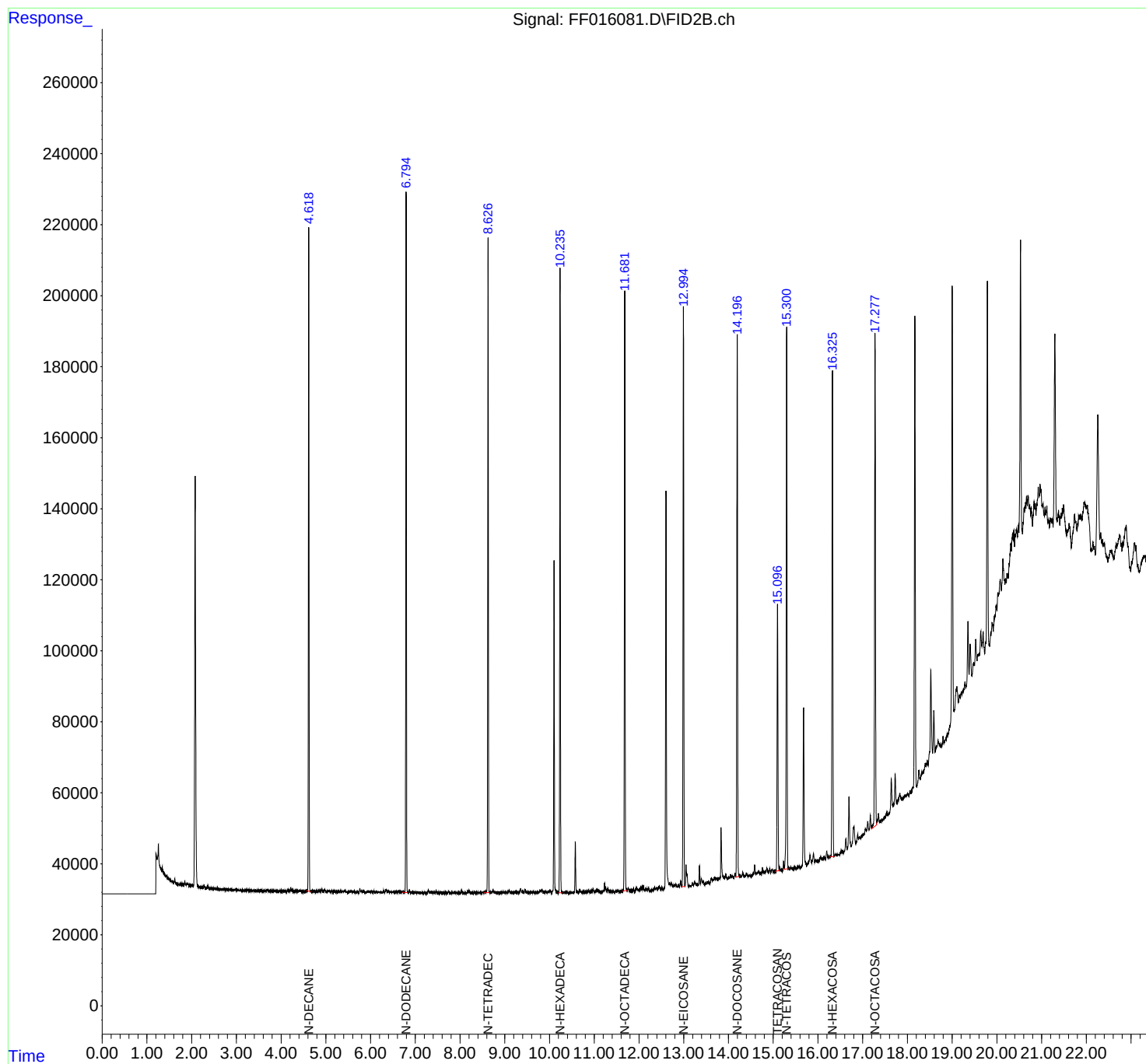
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016081.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 22:05
Operator : YP\AJ
Sample : Q2458-04MS
Misc :
ALS Vial : 85 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
TP-67MS

Integration File: autoint1.e
Quant Time: Jul 03 03:23:35 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\

Data File : FF016081.D

Signal(s) : FID2B.ch

Acq On : 02 Jul 2025 22:05

Sample : Q2458-04MS

Misc :

ALS Vial : 85 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	2.079	2.042	2.223	HH	117543	1956374	78.27%	4.892%
2	2.233	2.223	2.261	HH	1787	38739	1.55%	0.097%
3	2.276	2.261	2.314	HH	2515	62819	2.51%	0.157%
4	2.318	2.314	2.329	HH	1634	14153	0.57%	0.035%
5	2.331	2.329	2.344	HH	1613	13894	0.56%	0.035%
6	2.365	2.344	2.391	HH	2278	50986	2.04%	0.127%
7	2.392	2.391	2.401	HH	1742	9006	0.36%	0.023%
8	2.417	2.401	2.457	HH	1679	52263	2.09%	0.131%
9	2.464	2.457	2.482	HH	1512	21396	0.86%	0.054%
10	2.498	2.482	2.516	HH	1600	29808	1.19%	0.075%
11	2.521	2.516	2.527	HH	1450	9395	0.38%	0.023%
12	2.534	2.527	2.558	HH	1458	25841	1.03%	0.065%
13	2.581	2.558	2.619	HH	1560	50414	2.02%	0.126%
14	2.623	2.619	2.638	HH	1333	14118	0.56%	0.035%
15	2.647	2.638	2.652	HH	1322	10713	0.43%	0.027%
16	2.660	2.652	2.680	HH	1255	20792	0.83%	0.052%
17	2.687	2.680	2.715	HH	1305	25626	1.03%	0.064%
18	2.725	2.715	2.749	HH	1298	24947	1.00%	0.062%
19	2.757	2.749	2.768	HH	1246	13092	0.52%	0.033%
20	2.772	2.768	2.795	HH	1253	19565	0.78%	0.049%
21	2.801	2.795	2.833	HH	1144	25455	1.02%	0.064%
22	2.857	2.833	2.873	HH	1264	27935	1.12%	0.070%
23	2.877	2.873	2.890	HH	1156	11264	0.45%	0.028%

24	2.894	2.890	2.942	HH	1195	34202	1.37%	0.086%
25	2.946	2.942	2.953	HH	1100	7312	0.29%	0.018%
26	2.973	2.953	2.979	HH	1280	17323	0.69%	0.043%
27	2.984	2.979	2.987	HH	1253	5780	0.23%	0.014%
28	2.997	2.987	3.031	HH	1261	29813	1.19%	0.075%
29	3.035	3.031	3.081	HH	1146	30679	1.23%	0.077%
30	3.087	3.081	3.117	HH	1103	21405	0.86%	0.054%
31	3.119	3.117	3.139	HH	1053	13318	0.53%	0.033%
32	3.143	3.139	3.158	HH	1036	10721	0.43%	0.027%
33	3.166	3.158	3.173	HH	1020	8613	0.34%	0.022%
34	3.182	3.173	3.188	HH	983	8355	0.33%	0.021%
35	3.201	3.188	3.229	HH	1058	23954	0.96%	0.060%
36	3.232	3.229	3.238	HH	991	5008	0.20%	0.013%
37	3.249	3.238	3.256	HH	1017	9836	0.39%	0.025%
38	3.264	3.256	3.269	HH	983	7552	0.30%	0.019%
39	3.279	3.269	3.292	HH	1015	13030	0.52%	0.033%
40	3.296	3.292	3.313	HH	962	11473	0.46%	0.029%
41	3.323	3.313	3.334	HH	923	10947	0.44%	0.027%
42	3.341	3.334	3.346	HH	936	6371	0.25%	0.016%
43	3.351	3.346	3.356	HH	1022	5856	0.23%	0.015%
44	3.361	3.356	3.384	HH	961	15507	0.62%	0.039%
45	3.394	3.384	3.407	HH	1017	12691	0.51%	0.032%
46	3.412	3.407	3.423	HH	980	8969	0.36%	0.022%
47	3.426	3.423	3.447	HH	1024	12350	0.49%	0.031%
48	3.451	3.447	3.456	HH	872	4765	0.19%	0.012%
49	3.461	3.456	3.469	HH	975	6688	0.27%	0.017%
50	3.475	3.469	3.480	HH	920	5602	0.22%	0.014%
51	3.486	3.480	3.510	HH	968	15437	0.62%	0.039%
52	3.525	3.510	3.534	HH	905	12733	0.51%	0.032%
53	3.540	3.534	3.557	HH	865	11654	0.47%	0.029%
54	3.566	3.557	3.571	HH	895	7207	0.29%	0.018%
55	3.574	3.571	3.605	HH	940	17603	0.70%	0.044%
56	3.611	3.605	3.630	HH	890	12277	0.49%	0.031%
57	3.645	3.630	3.657	HH	865	12895	0.52%	0.032%
58	3.666	3.657	3.678	HH	858	10585	0.42%	0.026%
59	3.700	3.678	3.718	HH	1026	21772	0.87%	0.054%
60	3.730	3.718	3.735	HH	934	9039	0.36%	0.023%
61	3.739	3.735	3.758	HH	925	11572	0.46%	0.029%
62	3.771	3.758	3.784	HH	868	13054	0.52%	0.033%

63	3.802	3.784	3.807	HH	937	11273	0.45%	0.028%
64	3.811	3.807	3.828	HH	927	10689	0.43%	0.027%
65	3.834	3.828	3.866	HH	857	17454	0.70%	0.044%
66	3.893	3.866	3.919	HH	897	24381	0.98%	0.061%
67	3.951	3.919	3.962	HH	793	19279	0.77%	0.048%
68	3.971	3.962	3.977	HH	727	6454	0.26%	0.016%
69	3.999	3.977	4.019	HH	923	19511	0.78%	0.049%
70	4.023	4.019	4.030	HH	694	4205	0.17%	0.011%
71	4.047	4.030	4.058	HH	820	12399	0.50%	0.031%
72	4.061	4.058	4.119	HH	808	25855	1.03%	0.065%
73	4.146	4.119	4.168	HH	1125	24340	0.97%	0.061%
74	4.171	4.168	4.175	HH	839	3448	0.14%	0.009%
75	4.182	4.175	4.200	HH	844	12014	0.48%	0.030%
76	4.215	4.200	4.255	HH	1757	36720	1.47%	0.092%
77	4.258	4.255	4.277	HH	951	11019	0.44%	0.028%
78	4.283	4.277	4.289	HH	701	4898	0.20%	0.012%
79	4.296	4.289	4.303	HH	710	5454	0.22%	0.014%
80	4.336	4.303	4.350	HH	939	22331	0.89%	0.056%
81	4.355	4.350	4.375	HH	810	11704	0.47%	0.029%
82	4.386	4.375	4.394	HH	818	8967	0.36%	0.022%
83	4.398	4.394	4.412	HH	734	7424	0.30%	0.019%
84	4.422	4.412	4.455	HH	834	19448	0.78%	0.049%
85	4.460	4.455	4.483	HH	684	10620	0.42%	0.027%
86	4.511	4.483	4.525	HH	732	16611	0.66%	0.042%
87	4.572	4.525	4.588	HH	988	30077	1.20%	0.075%
88	4.618	4.588	4.681	HH	187887	1983735	79.36%	4.960%
89	4.694	4.681	4.714	HH	812	14021	0.56%	0.035%
90	4.718	4.714	4.736	HH	633	7862	0.31%	0.020%
91	4.746	4.736	4.758	HH	772	9236	0.37%	0.023%
92	4.762	4.758	4.767	HH	743	3246	0.13%	0.008%
93	4.799	4.767	4.814	HH	774	20265	0.81%	0.051%
94	4.847	4.814	4.863	HH	890	22869	0.91%	0.057%
95	4.868	4.863	4.888	HH	798	10786	0.43%	0.027%
96	4.903	4.888	4.923	HH	1310	21015	0.84%	0.053%
97	4.931	4.923	4.942	HH	927	9421	0.38%	0.024%
98	4.962	4.942	4.967	HH	938	12333	0.49%	0.031%
99	4.976	4.967	5.004	HH	1001	18846	0.75%	0.047%
100	5.026	5.004	5.031	HH	812	11339	0.45%	0.028%
101	5.035	5.031	5.048	HH	747	6903	0.28%	0.017%

