

Cover Page

Order ID : P4663

Project ID : Rt. 10 Whippany

Client : Union Paving & Construction Company

Lab Sample Number

P4663-01
P4663-02
P4663-03
P4663-04
P4663-05
P4663-06
P4663-07
P4663-08

Client Sample Number

TENNANT-PAD-2-3-STOCKPILE
TENNANT-PAD-2-3-STOCKPILE
RES-BUILDING-PAD-NO-11
RES-BUILDING-PAD-NO-11
RES-BUILDING-PAD-NO-3
RES-BUILDING-PAD-NO-3
RES-BUILDING-PAD-NO-3
RES-BUILDING-PAD-NO-2
RES-BUILDING-PAD-NO-2

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: 11/9/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “Results Qualifiers” are used:

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4663

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: PATEL VAISHALI

Date: 11/09/2024

LAB CHRONICLE

OrderID:	P4663	OrderDate:	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	Project:	Rt. 10 Whippany
Contact:	Gregory Butler	Location:	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-02	TENNANT-PAD-2-3-ST OCKPILE	SOIL			10/31/24			10/31/24
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-04	RES-BUILDING-PAD-N O-11	SOIL			10/31/24			10/31/24
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-06	RES-BUILDING-PAD-N O-3	SOIL			10/31/24			10/31/24
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-08	RES-BUILDING-PAD-N O-2	SOIL			10/31/24			10/31/24
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	



QC SUMMARY

SOIL TPH GC SURROGATE RECOVERY

Lab Name: Chemtech Client: Union Paving & Construction Company
Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FG014617.D	89				0
PIBLK-FG014625.D	88				0
PIBLK-FG014631.D	97				0
TENNANT-PAD-2-3-STOCKPILE	54				0
RES-BUILDING-PAD-NO-11	67				0
RES-BUILDING-PAD-NO-3	67				0
RES-BUILDING-PAD-NO-2	75				0
RES-BUILDING-PAD-NO-2MS	62				0
RES-BUILDING-PAD-NO-2MSD	59				0
PB164602BL	80				0
PB164602BS	82				0

QC LIMITS

TETRACOSANE-d50

For Water : 29-130
For Soil : 37-130

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

SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Union Paving & Construction Company
Lab Code: CHEM **Cas No:** P4663 **SAS No :** P4663 **SDG No:** P4663
Client SampleID : RES-BUILDING-PAD-NO-2MS **Datafile:** FG014629.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	12380	19700	19368	-3%	*	68-131

SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Union Paving & Construction Company
Lab Code: CHEM **Cas No:** P4663 **SAS No :** P4663 **SDG No:** P4663
Client SampleID : RES-BUILDING-PAD-NO-2MSD **Datafile:** FG014630.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	12372	19700	19172	-4%	*	68-131

MS/MSD % Recovery RPD : 47.1

SOIL TPH GC LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Union Paving & Construction Company
Lab Code: CHEM **Cas No:** P4663 **SAS No :** P4663 **SDG No:** P4663
Matrix Spike - EPA Sample No : PB164602BS **Datafile:** FG014628.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
Petroleum Hydrocarbons	11322	0	10349	91	68-131

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164602BL

Lab Name: CHEMTECH

Contract: UNIO02

Lab Code: CHEM Case No.: P4663

SAS No.: P4663 SDG NO.: P4663

Lab File ID: FG014627.D

Lab Sample ID: PB164602BL

Instrument ID: FG

Date Extracted: 11/01/2024

Matrix: (soil/water) Soil

Date Analyzed: 11/01/24

Level: (low/med) low

Time Analyzed: 18:31

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TENNANT-PAD-2-3-STOCKPILE	P4663-02	FG014621.D	11/01/24
RES-BUILDING-PAD-NO-11	P4663-04	FG014622.D	11/01/24
RES-BUILDING-PAD-NO-3	P4663-06	FG014623.D	11/01/24
RES-BUILDING-PAD-NO-2	P4663-08	FG014624.D	11/01/24
PB164602BS	PB164602BS	FG014628.D	11/01/24
RES-BUILDING-PAD-NO-2MS	P4663-08MS	FG014629.D	11/01/24
RES-BUILDING-PAD-NO-2MSD	P4663-08MSD	FG014630.D	11/01/24

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	90.9
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TPH GC
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014621.D	1	11/01/24 11:35	11/01/24 14:43	PB164602

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	43100		349	3110	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	10.7		37 - 130	54%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014621.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 14:43
Operator : YP\AJ
Sample : P4663-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Integration File: autoint1.e
Quant Time: Nov 04 01:30:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.049	1280647	10.707 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

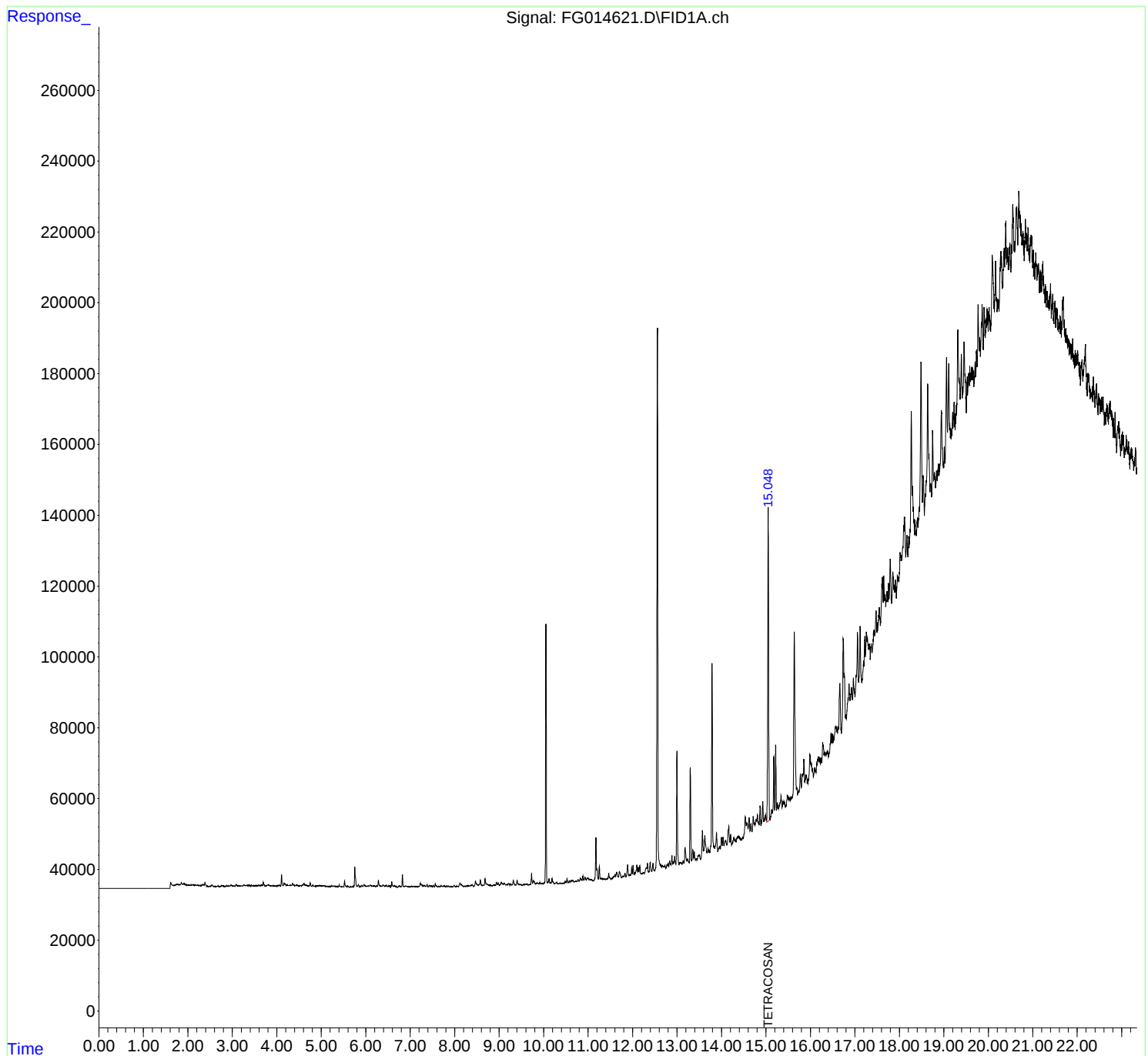
(m)=manual int.

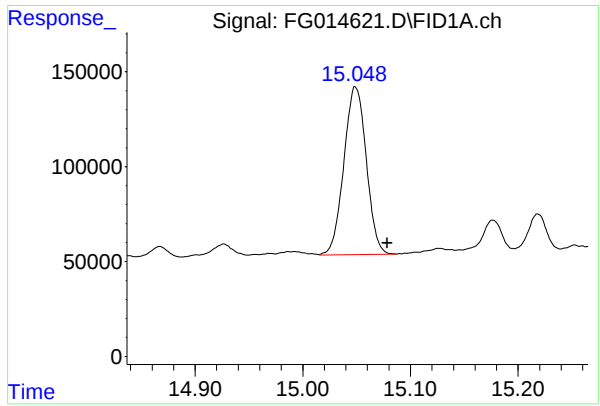
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014621.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 14:43
Operator : YP\AJ
Sample : P4663-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Integration File: autoint1.e
Quant Time: Nov 04 01:30:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.049 min
Delta R.T.: -0.030 min
Response: 1280647
Conc: 10.71 ug/ml

Instrument :
FID_G
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
 Data File : FG014621.D
 Signal(s) : FID1A.ch
 Acq On : 01 Nov 2024 14:43
 Sample : P4663-02
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.914	1.900	1.958	BV	221	2217	0.07%	0.001%
2	1.968	1.958	2.008	PV	123	1962	0.07%	0.001%
3	2.011	2.008	2.016	VV	71	161	0.01%	0.000%
4	2.020	2.016	2.030	PV	55	279	0.01%	0.000%
5	2.050	2.030	2.058	VV	92	804	0.03%	0.001%
6	2.074	2.058	2.080	VV	230	2254	0.07%	0.002%
7	2.095	2.080	2.098	VV	291	2537	0.08%	0.002%
8	2.104	2.098	2.116	VV	300	2748	0.09%	0.002%
9	2.120	2.116	2.130	VV	289	2162	0.07%	0.001%
10	2.134	2.130	2.168	VV	286	5265	0.18%	0.004%
11	2.173	2.168	2.203	VV	259	4309	0.14%	0.003%
12	2.210	2.203	2.252	VV	249	5183	0.17%	0.003%
13	2.272	2.252	2.278	VV	260	3008	0.10%	0.002%
14	2.282	2.278	2.298	VV	201	2202	0.07%	0.001%
15	2.303	2.298	2.308	VV	260	1170	0.04%	0.001%
16	2.325	2.308	2.339	VV	507	7164	0.24%	0.005%
17	2.346	2.339	2.351	VV	467	3024	0.10%	0.002%
18	2.354	2.351	2.371	VV	470	5138	0.17%	0.003%
19	2.383	2.371	2.430	VV	1075	16716	0.56%	0.011%
20	2.437	2.430	2.441	VV	102	373	0.01%	0.000%
21	2.445	2.441	2.474	VV	96	725	0.02%	0.000%
22	2.481	2.474	2.485	PV	98	270	0.01%	0.000%
23	2.490	2.485	2.503	VV	123	659	0.02%	0.000%
24	2.508	2.503	2.514	VV	95	382	0.01%	0.000%
25	2.539	2.514	2.562	VV	536	7522	0.25%	0.005%
26	2.567	2.562	2.585	VV	156	1603	0.05%	0.001%
27	2.589	2.585	2.597	VV	108	564	0.02%	0.000%
28	2.609	2.597	2.619	VV	124	901	0.03%	0.001%
29	2.636	2.619	2.641	VV	100	844	0.03%	0.001%
30	2.657	2.641	2.662	VV	178	1780	0.06%	0.001%
31	2.673	2.662	2.677	VV	157	1147	0.04%	0.001%
32	2.681	2.677	2.688	VV	204	858	0.03%	0.001%
33	2.691	2.688	2.706	VV	120	913	0.03%	0.001%
34	2.710	2.706	2.714	VV	98	241	0.01%	0.000%
35	2.726	2.714	2.732	PV	82	548	0.02%	0.000%
36	2.773	2.732	2.781	VV	336	6718	0.22%	0.004%

					rt	er		
37	2.785	2.781	2.808	VV	287	3580	0.12%	0.002%
38	2.813	2.808	2.820	VV	214	1174	0.04%	0.001%
39	2.832	2.820	2.846	VV	184	2121	0.07%	0.001%
40	2.871	2.846	2.883	VV	393	5218	0.17%	0.003%
41	2.887	2.883	2.915	VV	274	4165	0.14%	0.003%
42	2.918	2.915	2.924	VV	208	889	0.03%	0.001%
43	2.931	2.924	2.936	VV	197	1269	0.04%	0.001%
44	2.970	2.936	3.013	VV	615	17594	0.59%	0.012%
45	3.022	3.013	3.059	VV	349	6841	0.23%	0.005%
46	3.079	3.059	3.112	VV	686	13443	0.45%	0.009%
47	3.117	3.112	3.130	VV	360	3308	0.11%	0.002%
48	3.135	3.130	3.143	VV	324	2212	0.07%	0.001%
49	3.147	3.143	3.158	VV	305	2471	0.08%	0.002%
50	3.169	3.158	3.173	VV	256	2124	0.07%	0.001%
51	3.181	3.173	3.190	VV	336	3163	0.11%	0.002%
52	3.197	3.190	3.233	VV	352	7395	0.25%	0.005%
53	3.254	3.233	3.270	VV	621	10250	0.34%	0.007%
54	3.272	3.270	3.311	VV	489	9618	0.32%	0.006%
55	3.334	3.311	3.347	VV	454	8219	0.27%	0.005%
56	3.351	3.347	3.358	VV	391	2152	0.07%	0.001%
57	3.373	3.358	3.393	VV	465	8281	0.28%	0.006%
58	3.397	3.393	3.411	VV	376	3415	0.11%	0.002%
59	3.414	3.411	3.421	VV	365	1954	0.07%	0.001%
60	3.424	3.421	3.431	VV	364	1919	0.06%	0.001%
61	3.447	3.431	3.472	VV	390	8584	0.29%	0.006%
62	3.475	3.472	3.485	VV	411	2716	0.09%	0.002%
63	3.491	3.485	3.506	VV	354	3941	0.13%	0.003%
64	3.526	3.506	3.539	VV	384	6816	0.23%	0.005%
65	3.544	3.539	3.557	VV	403	3582	0.12%	0.002%
66	3.573	3.557	3.581	VV	424	5509	0.18%	0.004%
67	3.594	3.581	3.603	VV	468	5527	0.18%	0.004%
68	3.612	3.603	3.630	VV	408	6327	0.21%	0.004%
69	3.647	3.630	3.659	VV	460	6996	0.23%	0.005%
70	3.676	3.659	3.680	VV	495	5044	0.17%	0.003%
71	3.698	3.680	3.749	VV	1313	26510	0.88%	0.018%
72	3.753	3.749	3.757	VV	328	1452	0.05%	0.001%
73	3.772	3.757	3.776	VV	393	3875	0.13%	0.003%
74	3.795	3.776	3.828	VV	571	15214	0.51%	0.010%
75	3.831	3.828	3.869	VV	485	9344	0.31%	0.006%
76	3.875	3.869	3.896	VV	351	4932	0.16%	0.003%
77	3.915	3.896	3.934	VV	421	7606	0.25%	0.005%
78	3.939	3.934	3.942	VV	358	1563	0.05%	0.001%
79	3.952	3.942	3.992	VV	364	8690	0.29%	0.006%
80	4.012	3.992	4.026	VV	391	6310	0.21%	0.004%
81	4.041	4.026	4.061	VV	513	8939	0.30%	0.006%
82	4.064	4.061	4.078	VV	433	3858	0.13%	0.003%
83	4.107	4.078	4.142	VV	3482	44369	1.48%	0.030%
84	4.165	4.142	4.177	VV	1128	15718	0.52%	0.010%
85	4.181	4.177	4.212	VV	826	14269	0.47%	0.010%
86	4.231	4.212	4.255	VV	714	14069	0.47%	0.009%
87	4.263	4.255	4.273	VV	460	4819	0.16%	0.003%
88	4.283	4.273	4.292	VV	525	5529	0.18%	0.004%
89	4.299	4.292	4.306	VV	502	3893	0.13%	0.003%

					rteres			
90	4.322	4.306	4.335	VV	516	8399	0.28%	0.006%
91	4.357	4.335	4.386	VV	1094	21504	0.72%	0.014%
92	4.390	4.386	4.416	VV	583	8497	0.28%	0.006%
93	4.420	4.416	4.425	VV	436	2181	0.07%	0.001%
94	4.445	4.425	4.464	VV	697	12545	0.42%	0.008%
95	4.468	4.464	4.479	VV	460	4015	0.13%	0.003%
96	4.483	4.479	4.488	VV	363	1856	0.06%	0.001%
97	4.492	4.488	4.497	VV	386	1807	0.06%	0.001%
98	4.505	4.497	4.512	VV	390	2953	0.10%	0.002%
99	4.537	4.512	4.551	VV	441	9168	0.31%	0.006%
100	4.556	4.551	4.563	VV	367	2373	0.08%	0.002%
101	4.580	4.563	4.596	VV	759	11569	0.38%	0.008%
102	4.608	4.596	4.648	VV	985	21689	0.72%	0.014%
103	4.658	4.648	4.697	VV	602	13464	0.45%	0.009%
104	4.708	4.697	4.729	VV	391	6565	0.22%	0.004%
105	4.752	4.729	4.773	VV	1213	17429	0.58%	0.012%
106	4.779	4.773	4.784	VV	260	1714	0.06%	0.001%
107	4.807	4.784	4.860	VV	518	14969	0.50%	0.010%
108	4.864	4.860	4.876	VV	296	2549	0.08%	0.002%
109	4.905	4.876	4.927	VV	463	10384	0.35%	0.007%
110	4.961	4.927	4.980	VV	483	11769	0.39%	0.008%
111	4.993	4.980	5.012	VV	439	7265	0.24%	0.005%
112	5.031	5.012	5.049	VV	400	7714	0.26%	0.005%
113	5.067	5.049	5.088	VV	468	8788	0.29%	0.006%
114	5.093	5.088	5.104	VV	331	2573	0.09%	0.002%
115	5.110	5.104	5.121	VV	289	2437	0.08%	0.002%
116	5.140	5.121	5.164	VV	292	5952	0.20%	0.004%
117	5.184	5.164	5.191	VV	202	2477	0.08%	0.002%
118	5.198	5.191	5.208	VV	251	1940	0.06%	0.001%
119	5.242	5.208	5.263	VV	401	8705	0.29%	0.006%
120	5.281	5.263	5.310	VV	432	7942	0.26%	0.005%
121	5.328	5.310	5.348	VV	245	4534	0.15%	0.003%
122	5.356	5.348	5.372	VV	187	2122	0.07%	0.001%
123	5.403	5.372	5.453	VV	626	11760	0.39%	0.008%
124	5.459	5.453	5.476	VV	224	2103	0.07%	0.001%
125	5.482	5.476	5.506	VV	158	2308	0.08%	0.002%
126	5.524	5.506	5.551	VV	1705	20552	0.68%	0.014%
127	5.563	5.551	5.583	VV	311	4391	0.15%	0.003%
128	5.599	5.583	5.638	VV	335	5579	0.19%	0.004%
129	5.642	5.638	5.654	VV	86	250	0.01%	0.000%
130	5.674	5.654	5.682	PV	144	1350	0.04%	0.001%
131	5.686	5.682	5.702	VV	102	793	0.03%	0.001%
132	5.717	5.702	5.724	VV	286	2501	0.08%	0.002%
133	5.728	5.724	5.732	VV	242	1097	0.04%	0.001%
134	5.755	5.732	5.810	VV	5745	82546	2.75%	0.055%
135	5.833	5.810	5.872	VV	721	13744	0.46%	0.009%
136	5.911	5.872	5.937	VV	553	11646	0.39%	0.008%
137	5.961	5.937	5.979	VV	734	11472	0.38%	0.008%
138	5.985	5.979	6.018	VV	462	7468	0.25%	0.005%
139	6.029	6.018	6.043	VV	342	4114	0.14%	0.003%
140	6.057	6.043	6.075	VV	472	6442	0.21%	0.004%
141	6.104	6.075	6.128	VV	655	13633	0.45%	0.009%

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142	6.130	6.128	6.145	VV	331	3242	0.11%	0.002%
143	6.160	6.145	6.178	VV	399	6667	0.22%	0.004%
144	6.200	6.178	6.219	VV	419	7236	0.24%	0.005%
145	6.235	6.219	6.240	VV	254	2474	0.08%	0.002%
146	6.252	6.240	6.268	VV	347	4927	0.16%	0.003%
147	6.286	6.268	6.336	VV	2003	31703	1.05%	0.021%
148	6.347	6.336	6.357	VV	360	3736	0.12%	0.002%
149	6.363	6.357	6.369	VV	296	1850	0.06%	0.001%
150	6.388	6.369	6.422	VV	702	14096	0.47%	0.009%
151	6.441	6.422	6.454	VV	468	6809	0.23%	0.005%
152	6.465	6.454	6.492	VV	637	8807	0.29%	0.006%
153	6.523	6.492	6.543	VV	395	8966	0.30%	0.006%
154	6.546	6.543	6.563	VV	284	2436	0.08%	0.002%
155	6.587	6.563	6.623	VV	1530	21978	0.73%	0.015%
156	6.635	6.623	6.658	VV	397	6392	0.21%	0.004%
157	6.662	6.658	6.669	VV	222	1393	0.05%	0.001%
158	6.681	6.669	6.710	VV	221	3458	0.12%	0.002%
159	6.715	6.710	6.725	VV	79	486	0.02%	0.000%
160	6.748	6.725	6.760	VV	388	4727	0.16%	0.003%
161	6.767	6.760	6.779	VV	349	2984	0.10%	0.002%
162	6.795	6.779	6.805	VV	229	2833	0.09%	0.002%
163	6.827	6.805	6.853	VV	3562	35818	1.19%	0.024%
164	6.856	6.853	6.870	VV	207	1618	0.05%	0.001%
165	6.880	6.870	6.886	VV	262	2162	0.07%	0.001%
166	6.902	6.886	6.930	VV	417	6980	0.23%	0.005%
167	6.933	6.930	6.945	VV	239	1746	0.06%	0.001%
168	6.946	6.945	6.962	VV	205	1314	0.04%	0.001%
169	6.977	6.962	6.992	VV	109	1034	0.03%	0.001%
170	7.013	6.992	7.018	PV	192	1993	0.07%	0.001%
171	7.032	7.018	7.052	VV	339	4492	0.15%	0.003%
172	7.072	7.052	7.084	VV	277	3754	0.12%	0.003%
173	7.097	7.084	7.103	VV	178	1612	0.05%	0.001%
174	7.107	7.103	7.117	VV	176	1128	0.04%	0.001%
175	7.128	7.117	7.150	VV	193	3122	0.10%	0.002%
176	7.154	7.150	7.172	VV	188	1764	0.06%	0.001%
177	7.194	7.172	7.204	VV	207	2974	0.10%	0.002%
178	7.227	7.204	7.242	VV	1055	14535	0.48%	0.010%
179	7.252	7.242	7.272	VV	830	11136	0.37%	0.007%
180	7.280	7.272	7.301	VV	498	6872	0.23%	0.005%
181	7.305	7.301	7.311	VV	351	1946	0.06%	0.001%
182	7.326	7.311	7.356	VV	445	8400	0.28%	0.006%
183	7.380	7.356	7.413	VV	791	12653	0.42%	0.008%
184	7.432	7.413	7.456	VV	547	8941	0.30%	0.006%
185	7.470	7.456	7.505	VV	429	6907	0.23%	0.005%
186	7.519	7.505	7.545	VV	556	6756	0.22%	0.005%
187	7.564	7.545	7.584	VV	980	11945	0.40%	0.008%
188	7.592	7.584	7.625	VV	404	4959	0.17%	0.003%
189	7.643	7.625	7.668	PV	310	4104	0.14%	0.003%
190	7.696	7.668	7.714	VV	547	8254	0.27%	0.006%
191	7.720	7.714	7.744	VV	256	3497	0.12%	0.002%
192	7.763	7.744	7.793	VV	348	6690	0.22%	0.004%
193	7.819	7.793	7.854	VV	353	8112	0.27%	0.005%
194	7.861	7.854	7.872	VV	233	2407	0.08%	0.002%

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195	7.877	7.872	7.897	VV	237	1679	0.06%	0.001%
196	7.901	7.897	7.905	VV	86	244	0.01%	0.000%
197	7.922	7.905	7.946	VV	220	2680	0.09%	0.002%
198	7.950	7.946	7.963	VV	114	505	0.02%	0.000%
199	7.987	7.963	8.024	PV	486	7308	0.24%	0.005%
200	8.041	8.024	8.059	VV	252	3222	0.11%	0.002%
201	8.065	8.059	8.091	VV	219	2527	0.08%	0.002%
202	8.122	8.091	8.141	VV	1092	20787	0.69%	0.014%
203	8.154	8.141	8.171	VV	722	9283	0.31%	0.006%
204	8.181	8.171	8.208	VV	310	4148	0.14%	0.003%
205	8.230	8.208	8.251	VV	276	3732	0.12%	0.002%
206	8.277	8.251	8.292	PV	278	4274	0.14%	0.003%
207	8.302	8.292	8.307	VV	277	2259	0.08%	0.002%
208	8.312	8.307	8.318	VV	247	1389	0.05%	0.001%
209	8.323	8.318	8.335	VV	235	1633	0.05%	0.001%
210	8.354	8.335	8.366	VV	362	4678	0.16%	0.003%
211	8.397	8.366	8.427	VV	565	12157	0.40%	0.008%
212	8.470	8.427	8.488	VV	1590	25263	0.84%	0.017%
213	8.496	8.488	8.513	VV	800	9232	0.31%	0.006%
214	8.525	8.513	8.537	VV	478	5981	0.20%	0.004%
215	8.556	8.537	8.562	VV	669	7875	0.26%	0.005%
216	8.580	8.562	8.614	VV	1788	27491	0.91%	0.018%
217	8.618	8.614	8.622	VV	301	1231	0.04%	0.001%
218	8.645	8.622	8.661	VV	386	7140	0.24%	0.005%
219	8.685	8.661	8.712	VV	2216	33442	1.11%	0.022%
220	8.720	8.712	8.726	VV	622	5026	0.17%	0.003%
221	8.735	8.726	8.767	VV	651	11451	0.38%	0.008%
222	8.775	8.767	8.791	VV	428	4166	0.14%	0.003%
223	8.796	8.791	8.834	VV	549	5817	0.19%	0.004%
224	8.840	8.834	8.844	VV	130	617	0.02%	0.000%
225	8.853	8.844	8.858	VV	171	1290	0.04%	0.001%
226	8.871	8.858	8.901	VV	365	6628	0.22%	0.004%
227	8.910	8.901	8.915	VV	311	2398	0.08%	0.002%
228	8.919	8.915	8.922	VV	343	1391	0.05%	0.001%
229	8.942	8.922	8.966	VV	1120	17132	0.57%	0.011%
230	8.981	8.966	9.002	VV	949	12612	0.42%	0.008%
231	9.051	9.002	9.071	VV	1147	26018	0.87%	0.017%
232	9.077	9.071	9.095	VV	711	8407	0.28%	0.006%
233	9.120	9.095	9.159	VV	790	18838	0.63%	0.013%
234	9.174	9.159	9.192	VV	384	6310	0.21%	0.004%
235	9.207	9.192	9.220	VV	657	8694	0.29%	0.006%
236	9.229	9.220	9.245	VV	496	5532	0.18%	0.004%
237	9.257	9.245	9.285	VV	550	8309	0.28%	0.006%
238	9.321	9.285	9.363	VV	1544	29585	0.98%	0.020%
239	9.406	9.363	9.424	VV	1510	22200	0.74%	0.015%
240	9.434	9.424	9.449	VV	571	6722	0.22%	0.004%
241	9.453	9.449	9.462	VV	331	2283	0.08%	0.002%
242	9.467	9.462	9.477	VV	285	2202	0.07%	0.001%
243	9.494	9.477	9.525	VV	330	5167	0.17%	0.003%
244	9.551	9.525	9.570	PV	428	5980	0.20%	0.004%
245	9.583	9.570	9.594	VV	379	4168	0.14%	0.003%
246	9.606	9.594	9.623	VV	406	5519	0.18%	0.004%

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247	9.634	9.623	9.665	VV	471	6047	0.20%	0.004%
248	9.670	9.665	9.676	VV	129	662	0.02%	0.000%
249	9.693	9.676	9.707	VV	317	4017	0.13%	0.003%
250	9.730	9.707	9.757	VV	3282	42364	1.41%	0.028%
251	9.772	9.757	9.814	VV	1376	28725	0.96%	0.019%
252	9.823	9.814	9.838	VV	417	5278	0.18%	0.004%
253	9.854	9.838	9.899	VV	662	16220	0.54%	0.011%
254	9.919	9.899	9.937	VV	668	10133	0.34%	0.007%
255	9.974	9.937	9.996	VV	414	10758	0.36%	0.007%
256	10.053	9.996	10.084	VV	73649	776435	25.84%	0.519%
257	10.124	10.084	10.142	VV	1669	30675	1.02%	0.020%
258	10.161	10.142	10.172	VV	495	8162	0.27%	0.005%
259	10.191	10.172	10.250	VV	1680	31931	1.06%	0.021%
260	10.269	10.250	10.276	VV	375	4317	0.14%	0.003%
261	10.294	10.276	10.321	VV	605	8814	0.29%	0.006%
262	10.325	10.321	10.338	VV	126	601	0.02%	0.000%
263	10.360	10.338	10.385	PV	270	4545	0.15%	0.003%
264	10.399	10.385	10.417	VV	273	3142	0.10%	0.002%
265	10.434	10.417	10.444	PV	175	1745	0.06%	0.001%
266	10.485	10.444	10.502	VV	699	10413	0.35%	0.007%
267	10.528	10.502	10.556	VV	1334	19263	0.64%	0.013%
268	10.577	10.556	10.596	VV	652	9359	0.31%	0.006%
269	10.617	10.596	10.621	VV	691	7822	0.26%	0.005%
270	10.630	10.621	10.643	VV	772	8948	0.30%	0.006%
271	10.656	10.643	10.683	VV	756	12821	0.43%	0.009%
272	10.710	10.683	10.713	VV	393	5965	0.20%	0.004%
273	10.717	10.713	10.721	VV	398	1664	0.06%	0.001%
274	10.727	10.721	10.757	VV	413	6972	0.23%	0.005%
275	10.773	10.757	10.800	VV	872	13419	0.45%	0.009%
276	10.829	10.800	10.851	VV	1135	22281	0.74%	0.015%
277	10.855	10.851	10.865	VV	636	5167	0.17%	0.003%
278	10.883	10.865	10.900	VV	1697	21636	0.72%	0.014%
279	10.930	10.900	10.962	VV	1318	29740	0.99%	0.020%
280	10.985	10.962	10.990	VV	988	12406	0.41%	0.008%
281	11.003	10.990	11.019	VV	969	14230	0.47%	0.010%
282	11.029	11.019	11.042	VV	643	7749	0.26%	0.005%
283	11.048	11.042	11.053	VV	514	3190	0.11%	0.002%
284	11.057	11.053	11.085	VV	513	8028	0.27%	0.005%
285	11.096	11.085	11.111	VV	304	3414	0.11%	0.002%
286	11.178	11.111	11.195	VV	12226	148540	4.94%	0.099%
287	11.201	11.195	11.232	VV	3300	39331	1.31%	0.026%
288	11.253	11.232	11.280	VV	4002	48756	1.62%	0.033%
289	11.293	11.280	11.298	VV	559	5751	0.19%	0.004%
290	11.305	11.298	11.339	VV	571	10249	0.34%	0.007%
291	11.366	11.339	11.395	VV	391	8410	0.28%	0.006%
292	11.400	11.395	11.407	VV	207	1190	0.04%	0.001%
293	11.414	11.407	11.420	VV	200	1249	0.04%	0.001%
294	11.465	11.420	11.484	VV	1854	27180	0.90%	0.018%
295	11.488	11.484	11.514	VV	567	5867	0.20%	0.004%
296	11.542	11.514	11.551	PV	383	4904	0.16%	0.003%
297	11.570	11.551	11.583	VV	746	10138	0.34%	0.007%
298	11.605	11.583	11.620	VV	1250	18880	0.63%	0.013%
299	11.646	11.620	11.681	VV	1748	37187	1.24%	0.025%

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300	11.705	11.681	11.751	VV	1828	39458	1.31%	0.026%
301	11.787	11.751	11.808	VV	392	7516	0.25%	0.005%
302	11.831	11.808	11.853	VV	969	12811	0.43%	0.009%
303	11.889	11.853	11.916	VV	3328	49248	1.64%	0.033%
304	11.927	11.916	11.931	VV	377	3000	0.10%	0.002%
305	11.944	11.931	11.950	VV	430	4294	0.14%	0.003%
306	11.954	11.950	11.961	VV	367	2192	0.07%	0.001%
307	11.983	11.961	11.997	VV	2271	25505	0.85%	0.017%
308	12.014	11.997	12.036	VV	2980	32722	1.09%	0.022%
309	12.057	12.036	12.067	VV	750	10095	0.34%	0.007%
310	12.098	12.067	12.115	VV	2851	47264	1.57%	0.032%
311	12.131	12.115	12.147	VV	2081	26731	0.89%	0.018%
312	12.161	12.147	12.192	VV	2499	30786	1.02%	0.021%
313	12.200	12.192	12.218	VV	163	1553	0.05%	0.001%
314	12.239	12.218	12.262	PV	323	5251	0.17%	0.004%
315	12.309	12.262	12.318	VV	1432	29068	0.97%	0.019%
316	12.335	12.318	12.362	VV	2675	34913	1.16%	0.023%
317	12.398	12.362	12.437	VV	2797	43393	1.44%	0.029%
318	12.459	12.437	12.496	VV	2304	30610	1.02%	0.020%
319	12.560	12.496	12.621	PV	153076	2078191	69.15%	1.388%
320	12.634	12.621	12.650	VV	1580	22288	0.74%	0.015%
321	12.665	12.650	12.699	VV	1077	23732	0.79%	0.016%
322	12.712	12.699	12.717	VV	638	6548	0.22%	0.004%
323	12.728	12.717	12.753	VV	901	9928	0.33%	0.007%
324	12.775	12.753	12.785	VV	1057	11287	0.38%	0.008%
325	12.794	12.785	12.814	VV	1017	12361	0.41%	0.008%
326	12.834	12.814	12.865	VV	1806	31706	1.05%	0.021%
327	12.886	12.865	12.906	VV	3140	43680	1.45%	0.029%
328	12.919	12.906	12.929	VV	1261	15209	0.51%	0.010%
329	12.946	12.929	12.972	VV	2725	40128	1.34%	0.027%
330	12.999	12.972	13.043	VV	32293	387627	12.90%	0.259%
331	13.062	13.043	13.077	VV	759	10499	0.35%	0.007%
332	13.080	13.077	13.084	VV	605	2262	0.08%	0.002%
333	13.090	13.084	13.116	VV	545	5553	0.18%	0.004%
334	13.137	13.116	13.158	VV	1012	12821	0.43%	0.009%
335	13.182	13.158	13.227	VV	4527	84354	2.81%	0.056%
336	13.242	13.227	13.270	VV	1113	14358	0.48%	0.010%
337	13.298	13.270	13.327	PV	26628	310781	10.34%	0.208%
338	13.356	13.327	13.372	VV	3286	46365	1.54%	0.031%
339	13.388	13.372	13.419	VV	2607	36956	1.23%	0.025%
340	13.437	13.419	13.450	VV	534	7199	0.24%	0.005%
341	13.472	13.450	13.481	VV	1402	15941	0.53%	0.011%
342	13.486	13.481	13.492	VV	1230	7630	0.25%	0.005%
343	13.502	13.492	13.529	VV	1350	19319	0.64%	0.013%
344	13.570	13.529	13.599	PV	8035	133418	4.44%	0.089%
345	13.624	13.599	13.671	VV	6303	147969	4.92%	0.099%
346	13.697	13.671	13.715	VV	2268	39465	1.31%	0.026%
347	13.727	13.715	13.737	VV	1513	17033	0.57%	0.011%
348	13.787	13.737	13.852	VV	53967	754899	25.12%	0.504%
349	13.887	13.852	13.917	VV	5574	102012	3.39%	0.068%
350	13.938	13.917	13.945	PV	1021	10184	0.34%	0.007%
351	13.966	13.945	13.975	VV	1146	17089	0.57%	0.011%

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352	13.998	13.975	14.020	VV	3491	54509	1.81%	0.036%
353	14.036	14.020	14.057	VV	3438	44086	1.47%	0.029%
354	14.079	14.057	14.090	VV	2018	31706	1.05%	0.021%
355	14.095	14.090	14.112	VV	2098	20305	0.68%	0.014%
356	14.116	14.112	14.122	VV	832	4878	0.16%	0.003%
357	14.164	14.122	14.189	VV	5810	124557	4.14%	0.083%
358	14.205	14.189	14.232	VV	3090	36710	1.22%	0.025%
359	14.279	14.232	14.296	VV	1845	38143	1.27%	0.025%
360	14.303	14.296	14.312	VV	907	7734	0.26%	0.005%
361	14.318	14.312	14.328	VV	810	5321	0.18%	0.004%
362	14.373	14.328	14.381	VV	1586	34373	1.14%	0.023%
363	14.397	14.381	14.416	VV	1434	20972	0.70%	0.014%
364	14.432	14.416	14.448	VV	671	9407	0.31%	0.006%
365	14.478	14.448	14.491	PV	772	7734	0.26%	0.005%
366	14.535	14.491	14.554	VV	5855	107235	3.57%	0.072%
367	14.568	14.554	14.598	VV	3823	83970	2.79%	0.056%
368	14.621	14.598	14.642	VV	4864	76613	2.55%	0.051%
369	14.662	14.642	14.687	VV	2674	39109	1.30%	0.026%
370	14.711	14.687	14.736	VV	4374	73563	2.45%	0.049%
371	14.743	14.736	14.751	VV	2239	17980	0.60%	0.012%
372	14.776	14.751	14.790	VV	2832	52015	1.73%	0.035%
373	14.807	14.790	14.829	VV	3985	63859	2.12%	0.043%
374	14.832	14.829	14.846	VV	1751	13691	0.46%	0.009%
375	14.867	14.846	14.887	VV	5998	69258	2.30%	0.046%
376	14.927	14.887	14.950	VV	6729	98112	3.26%	0.066%
377	14.969	14.950	14.974	VV	1365	15121	0.50%	0.010%
378	14.992	14.974	15.015	VV	2221	35470	1.18%	0.024%
379	15.049	15.015	15.087	VV	88366	1280977	42.62%	0.856%
380	15.127	15.087	15.142	PV	2488	41144	1.37%	0.027%
381	15.177	15.142	15.196	VV	16928	223329	7.43%	0.149%
382	15.218	15.196	15.240	VV	19742	236179	7.86%	0.158%
383	15.253	15.240	15.281	VV	3064	47153	1.57%	0.031%
384	15.315	15.281	15.320	VV	2536	41463	1.38%	0.028%
385	15.339	15.320	15.360	VV	4300	67288	2.24%	0.045%
386	15.382	15.360	15.397	VV	2171	31933	1.06%	0.021%
387	15.417	15.397	15.446	VV	1671	28650	0.95%	0.019%
388	15.480	15.446	15.486	PV	2819	31036	1.03%	0.021%
389	15.491	15.486	15.501	VV	2385	19147	0.64%	0.013%
390	15.523	15.501	15.536	VV	1489	27437	0.91%	0.018%
391	15.543	15.536	15.550	VV	1196	6631	0.22%	0.004%
392	15.559	15.550	15.562	VV	1114	5828	0.19%	0.004%
393	15.568	15.562	15.577	VV	1196	7138	0.24%	0.005%
394	15.636	15.577	15.717	VV	46859	897690	29.87%	0.600%
395	15.737	15.717	15.743	PV	877	8116	0.27%	0.005%
396	15.775	15.743	15.794	VV	4946	76208	2.54%	0.051%
397	15.817	15.794	15.831	VV	4374	63970	2.13%	0.043%
398	15.851	15.831	15.873	VV	8071	121543	4.04%	0.081%
399	15.892	15.873	15.899	VV	2932	31986	1.06%	0.021%
400	15.909	15.899	15.927	VV	2605	33462	1.11%	0.022%
401	15.937	15.927	15.947	VV	627	3441	0.11%	0.002%
402	15.994	15.947	16.013	PV	7053	149157	4.96%	0.100%
403	16.016	16.013	16.037	VV	4327	50635	1.68%	0.034%
404	16.047	16.037	16.070	VV	2422	27669	0.92%	0.018%

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405	16.096	16.070	16.110	PV	2026	27982	0.93%	0.019%
406	16.115	16.110	16.127	VV	897	5196	0.17%	0.003%
407	16.177	16.127	16.197	VV	3688	105028	3.49%	0.070%
408	16.206	16.197	16.226	VV	3143	42476	1.41%	0.028%
409	16.244	16.226	16.255	VV	2345	28392	0.94%	0.019%
410	16.276	16.255	16.311	VV	6271	132898	4.42%	0.089%
411	16.317	16.311	16.321	VV	2411	12418	0.41%	0.008%
412	16.336	16.321	16.347	VV	2332	31206	1.04%	0.021%
413	16.362	16.347	16.373	VV	2086	29236	0.97%	0.020%
414	16.387	16.373	16.410	VV	2094	25374	0.84%	0.017%
415	16.461	16.410	16.477	PV	5703	113023	3.76%	0.075%
416	16.491	16.477	16.507	VV	5192	66337	2.21%	0.044%
417	16.518	16.507	16.522	VV	3728	27613	0.92%	0.018%
418	16.569	16.522	16.599	VV	5854	208609	6.94%	0.139%
419	16.602	16.599	16.610	VV	4096	24718	0.82%	0.017%
420	16.616	16.610	16.622	VV	5008	32912	1.10%	0.022%
421	16.660	16.622	16.696	VV	16455	360371	11.99%	0.241%
422	16.738	16.696	16.754	VV	27667	478005	15.91%	0.319%
423	16.760	16.754	16.786	VV	17421	240861	8.01%	0.161%
424	16.789	16.786	16.794	VV	5066	22779	0.76%	0.015%
425	16.799	16.794	16.805	VV	5202	31707	1.06%	0.021%
426	16.845	16.805	16.852	VV	9168	194220	6.46%	0.130%
427	16.868	16.852	16.890	VV	12721	239687	7.98%	0.160%
428	16.923	16.890	16.943	VV	10722	280294	9.33%	0.187%
429	16.967	16.943	17.003	VV	12671	330732	11.00%	0.221%
430	17.057	17.003	17.084	VV	23717	671462	22.34%	0.449%
431	17.117	17.084	17.153	VV	24687	576184	19.17%	0.385%
432	17.197	17.153	17.203	VV	13511	319042	10.62%	0.213%
433	17.224	17.203	17.235	VV	20038	328958	10.95%	0.220%
434	17.257	17.235	17.269	VV	20562	367558	12.23%	0.246%
435	17.282	17.269	17.296	VV	18659	283340	9.43%	0.189%
436	17.299	17.296	17.316	VV	16473	187286	6.23%	0.125%
437	17.322	17.316	17.345	VV	16309	256957	8.55%	0.172%
438	17.367	17.345	17.390	VV	15542	376188	12.52%	0.251%
439	17.435	17.390	17.444	VV	18290	519570	17.29%	0.347%
440	17.477	17.444	17.497	VV	22866	606786	20.19%	0.405%
441	17.506	17.497	17.511	VV	18818	146336	4.87%	0.098%
442	17.518	17.511	17.522	VV	18948	124213	4.13%	0.083%
443	17.546	17.522	17.572	VV	22654	602728	20.06%	0.403%
444	17.618	17.572	17.635	VV	29924	910094	30.28%	0.608%
445	17.650	17.635	17.665	VV	29866	474041	15.77%	0.317%
446	17.672	17.665	17.692	VV	24064	378151	12.58%	0.253%
447	17.713	17.692	17.718	VV	24197	344118	11.45%	0.230%
448	17.727	17.718	17.747	VV	23900	386742	12.87%	0.258%
449	17.757	17.747	17.767	VV	25716	277242	9.23%	0.185%
450	17.793	17.767	17.828	VV	32052	925384	30.79%	0.618%
451	17.852	17.828	17.873	VV	27488	648309	21.57%	0.433%
452	17.883	17.873	17.895	VV	23207	287930	9.58%	0.192%
453	17.910	17.895	17.931	VV	24233	471948	15.70%	0.315%
454	17.956	17.931	17.962	VV	24581	407900	13.57%	0.272%
455	17.971	17.962	17.990	VV	23789	391332	13.02%	0.261%
456	18.017	17.990	18.022	VV	30091	510677	16.99%	0.341%

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457	18.027	18.022	18.042	VV	29526	340330	11.32%	0.227%
458	18.050	18.042	18.054	VV	28657	197678	6.58%	0.132%
459	18.096	18.054	18.101	VV	36399	875425	29.13%	0.585%
460	18.116	18.101	18.142	VV	38406	848132	28.22%	0.567%
461	18.170	18.142	18.192	VV	32239	861347	28.66%	0.575%
462	18.211	18.192	18.218	VV	31235	461033	15.34%	0.308%
463	18.268	18.218	18.285	VV	65376	1708256	56.84%	1.141%
464	18.294	18.285	18.338	VV	44108	1198217	39.87%	0.800%
465	18.349	18.338	18.369	VV	33514	583741	19.42%	0.390%
466	18.373	18.369	18.378	VV	30149	156296	5.20%	0.104%
467	18.407	18.378	18.422	VV	33242	813412	27.07%	0.543%
468	18.445	18.422	18.452	VV	35380	599431	19.95%	0.400%
469	18.486	18.452	18.518	VV	75866	2095012	69.71%	1.399%
470	18.538	18.518	18.562	VV	42869	1021409	33.99%	0.682%
471	18.585	18.562	18.590	VV	36781	582723	19.39%	0.389%
472	18.636	18.590	18.661	VV	66772	2066975	68.78%	1.381%
473	18.665	18.661	18.688	VV	46697	690496	22.98%	0.461%
474	18.707	18.688	18.726	VV	37685	829164	27.59%	0.554%
475	18.747	18.726	18.769	VV	51954	1114944	37.10%	0.745%
476	18.777	18.769	18.783	VV	39075	324996	10.81%	0.217%
477	18.789	18.783	18.813	VV	39426	668878	22.26%	0.447%
478	18.836	18.813	18.853	VV	38974	890461	29.63%	0.595%
479	18.875	18.853	18.882	VV	40171	675807	22.49%	0.451%
480	18.892	18.882	18.897	VV	39019	335834	11.17%	0.224%
481	18.903	18.897	18.908	VV	39830	252889	8.41%	0.169%
482	18.945	18.908	18.990	VV	54161	2159296	71.85%	1.442%
483	18.995	18.990	18.999	VV	38471	205501	6.84%	0.137%
484	19.010	18.999	19.026	VV	42700	637791	21.22%	0.426%
485	19.060	19.026	19.083	VV	67257	1769465	58.88%	1.182%
486	19.110	19.083	19.129	VV	64545	1501912	49.98%	1.003%
487	19.133	19.129	19.147	VV	47395	491800	16.36%	0.328%
488	19.154	19.147	19.163	VV	45669	429233	14.28%	0.287%
489	19.170	19.163	19.182	VV	44134	487612	16.23%	0.326%
490	19.197	19.182	19.207	VV	49420	699311	23.27%	0.467%
491	19.230	19.207	19.243	VV	51772	1053771	35.06%	0.704%
492	19.249	19.243	19.256	VV	48006	346915	11.54%	0.232%
493	19.277	19.256	19.285	VV	50080	810381	26.96%	0.541%
494	19.315	19.285	19.342	VV	70608	2035112	67.72%	1.359%
495	19.346	19.342	19.367	VV	56498	808039	26.89%	0.540%
496	19.395	19.367	19.413	VV	62293	1542047	51.31%	1.030%
497	19.420	19.413	19.425	VV	52688	368266	12.25%	0.246%
498	19.454	19.425	19.507	VV	64766	2657763	88.44%	1.775%
499	19.526	19.507	19.536	VV	53661	885487	29.46%	0.591%
500	19.557	19.536	19.564	VV	54288	886030	29.48%	0.592%
501	19.568	19.564	19.577	VV	53920	388990	12.94%	0.260%
502	19.584	19.577	19.599	VV	55708	710534	23.64%	0.475%
503	19.610	19.599	19.619	VV	53330	620257	20.64%	0.414%
504	19.626	19.619	19.644	VV	54641	790800	26.31%	0.528%
505	19.652	19.644	19.658	VV	53745	455918	15.17%	0.305%
506	19.664	19.658	19.676	VV	53008	541564	18.02%	0.362%
507	19.679	19.676	19.684	VV	50927	248952	8.28%	0.166%
508	19.703	19.684	19.722	VV	54895	1173133	39.04%	0.784%
509	19.736	19.722	19.749	VV	57673	911403	30.33%	0.609%

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510	19.770	19.749	19.797	VV	69940	1780057	59.23%	1.189%
511	19.802	19.797	19.822	VV	59834	870609	28.97%	0.582%
512	19.862	19.822	19.884	VV	68448	2282961	75.96%	1.525%
513	19.906	19.884	19.932	VV	66877	1763811	58.69%	1.178%
514	19.951	19.932	19.959	VV	62959	961561	32.00%	0.642%
515	19.967	19.959	19.971	VV	65260	447610	14.89%	0.299%
516	19.979	19.971	19.996	VV	65013	934598	31.10%	0.624%
517	20.019	19.996	20.029	VV	64741	1226014	40.79%	0.819%
518	20.032	20.029	20.041	VV	62059	433081	14.41%	0.289%
519	20.046	20.041	20.054	VV	59922	481267	16.01%	0.321%
520	20.090	20.054	20.127	VV	78185	3005313	100.00%	2.007%
521	20.133	20.127	20.138	VV	64879	446012	14.84%	0.298%
522	20.165	20.138	20.198	VV	75154	2401407	79.91%	1.604%
523	20.212	20.198	20.217	VV	63925	715270	23.80%	0.478%
524	20.235	20.217	20.244	VV	62999	986814	32.84%	0.659%
525	20.282	20.244	20.290	VV	75971	1963825	65.35%	1.312%
526	20.296	20.290	20.315	VV	74403	1034877	34.43%	0.691%
527	20.323	20.315	20.327	VV	66545	484929	16.14%	0.324%
528	20.346	20.327	20.350	VV	75114	960724	31.97%	0.642%
529	20.357	20.350	20.369	VV	75698	840639	27.97%	0.562%
530	20.393	20.369	20.424	VV	81992	2469258	82.16%	1.649%
531	20.436	20.424	20.448	VV	74339	1032496	34.36%	0.690%
532	20.457	20.448	20.465	VV	71585	696239	23.17%	0.465%
533	20.475	20.465	20.482	VV	73900	733814	24.42%	0.490%
534	20.489	20.482	20.497	VV	74991	695572	23.14%	0.465%
535	20.502	20.497	20.511	VV	69765	544902	18.13%	0.364%
536	20.526	20.511	20.530	VV	73809	801268	26.66%	0.535%
537	20.553	20.530	20.575	VV	84556	2127921	70.81%	1.421%
538	20.594	20.575	20.602	VV	73715	1151898	38.33%	0.769%
539	20.632	20.602	20.638	VV	82488	1712299	56.98%	1.144%
540	20.641	20.638	20.663	VV	82633	1126296	37.48%	0.752%
541	20.688	20.663	20.704	VV	86181	1991579	66.27%	1.330%
542	20.706	20.704	20.712	VV	80206	359256	11.95%	0.240%
543	20.719	20.712	20.738	VV	78698	1204631	40.08%	0.805%
544	20.741	20.738	20.758	VV	76003	872120	29.02%	0.583%
545	20.762	20.758	20.768	VV	71490	401476	13.36%	0.268%
546	20.776	20.768	20.795	VV	73320	1158657	38.55%	0.774%
547	20.801	20.795	20.809	VV	70179	577729	19.22%	0.386%
548	20.834	20.809	20.856	VV	75717	2008755	66.84%	1.342%
549	20.862	20.856	20.872	VV	71195	632817	21.06%	0.423%
550	20.880	20.872	20.887	VV	69952	656327	21.84%	0.438%
551	20.894	20.887	20.918	VV	71915	1257549	41.84%	0.840%
552	20.930	20.918	20.935	VV	66642	646957	21.53%	0.432%
553	20.946	20.935	20.955	VV	68525	792991	26.39%	0.530%
554	20.962	20.955	20.984	VV	68925	1169848	38.93%	0.781%
555	20.991	20.984	21.005	VV	63113	762750	25.38%	0.509%
556	21.011	21.005	21.019	VV	64127	513285	17.08%	0.343%
557	21.026	21.019	21.033	VV	59385	491998	16.37%	0.329%
558	21.041	21.033	21.048	VV	59527	518868	17.27%	0.347%
559	21.069	21.048	21.094	VV	62261	1608268	53.51%	1.074%
560	21.116	21.094	21.126	VV	57983	1065268	35.45%	0.712%
561	21.129	21.126	21.150	VV	58151	780516	25.97%	0.521%

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562	21.162	21.150	21.170	VV	55184	632810	21.06%	0.423%
563	21.177	21.170	21.186	VV	55047	515372	17.15%	0.344%
564	21.194	21.186	21.200	VV	54203	450596	14.99%	0.301%
565	21.229	21.200	21.237	VV	57129	1198493	39.88%	0.801%
566	21.242	21.237	21.253	VV	52525	487454	16.22%	0.326%
567	21.258	21.253	21.274	VV	48876	590182	19.64%	0.394%
568	21.281	21.274	21.287	VV	49566	355134	11.82%	0.237%
569	21.291	21.287	21.302	VV	49014	429586	14.29%	0.287%
570	21.310	21.302	21.335	VV	47213	887253	29.52%	0.593%
571	21.344	21.335	21.349	VV	43736	366098	12.18%	0.245%
572	21.357	21.349	21.365	VV	43752	396315	13.19%	0.265%
573	21.378	21.365	21.384	VV	44713	504649	16.79%	0.337%
574	21.399	21.384	21.418	VV	47896	872527	29.03%	0.583%
575	21.448	21.418	21.477	VV	44196	1415417	47.10%	0.945%
576	21.485	21.477	21.496	VV	40862	430726	14.33%	0.288%
577	21.500	21.496	21.515	VV	40996	432434	14.39%	0.289%
578	21.530	21.515	21.575	VV	38663	1289162	42.90%	0.861%
579	21.611	21.575	21.617	VV	35218	823697	27.41%	0.550%
580	21.627	21.617	21.642	VV	34418	488440	16.25%	0.326%
581	21.647	21.642	21.655	VV	32655	229429	7.63%	0.153%
582	21.669	21.655	21.676	VV	38267	445109	14.81%	0.297%
583	21.685	21.676	21.716	VV	39126	803253	26.73%	0.537%
584	21.723	21.716	21.739	VV	29498	385871	12.84%	0.258%
585	21.747	21.739	21.761	VV	29117	356113	11.85%	0.238%
586	21.772	21.761	21.781	VV	26875	308189	10.25%	0.206%
587	21.788	21.781	21.800	VV	25781	275337	9.16%	0.184%
588	21.806	21.800	21.816	VV	25260	237666	7.91%	0.159%
589	21.823	21.816	21.843	VV	24313	358910	11.94%	0.240%
590	21.854	21.843	21.869	VV	23092	320201	10.65%	0.214%
591	21.878	21.869	21.889	VV	22529	245374	8.16%	0.164%
592	21.897	21.889	21.919	VV	23688	344906	11.48%	0.230%
593	21.923	21.919	21.936	VV	18476	181879	6.05%	0.121%
594	21.943	21.936	21.947	VV	18258	101137	3.37%	0.068%
595	21.954	21.947	21.962	VV	19314	159032	5.29%	0.106%
596	21.971	21.962	21.985	VV	18196	232727	7.74%	0.155%
597	22.011	21.985	22.022	VV	18363	351014	11.68%	0.234%
598	22.033	22.022	22.052	VV	14712	234312	7.80%	0.157%
599	22.059	22.052	22.073	VV	14359	143315	4.77%	0.096%
600	22.106	22.073	22.126	VV	14106	363924	12.11%	0.243%
601	22.184	22.126	22.224	VV	17044	614859	20.46%	0.411%
602	22.240	22.224	22.248	VV	8092	81495	2.71%	0.054%
603	22.259	22.248	22.272	VV	7367	80302	2.67%	0.054%
604	22.277	22.272	22.288	VV	3845	24041	0.80%	0.016%
605	22.296	22.288	22.300	PBA	1969	43608	1.45%	0.029%

Sum of corrected areas: 149711751

FG102124.M Mon Nov 04 03:04:11 2024

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	10/31/24	
Project:	Rt. 10 Whippany		Date Received:	10/31/24	
Client Sample ID:	RES-BUILDING-PAD-NO-11		SDG No.:	P4663	
Lab Sample ID:	P4663-04		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	91.7	Decanted:
Sample Wt/Vol:	30.09	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014622.D	1	11/01/24 11:35	11/01/24 15:12	PB164602

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	27400		346	3080	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	13.3		37 - 130	67%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014622.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 15:12
Operator : YP\AJ
Sample : P4663-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-11

Integration File: autoint1.e
Quant Time: Nov 04 01:30:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.053	1591735	13.308 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

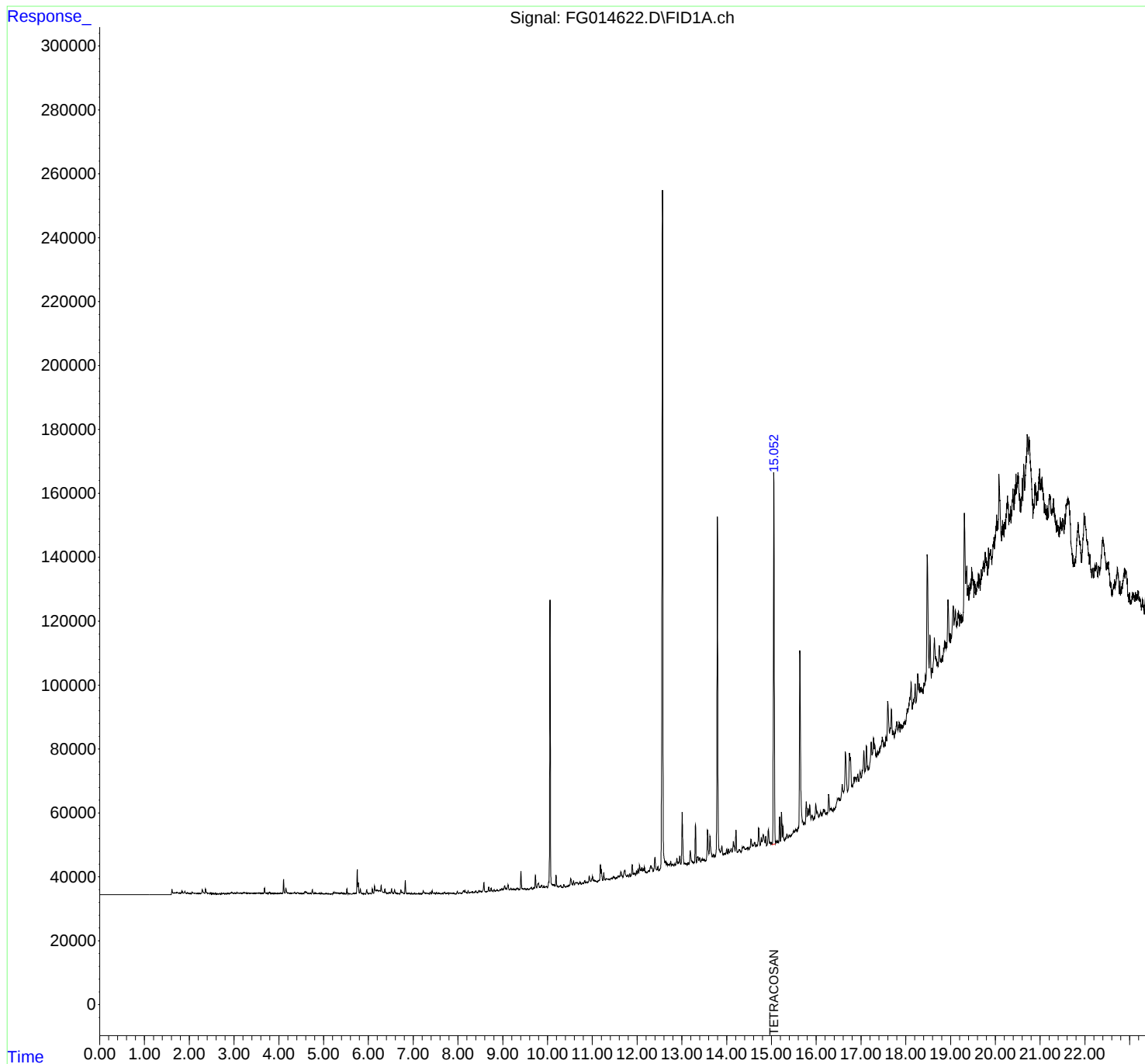
(m)=manual int.

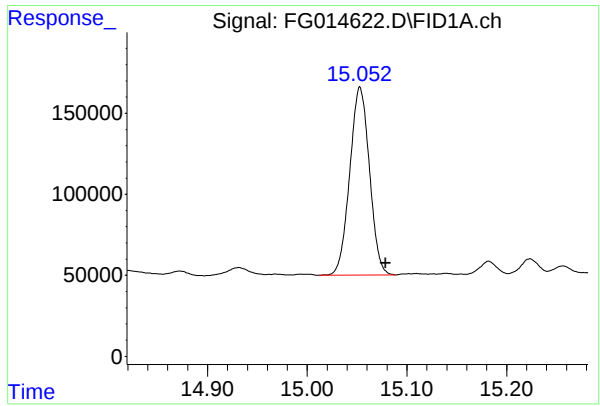
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014622.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 15:12
Operator : YP\AJ
Sample : P4663-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-11

Integration File: autoint1.e
Quant Time: Nov 04 01:30:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.053 min
Delta R.T.: -0.026 min
Response: 1591735
Conc: 13.31 ug/ml

Instrument :

FID_G

ClientSampleId :

RES-BUILDING-PAD-NO-11

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
 Data File : FG014622.D
 Signal(s) : FID1A.ch
 Acq On : 01 Nov 2024 15:12
 Sample : P4663-04
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
 Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.936	1.918	1.943	BV	38	-125	-0.00%	-0.000%
2	1.959	1.943	1.993	PV	174	2758	0.09%	0.003%
3	1.997	1.993	2.021	VV	112	686	0.02%	0.001%
4	2.024	2.021	2.029	PV	81	274	0.01%	0.000%
5	2.063	2.029	2.107	VV	387	8565	0.29%	0.009%
6	2.116	2.107	2.128	VV	183	1546	0.05%	0.002%
7	2.136	2.128	2.150	VV	160	1545	0.05%	0.002%
8	2.157	2.150	2.164	VV	95	633	0.02%	0.001%
9	2.175	2.164	2.180	VV	106	811	0.03%	0.001%
10	2.184	2.180	2.204	VV	133	1036	0.03%	0.001%
11	2.216	2.204	2.226	VV	146	1314	0.04%	0.001%
12	2.234	2.226	2.238	VV	102	669	0.02%	0.001%
13	2.243	2.238	2.249	VV	109	571	0.02%	0.001%
14	2.261	2.249	2.277	VV	137	1977	0.07%	0.002%
15	2.290	2.277	2.351	VV	1359	25035	0.84%	0.026%
16	2.363	2.351	2.419	VV	1537	23352	0.79%	0.024%
17	2.423	2.419	2.438	VV	219	1830	0.06%	0.002%
18	2.444	2.438	2.462	VV	228	2625	0.09%	0.003%
19	2.474	2.462	2.495	VV	200	2446	0.08%	0.003%
20	2.504	2.495	2.519	VV	149	1294	0.04%	0.001%
21	2.526	2.519	2.544	VV	117	1258	0.04%	0.001%
22	2.554	2.544	2.570	VV	142	1437	0.05%	0.001%
23	2.591	2.570	2.599	VV	151	1258	0.04%	0.001%
24	2.605	2.599	2.619	VV	108	979	0.03%	0.001%
25	2.623	2.619	2.652	VV	94	1317	0.04%	0.001%
26	2.662	2.652	2.669	PV	97	596	0.02%	0.001%
27	2.675	2.669	2.701	VV	98	1416	0.05%	0.001%
28	2.716	2.701	2.732	PV	167	1690	0.06%	0.002%
29	2.760	2.732	2.788	VV	234	5294	0.18%	0.005%
30	2.819	2.788	2.824	VV	144	2279	0.08%	0.002%
31	2.827	2.824	2.831	VV	135	421	0.01%	0.000%
32	2.837	2.831	2.842	VV	150	820	0.03%	0.001%
33	2.853	2.842	2.860	VV	212	1608	0.05%	0.002%
34	2.869	2.860	2.887	VV	169	2242	0.08%	0.002%
35	2.936	2.887	2.952	VV	416	10053	0.34%	0.010%
36	2.957	2.952	2.994	VV	391	7016	0.24%	0.007%

					rteres			
37	3.008	2.994	3.040	VV	333	7175	0.24%	0.007%
38	3.043	3.040	3.047	VV	265	901	0.03%	0.001%
39	3.066	3.047	3.089	VV	469	7595	0.26%	0.008%
40	3.105	3.089	3.117	VV	344	4848	0.16%	0.005%
41	3.123	3.117	3.128	VV	291	1869	0.06%	0.002%
42	3.134	3.128	3.144	VV	320	2804	0.09%	0.003%
43	3.147	3.144	3.155	VV	338	1932	0.07%	0.002%
44	3.158	3.155	3.171	VV	304	2440	0.08%	0.003%
45	3.176	3.171	3.187	VV	292	2582	0.09%	0.003%
46	3.209	3.187	3.228	VV	503	8889	0.30%	0.009%
47	3.239	3.228	3.271	VV	416	8675	0.29%	0.009%
48	3.275	3.271	3.286	VV	330	2363	0.08%	0.002%
49	3.290	3.286	3.298	VV	273	1819	0.06%	0.002%
50	3.304	3.298	3.312	VV	298	2242	0.08%	0.002%
51	3.325	3.312	3.344	VV	352	5479	0.18%	0.006%
52	3.349	3.344	3.354	VV	273	1560	0.05%	0.002%
53	3.364	3.354	3.373	VV	318	3115	0.11%	0.003%
54	3.378	3.373	3.387	VV	278	2123	0.07%	0.002%
55	3.393	3.387	3.403	VV	301	2427	0.08%	0.003%
56	3.412	3.403	3.425	VV	278	3101	0.10%	0.003%
57	3.437	3.425	3.447	VV	240	2818	0.09%	0.003%
58	3.458	3.447	3.463	VV	278	2161	0.07%	0.002%
59	3.510	3.463	3.531	VV	332	11079	0.37%	0.011%
60	3.540	3.531	3.554	VV	330	3903	0.13%	0.004%
61	3.567	3.554	3.592	VV	343	6241	0.21%	0.006%
62	3.597	3.592	3.605	VV	264	1755	0.06%	0.002%
63	3.616	3.605	3.623	VV	264	2368	0.08%	0.002%
64	3.639	3.623	3.654	VV	331	4789	0.16%	0.005%
65	3.679	3.654	3.715	VV	1882	25888	0.87%	0.027%
66	3.733	3.715	3.746	VV	292	4447	0.15%	0.005%
67	3.789	3.746	3.830	VV	574	16599	0.56%	0.017%
68	3.834	3.830	3.839	VV	212	1005	0.03%	0.001%
69	3.854	3.839	3.860	VV	292	2844	0.10%	0.003%
70	3.863	3.860	3.877	VV	272	2031	0.07%	0.002%
71	3.907	3.877	3.922	VV	269	5571	0.19%	0.006%
72	3.926	3.922	3.931	VV	233	1088	0.04%	0.001%
73	3.943	3.931	3.957	VV	214	2816	0.09%	0.003%
74	3.964	3.957	3.968	VV	223	1184	0.04%	0.001%
75	3.974	3.968	3.983	VV	245	1663	0.06%	0.002%
76	3.993	3.983	3.998	VV	202	1621	0.05%	0.002%
77	4.016	3.998	4.024	VV	226	2969	0.10%	0.003%
78	4.040	4.024	4.066	VV	363	6725	0.23%	0.007%
79	4.076	4.066	4.083	VV	277	2168	0.07%	0.002%
80	4.107	4.083	4.138	VV	4647	48614	1.64%	0.050%
81	4.159	4.138	4.207	VV	1775	30547	1.03%	0.032%
82	4.227	4.207	4.260	VV	417	9847	0.33%	0.010%
83	4.264	4.260	4.272	VV	297	1799	0.06%	0.002%
84	4.286	4.272	4.294	VV	311	3610	0.12%	0.004%
85	4.307	4.294	4.312	VV	322	3316	0.11%	0.003%
86	4.318	4.312	4.331	VV	331	3294	0.11%	0.003%
87	4.348	4.331	4.367	VV	589	8760	0.30%	0.009%
88	4.372	4.367	4.379	VV	291	1981	0.07%	0.002%
89	4.419	4.379	4.458	VV	576	16104	0.54%	0.017%

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90	4.479	4.458	4.496	VV	263	4997	0.17%	0.005%
91	4.510	4.496	4.518	VV	241	2551	0.09%	0.003%
92	4.523	4.518	4.528	VV	231	1169	0.04%	0.001%
93	4.534	4.528	4.543	VV	223	1781	0.06%	0.002%
94	4.551	4.543	4.560	VV	237	2189	0.07%	0.002%
95	4.579	4.560	4.586	VV	786	8680	0.29%	0.009%
96	4.596	4.586	4.611	VV	887	10249	0.35%	0.011%
97	4.620	4.611	4.647	VV	607	8988	0.30%	0.009%
98	4.652	4.647	4.657	VV	290	1666	0.06%	0.002%
99	4.662	4.657	4.668	VV	292	1630	0.05%	0.002%
100	4.673	4.668	4.687	VV	262	2552	0.09%	0.003%
101	4.700	4.687	4.727	VV	279	5258	0.18%	0.005%
102	4.749	4.727	4.792	VV	1521	21517	0.73%	0.022%
103	4.809	4.792	4.819	VV	401	5062	0.17%	0.005%
104	4.825	4.819	4.850	VV	323	4353	0.15%	0.004%
105	4.864	4.850	4.870	VV	204	2055	0.07%	0.002%
106	4.877	4.870	4.884	VV	217	1693	0.06%	0.002%
107	4.894	4.884	4.911	VV	249	3592	0.12%	0.004%
108	4.919	4.911	4.925	VV	220	1664	0.06%	0.002%
109	4.929	4.925	4.933	VV	156	708	0.02%	0.001%
110	4.951	4.933	4.975	VV	396	6091	0.21%	0.006%
111	4.982	4.975	4.994	VV	196	1983	0.07%	0.002%
112	4.998	4.994	5.009	VV	189	1464	0.05%	0.002%
113	5.013	5.009	5.017	VV	178	671	0.02%	0.001%
114	5.025	5.017	5.042	VV	193	2326	0.08%	0.002%
115	5.059	5.042	5.072	VV	267	3635	0.12%	0.004%
116	5.077	5.072	5.090	VV	184	1537	0.05%	0.002%
117	5.095	5.090	5.102	VV	132	858	0.03%	0.001%
118	5.107	5.102	5.124	VV	157	1364	0.05%	0.001%
119	5.135	5.124	5.155	VV	141	1434	0.05%	0.001%
120	5.166	5.155	5.182	VV	129	1471	0.05%	0.002%
121	5.188	5.182	5.207	VV	148	1648	0.06%	0.002%
122	5.238	5.207	5.257	VV	533	10073	0.34%	0.010%
123	5.272	5.257	5.287	VV	553	7645	0.26%	0.008%
124	5.294	5.287	5.315	VV	418	5949	0.20%	0.006%
125	5.322	5.315	5.333	VV	381	3518	0.12%	0.004%
126	5.336	5.333	5.358	VV	308	3747	0.13%	0.004%
127	5.369	5.358	5.384	VV	216	2912	0.10%	0.003%
128	5.398	5.384	5.422	VV	566	7806	0.26%	0.008%
129	5.426	5.422	5.430	VV	224	970	0.03%	0.001%
130	5.435	5.430	5.447	VV	238	1908	0.06%	0.002%
131	5.453	5.447	5.458	VV	221	1129	0.04%	0.001%
132	5.470	5.458	5.492	VV	217	3351	0.11%	0.003%
133	5.521	5.492	5.548	VV	1737	20528	0.69%	0.021%
134	5.556	5.548	5.577	VV	235	2657	0.09%	0.003%
135	5.592	5.577	5.622	VV	214	2978	0.10%	0.003%
136	5.625	5.622	5.635	PV	45	199	0.01%	0.000%
137	5.674	5.635	5.688	VV	295	6671	0.22%	0.007%
138	5.717	5.688	5.725	VV	396	6548	0.22%	0.007%
139	5.752	5.725	5.767	VV	7717	78884	2.66%	0.082%
140	5.776	5.767	5.803	VV	3682	38045	1.28%	0.039%
141	5.822	5.803	5.883	VV	1685	25775	0.87%	0.027%

					rteres			
142	5.904	5.883	5.926	VV	269	4371	0.15%	0.005%
143	5.962	5.926	6.007	VV	1367	21418	0.72%	0.022%
144	6.043	6.007	6.063	VV	425	7345	0.25%	0.008%
145	6.090	6.063	6.117	VV	1727	21123	0.71%	0.022%
146	6.139	6.117	6.163	VV	2551	36351	1.23%	0.038%
147	6.189	6.163	6.216	VV	1305	38350	1.29%	0.040%
148	6.225	6.216	6.238	VV	1130	14279	0.48%	0.015%
149	6.245	6.238	6.269	VV	1138	20007	0.67%	0.021%
150	6.285	6.269	6.351	VV	2710	53470	1.80%	0.055%
151	6.368	6.351	6.417	VV	1673	27676	0.93%	0.029%
152	6.440	6.417	6.449	VV	412	5647	0.19%	0.006%
153	6.467	6.449	6.481	VV	612	8135	0.27%	0.008%
154	6.493	6.481	6.500	VV	387	3887	0.13%	0.004%
155	6.518	6.500	6.563	VV	1720	25083	0.85%	0.026%
156	6.587	6.563	6.625	VV	1392	21835	0.74%	0.023%
157	6.639	6.625	6.660	VV	295	4371	0.15%	0.005%
158	6.664	6.660	6.668	VV	168	732	0.02%	0.001%
159	6.673	6.668	6.699	VV	168	2043	0.07%	0.002%
160	6.728	6.699	6.743	VV	1290	16208	0.55%	0.017%
161	6.762	6.743	6.792	VV	610	12292	0.41%	0.013%
162	6.800	6.792	6.804	VV	183	1151	0.04%	0.001%
163	6.825	6.804	6.866	VV	4362	46214	1.56%	0.048%
164	6.880	6.866	6.893	VV	341	3831	0.13%	0.004%
165	6.900	6.893	6.933	VV	238	3729	0.13%	0.004%
166	6.956	6.933	6.970	VV	273	2586	0.09%	0.003%
167	6.977	6.970	6.993	VV	125	890	0.03%	0.001%
168	7.031	6.993	7.048	PV	333	5832	0.20%	0.006%
169	7.069	7.048	7.078	VV	175	2016	0.07%	0.002%
170	7.085	7.078	7.113	VV	198	2423	0.08%	0.003%
171	7.127	7.113	7.146	VV	213	2548	0.09%	0.003%
172	7.156	7.146	7.170	VV	166	1466	0.05%	0.002%
173	7.200	7.170	7.205	PV	199	2266	0.08%	0.002%
174	7.226	7.205	7.272	VV	1035	19117	0.64%	0.020%
175	7.278	7.272	7.302	VV	351	4795	0.16%	0.005%
176	7.326	7.302	7.354	VV	299	5515	0.19%	0.006%
177	7.383	7.354	7.402	VV	581	8202	0.28%	0.008%
178	7.424	7.402	7.450	VV	1027	13558	0.46%	0.014%
179	7.472	7.450	7.489	VV	397	5820	0.20%	0.006%
180	7.493	7.489	7.503	VV	134	748	0.03%	0.001%
181	7.522	7.503	7.546	VV	483	5461	0.18%	0.006%
182	7.564	7.546	7.591	VV	409	5556	0.19%	0.006%
183	7.598	7.591	7.629	VV	162	1927	0.06%	0.002%
184	7.648	7.629	7.661	VV	227	2663	0.09%	0.003%
185	7.697	7.661	7.730	VV	533	10397	0.35%	0.011%
186	7.736	7.730	7.744	VV	192	1066	0.04%	0.001%
187	7.763	7.744	7.799	VV	353	6525	0.22%	0.007%
188	7.817	7.799	7.850	VV	359	7206	0.24%	0.007%
189	7.862	7.850	7.867	VV	263	2152	0.07%	0.002%
190	7.872	7.867	7.882	VV	252	2034	0.07%	0.002%
191	7.888	7.882	7.901	VV	211	1797	0.06%	0.002%
192	7.916	7.901	7.940	VV	256	2475	0.08%	0.003%
193	7.952	7.940	7.961	PV	68	624	0.02%	0.001%
194	7.987	7.961	8.020	VV	843	11461	0.39%	0.012%

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195	8.042	8.020	8.062	VV	325	4917	0.17%	0.005%
196	8.070	8.062	8.079	VV	159	1204	0.04%	0.001%
197	8.083	8.079	8.094	VV	101	696	0.02%	0.001%
198	8.124	8.094	8.143	VV	896	15594	0.53%	0.016%
199	8.157	8.143	8.173	VV	1012	11962	0.40%	0.012%
200	8.182	8.173	8.204	VV	360	4363	0.15%	0.005%
201	8.229	8.204	8.254	VV	841	9583	0.32%	0.010%
202	8.275	8.254	8.290	VV	314	4517	0.15%	0.005%
203	8.316	8.290	8.321	VV	414	5863	0.20%	0.006%
204	8.324	8.321	8.344	VV	385	3669	0.12%	0.004%
205	8.351	8.344	8.362	VV	145	1201	0.04%	0.001%
206	8.399	8.362	8.433	VV	681	13047	0.44%	0.013%
207	8.469	8.433	8.487	PV	760	11213	0.38%	0.012%
208	8.498	8.487	8.518	VV	517	7303	0.25%	0.008%
209	8.527	8.518	8.538	VV	422	3998	0.13%	0.004%
210	8.580	8.538	8.621	VV	3159	48053	1.62%	0.050%
211	8.626	8.621	8.629	VV	185	732	0.02%	0.001%
212	8.646	8.629	8.654	VV	237	2913	0.10%	0.003%
213	8.687	8.654	8.716	VV	1647	24169	0.81%	0.025%
214	8.742	8.716	8.765	VV	1245	19561	0.66%	0.020%
215	8.768	8.765	8.784	VV	415	3082	0.10%	0.003%
216	8.807	8.784	8.824	VV	732	10943	0.37%	0.011%
217	8.830	8.824	8.834	VV	281	1447	0.05%	0.001%
218	8.848	8.834	8.853	VV	343	3287	0.11%	0.003%
219	8.877	8.853	8.899	VV	733	11791	0.40%	0.012%
220	8.913	8.899	8.927	VV	275	3609	0.12%	0.004%
221	8.944	8.927	8.962	VV	760	10301	0.35%	0.011%
222	8.982	8.962	9.002	VV	901	14997	0.51%	0.016%
223	9.045	9.002	9.064	VV	1754	38488	1.30%	0.040%
224	9.077	9.064	9.093	VV	886	12253	0.41%	0.013%
225	9.121	9.093	9.149	VV	1997	37998	1.28%	0.039%
226	9.154	9.149	9.159	VV	341	1928	0.07%	0.002%
227	9.179	9.159	9.196	VV	817	12498	0.42%	0.013%
228	9.205	9.196	9.221	VV	594	7146	0.24%	0.007%
229	9.235	9.221	9.249	VV	556	7568	0.26%	0.008%
230	9.267	9.249	9.289	VV	508	9075	0.31%	0.009%
231	9.324	9.289	9.341	VV	830	15967	0.54%	0.017%
232	9.352	9.341	9.368	VV	520	6013	0.20%	0.006%
233	9.409	9.368	9.435	VV	5901	71247	2.40%	0.074%
234	9.454	9.435	9.467	VV	481	7883	0.27%	0.008%
235	9.497	9.467	9.523	VV	624	11648	0.39%	0.012%
236	9.550	9.523	9.579	VV	460	7127	0.24%	0.007%
237	9.589	9.579	9.594	VV	192	1086	0.04%	0.001%
238	9.613	9.594	9.621	VV	462	5244	0.18%	0.005%
239	9.641	9.621	9.670	VV	748	12165	0.41%	0.013%
240	9.693	9.670	9.706	VV	657	8283	0.28%	0.009%
241	9.730	9.706	9.759	VV	4371	55789	1.88%	0.058%
242	9.788	9.759	9.795	VV	1750	27307	0.92%	0.028%
243	9.800	9.795	9.819	VV	1835	18475	0.62%	0.019%
244	9.829	9.819	9.840	VV	680	7793	0.26%	0.008%
245	9.861	9.840	9.868	VV	1090	14619	0.49%	0.015%
246	9.874	9.868	9.902	VV	1128	14426	0.49%	0.015%

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247	9.919	9.902	9.941	VV	973	14424	0.49%	0.015%
248	9.980	9.941	9.999	VV	808	19752	0.67%	0.020%
249	10.057	9.999	10.114	VV	90263	979622	33.03%	1.013%
250	10.126	10.114	10.144	VV	1188	18346	0.62%	0.019%
251	10.157	10.144	10.172	VV	1059	15185	0.51%	0.016%
252	10.192	10.172	10.245	VV	4096	60082	2.03%	0.062%
253	10.270	10.245	10.280	VV	577	9561	0.32%	0.010%
254	10.294	10.280	10.342	VV	843	13059	0.44%	0.014%
255	10.365	10.342	10.407	PV	961	15950	0.54%	0.016%
256	10.434	10.407	10.447	VV	348	5198	0.18%	0.005%
257	10.467	10.447	10.476	VV	480	5504	0.19%	0.006%
258	10.520	10.476	10.559	VV	2491	52327	1.76%	0.054%
259	10.583	10.559	10.602	VV	1669	25435	0.86%	0.026%
260	10.633	10.602	10.650	VV	1008	22220	0.75%	0.023%
261	10.667	10.650	10.693	VV	936	18126	0.61%	0.019%
262	10.729	10.693	10.762	VV	925	20502	0.69%	0.021%
263	10.776	10.762	10.806	VV	604	11060	0.37%	0.011%
264	10.834	10.806	10.856	VV	1054	19517	0.66%	0.020%
265	10.886	10.856	10.899	VV	672	12461	0.42%	0.013%
266	10.933	10.899	10.966	VV	2353	43214	1.46%	0.045%
267	11.006	10.966	11.034	VV	2069	46658	1.57%	0.048%
268	11.049	11.034	11.112	VV	764	19153	0.65%	0.020%
269	11.129	11.112	11.136	PV	387	3598	0.12%	0.004%
270	11.143	11.136	11.152	VV	425	3651	0.12%	0.004%
271	11.182	11.152	11.194	VV	5290	63709	2.15%	0.066%
272	11.204	11.194	11.234	VV	3898	46429	1.57%	0.048%
273	11.257	11.234	11.283	VV	2599	33216	1.12%	0.034%
274	11.315	11.283	11.338	VV	630	15595	0.53%	0.016%
275	11.354	11.338	11.382	VV	506	8517	0.29%	0.009%
276	11.393	11.382	11.398	VV	239	1794	0.06%	0.002%
277	11.420	11.398	11.426	VV	518	6561	0.22%	0.007%
278	11.444	11.426	11.454	VV	537	7333	0.25%	0.008%
279	11.470	11.454	11.484	VV	1019	12798	0.43%	0.013%
280	11.492	11.484	11.514	VV	730	8064	0.27%	0.008%
281	11.539	11.514	11.555	VV	499	7579	0.26%	0.008%
282	11.582	11.555	11.595	VV	820	14998	0.51%	0.016%
283	11.601	11.595	11.603	VV	760	3542	0.12%	0.004%
284	11.610	11.603	11.620	VV	865	7548	0.25%	0.008%
285	11.639	11.620	11.688	VV	2060	41753	1.41%	0.043%
286	11.727	11.688	11.765	VV	2365	59327	2.00%	0.061%
287	11.794	11.765	11.815	VV	696	12121	0.41%	0.013%
288	11.834	11.815	11.852	PV	915	10132	0.34%	0.010%
289	11.892	11.852	11.919	VV	3640	52848	1.78%	0.055%
290	11.944	11.919	11.968	VV	789	16898	0.57%	0.017%
291	11.987	11.968	12.003	VV	1382	16551	0.56%	0.017%
292	12.020	12.003	12.037	VV	2014	25364	0.86%	0.026%
293	12.055	12.037	12.085	VV	2982	50632	1.71%	0.052%
294	12.102	12.085	12.120	VV	2100	33303	1.12%	0.034%
295	12.136	12.120	12.150	VV	1713	23965	0.81%	0.025%
296	12.166	12.150	12.209	VV	2163	33270	1.12%	0.034%
297	12.223	12.209	12.226	VV	319	2631	0.09%	0.003%
298	12.258	12.226	12.272	VV	644	12497	0.42%	0.013%
299	12.307	12.272	12.364	VV	2221	65528	2.21%	0.068%

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300	12.399	12.364	12.433	VV	4386	79317	2.67%	0.082%
301	12.464	12.433	12.485	VV	1395	21992	0.74%	0.023%
302	12.568	12.485	12.622	PV	212086	2966278	100.00%	3.066%
303	12.639	12.622	12.657	VV	2693	46257	1.56%	0.048%
304	12.668	12.657	12.684	VV	1913	25104	0.85%	0.026%
305	12.689	12.684	12.695	VV	1301	7856	0.26%	0.008%
306	12.717	12.695	12.722	VV	1282	19244	0.65%	0.020%
307	12.729	12.722	12.733	VV	1280	8526	0.29%	0.009%
308	12.753	12.733	12.768	VV	2097	31871	1.07%	0.033%
309	12.777	12.768	12.790	VV	1204	13835	0.47%	0.014%
310	12.803	12.790	12.822	VV	1152	16582	0.56%	0.017%
311	12.838	12.822	12.856	VV	1128	17446	0.59%	0.018%
312	12.889	12.856	12.909	VV	2646	49751	1.68%	0.051%
313	12.923	12.909	12.929	VV	1360	14035	0.47%	0.015%
314	12.951	12.929	12.976	VV	3171	50366	1.70%	0.052%
315	13.006	12.976	13.052	VV	16722	262666	8.86%	0.272%
316	13.062	13.052	13.082	VV	762	10160	0.34%	0.011%
317	13.104	13.082	13.120	VV	425	6356	0.21%	0.007%
318	13.144	13.120	13.154	VV	544	5649	0.19%	0.006%
319	13.187	13.154	13.240	VV	4165	78810	2.66%	0.081%
320	13.248	13.240	13.267	VV	572	5486	0.18%	0.006%
321	13.274	13.267	13.278	VV	280	1608	0.05%	0.002%
322	13.304	13.278	13.327	VV	12027	137184	4.62%	0.142%
323	13.358	13.327	13.380	VV	1873	37761	1.27%	0.039%
324	13.397	13.380	13.426	VV	1442	20822	0.70%	0.022%
325	13.452	13.426	13.463	VV	842	11676	0.39%	0.012%
326	13.469	13.463	13.493	VV	600	8877	0.30%	0.009%
327	13.505	13.493	13.522	VV	590	7402	0.25%	0.008%
328	13.573	13.522	13.604	PV	9591	157006	5.29%	0.162%
329	13.627	13.604	13.684	VV	7362	154690	5.21%	0.160%
330	13.703	13.684	13.721	VV	1525	23401	0.79%	0.024%
331	13.732	13.721	13.749	VV	1098	13108	0.44%	0.014%
332	13.793	13.749	13.859	VV	106803	1359289	45.82%	1.405%
333	13.892	13.859	13.927	VV	3507	79132	2.67%	0.082%
334	13.942	13.927	13.949	VV	1048	11089	0.37%	0.011%
335	13.969	13.949	13.982	VV	942	15739	0.53%	0.016%
336	14.002	13.982	14.023	VV	2108	33752	1.14%	0.035%
337	14.041	14.023	14.061	VV	1983	28965	0.98%	0.030%
338	14.102	14.061	14.122	VV	1989	47218	1.59%	0.049%
339	14.150	14.122	14.185	VV	3981	84908	2.86%	0.088%
340	14.207	14.185	14.236	VV	7413	98141	3.31%	0.101%
341	14.244	14.236	14.249	VV	421	2744	0.09%	0.003%
342	14.278	14.249	14.318	VV	1092	25793	0.87%	0.027%
343	14.352	14.318	14.358	PV	1545	19238	0.65%	0.020%
344	14.381	14.358	14.412	VV	1610	39831	1.34%	0.041%
345	14.426	14.412	14.435	VV	789	9706	0.33%	0.010%
346	14.451	14.435	14.461	VV	965	11921	0.40%	0.012%
347	14.474	14.461	14.494	VV	1083	13549	0.46%	0.014%
348	14.516	14.494	14.522	VV	1018	11246	0.38%	0.012%
349	14.543	14.522	14.581	VV	3327	71563	2.41%	0.074%
350	14.587	14.581	14.596	VV	1227	10246	0.35%	0.011%
351	14.623	14.596	14.652	VV	2121	49690	1.68%	0.051%

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352	14.659	14.652	14.665	VV	1215	8231	0.28%	0.009%
353	14.671	14.665	14.681	VV	1234	9632	0.32%	0.010%
354	14.714	14.681	14.753	VV	6305	113341	3.82%	0.117%
355	14.773	14.753	14.792	VV	3136	47713	1.61%	0.049%
356	14.817	14.792	14.855	VV	3813	96230	3.24%	0.099%
357	14.872	14.855	14.897	VV	3114	41045	1.38%	0.042%
358	14.931	14.897	14.959	VV	5035	81914	2.76%	0.085%
359	14.968	14.959	14.984	VV	931	9663	0.33%	0.010%
360	14.994	14.984	15.012	VV	798	8559	0.29%	0.009%
361	15.053	15.012	15.089	VV	116060	1591735	53.66%	1.646%
362	15.109	15.089	15.122	PV	775	9950	0.34%	0.010%
363	15.139	15.122	15.159	VV	740	8449	0.28%	0.009%
364	15.182	15.159	15.202	PV	8097	89901	3.03%	0.093%
365	15.223	15.202	15.241	VV	9331	111119	3.75%	0.115%
366	15.256	15.241	15.293	VV	4777	58781	1.98%	0.061%
367	15.309	15.293	15.322	PV	635	7301	0.25%	0.008%
368	15.343	15.322	15.370	VV	1754	27013	0.91%	0.028%
369	15.395	15.370	15.415	VV	994	15057	0.51%	0.016%
370	15.427	15.415	15.436	VV	431	3679	0.12%	0.004%
371	15.500	15.436	15.517	VV	1372	37125	1.25%	0.038%
372	15.543	15.517	15.575	VV	1376	34661	1.17%	0.036%
373	15.635	15.575	15.719	VV	56705	1027443	34.64%	1.062%
374	15.729	15.719	15.752	VV	1946	31750	1.07%	0.033%
375	15.776	15.752	15.796	VV	8037	125957	4.25%	0.130%
376	15.818	15.796	15.837	VV	5510	107490	3.62%	0.111%
377	15.854	15.837	15.882	VV	6382	109680	3.70%	0.113%
378	15.902	15.882	15.933	VV	2533	60034	2.02%	0.062%
379	15.947	15.933	15.962	VV	1644	22349	0.75%	0.023%
380	15.987	15.962	16.009	VV	5472	98808	3.33%	0.102%
381	16.014	16.009	16.023	VV	3033	24295	0.82%	0.025%
382	16.028	16.023	16.056	VV	2549	32482	1.10%	0.034%
383	16.072	16.056	16.078	VV	1527	15068	0.51%	0.016%
384	16.098	16.078	16.130	VV	2101	43623	1.47%	0.045%
385	16.159	16.130	16.172	VV	2422	41038	1.38%	0.042%
386	16.186	16.172	16.213	VV	1945	33136	1.12%	0.034%
387	16.219	16.213	16.234	VV	659	5891	0.20%	0.006%
388	16.245	16.234	16.252	VV	604	5342	0.18%	0.006%
389	16.277	16.252	16.305	VV	6018	89624	3.02%	0.093%
390	16.317	16.305	16.335	VV	1177	18192	0.61%	0.019%
391	16.340	16.335	16.367	VV	1174	10678	0.36%	0.011%
392	16.388	16.367	16.402	VV	722	7155	0.24%	0.007%
393	16.495	16.402	16.507	PV	2728	93599	3.16%	0.097%
394	16.511	16.507	16.517	VV	1947	10853	0.37%	0.011%
395	16.527	16.517	16.540	VV	2036	23716	0.80%	0.025%
396	16.580	16.540	16.606	VV	5906	142104	4.79%	0.147%
397	16.610	16.606	16.614	VV	3246	15313	0.52%	0.016%
398	16.651	16.614	16.698	VV	15100	373886	12.60%	0.387%
399	16.742	16.698	16.754	VV	13658	238087	8.03%	0.246%
400	16.763	16.754	16.790	VV	12162	176194	5.94%	0.182%
401	16.795	16.790	16.801	VV	2855	18041	0.61%	0.019%
402	16.808	16.801	16.814	VV	2780	20212	0.68%	0.021%
403	16.847	16.814	16.857	VV	4818	96801	3.26%	0.100%
404	16.876	16.857	16.904	VV	4515	109874	3.70%	0.114%