102	5.064	5.048	5.076	HH	979	13030	0.52%	0.033%
103	5.080	5.076	5.107	HH	855	12699	0.51%	0.032%
104	5.132	5.107	5.165	HH	805	22461	0.90%	0.056%
105	5.180	5.165	5.188	HH	562	7336	0.29%	0.018%
106	5.199	5.188	5.225	HH	640	12222	0.49%	0.031%
107	5.235	5.225	5.259	HH	672	11274	0.45%	0.028%
108	5.274	5.259	5.282	HH	594	7240	0.29%	0.018%
109	5.300	5.282	5.316	HH	727	12582	0.50%	0.031%
110	5.332	5.316	5.356	HH	998	17011	0.68%	0.043%
111	5.375	5.356	5.391	HH	734	13441	0.54%	0.034%
112	5.406	5.391	5.413	HH	774	9516	0.38%	0.024%
113	5.425	5.413	5.483	HH	778	25589	1.02%	0.064%
114	5.499	5.483	5.522	HH	524	10872	0.43%	0.027%
115	5.533	5.522	5.536	HH	614	4184	0.17%	0.010%
116	5.562	5.536	5.578	HH	1064	17855	0.71%	0.045%
117	5.582	5.578	5.587	HH	488	2586	0.10%	0.006%
118	5.594	5.587	5.600	HH	532	3788	0.15%	0.009%
119	5.606	5.600	5.623	HH	542	6520	0.26%	0.016%
120	5.639	5.623	5.654	HH	606	9492	0.38%	0.024%
121	5.658	5.654	5.663	HH	501	2590	0.10%	0.006%
122	5.665	5.663	5.673	HH	494	2745	0.11%	0.007%
123	5.678	5.673	5.684	HH	518	3018	0.12%	0.008%
124	5.688	5.684	5.699	HH	486	4033	0.16%	0.010%
125	5.704	5.699	5.714	HH	457	3484	0.14%	0.009%
126	5.718	5.714	5.728	HH	384	3316	0.13%	0.008%
127	5.731	5.728	5.736	HH	452	1793	0.07%	0.004%
128	5.760	5.736	5.779	HH	1438	21824	0.87%	0.055%
129	5.792	5.779	5.815	HH	874	14212	0.57%	0.036%
130	5.834	5.815	5.850	HH	1039	14672	0.59%	0.037%
131	5.861	5.850	5.871	HH	559	6349	0.25%	0.016%
132	5.877	5.871	5.903	HH	514	8969	0.36%	0.022%
133	5.908	5.903	5.916	HH	468	3286	0.13%	0.008%
134	5.946	5.916	5.980	HH	780	22712	0.91%	0.057%
135	5.989	5.980	6.010	HH	644	9594	0.38%	0.024%
136	6.023	6.010	6.049	HH	791	13209	0.53%	0.033%
137	6.075	6.049	6.107	HH	847	20094	0.80%	0.050%
138	6.128	6.107	6.152	HH	689	12925	0.52%	0.032%
139	6.156	6.152	6.161	HH	423	2165	0.09%	0.005%
140	6.177	6.161	6.214	HH	542	14131	0.57%	0.035%

141	6.232	6.214	6.253	HH	486	9865	0.39%	0.025%
142	6.260	6.253	6.265	HH	410	2577	0.10%	0.006%
143	6.293	6.265	6.314	HH	1002	17476	0.70%	0.044%
144	6.347	6.314	6.378	HH	1196	30359	1.21%	0.076%
145	6.402	6.378	6.421	HH	930	16759	0.67%	0.042%
146	6.438	6.421	6.469	HH	707	13934	0.56%	0.035%
147	6.482	6.469	6.492	HH	499	6386	0.26%	0.016%
148	6.507	6.492	6.557	HH	742	19251	0.77%	0.048%
149	6.586	6.557	6.603	HH	576	12378	0.50%	0.031%
150	6.630	6.603	6.650	HH	961	18228	0.73%	0.046%
151	6.656	6.650	6.666	HH	491	4338	0.17%	0.011%
152	6.678	6.666	6.693	HH	520	7385	0.30%	0.018%
153	6.698	6.693	6.703	HH	450	2793	0.11%	0.007%
154	6.716	6.703	6.764	HH	759	20927	0.84%	0.052%
155	6.794	6.764	6.848	HH	197585	1954775	78.20%	4.888%
156	6.868	6.848	6.895	HH	1176	18720	0.75%	0.047%
157	6.900	6.895	6.907	HH	406	2666	0.11%	0.007%
158	6.916	6.907	6.931	HH	434	5436	0.22%	0.014%
159	6.949	6.931	6.973	HH	578	10427	0.42%	0.026%
160	6.977	6.973	6.983	HH	376	1892	0.08%	0.005%
161	7.015	7.008	7.018	HH	338	1899	0.08%	0.005%
162	7.022	7.018	7.048	HH	293	5510	0.22%	0.014%
163	7.059	7.048	7.069	HH	377	4085	0.16%	0.010%
164	7.073	7.069	7.100	HH	339	5138	0.21%	0.013%
165	7.124	7.100	7.155	HH	419	10188	0.41%	0.025%
166	7.160	7.155	7.185	HH	297	4432	0.18%	0.011%
167	7.203	7.185	7.217	HH	366	5475	0.22%	0.014%
168	7.222	7.217	7.226	HH	263	1218	0.05%	0.003%
169	7.239	7.226	7.246	HH	293	2936	0.12%	0.007%
170	7.258	7.246	7.264	HH	288	2908	0.12%	0.007%
171	7.326	7.318	7.350	HH	537	8983	0.36%	0.022%
172	7.362	7.350	7.394	HH	435	9068	0.36%	0.023%
173	7.401	7.394	7.406	HH	271	1806	0.07%	0.005%
174	7.410	7.406	7.416	HH	333	1738	0.07%	0.004%
175	7.461	7.446	7.493	HH	714	13073	0.52%	0.033%
176	7.506	7.493	7.510	HH	355	2767	0.11%	0.007%
177	7.517	7.510	7.535	HH	438	4851	0.19%	0.012%
178	7.548	7.535	7.550	HH	264	1948	0.08%	0.005%
179	7.573	7.550	7.594	HH	465	8113	0.32%	0.020%
180	7.605	7.594	7.623	HH	330	4443	0.18%	0.011%

181	7.678	7.659	7.687	HH	248	3732	0.15%	0.009%
182	7.701	7.687	7.707	HH	346	3009	0.12%	0.008%
183	7.803	7.782	7.821	HH	371	5678	0.23%	0.014%
184	7.824	7.821	7.837	HH	254	2322	0.09%	0.006%
185	7.841	7.837	7.849	HH	244	1479	0.06%	0.004%
186	7.907	7.897	7.944	HH	269	5915	0.24%	0.015%
187	7.959	7.944	7.970	HH	301	3439	0.14%	0.009%
188	7.973	7.970	7.983	HH	252	1893	0.08%	0.005%
189	7.987	7.983	7.993	HH	242	1296	0.05%	0.003%
190	7.997	7.993	8.007	HH	217	1361	0.05%	0.003%
191	8.080	8.070	8.093	HH	278	2629	0.11%	0.007%
192	8.097	8.093	8.117	HH	294	2773	0.11%	0.007%
193	8.126	8.117	8.148	HH	251	3707	0.15%	0.009%
194	8.225	8.220	8.230	HH	392	2031	0.08%	0.005%
195	8.234	8.230	8.260	HH	381	5015	0.20%	0.013%
196	8.287	8.284	8.295	HH	228	1259	0.05%	0.003%
197	8.319	8.295	8.368	HH	486	13450	0.54%	0.034%
198	8.374	8.368	8.391	HH	421	4520	0.18%	0.011%
199	8.420	8.413	8.427	HH	303	2219	0.09%	0.006%
200	8.448	8.427	8.479	HH	511	10919	0.44%	0.027%
201	8.514	8.479	8.528	HH	498	10471	0.42%	0.026%
202	8.548	8.528	8.567	HH	727	11949	0.48%	0.030%
203	8.578	8.567	8.586	HH	572	5698	0.23%	0.014%
204	8.627	8.586	8.666	HH	184665	1958122	78.34%	4.896%
205	8.670	8.666	8.674	HH	411	1823	0.07%	0.005%
206	8.684	8.674	8.708	HH	493	8237	0.33%	0.021%
207	8.735	8.708	8.783	HH	1065	26479	1.06%	0.066%
208	8.788	8.783	8.842	HH	462	10056	0.40%	0.025%
209	8.904	8.883	8.915	HH	363	5008	0.20%	0.013%
210	8.927	8.915	8.946	HH	487	7431	0.30%	0.019%
211	8.952	8.946	8.975	HH	431	6538	0.26%	0.016%
212	8.985	8.975	8.991	HH	409	3581	0.14%	0.009%
213	9.001	8.991	9.017	HH	511	6901	0.28%	0.017%
214	9.036	9.017	9.052	HH	501	8654	0.35%	0.022%
215	9.078	9.052	9.082	HH	498	7610	0.30%	0.019%
216	9.169	9.128	9.209	HH	550	19417	0.78%	0.049%
217	9.246	9.244	9.260	HH	498	4179	0.17%	0.010%
218	9.288	9.260	9.326	HH	531	16724	0.67%	0.042%
219	9.452	9.418	9.474	HH	1325	22957	0.92%	0.057%

220	9.486	9.474	9.525	HH	593	13511	0.54%	0.034%
221	9.555	9.525	9.565	HH	395	7614	0.30%	0.019%
222	9.602	9.585	9.621	HH	457	8166	0.33%	0.020%
223	9.638	9.621	9.673	HH	590	13312	0.53%	0.033%
224	9.684	9.673	9.705	HH	477	7592	0.30%	0.019%
225	9.713	9.705	9.726	HH	431	4596	0.18%	0.011%
226	9.785	9.769	9.810	HH	1107	18945	0.76%	0.047%
227	9.874	9.854	9.888	HH	628	10330	0.41%	0.026%
228	9.905	9.888	9.938	HH	649	15448	0.62%	0.039%
229	9.973	9.938	9.981	HH	650	12909	0.52%	0.032%
230	9.996	9.981	10.000	HH	711	7322	0.29%	0.018%
231	10.013	10.000	10.042	HH	1096	16799	0.67%	0.042%
232	10.102	10.042	10.147	HH	93635	949148	37.97%	2.373%
233	10.152	10.147	10.158	HH	539	3453	0.14%	0.009%
234	10.169	10.158	10.194	HH	683	10633	0.43%	0.027%
235	10.236	10.194	10.287	HH	176165	1927046	77.09%	4.819%
236	10.309	10.287	10.325	HH	457	7983	0.32%	0.020%
237	10.340	10.325	10.374	HH	552	10859	0.43%	0.027%
238	10.393	10.374	10.429	HH	488	11384	0.46%	0.028%
239	10.436	10.429	10.441	HH	274	1667	0.07%	0.004%
240	10.469	10.441	10.475	HH	489	6746	0.27%	0.017%
241	10.482	10.475	10.495	HH	422	3953	0.16%	0.010%
242	10.512	10.495	10.517	HH	407	4496	0.18%	0.011%
243	10.521	10.517	10.525	HH	361	1573	0.06%	0.004%
244	10.531	10.525	10.533	HH	320	1388	0.06%	0.003%
245	10.538	10.533	10.545	HH	341	2166	0.09%	0.005%
246	10.576	10.545	10.607	HH	14603	160956	6.44%	0.402%
247	10.625	10.607	10.645	HH	669	11965	0.48%	0.030%
248	10.674	10.645	10.699	HH	832	20079	0.80%	0.050%
249	10.709	10.699	10.730	HH	615	9210	0.37%	0.023%
250	10.750	10.730	10.765	HH	664	10804	0.43%	0.027%
251	10.797	10.765	10.812	HH	550	13552	0.54%	0.034%
252	10.827	10.812	10.852	HH	643	13653	0.55%	0.034%
253	10.878	10.852	10.897	HH	964	18155	0.73%	0.045%
254	10.900	10.897	10.915	HH	549	5593	0.22%	0.014%
255	10.928	10.915	10.948	HH	771	12975	0.52%	0.032%
256	10.974	10.948	11.011	HH	1243	29591	1.18%	0.074%
257	11.039	11.011	11.043	HH	900	13406	0.54%	0.034%
258	11.049	11.043	11.060	HH	904	8508	0.34%	0.021%