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405	16.928	16.904	16.952	VV	4780	101001	3.40%	0.104%
406	16.981	16.952	17.004	VV	4884	115000	3.88%	0.119%
407	17.026	17.004	17.030	VV	4474	55401	1.87%	0.057%
408	17.062	17.030	17.093	VV	10456	238522	8.04%	0.247%
409	17.121	17.093	17.157	VV	11275	239767	8.08%	0.248%
410	17.165	17.157	17.171	VV	3790	29574	1.00%	0.031%
411	17.176	17.171	17.180	VV	3525	17591	0.59%	0.018%
412	17.226	17.180	17.246	VV	11183	274304	9.25%	0.284%
413	17.278	17.246	17.296	VV	11724	278533	9.39%	0.288%
414	17.307	17.296	17.327	VV	9208	147424	4.97%	0.152%
415	17.333	17.327	17.350	VV	6144	78257	2.64%	0.081%
416	17.361	17.350	17.366	VV	5938	50678	1.71%	0.052%
417	17.380	17.366	17.390	VV	6273	85853	2.89%	0.089%
418	17.414	17.390	17.422	VV	6742	111933	3.77%	0.116%
419	17.438	17.422	17.447	VV	7313	100395	3.38%	0.104%
420	17.475	17.447	17.510	VV	9612	296449	9.99%	0.306%
421	17.524	17.510	17.537	VV	6989	108950	3.67%	0.113%
422	17.557	17.537	17.562	VV	8678	112885	3.81%	0.117%
423	17.566	17.562	17.573	VV	7793	50084	1.69%	0.052%
424	17.597	17.573	17.637	VV	19317	504310	17.00%	0.521%
425	17.678	17.637	17.700	VV	15730	428451	14.44%	0.443%
426	17.714	17.700	17.723	VV	8502	110541	3.73%	0.114%
427	17.727	17.723	17.744	VV	7757	87882	2.96%	0.091%
428	17.759	17.744	17.763	VV	7531	82408	2.78%	0.085%
429	17.799	17.763	17.826	VV	10439	325263	10.97%	0.336%
430	17.837	17.826	17.845	VV	8929	89093	3.00%	0.092%
431	17.853	17.845	17.870	VV	9649	127695	4.30%	0.132%
432	17.885	17.870	17.900	VV	8370	134980	4.55%	0.140%
433	17.914	17.900	17.920	VV	7813	87833	2.96%	0.091%
434	17.926	17.920	17.941	VV	7483	92765	3.13%	0.096%
435	17.959	17.941	17.964	VV	8391	104789	3.53%	0.108%
436	17.968	17.964	17.978	VV	8118	67248	2.27%	0.070%
437	17.984	17.978	17.991	VV	8205	58965	1.99%	0.061%
438	18.030	17.991	18.036	VV	11305	248130	8.37%	0.257%
439	18.042	18.036	18.049	VV	11490	90230	3.04%	0.093%
440	18.067	18.049	18.074	VV	12771	170156	5.74%	0.176%
441	18.089	18.074	18.098	VV	14415	202696	6.83%	0.210%
442	18.119	18.098	18.143	VV	18749	402718	13.58%	0.416%
443	18.157	18.143	18.162	VV	11788	129690	4.37%	0.134%
444	18.175	18.162	18.180	VV	12825	132369	4.46%	0.137%
445	18.209	18.180	18.224	VV	17050	365504	12.32%	0.378%
446	18.266	18.224	18.290	VV	19539	594834	20.05%	0.615%
447	18.299	18.290	18.313	VV	16018	204977	6.91%	0.212%
448	18.334	18.313	18.339	VV	14332	211609	7.13%	0.219%
449	18.343	18.339	18.360	VV	14255	171934	5.80%	0.178%
450	18.372	18.360	18.385	VV	13541	195090	6.58%	0.202%
451	18.406	18.385	18.413	VV	15009	226976	7.65%	0.235%
452	18.416	18.413	18.423	VV	14606	91812	3.10%	0.095%
453	18.438	18.423	18.447	VV	16961	222680	7.51%	0.230%
454	18.479	18.447	18.519	VV	54121	1400163	47.20%	1.447%
455	18.539	18.519	18.569	VV	28366	657045	22.15%	0.679%
456	18.583	18.569	18.593	VV	17472	232939	7.85%	0.241%

rteres								
457	18.597	18.593	18.601	VV	16642	81328	2.74%	0.084%
458	18.639	18.601	18.663	VV	26205	791992	26.70%	0.819%
459	18.672	18.663	18.705	VV	19834	471086	15.88%	0.487%
460	18.713	18.705	18.722	VV	17587	166111	5.60%	0.172%
461	18.748	18.722	18.772	VV	22382	583479	19.67%	0.603%
462	18.778	18.772	18.791	VV	17644	201773	6.80%	0.209%
463	18.814	18.791	18.821	VV	18489	313421	10.57%	0.324%
464	18.844	18.821	18.852	VV	20531	347263	11.71%	0.359%
465	18.862	18.852	18.869	VV	22557	211191	7.12%	0.218%
466	18.878	18.869	18.903	VV	22024	424607	14.31%	0.439%
467	18.911	18.903	18.917	VV	21473	179218	6.04%	0.185%
468	18.941	18.917	18.969	VV	34356	864001	29.13%	0.893%
469	18.976	18.969	18.985	VV	23328	211857	7.14%	0.219%
470	18.998	18.985	19.005	VV	23180	248743	8.39%	0.257%
471	19.016	19.005	19.022	VV	22028	223236	7.53%	0.231%
472	19.061	19.022	19.077	VV	31080	895611	30.19%	0.926%
473	19.107	19.077	19.134	VV	29094	905833	30.54%	0.936%
474	19.142	19.134	19.148	VV	24969	212709	7.17%	0.220%
475	19.162	19.148	19.168	VV	27412	309253	10.43%	0.320%
476	19.178	19.168	19.196	VV	27698	438370	14.78%	0.453%
477	19.213	19.196	19.227	VV	25983	461719	15.57%	0.477%
478	19.232	19.227	19.239	VV	25912	176882	5.96%	0.183%
479	19.248	19.239	19.256	VV	26111	247679	8.35%	0.256%
480	19.264	19.256	19.274	VV	25027	263537	8.88%	0.272%
481	19.308	19.274	19.336	VV	56960	1501355	50.61%	1.552%
482	19.350	19.336	19.355	VV	38268	407626	13.74%	0.421%
483	19.361	19.355	19.375	VV	39751	440162	14.84%	0.455%
484	19.381	19.375	19.392	VV	32499	308082	10.39%	0.318%
485	19.398	19.392	19.410	VV	33252	340110	11.47%	0.352%
486	19.418	19.410	19.424	VV	32438	261821	8.83%	0.271%
487	19.432	19.424	19.439	VV	33118	282407	9.52%	0.292%
488	19.452	19.439	19.460	VV	34572	418256	14.10%	0.432%
489	19.471	19.460	19.480	VV	38037	426154	14.37%	0.441%
490	19.488	19.480	19.528	VV	36435	939743	31.68%	0.971%
491	19.540	19.528	19.547	VV	32809	362938	12.24%	0.375%
492	19.552	19.547	19.560	VV	31745	236174	7.96%	0.244%
493	19.568	19.560	19.574	VV	30080	229322	7.73%	0.237%
494	19.589	19.574	19.594	VV	31645	367586	12.39%	0.380%
495	19.599	19.594	19.604	VV	31894	182493	6.15%	0.189%
496	19.620	19.604	19.631	VV	34143	529437	17.85%	0.547%
497	19.642	19.631	19.651	VV	33442	375789	12.67%	0.388%
498	19.655	19.651	19.663	VV	32085	216230	7.29%	0.224%
499	19.669	19.663	19.674	VV	31958	215697	7.27%	0.223%
500	19.684	19.674	19.690	VV	34640	310193	10.46%	0.321%
501	19.731	19.690	19.739	VV	36614	989578	33.36%	1.023%
502	19.744	19.739	19.751	VV	35854	241826	8.15%	0.250%
503	19.773	19.751	19.779	VV	38974	614430	20.71%	0.635%
504	19.790	19.779	19.804	VV	37183	535740	18.06%	0.554%
505	19.808	19.804	19.832	VV	35759	558058	18.81%	0.577%
506	19.846	19.832	19.854	VV	39594	472393	15.93%	0.488%
507	19.875	19.854	19.879	VV	37359	531372	17.91%	0.549%
508	19.896	19.879	19.921	VV	38351	919370	30.99%	0.950%
509	19.956	19.921	19.965	VV	40008	985363	33.22%	1.019%

					rteres			
510	19.970	19.965	19.980	VV	41122	349235	11.77%	0.361%
511	19.993	19.980	20.000	VV	41641	500065	16.86%	0.517%
512	20.010	20.000	20.014	VV	44221	354459	11.95%	0.366%
513	20.027	20.014	20.034	VV	47426	535607	18.06%	0.554%
514	20.050	20.034	20.060	VV	45019	683903	23.06%	0.707%
515	20.082	20.060	20.129	VV	59254	2000259	67.43%	2.068%
516	20.134	20.129	20.139	VV	40720	252146	8.50%	0.261%
517	20.149	20.139	20.154	VV	42373	361338	12.18%	0.374%
518	20.161	20.154	20.173	VV	44125	474512	16.00%	0.491%
519	20.185	20.173	20.194	VV	42536	509167	17.17%	0.526%
520	20.206	20.194	20.218	VV	42988	606906	20.46%	0.627%
521	20.226	20.218	20.232	VV	43844	346195	11.67%	0.358%
522	20.258	20.232	20.263	VV	48267	849404	28.64%	0.878%
523	20.270	20.263	20.300	VV	50373	1035856	34.92%	1.071%
524	20.307	20.300	20.317	VV	44317	443123	14.94%	0.458%
525	20.323	20.317	20.328	VV	43861	278446	9.39%	0.288%
526	20.338	20.328	20.350	VV	46165	571205	19.26%	0.591%
527	20.361	20.350	20.365	VV	44877	408866	13.78%	0.423%
528	20.379	20.365	20.383	VV	47866	493431	16.63%	0.510%
529	20.391	20.383	20.414	VV	51179	907561	30.60%	0.938%
530	20.424	20.414	20.429	VV	50224	415804	14.02%	0.430%
531	20.439	20.429	20.448	VV	51817	571253	19.26%	0.591%
532	20.461	20.448	20.468	VV	54838	611184	20.60%	0.632%
533	20.474	20.468	20.478	VV	51832	289057	9.74%	0.299%
534	20.495	20.478	20.499	VV	53874	659286	22.23%	0.682%
535	20.507	20.499	20.512	VV	54801	421850	14.22%	0.436%
536	20.516	20.512	20.537	VV	53673	731371	24.66%	0.756%
537	20.544	20.537	20.555	VV	47631	505846	17.05%	0.523%
538	20.561	20.555	20.568	VV	45915	329450	11.11%	0.341%
539	20.576	20.568	20.582	VV	45555	374454	12.62%	0.387%
540	20.601	20.582	20.614	VV	51852	917269	30.92%	0.948%
541	20.634	20.614	20.653	VV	55903	1192873	40.21%	1.233%
542	20.661	20.653	20.665	VV	49963	340292	11.47%	0.352%
543	20.689	20.665	20.693	VV	57503	928614	31.31%	0.960%
544	20.711	20.693	20.732	VV	64127	1405919	47.40%	1.453%
545	20.749	20.732	20.759	VV	63036	997596	33.63%	1.031%
546	20.763	20.759	20.826	VV	61860	2079928	70.12%	2.150%
547	20.832	20.826	20.839	VV	42459	306370	10.33%	0.317%
548	20.882	20.839	20.887	VV	46569	1168118	39.38%	1.208%
549	20.893	20.887	20.914	VV	46884	699064	23.57%	0.723%
550	20.928	20.914	20.935	VV	43066	531039	17.90%	0.549%
551	20.944	20.935	20.949	VV	43599	358469	12.08%	0.371%
552	20.961	20.949	20.965	VV	46118	412464	13.91%	0.426%
553	20.989	20.965	21.002	VV	49776	1052638	35.49%	1.088%
554	21.010	21.002	21.015	VV	45122	327067	11.03%	0.338%
555	21.025	21.015	21.037	VV	46393	607461	20.48%	0.628%
556	21.045	21.037	21.070	VV	46808	864851	29.16%	0.894%
557	21.078	21.070	21.092	VV	41104	495032	16.69%	0.512%
558	21.097	21.092	21.107	VV	37707	335270	11.30%	0.347%
559	21.114	21.107	21.131	VV	37283	507265	17.10%	0.524%
560	21.138	21.131	21.145	VV	35507	296052	9.98%	0.306%
561	21.156	21.145	21.161	VV	36436	320604	10.81%	0.331%

rteres									
562	21.167	21.161	21.180	VV	35289	374744	12.63%	0.387%	
563	21.199	21.180	21.204	VV	38049	494430	16.67%	0.511%	
564	21.211	21.204	21.221	VV	39110	403334	13.60%	0.417%	
565	21.227	21.221	21.260	VV	38647	824959	27.81%	0.853%	
566	21.265	21.260	21.282	VV	33125	433408	14.61%	0.448%	
567	21.298	21.282	21.309	VV	36850	563234	18.99%	0.582%	
568	21.313	21.309	21.325	VV	33841	296283	9.99%	0.306%	
569	21.328	21.325	21.346	VV	31374	385195	12.99%	0.398%	
570	21.350	21.346	21.367	VV	28976	353183	11.91%	0.365%	
571	21.377	21.367	21.386	VV	29228	301643	10.17%	0.312%	
572	21.397	21.386	21.428	VV	27271	641121	21.61%	0.663%	
573	21.436	21.428	21.441	VV	26200	195274	6.58%	0.202%	
574	21.448	21.441	21.465	VV	28851	393868	13.28%	0.407%	
575	21.469	21.465	21.485	VV	27424	301806	10.17%	0.312%	
576	21.504	21.485	21.517	VV	28109	502718	16.95%	0.520%	
577	21.522	21.517	21.534	VV	27514	255124	8.60%	0.264%	
578	21.541	21.534	21.545	VV	25382	172554	5.82%	0.178%	
579	21.557	21.545	21.562	VV	28866	266584	8.99%	0.276%	
580	21.579	21.562	21.585	VV	31248	387105	13.05%	0.400%	
581	21.591	21.585	21.594	VV	31620	179675	6.06%	0.186%	
582	21.604	21.594	21.609	VV	32867	280185	9.45%	0.290%	
583	21.618	21.609	21.723	VV	33063	1679177	56.61%	1.736%	
584	21.730	21.723	21.741	VV	13867	126674	4.27%	0.131%	
585	21.748	21.741	21.758	VV	11269	104538	3.52%	0.108%	
586	21.763	21.758	21.767	VV	10646	54817	1.85%	0.057%	
587	21.774	21.767	21.781	VV	11929	96375	3.25%	0.100%	
588	21.821	21.781	21.825	VV	18115	363712	12.26%	0.376%	
589	21.847	21.825	21.878	VV	22701	623226	21.01%	0.644%	
590	21.883	21.878	21.920	VV	16198	353161	11.91%	0.365%	
591	21.926	21.920	21.932	VV	11141	71109	2.40%	0.074%	
592	21.943	21.932	21.946	VV	12903	101025	3.41%	0.104%	
593	21.956	21.946	21.960	VV	16498	120153	4.05%	0.124%	
594	21.981	21.960	21.991	VV	23832	375336	12.65%	0.388%	
595	22.004	21.991	22.038	VV	22593	530591	17.89%	0.549%	
596	22.042	22.038	22.078	VV	14947	307525	10.37%	0.318%	
597	22.087	22.078	22.098	VV	10051	108576	3.66%	0.112%	
598	22.114	22.098	22.135	VV	9359	151135	5.10%	0.156%	
599	22.140	22.135	22.151	VV	4325	28961	0.98%	0.030%	
600	22.155	22.151	22.159	VV	2239	8722	0.29%	0.009%	
601	22.168	22.159	22.172	VV	4030	23024	0.78%	0.024%	
602	22.180	22.172	22.196	VV	4186	35420	1.19%	0.037%	
603	22.226	22.196	22.234	VV	4648	67547	2.28%	0.070%	
604	22.247	22.234	22.253	VV	3893	39855	1.34%	0.041%	
605	22.261	22.253	22.290	VV	4875	51664	1.74%	0.053%	

Sum of corrected areas: 96731939

FG102124.M Mon Nov 04 03:04:43 2024

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	10/31/24	
Project:	Rt. 10 Whippany		Date Received:	10/31/24	
Client Sample ID:	RES-BUILDING-PAD-NO-3		SDG No.:	P4663	
Lab Sample ID:	P4663-06		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	91.2	Decanted:
Sample Wt/Vol:	30.07	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014623.D	1	11/01/24 11:35	11/01/24 15:40	PB164602

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	38900		348	3100	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	13.3		37 - 130	67%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014623.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 15:40
Operator : YP\AJ
Sample : P4663-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-3

Integration File: autoint1.e
Quant Time: Nov 04 01:30:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.053	1592065	13.311 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

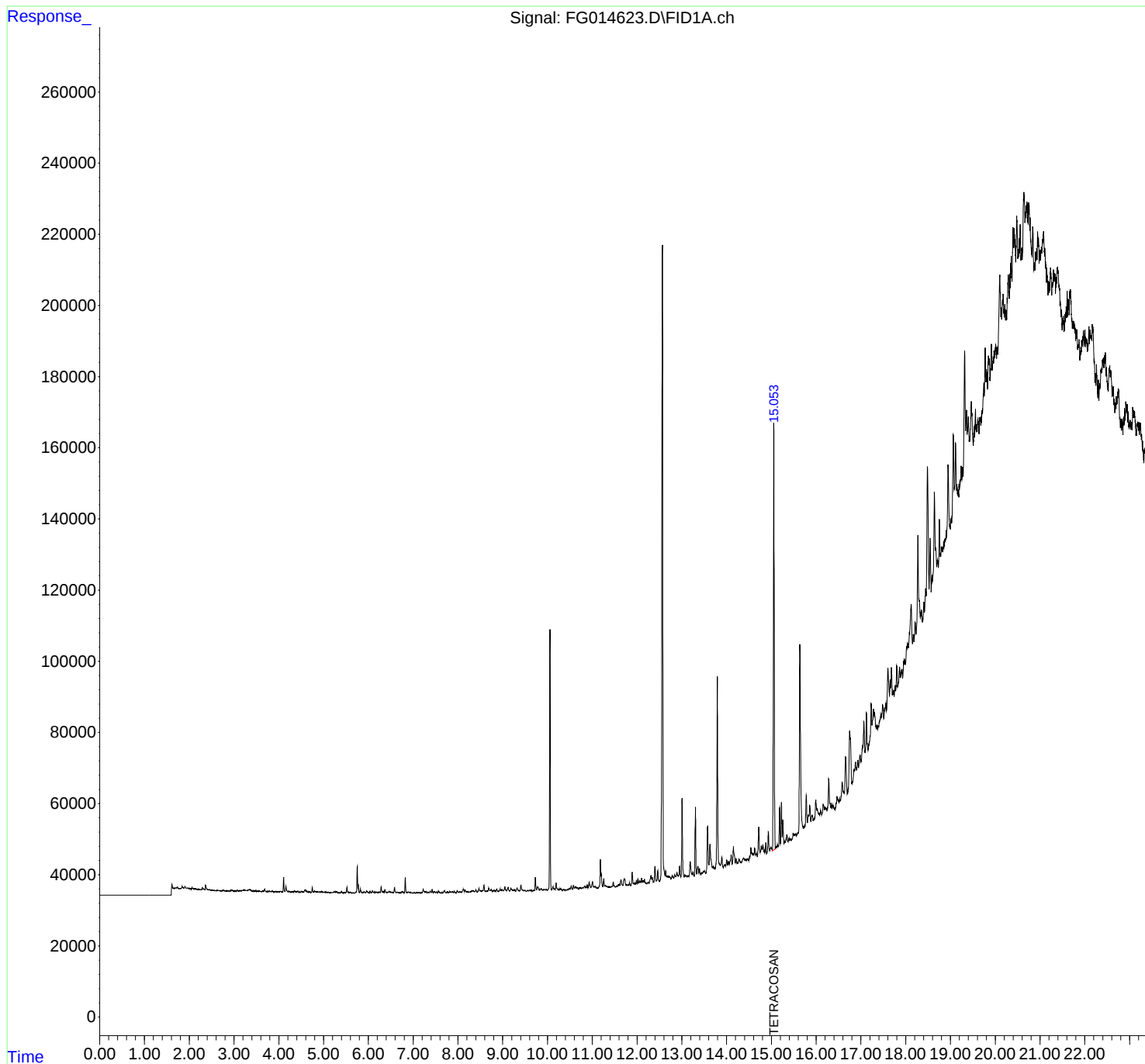
(m)=manual int.

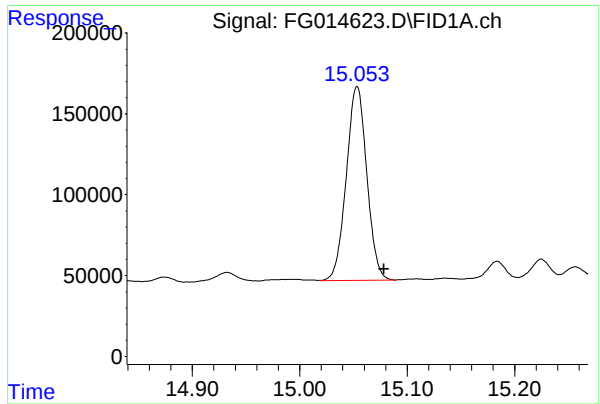
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014623.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 15:40
Operator : YP\AJ
Sample : P4663-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-3

Integration File: autoint1.e
Quant Time: Nov 04 01:30:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.053 min
Delta R.T.: -0.025 min
Response: 1592065
Conc: 13.31 ug/ml

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-3

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014623.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 15:40
Sample : P4663-06
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.959	1.947	1.964	PV	127	758	0.03%	0.001%
2	1.968	1.964	1.997	VV	147	1523	0.05%	0.001%
3	2.006	1.997	2.011	PV	71	287	0.01%	0.000%
4	2.015	2.011	2.023	VV	79	204	0.01%	0.000%
5	2.025	2.023	2.043	PV	50	198	0.01%	0.000%
6	2.062	2.043	2.088	PV	310	5009	0.17%	0.004%
7	2.094	2.088	2.119	VV	209	2643	0.09%	0.002%
8	2.122	2.119	2.133	VV	171	1176	0.04%	0.001%
9	2.138	2.133	2.152	VV	184	1388	0.05%	0.001%
10	2.157	2.152	2.165	VV	113	592	0.02%	0.000%
11	2.170	2.165	2.198	PV	89	891	0.03%	0.001%
12	2.213	2.198	2.222	VV	108	993	0.03%	0.001%
13	2.229	2.222	2.236	VV	100	532	0.02%	0.000%
14	2.241	2.236	2.259	VV	82	423	0.01%	0.000%
15	2.264	2.259	2.279	VV	73	731	0.03%	0.001%
16	2.293	2.279	2.353	VV	591	12032	0.41%	0.009%
17	2.365	2.353	2.403	VV	1371	18450	0.63%	0.014%
18	2.407	2.403	2.418	VV	200	1423	0.05%	0.001%
19	2.428	2.418	2.436	VV	155	1160	0.04%	0.001%
20	2.445	2.436	2.475	VV	249	3148	0.11%	0.002%
21	2.480	2.475	2.518	VV	153	1591	0.05%	0.001%
22	2.524	2.518	2.533	VV	94	529	0.02%	0.000%
23	2.537	2.533	2.544	VV	87	393	0.01%	0.000%
24	2.550	2.544	2.556	VV	87	463	0.02%	0.000%
25	2.561	2.556	2.568	VV	75	281	0.01%	0.000%
26	2.572	2.568	2.591	VV	83	550	0.02%	0.000%
27	2.595	2.591	2.602	PV	92	438	0.02%	0.000%
28	2.605	2.602	2.611	VV	95	367	0.01%	0.000%
29	2.636	2.611	2.645	VV	120	1485	0.05%	0.001%
30	2.650	2.645	2.654	VV	97	367	0.01%	0.000%
31	2.664	2.654	2.677	VV	124	1204	0.04%	0.001%
32	2.680	2.677	2.693	VV	77	592	0.02%	0.000%
33	2.697	2.693	2.704	VV	78	258	0.01%	0.000%
34	2.714	2.704	2.721	PV	126	712	0.02%	0.001%
35	2.758	2.721	2.796	VV	278	6573	0.23%	0.005%
36	2.800	2.796	2.810	VV	95	618	0.02%	0.000%

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37	2.814	2.810	2.834	VV	84	840	0.03%	0.001%
38	2.847	2.834	2.864	VV	164	2095	0.07%	0.002%
39	2.867	2.864	2.873	VV	157	706	0.02%	0.001%
40	2.882	2.873	2.901	VV	151	1047	0.04%	0.001%
41	2.914	2.901	2.922	PV	156	1184	0.04%	0.001%
42	2.945	2.922	2.950	VV	336	4328	0.15%	0.003%
43	2.955	2.950	2.988	VV	309	4239	0.15%	0.003%
44	3.020	2.988	3.040	VV	206	3308	0.11%	0.002%
45	3.043	3.040	3.051	VV	113	528	0.02%	0.000%
46	3.072	3.051	3.086	VV	394	4964	0.17%	0.004%
47	3.091	3.086	3.098	VV	207	1385	0.05%	0.001%
48	3.107	3.098	3.115	VV	220	1905	0.07%	0.001%
49	3.119	3.115	3.132	VV	222	1773	0.06%	0.001%
50	3.141	3.132	3.153	VV	246	2603	0.09%	0.002%
51	3.165	3.153	3.172	VV	214	1947	0.07%	0.001%
52	3.181	3.172	3.198	VV	290	3546	0.12%	0.003%
53	3.213	3.198	3.224	VV	498	6039	0.21%	0.004%
54	3.228	3.224	3.233	VV	378	1780	0.06%	0.001%
55	3.239	3.233	3.290	VV	407	11530	0.40%	0.008%
56	3.298	3.290	3.303	VV	349	2519	0.09%	0.002%
57	3.324	3.303	3.338	VV	520	8748	0.30%	0.006%
58	3.355	3.338	3.424	VV	523	17947	0.62%	0.013%
59	3.428	3.424	3.444	VV	218	2189	0.08%	0.002%
60	3.447	3.444	3.451	VV	174	603	0.02%	0.000%
61	3.465	3.451	3.472	VV	237	1936	0.07%	0.001%
62	3.486	3.472	3.506	VV	283	4704	0.16%	0.003%
63	3.511	3.506	3.528	VV	199	2339	0.08%	0.002%
64	3.532	3.528	3.551	VV	177	2084	0.07%	0.002%
65	3.561	3.551	3.577	VV	230	2791	0.10%	0.002%
66	3.584	3.577	3.603	VV	187	2006	0.07%	0.001%
67	3.607	3.603	3.613	VV	110	586	0.02%	0.000%
68	3.618	3.613	3.626	VV	133	762	0.03%	0.001%
69	3.646	3.626	3.663	VV	235	3805	0.13%	0.003%
70	3.684	3.663	3.709	VV	793	10743	0.37%	0.008%
71	3.716	3.709	3.733	VV	164	1759	0.06%	0.001%
72	3.738	3.733	3.761	VV	123	1477	0.05%	0.001%
73	3.782	3.761	3.797	VV	307	4435	0.15%	0.003%
74	3.802	3.797	3.807	VV	194	931	0.03%	0.001%
75	3.814	3.807	3.820	VV	142	1015	0.03%	0.001%
76	3.826	3.820	3.832	VV	134	808	0.03%	0.001%
77	3.856	3.832	3.875	VV	361	5281	0.18%	0.004%
78	3.880	3.875	3.886	VV	115	578	0.02%	0.000%
79	3.892	3.886	3.896	VV	63	263	0.01%	0.000%
80	3.909	3.896	3.934	PV	166	2410	0.08%	0.002%
81	3.961	3.934	3.974	VV	122	1885	0.06%	0.001%
82	3.980	3.974	3.987	VV	75	423	0.01%	0.000%
83	3.994	3.987	4.001	VV	97	454	0.02%	0.000%
84	4.018	4.001	4.022	VV	143	1128	0.04%	0.001%
85	4.041	4.022	4.073	VV	255	4258	0.15%	0.003%
86	4.076	4.073	4.081	VV	62	194	0.01%	0.000%
87	4.108	4.081	4.137	PV	4170	41446	1.42%	0.031%
88	4.161	4.137	4.200	VV	1593	24113	0.83%	0.018%
89	4.222	4.200	4.271	VV	312	7026	0.24%	0.005%

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90	4.284	4.271	4.291	VV	133	974	0.03%	0.001%	
91	4.303	4.291	4.317	VV	164	2122	0.07%	0.002%	
92	4.349	4.317	4.376	VV	567	8269	0.28%	0.006%	
93	4.388	4.376	4.408	VV	223	3278	0.11%	0.002%	
94	4.422	4.408	4.460	VV	411	6131	0.21%	0.005%	
95	4.468	4.460	4.484	VV	153	1299	0.04%	0.001%	
96	4.489	4.484	4.494	VV	93	335	0.01%	0.000%	
97	4.510	4.494	4.526	VV	365	4145	0.14%	0.003%	
98	4.529	4.526	4.536	VV	142	540	0.02%	0.000%	
99	4.543	4.536	4.556	VV	136	1184	0.04%	0.001%	
100	4.581	4.556	4.586	VV	619	7233	0.25%	0.005%	
101	4.595	4.586	4.611	VV	845	9427	0.32%	0.007%	
102	4.619	4.611	4.643	VV	526	6243	0.21%	0.005%	
103	4.659	4.643	4.671	VV	236	2832	0.10%	0.002%	
104	4.693	4.671	4.722	VV	208	3866	0.13%	0.003%	
105	4.748	4.722	4.777	VV	1479	16658	0.57%	0.012%	
106	4.802	4.777	4.826	VV	436	8126	0.28%	0.006%	
107	4.832	4.826	4.844	VV	299	2567	0.09%	0.002%	
108	4.847	4.844	4.852	VV	198	935	0.03%	0.001%	
109	4.863	4.852	4.878	VV	360	3816	0.13%	0.003%	
110	4.883	4.878	4.887	VV	261	1166	0.04%	0.001%	
111	4.893	4.887	4.900	VV	281	2038	0.07%	0.002%	
112	4.904	4.900	4.919	VV	286	2536	0.09%	0.002%	
113	4.923	4.919	4.930	VV	218	1345	0.05%	0.001%	
114	4.947	4.930	4.981	VV	359	6984	0.24%	0.005%	
115	4.988	4.981	5.002	VV	213	2290	0.08%	0.002%	
116	5.008	5.002	5.013	VV	178	1069	0.04%	0.001%	
117	5.027	5.013	5.034	VV	254	2571	0.09%	0.002%	
118	5.037	5.034	5.047	VV	194	1338	0.05%	0.001%	
119	5.051	5.047	5.063	VV	236	1900	0.07%	0.001%	
120	5.068	5.063	5.077	VV	219	1333	0.05%	0.001%	
121	5.094	5.077	5.126	VV	217	4299	0.15%	0.003%	
122	5.136	5.126	5.149	VV	123	1134	0.04%	0.001%	
123	5.164	5.149	5.177	VV	162	1843	0.06%	0.001%	
124	5.183	5.177	5.191	VV	158	1064	0.04%	0.001%	
125	5.197	5.191	5.210	VV	140	1439	0.05%	0.001%	
126	5.217	5.210	5.225	VV	234	1845	0.06%	0.001%	
127	5.237	5.225	5.253	VV	431	4942	0.17%	0.004%	
128	5.274	5.253	5.323	VV	513	11217	0.39%	0.008%	
129	5.332	5.323	5.343	VV	194	1617	0.06%	0.001%	
130	5.351	5.343	5.355	VV	164	928	0.03%	0.001%	
131	5.363	5.355	5.380	VV	168	2075	0.07%	0.002%	
132	5.399	5.380	5.444	VV	552	8567	0.29%	0.006%	
133	5.463	5.444	5.478	PV	196	2419	0.08%	0.002%	
134	5.521	5.478	5.550	VV	1598	21264	0.73%	0.016%	
135	5.559	5.550	5.576	VV	276	2966	0.10%	0.002%	
136	5.593	5.576	5.616	VV	326	4413	0.15%	0.003%	
137	5.623	5.616	5.633	VV	137	907	0.03%	0.001%	
138	5.654	5.633	5.674	VV	108	1729	0.06%	0.001%	
139	5.724	5.674	5.729	VV	392	5503	0.19%	0.004%	
140	5.752	5.729	5.768	VV	7508	74879	2.57%	0.055%	
141	5.776	5.768	5.805	VV	2319	23462	0.81%	0.017%	

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142	5.822	5.805	5.869	VV	1175	18363	0.63%	0.014%
143	5.904	5.869	5.937	VV	409	10592	0.36%	0.008%
144	5.961	5.937	6.003	VV	730	14757	0.51%	0.011%
145	6.040	6.003	6.072	VV	564	11547	0.40%	0.009%
146	6.091	6.072	6.121	VV	722	11438	0.39%	0.008%
147	6.125	6.121	6.143	VV	275	2935	0.10%	0.002%
148	6.157	6.143	6.179	VV	415	5806	0.20%	0.004%
149	6.195	6.179	6.213	VV	373	5125	0.18%	0.004%
150	6.227	6.213	6.237	VV	288	2836	0.10%	0.002%
151	6.250	6.237	6.265	VV	339	4267	0.15%	0.003%
152	6.286	6.265	6.316	VV	1823	24457	0.84%	0.018%
153	6.337	6.316	6.354	VV	373	7243	0.25%	0.005%
154	6.369	6.354	6.386	VV	988	11483	0.39%	0.008%
155	6.390	6.386	6.418	VV	338	4645	0.16%	0.003%
156	6.438	6.418	6.450	VV	357	4810	0.17%	0.004%
157	6.464	6.450	6.477	VV	588	6636	0.23%	0.005%
158	6.489	6.477	6.509	VV	514	6970	0.24%	0.005%
159	6.518	6.509	6.534	VV	271	3552	0.12%	0.003%
160	6.544	6.534	6.563	VV	280	3354	0.12%	0.002%
161	6.586	6.563	6.625	VV	1644	23554	0.81%	0.017%
162	6.642	6.625	6.667	VV	375	6492	0.22%	0.005%
163	6.673	6.667	6.686	VV	227	2034	0.07%	0.001%
164	6.712	6.686	6.722	VV	245	3177	0.11%	0.002%
165	6.754	6.722	6.805	VV	470	14038	0.48%	0.010%
166	6.825	6.805	6.852	VV	4425	44945	1.54%	0.033%
167	6.855	6.852	6.868	VV	261	1733	0.06%	0.001%
168	6.879	6.868	6.891	VV	349	3977	0.14%	0.003%
169	6.901	6.891	6.933	VV	376	6693	0.23%	0.005%
170	6.941	6.933	6.974	VV	284	4388	0.15%	0.003%
171	6.978	6.974	6.996	VV	127	1087	0.04%	0.001%
172	7.012	6.996	7.018	VV	207	1791	0.06%	0.001%
173	7.031	7.018	7.050	VV	307	3804	0.13%	0.003%
174	7.061	7.050	7.068	PV	142	868	0.03%	0.001%
175	7.078	7.068	7.105	VV	247	3847	0.13%	0.003%
176	7.112	7.105	7.119	VV	129	1037	0.04%	0.001%
177	7.137	7.119	7.143	VV	211	2302	0.08%	0.002%
178	7.155	7.143	7.176	VV	203	2659	0.09%	0.002%
179	7.226	7.176	7.252	VV	1147	20916	0.72%	0.015%
180	7.258	7.252	7.269	VV	522	4250	0.15%	0.003%
181	7.278	7.269	7.314	VV	466	9009	0.31%	0.007%
182	7.327	7.314	7.352	VV	378	5484	0.19%	0.004%
183	7.381	7.352	7.406	VV	593	10005	0.34%	0.007%
184	7.423	7.406	7.453	VV	1030	14300	0.49%	0.011%
185	7.473	7.453	7.510	VV	539	9874	0.34%	0.007%
186	7.522	7.510	7.544	VV	427	5102	0.18%	0.004%
187	7.565	7.544	7.589	VV	712	9562	0.33%	0.007%
188	7.596	7.589	7.615	VV	297	2849	0.10%	0.002%
189	7.623	7.615	7.627	PV	70	297	0.01%	0.000%
190	7.647	7.627	7.669	VV	271	4329	0.15%	0.003%
191	7.699	7.669	7.742	VV	714	14888	0.51%	0.011%
192	7.762	7.742	7.768	VV	361	3841	0.13%	0.003%
193	7.770	7.768	7.784	VV	266	2129	0.07%	0.002%
194	7.789	7.784	7.801	VV	188	1278	0.04%	0.001%

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195	7.815	7.801	7.823	VV	406	3492	0.12%	0.003%
196	7.829	7.823	7.850	VV	342	3714	0.13%	0.003%
197	7.874	7.850	7.900	VV	358	7421	0.25%	0.005%
198	7.917	7.900	7.950	VV	517	6654	0.23%	0.005%
199	7.956	7.950	7.960	VV	65	239	0.01%	0.000%
200	7.988	7.960	8.022	VV	687	10502	0.36%	0.008%
201	8.041	8.022	8.056	VV	385	5069	0.17%	0.004%
202	8.065	8.056	8.087	VV	211	3111	0.11%	0.002%
203	8.124	8.087	8.144	VV	965	19687	0.68%	0.014%
204	8.156	8.144	8.176	VV	832	10855	0.37%	0.008%
205	8.184	8.176	8.215	VV	334	6196	0.21%	0.005%
206	8.231	8.215	8.255	VV	268	3901	0.13%	0.003%
207	8.273	8.255	8.290	VV	350	5039	0.17%	0.004%
208	8.314	8.290	8.327	VV	505	8213	0.28%	0.006%
209	8.340	8.327	8.366	VV	510	9145	0.31%	0.007%
210	8.381	8.366	8.385	VV	319	2861	0.10%	0.002%
211	8.401	8.385	8.435	VV	759	12852	0.44%	0.009%
212	8.471	8.435	8.490	VV	1082	19264	0.66%	0.014%
213	8.499	8.490	8.514	VV	502	6143	0.21%	0.005%
214	8.526	8.514	8.539	VV	446	5455	0.19%	0.004%
215	8.553	8.539	8.559	VV	519	5206	0.18%	0.004%
216	8.582	8.559	8.629	VV	1976	32663	1.12%	0.024%
217	8.654	8.629	8.665	VV	360	6594	0.23%	0.005%
218	8.690	8.665	8.722	VV	1168	21339	0.73%	0.016%
219	8.742	8.722	8.790	VV	813	17463	0.60%	0.013%
220	8.810	8.790	8.826	VV	589	7881	0.27%	0.006%
221	8.848	8.826	8.856	VV	457	7050	0.24%	0.005%
222	8.871	8.856	8.897	VV	859	12457	0.43%	0.009%
223	8.914	8.897	8.921	VV	298	3472	0.12%	0.003%
224	8.943	8.921	8.970	VV	886	14506	0.50%	0.011%
225	8.986	8.970	9.012	VV	790	13135	0.45%	0.010%
226	9.050	9.012	9.070	VV	1456	26821	0.92%	0.020%
227	9.076	9.070	9.095	VV	536	7006	0.24%	0.005%
228	9.123	9.095	9.157	VV	1238	24668	0.85%	0.018%
229	9.184	9.157	9.245	VV	1064	29396	1.01%	0.022%
230	9.261	9.245	9.292	VV	597	10414	0.36%	0.008%
231	9.324	9.292	9.366	VV	1050	23418	0.80%	0.017%
232	9.409	9.366	9.450	VV	1959	35407	1.22%	0.026%
233	9.461	9.450	9.482	VV	389	5244	0.18%	0.004%
234	9.499	9.482	9.522	VV	361	5162	0.18%	0.004%
235	9.528	9.522	9.530	PV	53	181	0.01%	0.000%
236	9.558	9.530	9.574	VV	344	5001	0.17%	0.004%
237	9.591	9.574	9.597	VV	238	2463	0.08%	0.002%
238	9.616	9.597	9.630	VV	340	5732	0.20%	0.004%
239	9.635	9.630	9.659	VV	317	3853	0.13%	0.003%
240	9.668	9.659	9.677	VV	175	1314	0.05%	0.001%
241	9.695	9.677	9.710	VV	358	5067	0.17%	0.004%
242	9.731	9.710	9.759	VV	3908	46972	1.61%	0.035%
243	9.779	9.759	9.818	VV	1217	28363	0.97%	0.021%
244	9.832	9.818	9.838	VV	437	4389	0.15%	0.003%
245	9.859	9.838	9.893	VV	782	16327	0.56%	0.012%
246	9.921	9.893	9.944	VV	491	9436	0.32%	0.007%

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247	9.953	9.944	9.960	VV	357	3275	0.11%	0.002%
248	9.978	9.960	9.997	VV	431	6960	0.24%	0.005%
249	10.057	9.997	10.087	VV	73491	751946	25.83%	0.554%
250	10.125	10.087	10.150	VV	1078	23393	0.80%	0.017%
251	10.156	10.150	10.175	VV	573	6598	0.23%	0.005%
252	10.193	10.175	10.240	VV	2141	34451	1.18%	0.025%
253	10.262	10.240	10.272	VV	510	5321	0.18%	0.004%
254	10.277	10.272	10.281	VV	367	1951	0.07%	0.001%
255	10.296	10.281	10.336	VV	627	9062	0.31%	0.007%
256	10.361	10.336	10.389	PV	257	3764	0.13%	0.003%
257	10.404	10.389	10.423	PV	141	1722	0.06%	0.001%
258	10.431	10.423	10.442	VV	110	867	0.03%	0.001%
259	10.447	10.442	10.451	VV	133	433	0.01%	0.000%
260	10.459	10.451	10.463	VV	161	896	0.03%	0.001%
261	10.488	10.463	10.508	VV	484	7756	0.27%	0.006%
262	10.532	10.508	10.554	VV	1171	17057	0.59%	0.013%
263	10.581	10.554	10.601	VV	1234	19145	0.66%	0.014%
264	10.630	10.601	10.648	VV	926	17908	0.62%	0.013%
265	10.661	10.648	10.692	VV	596	11253	0.39%	0.008%
266	10.732	10.692	10.755	VV	513	13830	0.48%	0.010%
267	10.781	10.755	10.804	VV	494	10231	0.35%	0.008%
268	10.830	10.804	10.851	VV	904	17010	0.58%	0.013%
269	10.886	10.851	10.906	VV	1185	22001	0.76%	0.016%
270	10.932	10.906	10.967	VV	1893	35145	1.21%	0.026%
271	11.006	10.967	11.043	VV	1883	40522	1.39%	0.030%
272	11.062	11.043	11.109	VV	655	13766	0.47%	0.010%
273	11.183	11.109	11.197	VV	8092	101298	3.48%	0.075%
274	11.204	11.197	11.237	VV	3967	44192	1.52%	0.033%
275	11.258	11.237	11.277	VV	2598	33094	1.14%	0.024%
276	11.289	11.277	11.326	VV	717	16225	0.56%	0.012%
277	11.332	11.326	11.354	VV	475	5772	0.20%	0.004%
278	11.361	11.354	11.377	VV	348	3658	0.13%	0.003%
279	11.382	11.377	11.385	VV	211	911	0.03%	0.001%
280	11.389	11.385	11.397	VV	224	1137	0.04%	0.001%
281	11.406	11.397	11.427	VV	232	2998	0.10%	0.002%
282	11.441	11.427	11.453	VV	381	4418	0.15%	0.003%
283	11.470	11.453	11.487	VV	1461	17180	0.59%	0.013%
284	11.492	11.487	11.516	VV	415	4268	0.15%	0.003%
285	11.539	11.516	11.555	PV	313	3948	0.14%	0.003%
286	11.607	11.555	11.621	VV	798	21083	0.72%	0.016%
287	11.640	11.621	11.685	VV	1953	37654	1.29%	0.028%
288	11.720	11.685	11.754	VV	2038	53874	1.85%	0.040%
289	11.763	11.754	11.779	VV	459	4662	0.16%	0.003%
290	11.791	11.779	11.808	VV	401	5545	0.19%	0.004%
291	11.833	11.808	11.860	VV	910	11653	0.40%	0.009%
292	11.892	11.860	11.932	PV	3789	59370	2.04%	0.044%
293	11.947	11.932	11.966	VV	589	9343	0.32%	0.007%
294	11.988	11.966	12.003	VV	1267	15054	0.52%	0.011%
295	12.020	12.003	12.038	VV	1597	19312	0.66%	0.014%
296	12.057	12.038	12.070	VV	1138	15709	0.54%	0.012%
297	12.103	12.070	12.120	VV	1761	30131	1.04%	0.022%
298	12.137	12.120	12.154	VV	1095	15368	0.53%	0.011%
299	12.166	12.154	12.204	VV	1334	18095	0.62%	0.013%

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300	12.212	12.204	12.219	VV	108	653	0.02%	0.000%
301	12.250	12.219	12.269	PV	352	5078	0.17%	0.004%
302	12.311	12.269	12.329	VV	2099	41519	1.43%	0.031%
303	12.343	12.329	12.367	VV	1529	19229	0.66%	0.014%
304	12.400	12.367	12.439	VV	4480	67089	2.30%	0.049%
305	12.462	12.439	12.503	VV	3193	44558	1.53%	0.033%
306	12.567	12.503	12.624	VV	178770	2488793	85.50%	1.833%
307	12.641	12.624	12.657	VV	2786	39883	1.37%	0.029%
308	12.672	12.657	12.683	VV	1362	18800	0.65%	0.014%
309	12.689	12.683	12.703	VV	1134	12227	0.42%	0.009%
310	12.718	12.703	12.763	VV	1033	26963	0.93%	0.020%
311	12.792	12.763	12.819	VV	1026	24855	0.85%	0.018%
312	12.839	12.819	12.867	VV	1322	25516	0.88%	0.019%
313	12.892	12.867	12.915	VV	1987	36378	1.25%	0.027%
314	12.950	12.915	12.979	VV	3425	57758	1.98%	0.043%
315	13.006	12.979	13.057	VV	22534	284297	9.77%	0.209%
316	13.074	13.057	13.103	VV	738	14847	0.51%	0.011%
317	13.109	13.103	13.118	VV	488	3438	0.12%	0.003%
318	13.142	13.118	13.155	VV	475	7235	0.25%	0.005%
319	13.187	13.155	13.235	VV	4312	86484	2.97%	0.064%
320	13.251	13.235	13.277	VV	1344	18293	0.63%	0.013%
321	13.304	13.277	13.330	PV	19336	217592	7.48%	0.160%
322	13.359	13.330	13.378	VV	2528	44145	1.52%	0.033%
323	13.394	13.378	13.425	VV	1731	23968	0.82%	0.018%
324	13.441	13.425	13.457	VV	472	5997	0.21%	0.004%
325	13.480	13.457	13.488	VV	749	9082	0.31%	0.007%
326	13.498	13.488	13.504	VV	672	5927	0.20%	0.004%
327	13.512	13.504	13.530	VV	745	7463	0.26%	0.005%
328	13.575	13.530	13.609	PV	12957	207147	7.12%	0.153%
329	13.628	13.609	13.687	VV	7819	170611	5.86%	0.126%
330	13.705	13.687	13.722	VV	1475	21775	0.75%	0.016%
331	13.733	13.722	13.742	VV	730	7342	0.25%	0.005%
332	13.792	13.742	13.859	VV	54272	725303	24.92%	0.534%
333	13.894	13.859	13.924	VV	3214	59380	2.04%	0.044%
334	13.948	13.924	13.955	PV	730	8399	0.29%	0.006%
335	13.962	13.955	13.982	VV	869	10690	0.37%	0.008%
336	14.005	13.982	14.025	VV	1942	28890	0.99%	0.021%
337	14.042	14.025	14.059	VV	1532	19725	0.68%	0.015%
338	14.103	14.059	14.124	VV	3038	59469	2.04%	0.044%
339	14.153	14.124	14.192	VV	5258	102160	3.51%	0.075%
340	14.212	14.192	14.232	VV	1554	19921	0.68%	0.015%
341	14.241	14.232	14.252	VV	330	2326	0.08%	0.002%
342	14.278	14.252	14.320	VV	1154	24146	0.83%	0.018%
343	14.334	14.320	14.338	VV	179	1696	0.06%	0.001%
344	14.376	14.338	14.408	VV	1125	31137	1.07%	0.023%
345	14.428	14.408	14.435	VV	589	7670	0.26%	0.006%
346	14.441	14.435	14.445	VV	435	2417	0.08%	0.002%
347	14.447	14.445	14.453	VV	453	1770	0.06%	0.001%
348	14.463	14.453	14.475	VV	525	5006	0.17%	0.004%
349	14.482	14.475	14.494	VV	471	2920	0.10%	0.002%
350	14.514	14.494	14.521	PV	1123	9776	0.34%	0.007%
351	14.542	14.521	14.562	VV	3360	55470	1.91%	0.041%

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352	14.567	14.562	14.600	VV	1758	32551	1.12%	0.024%
353	14.626	14.600	14.648	VV	2871	50091	1.72%	0.037%
354	14.666	14.648	14.685	VV	1180	17206	0.59%	0.013%
355	14.717	14.685	14.754	VV	8376	132071	4.54%	0.097%
356	14.774	14.754	14.795	VV	2755	46811	1.61%	0.034%
357	14.811	14.795	14.833	VV	2814	44394	1.53%	0.033%
358	14.841	14.833	14.854	VV	1080	10643	0.37%	0.008%
359	14.874	14.854	14.898	VV	3207	38848	1.33%	0.029%
360	14.932	14.898	14.962	PV	5837	83513	2.87%	0.062%
361	14.990	14.962	15.018	VV	1088	25290	0.87%	0.019%
362	15.053	15.018	15.089	VV	120035	1591897	54.69%	1.172%
363	15.109	15.089	15.120	VV	610	6560	0.23%	0.005%
364	15.135	15.120	15.151	VV	908	8793	0.30%	0.006%
365	15.184	15.151	15.203	VV	10960	128779	4.42%	0.095%
366	15.225	15.203	15.242	VV	12130	143511	4.93%	0.106%
367	15.257	15.242	15.281	VV	7090	84741	2.91%	0.062%
368	15.297	15.281	15.307	VV	729	6561	0.23%	0.005%
369	15.345	15.307	15.372	VV	2189	40456	1.39%	0.030%
370	15.394	15.372	15.407	VV	990	11954	0.41%	0.009%
371	15.422	15.407	15.437	VV	675	8079	0.28%	0.006%
372	15.451	15.437	15.458	PV	213	2077	0.07%	0.002%
373	15.484	15.458	15.502	VV	1710	23900	0.82%	0.018%
374	15.508	15.502	15.515	VV	927	6414	0.22%	0.005%
375	15.530	15.515	15.537	VV	1009	12361	0.42%	0.009%
376	15.539	15.537	15.556	VV	883	6715	0.23%	0.005%
377	15.568	15.556	15.573	VV	718	5079	0.17%	0.004%
378	15.593	15.573	15.601	VV	902	11452	0.39%	0.008%
379	15.636	15.601	15.713	VV	53392	928855	31.91%	0.684%
380	15.738	15.713	15.749	VV	1450	26179	0.90%	0.019%
381	15.777	15.749	15.803	VV	9692	155454	5.34%	0.114%
382	15.824	15.803	15.836	VV	3713	61806	2.12%	0.046%
383	15.856	15.836	15.882	VV	6181	111281	3.82%	0.082%
384	15.908	15.882	15.932	VV	2950	70764	2.43%	0.052%
385	15.939	15.932	15.951	VV	1446	15403	0.53%	0.011%
386	15.991	15.951	16.015	VV	6479	136248	4.68%	0.100%
387	16.022	16.015	16.065	VV	3802	79824	2.74%	0.059%
388	16.073	16.065	16.084	VV	1850	20736	0.71%	0.015%
389	16.100	16.084	16.123	VV	2604	46143	1.59%	0.034%
390	16.157	16.123	16.180	VV	3763	86031	2.96%	0.063%
391	16.192	16.180	16.205	VV	2769	35897	1.23%	0.026%
392	16.211	16.205	16.217	VV	2321	15386	0.53%	0.011%
393	16.224	16.217	16.232	VV	1946	16418	0.56%	0.012%
394	16.248	16.232	16.252	VV	1834	20005	0.69%	0.015%
395	16.280	16.252	16.325	VV	9770	188503	6.48%	0.139%
396	16.336	16.325	16.357	VV	2505	33793	1.16%	0.025%
397	16.376	16.357	16.381	VV	1519	17984	0.62%	0.013%
398	16.384	16.381	16.404	VV	1270	9947	0.34%	0.007%
399	16.408	16.404	16.413	VV	296	1290	0.04%	0.001%
400	16.419	16.413	16.427	VV	619	2672	0.09%	0.002%
401	16.467	16.427	16.492	PV	2859	60709	2.09%	0.045%
402	16.499	16.492	16.510	VV	1515	12698	0.44%	0.009%
403	16.526	16.510	16.538	VV	1402	14879	0.51%	0.011%
404	16.582	16.538	16.614	VV	5109	118398	4.07%	0.087%