259	11.074	11.060	11.112	HH	1047	24591	0.98%	0.061%
260	11.121	11.112	11.140	HH	651	9454	0.38%	0.024%
261	11.200	11.185	11.210	HH	1082	12797	0.51%	0.032%
262	11.229	11.210	11.243	HH	2965	35946	1.44%	0.090%
263	11.255	11.243	11.287	HH	1994	34550	1.38%	0.086%
264	11.304	11.287	11.331	HH	1553	26773	1.07%	0.067%
265	11.334	11.331	11.339	HH	702	3351	0.13%	0.008%
266	11.353	11.339	11.388	HH	779	19538	0.78%	0.049%
267	11.405	11.388	11.424	HH	686	13135	0.53%	0.033%
268	11.434	11.424	11.444	HH	596	6467	0.26%	0.016%
269	11.515	11.504	11.564	HH	960	26743	1.07%	0.067%
270	11.576	11.564	11.580	HH	718	6060	0.24%	0.015%
271	11.621	11.580	11.632	HH	846	23262	0.93%	0.058%
272	11.682	11.632	11.740	HH	169461	1993414	79.75%	4.985%
273	11.758	11.740	11.789	HH	1753	37420	1.50%	0.094%
274	11.793	11.789	11.815	HH	880	11866	0.47%	0.030%
275	11.838	11.815	11.857	HH	1087	22437	0.90%	0.056%
276	11.875	11.857	11.904	HH	1411	28891	1.16%	0.072%
277	11.943	11.904	11.993	HH	2002	65532	2.62%	0.164%
278	11.995	11.993	12.010	HH	1102	10573	0.42%	0.026%
279	12.034	12.010	12.049	HH	1860	31285	1.25%	0.078%
280	12.098	12.080	12.120	HH	2243	39319	1.57%	0.098%
281	12.132	12.120	12.137	HH	1165	10749	0.43%	0.027%
282	12.150	12.137	12.167	HH	1380	22730	0.91%	0.057%
283	12.183	12.167	12.196	HH	1453	21605	0.86%	0.054%
284	12.215	12.196	12.246	HH	1511	34225	1.37%	0.086%
285	12.350	12.310	12.373	HH	1721	48480	1.94%	0.121%
286	12.389	12.373	12.417	HH	1706	38792	1.55%	0.097%
287	12.507	12.484	12.548	HH	1707	55063	2.20%	0.138%
288	12.605	12.548	12.669	HH	113587	1524958	61.01%	3.813%
289	12.682	12.669	12.699	HH	3043	49258	1.97%	0.123%
290	12.712	12.699	12.756	HH	2969	88455	3.54%	0.221%
291	12.762	12.756	12.766	HH	2209	13333	0.53%	0.033%
292	12.779	12.766	12.792	HH	2323	35113	1.40%	0.088%
293	12.794	12.792	12.808	HH	2327	21360	0.85%	0.053%
294	12.824	12.808	12.862	HH	2803	75406	3.02%	0.189%
295	12.879	12.862	12.898	HH	2438	47236	1.89%	0.118%
296	12.935	12.898	12.954	HH	3415	88688	3.55%	0.222%
297	12.994	12.954	13.028	HH	165213	2059359	82.39%	5.149%

298	13.052	13.028	13.068	HH	8151	127190	5.09%	0.318%
299	13.073	13.068	13.103	HH	5483	78686	3.15%	0.197%
300	13.116	13.103	13.139	HH	2233	47128	1.89%	0.118%
301	13.152	13.139	13.157	HH	2208	23158	0.93%	0.058%
302	13.161	13.157	13.165	HH	2194	10952	0.44%	0.027%
303	13.239	13.221	13.282	HH	3356	106330	4.25%	0.266%
304	13.294	13.282	13.309	HH	2699	42779	1.71%	0.107%
305	13.315	13.309	13.324	HH	2563	22406	0.90%	0.056%
306	13.351	13.324	13.372	HH	7951	130620	5.23%	0.327%
307	13.431	13.417	13.467	HH	3501	93272	3.73%	0.233%
308	13.483	13.467	13.505	HH	2984	64305	2.57%	0.161%
309	13.528	13.505	13.533	HH	3240	53283	2.13%	0.133%
310	13.545	13.533	13.575	HH	3403	79056	3.16%	0.198%
311	13.682	13.662	13.703	HH	4588	105740	4.23%	0.264%
312	13.726	13.703	13.764	HH	4535	152264	6.09%	0.381%
313	13.810	13.764	13.817	HH	4482	137283	5.49%	0.343%
314	13.834	13.817	13.892	HH	18629	377230	15.09%	0.943%
315	13.896	13.892	13.902	HH	4548	27057	1.08%	0.068%
316	13.941	13.902	13.972	HH	5652	201579	8.06%	0.504%
317	13.990	13.972	13.999	HH	4477	70264	2.81%	0.176%
318	14.013	13.999	14.026	HH	4613	74640	2.99%	0.187%
319	14.047	14.026	14.074	HH	5325	140583	5.62%	0.352%
320	14.146	14.108	14.162	HH	5708	162585	6.50%	0.407%
321	14.196	14.162	14.235	HH	157011	2117459	84.71%	5.295%
322	14.241	14.235	14.245	HH	5029	28322	1.13%	0.071%
323	14.262	14.245	14.280	HH	5244	104690	4.19%	0.262%
324	14.401	14.375	14.418	HH	5710	135566	5.42%	0.339%
325	14.425	14.418	14.431	HH	5253	42066	1.68%	0.105%
326	14.435	14.431	14.455	HH	5246	72702	2.91%	0.182%
327	14.466	14.455	14.472	HH	5118	52089	2.08%	0.130%
328	14.476	14.472	14.501	HH	5160	87502	3.50%	0.219%
329	14.584	14.535	14.615	HH	8204	293484	11.74%	0.734%
330	14.628	14.615	14.643	HH	5929	97710	3.91%	0.244%
331	14.676	14.643	14.694	HH	6342	181530	7.26%	0.454%
332	14.760	14.736	14.782	HH	7375	177793	7.11%	0.445%
333	14.787	14.782	14.803	HH	6209	78545	3.14%	0.196%
334	14.978	14.946	15.001	HH	6994	214179	8.57%	0.536%
335	15.020	15.001	15.034	HH	6355	123364	4.94%	0.308%
336	15.039	15.034	15.047	HH	6421	50627	2.03%	0.127%

337	15.096	15.047	15.130	HH	81480	1345580	53.83%	3.365%
338	15.142	15.130	15.165	HH	7444	148612	5.95%	0.372%
339	15.184	15.165	15.209	HH	7026	175372	7.02%	0.439%
340	15.301	15.249	15.333	HH	159295	2291542	91.68%	5.730%
341	15.346	15.333	15.367	HH	7455	146253	5.85%	0.366%
342	15.443	15.434	15.453	HH	7100	81021	3.24%	0.203%
343	15.490	15.453	15.512	HH	7444	258650	10.35%	0.647%
344	15.583	15.565	15.610	HH	7675	201399	8.06%	0.504%
345	15.679	15.610	15.757	HH	52275	1325544	53.03%	3.315%
346	15.822	15.757	15.862	HH	10996	582357	23.30%	1.456%
347	15.946	15.927	15.975	HH	9781	269749	10.79%	0.675%
348	16.104	16.100	16.119	HH	9790	107622	4.31%	0.269%
349	16.146	16.119	16.167	HH	10384	292221	11.69%	0.731%
350	16.170	16.167	16.175	HH	9891	45846	1.83%	0.115%
351	16.253	16.233	16.265	HH	10489	200940	8.04%	0.502%
352	16.325	16.265	16.369	HH	147282	2499635	100.00%	6.250%
353	16.386	16.369	16.407	HH	11394	252899	10.12%	0.632%
354	16.420	16.407	16.425	HH	10901	119066	4.76%	0.298%
355	16.576	16.564	16.582	HH	12009	128236	5.13%	0.321%
356	16.625	16.582	16.661	HH	15525	626541	25.07%	1.567%
357	16.695	16.661	16.746	HH	27246	874704	34.99%	2.187%
358	16.890	16.842	16.907	HH	16873	600038	24.01%	1.500%
359	16.927	16.907	16.949	HH	16102	394981	15.80%	0.988%
360	17.013	16.996	17.021	HH	16589	248018	9.92%	0.620%

Sum of corrected areas: 39991990

Report of Analysis

Client:	CDM Smith	Date Collected:	06/27/25
Project:	South River WM Replacement	Date Received:	06/27/25
Client Sample ID:	TP-67MSD	SDG No.:	Q2458
Lab Sample ID:	Q2458-04MSD	Matrix:	SOIL
Analytical Method:	8015D DRO	% Solid:	89.7
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
FF016082.D	1	07/02/25 09:17	07/02/25 22:35	PB168701

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
DRO	DRO	10900		188	1860	ug/kg
SURROGATES						
16416-32-3	Tetracosane-d50	7.76		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\FF070225\
 Data File : FF016082.D
 Signal(s) : FID2B.ch
 Acq On : 02 Jul 2025 22:35
 Operator : YP\AJ
 Sample : Q2458-04MSD
 Misc :
 ALS Vial : 86 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 TP-67MSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/03/2025
 Supervised By :mohammad ahmed 07/04/2025

Integration File: autoint1.e
 Quant Time: Jul 03 03:23:50 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...	15.095	936958	7.760 ug/mlm
Target Compounds			
2) N-DECANE	4.617	1652035	12.609 ug/ml
3) N-DODECANE	6.793	1655067	12.429 ug/ml
4) N-TETRADECANE	8.626	1662370	12.404 ug/ml
5) N-HEXADECANE	10.235	1638345	12.131 ug/ml
6) N-OCTADECANE	11.681	1657295	11.955 ug/ml
7) N-EICOSANE	12.993	1684346	12.062 ug/ml
8) N-DOCOSANE	14.195	1628317	11.985 ug/ml
10) N-TETRACOSANE	15.300	1664765	12.283 ug/ml
11) N-HEXACOSANE	16.324	1593028	11.867 ug/ml
12) N-OCTACOSANE	17.276	1604280	12.152 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF070225\
Data File : FF016082.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 22:35
Operator : YP\AJ
Sample : Q2458-04MSD
Misc :
ALS Vial : 86 Sample Multiplier: 1

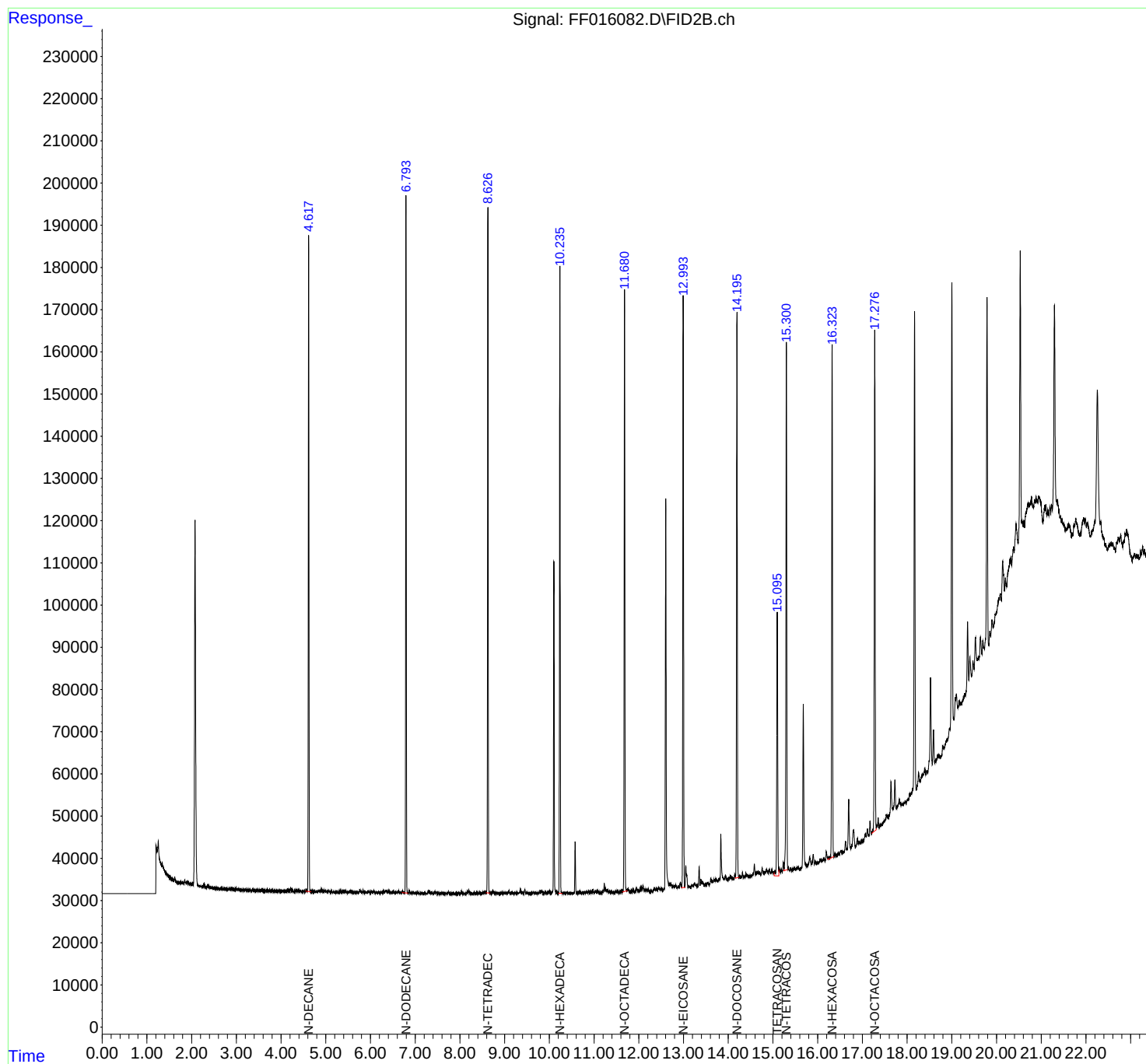
Instrument :
FID_F
ClientSampleId :
TP-67MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/03/2025
Supervised By :mohammad ahmed 07/04/2025

Integration File: autoint1.e
Quant Time: Jul 03 03:23:50 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

Instrument :

FID_F

ClientSampleId :

TP-67MSD

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF07022
Data File : FF016082.D
Signal(s) : FID2B.ch
Acq On : 02 Jul 2025 22:35
Sample : Q2458-04MSD
Misc :
ALS Vial : 86 Sample Multiplier: 1

Reviewed By :Yogesh Patel 07/03/2025
Supervised By :mohammad ahmed 07/04/2025

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	4.484	4.481	4.488	HH	506	2062	0.08%	0.005%
2	4.513	4.488	4.524	HH	589	11226	0.44%	0.028%
3	4.528	4.524	4.539	HH	536	4279	0.17%	0.011%
4	4.568	4.539	4.588	HH	830	18581	0.73%	0.046%
5	4.618	4.588	4.673	HH	155953	1673495	66.11%	4.116%
6	4.692	4.673	4.725	HH	626	15774	0.62%	0.039%
7	4.754	4.725	4.773	HH	528	12956	0.51%	0.032%
8	4.784	4.773	4.788	HH	583	4486	0.18%	0.011%
9	4.798	4.788	4.803	HH	596	4822	0.19%	0.012%
10	4.808	4.803	4.813	HH	540	2768	0.11%	0.007%
11	4.836	4.813	4.840	HH	623	9309	0.37%	0.023%
12	4.846	4.840	4.864	HH	668	8668	0.34%	0.021%
13	4.871	4.864	4.884	HH	641	6773	0.27%	0.017%
14	4.903	4.884	4.920	HH	1089	16240	0.64%	0.040%
15	4.930	4.920	4.957	HH	732	14483	0.57%	0.036%
16	4.979	4.957	5.003	HH	747	15729	0.62%	0.039%
17	5.019	5.003	5.050	HH	557	13339	0.53%	0.033%
18	5.062	5.050	5.110	HH	654	18114	0.72%	0.045%
19	5.131	5.110	5.185	HH	624	17339	0.68%	0.043%
20	5.205	5.185	5.219	HH	428	6768	0.27%	0.017%
21	5.236	5.219	5.243	HH	418	5060	0.20%	0.012%
22	5.247	5.243	5.261	HH	378	3232	0.13%	0.008%
23	5.273	5.261	5.277	HH	372	3077	0.12%	0.008%
24	5.299	5.277	5.313	HH	535	8367	0.33%	0.021%
25	5.334	5.313	5.352	HH	651	10587	0.42%	0.026%
26	5.373	5.352	5.389	HH	600	9502	0.38%	0.023%
27	5.431	5.389	5.482	HH	558	23450	0.93%	0.058%
28	5.497	5.482	5.524	HH	366	7129	0.28%	0.018%
29	5.542	5.524	5.547	HH	405	4630	0.18%	0.011%
30	5.560	5.547	5.579	HH	771	10014	0.40%	0.025%
31	5.583	5.579	5.588	HH	345	1614	0.06%	0.004%
32	5.599	5.588	5.617	HH	417	5357	0.21%	0.013%
33	5.632	5.617	5.658	HH	368	7523	0.30%	0.019%
34	5.670	5.658	5.681	HH	332	3973	0.16%	0.010%
35	5.694	5.681	5.712	HH	331	4934	0.19%	0.012%
36	5.721	5.712	5.724	HH	233	1362	0.05%	0.003%

					rters			
37	5.733	5.724	5.740	HH	237	2076	0.08%	0.005%
38	5.760	5.740	5.781	HH	1078	14932		
39	5.791	5.781	5.818	HH	604	8772		
40	5.833	5.818	5.852	HH	768	9886		
41	5.857	5.852	5.873	HH	373	3610		
42	5.887	5.873	5.905	HH	349	4865		
43	5.912	5.905	5.920	HH	269	2158	0.09%	0.005%
44	5.948	5.920	5.986	HH	550	14044	0.55%	0.035%
45	5.993	5.986	6.008	HH	373	3755	0.15%	0.009%
46	6.022	6.008	6.047	HH	575	8476	0.33%	0.021%
47	6.073	6.047	6.108	HH	606	12945	0.51%	0.032%
48	6.125	6.108	6.149	HH	484	6762	0.27%	0.017%
49	6.154	6.149	6.158	HH	187	852	0.03%	0.002%
50	6.175	6.158	6.188	HH	259	3959	0.16%	0.010%
51	6.192	6.188	6.216	HH	292	3753	0.15%	0.009%
52	6.232	6.216	6.244	HH	309	3988	0.16%	0.010%
53	6.251	6.244	6.274	HH	256	3735	0.15%	0.009%
54	6.295	6.274	6.313	HH	558	9248	0.37%	0.023%
55	6.348	6.313	6.380	HH	886	20122	0.79%	0.049%
56	6.403	6.380	6.418	HH	612	9781	0.39%	0.024%
57	6.436	6.418	6.456	HH	368	6413	0.25%	0.016%
58	6.465	6.456	6.472	HH	261	1988	0.08%	0.005%
59	6.483	6.472	6.488	HH	337	2373	0.09%	0.006%
60	6.507	6.488	6.547	HH	473	10111	0.40%	0.025%
61	6.557	6.547	6.565	HH	234	1866	0.07%	0.005%
62	6.584	6.565	6.605	HH	354	5761	0.23%	0.014%
63	6.629	6.605	6.663	HH	697	12809	0.51%	0.032%
64	6.679	6.663	6.701	HH	292	5250	0.21%	0.013%
65	6.716	6.701	6.764	HH	516	11683	0.46%	0.029%
66	6.793	6.764	6.850	HH	165365	1658736	65.53%	4.079%
67	6.866	6.850	6.899	HH	856	10870	0.43%	0.027%
68	6.903	6.899	6.910	HH	109	770	0.03%	0.002%
69	6.919	6.910	6.931	HH	229	1826	0.07%	0.004%
70	6.949	6.931	6.973	HH	363	4748	0.19%	0.012%
71	6.981	6.973	6.991	HH	174	1256	0.05%	0.003%
72	6.997	6.991	7.012	HH	149	1350	0.05%	0.003%
73	7.027	7.012	7.042	HH	113	1114	0.04%	0.003%
74	7.056	7.042	7.063	PH	175	1325	0.05%	0.003%
75	7.072	7.063	7.103	HH	141	1515	0.06%	0.004%
76	7.125	7.103	7.155	HH	179	2489	0.10%	0.006%
77	7.157	7.155	7.175	HH	91	565	0.02%	0.001%
78	7.199	7.175	7.224	PH	110	1892	0.07%	0.005%
79	7.227	7.224	7.256	HH	118	696	0.03%	0.002%
80	7.288	7.256	7.312	PH	667	9512	0.38%	0.023%
81	7.327	7.312	7.357	HH	341	5653	0.22%	0.014%
82	7.372	7.357	7.396	HH	175	2239	0.09%	0.006%
83	7.399	7.396	7.405	HH	60	178	0.01%	0.000%
84	7.431	7.405	7.444	PH	246	2602	0.10%	0.006%
85	7.462	7.444	7.503	HH	450	5427	0.21%	0.013%
86	7.519	7.503	7.548	PH	164	1163	0.05%	0.003%
87	7.573	7.548	7.592	PH	151	1241	0.05%	0.003%
88	7.604	7.592	7.612	HH	97	351	0.01%	0.001%
89	7.617	7.612	7.631	PH	85	271	0.01%	0.001%

Instrument :

FID_F

ClientSampleId :

TP-67MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/03/2025

Supervised By :mohammad ahmed 07/04/2025

90	7.637	7.631	7.663	PH	102	488	0.02%	0.001%
91	7.689	7.663	7.708	PH	100	686		
92	7.715	7.708	7.721	PH	132	577		
93	7.743	7.721	7.783	HH	498	5258		
94	7.785	7.783	7.791	PH	24	-31	-0.00%	-0.000%
95	7.801	7.791	7.807	PH	104	114		
96	7.810	7.807	7.821	PH	6	-95	-0.00%	-0.000%
97	7.825	7.821	7.858	PH	50	168	0.01%	0.000%
98	7.874	7.858	7.891	PH	88	486	0.02%	0.001%
99	7.916	7.891	7.920	PH	72	108	0.00%	0.000%
100	7.924	7.920	7.936	PH	28	-172	-0.01%	-0.000%
101	7.964	7.936	7.974	PH	80	-425	-0.02%	-0.001%
102	7.980	7.974	8.002	PH	10	-746	-0.03%	-0.002%
103	8.031	8.002	8.071	PH	672	5983	0.24%	0.015%
104	8.075	8.071	8.082	PH	44	-66	-0.00%	-0.000%
105	8.086	8.082	8.090	PH	31	15	0.00%	0.000%
106	8.094	8.090	8.106	PH	43	-22	-0.00%	-0.000%
107	8.146	8.106	8.151	PH	146	158	0.01%	0.000%
108	8.166	8.151	8.185	PH	550	6597	0.26%	0.016%
109	8.201	8.185	8.283	HH	733	10523	0.42%	0.026%
110	8.287	8.283	8.296	PH	-9	-467	-0.02%	-0.001%
111	8.318	8.296	8.347	PH	210	2369	0.09%	0.006%
112	8.356	8.347	8.363	HH	108	378	0.01%	0.001%
113	8.378	8.363	8.404	PH	211	1483	0.06%	0.004%
114	8.445	8.404	8.471	PH	228	2829	0.11%	0.007%
115	8.479	8.471	8.491	PH	120	449	0.02%	0.001%
116	8.519	8.491	8.528	HH	244	3528	0.14%	0.009%
117	8.546	8.528	8.567	HH	439	5979	0.24%	0.015%
118	8.577	8.567	8.585	HH	286	2384	0.09%	0.006%
119	8.626	8.585	8.668	HH	162471	1670305	65.98%	4.108%
120	8.682	8.668	8.697	HH	229	2390	0.09%	0.006%
121	8.734	8.697	8.778	HH	774	12432	0.49%	0.031%
122	8.784	8.778	8.845	HH	163	865	0.03%	0.002%
123	8.853	8.845	8.884	PH	72	664	0.03%	0.002%
124	8.903	8.884	8.909	PH	74	34	0.00%	0.000%
125	8.931	8.909	8.942	PH	159	1377	0.05%	0.003%
126	8.958	8.942	8.979	HH	177	2088	0.08%	0.005%
127	8.993	8.979	9.023	HH	200	2457	0.10%	0.006%
128	9.029	9.023	9.045	HH	167	1321	0.05%	0.003%
129	9.097	9.045	9.124	PH	659	10395	0.41%	0.026%
130	9.130	9.124	9.135	HH	147	627	0.02%	0.002%
131	9.160	9.135	9.207	HH	269	4485	0.18%	0.011%
132	9.233	9.207	9.244	PH	168	1853	0.07%	0.005%
133	9.250	9.244	9.261	HH	131	1096	0.04%	0.003%
134	9.279	9.261	9.326	HH	257	5083	0.20%	0.012%
135	9.353	9.326	9.381	HH	1028	16428	0.65%	0.040%
136	9.396	9.381	9.415	HH	343	3855	0.15%	0.009%
137	9.421	9.415	9.428	PH	77	357	0.01%	0.001%
138	9.451	9.428	9.475	PH	922	11853	0.47%	0.029%
139	9.487	9.475	9.525	HH	355	4944	0.20%	0.012%
140	9.528	9.525	9.536	PH	26	199	0.01%	0.000%
141	9.542	9.536	9.553	HH	66	243	0.01%	0.001%

Instrument :

FID_F

ClientSampleId :