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405	16.618	16.614	16.624	VV	1830	10121	0.35%	0.007%
406	16.655	16.624	16.694	VV	11228	222043	7.63%	0.164%
407	16.746	16.694	16.792	PV	16705	434152	14.92%	0.320%
408	16.847	16.792	16.859	VV	4071	87551	3.01%	0.064%
409	16.877	16.859	16.897	VV	5264	92956	3.19%	0.068%
410	16.930	16.897	16.947	VV	4690	107050	3.68%	0.079%
411	16.982	16.947	17.004	VV	5313	135599	4.66%	0.100%
412	17.066	17.004	17.091	VV	13137	359546	12.35%	0.265%
413	17.122	17.091	17.165	VV	14451	304332	10.46%	0.224%
414	17.228	17.165	17.248	VV	14917	385831	13.26%	0.284%
415	17.286	17.248	17.296	VV	12118	301432	10.36%	0.222%
416	17.303	17.296	17.352	VV	10802	260638	8.95%	0.192%
417	17.365	17.352	17.376	VV	5952	81379	2.80%	0.060%
418	17.385	17.376	17.397	VV	5541	63385	2.18%	0.047%
419	17.443	17.397	17.454	VV	7564	218589	7.51%	0.161%
420	17.484	17.454	17.510	VV	9462	257508	8.85%	0.190%
421	17.555	17.510	17.570	VV	8469	252744	8.68%	0.186%
422	17.602	17.570	17.636	VV	17313	472409	16.23%	0.348%
423	17.652	17.636	17.663	VV	13167	183348	6.30%	0.135%
424	17.681	17.663	17.701	VV	15966	281136	9.66%	0.207%
425	17.719	17.701	17.729	VV	8623	133793	4.60%	0.099%
426	17.734	17.729	17.741	VV	8408	56797	1.95%	0.042%
427	17.760	17.741	17.777	VV	9231	175770	6.04%	0.129%
428	17.799	17.777	17.825	VV	14040	302947	10.41%	0.223%
429	17.863	17.825	17.874	VV	12404	297580	10.22%	0.219%
430	17.889	17.874	17.898	VV	10164	134319	4.61%	0.099%
431	17.916	17.898	17.931	VV	10822	200879	6.90%	0.148%
432	17.976	17.931	17.986	VV	12297	360075	12.37%	0.265%
433	18.036	17.986	18.058	VV	15440	589001	20.24%	0.434%
434	18.083	18.058	18.087	VV	17825	276655	9.50%	0.204%
435	18.121	18.087	18.150	VV	25020	758786	26.07%	0.559%
436	18.168	18.150	18.186	VV	15499	303493	10.43%	0.224%
437	18.208	18.186	18.230	VV	18254	423978	14.57%	0.312%
438	18.271	18.230	18.327	VV	41418	1372368	47.15%	1.011%
439	18.337	18.327	18.342	VV	18418	163022	5.60%	0.120%
440	18.352	18.342	18.373	VV	18833	310808	10.68%	0.229%
441	18.377	18.373	18.383	VV	15550	100459	3.45%	0.074%
442	18.406	18.383	18.418	VV	19894	371971	12.78%	0.274%
443	18.444	18.418	18.455	VV	23038	449106	15.43%	0.331%
444	18.485	18.455	18.521	VV	56418	1494219	51.33%	1.100%
445	18.544	18.521	18.569	VV	35174	782613	26.89%	0.576%
446	18.585	18.569	18.596	VV	23881	372123	12.78%	0.274%
447	18.640	18.596	18.662	VV	46188	1251966	43.01%	0.922%
448	18.670	18.662	18.694	VV	29991	523531	17.99%	0.386%
449	18.707	18.694	18.729	VV	25679	517478	17.78%	0.381%
450	18.752	18.729	18.782	VV	36246	922297	31.69%	0.679%
451	18.801	18.782	18.825	VV	27647	693282	23.82%	0.511%
452	18.831	18.825	18.835	VV	26690	149095	5.12%	0.110%
453	18.847	18.835	18.863	VV	28174	468572	16.10%	0.345%
454	18.903	18.863	18.909	VV	30340	771427	26.50%	0.568%
455	18.944	18.909	18.981	VV	47805	1561366	53.64%	1.150%
456	18.985	18.981	18.996	VV	29914	269756	9.27%	0.199%

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457	19.004	18.996	19.009	VV	31347	233086	8.01%	0.172%
458	19.016	19.009	19.028	VV	31175	343405	11.80%	0.253%
459	19.063	19.028	19.094	VV	53555	1647957	56.62%	1.214%
460	19.113	19.094	19.135	VV	50588	1089607	37.43%	0.802%
461	19.145	19.135	19.160	VV	38151	545320	18.73%	0.402%
462	19.165	19.160	19.185	VV	36368	513015	17.62%	0.378%
463	19.195	19.185	19.200	VV	37378	326733	11.22%	0.241%
464	19.208	19.200	19.213	VV	38129	298086	10.24%	0.220%
465	19.237	19.213	19.253	VV	41551	938616	32.25%	0.691%
466	19.270	19.253	19.284	VV	40697	712860	24.49%	0.525%
467	19.315	19.284	19.338	VV	72192	1857030	63.80%	1.368%
468	19.357	19.338	19.373	VV	54913	1071879	36.82%	0.789%
469	19.397	19.373	19.417	VV	52409	1317359	45.26%	0.970%
470	19.423	19.417	19.428	VV	46242	296164	10.17%	0.218%
471	19.465	19.428	19.509	VV	55391	2345371	80.58%	1.727%
472	19.519	19.509	19.524	VV	45379	392109	13.47%	0.289%
473	19.530	19.524	19.539	VV	46834	420824	14.46%	0.310%
474	19.557	19.539	19.576	VV	51329	1043099	35.84%	0.768%
475	19.584	19.576	19.595	VV	46273	510352	17.53%	0.376%
476	19.608	19.595	19.620	VV	47368	713392	24.51%	0.525%
477	19.627	19.620	19.636	VV	46217	436743	15.00%	0.322%
478	19.642	19.636	19.648	VV	47072	306626	10.53%	0.226%
479	19.657	19.648	19.662	VV	46972	408297	14.03%	0.301%
480	19.668	19.662	19.679	VV	46396	462786	15.90%	0.341%
481	19.746	19.679	19.754	VV	54934	2223826	76.40%	1.638%
482	19.774	19.754	19.794	VV	63896	1382215	47.49%	1.018%
483	19.803	19.794	19.825	VV	57629	1036745	35.62%	0.764%
484	19.847	19.825	19.861	VV	60319	1238934	42.56%	0.912%
485	19.868	19.861	19.886	VV	59239	839216	28.83%	0.618%
486	19.912	19.886	19.938	VV	62373	1785468	61.34%	1.315%
487	19.955	19.938	19.962	VV	57632	816508	28.05%	0.601%
488	19.972	19.962	19.982	VV	59005	698896	24.01%	0.515%
489	20.011	19.982	20.028	VV	60487	1601349	55.01%	1.179%
490	20.043	20.028	20.057	VV	58768	1019950	35.04%	0.751%
491	20.061	20.057	20.065	VV	58667	289926	9.96%	0.214%
492	20.100	20.065	20.125	VV	78164	2522093	86.65%	1.857%
493	20.131	20.125	20.144	VV	68437	748249	25.71%	0.551%
494	20.161	20.144	20.167	VV	69972	952233	32.71%	0.701%
495	20.176	20.167	20.193	VV	70955	1077969	37.03%	0.794%
496	20.198	20.193	20.203	VV	66762	395522	13.59%	0.291%
497	20.212	20.203	20.229	VV	67681	1000920	34.39%	0.737%
498	20.236	20.229	20.246	VV	65521	668657	22.97%	0.492%
499	20.266	20.246	20.271	VV	68386	956189	32.85%	0.704%
500	20.292	20.271	20.315	VV	74246	1897044	65.17%	1.397%
501	20.328	20.315	20.333	VV	73966	722165	24.81%	0.532%
502	20.342	20.333	20.347	VV	76533	637580	21.90%	0.470%
503	20.354	20.347	20.374	VV	78324	1187212	40.79%	0.874%
504	20.396	20.374	20.414	VV	85394	1933515	66.43%	1.424%
505	20.422	20.414	20.455	VV	84805	2014580	69.21%	1.484%
506	20.478	20.455	20.502	VV	87247	2273702	78.11%	1.675%
507	20.519	20.502	20.525	VV	77130	1023063	35.15%	0.753%
508	20.537	20.525	20.543	VV	79807	876478	30.11%	0.646%
509	20.556	20.543	20.571	VV	83044	1326503	45.57%	0.977%

					rteres			
510	20.597	20.571	20.604	VV	75995	1443739	49.60%	1.063%
511	20.639	20.604	20.661	VV	90619	2910770	100.00%	2.144%
512	20.671	20.661	20.682	VV	83913	1016359	34.92%	0.749%
513	20.688	20.682	20.695	VV	85549	682464	23.45%	0.503%
514	20.703	20.695	20.716	VV	86582	1060159	36.42%	0.781%
515	20.723	20.716	20.734	VV	85916	900230	30.93%	0.663%
516	20.745	20.734	20.771	VV	85486	1836126	63.08%	1.352%
517	20.778	20.771	20.807	VV	80751	1609419	55.29%	1.185%
518	20.811	20.807	20.823	VV	71766	691127	23.74%	0.509%
519	20.835	20.823	20.859	VV	77032	1560438	53.61%	1.149%
520	20.879	20.859	20.885	VV	65948	1006587	34.58%	0.741%
521	20.901	20.885	20.907	VV	68733	907649	31.18%	0.668%
522	20.911	20.907	20.914	VV	67231	274349	9.43%	0.202%
523	20.925	20.914	20.932	VV	69093	732373	25.16%	0.539%
524	20.945	20.932	20.957	VV	73405	1051538	36.13%	0.774%
525	20.964	20.957	20.985	VV	71491	1156834	39.74%	0.852%
526	20.999	20.985	21.013	VV	67335	1106921	38.03%	0.815%
527	21.029	21.013	21.037	VV	67430	958905	32.94%	0.706%
528	21.057	21.037	21.065	VV	69231	1136342	39.04%	0.837%
529	21.078	21.065	21.100	VV	70917	1428477	49.08%	1.052%
530	21.107	21.100	21.119	VV	65687	713181	24.50%	0.525%
531	21.123	21.119	21.143	VV	61663	837559	28.77%	0.617%
532	21.149	21.143	21.175	VV	59231	1102980	37.89%	0.812%
533	21.182	21.175	21.202	VV	54721	861673	29.60%	0.635%
534	21.207	21.202	21.212	VV	54055	300796	10.33%	0.222%
535	21.235	21.212	21.260	VV	57308	1585622	54.47%	1.168%
536	21.272	21.260	21.279	VV	52740	571449	19.63%	0.421%
537	21.284	21.279	21.289	VV	52451	313564	10.77%	0.231%
538	21.299	21.289	21.312	VV	55795	754019	25.90%	0.555%
539	21.322	21.312	21.330	VV	54359	568243	19.52%	0.419%
540	21.337	21.330	21.346	VV	53804	491635	16.89%	0.362%
541	21.351	21.346	21.353	VV	50922	230196	7.91%	0.170%
542	21.383	21.353	21.404	VV	54818	1621170	55.70%	1.194%
543	21.407	21.404	21.463	VV	53181	1642467	56.43%	1.210%
544	21.467	21.463	21.474	VV	41279	263252	9.04%	0.194%
545	21.479	21.474	21.493	VV	40913	449424	15.44%	0.331%
546	21.517	21.493	21.523	VV	38017	661372	22.72%	0.487%
547	21.525	21.523	21.534	VV	37042	237282	8.15%	0.175%
548	21.540	21.534	21.547	VV	36731	269997	9.28%	0.199%
549	21.560	21.547	21.568	VV	38129	468576	16.10%	0.345%
550	21.584	21.568	21.593	VV	39697	574644	19.74%	0.423%
551	21.605	21.593	21.617	VV	43802	565119	19.41%	0.416%
552	21.625	21.617	21.637	VV	41118	487734	16.76%	0.359%
553	21.642	21.637	21.651	VV	40379	310808	10.68%	0.229%
554	21.662	21.651	21.668	VV	42463	420427	14.44%	0.310%
555	21.678	21.668	21.706	VV	42713	882413	30.32%	0.650%
556	21.710	21.706	21.720	VV	34050	273317	9.39%	0.201%
557	21.731	21.720	21.738	VV	32561	360677	12.39%	0.266%
558	21.747	21.738	21.754	VV	31889	290580	9.98%	0.214%
559	21.757	21.754	21.764	VV	31718	187733	6.45%	0.138%
560	21.768	21.764	21.782	VV	30806	329777	11.33%	0.243%
561	21.789	21.782	21.796	VV	29665	235067	8.08%	0.173%

						rteres		
562	21.807	21.796	21.817	VV	28767	347894	11.95%	0.256%
563	21.823	21.817	21.847	VV	28535	445147	15.29%	0.328%
564	21.870	21.847	21.888	VV	24880	572107	19.65%	0.421%
565	21.897	21.888	21.904	VV	20846	183763	6.31%	0.135%
566	21.911	21.904	21.916	VV	21961	157930	5.43%	0.116%
567	21.919	21.916	21.922	VV	20750	66942	2.30%	0.049%
568	21.929	21.922	21.937	VV	23358	203301	6.98%	0.150%
569	21.941	21.937	21.949	VV	23211	154847	5.32%	0.114%
570	21.972	21.949	21.984	VV	25371	487939	16.76%	0.359%
571	22.003	21.984	22.015	VV	24892	421755	14.49%	0.311%
572	22.025	22.015	22.037	VV	22120	282160	9.69%	0.208%
573	22.043	22.037	22.055	VV	21425	215174	7.39%	0.158%
574	22.064	22.055	22.069	VV	19873	148187	5.09%	0.109%
575	22.091	22.069	22.105	VV	24042	454192	15.60%	0.335%
576	22.115	22.105	22.132	VV	22634	346871	11.92%	0.255%
577	22.137	22.132	22.149	VV	20630	202553	6.96%	0.149%
578	22.152	22.149	22.155	VV	19590	77678	2.67%	0.057%
579	22.166	22.155	22.229	VV	22969	720803	24.76%	0.531%
580	22.238	22.229	22.247	VV	7777	71370	2.45%	0.053%
581	22.261	22.247	22.290	VV	9888	134738	4.63%	0.099%
					Sum of corrected areas:	135779101		

FG102124.M Mon Nov 04 03:05:05 2024

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	10/31/24	
Project:	Rt. 10 Whippany		Date Received:	10/31/24	
Client Sample ID:	RES-BUILDING-PAD-NO-2		SDG No.:	P4663	
Lab Sample ID:	P4663-08		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	91.3	Decanted:
Sample Wt/Vol:	30.03	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014624.D	1	11/01/24 11:35	11/01/24 16:09	PB164602

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	19700		348	3100	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	14.9		37 - 130	75%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014624.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 16:09
Operator : YP\AJ
Sample : P4663-08
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 04 01:30:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.054	1784237	14.918 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014624.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 16:09
Operator : YP\AJ
Sample : P4663-08
Misc :
ALS Vial : 24 Sample Multiplier: 1

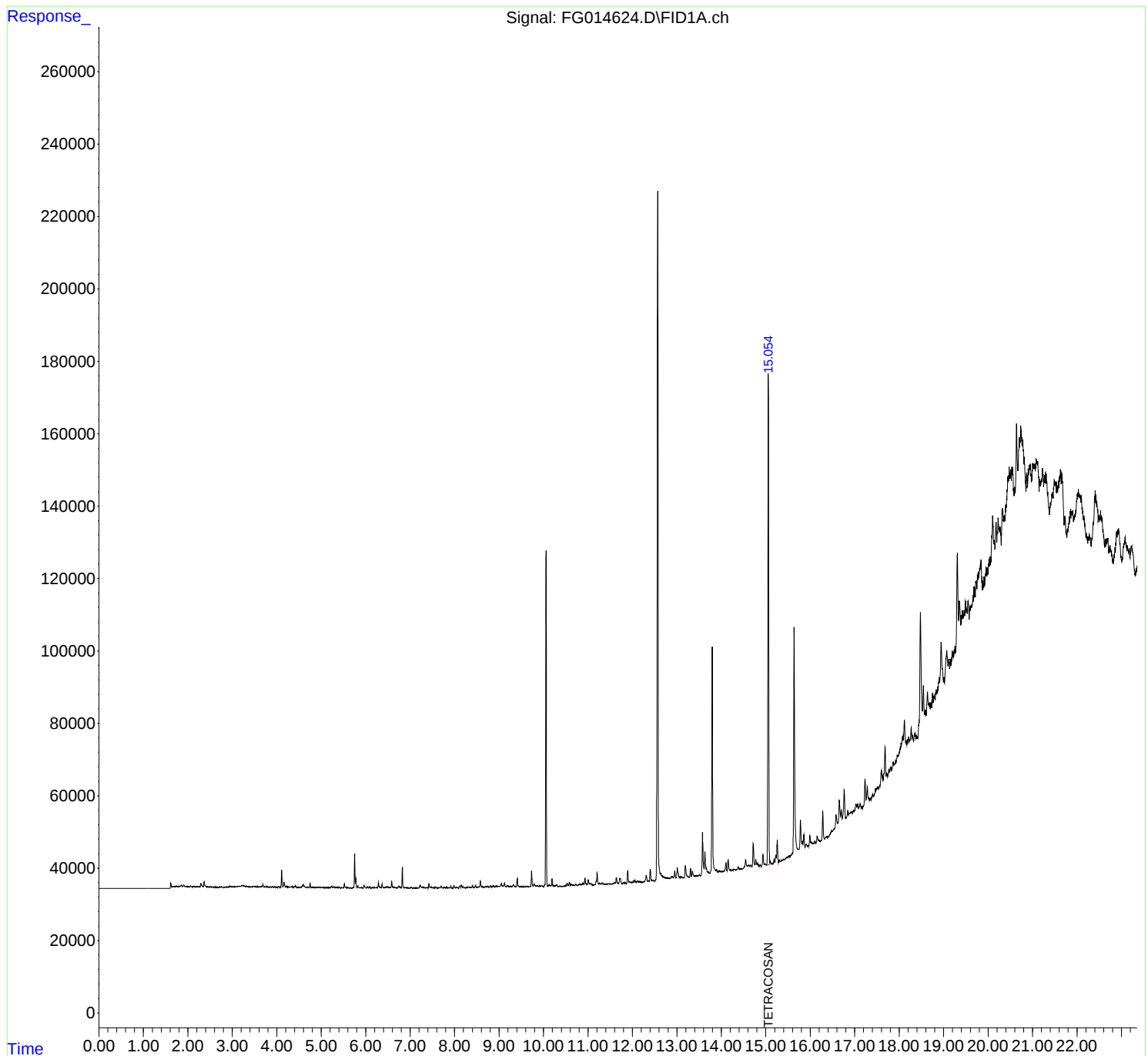
Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2

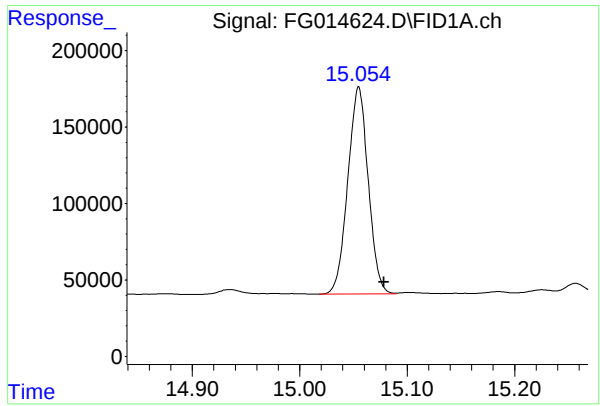
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 04 01:30:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.054 min
Delta R.T.: -0.024 min
Response: 1784237
Conc: 14.92 ug/ml

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Instrument :

FID_G

ClientSampleId :

RES-BUILDING-PAD-NO-2

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :Ankita Jodhani 11/04/2024

rteres

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124.D
Data File : FG014624.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 16:09
Sample : P4663-08
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.967	1.951	1.973	PV	120	972	0.04%	0.001%
2	1.977	1.973	1.989	VV	102	573	0.02%	0.001%
3	1.993	1.989	2.027	PV	97	956	0.04%	0.001%
4	2.041	2.027	2.046	PV	101	570	0.02%	0.001%
5	2.064	2.046	2.078	VV	317	3240	0.12%	0.005%
6	2.082	2.078	2.094	VV	181	1096	0.04%	0.002%
7	2.099	2.094	2.108	PV	110	707	0.03%	0.001%
8	2.125	2.108	2.138	VV	160	2184	0.08%	0.003%
9	2.153	2.138	2.183	VV	149	3008	0.11%	0.004%
10	2.193	2.183	2.198	VV	133	735	0.03%	0.001%
11	2.208	2.198	2.215	VV	115	861	0.03%	0.001%
12	2.218	2.215	2.223	VV	137	457	0.02%	0.001%
13	2.228	2.223	2.254	VV	99	1360	0.05%	0.002%
14	2.264	2.254	2.278	VV	135	1313	0.05%	0.002%
15	2.295	2.278	2.353	VV	1054	22088	0.83%	0.032%
16	2.365	2.353	2.411	VV	1497	22085	0.83%	0.032%
17	2.415	2.411	2.421	VV	249	1132	0.04%	0.002%
18	2.427	2.421	2.446	VV	204	2348	0.09%	0.003%
19	2.449	2.446	2.455	VV	182	778	0.03%	0.001%
20	2.461	2.455	2.483	VV	170	1952	0.07%	0.003%
21	2.488	2.483	2.513	VV	130	1194	0.04%	0.002%
22	2.523	2.513	2.545	VV	128	1328	0.05%	0.002%
23	2.550	2.545	2.555	VV	71	351	0.01%	0.001%
24	2.564	2.555	2.579	VV	125	1017	0.04%	0.001%
25	2.593	2.579	2.621	VV	87	1381	0.05%	0.002%
26	2.628	2.621	2.652	PV	105	1126	0.04%	0.002%
27	2.656	2.652	2.670	PV	83	353	0.01%	0.001%
28	2.674	2.670	2.692	PV	55	455	0.02%	0.001%
29	2.701	2.692	2.707	VV	93	476	0.02%	0.001%
30	2.717	2.707	2.734	VV	133	1487	0.06%	0.002%
31	2.758	2.734	2.773	VV	128	2333	0.09%	0.003%
32	2.777	2.773	2.805	VV	97	1530	0.06%	0.002%
33	2.812	2.805	2.837	VV	109	1445	0.05%	0.002%
34	2.846	2.837	2.858	VV	105	1044	0.04%	0.001%
35	2.872	2.858	2.902	VV	140	2786	0.10%	0.004%
36	2.911	2.902	2.920	VV	206	1688	0.06%	0.002%

37	2.922	2.920	2.926	VV	208	571	0.02%	0.001%
38	2.947	2.926	2.977	VV	337	7492		
39	2.981	2.977	3.007	VV	208	3111		
40	3.012	3.007	3.019	VV	228	1533		
41	3.023	3.019	3.034	VV	256	1889		
42	3.041	3.034	3.044	VV	197	1072		
43	3.054	3.044	3.057	VV	195	1369	0.05%	0.002%
44	3.072	3.057	3.097	VV	311	5947	0.22%	0.009%
45	3.112	3.097	3.123	VV	275	3929	0.15%	0.006%
46	3.129	3.123	3.137	VV	286	2258	0.09%	0.003%
47	3.147	3.137	3.161	VV	342	4290	0.16%	0.006%
48	3.188	3.161	3.195	VV	371	6729	0.25%	0.010%
49	3.208	3.195	3.232	VV	668	11743	0.44%	0.017%
50	3.238	3.232	3.320	VV	526	21660	0.82%	0.031%
51	3.324	3.320	3.364	VV	396	7561	0.28%	0.011%
52	3.368	3.364	3.385	VV	260	2882	0.11%	0.004%
53	3.392	3.385	3.407	VV	245	2789	0.11%	0.004%
54	3.415	3.407	3.430	VV	263	3024	0.11%	0.004%
55	3.435	3.430	3.457	VV	267	3705	0.14%	0.005%
56	3.470	3.457	3.504	VV	417	9031	0.34%	0.013%
57	3.515	3.504	3.543	VV	347	6582	0.25%	0.009%
58	3.548	3.543	3.567	VV	334	3986	0.15%	0.006%
59	3.570	3.567	3.574	VV	295	1172	0.04%	0.002%
60	3.577	3.574	3.599	VV	288	3640	0.14%	0.005%
61	3.604	3.599	3.614	VV	273	2073	0.08%	0.003%
62	3.622	3.614	3.627	VV	288	1949	0.07%	0.003%
63	3.641	3.627	3.654	VV	316	4430	0.17%	0.006%
64	3.658	3.654	3.666	VV	257	1773	0.07%	0.003%
65	3.684	3.666	3.717	VV	800	13688	0.52%	0.020%
66	3.725	3.717	3.741	VV	273	3412	0.13%	0.005%
67	3.752	3.741	3.763	VV	251	2962	0.11%	0.004%
68	3.783	3.763	3.798	VV	336	5591	0.21%	0.008%
69	3.803	3.798	3.811	VV	246	1693	0.06%	0.002%
70	3.821	3.811	3.830	VV	235	2370	0.09%	0.003%
71	3.834	3.830	3.839	VV	225	1012	0.04%	0.001%
72	3.844	3.839	3.852	VV	198	1432	0.05%	0.002%
73	3.857	3.852	3.879	VV	245	3264	0.12%	0.005%
74	3.899	3.879	3.903	VV	203	2609	0.10%	0.004%
75	3.910	3.903	3.934	VV	256	3836	0.14%	0.006%
76	3.939	3.934	3.957	VV	217	2661	0.10%	0.004%
77	3.961	3.957	4.002	VV	227	4767	0.18%	0.007%
78	4.009	4.002	4.014	VV	218	1218	0.05%	0.002%
79	4.018	4.014	4.021	VV	193	742	0.03%	0.001%
80	4.040	4.021	4.074	VV	395	7968	0.30%	0.011%
81	4.110	4.074	4.136	VV	4894	51222	1.93%	0.073%
82	4.165	4.136	4.212	VV	1563	27803	1.05%	0.040%
83	4.225	4.212	4.254	VV	354	7006	0.26%	0.010%
84	4.257	4.254	4.263	VV	244	1092	0.04%	0.002%
85	4.281	4.263	4.296	VV	228	4060	0.15%	0.006%
86	4.303	4.296	4.328	VV	268	4257	0.16%	0.006%
87	4.349	4.328	4.367	VV	450	7266	0.27%	0.010%
88	4.420	4.367	4.454	VV	569	15156	0.57%	0.022%
89	4.458	4.454	4.477	VV	199	2497	0.09%	0.004%

Instrument :

FID_G

ClientSampleId :

RES-BUILDING-PAD-NO-2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :Ankita Jodhani 11/04/2024

					rters			
90	4.480	4.477	4.517	VV	223	3776	0.14%	0.005%
91	4.522	4.517	4.532	VV	161	1197		
92	4.539	4.532	4.549	VV	243	2001		
93	4.579	4.549	4.585	VV	704	9417		
94	4.596	4.585	4.612	VV	1038	12098		
95	4.622	4.612	4.641	VV	566	6943		
96	4.647	4.641	4.654	VV	220	1551	0.06%	0.002%
97	4.658	4.654	4.670	VV	242	1965	0.07%	0.003%
98	4.674	4.670	4.687	VV	229	1916	0.07%	0.003%
99	4.699	4.687	4.725	VV	241	3973	0.15%	0.006%
100	4.750	4.725	4.781	VV	1332	16155	0.61%	0.023%
101	4.796	4.781	4.811	VV	266	3570	0.13%	0.005%
102	4.816	4.811	4.820	VV	223	1000	0.04%	0.001%
103	4.822	4.820	4.827	VV	208	848	0.03%	0.001%
104	4.829	4.827	4.845	VV	210	1746	0.07%	0.003%
105	4.849	4.845	4.859	VV	163	1030	0.04%	0.001%
106	4.891	4.859	4.899	VV	182	3371	0.13%	0.005%
107	4.905	4.899	4.930	VV	193	2787	0.10%	0.004%
108	4.953	4.930	4.984	VV	305	6518	0.25%	0.009%
109	4.990	4.984	4.995	VV	173	1035	0.04%	0.001%
110	5.002	4.995	5.016	VV	200	1992	0.08%	0.003%
111	5.021	5.016	5.038	VV	152	1741	0.07%	0.002%
112	5.044	5.038	5.054	VV	152	1187	0.04%	0.002%
113	5.057	5.054	5.072	VV	167	1264	0.05%	0.002%
114	5.078	5.072	5.093	VV	142	1231	0.05%	0.002%
115	5.107	5.093	5.112	VV	152	1146	0.04%	0.002%
116	5.116	5.112	5.119	VV	101	357	0.01%	0.001%
117	5.127	5.119	5.154	VV	139	2088	0.08%	0.003%
118	5.159	5.154	5.162	VV	142	577	0.02%	0.001%
119	5.174	5.162	5.207	VV	193	3554	0.13%	0.005%
120	5.239	5.207	5.260	VV	497	8787	0.33%	0.013%
121	5.276	5.260	5.299	VV	367	5731	0.22%	0.008%
122	5.303	5.299	5.321	VV	233	2254	0.08%	0.003%
123	5.333	5.321	5.370	VV	210	4384	0.17%	0.006%
124	5.400	5.370	5.418	VV	409	6362	0.24%	0.009%
125	5.422	5.418	5.440	VV	127	1414	0.05%	0.002%
126	5.448	5.440	5.451	VV	124	662	0.02%	0.001%
127	5.464	5.451	5.474	VV	164	1702	0.06%	0.002%
128	5.484	5.474	5.492	VV	137	1174	0.04%	0.002%
129	5.522	5.492	5.550	VV	1305	15828	0.60%	0.023%
130	5.558	5.550	5.582	VV	257	3019	0.11%	0.004%
131	5.589	5.582	5.609	VV	197	2263	0.09%	0.003%
132	5.613	5.609	5.630	VV	100	770	0.03%	0.001%
133	5.644	5.630	5.649	PV	82	571	0.02%	0.001%
134	5.654	5.649	5.662	VV	98	549	0.02%	0.001%
135	5.667	5.662	5.675	VV	109	535	0.02%	0.001%
136	5.689	5.675	5.696	VV	79	831	0.03%	0.001%
137	5.721	5.696	5.730	VV	259	3264	0.12%	0.005%
138	5.752	5.730	5.769	VV	9562	90650	3.41%	0.130%
139	5.779	5.769	5.805	VV	2575	25019	0.94%	0.036%
140	5.825	5.805	5.862	VV	666	10045	0.38%	0.014%
141	5.867	5.862	5.873	VV	125	710	0.03%	0.001%

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0.14% 0.005%

Manual IntegrationsAPPROVED

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142	5.878	5.873	5.882	VV	136	615	0.02%	0.001%
143	5.910	5.882	5.934	VV	239	4386		
144	5.964	5.934	6.025	VV	849	16147		
145	6.039	6.025	6.065	VV	470	6124		
146	6.091	6.065	6.114	VV	530	8323		
147	6.119	6.114	6.126	VV	156	1008		
148	6.131	6.126	6.136	VV	170	724	0.03%	0.001%
149	6.160	6.136	6.183	VV	273	4802	0.18%	0.007%
150	6.196	6.183	6.217	VV	280	3266	0.12%	0.005%
151	6.230	6.217	6.240	VV	214	2138	0.08%	0.003%
152	6.255	6.240	6.268	VV	239	2985	0.11%	0.004%
153	6.288	6.268	6.323	VV	1656	21405	0.81%	0.031%
154	6.332	6.323	6.352	VV	314	4165	0.16%	0.006%
155	6.369	6.352	6.423	VV	1109	16829	0.63%	0.024%
156	6.442	6.423	6.451	VV	322	3688	0.14%	0.005%
157	6.467	6.451	6.478	VV	479	5863	0.22%	0.008%
158	6.490	6.478	6.504	VV	443	5041	0.19%	0.007%
159	6.507	6.504	6.529	VV	290	3178	0.12%	0.005%
160	6.541	6.529	6.563	VV	298	4835	0.18%	0.007%
161	6.587	6.563	6.623	VV	1895	26207	0.99%	0.038%
162	6.638	6.623	6.659	VV	290	4788	0.18%	0.007%
163	6.666	6.659	6.685	VV	259	2777	0.10%	0.004%
164	6.702	6.685	6.709	VV	184	2215	0.08%	0.003%
165	6.747	6.709	6.752	VV	446	7514	0.28%	0.011%
166	6.758	6.752	6.804	VV	476	8707	0.33%	0.012%
167	6.826	6.804	6.865	VV	5718	57120	2.15%	0.082%
168	6.878	6.865	6.892	VV	303	3829	0.14%	0.005%
169	6.898	6.892	6.903	VV	210	1326	0.05%	0.002%
170	6.910	6.903	6.929	VV	227	2308	0.09%	0.003%
171	6.938	6.929	6.970	VV	181	3362	0.13%	0.005%
172	6.980	6.970	6.998	VV	124	1540	0.06%	0.002%
173	7.014	6.998	7.020	VV	201	1726	0.07%	0.002%
174	7.029	7.020	7.060	VV	340	3990	0.15%	0.006%
175	7.084	7.060	7.099	PV	158	2309	0.09%	0.003%
176	7.103	7.099	7.123	VV	133	1303	0.05%	0.002%
177	7.133	7.123	7.146	VV	153	1424	0.05%	0.002%
178	7.149	7.146	7.163	VV	109	664	0.02%	0.001%
179	7.172	7.163	7.195	VV	91	1100	0.04%	0.002%
180	7.229	7.195	7.265	VV	919	18227	0.69%	0.026%
181	7.283	7.265	7.309	VV	350	6970	0.26%	0.010%
182	7.325	7.309	7.350	VV	249	3890	0.15%	0.006%
183	7.378	7.350	7.382	VV	281	3339	0.13%	0.005%
184	7.385	7.382	7.407	VV	270	2501	0.09%	0.004%
185	7.423	7.407	7.459	VV	1220	15944	0.60%	0.023%
186	7.472	7.459	7.511	VV	411	6188	0.23%	0.009%
187	7.530	7.511	7.550	VV	208	2821	0.11%	0.004%
188	7.566	7.550	7.592	VV	428	5863	0.22%	0.008%
189	7.596	7.592	7.602	VV	142	680	0.03%	0.001%
190	7.607	7.602	7.617	VV	90	636	0.02%	0.001%
191	7.654	7.617	7.674	VV	242	4067	0.15%	0.006%
192	7.698	7.674	7.731	VV	649	9184	0.35%	0.013%
193	7.763	7.731	7.798	VV	273	5429	0.20%	0.008%
194	7.814	7.798	7.847	VV	434	6969	0.26%	0.010%

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195	7.877	7.847	7.891	VV	209	3259	0.12%	0.005%
196	7.917	7.891	7.939	VV	585	5969		
197	7.961	7.939	7.966	PV	80	732		
198	7.987	7.966	8.022	VV	705	8926		
199	8.042	8.022	8.069	VV	305	4307		
200	8.077	8.069	8.089	VV	126	771		
201	8.122	8.089	8.144	VV	632	12082	0.45%	0.017%
202	8.156	8.144	8.175	VV	837	10409	0.39%	0.015%
203	8.186	8.175	8.217	VV	336	4216	0.16%	0.006%
204	8.229	8.217	8.241	VV	185	1615	0.06%	0.002%
205	8.245	8.241	8.251	VV	87	331	0.01%	0.000%
206	8.275	8.251	8.292	PV	278	3738	0.14%	0.005%
207	8.312	8.292	8.347	VV	292	7206	0.27%	0.010%
208	8.358	8.347	8.366	VV	164	1311	0.05%	0.002%
209	8.372	8.366	8.382	VV	123	903	0.03%	0.001%
210	8.402	8.382	8.435	VV	625	8144	0.31%	0.012%
211	8.471	8.435	8.502	VV	770	11556	0.44%	0.017%
212	8.520	8.502	8.532	VV	210	3067	0.12%	0.004%
213	8.538	8.532	8.542	VV	205	1085	0.04%	0.002%
214	8.551	8.542	8.556	VV	291	1884	0.07%	0.003%
215	8.582	8.556	8.619	VV	1861	26711	1.01%	0.038%
216	8.632	8.619	8.651	VV	306	4242	0.16%	0.006%
217	8.659	8.651	8.672	VV	166	1698	0.06%	0.002%
218	8.695	8.672	8.714	VV	363	6893	0.26%	0.010%
219	8.719	8.714	8.724	VV	288	1602	0.06%	0.002%
220	8.744	8.724	8.794	VV	456	10126	0.38%	0.015%
221	8.811	8.794	8.836	VV	544	7557	0.28%	0.011%
222	8.849	8.836	8.857	VV	390	3552	0.13%	0.005%
223	8.874	8.857	8.902	VV	624	9783	0.37%	0.014%
224	8.914	8.902	8.929	VV	266	3560	0.13%	0.005%
225	8.946	8.929	8.973	VV	566	9201	0.35%	0.013%
226	8.990	8.973	9.009	VV	362	6589	0.25%	0.009%
227	9.014	9.009	9.025	VV	350	3045	0.11%	0.004%
228	9.052	9.025	9.092	VV	1060	22650	0.85%	0.032%
229	9.122	9.092	9.160	VV	1237	22319	0.84%	0.032%
230	9.183	9.160	9.195	VV	467	7321	0.28%	0.010%
231	9.200	9.195	9.224	VV	388	5200	0.20%	0.007%
232	9.235	9.224	9.246	VV	272	2982	0.11%	0.004%
233	9.252	9.246	9.257	VV	240	1334	0.05%	0.002%
234	9.268	9.257	9.289	VV	344	4434	0.17%	0.006%
235	9.323	9.289	9.372	VV	689	18487	0.70%	0.027%
236	9.411	9.372	9.451	VV	2372	34110	1.28%	0.049%
237	9.462	9.451	9.477	VV	212	2684	0.10%	0.004%
238	9.499	9.477	9.521	VV	292	4240	0.16%	0.006%
239	9.554	9.521	9.580	VV	205	3517	0.13%	0.005%
240	9.612	9.580	9.639	VV	241	5721	0.22%	0.008%
241	9.646	9.639	9.660	VV	213	2017	0.08%	0.003%
242	9.693	9.660	9.706	VV	193	3585	0.13%	0.005%
243	9.732	9.706	9.762	VV	4488	53401	2.01%	0.077%
244	9.792	9.762	9.822	VV	932	19379	0.73%	0.028%
245	9.834	9.822	9.843	VV	311	3410	0.13%	0.005%
246	9.867	9.843	9.892	VV	450	9072	0.34%	0.013%

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Manual IntegrationsAPPROVED

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247	9.897	9.892	9.901	VV	196	864	0.03%	0.001%
248	9.918	9.901	9.935	VV	305	4919	0.03%	0.001%
249	9.949	9.935	9.962	VV	294	3901	0.03%	0.001%
250	9.972	9.962	10.002	VV	345	3663	0.03%	0.001%
251	10.058	10.002	10.094	VV	92750	927259	34.00%	0.001%
252	10.125	10.094	10.141	VV	626	10936	0.03%	0.001%
253	10.151	10.141	10.170	VV	352	5706	0.21%	0.008%
254	10.193	10.170	10.240	VV	2261	30778	1.16%	0.044%
255	10.297	10.240	10.317	VV	535	12488	0.47%	0.018%
256	10.322	10.317	10.343	VV	144	1427	0.05%	0.002%
257	10.365	10.343	10.371	VV	165	1617	0.06%	0.002%
258	10.375	10.371	10.393	VV	134	1138	0.04%	0.002%
259	10.399	10.393	10.402	PV	93	281	0.01%	0.000%
260	10.407	10.402	10.418	VV	122	841	0.03%	0.001%
261	10.423	10.418	10.428	VV	112	432	0.02%	0.001%
262	10.438	10.428	10.456	VV	142	1500	0.06%	0.002%
263	10.470	10.456	10.480	VV	158	1742	0.07%	0.002%
264	10.492	10.480	10.512	VV	311	4275	0.16%	0.006%
265	10.534	10.512	10.555	VV	881	12758	0.48%	0.018%
266	10.583	10.555	10.607	VV	1144	18809	0.71%	0.027%
267	10.631	10.607	10.653	VV	534	10760	0.41%	0.015%
268	10.674	10.653	10.694	VV	360	6434	0.24%	0.009%
269	10.726	10.694	10.730	VV	441	5723	0.22%	0.008%
270	10.734	10.730	10.766	VV	418	5986	0.23%	0.009%
271	10.794	10.766	10.809	VV	387	7368	0.28%	0.011%
272	10.817	10.809	10.827	VV	565	5144	0.19%	0.007%
273	10.833	10.827	10.853	VV	462	5523	0.21%	0.008%
274	10.885	10.853	10.904	VV	808	14146	0.53%	0.020%
275	10.934	10.904	10.975	VV	2111	35515	1.34%	0.051%
276	11.004	10.975	11.042	VV	1536	29911	1.13%	0.043%
277	11.057	11.042	11.114	VV	561	13684	0.52%	0.020%
278	11.154	11.114	11.159	PV	212	3152	0.12%	0.005%
279	11.206	11.159	11.240	VV	3509	57062	2.15%	0.082%
280	11.260	11.240	11.290	VV	645	11319	0.43%	0.016%
281	11.310	11.290	11.317	VV	493	5826	0.22%	0.008%
282	11.328	11.317	11.349	VV	461	6559	0.25%	0.009%
283	11.360	11.349	11.373	VV	259	2788	0.10%	0.004%
284	11.390	11.373	11.430	VV	233	4840	0.18%	0.007%
285	11.448	11.430	11.459	PV	273	3158	0.12%	0.005%
286	11.469	11.459	11.483	VV	212	2357	0.09%	0.003%
287	11.495	11.483	11.523	VV	228	3302	0.12%	0.005%
288	11.543	11.523	11.557	VV	226	2661	0.10%	0.004%
289	11.584	11.557	11.591	VV	384	5322	0.20%	0.008%
290	11.607	11.591	11.620	VV	417	6396	0.24%	0.009%
291	11.639	11.620	11.683	VV	1871	28727	1.08%	0.041%
292	11.719	11.683	11.774	VV	1608	39085	1.47%	0.056%
293	11.798	11.774	11.817	VV	434	5864	0.22%	0.008%
294	11.834	11.817	11.860	VV	472	5715	0.22%	0.008%
295	11.894	11.860	11.923	PV	3516	47900	1.80%	0.069%
296	11.945	11.923	11.974	VV	491	10650	0.40%	0.015%
297	11.992	11.974	12.008	VV	335	4621	0.17%	0.007%
298	12.023	12.008	12.038	VV	472	6278	0.24%	0.009%
299	12.055	12.038	12.083	VV	863	13488	0.51%	0.019%

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300	12.106	12.083	12.114	VV	444	5989	0.23%	0.009%
301	12.124	12.114	12.153	VV	555	7785		
302	12.164	12.153	12.184	VV	364	4187		
303	12.190	12.184	12.214	VV	161	1405		
304	12.250	12.214	12.272	VV	217	3821		
305	12.311	12.272	12.346	VV	1853	37473		
306	12.354	12.346	12.361	VV	268	2018	0.08%	0.003%
307	12.365	12.361	12.378	VV	273	2124	0.08%	0.003%
308	12.401	12.378	12.441	VV	3405	48452	1.82%	0.069%
309	12.472	12.441	12.502	VV	387	7886	0.30%	0.011%
310	12.568	12.502	12.625	PV	190697	2655646	100.00%	3.808%
311	12.637	12.625	12.657	VV	2089	34875	1.31%	0.050%
312	12.668	12.657	12.682	VV	1390	18658	0.70%	0.027%
313	12.688	12.682	12.715	VV	1003	17982	0.68%	0.026%
314	12.720	12.715	12.757	VV	879	17797	0.67%	0.026%
315	12.773	12.757	12.793	VV	557	10313	0.39%	0.015%
316	12.807	12.793	12.821	VV	471	7246	0.27%	0.010%
317	12.838	12.821	12.855	VV	458	7958	0.30%	0.011%
318	12.893	12.855	12.914	VV	854	22016	0.83%	0.032%
319	12.919	12.914	12.925	VV	522	3375	0.13%	0.005%
320	12.951	12.925	12.984	VV	2304	37158	1.40%	0.053%
321	13.009	12.984	13.054	VV	2965	58945	2.22%	0.085%
322	13.072	13.054	13.077	VV	449	5118	0.19%	0.007%
323	13.081	13.077	13.087	VV	393	2244	0.08%	0.003%
324	13.092	13.087	13.137	VV	477	7485	0.28%	0.011%
325	13.144	13.137	13.157	VV	161	1203	0.05%	0.002%
326	13.189	13.157	13.260	PV	3445	63514	2.39%	0.091%
327	13.271	13.260	13.280	VV	151	1276	0.05%	0.002%
328	13.306	13.280	13.327	PV	2459	27324	1.03%	0.039%
329	13.348	13.327	13.387	VV	1526	26809	1.01%	0.038%
330	13.397	13.387	13.417	VV	340	3640	0.14%	0.005%
331	13.422	13.417	13.426	VV	157	787	0.03%	0.001%
332	13.448	13.426	13.454	VV	241	2738	0.10%	0.004%
333	13.458	13.454	13.469	VV	230	1508	0.06%	0.002%
334	13.485	13.469	13.492	VV	210	2298	0.09%	0.003%
335	13.511	13.492	13.528	VV	374	4765	0.18%	0.007%
336	13.577	13.528	13.610	PV	11956	184296	6.94%	0.264%
337	13.631	13.610	13.696	VV	6372	132654	5.00%	0.190%
338	13.710	13.696	13.745	VV	848	16512	0.62%	0.024%
339	13.793	13.745	13.866	VV	62754	837607	31.54%	1.201%
340	13.870	13.866	13.885	VV	933	10250	0.39%	0.015%
341	13.895	13.885	13.935	VV	996	18287	0.69%	0.026%
342	13.971	13.935	13.983	VV	562	12718	0.48%	0.018%
343	14.007	13.983	14.030	VV	463	8981	0.34%	0.013%
344	14.044	14.030	14.055	VV	341	3493	0.13%	0.005%
345	14.104	14.055	14.125	VV	2635	44562	1.68%	0.064%
346	14.153	14.125	14.196	VV	3317	52285	1.97%	0.075%
347	14.214	14.196	14.228	VV	500	5752	0.22%	0.008%
348	14.236	14.228	14.240	VV	129	690	0.03%	0.001%
349	14.248	14.240	14.260	VV	213	1637	0.06%	0.002%
350	14.278	14.260	14.294	VV	472	6666	0.25%	0.010%
351	14.299	14.294	14.319	VV	293	2688	0.10%	0.004%

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FID_G

ClientSampleId :

RES-BUILDING-PAD-NO-2

0.23% 0.009%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :Ankita Jodhani 11/04/2024

					rterres				
352	14.325	14.319	14.328	VV	108	393	0.01%	0.001%	
353	14.379	14.328	14.409	VV	790	18637			
354	14.452	14.409	14.469	VV	240	6536			
355	14.545	14.469	14.597	VV	2567	65631			
356	14.619	14.597	14.643	VV	848	18954			
357	14.667	14.643	14.687	VV	791	14816			
358	14.717	14.687	14.754	VV	6554	103999	3.92%	0.149%	
359	14.773	14.754	14.798	VV	2133	33893	1.28%	0.049%	
360	14.815	14.798	14.852	VV	1119	21465	0.81%	0.031%	
361	14.878	14.852	14.900	VV	557	8070	0.30%	0.012%	
362	14.935	14.900	14.962	PV	3171	46926	1.77%	0.067%	
363	14.978	14.962	14.987	VV	467	6058	0.23%	0.009%	
364	14.993	14.987	15.019	VV	373	3777	0.14%	0.005%	
365	15.055	15.019	15.090	PV	135481	1786075	67.26%	2.561%	
366	15.102	15.090	15.132	VV	887	11742	0.44%	0.017%	
367	15.145	15.132	15.150	PV	179	895	0.03%	0.001%	
368	15.154	15.150	15.157	VV	163	420	0.02%	0.001%	
369	15.185	15.157	15.200	VV	1170	14257	0.54%	0.020%	
370	15.225	15.200	15.238	VV	2280	31931	1.20%	0.046%	
371	15.257	15.238	15.285	VV	6421	81970	3.09%	0.118%	
372	15.301	15.285	15.321	PV	651	7580	0.29%	0.011%	
373	15.353	15.321	15.359	VV	219	2912	0.11%	0.004%	
374	15.403	15.359	15.412	VV	204	5405	0.20%	0.008%	
375	15.454	15.412	15.460	PV	315	4605	0.17%	0.007%	
376	15.481	15.460	15.498	VV	401	7077	0.27%	0.010%	
377	15.509	15.498	15.515	VV	272	2420	0.09%	0.003%	
378	15.524	15.515	15.537	VV	259	2702	0.10%	0.004%	
379	15.541	15.537	15.544	VV	242	810	0.03%	0.001%	
380	15.600	15.544	15.603	VV	640	13913	0.52%	0.020%	
381	15.635	15.603	15.719	VV	62871	984014	37.05%	1.411%	
382	15.737	15.719	15.742	VV	900	12537	0.47%	0.018%	
383	15.778	15.742	15.809	VV	8752	149903	5.64%	0.215%	
384	15.822	15.809	15.835	VV	2565	34266	1.29%	0.049%	
385	15.854	15.835	15.881	VV	4221	66858	2.52%	0.096%	
386	15.902	15.881	15.934	VV	1268	28348	1.07%	0.041%	
387	15.958	15.934	15.966	VV	502	9294	0.35%	0.013%	
388	15.990	15.966	16.059	VV	3046	71346	2.69%	0.102%	
389	16.079	16.059	16.083	VV	489	6454	0.24%	0.009%	
390	16.104	16.083	16.129	VV	769	13010	0.49%	0.019%	
391	16.156	16.129	16.186	VV	1831	34493	1.30%	0.049%	
392	16.191	16.186	16.194	VV	534	2535	0.10%	0.004%	
393	16.197	16.194	16.215	VV	492	3735	0.14%	0.005%	
394	16.245	16.215	16.252	VV	139	1669	0.06%	0.002%	
395	16.280	16.252	16.324	VV	8150	108475	4.08%	0.156%	
396	16.350	16.324	16.363	PV	467	7693	0.29%	0.011%	
397	16.375	16.363	16.390	VV	513	4853	0.18%	0.007%	
398	16.395	16.390	16.399	VV	105	347	0.01%	0.000%	
399	16.478	16.399	16.484	PV	895	18492	0.70%	0.027%	
400	16.536	16.484	16.540	VV	917	25660	0.97%	0.037%	
401	16.580	16.540	16.618	VV	4331	107414	4.04%	0.154%	
402	16.652	16.618	16.681	VV	7605	160619	6.05%	0.230%	
403	16.698	16.681	16.719	VV	4388	74391	2.80%	0.107%	
404	16.762	16.719	16.800	VV	9237	203604	7.67%	0.292%	

Instrument :

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RES-BUILDING-PAD-NO-2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