TP-67MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/03/2025

Supervised By :mohammad ahmed 07/04/2025

142	9.558	9.553	9.563	PH	31	39	0.00%	0.000%
143	9.567	9.563	9.571	PH	25	-68	-0.00%	-0.000%
144	9.600	9.571	9.619	PH	157	1502	0.00%	0.000%
145	9.632	9.619	9.637	PH	264	1468	0.00%	0.000%
146	9.640	9.637	9.662	HH	309	2307	0.04%	0.003%
147	9.665	9.662	9.674	PH	84	128	0.01%	0.000%
148	9.690	9.674	9.708	PH	138	1028	0.01%	0.000%
149	9.713	9.708	9.728	PH	83	201	0.03%	0.002%
150	9.738	9.728	9.752	PH	135	873	0.01%	0.001%
151	9.755	9.752	9.762	HH	109	221	0.37%	0.023%
152	9.786	9.762	9.809	PH	698	9245	0.48%	0.030%
153	9.830	9.809	9.858	HH	761	12038	0.13%	0.008%
154	9.873	9.858	9.886	HH	288	3216	0.14%	0.009%
155	9.902	9.886	9.916	HH	273	3507	0.07%	0.004%
156	9.922	9.916	9.939	HH	218	1647	0.02%	0.001%
157	9.946	9.939	9.950	PH	148	425	0.23%	0.015%
158	9.970	9.950	9.995	HH	305	5913	0.35%	0.022%
159	10.014	9.995	10.040	HH	746	8743	31.59%	1.967%
160	10.101	10.040	10.157	PH	78725	799772	0.19%	0.012%
161	10.167	10.157	10.193	HH	411	4868	64.84%	4.036%
162	10.235	10.193	10.289	HH	148714	1641287	0.07%	0.004%
163	10.313	10.289	10.325	HH	175	1719	0.11%	0.007%
164	10.340	10.325	10.365	HH	279	2870	0.13%	0.008%
165	10.390	10.365	10.431	PH	208	3393	0.08%	0.005%
166	10.459	10.431	10.500	PH	160	2150	0.04%	0.003%
167	10.509	10.500	10.535	HH	124	1043	0.03%	0.002%
168	10.541	10.535	10.553	HH	117	788	5.10%	0.318%
169	10.576	10.553	10.608	PH	12295	129202	0.18%	0.011%
170	10.623	10.608	10.644	HH	338	4600	0.41%	0.025%
171	10.678	10.644	10.704	HH	495	10362	0.10%	0.006%
172	10.708	10.704	10.730	HH	277	2601	0.21%	0.013%
173	10.748	10.730	10.777	HH	281	5385	0.17%	0.011%
174	10.788	10.777	10.812	HH	273	4377	0.23%	0.015%
175	10.834	10.812	10.849	HH	349	5910	0.42%	0.026%
176	10.877	10.849	10.906	HH	592	10689	0.30%	0.019%
177	10.933	10.906	10.942	HH	492	7662	0.74%	0.046%
178	10.973	11.007	11.007	HH	892	18749	0.26%	0.016%
179	11.035	11.007	11.039	HH	554	6597	0.24%	0.015%
180	11.044	11.039	11.062	HH	521	6150	0.47%	0.029%
181	11.074	11.062	11.104	HH	685	11968	0.26%	0.016%
182	11.106	11.104	11.154	HH	383	6672	0.11%	0.007%
183	11.166	11.154	11.178	HH	249	2869	0.33%	0.021%
184	11.200	11.178	11.209	HH	736	8436	1.07%	0.067%
185	11.228	11.209	11.243	HH	2382	27130	0.90%	0.056%
186	11.256	11.243	11.287	HH	1403	22874	0.69%	0.043%
187	11.303	11.287	11.332	HH	1065	17427	0.19%	0.012%
188	11.348	11.332	11.354	HH	444	4909	0.14%	0.009%
189	11.356	11.354	11.369	HH	435	3482	0.15%	0.010%
190	11.373	11.369	11.389	HH	383	3881	0.42%	0.026%
191	11.403	11.389	11.449	HH	434	10744	0.45%	0.028%
192	11.485	11.449	11.503	HH	627	11496	0.29%	0.018%
193	11.516	11.503	11.530	HH	547	7296	0.27%	0.017%
194	11.541	11.530	11.562	HH	515	6881		

Instrument :

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TP-67MSD

Manual IntegrationsAPPROVED

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Supervised By :mohammad ahmed 07/04/2025

195	11.593	11.562	11.597	HH	443	7391	0.29%	0.018%
196	11.681	11.597	11.744	HH	142906	1702709	67.33%	4.292%
197	11.758	11.744	11.814	HH	1191	29718	3.96%	0.246%
198	11.832	11.814	11.852	HH	694	12417	2.33%	0.145%
199	11.875	11.852	11.901	HH	946	17689	1.30%	0.081%
200	11.924	11.901	11.929	HH	648	7895	1.17%	0.073%
201	11.945	11.929	11.980	HH	1329	28732	1.14%	0.071%
202	11.984	11.980	12.012	HH	808	13017	0.51%	0.032%
203	12.034	12.012	12.048	HH	1431	20731	0.82%	0.051%
204	12.064	12.048	12.080	HH	1470	20891	0.83%	0.051%
205	12.098	12.080	12.124	HH	1817	31368	1.24%	0.077%
206	12.129	12.124	12.139	HH	774	6703	0.26%	0.016%
207	12.157	12.139	12.172	HH	979	17667	0.70%	0.043%
208	12.182	12.172	12.199	HH	1054	13764	0.54%	0.034%
209	12.213	12.199	12.250	HH	1046	21627	0.85%	0.053%
210	12.258	12.250	12.269	HH	586	6194	0.24%	0.015%
211	12.286	12.269	12.306	HH	711	13486	0.53%	0.033%
212	12.350	12.306	12.372	HH	1283	33744	1.33%	0.083%
213	12.387	12.372	12.420	HH	1111	28264	1.12%	0.070%
214	12.447	12.420	12.487	HH	1508	45680	1.80%	0.112%
215	12.507	12.487	12.529	HH	1208	25813	1.02%	0.063%
216	12.535	12.529	12.548	HH	922	9941	0.39%	0.024%
217	12.568	12.548	12.573	HH	1159	15748	0.62%	0.039%
218	12.604	12.573	12.669	HH	93482	1250190	49.39%	3.075%
219	12.681	12.669	12.696	HH	2380	35519	1.40%	0.087%
220	12.710	12.696	12.721	HH	2327	32131	1.27%	0.079%
221	12.725	12.721	12.762	HH	2150	45171	1.78%	0.111%
222	12.779	12.762	12.807	HH	1693	44097	1.74%	0.108%
223	12.822	12.807	12.860	HH	2093	54479	2.15%	0.134%
224	12.878	12.860	12.902	HH	1782	39294	1.55%	0.097%
225	12.932	12.902	12.957	HH	2630	65276	2.58%	0.161%
226	12.993	12.957	13.028	HH	141823	1745079	68.94%	4.292%
227	13.052	13.028	13.067	HH	6660	100168	3.96%	0.246%
228	13.073	13.067	13.099	HH	4359	59060	2.33%	0.145%
229	13.117	13.099	13.134	HH	1683	33015	1.30%	0.081%
230	13.151	13.134	13.165	HH	1607	29529	1.17%	0.073%
231	13.189	13.165	13.223	HH	1984	63116	2.49%	0.155%
232	13.245	13.223	13.279	HH	2413	71662	2.83%	0.176%
233	13.290	13.279	13.311	HH	1979	36770	1.45%	0.090%
234	13.319	13.311	13.326	HH	1824	16234	0.64%	0.040%
235	13.350	13.326	13.372	HH	6292	98824	3.90%	0.243%
236	13.392	13.372	13.418	HH	3273	75801	2.99%	0.186%
237	13.425	13.418	13.462	HH	2646	60490	2.39%	0.149%
238	13.482	13.462	13.508	HH	2173	56184	2.22%	0.138%
239	13.550	13.508	13.572	HH	2496	88695	3.50%	0.218%
240	13.576	13.572	13.580	HH	2037	10122	0.40%	0.025%
241	13.609	13.580	13.630	HH	3295	82509	3.26%	0.203%
242	13.636	13.630	13.658	HH	3030	49202	1.94%	0.121%
243	13.685	13.658	13.702	HH	3414	81847	3.23%	0.201%
244	13.726	13.702	13.765	HH	3445	118947	4.70%	0.293%
245	13.799	13.765	13.818	HH	3478	104619	4.13%	0.257%
246	13.834	13.818	13.902	HH	14027	306725	12.12%	0.754%

Instrument :

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TP-67MSD

Manual IntegrationsAPPROVED

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247	13.938	13.902	13.975	HH	4362	162897	6.44%	0.401%
248	13.985	13.975	14.000	HH	3446	50912		
249	14.011	14.000	14.025	HH	3533	52133		
250	14.052	14.025	14.079	HH	4239	123071		
251	14.087	14.079	14.113	HH	3946	75901		
252	14.145	14.113	14.162	HH	4620	116834		
253	14.195	14.162	14.242	HH	138049	1809026	71.46%	4.449%
254	14.257	14.242	14.275	HH	4193	80176	3.17%	0.197%
255	14.317	14.275	14.339	HH	4975	160095	6.32%	0.394%
256	14.345	14.339	14.355	HH	4024	37316	1.47%	0.092%
257	14.362	14.355	14.370	HH	3956	36677	1.45%	0.090%
258	14.398	14.370	14.427	HH	4685	145298	5.74%	0.357%
259	14.433	14.427	14.441	HH	4321	35570	1.41%	0.087%
260	14.444	14.441	14.459	HH	4170	45168	1.78%	0.111%
261	14.472	14.459	14.484	HH	4207	60420	2.39%	0.149%
262	14.494	14.484	14.509	HH	4230	61868	2.44%	0.152%
263	14.527	14.509	14.532	HH	4354	59564	2.35%	0.146%
264	14.584	14.532	14.610	HH	7046	241344	9.53%	0.594%
265	14.624	14.610	14.630	HH	4920	57281	2.26%	0.141%
266	14.634	14.630	14.640	HH	4888	28070	1.11%	0.069%
267	14.674	14.640	14.697	HH	5291	167155	6.60%	0.411%
268	14.703	14.697	14.709	HH	4831	33672	1.33%	0.083%
269	14.715	14.709	14.735	HH	4839	73695	2.91%	0.181%
270	14.759	14.735	14.798	HH	6060	199290	7.87%	0.490%
271	14.813	14.798	14.840	HH	5172	127886	5.05%	0.315%
272	14.858	14.840	14.900	HH	5878	190421	7.52%	0.468%
273	14.920	14.900	14.940	HH	5836	130221	5.14%	0.320%
274	14.978	14.940	15.003	HH	5786	194392	7.68%	0.478%
275	15.015	15.003	15.042	HH	5221	119065	4.70%	0.293%
276	15.046	15.042	15.060	HH	5185	55837	2.21%	0.137%
277	15.095	15.060	15.129	HH	66704	1087098	42.95%	2.673%
278	15.140	15.129	15.168	HH	5947	132156	5.22%	0.325%
279	15.185	15.168	15.206	HH	5640	123283	4.87%	0.303%
280	15.231	15.206	15.247	HH	7464	153376	6.06%	0.377%
281	15.300	15.247	15.332	HH	130572	1949327	77.01%	4.794%
282	15.346	15.332	15.373	HH	6136	141537	5.59%	0.348%
283	15.394	15.373	15.428	HH	6079	189445	7.48%	0.466%
284	15.434	15.428	15.442	HH	5676	46209	1.83%	0.114%
285	15.444	15.442	15.450	HH	5689	27246	1.08%	0.067%
286	15.472	15.450	15.477	HH	5940	93692	3.70%	0.230%
287	15.488	15.477	15.514	HH	5988	127993	5.06%	0.315%
288	15.539	15.514	15.545	HH	6006	111349	4.40%	0.274%
289	15.554	15.545	15.559	HH	6062	50943	2.01%	0.125%
290	15.576	15.559	15.610	HH	6114	179635	7.10%	0.442%
291	15.631	15.610	15.635	HH	6062	89199	3.52%	0.219%
292	15.679	15.635	15.746	HH	44831	963606	38.07%	2.370%
293	15.751	15.746	15.759	HH	6586	51424	2.03%	0.126%
294	15.821	15.759	15.854	HH	8786	419879	16.59%	1.033%
295	15.901	15.854	15.928	HH	9333	346084	13.67%	0.851%
296	15.943	15.928	15.962	HH	7658	152336	6.02%	0.375%
297	15.973	15.962	15.984	HH	7232	95805	3.78%	0.236%
298	16.006	15.984	16.019	HH	7273	148225	5.86%	0.365%
299	16.064	16.019	16.104	HH	8120	401035	15.84%	0.986%

Instrument :

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ClientSampleId :

TP-67MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/03/2025

Supervised By :mohammad ahmed 07/04/2025

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ClientSampleId :

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300	16.144	16.104	16.171	HH	8198	316569	12.51%	0.779%
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Manual IntegrationsAPPROVED

301	16.196	16.171	16.228	HH	9749	301914	11	Manual Integration
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302	16.234	16.228	16.240	HH	8489	58867	2
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303	16.249	16.240	16.263	HH	8577	121939	4	Reviewed By :Yog
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304	16.324	16.263	16.362	HH	129812	2090977	82	Supervised By :m
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305	16.387	16.362	16.410	HH	9511	263091	10
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306	16.427	16.410	16.435	HH	9149	134328	5.31%	0.330%
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307	16.466	16.435	16.475	HH	9378	222063	8.77%	0.546%
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308	16.519	16.475	16.561	HH	10107	502210	19.84%	1.235%
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309	16.574	16.561	16.580	HH	9818	109902	4.34%	0.270%
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310	16.625	16.580	16.663	HH	12410	537009	21.21%	1.321%
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311	16.695	16.663	16.742	HH	22390	679872	26.86%	1.672%
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312	16.806	16.742	16.842	HH	15119	759981	30.02%	1.869%
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313	16.889	16.842	16.907	HH	13095	467785	18.48%	1.150%
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314	16.927	16.907	16.947	HH	12321	285334	11.27%	0.702%
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315	16.961	16.947	16.967	HH	12277	149284	5.90%	0.367%
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316	17.004	16.967	17.009	HH	12545	308712	12.20%	0.759%
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317	17.018	17.009	17.022	HH	12571	98421	3.89%	0.242%
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318	17.061	17.022	17.082	HH	13926	480390	18.98%	1.181%
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319	17.113	17.082	17.139	HH	15348	489186	19.33%	1.203%
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320	17.171	17.139	17.205	HH	17180	595697	23.53%	1.465%
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321	17.276	17.205	17.310	HH	132896	2531361	100.00%	6.225%
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322	17.326	17.310	17.337	HH	16288	254017	10.03%	0.625%
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323	17.352	17.337	17.374	HH	17884	373840	14.77%	0.919%
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324	17.432	17.374	17.439	HH	16408	632975	25.01%	1.557%
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325	17.486	17.439	17.490	HH	17209	515173	20.35%	1.267%
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Sum of corrected areas: 40662317

FF061325.M Thu Jul 03 06:49:53 2025

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
Q2458-04MSD		FF016082.D	FF070225	TETRACOSANE-d50 (SURROGA	mohammad	7/4/2025 4:31:52 AM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FF016086.D	FF070225	N-OCTACOSANE	mohammad	7/4/2025 4:31:52 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
.BLK		FF016088.D	FF070325	TETRACOSANE-d50 (SURROGA	mohammad	7/8/2025 9:13:52 AM	Peak Integrated by Software incorrectly
Q2458-05		FF016092.D	FF070325	TETRACOSANE-d50 (SURROGA	mohammad	7/8/2025 9:13:52 AM	Peak Integrated by Software incorrectly
Q2458-06		FF016093.D	FF070325	TETRACOSANE-d50 (SURROGA	mohammad	7/8/2025 9:13:52 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
Q2484-04		FG016210.D	FG070225	TETRACOSANE-d50 (SURROGA	mohammad	7/8/2025 9:13:31 AM	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 # FF070225

Review By	yogesh	Review On	7/2/2025 11:59:46 AM
Supervise By	mohammad	Supervise On	7/4/2025 4:31:52 AM
SubDirectory	FF070225	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	FF016061.D	02 Jul 2025 10:48	YP\AJ	Ok
2	I.BLK	FF016062.D	02 Jul 2025 11:18	YP\AJ	Ok
3	50 PPM TRPH STD	FF016063.D	02 Jul 2025 11:53	YP\AJ	Ok
4	RT MARKER	FF016064.D	02 Jul 2025 12:24	YP\AJ	Ok
5	PB168697BL	FF016065.D	02 Jul 2025 13:33	YP\AJ	Ok
6	PB168697BS	FF016066.D	02 Jul 2025 14:03	YP\AJ	Not Ok
7	PB168697BSD	FF016067.D	02 Jul 2025 14:33	YP\AJ	Not Ok
8	Q2458-10	FF016068.D	02 Jul 2025 15:02	YP\AJ	Ok
9	IDOC1	FF016069.D	02 Jul 2025 15:36	YP\AJ	Ok
10	IDOC2	FF016070.D	02 Jul 2025 16:06	YP\AJ	Ok
11	IDOC3	FF016071.D	02 Jul 2025 16:36	YP\AJ	Ok
12	IDOC4	FF016072.D	02 Jul 2025 17:06	YP\AJ	Ok
13	I.BLK	FF016073.D	02 Jul 2025 17:36	YP\AJ	Ok
14	50 PPM TRPH STD	FF016074.D	02 Jul 2025 18:06	YP\AJ	Ok
15	PB168701BL	FF016075.D	02 Jul 2025 19:06	YP\AJ	Ok
16	PB168701BS	FF016076.D	02 Jul 2025 19:36	YP\AJ	Ok
17	Q2458-01	FF016077.D	02 Jul 2025 20:06	YP\AJ	Ok
18	Q2458-02	FF016078.D	02 Jul 2025 20:35	YP\AJ	Dilution
19	Q2458-03	FF016079.D	02 Jul 2025 21:05	YP\AJ	Ok
20	Q2458-04	FF016080.D	02 Jul 2025 21:35	YP\AJ	Ok
21	Q2458-04MS	FF016081.D	02 Jul 2025 22:05	YP\AJ	Ok

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF070225

Review By	yogesh	Review On	7/2/2025 11:59:46 AM
Supervise By	mohammad	Supervise On	7/4/2025 4:31:52 AM
SubDirectory	FF070225	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		

22	Q2458-04MSD	FF016082.D	02 Jul 2025 22:35	YP\AJ	Ok,M
23	Q2458-05	FF016083.D	02 Jul 2025 23:05	YP\AJ	Dilution
24	Q2458-06	FF016084.D	02 Jul 2025 23:34	YP\AJ	Dilution
25	I.BLK	FF016085.D	03 Jul 2025 00:04	YP\AJ	Ok
26	50 PPM TRPH STD	FF016086.D	03 Jul 2025 00:34	YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF070325

Review By	yogesh	Review On	7/3/2025 11:59:55 AM
Supervise By	mohammad	Supervise On	7/8/2025 9:13:52 AM
SubDirectory	FF070325	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	FF016087.D	03 Jul 2025 08:09	YP\AJ	Ok
2	I.BLK	FF016088.D	03 Jul 2025 08:38	YP\AJ	Ok,M
3	50 PPM TRPH STD	FF016089.D	03 Jul 2025 09:08	YP\AJ	Ok
4	RT MARKER	FF016090.D	03 Jul 2025 09:38	YP\AJ	Ok
5	Q2458-02	FF016091.D	03 Jul 2025 10:11	YP\AJ	Ok
6	Q2458-05	FF016092.D	03 Jul 2025 10:47	YP\AJ	Ok,M
7	Q2458-06	FF016093.D	03 Jul 2025 11:17	YP\AJ	Ok,M
8	I.BLK	FF016094.D	03 Jul 2025 11:47	YP\AJ	Ok
9	50 PPM TRPH STD	FF016095.D	03 Jul 2025 12:17	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF070925

Review By	yogesh	Review On	7/9/2025 12:28:00 PM
Supervise By		Supervise On	
SubDirectory	FF070925	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	FF016115.D	09 Jul 2025 09:03	YP\AJ	Ok
2	I.BLK	FF016116.D	09 Jul 2025 09:32	YP\AJ	Ok
3	50 PPM TRPH STD	FF016117.D	09 Jul 2025 10:02	YP\AJ	Ok
4	RT MARKER	FF016118.D	09 Jul 2025 11:05	YP\AJ	Ok
5	Q2487-11	FF016119.D	09 Jul 2025 11:34	YP\AJ	Ok,NR
6	Q2487-13	FF016120.D	09 Jul 2025 12:04	YP\AJ	Ok,NR
7	Q2487-14	FF016121.D	09 Jul 2025 12:34	YP\AJ	Ok,NR
8	Q2487-15	FF016122.D	09 Jul 2025 13:04	YP\AJ	Ok
9	Q2487-16	FF016123.D	09 Jul 2025 13:34	YP\AJ	Ok,NR
10	PB168697BS	FF016124.D	09 Jul 2025 15:34	YP\AJ	Ok,NR
11	PB168697BSD	FF016125.D	09 Jul 2025 16:06	YP\AJ	Ok,NR
12	I.BLK	FF016126.D	09 Jul 2025 16:36	YP\AJ	Ok
13	50 PPM TRPH STD	FF016127.D	09 Jul 2025 17:06	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 # FG070225

Review By	yogesh	Review On	7/2/2025 12:00:36 PM
Supervise By	mohammad	Supervise On	7/8/2025 9:13:31 AM
SubDirectory	FG070225	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	FG016198.D	02 Jul 2025 10:48	YP\AJ	Ok
2	I.BLK	FG016199.D	02 Jul 2025 11:18	YP\AJ	Ok
3	50 PPM TRPH STD	FG016200.D	02 Jul 2025 11:53	YP\AJ	Ok
4	RT MARKER	FG016201.D	02 Jul 2025 12:24	YP\AJ	Ok
5	Q2458-07	FG016202.D	02 Jul 2025 16:06	YP\AJ	Ok
6	Q2458-08	FG016203.D	02 Jul 2025 16:36	YP\AJ	Ok
7	Q2458-09	FG016204.D	02 Jul 2025 17:06	YP\AJ	Ok
8	Q2484-01	FG016205.D	02 Jul 2025 17:36	YP\AJ	Dilution
9	Q2484-02	FG016206.D	02 Jul 2025 18:06	YP\AJ	Ok
10	I.BLK	FG016207.D	02 Jul 2025 18:36	YP\AJ	Ok
11	50 PPM TRPH STD	FG016208.D	02 Jul 2025 19:06	YP\AJ	Ok
12	Q2484-03	FG016209.D	02 Jul 2025 20:06	YP\AJ	Dilution
13	Q2484-04	FG016210.D	02 Jul 2025 20:35	YP\AJ	Ok,M
14	Q2484-05	FG016211.D	02 Jul 2025 21:05	YP\AJ	Ok
15	Q2484-06	FG016212.D	02 Jul 2025 21:35	YP\AJ	Ok
16	I.BLK	FG016213.D	02 Jul 2025 22:05	YP\AJ	Ok
17	50 PPM TRPH STD	FG016214.D	02 Jul 2025 22:35	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 # FF070225

Review By	yogesh	Review On	7/2/2025 11:59:46 AM
Supervise By	mohammad	Supervise On	7/4/2025 4:31:52 AM
SubDirectory	FF070225	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		FF016061.D	02 Jul 2025 10:48		YP\AJ	Ok
2	I.BLK		FF016062.D	02 Jul 2025 11:18		YP\AJ	Ok
3	50 PPM TRPH STD		FF016063.D	02 Jul 2025 11:53		YP\AJ	Ok
4	RT MARKER		FF016064.D	02 Jul 2025 12:24		YP\AJ	Ok
5	PB168697BL		FF016065.D	02 Jul 2025 13:33		YP\AJ	Ok
6	PB168697BS		FF016066.D	02 Jul 2025 14:03		YP\AJ	Not Ok
7	PB168697BSD		FF016067.D	02 Jul 2025 14:33		YP\AJ	Not Ok
8	Q2458-10		FF016068.D	02 Jul 2025 15:02		YP\AJ	Ok
9	IDOC1		FF016069.D	02 Jul 2025 15:36		YP\AJ	Ok
10	IDOC2		FF016070.D	02 Jul 2025 16:06		YP\AJ	Ok
11	IDOC3		FF016071.D	02 Jul 2025 16:36		YP\AJ	Ok
12	IDOC4		FF016072.D	02 Jul 2025 17:06		YP\AJ	Ok
13	I.BLK		FF016073.D	02 Jul 2025 17:36		YP\AJ	Ok
14	50 PPM TRPH STD		FF016074.D	02 Jul 2025 18:06		YP\AJ	Ok
15	PB168701BL		FF016075.D	02 Jul 2025 19:06		YP\AJ	Ok
16	PB168701BS		FF016076.D	02 Jul 2025 19:36		YP\AJ	Ok
17	Q2458-01		FF016077.D	02 Jul 2025 20:06		YP\AJ	Ok
18	Q2458-02		FF016078.D	02 Jul 2025 20:35	need 5x dilution	YP\AJ	Dilution

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF070225

Review By	yogesh	Review On	7/2/2025 11:59:46 AM
Supervise By	mohammad	Supervise On	7/4/2025 4:31:52 AM
SubDirectory	FF070225	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	PP24468,PP24473		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q2458-03		FF016079.D	02 Jul 2025 21:05		YP\AJ	Ok
20	Q2458-04		FF016080.D	02 Jul 2025 21:35		YP\AJ	Ok
21	Q2458-04MS		FF016081.D	02 Jul 2025 22:05		YP\AJ	Ok
22	Q2458-04MSD		FF016082.D	02 Jul 2025 22:35		YP\AJ	Ok,M
23	Q2458-05		FF016083.D	02 Jul 2025 23:05	need 2x dilution	YP\AJ	Dilution
24	Q2458-06		FF016084.D	02 Jul 2025 23:34	need 5x dilution	YP\AJ	Dilution
25	I.BLK		FF016085.D	03 Jul 2025 00:04		YP\AJ	Ok
26	50 PPM TRPH STD		FF016086.D	03 Jul 2025 00:34		YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF070325