405	16.843	16.800	16.860	VV	2804	63270		
406	16.890	16.860	16.898	VV	1659	35673		
407	16.927	16.898	16.943	VV	1753	40078		
408	16.985	16.943	16.994	VV	1357	38240		
409	17.024	16.994	17.047	VV	2701	63833		
410	17.065	17.047	17.089	VV	2475	42187		
411	17.121	17.089	17.144	VV	1879	41061	1.55%	0.059%
412	17.152	17.144	17.162	VV	701	5625	0.21%	0.008%
413	17.167	17.162	17.174	VV	488	2113	0.08%	0.003%
414	17.191	17.174	17.196	PV	441	3753	0.14%	0.005%
415	17.231	17.196	17.253	VV	7394	109839	4.14%	0.157%
416	17.282	17.253	17.307	VV	4567	79938	3.01%	0.115%
417	17.312	17.307	17.324	VV	953	6767	0.25%	0.010%
418	17.332	17.324	17.341	VV	612	4517	0.17%	0.006%
419	17.351	17.341	17.357	VV	491	3718	0.14%	0.005%
420	17.362	17.357	17.367	VV	343	1265	0.05%	0.002%
421	17.397	17.367	17.408	PV	727	10123	0.38%	0.015%
422	17.415	17.408	17.427	VV	581	3636	0.14%	0.005%
423	17.464	17.427	17.474	PV	1665	20639	0.78%	0.030%
424	17.522	17.474	17.528	VV	1019	33509	1.26%	0.048%
425	17.534	17.528	17.545	VV	969	7974	0.30%	0.011%
426	17.561	17.545	17.568	VV	1150	12560	0.47%	0.018%
427	17.601	17.568	17.614	VV	4749	85273	3.21%	0.122%
428	17.624	17.614	17.638	VV	3043	35313	1.33%	0.051%
429	17.682	17.638	17.705	VV	9990	190685	7.18%	0.273%
430	17.727	17.705	17.741	VV	1912	34092	1.28%	0.049%
431	17.770	17.741	17.781	VV	2514	42466	1.60%	0.061%
432	17.803	17.781	17.819	VV	2681	50156	1.89%	0.072%
433	17.825	17.819	17.836	VV	2090	19338	0.73%	0.028%
434	17.860	17.836	17.885	VV	3283	71728	2.70%	0.103%
435	17.896	17.885	17.901	VV	2258	20606	0.78%	0.030%
436	17.920	17.901	17.931	VV	2927	45241	1.70%	0.065%
437	17.955	17.931	17.972	VV	3723	74207	2.79%	0.106%
438	17.981	17.972	17.986	VV	3381	27613	1.04%	0.040%
439	17.996	17.986	18.005	VV	4073	43276	1.63%	0.062%
440	18.024	18.005	18.031	VV	4784	65968	2.48%	0.095%
441	18.041	18.031	18.048	VV	5987	54770	2.06%	0.079%
442	18.075	18.048	18.091	VV	7214	161635	6.09%	0.232%
443	18.118	18.091	18.145	VV	11118	249307	9.39%	0.357%
444	18.152	18.145	18.172	VV	4639	71119	2.68%	0.102%
445	18.186	18.172	18.195	VV	4825	54486	2.05%	0.078%
446	18.214	18.195	18.234	VV	5045	99186	3.73%	0.142%
447	18.271	18.234	18.287	VV	6786	151952	5.72%	0.218%
448	18.298	18.287	18.325	VV	4360	78235	2.95%	0.112%
449	18.356	18.325	18.374	VV	4007	96471	3.63%	0.138%
450	18.391	18.374	18.396	VV	2641	32614	1.23%	0.047%
451	18.402	18.396	18.420	VV	2472	29777	1.12%	0.043%
452	18.477	18.420	18.520	VV	35424	863797	32.53%	1.239%
453	18.544	18.520	18.570	VV	14417	297709	11.21%	0.427%
454	18.588	18.570	18.596	VV	7119	100666	3.79%	0.144%
455	18.603	18.596	18.609	VV	6154	45215	1.70%	0.065%
456	18.637	18.609	18.656	VV	11228	246214	9.27%	0.353%

Instrument :

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2.38% 0.091%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :Ankita Jodhani 11/04/2024

					rteres				
457	18.662	18.656	18.672	VV	7814	69377	2.61%	0.099%	
458	18.682	18.672	18.699	VV	7254	110419			
459	18.710	18.699	18.718	VV	7349	75392			
460	18.726	18.718	18.734	VV	6992	64555			
461	18.748	18.734	18.764	VV	9281	142219			
462	18.774	18.764	18.783	VV	8276	86119			
463	18.790	18.783	18.811	VV	7996	126451	4.76%	0.181%	
464	18.832	18.811	18.840	VV	9170	144492	5.44%	0.207%	
465	18.868	18.840	18.875	VV	9450	177516	6.68%	0.255%	
466	18.899	18.875	18.912	VV	11482	225295	8.48%	0.323%	
467	18.942	18.912	18.996	VV	20619	706062	26.59%	1.012%	
468	19.010	18.996	19.020	VV	10015	133726	5.04%	0.192%	
469	19.070	19.020	19.096	VV	16511	602586	22.69%	0.864%	
470	19.113	19.096	19.134	VV	13543	279204	10.51%	0.400%	
471	19.152	19.134	19.169	VV	12963	245550	9.25%	0.352%	
472	19.195	19.169	19.214	VV	14594	350202	13.19%	0.502%	
473	19.221	19.214	19.228	VV	13820	114001	4.29%	0.163%	
474	19.236	19.228	19.242	VV	14352	115480	4.35%	0.166%	
475	19.254	19.242	19.266	VV	15018	195991	7.38%	0.281%	
476	19.307	19.266	19.336	VV	39955	1064919	40.10%	1.527%	
477	19.354	19.336	19.385	VV	26019	662736	24.96%	0.950%	
478	19.392	19.385	19.398	VV	21572	158217	5.96%	0.227%	
479	19.419	19.398	19.425	VV	22540	339113	12.77%	0.486%	
480	19.431	19.425	19.438	VV	21981	162979	6.14%	0.234%	
481	19.460	19.438	19.475	VV	21976	470048	17.70%	0.674%	
482	19.488	19.475	19.505	VV	24098	396920	14.95%	0.569%	
483	19.512	19.505	19.520	VV	21478	190836	7.19%	0.274%	
484	19.525	19.520	19.532	VV	20851	154986	5.84%	0.222%	
485	19.549	19.532	19.574	VV	23284	541750	20.40%	0.777%	
486	19.594	19.574	19.599	VV	21023	298982	11.26%	0.429%	
487	19.623	19.599	19.628	VV	21045	355836	13.40%	0.510%	
488	19.634	19.628	19.639	VV	21116	142229	5.36%	0.204%	
489	19.662	19.639	19.668	VV	23156	367747	13.85%	0.527%	
490	19.679	19.668	19.686	VV	25089	259055	9.75%	0.371%	
491	19.703	19.686	19.712	VV	24626	369556	13.92%	0.530%	
492	19.729	19.712	19.734	VV	25999	336089	12.66%	0.482%	
493	19.739	19.734	19.747	VV	25986	190810	7.19%	0.274%	
494	19.761	19.747	19.766	VV	27128	295123	11.11%	0.423%	
495	19.769	19.766	19.775	VV	26660	136484	5.14%	0.196%	
496	19.829	19.775	19.834	VV	29781	988163	37.21%	1.417%	
497	19.840	19.834	19.860	VV	30384	429033	16.16%	0.615%	
498	19.864	19.860	19.873	VV	25231	175461	6.61%	0.252%	
499	19.880	19.873	19.886	VV	23977	186301	7.02%	0.267%	
500	19.892	19.886	19.896	VV	22927	131093	4.94%	0.188%	
501	19.909	19.896	19.923	VV	24768	367123	13.82%	0.526%	
502	19.954	19.923	19.972	VV	26807	730485	27.51%	1.047%	
503	19.981	19.972	19.989	VV	26197	246495	9.28%	0.353%	
504	19.993	19.989	19.998	VV	24956	132095	4.97%	0.189%	
505	20.007	19.998	20.012	VV	26890	225789	8.50%	0.324%	
506	20.019	20.012	20.027	VV	27941	243952	9.19%	0.350%	
507	20.035	20.027	20.040	VV	28319	219512	8.27%	0.315%	
508	20.043	20.040	20.053	VV	28147	205243	7.73%	0.294%	
509	20.060	20.053	20.065	VV	28050	187941	7.08%	0.269%	

Instrument :

FID_G

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RES-BUILDING-PAD-NO-2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
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					Instrument : FID_G		
					ClientSampleId : RES-BUILDING-PAD-NO-2		
510	20.102	20.065	20.154	VV	38740	1753635	66.03% 2.514%
511	20.180	20.154	20.197	VV	35877	837734	31.11% 1.000%
512	20.206	20.197	20.213	VV	32884	317679	11.00% 0.354%
513	20.225	20.213	20.254	VV	36396	826555	31.11% 1.000%
514	20.261	20.254	20.266	VV	33143	245421	9.00% 0.297%
515	20.272	20.266	20.294	VV	33230	520504	19.00% 0.619%
516	20.330	20.294	20.349	VV	37334	1136080	42.78% 1.629%
517	20.361	20.349	20.375	VV	35105	544843	20.52% 0.781%
518	20.394	20.375	20.399	VV	37469	495026	18.64% 0.710%
519	20.443	20.399	20.449	VV	44602	1201160	45.23% 1.722%
520	20.459	20.449	20.467	VV	44576	463370	17.45% 0.664%
521	20.475	20.467	20.494	VV	46850	744534	28.04% 1.068%
522	20.510	20.494	20.522	VV	45547	738368	27.80% 1.059%
523	20.535	20.522	20.549	VV	45893	707094	26.63% 1.014%
524	20.554	20.549	20.591	VV	45393	1039488	39.14% 1.490%
525	20.599	20.591	20.604	VV	39442	300004	11.30% 0.430%
526	20.639	20.604	20.673	VV	56369	1894231	71.33% 2.716%
527	20.702	20.673	20.707	VV	51593	978650	36.85% 1.403%
528	20.711	20.707	20.714	VV	50387	209889	7.90% 0.301%
529	20.736	20.714	20.750	VV	54335	1118608	42.12% 1.604%
530	20.757	20.750	20.764	VV	50974	404398	15.23% 0.580%
531	20.773	20.764	20.809	VV	49901	1272753	47.93% 1.825%
532	20.815	20.809	20.849	VV	44644	981860	36.97% 1.408%
533	20.869	20.849	20.887	VV	39526	844212	31.79% 1.210%
534	20.903	20.887	20.913	VV	40181	601771	22.66% 0.863%
535	20.927	20.913	20.935	VV	40671	513513	19.34% 0.736%
536	20.951	20.935	20.974	VV	40728	914168	34.42% 1.311%
537	21.011	20.974	21.024	VV	40078	1135739	42.77% 1.628%
538	21.031	21.024	21.044	VV	39622	467238	17.59% 0.670%
539	21.047	21.044	21.062	VV	38441	412915	15.55% 0.592%
540	21.070	21.062	21.075	VV	39269	294802	11.10% 0.423%
541	21.081	21.075	21.110	VV	40346	839460	31.61% 1.204%
542	21.118	21.110	21.147	VV	39088	791476	29.80% 1.135%
543	21.158	21.147	21.177	VV	33536	575703	21.68% 0.825%
544	21.221	21.177	21.252	VV	35695	1474136	55.51% 2.114%
545	21.265	21.252	21.270	VV	32880	351328	13.23% 0.504%
546	21.274	21.270	21.279	VV	32857	164927	6.21% 0.236%
547	21.290	21.279	21.297	VV	33431	347989	13.10% 0.499%
548	21.309	21.297	21.336	VV	32641	707764	26.65% 1.015%
549	21.343	21.336	21.379	VV	27293	615554	23.18% 0.883%
550	21.401	21.379	21.411	VV	23520	431401	16.24% 0.619%
551	21.442	21.411	21.449	VV	25396	547038	20.60% 0.784%
552	21.457	21.449	21.463	VV	25622	217546	8.19% 0.312%
553	21.471	21.463	21.475	VV	26609	187481	7.06% 0.269%
554	21.489	21.475	21.505	VV	28477	494845	18.63% 0.710%
555	21.511	21.505	21.520	VV	27276	236638	8.91% 0.339%
556	21.525	21.520	21.536	VV	27320	246599	9.29% 0.354%
557	21.543	21.536	21.552	VV	27087	256426	9.66% 0.368%
558	21.558	21.552	21.565	VV	25789	194975	7.34% 0.280%
559	21.584	21.565	21.590	VV	26797	384640	14.48% 0.552%
560	21.609	21.590	21.615	VV	27804	398071	14.99% 0.571%
561	21.629	21.615	21.646	VV	29374	524187	19.74% 0.752%

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual IntegrationsAPPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Instrument : FID_G						ClientSampleId : RES-BUILDING-PAD-NO-2		
Interferes						Manual Integrations		
562	21.655	21.646	21.712	VV	27958	869479	32.74%	1.247%
563	21.716	21.712	21.720	VV	13324	63135		
564	21.728	21.720	21.732	VV	15095	98928		
565	21.737	21.732	21.772	VV	14333	266262	10.51%	0.134%
						Reviewed By :Yogesh P		
						Supervised By :Ankita Jo		
566	21.824	21.772	21.833	VV	13532	396487	14.51%	0.134%
567	21.847	21.833	21.852	VV	14753	149699	5.12%	0.133%
568	21.857	21.852	21.863	VV	15179	93223	3.51%	0.133%
569	21.869	21.863	21.874	VV	14385	92688	3.49%	0.135%
570	21.880	21.874	21.885	VV	13842	93807	3.53%	0.135%
571	21.894	21.885	21.902	VV	13908	136506	5.14%	0.196%
572	21.906	21.902	21.920	VV	14014	135996	5.12%	0.195%
573	21.928	21.920	21.935	VV	12108	105203	3.96%	0.151%
574	21.950	21.935	21.963	VV	12356	197107	7.42%	0.283%
575	21.970	21.963	21.975	VV	13242	91733	3.45%	0.132%
576	22.018	21.975	22.025	VV	17312	461432	17.38%	0.662%
577	22.032	22.025	22.058	VV	17984	325244	12.25%	0.466%
578	22.061	22.058	22.089	VV	15911	281046	10.58%	0.403%
579	22.096	22.089	22.117	VV	15376	229712	8.65%	0.329%
580	22.120	22.117	22.150	VV	11858	189654	7.14%	0.272%
581	22.158	22.150	22.206	VV	8900	190832	7.19%	0.274%
582	22.212	22.206	22.226	VV	3297	28015	1.05%	0.040%
583	22.231	22.226	22.242	VV	2073	11973	0.45%	0.017%
584	22.251	22.242	22.266	PV	1246	12830	0.48%	0.018%
585	22.273	22.266	22.282	VV	2042	11722	0.44%	0.017%
586	22.287	22.282	22.300	VBA	1143	53401	2.01%	0.077%
Sum of corrected areas:						69742196		

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel	11/04/2024
Supervised By :Ankita Jodhani	11/04/2024



CALIBRATION SUMMARY

TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: UNIO02
 ProjectID: Rt. 10 Whippany
 Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Calibration Sequence : FG102124		Test : TPH GC	
Concentration (PPM)	Area Count	Reference Factor	File ID
1700	202059326	118858	FG014453.D
850	102753431	120886	FG014454.D
340	42726636	125667	FG014455.D
170	22264935	130970	FG014456.D
85	11318543	133159	FG014457.D
AVG RF : 125908		% RSD : 4.915	AVG RT : 15.0822

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: UNIO02
ProjectID: Rt. 10 Whippany
Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663
DataFile: FG014618.D Analyst Name: YP\AJ Analyst Date: 11-01-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
850	107947749	126997	125908	0.865

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
 Data File : FG014618.D
 Signal(s) : FID1A.ch
 Acq On : 01 Nov 2024 13:18
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/04/2024
 Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
 Quant Time: Nov 04 01:29:57 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
 Quant Title :
 QLast Update : Mon Oct 21 17:03:32 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.052	5894321	49.282 ug/mlm
Target Compounds			
1) N-OCTANE	2.062	5940011	49.254 ug/ml
2) N-DECANE	4.579	6680496	53.955 ug/ml
3) N-DODECANE	6.750	6777890	53.779 ug/ml
4) N-TETRADECANE	8.582	6822299	53.095 ug/ml
5) N-HEXADECANE	10.192	6833456	52.480 ug/ml
6) N-OCTADECANE	11.639	6918005	51.557 ug/ml
7) N-EICOSANE	12.951	6944240	50.934 ug/ml
8) N-DOCOSANE	14.152	6676382	50.289 ug/ml
10) N-TETRACOSANE	15.257	6617427	49.645 ug/ml
11) N-HEXACOSANE	16.278	6529232	49.053 ug/ml
12) N-OCTACOSANE	17.231	6459935	48.713 ug/ml
13) N-TRIACONTANE	18.116	6658863	49.742 ug/ml
14) N-DOTRIACONTANE	18.951	6612882	49.998 ug/ml
15) N-TETRATRIACONTANE	19.732	6161763	48.780 ug/mlm
16) N-HEXATRIACONTANE	20.473	5602572	48.409 ug/ml
17) N-OCTATRIACONTANE	21.222	5105283	48.248 ug/ml
18) N-TETRACONTANE	22.165	4607013	48.497 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014618.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 13:18
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

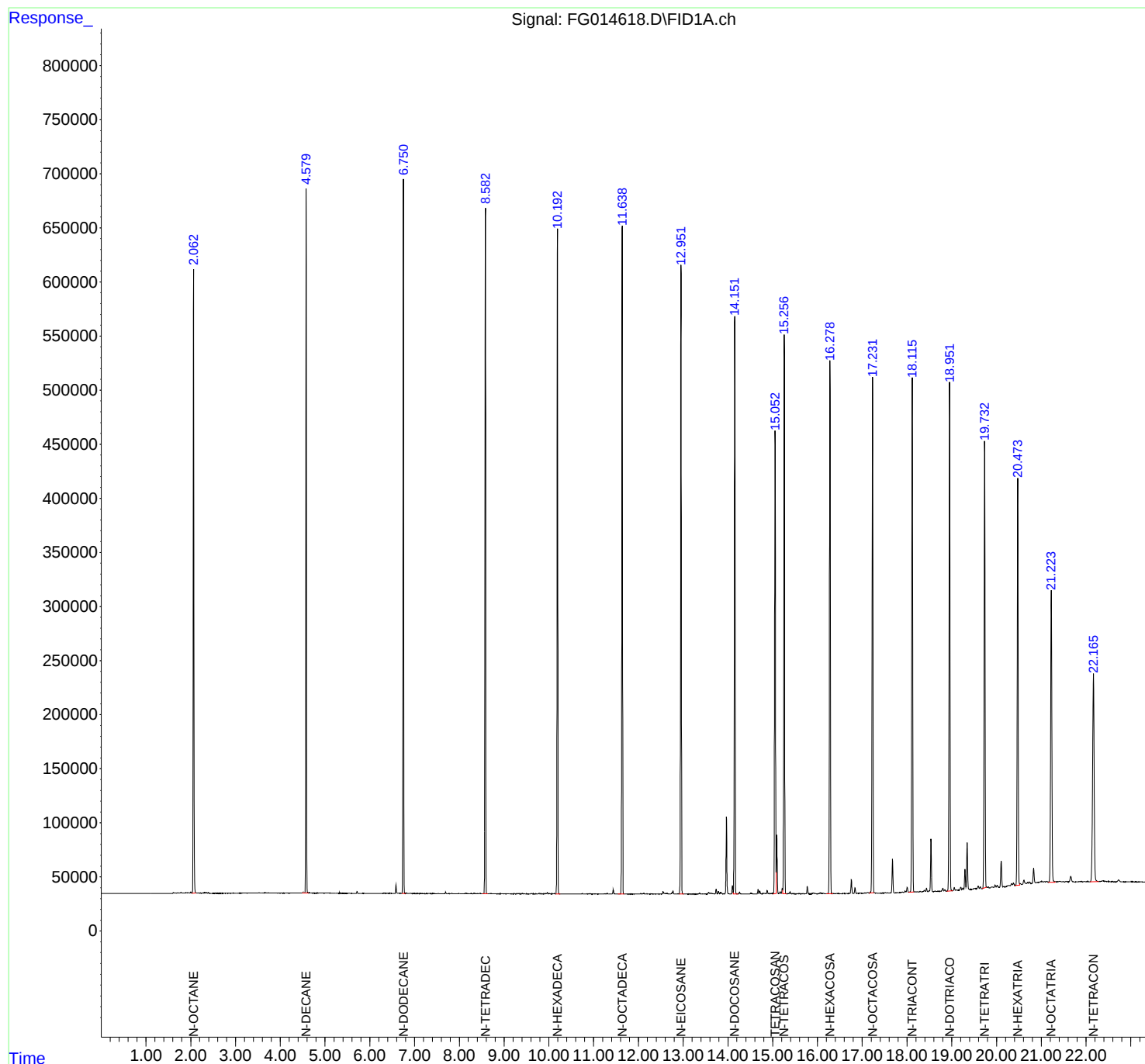
Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 04 01:29:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :
FID_G
LabSampleId :
50 PPM TRPH STD
Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124
Data File : FG014618.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 13:18
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.062	2.025	2.121	PB	576082	5940011	85.54%	5.225%
2	4.579	4.490	4.634	BB	651771	6680496	96.20%	5.876%
3	6.750	6.714	6.801	BB	659566	6777890	97.60%	5.962%
4	8.582	8.511	8.635	BB	634547	6822299	98.24%	6.001%
5	10.192	10.148	10.253	BB	614742	6833456	98.40%	6.011%
6	11.639	11.542	11.683	BB	617443	6918005	99.62%	6.085%
7	12.951	12.912	13.018	PB	581363	6944240	100.00%	6.108%
8	14.152	14.117	14.229	VB	533943	6676382	96.14%	5.873%
9	15.052	15.010	15.077	VV	427925	5892912	84.86%	5.184%
10	15.257	15.223	15.313	VB	516952	6617427	95.29%	5.821%
11	16.278	16.199	16.348	BV	492694	6529232	94.02%	5.743%
12	17.231	17.153	17.265	BV	476536	6459935	93.03%	5.682%
13	18.116	18.034	18.158	VV	475878	6658863	95.89%	5.857%
14	18.951	18.887	19.023	BV	470122	6612882	95.23%	5.817%
15	19.733	19.701	19.796	BV	409057	6005812	86.49%	5.283%
16	20.473	20.415	20.519	VV	376455	5602572	80.68%	4.928%
17	21.222	21.158	21.304	PV	270447	5105283	73.52%	4.491%
18	22.165	22.087	22.280	PV	191708	4607013	66.34%	4.052%

Sum of corrected areas: 113684709

FG102124.M Mon Nov 04 02:28:03 2024

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: UNIO02
ProjectID: Rt. 10 Whippany
Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663
DataFile: FG014626.D Analyst Name: YP\AJ Analyst Date: 11-01-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
850	107528220	126504	125908	0.473

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
 Data File : FG014626.D
 Signal(s) : FID1A.ch
 Acq On : 01 Nov 2024 17:34
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/04/2024
 Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
 Quant Time: Nov 04 01:31:03 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
 Quant Title :
 QLast Update : Mon Oct 21 17:03:32 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.057	5752066	48.092 ug/mlm
Target Compounds			
1) N-OCTANE	2.064	5836809	48.399 ug/ml
2) N-DECANE	4.581	6593082	53.249 ug/ml
3) N-DODECANE	6.753	6682694	53.024 ug/ml
4) N-TETRADECANE	8.585	6712287	52.239 ug/ml
5) N-HEXADECANE	10.196	6722115	51.625 ug/ml
6) N-OCTADECANE	11.643	6799546	50.674 ug/ml
7) N-EICOSANE	12.956	6821091	50.031 ug/ml
8) N-DOCOSANE	14.156	6551316	49.347 ug/ml
10) N-TETRACOSANE	15.262	6478937	48.606 ug/ml
11) N-HEXACOSANE	16.283	6378367	47.920 ug/ml
12) N-OCTACOSANE	17.235	6322440	47.676 ug/ml
13) N-TRIACONTANE	18.124	6575489	49.119 ug/ml
14) N-DOTRIACONTANE	18.956	6558918	49.590 ug/ml
15) N-TETRATRIACONTANE	19.740	6189215	48.997 ug/ml
16) N-HEXATRIACONTANE	20.480	5805226	50.160 ug/ml
17) N-OCTATRIACONTANE	21.231	5407252	51.102 ug/ml
18) N-TETRACONTANE	22.174	5093436	53.618 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014626.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 17:34
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

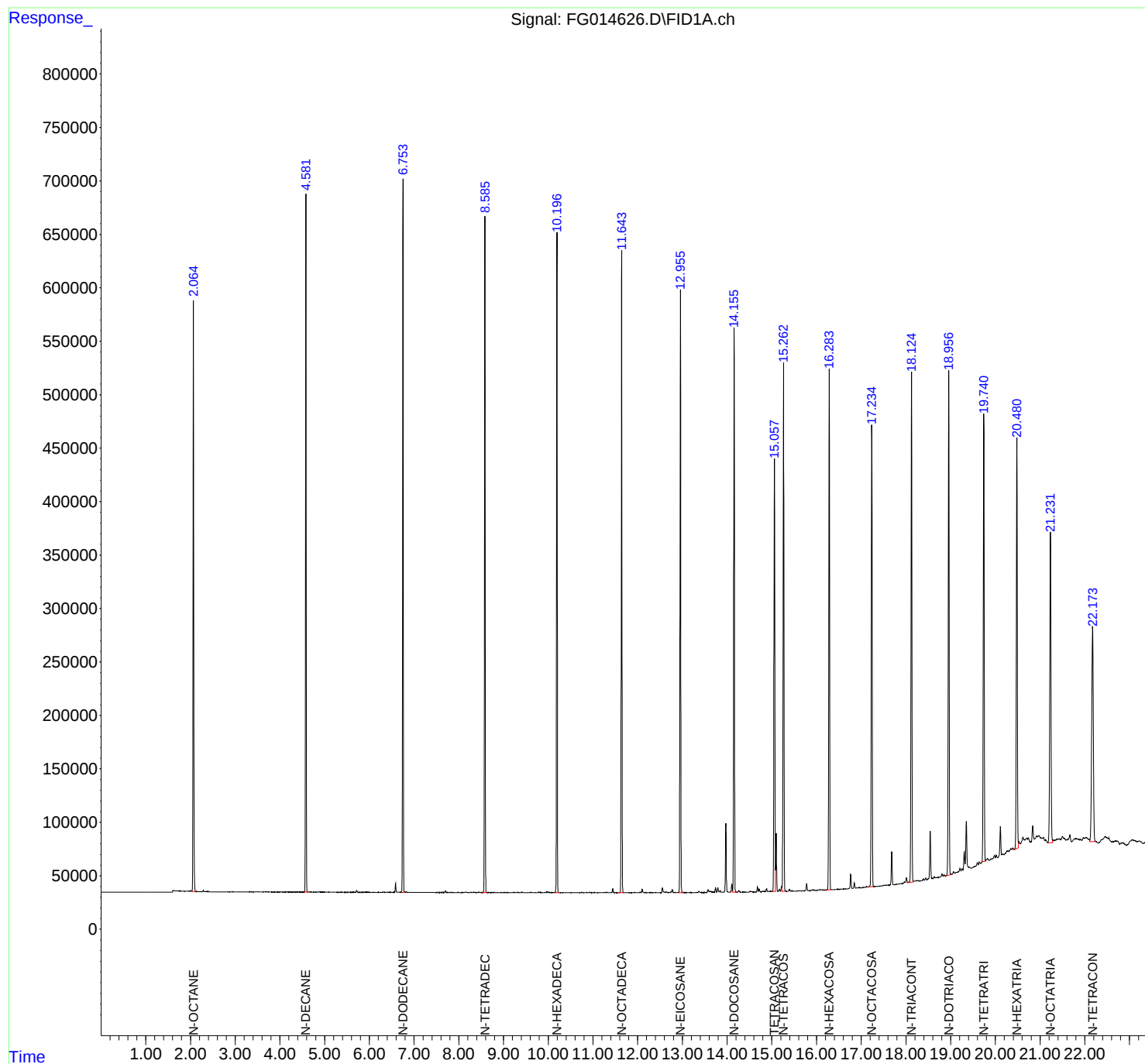
Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 04 01:31:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :
FID_G
LabSampleId :
50 PPM TRPH STD
Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124
Data File : FG014626.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 17:34
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.064	2.026	2.126	PB	552464	5836809	85.57%	5.152%
2	4.581	4.538	4.638	BB	653644	6593082	96.66%	5.820%
3	6.753	6.711	6.805	BB	668004	6682694	97.97%	5.899%
4	8.585	8.531	8.642	BB	632756	6712287	98.40%	5.925%
5	10.196	10.152	10.251	BB	616845	6722115	98.55%	5.934%
6	11.643	11.547	11.699	BB	600101	6799546	99.68%	6.002%
7	12.956	12.917	13.021	PV	564066	6821091	100.00%	6.021%
8	14.156	14.122	14.223	VV	527740	6551316	96.04%	5.783%
9	15.057	15.014	15.082	BV	404746	5761095	84.46%	5.085%
10	15.262	15.227	15.297	VV	494446	6478937	94.98%	5.719%
11	16.283	16.193	16.323	BB	487005	6378367	93.51%	5.630%
12	17.235	17.158	17.271	BV	431234	6322440	92.69%	5.581%
13	18.124	18.040	18.161	VV	479086	6575489	96.40%	5.804%
14	18.956	18.884	19.030	PV	472074	6558918	96.16%	5.790%
15	19.740	19.701	19.775	BV	419356	6189215	90.74%	5.463%
16	20.480	20.421	20.515	VV	383911	5805226	85.11%	5.124%
17	21.231	21.171	21.278	PV	290788	5407252	79.27%	4.773%
18	22.174	22.111	22.251	VV	200911	5093436	74.67%	4.496%
Sum of corrected areas:						113289316		

FG102124.M Mon Nov 04 02:30:18 2024

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: UNIO02
ProjectID: Rt. 10 Whippany
Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663
DataFile: FG014632.D Analyst Name: YP\AJ Analyst Date: 11-01-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
850	118323937	139205	125908	10.561

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
 Data File : FG014632.D
 Signal(s) : FID1A.ch
 Acq On : 01 Nov 2024 21:22
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/04/2024
 Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
 Quant Time: Nov 04 01:31:56 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
 Quant Title :
 QLast Update : Mon Oct 21 17:03:32 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.055	6324210	52.876 ug/mlm
Target Compounds			
1) N-OCTANE	2.064	6143515	50.942 ug/ml
2) N-DECANE	4.581	7259204	58.628 ug/ml
3) N-DODECANE	6.753	7351063	58.327 ug/ml
4) N-TETRADECANE	8.584	7358523	57.268 ug/ml
5) N-HEXADECANE	10.196	7355476	56.489 ug/ml
6) N-OCTADECANE	11.642	7438886	55.438 ug/ml
7) N-EICOSANE	12.955	7456496	54.691 ug/ml
8) N-DOCOSANE	14.156	7161442	53.943 ug/ml
10) N-TETRACOSANE	15.261	7071329	53.050 ug/ml
11) N-HEXACOSANE	16.282	6942593	52.159 ug/ml
12) N-OCTACOSANE	17.233	6951064	52.416 ug/ml
13) N-TRIACONTANE	18.122	7329928	54.755 ug/ml
14) N-DOTRIACONTANE	18.956	7395987	55.919 ug/ml
15) N-TETRATRIACONTANE	19.741	6979145	55.250 ug/ml
16) N-HEXATRIACONTANE	20.479	6423052	55.498 ug/ml
17) N-OCTATRIACONTANE	21.231	5974132	56.459 ug/ml
18) N-TETRACONTANE	22.176	5732102	60.341 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014632.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 21:22
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

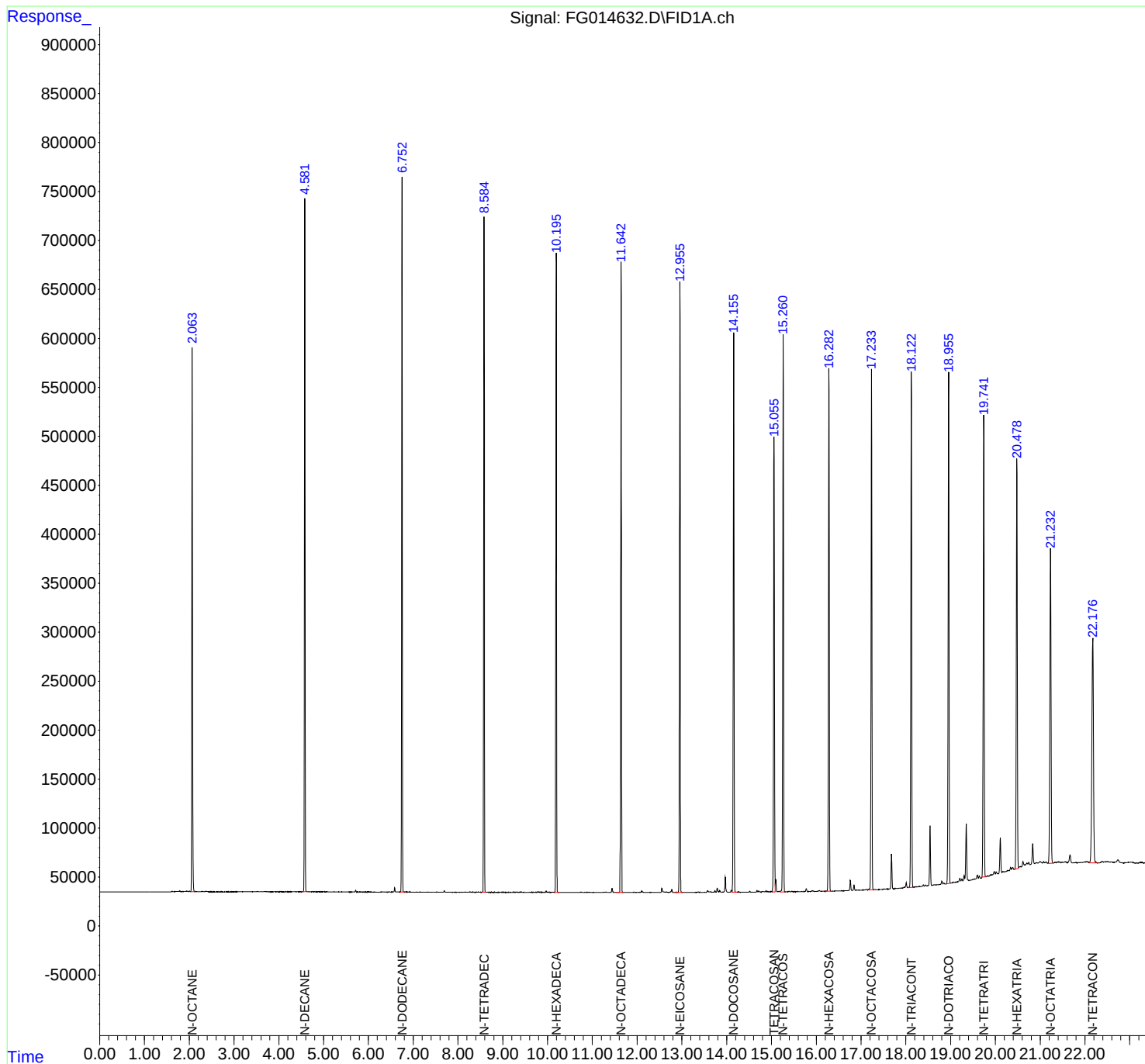
Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 04 01:31:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :
FID_G
LabSampleId :
50 PPM TRPH STD
Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124
Data File : FG014632.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 21:22
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.064	2.030	2.128	PV	554880	6143515	82.39%	4.929%
2	4.581	4.509	4.645	BB	708109	7259204	97.35%	5.824%
3	6.753	6.708	6.808	BV	729483	7351063	98.59%	5.898%
4	8.584	8.536	8.628	BB	690175	7358523	98.69%	5.904%
5	10.196	10.152	10.253	BB	652567	7355476	98.65%	5.901%
6	11.642	11.526	11.696	BV	642043	7438886	99.76%	5.968%
7	12.955	12.833	13.018	BB	623210	7456496	100.00%	5.982%
8	14.156	14.118	14.228	VB	572085	7161442	96.04%	5.745%
9	15.056	15.013	15.084	BV	464701	6322305	84.79%	5.072%
10	15.261	15.189	15.310	VB	569605	7071329	94.83%	5.673%
11	16.282	16.188	16.329	BV	533262	6942593	93.11%	5.570%
12	17.233	17.145	17.299	BV	531855	6951064	93.22%	5.577%
13	18.122	18.037	18.174	VV	525719	7329928	98.30%	5.881%
14	18.956	18.885	18.997	PV	522567	7395987	99.19%	5.934%
15	19.741	19.700	19.802	BV	470161	6979145	93.60%	5.599%
16	20.479	20.418	20.517	VV	418056	6423052	86.14%	5.153%
17	21.231	21.174	21.300	PV	319720	5974132	80.12%	4.793%
18	22.176	22.095	22.285	VV	229242	5732102	76.87%	4.599%
Sum of corrected areas:						124646240		

FG102124.M Mon Nov 04 02:32:56 2024

Analytical Sequence

Client: Union Paving & Construction Company

SDG No.: P4663

Project: Rt. 10 Whippany

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 15.0822					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	01 Nov 2024 12:50	FG014617.D	15.049	
50 PPM TRPH STD	50 PPM TRPH STD	01 Nov 2024 13:18	FG014618.D	15.052	
TENNANT-PAD-2-3-STOCKPILE	P4663-02	01 Nov 2024 14:43	FG014621.D	15.049	
RES-BUILDING-PAD-NO-11	P4663-04	01 Nov 2024 15:12	FG014622.D	15.053	
RES-BUILDING-PAD-NO-3	P4663-06	01 Nov 2024 15:40	FG014623.D	15.053	
RES-BUILDING-PAD-NO-2	P4663-08	01 Nov 2024 16:09	FG014624.D	15.055	
PIBLK02	LBLK02	01 Nov 2024 16:37	FG014625.D	15.055	
50 PPM TRPH STD	50 PPM TRPH STD	01 Nov 2024 17:34	FG014626.D	15.057	
PB164602BL	PB164602BL	01 Nov 2024 18:31	FG014627.D	15.052	
PB164602BS	PB164602BS	01 Nov 2024 19:00	FG014628.D	15.053	
RES-BUILDING-PAD-NO-2MS	P4663-08MS	01 Nov 2024 19:28	FG014629.D	15.053	
RES-BUILDING-PAD-NO-2MSD	P4663-08MSD	01 Nov 2024 19:56	FG014630.D	15.051	
PIBLK03	LBLK03	01 Nov 2024 20:25	FG014631.D	15.053	
50 PPM TRPH STD	50 PPM TRPH STD	01 Nov 2024 21:22	FG014632.D	15.056	



QC SAMPLE DATA

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:		
Project:	Rt. 10 Whippany		Date Received:		
Client Sample ID:	PB164602BL		SDG No.:	P4663	
Lab Sample ID:	PB164602BL		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	100	Decanted:
Sample Wt/Vol:	30.01	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014627.D	1	11/01/24 11:35	11/01/24 18:31	PB164602

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	318	U	318	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	16.1		37 - 130	80%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014627.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 18:31
Operator : YP\AJ
Sample : PB164602BL
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164602BL

Integration File: autoint1.e
Quant Time: Nov 04 01:31:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.052	1921381	16.064 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

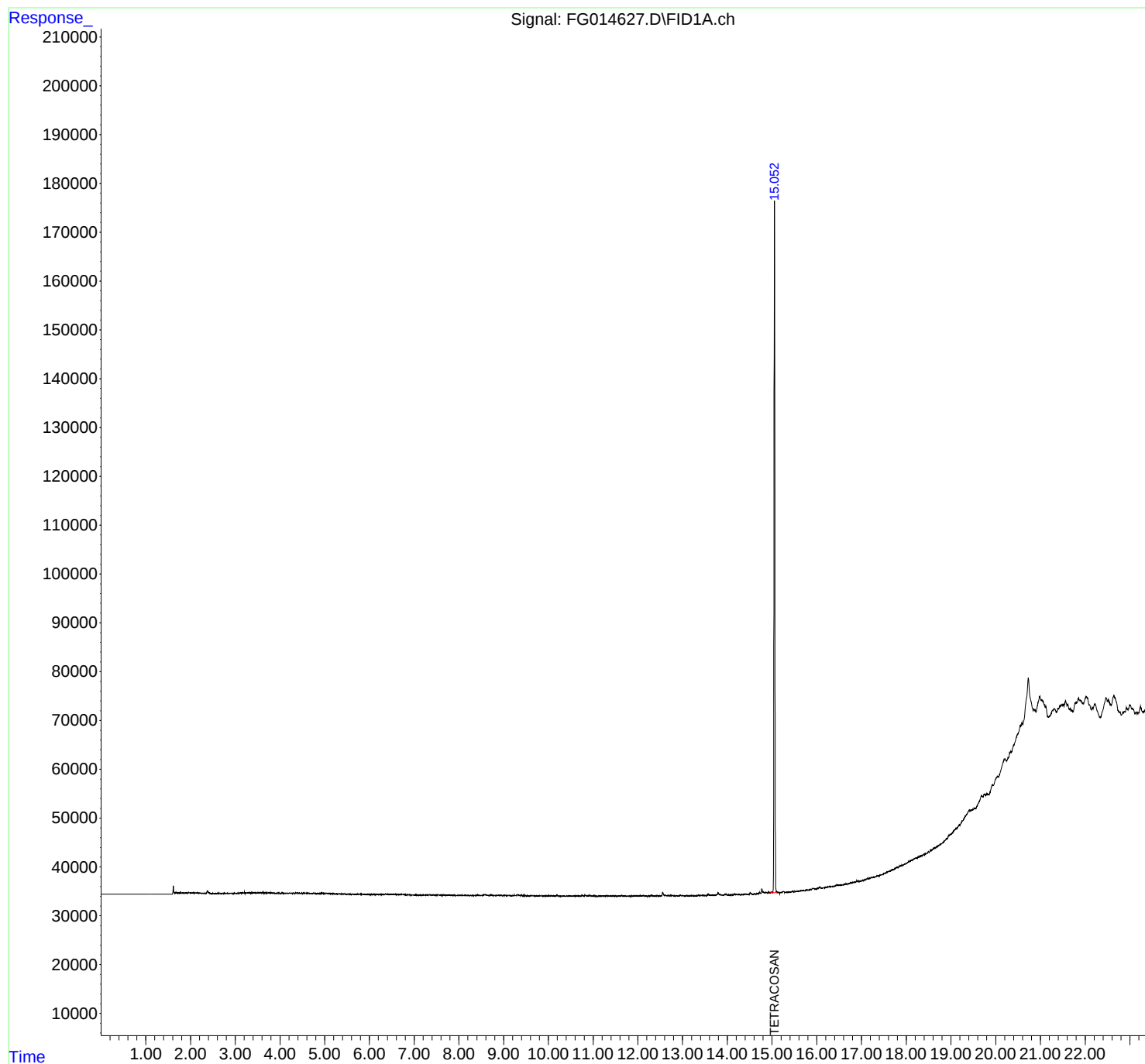
(m)=manual int.

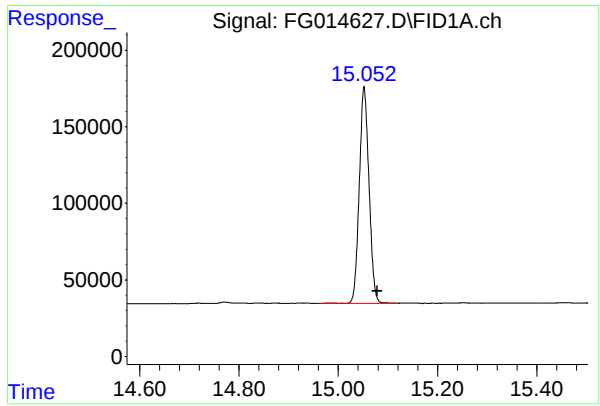
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014627.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 18:31
Operator : YP\AJ
Sample : PB164602BL
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164602BL

Integration File: autoint1.e
Quant Time: Nov 04 01:31:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.052 min
Delta R.T.: -0.027 min
Response: 1921381
Conc: 16.06 ug/ml

Instrument :
FID_G
ClientSampleId :
PB164602BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014627.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 18:31
Sample : PB164602BL
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.052	14.961	15.116	BB	141534	1921381	100.00%	100.000%
Sum of corrected areas:						1921381		

FG102124.M Mon Nov 04 02:30:38 2024

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	11/01/24	
Project:	Rt. 10 Whippany		Date Received:	11/01/24	
Client Sample ID:	PIBLK-FG014617.D		SDG No.:	P4663	
Lab Sample ID:	I.BLK-FG014617.D		Matrix:	Water	
Analytical Method:	8015D TPH		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3510				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014617.D	1		11/01/24	FG110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	9.00	U	9.00	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	17.9		29 - 130	89%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014617.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 12:50
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 04 01:29:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.049	2136265	17.861 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014617.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 12:50
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

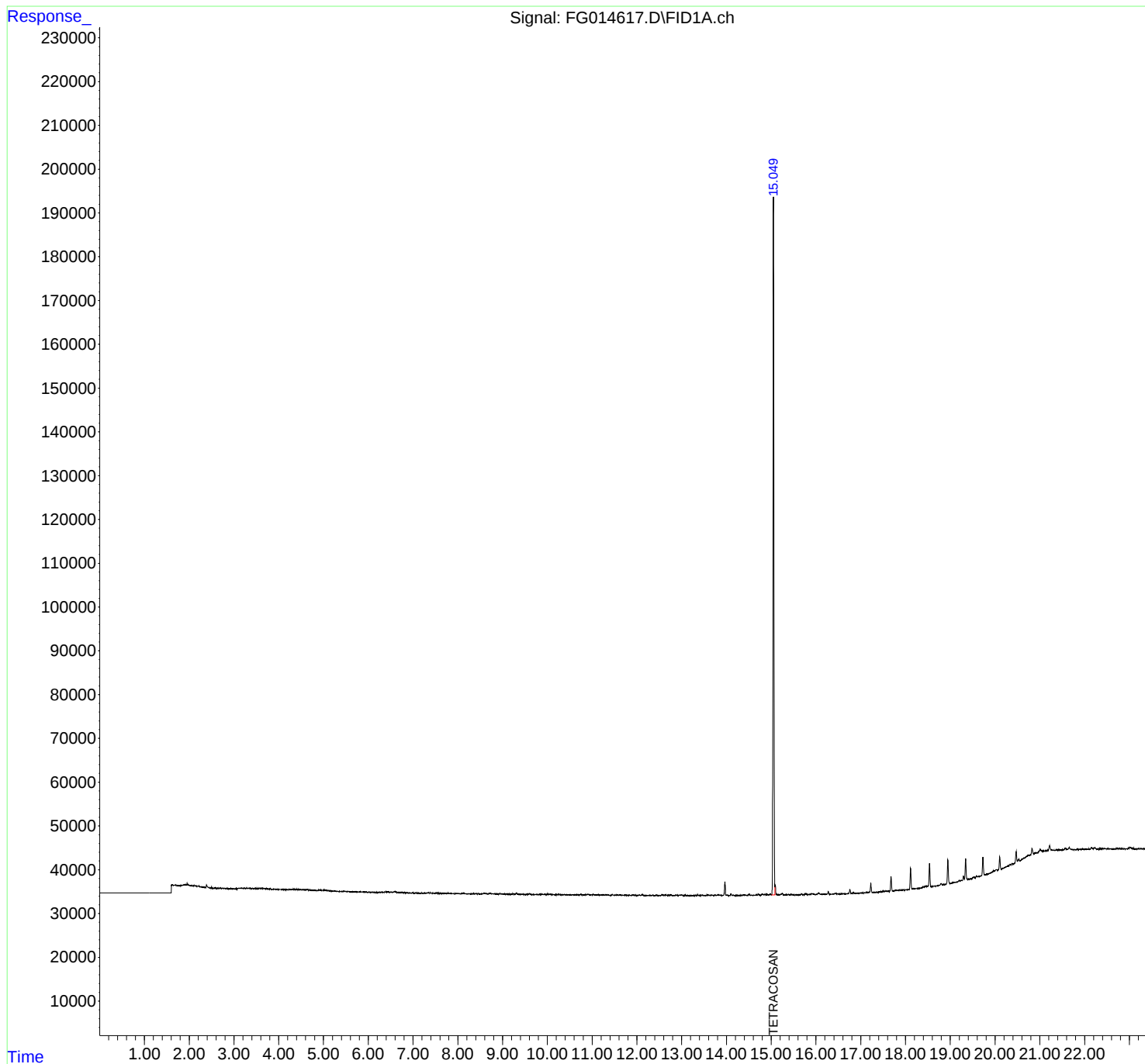
Instrument :
FID_G
ClientSampleId :
I.BLK

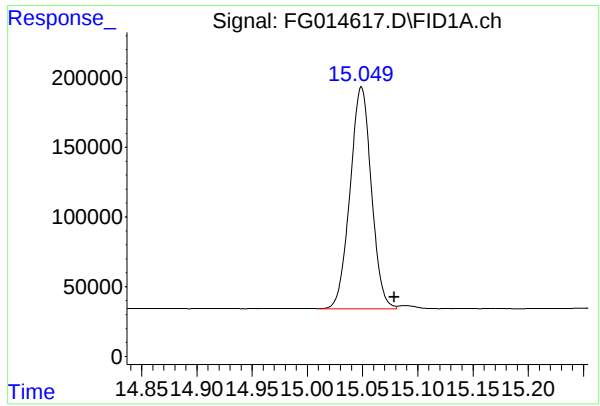
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 04 01:29:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.049 min
Delta R.T.: -0.030 min
Response: 2136265
Conc: 17.86 ug/ml

Instrument :

FID_G

ClientSampleId :

I.BLK

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :Ankita Jodhani 11/04/2024

rteres

Instrument :
FID_G
LabSampleId :
I.BLK
Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11012
Data File : FG014617.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 12:50
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

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Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.049	14.997	15.081	BV	159245	2135288	100.00%	100.000%
Sum of corrected areas:						2135288		

FG102124.M Mon Nov 04 02:26:13 2024

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/01/24
Project:	Rt. 10 Whippany	Date Received:	11/01/24
Client Sample ID:	PIBLK-FG014625.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-FG014625.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	TPH GC
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014625.D	1		11/01/24	FG110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	9.00	U	9.00	85.0	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_G\Data\FG110124\
Data File : FG014625.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 16:37
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Manual Integrations
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Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 04 01:30:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.054	2097897	17.540 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014625.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 16:37
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

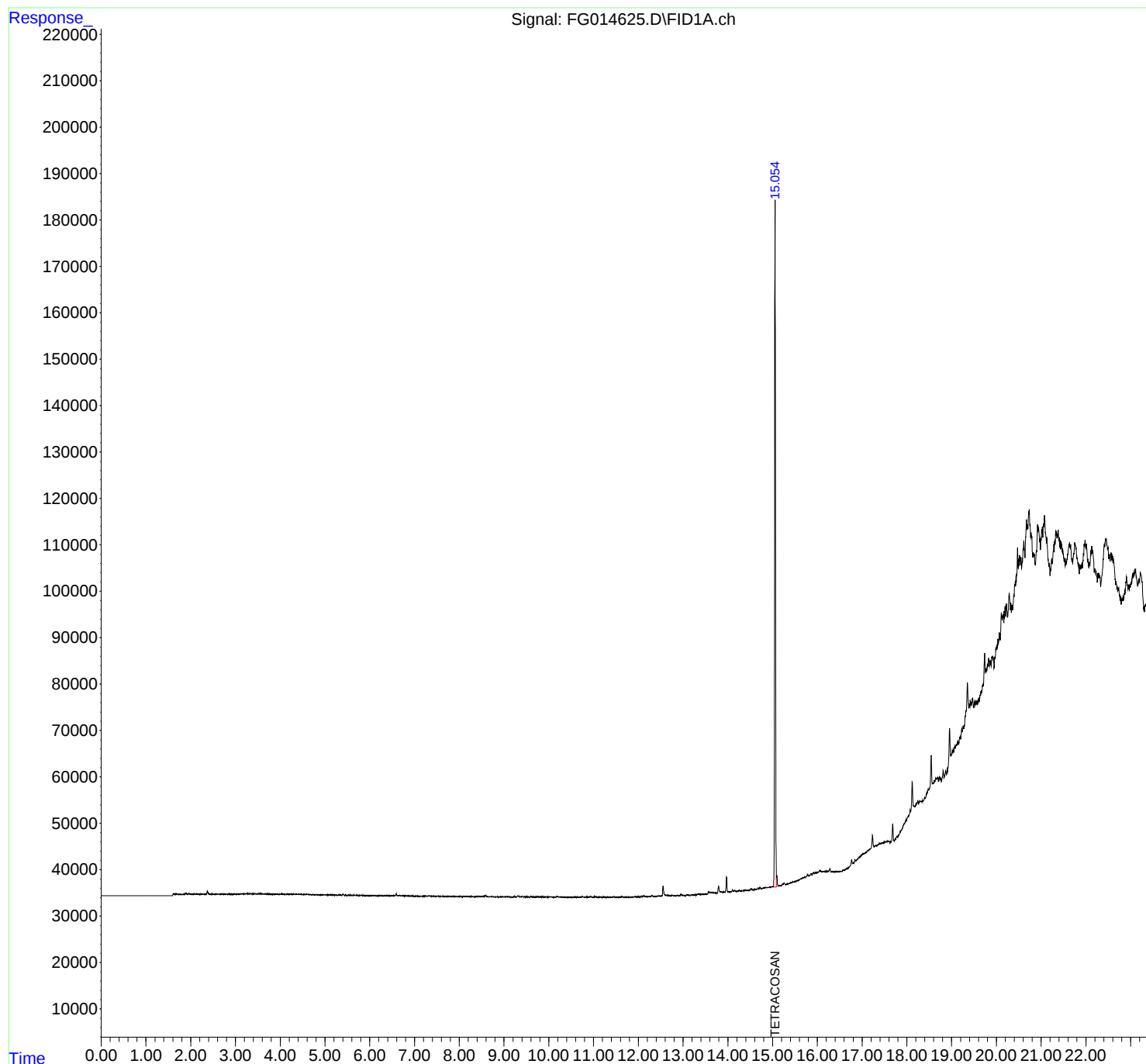
Instrument :
FID_G
ClientSampleId :
I.BLK

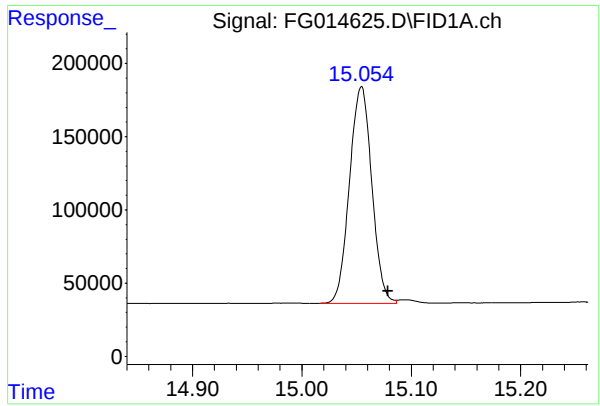
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 04 01:30:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.054 min
Delta R.T.: -0.024 min
Response: 2097897
Conc: 17.54 ug/ml

Instrument :

FID_G

ClientSampleId :

I.BLK

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :Ankita Jodhani 11/04/2024

rteres

Instrument :
FID_G
LabSampleId :
I.BLK
Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11012
Data File : FG014625.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 16:37
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.055	15.005	15.087	BV	147902	2095742	100.00%	100.000%
Sum of corrected areas:						2095742		

FG102124.M Mon Nov 04 02:29:04 2024

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	11/01/24	
Project:	Rt. 10 Whippany		Date Received:	11/01/24	
Client Sample ID:	PIBLK-FG014631.D		SDG No.:	P4663	
Lab Sample ID:	I.BLK-FG014631.D		Matrix:	Water	
Analytical Method:	8015D TPH		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3510				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014631.D	1		11/01/24	FG110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	9.00	U	9.00	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	19.4		29 - 130	97%	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\FG110124\
Data File : FG014631.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 20:25
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 04 01:31:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.053	2315412	19.359 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

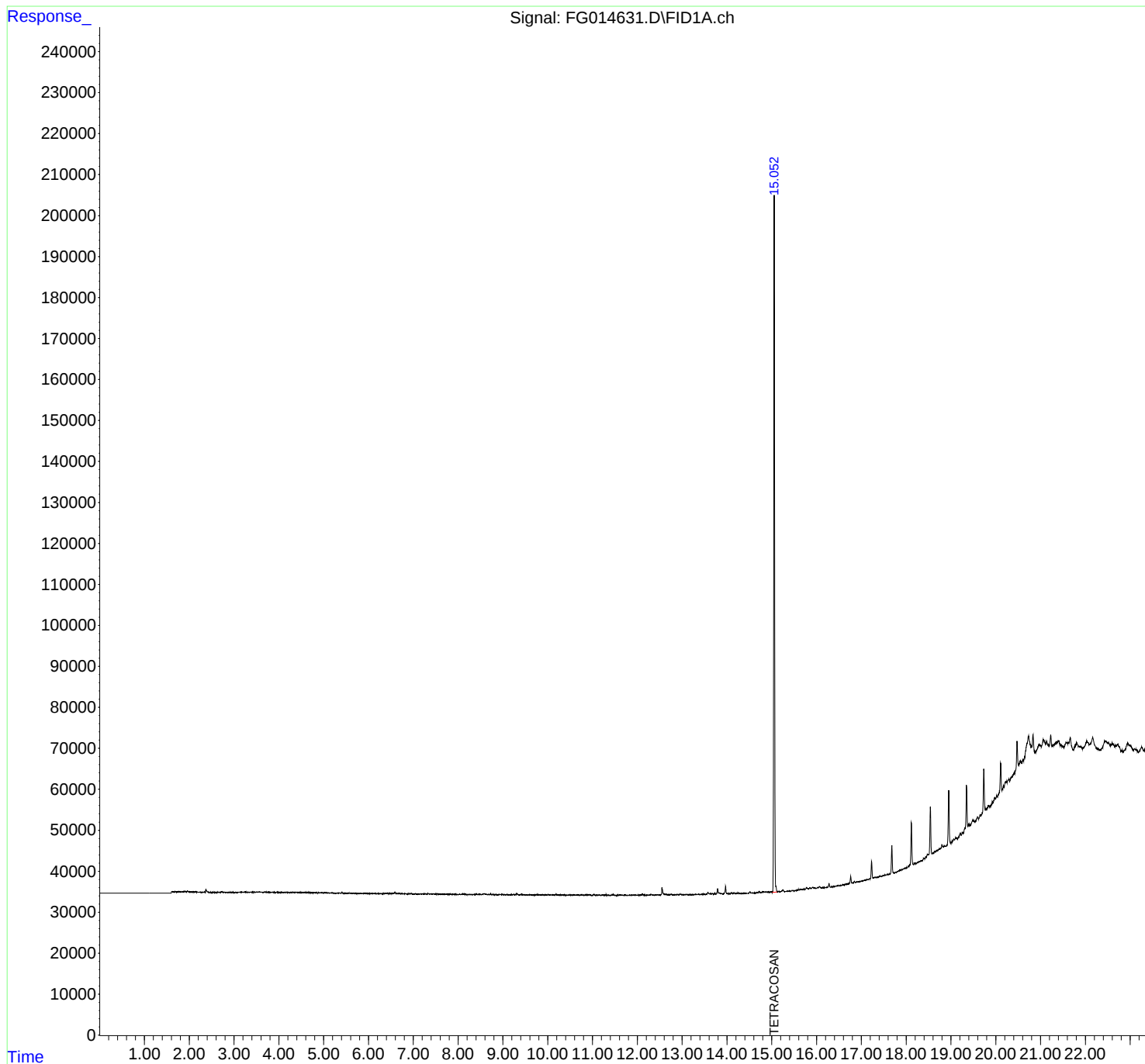
(m)=manual int.

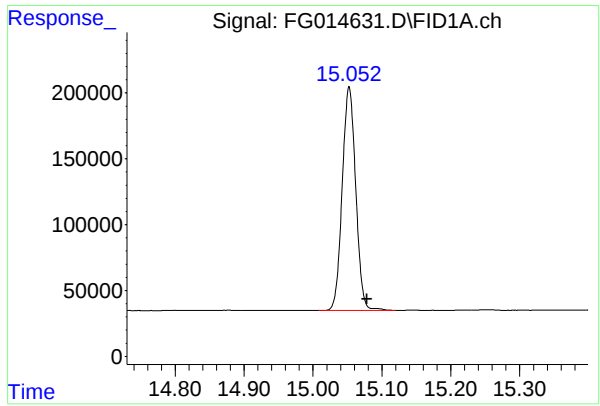
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014631.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 20:25
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 04 01:31:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.053 min

Delta R.T.: -0.026 min

Response: 2315412

Conc: 19.36 ug/ml

Instrument :

FID_G

ClientSampleId :

I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014631.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 20:25
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.053	15.008	15.120	BV	170037	2315412	100.00%	100.000%
Sum of corrected areas:						2315412		

FG102124.M Mon Nov 04 02:31:50 2024

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:		
Project:	Rt. 10 Whippany		Date Received:		
Client Sample ID:	PB164602BS		SDG No.:	P4663	
Lab Sample ID:	PB164602BS		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	100	Decanted:
Sample Wt/Vol:	30.03	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014628.D	1	11/01/24 11:35	11/01/24 19:00	PB164602

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	10300		318	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	16.5		37 - 130	82%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
 Data File : FG014628.D
 Signal(s) : FID1A.ch
 Acq On : 01 Nov 2024 19:00
 Operator : YP\AJ
 Sample : PB164602BS
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 PB164602BS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/04/2024
 Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
 Quant Time: Nov 04 01:31:21 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
 Quant Title :
 QLast Update : Mon Oct 21 17:03:32 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.053	1968603	16.459 ug/ml
Target Compounds			
1) N-OCTANE	2.065	2356919	19.543 ug/ml
2) N-DECANE	4.578	2789637	22.530 ug/ml
3) N-DODECANE	6.750	2915326	23.132 ug/ml
4) N-TETRADECANE	8.582	2862817	22.280 ug/ml
5) N-HEXADECANE	10.193	2912576	22.368 ug/ml
6) N-OCTADECANE	11.639	2986375	22.256 ug/ml
7) N-EICOSANE	12.952	2891756	21.210 ug/ml
8) N-DOCOSANE	14.152	2829442	21.313 ug/ml
10) N-TETRACOSANE	15.257	2786032	20.901 ug/ml
11) N-HEXACOSANE	16.278	2703480	20.311 ug/mlm
12) N-OCTACOSANE	17.229	2631027	19.840 ug/mlm
13) N-TRIACONTANE	18.117	2492137	18.616 ug/mlm
14) N-DOTRIACONTANE	18.951	2003831	15.150 ug/mlm
15) N-TETRATRIACONTANE	19.734	1363154	10.791 ug/ml
16) N-HEXATRIACONTANE	20.473	935516	8.083 ug/mlm
17) N-OCTATRIACONTANE	21.226	781960	7.390 ug/ml
18) N-TETRACONTANE	22.169	773340	8.141 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014628.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 19:00
Operator : YP\AJ
Sample : PB164602BS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :

FID_G

Client Sample Id :

PB164602BS

Manual Integrations

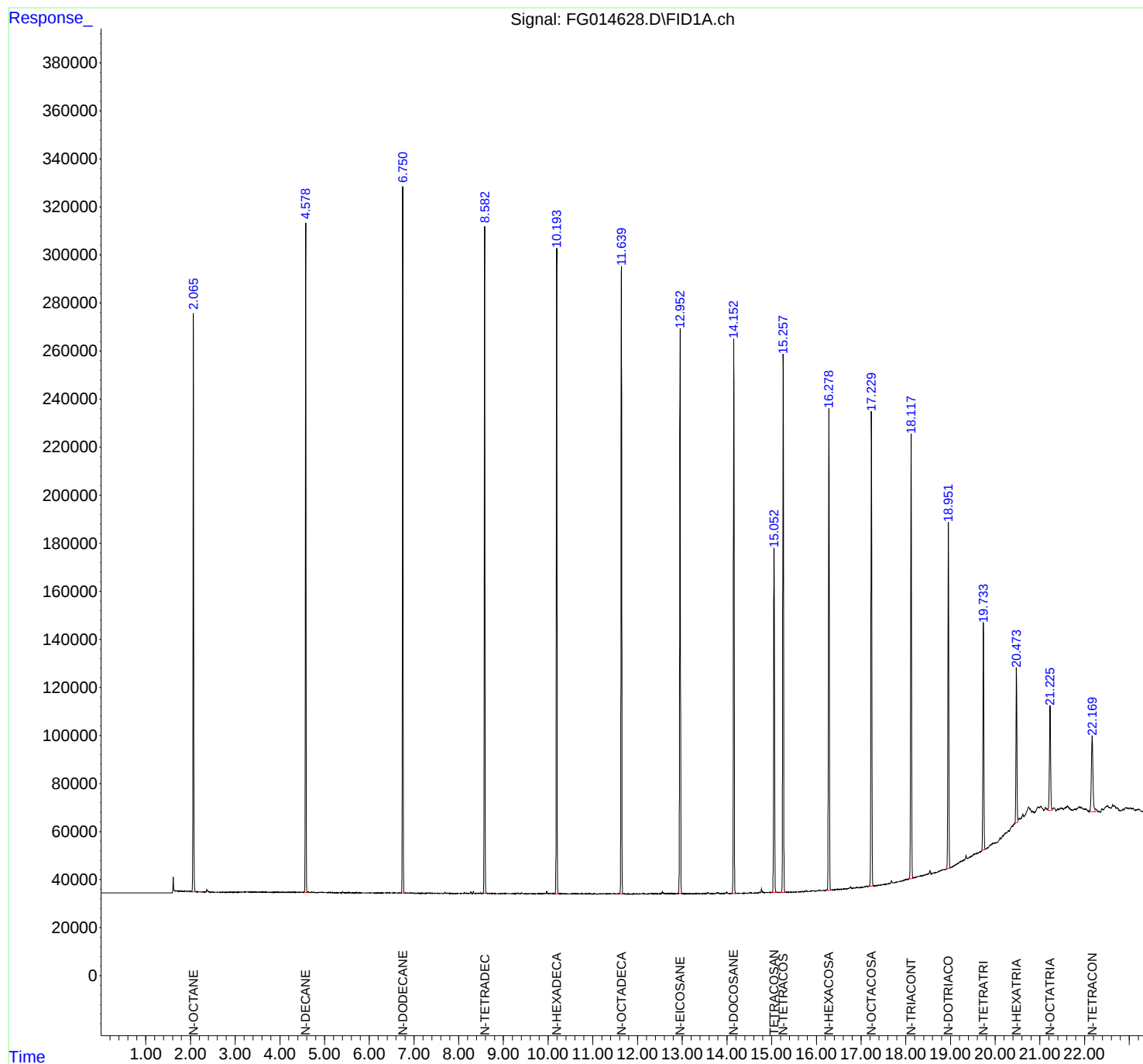
APPROVED

Reviewed By : Yogesh Patel 11/04/2024

Supervised By : Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 04 01:31:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_G
ClientSampleId :
PB164602BS
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

rteres

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11012
Data File : FG014628.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 19:00
Sample : PB164602BS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.065	2.028	2.142	BB	240933	2356919	78.92%	5.735%
2	4.578	4.535	4.636	BB	278633	2789637	93.41%	6.788%
3	6.750	6.667	6.793	BB	294138	2915326	97.62%	7.094%
4	8.582	8.513	8.628	BB	277279	2862817	95.86%	6.966%
5	10.193	10.144	10.250	BB	268784	2912576	97.53%	7.087%
6	11.639	11.547	11.693	BB	261253	2986375	100.00%	7.267%
7	12.952	12.902	12.989	BB	235432	2891756	96.83%	7.036%
8	14.152	14.116	14.198	BB	231013	2829442	94.75%	6.885%
9	15.053	14.998	15.125	BB	143288	1968603	65.92%	4.790%
10	15.257	15.196	15.310	BB	223899	2786032	93.29%	6.779%
11	16.279	16.174	16.323	BB	200379	2706593	90.63%	6.586%
12	17.229	17.044	17.288	BB	197283	2641539	88.45%	6.427%
13	18.118	17.723	18.158	BV	184933	2486167	83.25%	6.049%
14	18.951	18.750	18.989	BV	143962	2001203	67.01%	4.869%
15	19.734	19.700	19.777	BV	94519	1363154	45.65%	3.317%
16	20.474	20.200	20.509	BV	65461	1044031	34.96%	2.540%
17	21.226	21.179	21.273	VV	43408	781960	26.18%	1.903%
18	22.169	22.106	22.233	BV	31654	773340	25.90%	1.882%
Sum of corrected areas:						41097469		

FG102124.M Mon Nov 04 02:31:24 2024

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MS	SDG No.:	P4663
Lab Sample ID:	P4663-08MS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	91.3
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TPH GC
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014629.D	1	11/01/24 11:35	11/01/24 19:28	PB164602

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	19400		348	3100	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	12.4		37 - 130	62%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
 Data File : FG014629.D
 Signal(s) : FID1A.ch
 Acq On : 01 Nov 2024 19:28
 Operator : YP\AJ
 Sample : P4663-08MS
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 RES-BUILDING-PAD-NO-2MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/04/2024
 Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
 Quant Time: Nov 04 01:31:30 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
 Quant Title :
 QLast Update : Mon Oct 21 17:03:32 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.053	1486686	12.430 ug/ml
Target Compounds			
1) N-OCTANE	2.064	2340429	19.407 ug/ml
2) N-DECANE	4.579	2777655	22.434 ug/ml
3) N-DODECANE	6.750	2948698	23.396 ug/ml
4) N-TETRADECANE	8.582	2940454	22.884 ug/ml
5) N-HEXADECANE	10.193	3011595	23.129 ug/ml
6) N-OCTADECANE	11.640	3112642	23.197 ug/ml
7) N-EICOSANE	12.953	3027937	22.209 ug/ml
8) N-DOCOSANE	14.152	2983566	22.474 ug/ml
10) N-TETRACOSANE	15.257	2985251	22.396 ug/ml
11) N-HEXACOSANE	16.281	2907708	21.845 ug/ml
12) N-OCTACOSANE	17.230	2839422	21.411 ug/mlm
13) N-TRIACONTANE	18.120	2691985	20.109 ug/ml
14) N-DOTRIACONTANE	18.951	2236442	16.909 ug/ml
15) N-TETRATRIACONTANE	19.736	1464476	11.594 ug/ml
16) N-HEXATRIACONTANE	20.476	1022789	8.837 ug/mlm
17) N-OCTATRIACONTANE	21.227	853230	8.064 ug/ml
18) N-TETRACONTANE	22.170	930520	9.795 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014629.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 19:28
Operator : YP\AJ
Sample : P4663-08MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

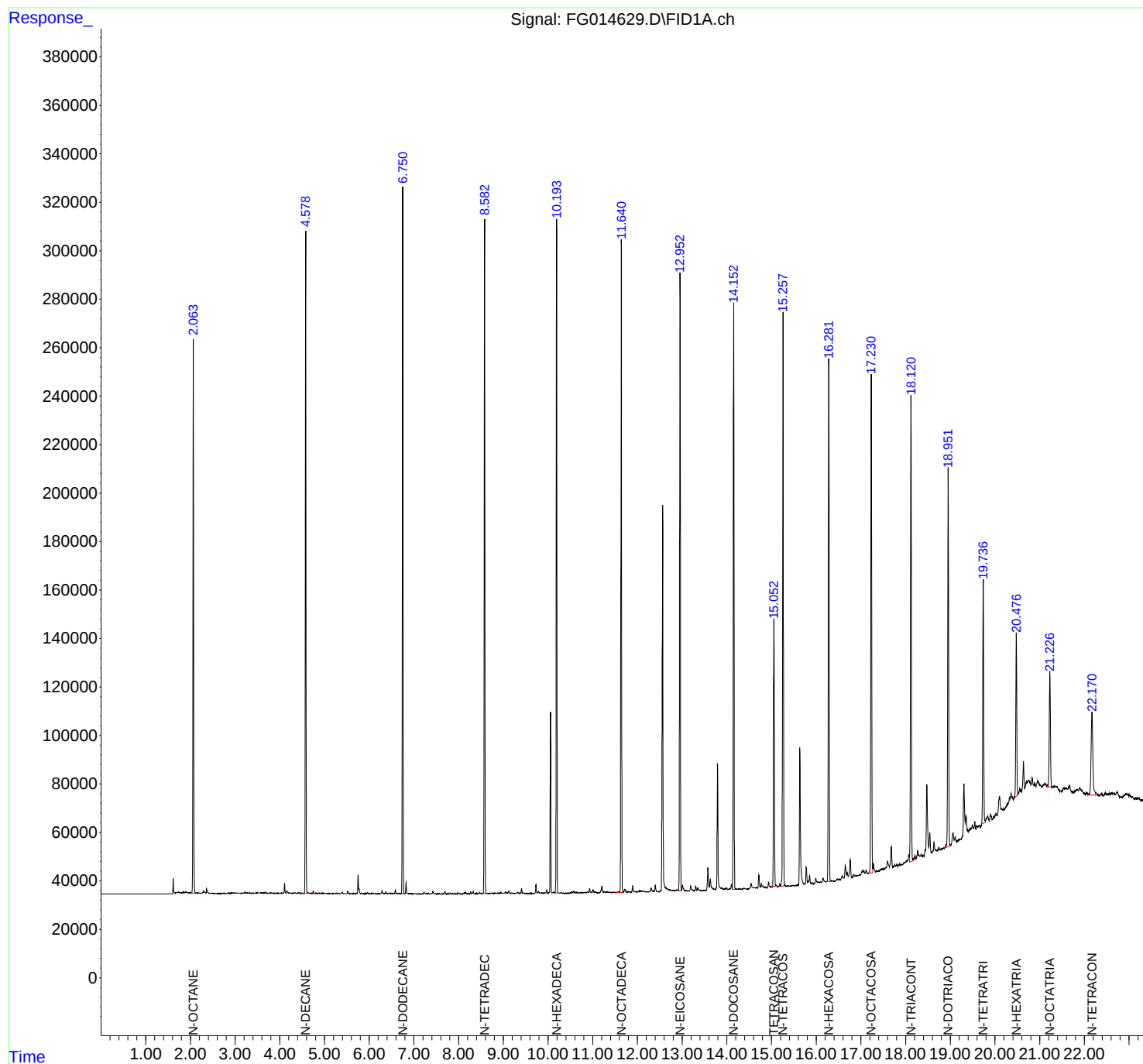
Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 04 01:31:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2MS
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

rteres

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124
Data File : FG014629.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 19:28
Sample : P4663-08MS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.931	1.912	1.942	BV	53	-741	-0.02%	-0.001%
2	1.958	1.942	1.968	PV	198	1527	0.05%	0.002%
3	1.972	1.968	1.987	VV	117	531	0.02%	0.001%
4	2.003	1.987	2.026	PV	403	3656	0.12%	0.005%
5	2.064	2.026	2.118	PV	228429	2341187	75.06%	3.420%
6	2.126	2.118	2.130	VV	169	959	0.03%	0.001%
7	2.136	2.130	2.143	VV	189	1321	0.04%	0.002%
8	2.147	2.143	2.166	VV	182	2006	0.06%	0.003%
9	2.171	2.166	2.178	VV	147	812	0.03%	0.001%
10	2.180	2.178	2.190	VV	157	647	0.02%	0.001%
11	2.195	2.190	2.204	VV	144	822	0.03%	0.001%
12	2.209	2.204	2.245	VV	124	2131	0.07%	0.003%
13	2.263	2.245	2.268	VV	258	2343	0.08%	0.003%
14	2.298	2.268	2.343	VV	954	22641	0.73%	0.033%
15	2.361	2.343	2.421	VV	2026	31029	0.99%	0.045%
16	2.426	2.421	2.445	VV	161	1743	0.06%	0.003%
17	2.459	2.445	2.477	VV	132	1922	0.06%	0.003%
18	2.482	2.477	2.495	VV	119	923	0.03%	0.001%
19	2.499	2.495	2.503	VV	110	392	0.01%	0.001%
20	2.507	2.503	2.513	VV	93	378	0.01%	0.001%
21	2.515	2.513	2.519	VV	98	173	0.01%	0.000%
22	2.536	2.519	2.552	PV	129	1508	0.05%	0.002%
23	2.568	2.552	2.583	VV	137	1362	0.04%	0.002%
24	2.590	2.583	2.604	VV	75	744	0.02%	0.001%
25	2.613	2.604	2.618	VV	70	451	0.01%	0.001%
26	2.627	2.618	2.642	VV	100	786	0.03%	0.001%
27	2.652	2.642	2.663	VV	87	577	0.02%	0.001%
28	2.671	2.663	2.675	VV	99	359	0.01%	0.001%
29	2.678	2.675	2.682	VV	73	153	0.00%	0.000%
30	2.695	2.682	2.700	PV	78	549	0.02%	0.001%
31	2.714	2.700	2.727	VV	247	2804	0.09%	0.004%
32	2.732	2.727	2.739	VV	180	901	0.03%	0.001%
33	2.754	2.739	2.784	VV	186	3658	0.12%	0.005%
34	2.789	2.784	2.798	VV	122	946	0.03%	0.001%
35	2.809	2.798	2.814	VV	138	1121	0.04%	0.002%
36	2.817	2.814	2.838	VV	165	1728	0.06%	0.003%

37	2.865	2.838	2.879	VV	194	3767	0.12%	0.006%
38	2.883	2.879	2.897	VV	195	1607	0.05%	0.002%
39	2.941	2.897	2.948	VV	353	7477	0.05%	0.002%
40	2.953	2.948	2.967	VV	320	3342	0.05%	0.002%
41	2.973	2.967	2.977	VV	255	1485	0.05%	0.002%
42	2.987	2.977	3.002	VV	301	3714	0.05%	0.002%
43	3.016	3.002	3.043	VV	360	6813	0.22%	0.010%
44	3.046	3.043	3.051	VV	252	1049	0.03%	0.002%
45	3.070	3.051	3.086	VV	383	5941	0.19%	0.009%
46	3.090	3.086	3.114	VV	252	3887	0.12%	0.006%
47	3.118	3.114	3.126	VV	241	1549	0.05%	0.002%
48	3.131	3.126	3.139	VV	254	1682	0.05%	0.002%
49	3.152	3.139	3.159	VV	277	2727	0.09%	0.004%
50	3.164	3.159	3.169	VV	241	1100	0.04%	0.002%
51	3.173	3.169	3.178	VV	196	989	0.03%	0.001%
52	3.210	3.178	3.225	VV	507	9802	0.31%	0.014%
53	3.230	3.225	3.237	VV	377	2517	0.08%	0.004%
54	3.252	3.237	3.264	VV	400	5686	0.18%	0.008%
55	3.269	3.264	3.297	VV	293	5054	0.16%	0.007%
56	3.305	3.297	3.311	VV	271	2008	0.06%	0.003%
57	3.322	3.311	3.343	VV	410	5883	0.19%	0.009%
58	3.350	3.343	3.355	VV	249	1624	0.05%	0.002%
59	3.362	3.355	3.377	VV	361	3244	0.10%	0.005%
60	3.383	3.377	3.410	VV	296	4765	0.15%	0.007%
61	3.414	3.410	3.419	VV	257	1171	0.04%	0.002%
62	3.427	3.419	3.439	VV	239	2708	0.09%	0.004%
63	3.443	3.439	3.458	VV	284	2720	0.09%	0.004%
64	3.487	3.458	3.515	VV	403	11514	0.37%	0.017%
65	3.518	3.515	3.541	VV	378	5310	0.17%	0.008%
66	3.544	3.541	3.551	VV	344	1927	0.06%	0.003%
67	3.558	3.551	3.588	VV	350	6841	0.22%	0.010%
68	3.592	3.588	3.605	VV	328	2891	0.09%	0.004%
69	3.625	3.605	3.629	VV	337	4350	0.14%	0.006%
70	3.638	3.629	3.668	VV	341	7277	0.23%	0.011%
71	3.687	3.668	3.725	VV	742	13954	0.45%	0.020%
72	3.740	3.725	3.761	VV	270	5272	0.17%	0.008%
73	3.778	3.761	3.782	VV	362	3641	0.12%	0.005%
74	3.787	3.782	3.792	VV	357	2015	0.06%	0.003%
75	3.796	3.792	3.800	VV	331	1414	0.05%	0.002%
76	3.802	3.800	3.818	VV	382	3035	0.10%	0.004%
77	3.823	3.818	3.834	VV	286	2317	0.07%	0.003%
78	3.839	3.834	3.845	VV	276	1458	0.05%	0.002%
79	3.858	3.845	3.875	VV	261	3964	0.13%	0.006%
80	3.878	3.875	3.891	VV	246	2084	0.07%	0.003%
81	3.894	3.891	3.899	VV	254	1156	0.04%	0.002%
82	3.913	3.899	3.928	VV	308	4360	0.14%	0.006%
83	3.939	3.928	3.945	VV	238	2113	0.07%	0.003%
84	3.953	3.945	3.960	VV	252	1995	0.06%	0.003%
85	3.968	3.960	3.993	VV	323	4813	0.15%	0.007%
86	4.011	3.993	4.027	VV	311	5092	0.16%	0.007%
87	4.039	4.027	4.064	VV	383	6664	0.21%	0.010%
88	4.107	4.064	4.135	VV	4328	47256	1.51%	0.069%
89	4.159	4.135	4.205	VV	1319	25037	0.80%	0.037%

Instrument :

FID_G

ClientSampleId :

RES-BUILDING-PAD-NO-2MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :Ankita Jodhani 11/04/2024

90	4.219	4.205	4.257	VV	383	9854	0.32%	0.014%
91	4.261	4.257	4.272	VV	260	2039		
92	4.278	4.272	4.287	VV	287	2233		
93	4.301	4.287	4.328	VV	338	7153		
94	4.349	4.328	4.380	VV	520	10776		
95	4.406	4.380	4.411	VV	420	6104		
96	4.423	4.411	4.450	VV	568	9353	0.30%	0.014%
97	4.454	4.450	4.463	VV	264	1980	0.06%	0.003%
98	4.471	4.463	4.490	VV	300	4044	0.13%	0.006%
99	4.494	4.490	4.498	VV	269	1159	0.04%	0.002%
100	4.503	4.498	4.512	VV	250	1815	0.06%	0.003%
101	4.523	4.512	4.528	VV	298	2483	0.08%	0.004%
102	4.538	4.528	4.546	VV	286	2760	0.09%	0.004%
103	4.579	4.546	4.613	VV	273402	2780371	89.13%	4.061%
104	4.617	4.613	4.644	VV	668	9014	0.29%	0.013%
105	4.649	4.644	4.662	VV	370	3304	0.11%	0.005%
106	4.666	4.662	4.671	VV	296	1464	0.05%	0.002%
107	4.675	4.671	4.679	VV	293	1275	0.04%	0.002%
108	4.686	4.679	4.724	VV	291	6328	0.20%	0.009%
109	4.748	4.724	4.783	VV	1215	16437	0.53%	0.024%
110	4.796	4.783	4.836	VV	292	7654	0.25%	0.011%
111	4.841	4.836	4.849	VV	199	1313	0.04%	0.002%
112	4.862	4.849	4.873	VV	281	3272	0.10%	0.005%
113	4.885	4.873	4.903	VV	296	4229	0.14%	0.006%
114	4.908	4.903	4.912	VV	206	1019	0.03%	0.001%
115	4.919	4.912	4.923	VV	210	1275	0.04%	0.002%
116	4.948	4.923	4.975	VV	372	7817	0.25%	0.011%
117	4.981	4.975	4.989	VV	242	1774	0.06%	0.003%
118	4.996	4.989	5.009	VV	257	2747	0.09%	0.004%
119	5.012	5.009	5.022	VV	248	1671	0.05%	0.002%
120	5.028	5.022	5.036	VV	270	1831	0.06%	0.003%
121	5.040	5.036	5.046	VV	196	1095	0.04%	0.002%
122	5.054	5.046	5.064	VV	249	2363	0.08%	0.003%
123	5.078	5.064	5.085	VV	247	2598	0.08%	0.004%
124	5.102	5.085	5.115	VV	233	3250	0.10%	0.005%
125	5.127	5.115	5.147	VV	181	2837	0.09%	0.004%
126	5.151	5.147	5.155	VV	147	689	0.02%	0.001%
127	5.172	5.155	5.194	VV	259	4351	0.14%	0.006%
128	5.199	5.194	5.204	VV	190	944	0.03%	0.001%
129	5.238	5.204	5.253	VV	437	8331	0.27%	0.012%
130	5.275	5.253	5.286	VV	358	5061	0.16%	0.007%
131	5.290	5.286	5.308	VV	274	3032	0.10%	0.004%
132	5.311	5.308	5.317	VV	181	864	0.03%	0.001%
133	5.331	5.317	5.350	VV	217	3268	0.10%	0.005%
134	5.354	5.350	5.367	VV	173	1464	0.05%	0.002%
135	5.377	5.367	5.381	VV	175	1342	0.04%	0.002%
136	5.397	5.381	5.422	VV	837	10333	0.33%	0.015%
137	5.426	5.422	5.431	VV	162	693	0.02%	0.001%
138	5.435	5.431	5.454	VV	153	1657	0.05%	0.002%
139	5.467	5.454	5.477	VV	157	1852	0.06%	0.003%
140	5.488	5.477	5.492	VV	151	1197	0.04%	0.002%
141	5.496	5.492	5.501	VV	171	676	0.02%	0.001%

Instrument :

FID_G

ClientSampleId :

RES-BUILDING-PAD-NO-2MS

0.32% 0.014%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :Ankita Jodhani 11/04/2024

					rters			
142	5.522	5.501	5.541	VV	1172	14057	0.45%	0.021%
143	5.547	5.541	5.577	VV	249	4004		
144	5.594	5.577	5.605	VV	260	2888		
145	5.609	5.605	5.613	VV	169	607		
146	5.618	5.613	5.630	VV	144	1076		
147	5.634	5.630	5.640	VV	128	559		
148	5.652	5.640	5.666	VV	221	1848	0.06%	0.003%
149	5.672	5.666	5.688	VV	166	1436	0.05%	0.002%
150	5.694	5.688	5.699	VV	120	689	0.02%	0.001%
151	5.717	5.699	5.733	VV	462	5458	0.17%	0.008%
152	5.752	5.733	5.768	VV	7916	75948	2.43%	0.111%
153	5.775	5.768	5.810	VV	2258	21881	0.70%	0.032%
154	5.826	5.810	5.854	VV	471	7018	0.22%	0.010%
155	5.858	5.854	5.881	VV	153	2013	0.06%	0.003%
156	5.906	5.881	5.929	VV	384	4741	0.15%	0.007%
157	5.935	5.929	5.940	VV	150	776	0.02%	0.001%
158	5.962	5.940	5.993	VV	692	10941	0.35%	0.016%
159	5.997	5.993	6.002	VV	226	1058	0.03%	0.002%
160	6.008	6.002	6.020	VV	201	1679	0.05%	0.002%
161	6.042	6.020	6.067	VV	490	6674	0.21%	0.010%
162	6.090	6.067	6.119	VV	466	8286	0.27%	0.012%
163	6.122	6.119	6.135	VV	161	1133	0.04%	0.002%
164	6.159	6.135	6.179	VV	263	4376	0.14%	0.006%
165	6.193	6.179	6.218	VV	306	4227	0.14%	0.006%
166	6.227	6.218	6.237	VV	206	1791	0.06%	0.003%
167	6.258	6.237	6.268	VV	229	3562	0.11%	0.005%
168	6.287	6.268	6.331	VV	1382	21181	0.68%	0.031%
169	6.335	6.331	6.342	VV	267	1791	0.06%	0.003%
170	6.346	6.342	6.354	VV	259	1693	0.05%	0.002%
171	6.372	6.354	6.394	VV	975	12979	0.42%	0.019%
172	6.398	6.394	6.421	VV	286	3622	0.12%	0.005%
173	6.442	6.421	6.450	VV	358	4397	0.14%	0.006%
174	6.465	6.450	6.484	VV	490	7365	0.24%	0.011%
175	6.493	6.484	6.513	VV	378	5451	0.17%	0.008%
176	6.519	6.513	6.529	VV	267	2157	0.07%	0.003%
177	6.545	6.529	6.562	VV	351	5497	0.18%	0.008%
178	6.586	6.562	6.628	VV	1689	25289	0.81%	0.037%
179	6.640	6.628	6.655	VV	319	3903	0.13%	0.006%
180	6.661	6.655	6.666	VV	257	1357	0.04%	0.002%
181	6.676	6.666	6.692	VV	264	3263	0.10%	0.005%
182	6.700	6.692	6.709	VV	204	1550	0.05%	0.002%
183	6.750	6.709	6.794	VV	291967	2956809	94.79%	4.319%
184	6.798	6.794	6.804	VV	199	1063	0.03%	0.002%
185	6.825	6.804	6.871	VV	4755	51269	1.64%	0.075%
186	6.880	6.871	6.891	VV	295	3035	0.10%	0.004%
187	6.902	6.891	6.936	VV	405	6706	0.21%	0.010%
188	6.940	6.936	6.949	VV	171	1087	0.03%	0.002%
189	6.953	6.949	6.969	VV	176	1406	0.05%	0.002%
190	6.978	6.969	6.991	VV	154	1648	0.05%	0.002%
191	7.028	6.991	7.053	VV	319	6162	0.20%	0.009%
192	7.058	7.053	7.063	PV	76	336	0.01%	0.000%
193	7.077	7.063	7.092	VV	138	1591	0.05%	0.002%
194	7.097	7.092	7.107	VV	120	875	0.03%	0.001%

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Manual IntegrationsAPPROVED

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195	7.115	7.107	7.120	VV	184	932	0.03%	0.001%
196	7.127	7.120	7.132	VV	191	1083		
197	7.137	7.132	7.144	VV	171	949		
198	7.149	7.144	7.155	VV	148	672		
199	7.161	7.155	7.182	VV	108	1077		
200	7.227	7.182	7.267	VV	822	18572		
201	7.281	7.267	7.308	VV	338	5981	0.19%	0.009%
202	7.324	7.308	7.355	VV	382	5680	0.18%	0.008%
203	7.380	7.355	7.401	VV	245	4683	0.15%	0.007%
204	7.424	7.401	7.455	VV	1224	17004	0.55%	0.025%
205	7.472	7.455	7.500	VV	387	6067	0.19%	0.009%
206	7.506	7.500	7.513	VV	84	441	0.01%	0.001%
207	7.529	7.513	7.551	VV	165	2478	0.08%	0.004%
208	7.563	7.551	7.597	VV	391	5178	0.17%	0.008%
209	7.605	7.597	7.616	VV	92	745	0.02%	0.001%
210	7.621	7.616	7.626	VV	52	231	0.01%	0.000%
211	7.653	7.626	7.675	VV	169	2990	0.10%	0.004%
212	7.697	7.675	7.729	VV	1083	13290	0.43%	0.019%
213	7.734	7.729	7.743	VV	72	323	0.01%	0.000%
214	7.762	7.743	7.777	PV	355	4177	0.13%	0.006%
215	7.782	7.777	7.795	VV	181	1157	0.04%	0.002%
216	7.815	7.795	7.863	VV	493	9313	0.30%	0.014%
217	7.872	7.863	7.901	VV	162	2181	0.07%	0.003%
218	7.916	7.901	7.948	VV	498	5675	0.18%	0.008%
219	7.950	7.948	7.956	VV	75	261	0.01%	0.000%
220	7.965	7.956	7.970	VV	120	681	0.02%	0.001%
221	7.987	7.970	8.018	VV	617	8234	0.26%	0.012%
222	8.041	8.018	8.058	VV	307	4322	0.14%	0.006%
223	8.067	8.058	8.091	VV	129	1555	0.05%	0.002%
224	8.123	8.091	8.143	VV	552	10808	0.35%	0.016%
225	8.156	8.143	8.175	VV	775	9046	0.29%	0.013%
226	8.184	8.175	8.204	VV	341	3726	0.12%	0.005%
227	8.228	8.204	8.250	VV	269	3412	0.11%	0.005%
228	8.273	8.250	8.293	PV	1027	12255	0.39%	0.018%
229	8.330	8.293	8.369	VV	1193	19192	0.62%	0.028%
230	8.401	8.369	8.429	VV	560	7783	0.25%	0.011%
231	8.434	8.429	8.438	VV	168	742	0.02%	0.001%
232	8.471	8.438	8.500	VV	738	13835	0.44%	0.020%
233	8.505	8.500	8.511	VV	214	1240	0.04%	0.002%
234	8.521	8.511	8.525	VV	237	1728	0.06%	0.003%
235	8.582	8.525	8.618	VV	278412	2951278	94.61%	4.311%
236	8.629	8.618	8.654	VV	372	5160	0.17%	0.008%
237	8.671	8.654	8.675	VV	216	2318	0.07%	0.003%
238	8.688	8.675	8.703	VV	286	3942	0.13%	0.006%
239	8.740	8.703	8.758	VV	399	9044	0.29%	0.013%
240	8.772	8.758	8.788	VV	276	4020	0.13%	0.006%
241	8.812	8.788	8.835	VV	508	7827	0.25%	0.011%
242	8.848	8.835	8.861	VV	312	3899	0.12%	0.006%
243	8.875	8.861	8.901	VV	515	8093	0.26%	0.012%
244	8.944	8.901	8.969	VV	604	12807	0.41%	0.019%
245	8.991	8.969	9.000	VV	333	5194	0.17%	0.008%
246	9.003	9.000	9.020	VV	304	3324	0.11%	0.005%

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0.03% 0.001%

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					riteres			
247	9.050	9.020	9.069	VV	915	15562	0.50%	0.023%
248	9.074	9.069	9.095	VV	397	4797		
249	9.121	9.095	9.156	VV	1165	19304		
250	9.181	9.156	9.196	VV	386	6863		
251	9.200	9.196	9.223	VV	396	4439		
252	9.232	9.223	9.237	VV	241	1456		
253	9.241	9.237	9.247	VV	214	1088	0.03%	0.002%
254	9.275	9.247	9.294	VV	308	6426	0.21%	0.009%
255	9.321	9.294	9.349	VV	619	13572	0.44%	0.020%
256	9.353	9.349	9.370	VV	266	2576	0.08%	0.004%
257	9.377	9.370	9.382	VV	219	1343	0.04%	0.002%
258	9.409	9.382	9.452	VV	2098	29857	0.96%	0.044%
259	9.463	9.452	9.478	VV	188	2374	0.08%	0.003%
260	9.494	9.478	9.523	VV	252	4155	0.13%	0.006%
261	9.526	9.523	9.530	VV	71	246	0.01%	0.000%
262	9.534	9.530	9.540	VV	87	415	0.01%	0.001%
263	9.548	9.540	9.579	VV	146	1708	0.05%	0.002%
264	9.600	9.579	9.607	PV	199	2185	0.07%	0.003%
265	9.614	9.607	9.619	VV	239	1341	0.04%	0.002%
266	9.625	9.619	9.639	VV	226	2032	0.07%	0.003%
267	9.643	9.639	9.659	VV	179	1445	0.05%	0.002%
268	9.673	9.659	9.677	VV	153	1118	0.04%	0.002%
269	9.689	9.677	9.695	VV	142	1199	0.04%	0.002%
270	9.699	9.695	9.703	VV	210	699	0.02%	0.001%
271	9.731	9.703	9.763	VV	3701	44398	1.42%	0.065%
272	9.788	9.763	9.816	VV	875	16728	0.54%	0.024%
273	9.833	9.816	9.842	VV	337	4234	0.14%	0.006%
274	9.865	9.842	9.890	VV	370	7728	0.25%	0.011%
275	9.920	9.890	9.939	VV	344	6664	0.21%	0.010%
276	9.971	9.939	9.998	VV	1372	18517	0.59%	0.027%
277	10.057	9.998	10.095	VV	74932	780687	25.03%	1.140%
278	10.125	10.095	10.143	VV	709	12009	0.38%	0.018%
279	10.147	10.143	10.157	VV	299	2512	0.08%	0.004%
280	10.193	10.157	10.231	VV	278287	3019894	96.81%	4.411%
281	10.238	10.231	10.244	VV	169	1205	0.04%	0.002%
282	10.248	10.244	10.253	VV	178	869	0.03%	0.001%
283	10.262	10.253	10.267	VV	237	1744	0.06%	0.003%
284	10.275	10.267	10.280	VV	260	1714	0.05%	0.003%
285	10.295	10.280	10.316	VV	451	6077	0.19%	0.009%
286	10.321	10.316	10.326	VV	144	544	0.02%	0.001%
287	10.332	10.326	10.350	VV	120	1133	0.04%	0.002%
288	10.361	10.350	10.383	VV	150	1896	0.06%	0.003%
289	10.386	10.383	10.391	VV	118	401	0.01%	0.001%
290	10.395	10.391	10.401	VV	82	362	0.01%	0.001%
291	10.411	10.401	10.416	VV	106	589	0.02%	0.001%
292	10.422	10.416	10.442	VV	119	981	0.03%	0.001%
293	10.446	10.442	10.450	PV	73	238	0.01%	0.000%
294	10.462	10.450	10.474	VV	121	1043	0.03%	0.002%
295	10.494	10.474	10.509	VV	271	3447	0.11%	0.005%
296	10.531	10.509	10.556	VV	709	10648	0.34%	0.016%
297	10.581	10.556	10.603	VV	943	14892	0.48%	0.022%
298	10.629	10.603	10.657	VV	425	9603	0.31%	0.014%
299	10.667	10.657	10.696	VV	313	4597	0.15%	0.007%

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Manual IntegrationsAPPROVED

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					rters			
300	10.730	10.696	10.764	VV	365	9037	0.29%	0.013%
301	10.791	10.764	10.804	VV	305	5152		
302	10.818	10.804	10.822	VV	305	2897		
303	10.833	10.822	10.850	VV	305	4339		
304	10.883	10.850	10.900	VV	652	11341		
305	10.932	10.900	10.976	VV	1841	30461		
306	11.005	10.976	11.048	VV	1360	26767	0.86%	0.039%
307	11.066	11.048	11.097	VV	461	8550	0.27%	0.012%
308	11.101	11.097	11.116	VV	124	844	0.03%	0.001%
309	11.131	11.116	11.137	PV	120	845	0.03%	0.001%
310	11.153	11.137	11.160	VV	173	2077	0.07%	0.003%
311	11.183	11.160	11.190	VV	977	10789	0.35%	0.016%
312	11.204	11.190	11.232	VV	2743	35467	1.14%	0.052%
313	11.236	11.232	11.242	VV	250	1457	0.05%	0.002%
314	11.257	11.242	11.287	VV	622	9860	0.32%	0.014%
315	11.304	11.287	11.318	VV	379	5511	0.18%	0.008%
316	11.324	11.318	11.342	VV	359	4429	0.14%	0.006%
317	11.356	11.342	11.370	VV	280	4007	0.13%	0.006%
318	11.390	11.370	11.417	VV	316	5086	0.16%	0.007%
319	11.420	11.417	11.425	VV	123	395	0.01%	0.001%
320	11.430	11.425	11.432	VV	81	295	0.01%	0.000%
321	11.450	11.432	11.465	VV	275	3818	0.12%	0.006%
322	11.472	11.465	11.486	VV	184	1962	0.06%	0.003%
323	11.497	11.486	11.510	VV	274	2474	0.08%	0.004%
324	11.514	11.510	11.529	VV	109	811	0.03%	0.001%
325	11.539	11.529	11.543	VV	166	867	0.03%	0.001%
326	11.547	11.543	11.552	VV	175	728	0.02%	0.001%
327	11.640	11.552	11.679	VV	269625	3119294	100.00%	4.556%
328	11.717	11.679	11.769	VV	1350	32480	1.04%	0.047%
329	11.796	11.769	11.818	VV	410	6221	0.20%	0.009%
330	11.833	11.818	11.862	VV	429	4577	0.15%	0.007%
331	11.893	11.862	11.932	PV	2858	40891	1.31%	0.060%
332	11.945	11.932	11.971	VV	445	7897	0.25%	0.012%
333	11.989	11.971	12.003	VV	321	4349	0.14%	0.006%
334	12.030	12.003	12.035	VV	373	5446	0.17%	0.008%
335	12.055	12.035	12.088	VV	864	15028	0.48%	0.022%
336	12.104	12.088	12.112	VV	526	6052	0.19%	0.009%
337	12.121	12.112	12.154	VV	585	9337	0.30%	0.014%
338	12.164	12.154	12.180	VV	317	3722	0.12%	0.005%
339	12.186	12.180	12.201	VV	202	1894	0.06%	0.003%
340	12.206	12.201	12.219	VV	169	1340	0.04%	0.002%
341	12.246	12.219	12.251	VV	220	2458	0.08%	0.004%
342	12.261	12.251	12.273	VV	248	2625	0.08%	0.004%
343	12.309	12.273	12.342	VV	1763	34915	1.12%	0.051%
344	12.363	12.342	12.377	VV	473	7323	0.23%	0.011%
345	12.400	12.377	12.453	VV	2895	45416	1.46%	0.066%
346	12.461	12.453	12.492	VV	386	4772	0.15%	0.007%
347	12.565	12.492	12.624	PV	159722	2154315	69.06%	3.147%
348	12.637	12.624	12.656	VV	1850	30859	0.99%	0.045%
349	12.666	12.656	12.710	VV	1329	32536	1.04%	0.048%
350	12.723	12.710	12.759	VV	903	20577	0.66%	0.030%
351	12.778	12.759	12.791	VV	632	10379	0.33%	0.015%