Review By	yogesh	Review On	7/3/2025 11:59:55 AM
Supervise By	mohammad	Supervise On	7/8/2025 9:13:52 AM
SubDirectory	FF070325	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	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		FF016087.D	03 Jul 2025 08:09		YP\AJ	Ok
2	I.BLK		FF016088.D	03 Jul 2025 08:38		YP\AJ	Ok,M
3	50 PPM TRPH STD		FF016089.D	03 Jul 2025 09:08		YP\AJ	Ok
4	RT MARKER		FF016090.D	03 Jul 2025 09:38		YP\AJ	Ok
5	Q2458-02		FF016091.D	03 Jul 2025 10:11		YP\AJ	Ok
6	Q2458-05		FF016092.D	03 Jul 2025 10:47		YP\AJ	Ok,M
7	Q2458-06		FF016093.D	03 Jul 2025 11:17		YP\AJ	Ok,M
8	I.BLK		FF016094.D	03 Jul 2025 11:47		YP\AJ	Ok
9	50 PPM TRPH STD		FF016095.D	03 Jul 2025 12:17		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF070925

Review By	yogesh	Review On	7/9/2025 12:28:00 PM
Supervise By		Supervise On	
SubDirectory	FF070925	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		FF016115.D	09 Jul 2025 09:03		YPIAJ	Ok
2	I.BLK		FF016116.D	09 Jul 2025 09:32		YPIAJ	Ok
3	50 PPM TRPH STD		FF016117.D	09 Jul 2025 10:02		YPIAJ	Ok
4	RT MARKER		FF016118.D	09 Jul 2025 11:05		YPIAJ	Ok
5	Q2487-11		FF016119.D	09 Jul 2025 11:34		YPIAJ	Ok,NR
6	Q2487-13		FF016120.D	09 Jul 2025 12:04		YPIAJ	Ok,NR
7	Q2487-14		FF016121.D	09 Jul 2025 12:34		YPIAJ	Ok,NR
8	Q2487-15		FF016122.D	09 Jul 2025 13:04		YPIAJ	Ok
9	Q2487-16		FF016123.D	09 Jul 2025 13:34		YPIAJ	Ok,NR
10	PB168697BS		FF016124.D	09 Jul 2025 15:34		YPIAJ	Ok,NR
11	PB168697BSD		FF016125.D	09 Jul 2025 16:06		YPIAJ	Ok,NR
12	I.BLK		FF016126.D	09 Jul 2025 16:36		YPIAJ	Ok
13	50 PPM TRPH STD		FF016127.D	09 Jul 2025 17:06		YPIAJ	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 # FG070225

Review By	yogesh	Review On	7/2/2025 12:00:36 PM
Supervise By	mohammad	Supervise On	7/8/2025 9:13:31 AM
SubDirectory	FG070225	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			
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		FG016198.D	02 Jul 2025 10:48		YPIAJ	Ok
2	I.BLK		FG016199.D	02 Jul 2025 11:18		YPIAJ	Ok
3	50 PPM TRPH STD		FG016200.D	02 Jul 2025 11:53		YPIAJ	Ok
4	RT MARKER		FG016201.D	02 Jul 2025 12:24		YPIAJ	Ok
5	Q2458-07		FG016202.D	02 Jul 2025 16:06		YPIAJ	Ok
6	Q2458-08		FG016203.D	02 Jul 2025 16:36		YPIAJ	Ok
7	Q2458-09		FG016204.D	02 Jul 2025 17:06		YPIAJ	Ok
8	Q2484-01		FG016205.D	02 Jul 2025 17:36	need 5x dilution	YPIAJ	Dilution
9	Q2484-02		FG016206.D	02 Jul 2025 18:06		YPIAJ	Ok
10	I.BLK		FG016207.D	02 Jul 2025 18:36		YPIAJ	Ok
11	50 PPM TRPH STD		FG016208.D	02 Jul 2025 19:06		YPIAJ	Ok
12	Q2484-03		FG016209.D	02 Jul 2025 20:06	Need 10X	YPIAJ	Dilution
13	Q2484-04		FG016210.D	02 Jul 2025 20:35		YPIAJ	Ok,M
14	Q2484-05		FG016211.D	02 Jul 2025 21:05		YPIAJ	Ok
15	Q2484-06		FG016212.D	02 Jul 2025 21:35		YPIAJ	Ok
16	I.BLK		FG016213.D	02 Jul 2025 22:05		YPIAJ	Ok
17	50 PPM TRPH STD		FG016214.D	02 Jul 2025 22:35		YPIAJ	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/1/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 06/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 07/01/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136327

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
Q2451-01	Y2310-0409-1-1	1	1.00	1.00	2.00	2.00	100.0	PILC
Q2451-02	Y2310-0409-1-2	2	1.00	1.00	2.00	2.00	100.0	PILC
Q2451-03	Y2307-0279-1-1	3	1.00	1.00	2.00	2.00	100.0	PILC
Q2451-04	Y2307-0279-1-2	4	1.00	1.00	2.00	2.00	100.0	PILC
Q2451-05	KQA080Z-1-1	5	1.00	1.00	2.00	2.00	100.0	PILC
Q2451-06	KQA080Z-1-2	6	1.00	1.00	2.00	2.00	100.0	PILC
Q2451-07	HIA-925Q-1-1	7	1.00	1.00	2.00	2.00	100.0	PILC
Q2451-08	HIA-925Q-1-2	8	1.00	1.00	2.00	2.00	100.0	PILC
Q2458-01	TP-76	9	1.15	10.84	11.99	10.97	90.6	
Q2458-02	TP-55	10	1.18	10.49	11.67	10.77	91.4	
Q2458-03	TP-68	11	1.18	10.68	11.86	11.04	92.3	
Q2458-04	TP-67	12	1.19	10.16	11.35	10.3	89.7	
Q2458-05	TP-66	13	1.19	10.18	11.37	10.18	88.3	
Q2458-06	TP-60	14	1.15	10.83	11.98	11.17	92.5	
Q2458-07	TP-62	15	1.15	10.84	11.99	11.02	91.1	
Q2458-08	TP-63	16	1.19	10.82	12.01	10.54	86.4	
Q2458-09	TP-59	17	1.15	10.70	11.85	9.35	76.6	
Q2459-01	TP-1	18	1.19	10.74	11.93	10.66	88.2	
Q2459-02	TP-1-EPH	19	1.15	10.88	12.03	10.8	88.7	
Q2459-03	TP-1-VOC	20	1.16	10.83	11.99	10.9	89.9	
Q2459-04	TP-1	21	1.19	10.74	11.93	10.66	88.2	
Q2462-02	60425-A	22	1.15	10.31	11.46	9.96	85.5	
Q2462-03	60425-B	23	1.14	10.66	11.8	7.91	63.5	
Q2462-04	60425-AB	24	1.19	10.57	11.76	9.66	80.1	
Q2462-05	50725	25	1.00	1.00	2.00	2.00	100.0	debris
Q2462-06	61625-A	26	1.12	10.70	11.82	9.5	78.3	
Q2462-07	61625-B	27	1.18	10.37	11.55	8.29	68.6	
Q2462-08	61625-C	28	1.19	10.65	11.84	9.11	74.4	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/1/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 06/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 07/01/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136327

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
Q2462-09	61625-ABC	29	1.19	10.56	11.75	9.26	76.4	
Q2462-10	62725	30	1.00	1.00	2.00	2.00	100.0	debris
Q2464-01	OR-3-063025	31	1.12	10.76	11.88	11.57	97.1	
Q2464-02	OR-3-063025-E2	32	1.18	10.50	11.68	11.3	96.4	
Q2466-01	61825	33	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2466-02	62625	34	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2467-01	1A-1B-1C-Fire Stopher Caulk-Red	35	1.00	1.00	2.00	2.00	100.0	Caulk sample
Q2469-01	WC-1	36	1.15	10.13	11.28	9.8	85.4	
Q2469-02	WC-1-EPH	37	1.19	10.36	11.55	10.14	86.4	
Q2469-03	WC-1-VOC	38	1.15	10.84	11.99	10.74	88.5	
Q2469-04	WC-1	39	1.15	10.13	11.28	9.8	85.4	

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

WORKLIST(Hardcopy Internal Chain)

136327

WorkList Name : %1-063025

WorkList ID : 190450

Department : Wet-Chemistry

Date : 06-30-2025 08:06:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2451-01	Y2310-0409-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2451-02	Y2310-0409-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2451-03	Y2307-0279-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2451-04	Y2307-0279-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2451-05	KQA08OZ-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2451-06	KQA08OZ-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2451-07	HIA-925Q-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2451-08	HIA-925Q-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D51	06/27/2025	Chemtech -SO
Q2458-01	TP-76	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/26/2025	Chemtech -SO
Q2458-02	TP-55	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/27/2025	Chemtech -SO
Q2458-03	TP-68	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/27/2025	Chemtech -SO
Q2458-04	TP-67	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/27/2025	Chemtech -SO
Q2458-05	TP-66	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/27/2025	Chemtech -SO
Q2458-06	TP-60	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/27/2025	Chemtech -SO
Q2458-07	TP-62	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/27/2025	Chemtech -SO
Q2458-08	TP-63	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/27/2025	Chemtech -SO
Q2458-09	TP-59	Solid	Percent Solids	Cool 4 deg C	CAMP02	D51	06/27/2025	Chemtech -SO
Q2459-01	TP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	A51	06/28/2025	Chemtech -SO
Q2459-02	TP-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	A51	06/28/2025	Chemtech -SO
Q2459-03	TP-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A51	06/28/2025	Chemtech -SO
Q2459-04	TP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	A51	06/28/2025	Chemtech -SO

Date/Time 06/30/25 16:00

Raw Sample Received by: JWC

Raw Sample Relinquished by: JWC

Date/Time 06/30/25

Raw Sample Received by: JWC

Raw Sample Relinquished by: JWC

WORKLIST(Hardcopy Internal Chain)

130327

WorkList Name : %1-063025 WorkList ID : 190450 Department : Wet-Chemistry Date : 06-30-2025 08:06:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2462-02	60425-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2462-03	60425-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2462-04	60425-AB	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2462-05	50725	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2462-06	61625-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2462-07	61625-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2462-08	61625-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2462-09	60425-ABC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2462-10	62725	Solid	Percent Solids	Cool 4 deg C	PSEG03	A12	06/30/2025	Chemtech -SO
Q2464-01	OR-3-063025	Solid	Percent Solids	Cool 4 deg C	PSEG05	A21	06/30/2025	Chemtech -SO
Q2464-02	OR-3-063025	Solid	Percent Solids	Cool 4 deg C	PSEG05	A21	06/30/2025	Chemtech -SO
Q2466-01	61825	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/30/2025	Chemtech -SO
Q2466-02	62625	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/30/2025	Chemtech -SO
Q2467-01	1A-1B-1C-Fire Stopper Caulk-R	Solid	Percent Solids	Cool 4 deg C	ATCE02	A61	06/26/2025	Chemtech -SO
Q2469-01	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	06/30/2025	Chemtech -SO
Q2469-02	WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	06/30/2025	Chemtech -SO
Q2469-03	WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	06/30/2025	Chemtech -SO
Q2469-04	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	A61	06/30/2025	Chemtech -SO

06/30/25 16:00

Date/Time Raw Sample Received by: SP CSM Raw Sample Relinquished by: SP CSM

SOP ID:	M3510C,3580A-Extraction DRO-13		
Clean Up SOP #:	N/A	Extraction Start Date :	07/02/2025
Matrix :	Water	Extraction Start Time :	09:09
Weigh By:	N/A	Extraction By:	RS
Balance check:	N/A	Filter By:	RJ
Balance ID:	N/A	Extraction End Date :	07/02/2025
pH Strlp Lot#:	E3880	Extraction End Time :	13:25
		Concentration By:	EH
		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
Methylene Chloride	N/A	E3943
Baked Na2SO4	N/A	EP2624
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443.