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0.29% 0.013%

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Sl. No	Time	Area	Height	Area%	Height%	Area%	Height%	
352	12.808	12.791	12.820	VV	459	6835	0.22%	0.010%
353	12.840	12.820	12.850	VV	445	6231	0.22%	0.010%
354	12.887	12.850	12.911	VV	748	19982	0.31%	0.040%
355	12.953	12.911	12.985	VV	255307	3038849	97.15%	99.940%
							Manual IntegrationsAPPROVED	
							Reviewed By :Yogesh Patel 11/04/2024	
							Supervised By :Ankita Jodhani 11/04/2024	
356	13.007	12.985	13.056	VV	2642	52041	1.08%	0.037%
357	13.069	13.056	13.097	VV	404	6619	0.16%	0.005%
358	13.107	13.097	13.125	VV	210	2662	0.09%	0.004%
359	13.131	13.125	13.155	VV	182	2001	0.06%	0.003%
360	13.190	13.155	13.277	VV	2257	49232	1.58%	0.072%
361	13.304	13.277	13.328	VV	2135	25042	0.80%	0.037%
362	13.349	13.328	13.383	VV	1357	23600	0.76%	0.034%
363	13.399	13.383	13.412	VV	279	3712	0.12%	0.005%
364	13.422	13.412	13.431	VV	195	1654	0.05%	0.002%
365	13.435	13.431	13.442	VV	175	1032	0.03%	0.002%
366	13.445	13.442	13.471	VV	203	2756	0.09%	0.004%
367	13.482	13.471	13.487	VV	200	1490	0.05%	0.002%
368	13.509	13.487	13.529	VV	352	4826	0.15%	0.007%
369	13.576	13.529	13.608	PV	9410	151965	4.87%	0.222%
370	13.629	13.608	13.701	VV	4747	108333	3.47%	0.158%
371	13.709	13.701	13.742	VV	673	12382	0.40%	0.018%
372	13.792	13.742	13.875	VV	52471	681374	21.84%	0.995%
373	13.891	13.875	13.920	VV	857	17057	0.55%	0.025%
374	13.941	13.920	13.953	VV	417	7162	0.23%	0.010%
375	13.958	13.953	13.963	VV	438	2180	0.07%	0.003%
376	13.996	13.963	14.027	VV	940	19180	0.61%	0.028%
377	14.046	14.027	14.055	VV	254	3305	0.11%	0.005%
378	14.102	14.055	14.120	VV	2139	35703	1.14%	0.052%
379	14.152	14.120	14.199	VV	242121	2991850	95.91%	4.370%
380	14.213	14.199	14.230	VV	344	3780	0.12%	0.006%
381	14.247	14.230	14.260	VV	255	2951	0.09%	0.004%
382	14.290	14.260	14.319	VV	293	6631	0.21%	0.010%
383	14.330	14.319	14.335	VV	106	644	0.02%	0.001%
384	14.383	14.335	14.411	VV	493	11293	0.36%	0.016%
385	14.419	14.411	14.433	VV	114	1139	0.04%	0.002%
386	14.444	14.433	14.455	VV	108	919	0.03%	0.001%
387	14.462	14.455	14.472	VV	72	292	0.01%	0.000%
388	14.478	14.472	14.492	PV	142	895	0.03%	0.001%
389	14.543	14.492	14.598	PV	2333	52426	1.68%	0.077%
390	14.624	14.598	14.643	VV	562	11887	0.38%	0.017%
391	14.667	14.643	14.686	VV	533	8421	0.27%	0.012%
392	14.715	14.686	14.752	VV	5542	82947	2.66%	0.121%
393	14.772	14.752	14.799	VV	1972	33055	1.06%	0.048%
394	14.812	14.799	14.853	VV	931	17751	0.57%	0.026%
395	14.873	14.853	14.894	VV	497	7715	0.25%	0.011%
396	14.934	14.894	14.966	PV	2427	40016	1.28%	0.058%
397	14.971	14.966	14.986	VV	548	5517	0.18%	0.008%
398	14.991	14.986	15.013	VV	389	4751	0.15%	0.007%
399	15.053	15.013	15.089	VV	110786	1510343	48.42%	2.206%
400	15.101	15.089	15.140	VV	991	18768	0.60%	0.027%
401	15.145	15.140	15.158	VV	354	3377	0.11%	0.005%
402	15.182	15.158	15.199	VV	1273	16319	0.52%	0.024%
403	15.257	15.199	15.290	VV	236070	3005471	96.35%	4.390%
404	15.299	15.290	15.328	VV	775	10545	0.34%	0.015%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

405	15.342	15.328	15.360	VV	283	4225	0.14%	0.006%
406	15.377	15.360	15.387	VV	255	3301		
407	15.392	15.387	15.412	VV	286	2051		
408	15.418	15.412	15.423	PV	151	509		
409	15.448	15.423	15.463	VV	312	4752		
410	15.481	15.463	15.489	VV	387	4272		
411	15.494	15.489	15.500	VV	297	1726	0.06%	0.003%
412	15.504	15.500	15.508	VV	212	846	0.03%	0.001%
413	15.513	15.508	15.521	VV	188	1197	0.04%	0.002%
414	15.526	15.521	15.546	VV	174	1409	0.05%	0.002%
415	15.563	15.546	15.568	PV	229	1335	0.04%	0.002%
416	15.596	15.568	15.601	VV	311	4478	0.14%	0.007%
417	15.633	15.601	15.746	VV	56792	882579	28.29%	1.289%
418	15.777	15.746	15.808	VV	7232	113117	3.63%	0.165%
419	15.821	15.808	15.832	VV	1402	17074	0.55%	0.025%
420	15.852	15.832	15.879	VV	3620	51316	1.65%	0.075%
421	15.902	15.879	15.937	VV	626	11838	0.38%	0.017%
422	15.954	15.937	15.965	PV	185	1566	0.05%	0.002%
423	15.989	15.965	16.018	VV	2039	33790	1.08%	0.049%
424	16.023	16.018	16.055	VV	672	10965	0.35%	0.016%
425	16.097	16.055	16.119	VV	606	13964	0.45%	0.020%
426	16.153	16.119	16.202	VV	1944	41798	1.34%	0.061%
427	16.206	16.202	16.230	VV	419	4950	0.16%	0.007%
428	16.281	16.230	16.319	VV	216179	2921679	93.66%	4.268%
429	16.339	16.319	16.353	VV	470	7263	0.23%	0.011%
430	16.362	16.353	16.392	VV	283	4315	0.14%	0.006%
431	16.412	16.392	16.424	PV	96	996	0.03%	0.001%
432	16.468	16.424	16.473	PV	731	10187	0.33%	0.015%
433	16.476	16.473	16.505	VV	702	8465	0.27%	0.012%
434	16.521	16.505	16.547	VV	467	7627	0.24%	0.011%
435	16.578	16.547	16.622	VV	1531	38695	1.24%	0.057%
436	16.650	16.622	16.678	VV	5676	105133	3.37%	0.154%
437	16.694	16.678	16.718	VV	2671	41298	1.32%	0.060%
438	16.761	16.718	16.795	VV	7618	134363	4.31%	0.196%
439	16.799	16.795	16.815	VV	182	1428	0.05%	0.002%
440	16.841	16.815	16.865	PV	1380	20996	0.67%	0.031%
441	16.880	16.865	16.887	VV	622	6412	0.21%	0.009%
442	16.892	16.887	16.903	VV	544	4620	0.15%	0.007%
443	16.908	16.903	16.911	VV	459	2276	0.07%	0.003%
444	16.922	16.911	16.941	VV	536	7390	0.24%	0.011%
445	16.962	16.941	16.966	VV	471	4915	0.16%	0.007%
446	16.974	16.966	16.991	VV	572	6058	0.19%	0.009%
447	17.028	16.991	17.047	VV	1700	39568	1.27%	0.058%
448	17.062	17.047	17.090	VV	1918	33729	1.08%	0.049%
449	17.119	17.090	17.167	VV	1786	37627	1.21%	0.055%
450	17.230	17.167	17.264	VV	205770	2850472	91.38%	4.164%
451	17.279	17.264	17.339	VV	3745	65638	2.10%	0.096%
452	17.351	17.339	17.357	PV	229	1515	0.05%	0.002%
453	17.365	17.357	17.374	VV	158	1235	0.04%	0.002%
454	17.407	17.374	17.412	VV	161	1586	0.05%	0.002%
455	17.438	17.412	17.451	VV	582	8091	0.26%	0.012%
456	17.486	17.451	17.507	VV	753	15120	0.48%	0.022%

Instrument :

FID_G

ClientSampleId :

RES-BUILDING-PAD-NO-2MS

0.14% 0.006%

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 11/04/2024

457	17.526	17.507	17.533	VV	444	4978	0.16%	0.007%
458	17.565	17.533	17.569	VV	778	13018	0.03%	0.001%
459	17.596	17.569	17.637	VV	3039	72823	0.42%	0.005%
460	17.679	17.637	17.711	VV	8580	143328	0.60%	0.008%
461	17.722	17.711	17.735	VV	444	4333	0.03%	0.001%
462	17.759	17.735	17.771	VV	680	8152	0.09%	0.002%
463	17.798	17.771	17.826	VV	883	17133	0.55%	0.025%
464	17.857	17.826	17.872	PV	685	10272	0.33%	0.015%
465	17.885	17.872	17.895	VV	407	3564	0.11%	0.005%
466	17.905	17.895	17.910	VV	374	2394	0.08%	0.003%
467	17.913	17.910	17.921	VV	240	985	0.03%	0.001%
468	17.926	17.921	17.935	VV	117	598	0.02%	0.001%
469	17.959	17.935	17.978	PV	850	12517	0.40%	0.018%
470	18.011	17.978	18.026	VV	1097	21210	0.68%	0.031%
471	18.071	18.026	18.084	VV	3270	62541	2.00%	0.091%
472	18.120	18.084	18.155	VV	192571	2699238	86.53%	3.943%
473	18.170	18.155	18.175	VV	980	10437	0.33%	0.015%
474	18.207	18.175	18.228	VV	2177	38265	1.23%	0.056%
475	18.269	18.228	18.322	VV	3675	100078	3.21%	0.146%
476	18.347	18.322	18.373	VV	1667	33301	1.07%	0.049%
477	18.379	18.373	18.382	VV	629	3182	0.10%	0.005%
478	18.400	18.382	18.412	VV	767	11123	0.36%	0.016%
479	18.441	18.412	18.446	VV	2935	33290	1.07%	0.049%
480	18.473	18.446	18.519	VV	29657	578838	18.56%	0.846%
481	18.541	18.519	18.578	VV	9254	156682	5.02%	0.229%
482	18.585	18.578	18.592	VV	1000	7241	0.23%	0.011%
483	18.634	18.592	18.669	VV	4731	101119	3.24%	0.148%
484	18.676	18.669	18.693	VV	1427	16842	0.54%	0.025%
485	18.705	18.693	18.718	VV	984	12574	0.40%	0.018%
486	18.744	18.718	18.772	VV	1985	39458	1.26%	0.058%
487	18.796	18.772	18.802	VV	1050	15469	0.50%	0.023%
488	18.805	18.802	18.815	VV	933	7019	0.23%	0.010%
489	18.832	18.815	18.836	VV	846	9472	0.30%	0.014%
490	18.852	18.836	18.865	VV	1113	14598	0.47%	0.021%
491	18.900	18.865	18.906	VV	1860	30988	0.99%	0.045%
492	18.951	18.906	19.002	VV	157055	2285975	73.29%	3.339%
493	19.061	19.002	19.086	VV	5966	160505	5.15%	0.234%
494	19.109	19.086	19.139	VV	3926	89838	2.88%	0.131%
495	19.148	19.139	19.154	VV	2081	16281	0.52%	0.024%
496	19.189	19.154	19.194	VV	1964	43561	1.40%	0.064%
497	19.217	19.194	19.226	VV	2268	41297	1.32%	0.060%
498	19.234	19.226	19.238	VV	2099	14560	0.47%	0.021%
499	19.304	19.238	19.334	VV	24529	537224	17.22%	0.785%
500	19.352	19.334	19.380	VV	11056	238097	7.63%	0.348%
501	19.385	19.380	19.393	VV	4894	36473	1.17%	0.053%
502	19.398	19.393	19.404	VV	4476	29677	0.95%	0.043%
503	19.421	19.404	19.435	VV	5019	85983	2.76%	0.126%
504	19.462	19.435	19.471	VV	5027	100509	3.22%	0.147%
505	19.493	19.471	19.517	VV	6184	149694	4.80%	0.219%
506	19.521	19.517	19.530	VV	4925	36939	1.18%	0.054%
507	19.548	19.530	19.570	VV	7371	136238	4.37%	0.199%
508	19.587	19.570	19.617	VV	5128	136862	4.39%	0.200%
509	19.623	19.617	19.626	VV	4633	24422	0.78%	0.036%

Instrument :
FID_G
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RES-BUILDING-PAD-NO-2MS

Manual IntegrationsAPPROVED

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510	19.642	19.626	19.674	VV	5182	135935	4.36%	0.199%
511	19.736	19.674	19.788	VV	106072	1815757	58.33%	0.199%
512	19.802	19.788	19.814	VV	6751	102856	3.71%	0.199%
513	19.838	19.814	19.871	VV	7742	232128	7.77%	0.199%
514	19.901	19.871	19.935	VV	7888	256795	8.04%	0.199%
515	19.971	19.935	19.977	VV	6552	153079	4.28%	0.199%
516	19.983	19.977	19.992	VV	6493	54752	1.76%	0.080%
517	20.016	19.992	20.040	VV	7388	197571	6.33%	0.289%
518	20.043	20.040	20.049	VV	6706	35407	1.14%	0.052%
519	20.104	20.049	20.145	VV	13770	593742	19.03%	0.867%
520	20.150	20.145	20.178	VV	8600	164913	5.29%	0.241%
521	20.187	20.178	20.195	VV	8270	82010	2.63%	0.120%
522	20.198	20.195	20.204	VV	8031	42089	1.35%	0.061%
523	20.211	20.204	20.217	VV	8137	64360	2.06%	0.094%
524	20.277	20.217	20.294	VV	10003	410377	13.16%	0.599%
525	20.326	20.294	20.337	VV	12152	290219	9.30%	0.424%
526	20.359	20.337	20.380	VV	13720	317925	10.19%	0.464%
527	20.385	20.380	20.389	VV	11887	62334	2.00%	0.091%
528	20.391	20.389	20.412	VV	11802	156397	5.01%	0.228%
529	20.476	20.412	20.510	VV	79059	1696282	54.38%	2.478%
530	20.548	20.510	20.566	VV	13871	442128	14.17%	0.646%
531	20.579	20.566	20.599	VV	13568	258801	8.30%	0.378%
532	20.636	20.599	20.671	VV	24978	751489	24.09%	1.098%
533	20.709	20.671	20.719	VV	16152	437705	14.03%	0.639%
534	20.744	20.719	20.751	VV	16427	313840	10.06%	0.458%
535	20.759	20.751	20.806	VV	16319	511479	16.40%	0.747%
536	20.833	20.806	20.858	VV	16945	472173	15.14%	0.690%
537	20.866	20.858	20.874	VV	13860	137173	4.40%	0.200%
538	20.882	20.874	20.911	VV	14118	301153	9.65%	0.440%
539	20.953	20.911	20.997	VV	14679	707510	22.68%	1.033%
540	21.000	20.997	21.044	VV	12884	349552	11.21%	0.511%
541	21.092	21.044	21.096	VV	12519	378469	12.13%	0.553%
542	21.100	21.096	21.103	VV	12510	48959	1.57%	0.072%
543	21.122	21.103	21.127	VV	12468	181398	5.82%	0.265%
544	21.134	21.127	21.158	VV	12409	220031	7.05%	0.321%
545	21.171	21.158	21.186	VV	11740	195170	6.26%	0.285%
546	21.227	21.186	21.270	VV	58273	1384880	44.40%	2.023%
547	21.279	21.270	21.298	VV	10471	177747	5.70%	0.260%
548	21.311	21.298	21.318	VV	10295	121391	3.89%	0.177%
549	21.328	21.318	21.344	VV	10074	152270	4.88%	0.222%
550	21.362	21.344	21.388	VV	9935	257972	8.27%	0.377%
551	21.392	21.388	21.434	VV	9560	237297	7.61%	0.347%
552	21.439	21.434	21.445	VV	7880	53198	1.71%	0.078%
553	21.452	21.445	21.468	VV	7600	100333	3.22%	0.147%
554	21.472	21.468	21.480	VV	7302	51336	1.65%	0.075%
555	21.485	21.480	21.496	VV	7179	68440	2.19%	0.100%
556	21.503	21.496	21.509	VV	7426	56918	1.82%	0.083%
557	21.539	21.509	21.542	VV	8102	157185	5.04%	0.230%
558	21.547	21.542	21.566	VV	8049	112872	3.62%	0.165%
559	21.587	21.566	21.591	VV	7775	114365	3.67%	0.167%
560	21.596	21.591	21.618	VV	7728	117440	3.76%	0.172%
561	21.664	21.618	21.721	VV	8373	429791	13.78%	0.628%

Instrument :
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ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual IntegrationsAPPROVED

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Chromatogram Data							
Peak #	Retention Time (min)	Area	Height	Width	Integration	Integration	Integration
562	21.726	21.721	21.733	VV	5479	38391	1.23% 0.056%
563	21.741	21.733	21.751	VV	5240	54102	
564	21.767	21.751	21.771	VV	4903	58239	
565	21.787	21.771	21.791	VV	5260	60860	
566	21.811	21.791	21.824	VV	5450	103029	
567	21.842	21.824	21.863	VV	5568	121654	
568	21.900	21.863	21.940	VV	5615	234216	7.51% 0.342%
569	21.950	21.940	21.997	VV	4233	120482	3.86% 0.176%
570	22.002	21.997	22.028	VV	2726	46327	1.49% 0.068%
571	22.066	22.028	22.085	VV	2638	81872	2.62% 0.120%
572	22.170	22.085	22.255	VV	35297	1031422	33.07% 1.507%
573	22.260	22.255	22.298	VV	1364	18575	0.60% 0.027%
Sum of corrected areas:					68458318		

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

FG102124.M Mon Nov 04 03:06:01 2024

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MSD	SDG No.:	P4663
Lab Sample ID:	P4663-08MSD	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	91.3
Sample Wt/Vol:	30.1	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TPH GC
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014630.D	1	11/01/24 11:35	11/01/24 19:56	PB164602

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	19200		347	3090	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	11.9		37 - 130	59%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
 Data File : FG014630.D
 Signal(s) : FID1A.ch
 Acq On : 01 Nov 2024 19:56
 Operator : YP\AJ
 Sample : P4663-08MSD
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 RES-BUILDING-PAD-NO-2MSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/04/2024
 Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
 Quant Time: Nov 04 01:31:38 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
 Quant Title :
 QLast Update : Mon Oct 21 17:03:32 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.051	1421604	11.886 ug/ml
Target Compounds			
1) N-OCTANE	2.065	2240850	18.581 ug/ml
2) N-DECANE	4.579	2666684	21.537 ug/ml
3) N-DODECANE	6.750	2840220	22.536 ug/ml
4) N-TETRADECANE	8.582	2820531	21.951 ug/ml
5) N-HEXADECANE	10.193	2884589	22.153 ug/ml
6) N-OCTADECANE	11.639	2978510	22.197 ug/ml
7) N-EICOSANE	12.952	2895860	21.240 ug/ml
8) N-DOCOSANE	14.152	2857076	21.521 ug/ml
10) N-TETRACOSANE	15.258	2856742	21.432 ug/ml
11) N-HEXACOSANE	16.280	2794155	20.992 ug/ml
12) N-OCTACOSANE	17.232	2728841	20.577 ug/ml
13) N-TRIACONTANE	18.120	2592111	19.363 ug/ml
14) N-DOTRIACONTANE	18.952	2179020	16.475 ug/ml
15) N-TETRATRIACONTANE	19.737	1412884	11.185 ug/ml
16) N-HEXATRIACONTANE	20.477	1003652	8.672 ug/mlm
17) N-OCTATRIACONTANE	21.226	872229	8.243 ug/ml
18) N-TETRACONTANE	22.169	877433	9.237 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124\
Data File : FG014630.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 19:56
Operator : YP\AJ
Sample : P4663-08MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

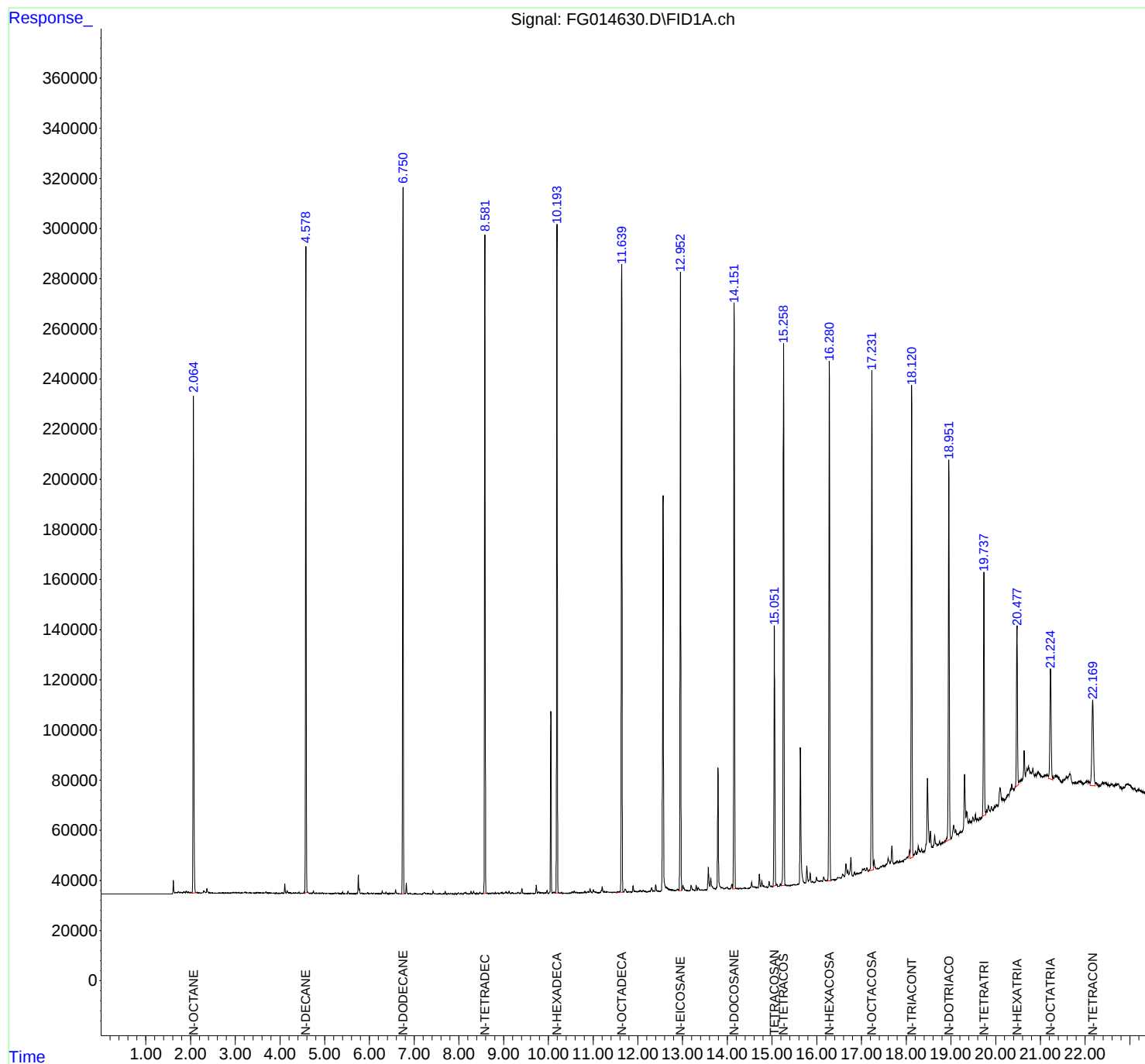
Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File: autoint1.e
Quant Time: Nov 04 01:31:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Quant Title :
QLast Update : Mon Oct 21 17:03:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2MSD
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

rteres

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG110124
Data File : FG014630.D
Signal(s) : FID1A.ch
Acq On : 01 Nov 2024 19:56
Sample : P4663-08MSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG102124.M
Title :

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.935	1.912	1.948	BV	-15	-1450	-0.05%	-0.002%
2	1.957	1.948	1.984	PV	128	1510	0.05%	0.002%
3	2.006	1.984	2.029	PV	335	3962	0.13%	0.006%
4	2.065	2.029	2.135	PV	197914	2244718	75.37%	3.313%
5	2.138	2.135	2.148	VV	217	1383	0.05%	0.002%
6	2.151	2.148	2.157	VV	215	961	0.03%	0.001%
7	2.162	2.157	2.171	VV	166	1158	0.04%	0.002%
8	2.176	2.171	2.193	VV	176	1499	0.05%	0.002%
9	2.197	2.193	2.213	VV	122	1077	0.04%	0.002%
10	2.223	2.213	2.232	VV	126	960	0.03%	0.001%
11	2.237	2.232	2.245	VV	80	509	0.02%	0.001%
12	2.248	2.245	2.258	VV	91	607	0.02%	0.001%
13	2.301	2.258	2.346	VV	886	21198	0.71%	0.031%
14	2.365	2.346	2.421	VV	1744	29006	0.97%	0.043%
15	2.428	2.421	2.445	VV	166	1674	0.06%	0.002%
16	2.466	2.445	2.471	VV	142	1635	0.05%	0.002%
17	2.475	2.471	2.482	VV	121	578	0.02%	0.001%
18	2.486	2.482	2.498	VV	120	712	0.02%	0.001%
19	2.501	2.498	2.511	VV	93	306	0.01%	0.000%
20	2.515	2.511	2.535	PV	53	560	0.02%	0.001%
21	2.547	2.535	2.574	VV	118	1696	0.06%	0.003%
22	2.579	2.574	2.584	VV	37	180	0.01%	0.000%
23	2.594	2.584	2.613	VV	48	554	0.02%	0.001%
24	2.616	2.613	2.621	VV	67	202	0.01%	0.000%
25	2.626	2.621	2.646	VV	90	834	0.03%	0.001%
26	2.660	2.646	2.671	VV	96	859	0.03%	0.001%
27	2.675	2.671	2.691	VV	83	719	0.02%	0.001%
28	2.714	2.691	2.736	VV	252	3558	0.12%	0.005%
29	2.762	2.736	2.770	VV	152	2317	0.08%	0.003%
30	2.774	2.770	2.780	VV	147	586	0.02%	0.001%
31	2.786	2.780	2.797	VV	133	888	0.03%	0.001%
32	2.799	2.797	2.807	VV	101	493	0.02%	0.001%
33	2.815	2.807	2.822	VV	130	971	0.03%	0.001%
34	2.826	2.822	2.836	VV	158	981	0.03%	0.001%
35	2.841	2.836	2.845	VV	108	436	0.01%	0.001%
36	2.858	2.845	2.865	VV	190	1501	0.05%	0.002%

					rters			
37	2.880	2.865	2.904	VV	183	3363	0.11%	0.005%
38	2.914	2.904	2.920	VV	196	1403		
39	2.951	2.920	2.976	VV	330	8901		
40	2.983	2.976	2.990	VV	267	2041		
41	2.993	2.990	3.003	VV	283	1579		
42	3.023	3.003	3.052	VV	333	7007		
43	3.070	3.052	3.098	VV	317	6232	0.21%	0.009%
44	3.102	3.098	3.107	VV	213	984	0.03%	0.001%
45	3.112	3.107	3.122	VV	203	1499	0.05%	0.002%
46	3.148	3.122	3.166	VV	255	5155	0.17%	0.008%
47	3.179	3.166	3.184	VV	207	2013	0.07%	0.003%
48	3.209	3.184	3.249	VV	509	13035	0.44%	0.019%
49	3.252	3.249	3.261	VV	359	1963	0.07%	0.003%
50	3.265	3.261	3.279	VV	284	2688	0.09%	0.004%
51	3.290	3.279	3.298	VV	233	2291	0.08%	0.003%
52	3.326	3.298	3.353	VV	333	7584	0.25%	0.011%
53	3.358	3.353	3.379	VV	251	3135	0.11%	0.005%
54	3.383	3.379	3.387	VV	223	998	0.03%	0.001%
55	3.393	3.387	3.402	VV	221	1701	0.06%	0.003%
56	3.406	3.402	3.418	VV	219	1850	0.06%	0.003%
57	3.423	3.418	3.431	VV	224	1480	0.05%	0.002%
58	3.436	3.431	3.443	VV	197	1308	0.04%	0.002%
59	3.454	3.443	3.461	VV	221	2132	0.07%	0.003%
60	3.485	3.461	3.493	VV	355	5233	0.18%	0.008%
61	3.501	3.493	3.508	VV	374	2983	0.10%	0.004%
62	3.515	3.508	3.525	VV	331	3153	0.11%	0.005%
63	3.529	3.525	3.536	VV	301	1704	0.06%	0.003%
64	3.544	3.536	3.552	VV	308	2686	0.09%	0.004%
65	3.563	3.552	3.587	VV	304	5598	0.19%	0.008%
66	3.591	3.587	3.608	VV	242	2720	0.09%	0.004%
67	3.614	3.608	3.618	VV	213	1189	0.04%	0.002%
68	3.621	3.618	3.628	VV	230	1201	0.04%	0.002%
69	3.633	3.628	3.639	VV	283	1554	0.05%	0.002%
70	3.643	3.639	3.654	VV	267	2214	0.07%	0.003%
71	3.659	3.654	3.667	VV	236	1573	0.05%	0.002%
72	3.687	3.667	3.723	VV	701	12198	0.41%	0.018%
73	3.728	3.723	3.732	VV	224	1111	0.04%	0.002%
74	3.737	3.732	3.740	VV	219	956	0.03%	0.001%
75	3.746	3.740	3.764	VV	243	3004	0.10%	0.004%
76	3.780	3.764	3.791	VV	329	3971	0.13%	0.006%
77	3.794	3.791	3.804	VV	256	1714	0.06%	0.003%
78	3.809	3.804	3.830	VV	259	3262	0.11%	0.005%
79	3.836	3.830	3.847	VV	194	1664	0.06%	0.002%
80	3.851	3.847	3.857	VV	173	777	0.03%	0.001%
81	3.867	3.857	3.873	VV	212	1563	0.05%	0.002%
82	3.877	3.873	3.895	VV	173	1753	0.06%	0.003%
83	3.909	3.895	3.919	VV	220	2310	0.08%	0.003%
84	3.924	3.919	3.940	VV	159	1619	0.05%	0.002%
85	3.951	3.940	3.982	VV	199	3548	0.12%	0.005%
86	3.998	3.982	4.003	VV	167	1651	0.06%	0.002%
87	4.009	4.003	4.016	VV	186	1096	0.04%	0.002%
88	4.042	4.016	4.070	VV	278	5940	0.20%	0.009%
89	4.073	4.070	4.086	VV	198	1512	0.05%	0.002%

Instrument :

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90	4.108	4.086	4.141	VV	3909	40572	1.36%	0.060%
91	4.160	4.141	4.205	VV	1200	21095		
92	4.218	4.205	4.247	VV	326	6629		
93	4.251	4.247	4.259	VV	210	1485		
94	4.261	4.259	4.272	VV	219	1387		
95	4.304	4.272	4.331	VV	269	7791		
96	4.350	4.331	4.377	VV	427	7311	0.25%	0.011%
97	4.379	4.377	4.385	VV	243	1047	0.04%	0.002%
98	4.394	4.385	4.400	VV	257	1982	0.07%	0.003%
99	4.405	4.400	4.409	VV	260	1350	0.05%	0.002%
100	4.425	4.409	4.448	VV	539	7634	0.26%	0.011%
101	4.453	4.448	4.457	VV	207	1002	0.03%	0.001%
102	4.462	4.457	4.469	VV	220	1325	0.04%	0.002%
103	4.475	4.469	4.488	VV	217	2187	0.07%	0.003%
104	4.495	4.488	4.503	VV	203	1599	0.05%	0.002%
105	4.509	4.503	4.515	VV	244	1303	0.04%	0.002%
106	4.533	4.515	4.545	VV	518	4385	0.15%	0.006%
107	4.579	4.545	4.612	VV	257563	2681205	90.02%	3.957%
108	4.622	4.612	4.655	VV	609	9246	0.31%	0.014%
109	4.661	4.655	4.668	VV	233	1428	0.05%	0.002%
110	4.675	4.668	4.679	VV	226	1329	0.04%	0.002%
111	4.683	4.679	4.698	VV	223	2204	0.07%	0.003%
112	4.705	4.698	4.719	VV	255	2424	0.08%	0.004%
113	4.724	4.719	4.730	VV	187	1028	0.03%	0.002%
114	4.748	4.730	4.784	VV	1099	14141	0.47%	0.021%
115	4.796	4.784	4.801	VV	226	1928	0.06%	0.003%
116	4.808	4.801	4.818	VV	239	2256	0.08%	0.003%
117	4.827	4.818	4.835	VV	240	1999	0.07%	0.003%
118	4.838	4.835	4.846	VV	186	988	0.03%	0.001%
119	4.850	4.846	4.854	VV	146	670	0.02%	0.001%
120	4.889	4.854	4.912	VV	252	6745	0.23%	0.010%
121	4.923	4.912	4.928	VV	245	1651	0.06%	0.002%
122	4.951	4.928	4.972	VV	346	5865	0.20%	0.009%
123	4.976	4.972	4.986	VV	221	1464	0.05%	0.002%
124	4.998	4.986	5.006	VV	207	2215	0.07%	0.003%
125	5.015	5.006	5.031	VV	206	2583	0.09%	0.004%
126	5.035	5.031	5.041	VV	196	813	0.03%	0.001%
127	5.058	5.041	5.064	VV	215	2488	0.08%	0.004%
128	5.072	5.064	5.081	VV	200	1715	0.06%	0.003%
129	5.091	5.081	5.103	VV	204	2120	0.07%	0.003%
130	5.107	5.103	5.115	VV	183	1173	0.04%	0.002%
131	5.125	5.115	5.153	VV	153	2399	0.08%	0.004%
132	5.169	5.153	5.175	VV	198	1905	0.06%	0.003%
133	5.187	5.175	5.198	VV	185	1812	0.06%	0.003%
134	5.203	5.198	5.208	VV	124	670	0.02%	0.001%
135	5.240	5.208	5.265	VV	443	8076	0.27%	0.012%
136	5.275	5.265	5.319	VV	336	7303	0.25%	0.011%
137	5.329	5.319	5.333	VV	175	1236	0.04%	0.002%
138	5.337	5.333	5.358	VV	169	1910	0.06%	0.003%
139	5.361	5.358	5.366	VV	126	456	0.02%	0.001%
140	5.370	5.366	5.376	VV	156	619	0.02%	0.001%
141	5.398	5.376	5.422	VV	765	8876	0.30%	0.013%

Instrument :

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RES-BUILDING-PAD-NO-2MSD

1.36% 0.060%

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142	5.432	5.422	5.439	VV	149	1042	0.03%	0.002%
143	5.458	5.439	5.465	VV	137	1421	0.03%	0.002%
144	5.472	5.465	5.480	VV	107	744	0.03%	0.002%
145	5.487	5.480	5.498	VV	131	1009	0.03%	0.002%
146	5.521	5.498	5.543	VV	1145	12792	0.08%	0.004%
147	5.560	5.543	5.586	VV	207	3149	0.01%	0.000%
148	5.593	5.586	5.627	VV	201	2429	0.01%	0.000%
149	5.635	5.627	5.643	PV	18	159	0.07%	0.003%
150	5.655	5.643	5.684	VV	122	2022	0.02%	0.001%
151	5.688	5.684	5.693	VV	116	450	0.18%	0.008%
152	5.717	5.693	5.732	VV	439	5257	2.45%	0.108%
153	5.752	5.732	5.768	VV	7590	72903	0.68%	0.030%
154	5.775	5.768	5.809	VV	2047	20221	0.17%	0.008%
155	5.825	5.809	5.840	VV	462	5198	0.03%	0.001%
156	5.844	5.840	5.850	VV	225	996	0.06%	0.003%
157	5.857	5.850	5.873	VV	198	1853	0.02%	0.001%
158	5.878	5.873	5.883	VV	120	630	0.03%	0.001%
159	5.887	5.883	5.896	VV	131	932	0.10%	0.004%
160	5.904	5.896	5.930	VV	190	2907	0.36%	0.016%
161	5.962	5.930	5.995	VV	638	10753	0.05%	0.002%
162	6.003	5.995	6.013	VV	164	1499	0.24%	0.011%
163	6.042	6.013	6.067	VV	439	7246	0.26%	0.012%
164	6.093	6.067	6.123	VV	442	7890	0.03%	0.001%
165	6.130	6.123	6.134	VV	171	822	0.02%	0.001%
166	6.139	6.134	6.145	VV	131	720	0.12%	0.005%
167	6.157	6.145	6.183	VV	228	3695	0.08%	0.003%
168	6.198	6.183	6.207	VV	244	2313	0.03%	0.001%
169	6.212	6.207	6.220	VV	143	959	0.07%	0.003%
170	6.229	6.220	6.244	VV	177	1945	0.06%	0.003%
171	6.253	6.244	6.265	VV	214	1907	0.60%	0.027%
172	6.287	6.265	6.327	VV	1251	17965	0.09%	0.004%
173	6.331	6.327	6.347	VV	260	2794	0.03%	0.001%
174	6.349	6.347	6.354	VV	254	916	0.49%	0.022%
175	6.370	6.354	6.427	VV	879	14632	0.09%	0.004%
176	6.441	6.427	6.448	VV	275	2710	0.21%	0.009%
177	6.463	6.448	6.482	VV	432	6273	0.21%	0.009%
178	6.491	6.482	6.522	VV	341	6127	0.06%	0.002%
179	6.524	6.522	6.535	VV	226	1644	0.07%	0.003%
180	6.544	6.535	6.549	VV	299	2156	0.08%	0.003%
181	6.553	6.549	6.565	VV	317	2341	0.64%	0.028%
182	6.586	6.565	6.604	VV	1543	19052	0.13%	0.006%
183	6.608	6.604	6.625	VV	423	3784	0.16%	0.007%
184	6.638	6.625	6.663	VV	280	4841	0.14%	0.006%
185	6.670	6.663	6.709	VV	233	4184	95.68%	4.206%
186	6.750	6.709	6.805	VV	281430	2849710	1.62%	0.071%
187	6.825	6.805	6.866	VV	4498	48339	0.10%	0.004%
188	6.880	6.866	6.889	VV	269	2873	0.25%	0.011%
189	6.902	6.889	6.944	VV	395	7460	0.05%	0.002%
190	6.950	6.944	6.968	VV	148	1589	0.06%	0.003%
191	6.979	6.968	6.998	VV	154	1880	0.21%	0.009%
192	7.030	6.998	7.060	VV	349	6220	0.10%	0.005%
193	7.088	7.060	7.105	VV	159	3064	0.03%	0.001%
194	7.113	7.105	7.119	VV	149	898		

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195	7.130	7.119	7.149	VV	199	2537	0.09%	0.004%
196	7.156	7.149	7.172	VV	164	1362		
197	7.227	7.172	7.263	PV	774	18494		
198	7.283	7.263	7.311	VV	326	6649		
199	7.325	7.311	7.350	VV	376	5462		
200	7.378	7.350	7.402	VV	254	5289		
201	7.425	7.402	7.452	VV	1082	14128	0.47%	0.021%
202	7.472	7.452	7.502	VV	375	6104	0.20%	0.009%
203	7.506	7.502	7.512	VV	61	253	0.01%	0.000%
204	7.531	7.512	7.544	VV	164	2078	0.07%	0.003%
205	7.565	7.544	7.591	VV	368	5591	0.19%	0.008%
206	7.595	7.591	7.616	VV	160	1321	0.04%	0.002%
207	7.621	7.616	7.625	VV	79	306	0.01%	0.000%
208	7.654	7.625	7.675	VV	176	3582	0.12%	0.005%
209	7.696	7.675	7.733	VV	1107	13539	0.45%	0.020%
210	7.740	7.733	7.744	VV	66	304	0.01%	0.000%
211	7.763	7.744	7.798	VV	377	5427	0.18%	0.008%
212	7.814	7.798	7.853	VV	453	7014	0.24%	0.010%
213	7.869	7.853	7.894	VV	180	2238	0.08%	0.003%
214	7.918	7.894	7.943	PV	474	5054	0.17%	0.007%
215	7.947	7.943	7.950	VV	54	176	0.01%	0.000%
216	7.987	7.950	8.008	VV	613	7980	0.27%	0.012%
217	8.014	8.008	8.024	VV	111	796	0.03%	0.001%
218	8.043	8.024	8.064	VV	352	4285	0.14%	0.006%
219	8.072	8.064	8.088	VV	160	1473	0.05%	0.002%
220	8.092	8.088	8.096	VV	80	282	0.01%	0.000%
221	8.123	8.096	8.142	VV	545	10067	0.34%	0.015%
222	8.156	8.142	8.176	VV	791	9134	0.31%	0.013%
223	8.183	8.176	8.213	VV	324	3997	0.13%	0.006%
224	8.230	8.213	8.247	VV	316	2796	0.09%	0.004%
225	8.272	8.247	8.294	PV	1050	11785	0.40%	0.017%
226	8.304	8.294	8.308	VV	266	1766	0.06%	0.003%
227	8.330	8.308	8.371	VV	1125	16297	0.55%	0.024%
228	8.375	8.371	8.380	VV	124	541	0.02%	0.001%
229	8.401	8.380	8.425	VV	528	6859	0.23%	0.010%
230	8.431	8.425	8.435	VV	130	711	0.02%	0.001%
231	8.472	8.435	8.499	VV	744	13709	0.46%	0.020%
232	8.504	8.499	8.516	VV	224	1897	0.06%	0.003%
233	8.525	8.516	8.531	VV	215	1837	0.06%	0.003%
234	8.582	8.531	8.615	VV	262835	2831133	95.06%	4.178%
235	8.634	8.615	8.652	VV	401	5905	0.20%	0.009%
236	8.662	8.652	8.667	VV	206	1458	0.05%	0.002%
237	8.684	8.667	8.701	VV	311	4726	0.16%	0.007%
238	8.708	8.701	8.712	VV	231	1381	0.05%	0.002%
239	8.721	8.712	8.727	VV	266	2183	0.07%	0.003%
240	8.744	8.727	8.756	VV	399	5352	0.18%	0.008%
241	8.767	8.756	8.783	VV	302	3986	0.13%	0.006%
242	8.810	8.783	8.836	VV	474	8213	0.28%	0.012%
243	8.847	8.836	8.860	VV	315	3548	0.12%	0.005%
244	8.875	8.860	8.903	VV	528	8066	0.27%	0.012%
245	8.911	8.903	8.915	VV	241	1532	0.05%	0.002%
246	8.945	8.915	8.973	VV	569	11704	0.39%	0.017%

Instrument :

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0.09% 0.004%

Manual IntegrationsAPPROVED

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					rteres				
247	8.978	8.973	8.990	VV	478	3191	0.11%	0.005%	
248	8.996	8.990	9.000	VV	348	1751			
249	9.014	9.000	9.025	VV	324	4399			
250	9.052	9.025	9.071	VV	911	14767			
251	9.080	9.071	9.097	VV	389	4951			
252	9.121	9.097	9.155	VV	1069	18372			
253	9.178	9.155	9.192	VV	404	6247	0.21%	0.009%	
254	9.205	9.192	9.226	VV	374	5269	0.18%	0.008%	
255	9.235	9.226	9.244	VV	233	2136	0.07%	0.003%	
256	9.270	9.244	9.292	VV	269	6101	0.20%	0.009%	
257	9.323	9.292	9.367	VV	690	16871	0.57%	0.025%	
258	9.375	9.367	9.381	VV	252	1747	0.06%	0.003%	
259	9.409	9.381	9.435	VV	2106	27836	0.93%	0.041%	
260	9.438	9.435	9.471	VV	272	4404	0.15%	0.006%	
261	9.499	9.471	9.514	VV	297	4408	0.15%	0.007%	
262	9.520	9.514	9.524	VV	86	331	0.01%	0.000%	
263	9.547	9.524	9.571	VV	169	3035	0.10%	0.004%	
264	9.575	9.571	9.583	VV	86	512	0.02%	0.001%	
265	9.606	9.583	9.622	PV	261	4304	0.14%	0.006%	
266	9.625	9.622	9.642	VV	210	2158	0.07%	0.003%	
267	9.649	9.642	9.666	VV	159	1562	0.05%	0.002%	
268	9.675	9.666	9.686	VV	119	1208	0.04%	0.002%	
269	9.691	9.686	9.702	VV	180	1458	0.05%	0.002%	
270	9.731	9.702	9.759	VV	3459	41917	1.41%	0.062%	
271	9.788	9.759	9.820	VV	839	18569	0.62%	0.027%	
272	9.830	9.820	9.846	VV	407	4930	0.17%	0.007%	
273	9.865	9.846	9.905	VV	436	9738	0.33%	0.014%	
274	9.922	9.905	9.938	VV	360	5250	0.18%	0.008%	
275	9.971	9.938	9.997	VV	1304	18331	0.62%	0.027%	
276	10.056	9.997	10.090	VV	72641	746727	25.07%	1.102%	
277	10.126	10.090	10.155	VV	686	15573	0.52%	0.023%	
278	10.193	10.155	10.238	VV	266777	2894614	97.19%	4.272%	
279	10.258	10.238	10.282	VV	283	5987	0.20%	0.009%	
280	10.293	10.282	10.319	VV	500	5783	0.19%	0.009%	
281	10.325	10.319	10.337	VV	113	886	0.03%	0.001%	
282	10.364	10.337	10.384	PV	161	2683	0.09%	0.004%	
283	10.389	10.384	10.394	VV	119	486	0.02%	0.001%	
284	10.408	10.394	10.417	VV	94	783	0.03%	0.001%	
285	10.429	10.417	10.436	PV	113	525	0.02%	0.001%	
286	10.447	10.436	10.466	VV	92	1197	0.04%	0.002%	
287	10.493	10.466	10.502	VV	209	2799	0.09%	0.004%	
288	10.533	10.502	10.558	VV	729	11204	0.38%	0.017%	
289	10.582	10.558	10.602	VV	946	13908	0.47%	0.021%	
290	10.629	10.602	10.651	VV	462	8442	0.28%	0.012%	
291	10.672	10.651	10.698	VV	273	4851	0.16%	0.007%	
292	10.733	10.698	10.747	VV	353	6871	0.23%	0.010%	
293	10.750	10.747	10.767	VV	258	2042	0.07%	0.003%	
294	10.815	10.767	10.854	VV	746	16812	0.56%	0.025%	
295	10.860	10.854	10.864	VV	275	1481	0.05%	0.002%	
296	10.886	10.864	10.901	VV	673	9451	0.32%	0.014%	
297	10.932	10.901	10.978	VV	1717	28714	0.96%	0.042%	
298	11.006	10.978	11.043	VV	1305	24293	0.82%	0.036%	
299	11.048	11.043	11.054	VV	362	2107	0.07%	0.003%	

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					rters			
300	11.063	11.054	11.116	VV	438	6975	0.23%	0.010%
301	11.132	11.116	11.137	PV	91	698		
302	11.149	11.137	11.157	VV	157	1311		
303	11.184	11.157	11.188	VV	965	9405		
304	11.204	11.188	11.236	VV	2587	34342		
305	11.256	11.236	11.285	VV	624	10102		
306	11.308	11.285	11.317	VV	408	5606	0.19%	0.008%
307	11.327	11.317	11.348	VV	363	5155	0.17%	0.008%
308	11.359	11.348	11.376	VV	277	3310	0.11%	0.005%
309	11.385	11.376	11.429	VV	239	4090	0.14%	0.006%
310	11.449	11.429	11.458	VV	250	3112	0.10%	0.005%
311	11.466	11.458	11.481	VV	213	2004	0.07%	0.003%
312	11.497	11.481	11.518	VV	235	3060	0.10%	0.005%
313	11.524	11.518	11.528	VV	72	257	0.01%	0.000%
314	11.543	11.528	11.555	VV	141	1673	0.06%	0.002%
315	11.570	11.555	11.578	VV	274	2733	0.09%	0.004%
316	11.584	11.578	11.588	VV	329	1686	0.06%	0.002%
317	11.639	11.588	11.678	VV	250659	2978400	100.00%	4.396%
318	11.684	11.678	11.690	VV	149	954	0.03%	0.001%
319	11.720	11.690	11.768	VV	1333	30586	1.03%	0.045%
320	11.775	11.768	11.779	VV	183	785	0.03%	0.001%
321	11.794	11.779	11.815	VV	349	4971	0.17%	0.007%
322	11.831	11.815	11.852	VV	395	4613	0.15%	0.007%
323	11.893	11.852	11.938	PV	2610	40347	1.35%	0.060%
324	11.951	11.938	11.971	VV	406	5794	0.19%	0.009%
325	11.989	11.971	12.007	VV	331	4592	0.15%	0.007%
326	12.030	12.007	12.036	VV	384	4908	0.16%	0.007%
327	12.055	12.036	12.080	VV	808	12958	0.44%	0.019%
328	12.085	12.080	12.093	VV	282	1871	0.06%	0.003%
329	12.122	12.093	12.151	VV	755	15240	0.51%	0.022%
330	12.162	12.151	12.183	VV	318	4046	0.14%	0.006%
331	12.188	12.183	12.199	VV	139	948	0.03%	0.001%
332	12.203	12.199	12.216	VV	112	795	0.03%	0.001%
333	12.221	12.216	12.226	VV	86	343	0.01%	0.001%
334	12.238	12.226	12.245	VV	172	1414	0.05%	0.002%
335	12.254	12.245	12.267	VV	186	2135	0.07%	0.003%
336	12.308	12.267	12.347	VV	1700	33915	1.14%	0.050%
337	12.359	12.347	12.376	VV	385	5590	0.19%	0.008%
338	12.399	12.376	12.439	VV	2654	40252	1.35%	0.059%
339	12.462	12.439	12.481	VV	346	5493	0.18%	0.008%
340	12.486	12.481	12.490	PV	76	214	0.01%	0.000%
341	12.564	12.490	12.629	VV	157744	2069779	69.49%	3.055%
342	12.638	12.629	12.659	VV	1746	27448	0.92%	0.041%
343	12.664	12.659	12.707	VV	1344	27457	0.92%	0.041%
344	12.721	12.707	12.751	VV	838	18022	0.61%	0.027%
345	12.762	12.751	12.766	VV	628	4592	0.15%	0.007%
346	12.774	12.766	12.792	VV	631	8158	0.27%	0.012%
347	12.799	12.792	12.821	VV	414	5985	0.20%	0.009%
348	12.830	12.821	12.850	VV	426	5693	0.19%	0.008%
349	12.886	12.850	12.908	VV	812	18142	0.61%	0.027%
350	12.952	12.908	12.984	VV	246490	2907459	97.62%	4.291%
351	13.007	12.984	13.052	VV	2389	48185	1.62%	0.071%

Instrument :

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0.23% 0.010%

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352	13.056	13.052	13.059	VV	349	1439	0.05%	0.002%
353	13.067	13.059	13.092	VV	396	5406		
354	13.101	13.092	13.107	VV	218	1647		
355	13.111	13.107	13.126	VV	178	1618		
356	13.138	13.126	13.156	VV	141	1606		
357	13.190	13.156	13.235	PV	2087	41979		
358	13.237	13.235	13.262	VV	416	4363	0.15%	0.006%
359	13.267	13.262	13.282	VV	221	1967	0.07%	0.003%
360	13.305	13.282	13.326	VV	2063	23617	0.79%	0.035%
361	13.347	13.326	13.389	VV	1265	23592	0.79%	0.035%
362	13.395	13.389	13.415	VV	314	3552	0.12%	0.005%
363	13.420	13.415	13.433	VV	207	1813	0.06%	0.003%
364	13.446	13.433	13.461	VV	205	2929	0.10%	0.004%
365	13.482	13.461	13.486	VV	217	2489	0.08%	0.004%
366	13.509	13.486	13.526	VV	386	5518	0.19%	0.008%
367	13.576	13.526	13.607	PV	9075	146916	4.93%	0.217%
368	13.630	13.607	13.697	VV	4743	109641	3.68%	0.162%
369	13.712	13.697	13.726	VV	698	10412	0.35%	0.015%
370	13.730	13.726	13.742	VV	501	4341	0.15%	0.006%
371	13.791	13.742	13.872	VV	48696	656084	22.03%	0.968%
372	13.891	13.872	13.922	VV	942	20730	0.70%	0.031%
373	13.941	13.922	13.951	VV	480	6816	0.23%	0.010%
374	13.970	13.951	13.978	VV	682	9843	0.33%	0.015%
375	13.995	13.978	14.028	VV	1059	18356	0.62%	0.027%
376	14.045	14.028	14.053	VV	307	3902	0.13%	0.006%
377	14.102	14.053	14.119	VV	2132	36728	1.23%	0.054%
378	14.152	14.119	14.194	VV	233833	2864678	96.18%	4.228%
379	14.211	14.194	14.226	VV	410	5121	0.17%	0.008%
380	14.247	14.226	14.261	VV	230	3402	0.11%	0.005%
381	14.285	14.261	14.320	VV	338	8161	0.27%	0.012%
382	14.324	14.320	14.327	VV	102	376	0.01%	0.001%
383	14.343	14.327	14.350	VV	149	1713	0.06%	0.003%
384	14.373	14.350	14.377	VV	469	5086	0.17%	0.008%
385	14.382	14.377	14.413	VV	484	6969	0.23%	0.010%
386	14.426	14.413	14.436	VV	139	1814	0.06%	0.003%
387	14.447	14.436	14.457	VV	227	1720	0.06%	0.003%
388	14.460	14.457	14.465	VV	108	361	0.01%	0.001%
389	14.484	14.465	14.489	PV	123	863	0.03%	0.001%
390	14.514	14.489	14.518	VV	494	4910	0.16%	0.007%
391	14.542	14.518	14.592	VV	2355	46117	1.55%	0.068%
392	14.617	14.592	14.646	VV	580	14557	0.49%	0.021%
393	14.665	14.646	14.688	VV	501	7897	0.27%	0.012%
394	14.716	14.688	14.750	VV	5444	80032	2.69%	0.118%
395	14.771	14.750	14.797	VV	2707	41324	1.39%	0.061%
396	14.812	14.797	14.849	VV	921	17151	0.58%	0.025%
397	14.872	14.849	14.891	VV	476	7417	0.25%	0.011%
398	14.935	14.891	14.971	PV	2420	39015	1.31%	0.058%
399	14.979	14.971	14.989	VV	441	4082	0.14%	0.006%
400	14.994	14.989	15.016	VV	375	3925	0.13%	0.006%
401	15.051	15.016	15.087	VV	104307	1443125	48.45%	2.130%
402	15.102	15.087	15.126	VV	954	16362	0.55%	0.024%
403	15.133	15.126	15.144	VV	274	2587	0.09%	0.004%
404	15.148	15.144	15.157	VV	236	1547	0.05%	0.002%

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405	15.183	15.157	15.200	VV	1120	15047	0.51%	0.022%
406	15.258	15.200	15.290	VV	216584	2876032	96	
407	15.302	15.290	15.328	VV	716	10299	0	
408	15.348	15.328	15.357	VV	303	3867	0	
409	15.379	15.357	15.387	VV	301	3886	0	
410	15.392	15.387	15.412	VV	263	2093	0	
411	15.422	15.412	15.427	PV	169	941	0.03%	0.001%
412	15.454	15.427	15.462	VV	347	4533	0.15%	0.007%
413	15.492	15.462	15.500	VV	316	5990	0.20%	0.009%
414	15.510	15.500	15.515	VV	232	1695	0.06%	0.003%
415	15.523	15.515	15.530	VV	259	1461	0.05%	0.002%
416	15.535	15.530	15.546	VV	94	634	0.02%	0.001%
417	15.569	15.546	15.578	VV	249	2354	0.08%	0.003%
418	15.587	15.578	15.592	VV	343	2001	0.07%	0.003%
419	15.596	15.592	15.602	VV	274	1390	0.05%	0.002%
420	15.633	15.602	15.723	VV	54654	841979	28.27%	1.243%
421	15.734	15.723	15.745	VV	476	5348	0.18%	0.008%
422	15.777	15.745	15.810	VV	7003	111640	3.75%	0.165%
423	15.823	15.810	15.828	VV	1316	13039	0.44%	0.019%
424	15.852	15.828	15.881	VV	3978	60800	2.04%	0.090%
425	15.906	15.881	15.937	VV	709	13278	0.45%	0.020%
426	15.960	15.937	15.965	PV	211	1813	0.06%	0.003%
427	15.992	15.965	16.017	VV	2017	33026	1.11%	0.049%
428	16.021	16.017	16.059	VV	711	11401	0.38%	0.017%
429	16.075	16.059	16.081	VV	355	3812	0.13%	0.006%
430	16.101	16.081	16.118	VV	544	8104	0.27%	0.012%
431	16.153	16.118	16.196	VV	1779	34636	1.16%	0.051%
432	16.200	16.196	16.210	VV	310	2080	0.07%	0.003%
433	16.214	16.210	16.227	VV	237	1742	0.06%	0.003%
434	16.280	16.227	16.325	VV	207307	2795526	93.86%	4.126%
435	16.341	16.325	16.356	VV	356	4760	0.16%	0.007%
436	16.377	16.356	16.388	VV	230	3473	0.12%	0.005%
437	16.395	16.388	16.401	PV	178	707	0.02%	0.001%
438	16.413	16.401	16.417	PV	97	480	0.02%	0.001%
439	16.422	16.417	16.427	VV	168	574	0.02%	0.001%
440	16.470	16.427	16.486	VV	784	13576	0.46%	0.020%
441	16.491	16.486	16.499	VV	410	3005	0.10%	0.004%
442	16.503	16.499	16.507	VV	330	1616	0.05%	0.002%
443	16.520	16.507	16.527	VV	445	4183	0.14%	0.006%
444	16.531	16.527	16.541	VV	351	2301	0.08%	0.003%
445	16.579	16.541	16.622	VV	1649	41042	1.38%	0.061%
446	16.650	16.622	16.680	VV	5331	104226	3.50%	0.154%
447	16.695	16.680	16.716	VV	2613	37703	1.27%	0.056%
448	16.762	16.716	16.797	VV	7575	130727	4.39%	0.193%
449	16.842	16.797	16.866	PV	1241	20197	0.68%	0.030%
450	16.872	16.866	16.877	VV	440	2567	0.09%	0.004%
451	16.900	16.877	16.904	VV	516	6875	0.23%	0.010%
452	16.908	16.904	16.913	VV	398	1958	0.07%	0.003%
453	16.917	16.913	16.926	VV	404	2858	0.10%	0.004%
454	16.928	16.926	16.949	VV	367	2943	0.10%	0.004%
455	16.977	16.949	16.991	VV	375	7279	0.24%	0.011%
456	17.023	16.991	17.046	VV	1633	34781	1.17%	0.051%

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0.51% 0.022%

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						nteres		ent sample : RES-BUILDING-PAD		
457	17.065	17.046	17.094	VV	1700	32787	1.10%	0.048%		
458	17.119	17.094	17.162	VV	1691	31973	Manual Integration			
459	17.231	17.162	17.264	VV	198960	2736453			91.10%	0.000%
460	17.281	17.264	17.306	VV	3737	55040			1.00%	0.000%
461	17.308	17.306	17.347	VV	902	8707			0.00%	0.000%
462	17.363	17.347	17.372	VV	203	1727	0.00%	0.000%		
463	17.374	17.372	17.381	VV	127	384	0.001%	0.0001%		
464	17.406	17.381	17.410	PV	176	1257	0.004%	0.0002%		
465	17.440	17.410	17.444	VV	509	7618	0.026%	0.0011%		
466	17.450	17.444	17.458	VV	470	3381	0.011%	0.0005%		
467	17.481	17.458	17.504	VV	905	15686	0.053%	0.0023%		
468	17.519	17.504	17.528	VV	536	5189	0.017%	0.0008%		
469	17.596	17.528	17.636	VV	3018	89831	3.002%	0.0133%		
470	17.679	17.636	17.742	VV	7586	140021	4.70%	0.0207%		
471	17.762	17.742	17.780	VV	737	10388	0.035%	0.0015%		
472	17.798	17.780	17.816	VV	1050	15041	0.050%	0.0022%		
473	17.821	17.816	17.828	VV	259	1695	0.006%	0.0003%		
474	17.858	17.828	17.871	VV	653	10063	0.034%	0.0015%		
475	17.876	17.871	17.881	VV	274	1395	0.005%	0.0002%		
476	17.920	17.881	17.937	VV	318	8158	0.027%	0.0012%		
477	17.968	17.937	17.982	PV	762	15879	0.053%	0.0023%		
478	18.010	17.982	18.022	VV	1275	21136	0.071%	0.0031%		
479	18.074	18.022	18.085	VV	3420	69797	2.34%	0.0103%		
480	18.120	18.085	18.155	VV	188799	2601790	87.36%	3.840%		
481	18.206	18.155	18.228	VV	2417	62549	2.10%	0.0092%		
482	18.268	18.228	18.323	VV	3973	114547	3.85%	0.0169%		
483	18.347	18.323	18.379	VV	2136	45593	1.53%	0.0067%		
484	18.401	18.379	18.411	VV	1198	18223	0.061%	0.0027%		
485	18.474	18.411	18.520	VV	29512	631740	21.21%	0.0932%		
486	18.541	18.520	18.574	VV	8088	147243	4.94%	0.0217%		
487	18.580	18.574	18.594	VV	1558	15771	0.053%	0.0023%		
488	18.636	18.594	18.661	VV	5629	120429	4.04%	0.0178%		
489	18.667	18.661	18.696	VV	2224	36763	1.23%	0.0054%		
490	18.707	18.696	18.722	VV	1457	20762	0.070%	0.0031%		
491	18.745	18.722	18.778	VV	2536	55900	1.88%	0.0082%		
492	18.803	18.778	18.813	VV	1690	28382	0.095%	0.0042%		
493	18.838	18.813	18.852	VV	1649	36074	1.21%	0.0053%		
494	18.861	18.852	18.866	VV	1647	12024	0.040%	0.0018%		
495	18.900	18.866	18.907	VV	2663	51357	1.72%	0.0076%		
496	18.952	18.907	19.001	VV	153305	2254760	75.70%	3.328%		
497	19.061	19.001	19.090	VV	6752	220064	7.39%	0.0325%		
498	19.105	19.090	19.139	VV	4644	104459	3.51%	0.0154%		
499	19.144	19.139	19.150	VV	2616	15818	0.053%	0.0023%		
500	19.164	19.150	19.170	VV	2613	31188	1.05%	0.0046%		
501	19.183	19.170	19.187	VV	2668	25434	0.085%	0.0038%		
502	19.203	19.187	19.224	VV	3166	63261	2.12%	0.0093%		
503	19.232	19.224	19.243	VV	3007	32229	1.08%	0.0048%		
504	19.304	19.243	19.335	VV	25434	570617	19.16%	0.0842%		
505	19.351	19.335	19.380	VV	10181	231562	7.77%	0.0342%		
506	19.386	19.380	19.396	VV	6062	55981	1.88%	0.0083%		
507	19.402	19.396	19.407	VV	5744	37841	1.27%	0.0056%		
508	19.417	19.407	19.440	VV	6481	113807	3.82%	0.0168%		
509	19.457	19.440	19.465	VV	5698	80055	2.69%	0.0118%		

510	19.488	19.465	19.520	VV	7035	198767		
511	19.547	19.520	19.580	VV	7762	218773		
512	19.587	19.580	19.596	VV	5456	53758		
513	19.605	19.596	19.627	VV	5487	94830		
514	19.644	19.627	19.661	VV	5887	111075		
515	19.672	19.661	19.678	VV	5570	54184		
516	19.684	19.678	19.690	VV	5584	37382	1.26%	0.055%
517	19.737	19.690	19.783	VV	103282	1744174	58.56%	2.574%
518	19.798	19.783	19.808	VV	7569	108762	3.65%	0.161%
519	19.839	19.808	19.880	VV	9115	334066	11.22%	0.493%
520	19.904	19.880	19.929	VV	8458	221729	7.44%	0.327%
521	19.934	19.929	19.947	VV	6858	70852	2.38%	0.105%
522	19.969	19.947	19.990	VV	7958	191342	6.42%	0.282%
523	20.014	19.990	20.030	VV	8373	186246	6.25%	0.275%
524	20.037	20.030	20.058	VV	7880	128820	4.33%	0.190%
525	20.098	20.058	20.135	VV	14438	536177	18.00%	0.791%
526	20.145	20.135	20.173	VV	10051	220915	7.42%	0.326%
527	20.179	20.173	20.198	VV	9433	133775	4.49%	0.197%
528	20.204	20.198	20.206	VV	9000	43187	1.45%	0.064%
529	20.210	20.206	20.216	VV	9014	55910	1.88%	0.083%
530	20.250	20.216	20.256	VV	10101	226323	7.60%	0.334%
531	20.274	20.256	20.295	VV	10800	241274	8.10%	0.356%
532	20.328	20.295	20.338	VV	12338	290595	9.76%	0.429%
533	20.359	20.338	20.378	VV	14156	311594	10.46%	0.460%
534	20.384	20.378	20.410	VV	12253	229240	7.70%	0.338%
535	20.415	20.410	20.419	VV	11821	63073	2.12%	0.093%
536	20.476	20.419	20.514	VV	76316	1720018	57.75%	2.538%
537	20.553	20.514	20.567	VV	14454	448576	15.06%	0.662%
538	20.583	20.567	20.591	VV	14465	198447	6.66%	0.293%
539	20.635	20.591	20.668	VV	25679	838458	28.15%	1.237%
540	20.703	20.668	20.713	VV	17772	461224	15.49%	0.681%
541	20.732	20.713	20.770	VV	18800	592223	19.88%	0.874%
542	20.788	20.770	20.801	VV	16000	292396	9.82%	0.432%
543	20.829	20.801	20.867	VV	16888	611892	20.54%	0.903%
544	20.892	20.867	20.911	VV	14251	366424	12.30%	0.541%
545	20.955	20.911	21.007	VV	14816	817601	27.45%	1.207%
546	21.013	21.007	21.018	VV	13062	82220	2.76%	0.121%
547	21.025	21.018	21.041	VV	12738	173500	5.83%	0.256%
548	21.046	21.041	21.055	VV	12541	102270	3.43%	0.151%
549	21.109	21.055	21.117	VV	12608	465705	15.64%	0.687%
550	21.121	21.117	21.129	VV	12369	90772	3.05%	0.134%
551	21.145	21.129	21.163	VV	12425	242613	8.15%	0.358%
552	21.169	21.163	21.177	VV	11984	101940	3.42%	0.150%
553	21.225	21.177	21.271	VV	53847	1451891	48.75%	2.143%
554	21.283	21.271	21.301	VV	10623	187041	6.28%	0.276%
555	21.332	21.301	21.343	VV	10929	261162	8.77%	0.385%
556	21.349	21.343	21.356	VV	10556	80861	2.71%	0.119%
557	21.363	21.356	21.368	VV	10457	77270	2.59%	0.114%
558	21.372	21.368	21.390	VV	10412	133738	4.49%	0.197%
559	21.397	21.390	21.453	VV	9862	328459	11.03%	0.485%
560	21.457	21.453	21.483	VV	7843	134502	4.52%	0.198%
561	21.499	21.483	21.504	VV	7719	90804	3.05%	0.134%

Instrument :

FID_G

ClientSampleId :

RES-BUILDING-PAD-NO-2MSD

6.67% 0.293%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :Ankita Jodhani 11/04/2024

					rters			
562	21.531	21.504	21.538	VV	7826	157468	5.29%	0.232%
563	21.543	21.538	21.550	VV	7752	53568		
564	21.575	21.550	21.584	VV	8616	168858		
565	21.591	21.584	21.608	VV	8556	117953		
566	21.657	21.608	21.719	VV	9256	520587	17.14%	0.063%
567	21.724	21.719	21.730	VV	5222	31489		
568	21.734	21.730	21.744	VV	5160	42876	1.44%	0.063%
569	21.747	21.744	21.753	VV	4986	27049	0.91%	0.040%
570	21.773	21.753	21.791	VV	5133	112424	3.77%	0.166%
571	21.798	21.791	21.817	VV	4830	72640	2.44%	0.107%
572	21.831	21.817	21.840	VV	4634	60137	2.02%	0.089%
573	21.870	21.840	21.876	VV	4897	102528	3.44%	0.151%
574	21.882	21.876	21.891	VV	4856	43306	1.45%	0.064%
575	21.906	21.891	21.914	VV	4658	59725	2.01%	0.088%
576	21.918	21.914	21.935	VV	4255	50877	1.71%	0.075%
577	21.941	21.935	21.956	VV	3739	44958	1.51%	0.066%
578	21.968	21.956	21.976	VV	3339	36237	1.22%	0.053%
579	21.991	21.976	21.997	VV	3403	42535	1.43%	0.063%
580	22.035	21.997	22.050	VV	3824	111498	3.74%	0.165%
581	22.057	22.050	22.071	VV	3475	41097	1.38%	0.061%
582	22.088	22.071	22.110	VV	3171	68503	2.30%	0.101%
583	22.169	22.110	22.228	VV	35325	949093	31.87%	1.401%
584	22.240	22.228	22.267	VV	1716	33284	1.12%	0.049%
585	22.272	22.267	22.297	VV	1052	9580	0.32%	0.014%

Sum of corrected areas: 67760187

FG102124.M Mon Nov 04 03:07:01 2024

Instrument :
FID_G
ClientSampleId :
RES-BUILDING-PAD-NO-2MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
.BLK		FG014617.D	FG110124	TETRACOSANE-d50 (SURROGA	Ankita	11/4/2024 2:13:08 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG014618.D	FG110124	N-TETRATRIACONTANE	Ankita	11/4/2024 2:13:10 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG014618.D	FG110124	TETRACOSANE-d50 (SURROGA	Ankita	11/4/2024 2:13:10 PM	Peak Integrated by Software incorrectly
P4663-08		FG014624.D	FG110124	TETRACOSANE-d50 (SURROGA	Ankita	11/4/2024 2:13:12 PM	Peak Integrated by Software incorrectly
.BLK		FG014625.D	FG110124	TETRACOSANE-d50 (SURROGA	Ankita	11/4/2024 2:13:13 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG014626.D	FG110124	TETRACOSANE-d50 (SURROGA	Ankita	11/4/2024 2:13:15 PM	Peak Integrated by Software incorrectly
PB164602BS		FG014628.D	FG110124	N-DOTRIACONTANE	Ankita	11/4/2024 2:13:16 PM	Peak Integrated by Software incorrectly
PB164602BS		FG014628.D	FG110124	N-HEXACOSANE	Ankita	11/4/2024 2:13:16 PM	Peak Integrated by Software incorrectly
PB164602BS		FG014628.D	FG110124	N-HEXATRIACONTANE	Ankita	11/4/2024 2:13:16 PM	Peak Integrated by Software incorrectly
PB164602BS		FG014628.D	FG110124	N-OCTACOSANE	Ankita	11/4/2024 2:13:16 PM	Peak Integrated by Software incorrectly
PB164602BS		FG014628.D	FG110124	N-TRIACONTANE	Ankita	11/4/2024 2:13:16 PM	Peak Integrated by Software incorrectly
P4663-08MS		FG014629.D	FG110124	N-HEXATRIACONTANE	Ankita	11/4/2024 2:13:18 PM	Peak Integrated by Software incorrectly
P4663-08MS		FG014629.D	FG110124	N-OCTACOSANE	Ankita	11/4/2024 2:13:18 PM	Peak Integrated by Software incorrectly
P4663-08MSD		FG014630.D	FG110124	N-HEXATRIACONTANE	Ankita	11/4/2024 2:13:19 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FG014632.D	FG110124	TETRACOSANE-d50 (SURROGA	Ankita	11/4/2024 2:13:21 PM	Peak Integrated by Software incorrectly

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG102124

Review By	yogesh	Review On	10/21/2024 1:42:42 PM
Supervise By	Ankita	Supervise On	10/22/2024 8:58:41 AM
SubDirectory	FG102124	HP Acquire Method	HP Processing Method FG102124
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616		
CCC Internal Standard/PEM	PP23613		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23612,PP23617		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG014451.D	21 Oct 2024 13:52	YP\AJ	Ok
2	I.BLK	FG014452.D	21 Oct 2024 14:21	YP\AJ	Ok
3	100 TRPH STD	FG014453.D	21 Oct 2024 14:50	YP\AJ	Ok
4	50 TRPH STD	FG014454.D	21 Oct 2024 15:19	YP\AJ	Ok
5	20 TRPH STD	FG014455.D	21 Oct 2024 15:48	YP\AJ	Ok
6	10 TRPH STD	FG014456.D	21 Oct 2024 16:17	YP\AJ	Ok
7	5 TRPH STD	FG014457.D	21 Oct 2024 16:46	YP\AJ	Ok
8	FG102124ICV	FG014458.D	21 Oct 2024 17:15	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG110124

Review By	yogesh	Review On	11/1/2024 3:34:30 PM
Supervise By	Ankita	Supervise On	11/4/2024 2:13:36 PM
SubDirectory	FG110124	HP Acquire Method	HP Processing Method FG102124
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616		
CCC Internal Standard/PEM	PP23613		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23612,PP23617		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG014616.D	01 Nov 2024 12:22	YP\AJ	Ok
2	I.BLK	FG014617.D	01 Nov 2024 12:50	YP\AJ	Ok,M
3	50 PPM TRPH STD	FG014618.D	01 Nov 2024 13:18	YP\AJ	Ok,M
4	RT MARKER	FG014619.D	01 Nov 2024 13:47	YP\AJ	Ok
5	PP23935	FG014620.D	01 Nov 2024 14:15	YP\AJ	Ok
6	P4663-02	FG014621.D	01 Nov 2024 14:43	YP\AJ	Ok
7	P4663-04	FG014622.D	01 Nov 2024 15:12	YP\AJ	Ok
8	P4663-06	FG014623.D	01 Nov 2024 15:40	YP\AJ	Ok
9	P4663-08	FG014624.D	01 Nov 2024 16:09	YP\AJ	Ok,M
10	I.BLK	FG014625.D	01 Nov 2024 16:37	YP\AJ	Ok,M
11	50 PPM TRPH STD	FG014626.D	01 Nov 2024 17:34	YP\AJ	Ok,M
12	PB164602BL	FG014627.D	01 Nov 2024 18:31	YP\AJ	Ok
13	PB164602BS	FG014628.D	01 Nov 2024 19:00	YP\AJ	Ok,M
14	P4663-08MS	FG014629.D	01 Nov 2024 19:28	YP\AJ	Ok,M
15	P4663-08MSD	FG014630.D	01 Nov 2024 19:56	YP\AJ	Ok,M
16	I.BLK	FG014631.D	01 Nov 2024 20:25	YP\AJ	Ok
17	50 PPM TRPH STD	FG014632.D	01 Nov 2024 21:22	YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG102124

Review By	yogesh	Review On	10/21/2024 1:42:42 PM
Supervise By	Ankita	Supervise On	10/22/2024 8:58:41 AM
SubDirectory	FG102124	HP Acquire Method	HP Processing Method FG102124

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG014451.D	21 Oct 2024 13:52		YP\AJ	Ok
2	I.BLK		FG014452.D	21 Oct 2024 14:21		YP\AJ	Ok
3	100 TRPH STD		FG014453.D	21 Oct 2024 14:50		YP\AJ	Ok
4	50 TRPH STD		FG014454.D	21 Oct 2024 15:19		YP\AJ	Ok
5	20 TRPH STD		FG014455.D	21 Oct 2024 15:48		YP\AJ	Ok
6	10 TRPH STD		FG014456.D	21 Oct 2024 16:17		YP\AJ	Ok
7	5 TRPH STD		FG014457.D	21 Oct 2024 16:46		YP\AJ	Ok
8	FG102124ICV		FG014458.D	21 Oct 2024 17:15		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG110124

Review By	yogesh	Review On	11/1/2024 3:34:30 PM
Supervise By	Ankita	Supervise On	11/4/2024 2:13:36 PM
SubDirectory	FG110124	HP Acquire Method	HP Processing Method FG102124
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23611,PP23613,PP23614,PP23615,PP23616		
CCC	PP23613		
Internal Standard/PEM	PP23612,PP23617		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG014616.D	01 Nov 2024 12:22		YPIAJ	Ok
2	I.BLK		FG014617.D	01 Nov 2024 12:50		YPIAJ	Ok,M
3	50 PPM TRPH STD		FG014618.D	01 Nov 2024 13:18		YPIAJ	Ok,M
4	RT MARKER		FG014619.D	01 Nov 2024 13:47		YPIAJ	Ok
5	PP23935		FG014620.D	01 Nov 2024 14:15		YPIAJ	Ok
6	P4663-02		FG014621.D	01 Nov 2024 14:43		YPIAJ	Ok
7	P4663-04		FG014622.D	01 Nov 2024 15:12		YPIAJ	Ok
8	P4663-06		FG014623.D	01 Nov 2024 15:40		YPIAJ	Ok
9	P4663-08		FG014624.D	01 Nov 2024 16:09		YPIAJ	Ok,M
10	I.BLK		FG014625.D	01 Nov 2024 16:37		YPIAJ	Ok,M
11	50 PPM TRPH STD		FG014626.D	01 Nov 2024 17:34		YPIAJ	Ok,M
12	PB164602BL		FG014627.D	01 Nov 2024 18:31		YPIAJ	Ok
13	PB164602BS		FG014628.D	01 Nov 2024 19:00		YPIAJ	Ok,M
14	P4663-08MS		FG014629.D	01 Nov 2024 19:28		YPIAJ	Ok,M
15	P4663-08MSD		FG014630.D	01 Nov 2024 19:56		YPIAJ	Ok,M
16	I.BLK		FG014631.D	01 Nov 2024 20:25		YPIAJ	Ok
17	50 PPM TRPH STD		FG014632.D	01 Nov 2024 21:22		YPIAJ	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133250

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
P4647-01	01A-01B-01C	1	1.00	1.00	2.00	2.00	100.0	caluk
P4658-01	B-131-1-SB02	2	1.16	8.56	9.72	5.57	51.5	
P4658-02	B-131-2-SB02	3	1.15	8.63	9.78	5.91	55.2	
P4658-03	B-131-3-SB02	4	1.14	8.37	9.51	5.83	56.0	
P4659-02	MH-2-EPH	5	1.14	8.59	9.73	8.7	88.0	
P4659-03	MH-2-VOC	6	1.16	8.70	9.86	8.83	88.2	
P4660-02	WC-TA2-01-C	7	1.13	8.76	9.89	8.92	88.9	
P4660-06	WC-WOOD-01-C	8	1.00	1.00	2.00	2.00	100.0	wood chips
P4660-10	WC-CONCRETE-01-C	9	1.14	8.55	9.69	9.03	92.3	
P4660-12	WC-CONCRETE-01-C	10	1.14	8.54	9.68	9.06	92.7	
P4661-01	102824-A	11	1.00	1.00	2.00	2.00	100.0	wipe sample
P4661-02	102824-B	12	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-01	102524-DRIP-A	13	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-02	102524-B	14	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-03	102524-C	15	1.00	1.00	2.00	2.00	100.0	wipe sample
P4663-01	TENNANT-PAD-2-3-STOCKPILE	16	1.14	8.75	9.89	9.1	91.0	
P4663-02	TENNANT-PAD-2-3-STOCKPILE	17	1.16	8.75	9.91	9.11	90.9	
P4663-03	RES-BUILDING-PAD-NO-11	18	1.16	8.74	9.9	9.19	91.9	
P4663-04	RES-BUILDING-PAD-NO-11	19	1.16	8.67	9.83	9.11	91.7	
P4663-05	RES-BUILDING-PAD-NO-3	20	1.15	8.61	9.76	8.94	90.5	
P4663-06	RES-BUILDING-PAD-NO-3	21	1.16	8.64	9.8	9.04	91.2	
P4663-07	RES-BUILDING-PAD-NO-2	22	1.16	8.46	9.62	8.41	85.7	
P4663-08	RES-BUILDING-PAD-NO-2	23	1.17	8.78	9.95	9.19	91.3	
P4667-01	BP-F-6	24	1.16	8.42	9.58	8.66	89.1	
P4667-02	BP-F-6-EPH	25	1.18	8.51	9.69	8.7	88.4	
P4667-03	BP-F-6-VOC	26	1.19	8.65	9.84	8.88	88.9	
P4667-05	BP-F-5	27	1.16	8.51	9.67	8.76	89.3	

PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133250

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
P4667-06	BP-F-5-EPH	28	1.16	8.52	9.68	8.76	89.2	
P4667-07	BP-F-5-VOC	29	1.17	8.64	9.81	8.79	88.2	
P4667-09	BP-F-10	30	1.17	8.78	9.95	8.98	89.0	
P4667-10	BP-F-10-EPH	31	1.17	8.54	9.71	8.84	89.8	
P4667-11	BP-F-10-VOC	32	1.16	8.81	9.97	9.06	89.7	
P4667-13	BP-F-7	33	1.16	8.71	9.87	8.91	89.0	
P4667-14	BP-F-7-EPH	34	1.17	8.44	9.61	8.57	87.7	
P4667-15	BP-F-7-VOC	35	1.18	8.42	9.6	8.72	89.5	
P4672-01	TAPLPR-SED06-103024-00-T2	36	1.19	8.65	9.84	7.71	75.4	
P4672-02	TAPLPR-SED07-103024-00-T2	37	1.19	8.47	9.66	8.48	86.1	
P4672-03	TAPLPR-SED03-103024-00-T2	38	1.19	8.68	9.87	8.31	82.0	
P4672-04	TAPLPR-SED04-103024-00-T2	39	1.19	8.77	9.96	8.77	86.4	
P4672-05	TAPLPR-SED05-103024-00-T2	40	1.18	8.62	9.8	8.41	83.9	
P4675-01	COMP-1	41	1.18	8.56	9.74	7.85	77.9	
P4675-02	COMP-2	42	1.19	8.48	9.67	8.46	85.7	
P4675-03	COMP-3	43	1.19	8.78	9.97	8.99	88.8	
P4675-04	COMP-4	44	1.18	8.71	9.89	8.4	82.9	
P4675-05	COMP-5	45	1.17	8.54	9.71	8.18	82.1	
P4675-06	COMP-6	46	1.17	8.70	9.87	8.24	81.3	
P4677-01	2410-6346	47	1.00	1.00	2.00	2.00	100.0	PAINT CHIPS
P4679-01	MH-1	48	1.18	8.80	9.98	8.98	88.6	
P4679-02	MH-1-EPH	49	1.19	8.58	9.77	8.65	86.9	
P4679-03	MH-1-VOC	50	1.19	8.62	9.81	8.72	87.4	
P4680-01	BP-F26	51	1.18	8.80	9.98	9.08	89.8	
P4680-02	BP-F26-EPH	52	1.18	8.44	9.62	8.71	89.2	
P4680-03	BP-F26-VOC	53	1.19	8.50	9.69	8.75	88.9	



PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133250

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
P4680-05	BP-F25	54	1.18	8.69	9.87	8.9	88.8	
P4680-06	BP-F25-EPH	55	1.19	8.79	9.98	8.91	87.8	
P4680-07	BP-F25-VOC	56	1.18	8.60	9.78	8.86	89.3	

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

WORKLIST(Hardcopy Internal Chain)

LB 183250

WorkList Name : %solid-110124 WorkList ID : 185025 Department : Wet-Chemistry Date : 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4647-01	01A-01B-01C	Solid	Percent Solids	Cool 4 deg C	BSIG01	K61	10/31/2024	Chemtech -SO
P4658-01	B-131-1-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4658-02	B-131-2-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4658-03	B-131-3-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4659-02	MH-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4659-03	MH-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4660-02	WC-TA2-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4660-06	WC-WOOD-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4660-10	WC-CONCRETE-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4660-12	WC-CONCRETE-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4661-01	102824-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4661-02	102824-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4662-01	102524-DRIP-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4662-02	102524-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4662-03	102524-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4663-01	TENNANT-PAD-2-3-STOCKPIL	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-03	RES-BUILDING-PAD-NO-11	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-04	RES-BUILDING-PAD-NO-11	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-05	RES-BUILDING-PAD-NO-3	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-06	RES-BUILDING-PAD-NO-3	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO

Date/Time 11/01/24 15:30 Date/Time 11/01/24 17:30
 Raw Sample Received by: SO web Raw Sample Received by: cm
 Raw Sample Relinquished by: 050r Raw Sample Relinquished by: SO web

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %solid-110124

WorkList ID : 185025

Department : Wet-Chemistry

Date : 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4663-07	RES-BUILDING-PAD-NO-2	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-08	RES-BUILDING-PAD-NO-2	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4667-01	BP-F-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-02	BP-F-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-03	BP-F-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-05	BP-F-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-06	BP-F-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-07	BP-F-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-09	BP-F-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-10	BP-F-10-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-11	BP-F-10-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-13	BP-F-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-14	BP-F-7-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-15	BP-F-7-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4672-01	TAPLPR-SED06-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-02	TAPLPR-SED07-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-03	TAPLPR-SED03-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-04	TAPLPR-SED04-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-05	TAPLPR-SED05-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4675-01	COMP-1	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-02	COMP-2	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO

Date/Time 11/01/2024 15:30
 Raw Sample Received by: JP WEC
 Raw Sample Relinquished by: ESR
 Date/Time 11/01/2024 18
 Raw Sample Received by: ESR
 Raw Sample Relinquished by: JP WEC

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %solid-110124 WorkList ID : 185025 Department : Wet-Chemistry Date : 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4675-03	COMP-3	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-04	COMP-4	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-05	COMP-5	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-06	COMP-6	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4677-01	2410-6346	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-01	MH-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-02	MH-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-03	MH-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4680-01	BP-F26	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-02	BP-F26-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-03	BP-F26-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-05	BP-F25	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-06	BP-F25-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-07	BP-F25-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO

Date/Time 11/01/24 15:30
 Raw Sample Received by: SO WCC
 Raw Sample Relinquished by: CSN

Date/Time 11/01/24 15:30
 Raw Sample Received by: CSN
 Raw Sample Relinquished by: SO WCC

SOP ID:	M3541-ASE Extraction-14		
Clean Up SOP #:	N/A	Extraction Start Date :	11/01/2024
Matrix :	Solid	Extraction Start Time :	11:35
Welgh By:	EH	Extraction By:	RS
Balance check:	RJ	Filter By:	RJ
Balance ID:	EX-SC-2	Extraction End Date :	11/01/2024
pH Strip Lot#:	N/A	Extraction End Time :	14:30
		Concentration By:	EH
		Supervisor By :	rajesh
Extraction Method:	☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet		

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	20 PPM	PP23518
Spike Sol 1	1.0ML	20 PPM	PP23454
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2538
Baked Na2SO4	N/A	EP2551
Sand	N/A	E2865
Methylene Chloride	N/A	E3822
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID:	N/A	Envap ID:	NEVAP-02
KD Bath Temperature:	N/A	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/01/24 14:35	RP (Ext Ray)	T-p-pest/PPB
	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/01/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164602BL	PB164602BL	TPH GC	30.01	N/A	ritesh	RUPESH	1			U5-1
PB164602BS	PB164602BS	TPH GC	30.03	N/A	ritesh	RUPESH	1			2
P4663-02	TENNANT-PAD-2-3-STOC KPILE	TPH GC	30.06	N/A	ritesh	RUPESH	1	D		3
P4663-04	RES-BUILDING-PAD-NO-1 1	TPH GC	30.09	N/A	ritesh	RUPESH	1	D		4
P4663-06	RES-BUILDING-PAD-NO-3	TPH GC	30.07	N/A	ritesh	RUPESH	1	D		5
P4663-08	RES-BUILDING-PAD-NO-2	TPH GC	30.03	N/A	ritesh	RUPESH	1	D		6
P4663-08MS	RES-BUILDING-PAD-NO-2 MS	TPH GC	30.08	N/A	ritesh	RUPESH	1	D		U6-1
P4663-08MS D	RES-BUILDING-PAD-NO-2 MSD	TPH GC	30.10	N/A	ritesh	RUPESH	1	D		2

8
11/01/24

169662
STW 11/1/24

WORKLIST(Hardcopy Internal Chain)

Worklist Name : P4663T Worklist ID : 185023 Department : Extraction Date : 11-01-2024 11:33:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	EPH_NF	Cool 4 deg C	UNIC002	K41	10/31/2024	NJEPH
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	TPH GC	Cool 4 deg C	UNIC002	K41	10/31/2024	8015D
P4663-04	RES-BUILDING-PAD-NO-11	Solid	EPH_NF	Cool 4 deg C	UNIC002	K41	10/31/2024	NJEPH
P4663-04	RES-BUILDING-PAD-NO-11	Solid	TPH GC	Cool 4 deg C	UNIC002	K41	10/31/2024	8015D
P4663-06	RES-BUILDING-PAD-NO-3	Solid	EPH_NF	Cool 4 deg C	UNIC002	K41	10/31/2024	NJEPH
P4663-06	RES-BUILDING-PAD-NO-3	Solid	TPH GC	Cool 4 deg C	UNIC002	K41	10/31/2024	8015D
P4663-08	RES-BUILDING-PAD-NO-2	Solid	EPH_NF	Cool 4 deg C	UNIC002	K41	10/31/2024	NJEPH
P4663-08	RES-BUILDING-PAD-NO-2	Solid	TPH GC	Cool 4 deg C	UNIC002	K41	10/31/2024	8015D

Date/Time 11/01/24 11:33
Raw Sample Received by: PJ Post long
Raw Sample Relinquished by: RM SM

Date/Time 11/01/24 12:00
Raw Sample Received by: RM SM
Raw Sample Relinquished by: PJ Post long



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number 2042152

P4663

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Union Paving & Construction Co

ADDRESS: 891 RT 10 E

CITY Whippany STATE: NJ ZIP:

ATTENTION: Gregory B

PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME:

PROJECT NO.: LOCATION:

PROJECT MANAGER: Gregory B

e-mail:

PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:

ADDRESS:

CITY STATE: ZIP:

ATTENTION: PHONE:

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 DAYS

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 _____

Clean Air VOCs
1 2 3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		E	B									← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
1.	Tennant Pad 2/3 Stockpile	SoL	X		10/31/24	1245	4	X										
2.	Tennant Pad 2/3 Stockpile			X		1250	4		X									0.0 ppm
3.	Res Building Pad No. 11		X			1300	4	X										
4.	Res Building Pad No. 11			X		1304	4		X									0.0 ppm
5.	Res Building Pad No. 3		X			1320	4	X										
6.	Res Building Pad No. 3			X		1326	4		X									0.0 ppm
7.	Res Building Pad No. 2		X			1335	4	X										
8.	Res Building Pad No. 2			X		1339	4		X									0.0 ppm
9.																		
10.																		

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

RELINQUISHED BY SAMPLER: 1. <i>[Signature]</i>	DATE/TIME: 1355 10-31-24	RECEIVED BY: 1. <i>[Signature]</i>	Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 2.3 °C
RELINQUISHED BY SAMPLER: 2. <i>[Signature]</i>	DATE/TIME:	RECEIVED BY: 2. <i>[Signature]</i>	Comments: PID Calibration 10-31-24
RELINQUISHED BY SAMPLER: 3. <i>[Signature]</i>	DATE/TIME: 1645 10-31-24	RECEIVED BY: 3. <i>[Signature]</i>	Page 1 of 1 CLIENT: ☐ Hand Delivered ☐ Other _____ CHEMTECH: ☐ Picked Up ☒ Field Sampling Shipment Complete ☒ YES ☐ NO



Environmental Laboratory

www.chemtech.net | EMAIL: PM@chemtech.net

Project Name: Union Paving & Construction Co
Service Order #: 10-31-24
Work Order #: 891 RT 10E
Labor WBS #: Whippary, NT
Facility/Site: Whippary, NT
Site Address: 891 RT 10E

Chemtech Order ID: QA 10-31-24
Sampler Name: Jeremy M Gregory
Client Project Coordinator & Phone: Gregory B
Page #: 1 of 1
Date: 10-31-24
Arrive Time: 1230
Depart Time: 1355

Waste Stream (circle one): drum / roll-off / soil pile / in-situ linear construction / frac-tank
Sample Matrices (circle all that apply): Water / Solid / NAPL / Concrete / Wipe

Collection Depths: 1 foot - 2 feet

Dimensions/CY: N/A

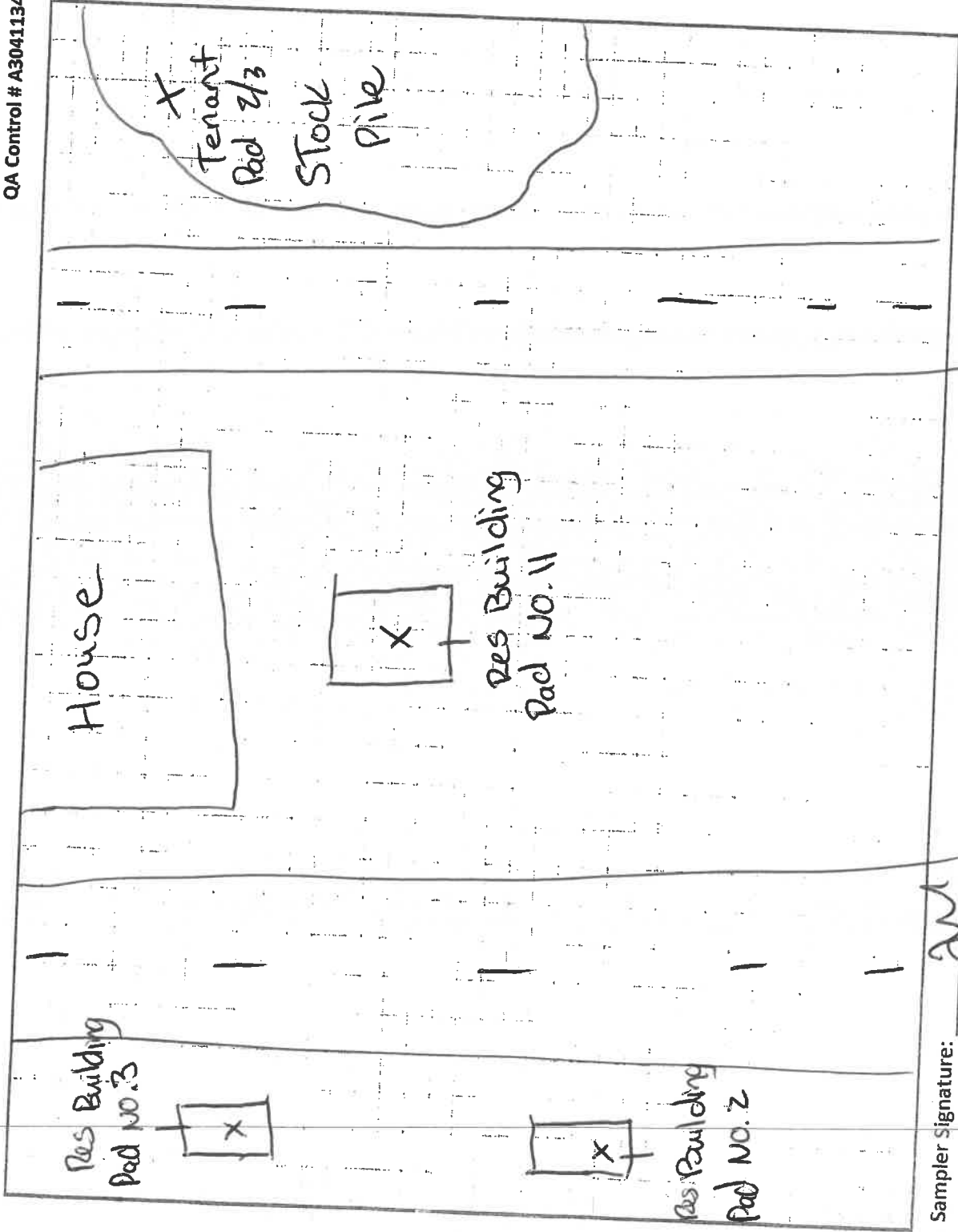
Temp (range): 2.3 °C PID Readings (range): PPM Odor: Y N Color: Y N

Sample Description: Brown Rocky Soil

Field Observations: 2 spots, (1) Excavation Stockpile (3) Test pits

Grid/Area Composite Map:

QA Control # A3041134



Sampler Signature: Jeremy M Gregory

Client Signature: _____

Supervisor Review/Date: _____

Date/Time Arrived at Lab: _____



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4663	UNIO02	Order Date : 10/31/2024 3:05:00 PM	Project Mgr :
Client Name : Union Paving & Constructio		Project Name : Rt. 10 Whippany	Report Type : Level 3
Client Contact : Gregory Butler		Receive DateTime : 10/31/2024 12:00:00 AM	EDD Type : Excel NJ
Invoice Name : Union Paving & Constructio		Purchase Order : 16:45	Hard Copy Date :
Invoice Contact : Gregory Butler			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4663-01	TENNANT-PAD-2-3-STOCKPILE	Solid	10/31/2024	12:45	VOCMS Group1		8260D	3 Bus. Days	
P4663-03	RES-BUILDING-PAD-NO-11	Solid	10/31/2024	13:00	VOCMS Group1		8260D	3 Bus. Days	
P4663-05	RES-BUILDING-PAD-NO-3	Solid	10/31/2024	13:20	VOCMS Group1		8260D	3 Bus. Days	
P4663-07	RES-BUILDING-PAD-NO-2	Solid	10/31/2024	13:35	VOCMS Group1		8260D	3 Bus. Days	

Relinquished By : Jed
Date / Time : 10-31-24 1710

Left inside
off SM fridge

Received By : Sen
Date / Time : 11/01/24 12:00 27#6
R22

Storage Area : VOA Refridgerator Room