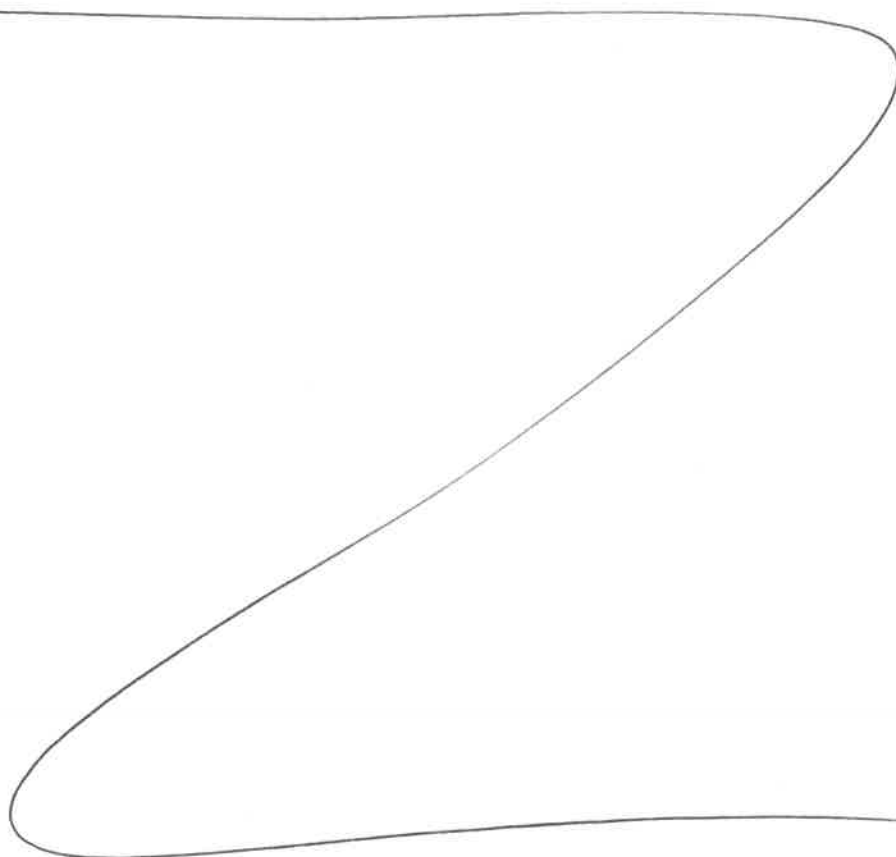
KD Bath ID:	WATER BATH-1	Envap ID:	NEVAP-02
KD Bath Temperature:	60 °C	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/2/25	RS (Ext Lab)	Y-p-pesti PRB
13:30	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction DRO-13

Concentration Date: 07/02/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168697BL	PB168697BL	Diesel Range Organics	1000	6	RUPESH	ritesh	1			SEP-8
PB168697BS	PB168697BS	Diesel Range Organics	1000	6	RUPESH	ritesh	1			9
PB168697BS D	PB168697BSD	Diesel Range Organics	1000	6	RUPESH	ritesh	1			10
Q2458-10	FB-06272025	Diesel Range Organics	970	6	RUPESH	ritesh	1	H		11
IDOC-01	For Analy Claudio		1000	6			1			12
IDOC-02			1000	6			1			13
IDOC-03			1000	6			1			14
IDOC-04			1000	6			1			15



Rs
7/2

19860-03

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2458D WorkList ID : 190507 Department : Extraction Date : 07-02-2025 09:05:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2458-01	TP-76	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/26/2025	8015D
Q2458-02	TP-55	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/26/2025	8015D
Q2458-03	TP-68	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/27/2025	8015D
Q2458-04	TP-67	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/27/2025	8015D
Q2458-05	TP-66	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/27/2025	8015D
Q2458-06	TP-60	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/27/2025	8015D
Q2458-07	TP-62	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/27/2025	8015D
Q2458-08	TP-63	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/27/2025	8015D
Q2458-09	TP-59	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/27/2025	8015D
Q2458-10	FB-06272025	Water	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/27/2025	8015D

Date/Time 7/2/25 9:06
Raw Sample Received by: RS (Ext-06)
Raw Sample Relinquished by: CP GR

Date/Time 7/2/25 9:30
Raw Sample Received by: CP GR
Raw Sample Relinquished by: RS (Ext-06)

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Extraction Start Date : 07/02/2025

Matrix : Solid

Extraction Start Time : 09:17

Wegh By: EH

Extraction By: RJ

Extraction End Date : 07/02/2025

Balance check: RJ

Filter By: RJ

Extraction End Time : 14:45

Balance ID: EX-SC-2

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: N/A

Hood ID: 3,7

Supervisor By : RUPESH

Extraction Method: ☐ Separatory Funnel

☐ Continious 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
Sand	N/A	E2865
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

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673, Q2484 All samples added in batch at 11:53 AM.

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
7/2/25 14:50	RJ (Ext Lab)	Y-P POST LAB.
	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 07/02/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168701BL	PB168701BL	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1			U2-1
PB168701BS	PB168701BS	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1			2
Q2458-01	TP-76	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	E		3
Q2458-02	TP-55	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1	E		4
Q2458-03	TP-68	Diesel Range Organics	30.08	N/A	ritesh	Evelyn	1	E		5
Q2458-04	TP-67	Diesel Range Organics	30.03	N/A	ritesh	Evelyn	1	E		6
Q2458-04MS	TP-67MS	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	E		U3-1
Q2458-04MS D	TP-67MSD	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1	E		2
Q2458-05	TP-66	Diesel Range Organics	30.09	N/A	ritesh	Evelyn	1	E		3
Q2458-06	TP-60	Diesel Range Organics	30.07	N/A	ritesh	Evelyn	1	E		4
Q2458-07	TP-62	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1	E		5
Q2458-08	TP-63	Diesel Range Organics	30.05	N/A	ritesh	Evelyn	1	E		6
Q2458-09	TP-59	Diesel Range Organics	30.04	N/A	ritesh	Evelyn	1	E		U6-1
Q2484-01	TP-58	Diesel Range Organics	30.01	N/A	ritesh	Evelyn	1	E		2
Q2484-02	TP-57	Diesel Range Organics	30.04	N/A	ritesh	Evelyn	1	E		3
Q2484-03	TP-64	Diesel Range Organics	30.07	N/A	ritesh	Evelyn	1	E		4
Q2484-04	TP-107	Diesel Range Organics	30.02	N/A	ritesh	Evelyn	1	E		5
Q2484-05	TP-1006	Diesel Range Organics	30.09	N/A	ritesh	Evelyn	1	E		6
Q2484-06	TP-104	Diesel Range Organics	30.06	N/A	ritesh	Evelyn	1	E		U1-1

* Extracts relinquished on the same date as received.

168391
17-5
9/17/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2458D WorkList ID : 190507 Department : Extraction Date : 07-02-2025 09:05:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2458-01	TP-76	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/26/2025	8015D
Q2458-02	TP-55	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/26/2025	8015D
Q2458-03	TP-68	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/27/2025	8015D
Q2458-04	TP-67	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/27/2025	8015D
Q2458-05	TP-66	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/27/2025	8015D
Q2458-06	TP-60	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/27/2025	8015D
Q2458-07	TP-62	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/27/2025	8015D
Q2458-08	TP-63	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/27/2025	8015D
Q2458-09	TP-59	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/27/2025	8015D
Q2458-10	FB-06272025	Water	Diesel Range Organics	Cool 4 deg C	CAMP02	D51	06/27/2025	8015D

Date/Time	7/2/25	9:12	Date/Time	7/2/25	9:35
Raw Sample Received by:	RJ (Ext Lab)		Raw Sample Received by:	CP SN	
Raw Sample Relinquished by:	CP SN		Raw Sample Relinquished by:	RJ (Ext Lab)	

(16739)
(2489)
(10:52)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2484D WorkList ID : 190510 Department : Extraction Date : 07-02-2025 10:52:02

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2484-01	TP-58	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	A12	07/01/2025	8015D
Q2484-02	TP-57	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	A12	07/01/2025	8015D
Q2484-03	TP-64	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	A12	07/01/2025	8015D
Q2484-04	TP-107	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	A12	07/01/2025	8015D
Q2484-05	TP-1006	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	A12	07/01/2025	8015D
Q2484-06	TP-104	Solid	Diesel Range Organics	Cool 4 deg C	CAMP02	A12	07/01/2025	8015D

Date/Time 7/2/25 10:52
Raw Sample Received by: RJ (Ext 106)
Raw Sample Relinquished by: CP Sin

Date/Time 7/2/25 11:00
Raw Sample Received by: CP Sin
Raw Sample Relinquished by: RJ (Ext 106)



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: **MARCIE ENCINAS**
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 _____

TCL VOC
TCL NVOC
PCB'S
TAL METALS
PESTICIDES
HERBICIDES
DRO/GRO

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	TP-70	S		X	6/26/25	1115	6	X	X	X	X	X	X	X			E
2.	TP-65	S		X	6/26/25	1200	6	X	X	X	X	X	X	X			E
3.	TP-68	S		X	6/27/25	0745	6	X	X	X	X	X	X	X			E
4.	TP-67	S		X	6/27/25	0805	6	X	X	X	X	X	X	X			E
5.	TP-66	S		X	6/27/25	0835	6	X	X	X	X	X	X	X			E
6.	TP-60	S		X	6/27/25	0910	6	X	X	X	X	X	X	X			E
7.	TP-62	S		X	6/27/25	1005	6	X	X	X	X	X	X	X			E
8.	TP-63	S		X	6/27/25	1055	6	X	X	X	X	X	X	X			E
9.	TP-54	S		X	6/27/25	1205	6	X	X	X	X	X	X	X			E
10.	FB-06272025	BAR		X	6/27/25	1300	9	X	X	X	X	X	X	X			E, A, B

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP _____ °C
1. <i>[Signature]</i>	6/27/25/1600	<i>[Signature]</i> 1600	Comments: _____
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2.	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3. <i>[Signature]</i>	6-27-25	3.	

Page _____ of _____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

From: Encinas, Marcie (Puskarik) <encinasma@cdmsmith.com>
Sent: Monday, June 30, 2025 12:44 PM
Subject: FW: sample id and sample not mentioned on COC

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Thank you for reaching out - Please see below.

Would it be possible to also have excel results emailed with results compared to the current NJDEP SRS?

Marcie

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Monday, June 30, 2025 10:24 AM
To: Encinas, Marcie (Puskarik) <encinasma@cdmsmith.com>
Cc: Mohammad Ahmed <mohammad.ahmed@alliancetg.com>; Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Subject: sample id and sample not mentioned on COC

You don't often get email from deepak.parmar@alliancetg.com. [Learn why this is important](#)

Good morning,

Samples received with 6/27/2025 shipment has below discrepancies

issue 1# sample (2) TP-65 mentioned on COC, however sample received as TP-55 let us know which sample ID to use ? **TP-55 is the correct label for the samples.**

Issue2# Lab receives two TB water samples but not mentioned on COC. Lab would like to know how to proceed with analysis ? **I believe those are temperature blanks, which do not require analysis. We are only analyzing trip blanks if the same also includes aqueous samples.**

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900

Address: 284 Sheffield St, Ste 1,
Mountainside, NJ 07092



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 : Q2458 CAMP02

Order Date : 6/27/2025 4:22:00 PM

Project Mgr :

Client Name : CDM Smith

Project Name : South River WM Replacem

Report Type : Level 2 *all*

Client Contact : Marcie Ann Encinas

Receive DateTime : 6/27/2025 ~~12:00:00 AM~~ *10:55 PM* *all*

EDD Type : EXCEL NOCLEANUP

Invoice Name : CDM Smith

Purchase Order :

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
Q2458-01	TP-76	Solid	06/26/2025	11:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2458-02	TP- 65 <i>55 all</i>	Solid	06/26/2025	12:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2458-03	TP-68	Solid	06/27/2025	07: <i>45</i>					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2458-04	TP-67	Solid	06/27/2025	08:05					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2458-05	TP-66	Solid	06/27/2025	08:35					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2458-06	TP-60	Solid	06/27/2025	09:10					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2458-07	TP-62	Solid	06/27/2025	10:05					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2458-08	TP-63	Solid	06/27/2025	10:55					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2458	CAMP02	Order Date : 6/27/2025 4:22:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level 2 <i>add</i>
Client Contact : Marcie Ann Encinas		Receive DateTime : 6/27/2025 12:00:00 AM <i>16:55 PM</i>	EDD Type : EXCEL NOCLEANUP
Invoice Name : CDM Smith		Purchase Order :	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
Q2458-09	TP-59	Solid	06/27/2025	12:05	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2458-10	FB-06272025	Water	06/27/2025	13:00	VOC-TCLVOA-10		8260D	10 Bus. Days	
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	

Relinquished By : *[Signature]*

Date / Time : 6/30/25 0900

Received By : *[Signature]*

Date / Time : 6/30/25 9:00

Storage Area : VOA Refridgerator Room

SAMPLES RECEIVED ON 6/27/25 @ 1655
SAMPLES PLACED IN SM-REF-2

Ref #6
#2-2
Ref #4