

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

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

LAB CHRONICLE

OrderID:	P4810	OrderDate:	11/11/2024 2:32:00 PM
Client:	Sciacca General Contractors, LLC	Project:	124 Main St. Bloomingdale
Contact:	Daniel Scirica	Location:	L11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4810-01	WASTE	SOIL	TPH GC	8015D	11/11/24	11/15/24	11/15/24	11/11/24
P4810-03	1	Solid	EPH_F2	NJEPH	11/11/24	11/12/24	11/12/24	11/11/24
P4810-04	2	Solid	EPH_F2	NJEPH	11/11/24	11/12/24	11/13/24	11/11/24
P4810-05	3	Solid	EPH_F2	NJEPH	11/11/24	11/12/24	11/13/24	11/11/24
P4810-06	4	Solid	EPH_F2	NJEPH	11/11/24	11/12/24	11/13/24	11/11/24
P4810-07	5	Solid	EPH_F2	NJEPH	11/11/24	11/12/24	11/13/24	11/11/24
P4810-08	6	Solid	EPH_F2	NJEPH	11/11/24	11/12/24	11/14/24	11/11/24



QC SUMMARY

SOIL TPH GC SURROGATE RECOVERY

Lab Name: Chemtech Client: Sciacca General Contractors, LLC
Lab Code: CHEM Case No.: P4810 SAS No.: P4810 SDG No.: P4810

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FG014790.D	91				0
PIBLK-FG014798.D	89				0
WASTE	63				0
WASTEMS	65				0
WASTEMSD	63				0
PB164989BL	79				0
PB164989BS	85				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:** Sciacca General Contractors, LLC
Lab Code: CHEM **Cas No:** P4810 **SAS No :** P4810 **SDG No:** P4810
Client SampleID : WASTEMS **Datafile:** FG014796.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	14051	28000	45841	127%		68-131

SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Sciacca General Contractors, LLC
Lab Code: CHEM **Cas No:** P4810 **SAS No :** P4810 **SDG No:** P4810
Client SampleID : WASTEMSD **Datafile:** FG014797.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	14060	28000	45787	126%		68-131

MS/MSD % Recovery RPD : 0.4

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

Lab Name: Chemtech **Client:** Sciacca General Contractors, LLC
Lab Code: CHEM **Cas No:** P4810 **SAS No :** P4810 **SDG No:** P4810
Matrix Spike - EPA Sample No : PB164989BS **Datafile:** FG014794.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
Petroleum Hydrocarbons	11330	0	12398	109	68-131

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164989BL

Lab Name: CHEMTECH

Contract: SCIA01

Lab Code: CHEM Case No.: P4810

SAS No.: P4810 SDG NO.: P4810

Lab File ID: FG014793.D

Lab Sample ID: PB164989BL

Instrument ID: FG

Date Extracted: 11/15/2024

Matrix: (soil/water) Soil

Date Analyzed: 11/15/24

Level: (low/med) low

Time Analyzed: 11:24

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164989BS	PB164989BS	FG014794.D	11/15/24
WASTE	P4810-01	FG014795.D	11/15/24
WASTEMS	P4810-01MS	FG014796.D	11/15/24
WASTEMSD	P4810-01MSD	FG014797.D	11/15/24

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	11/11/24
Project:	124 Main St. Bloomingdale	Date Received:	11/11/24
Client Sample ID:	WASTE	SDG No.:	P4810
Lab Sample ID:	P4810-01	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	80.5
Sample Wt/Vol:	30.09	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
FG014795.D	1	11/15/24 08:20	11/15/24 12:21	PB164989

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	28000		394	3510	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	12.7		37 - 130	63%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014795.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 12:21
Operator : YP\AJ
Sample : P4810-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
WASTE

Integration File: autoint1.e
Quant Time: Nov 18 01:08:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.042	1423828	12.694 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

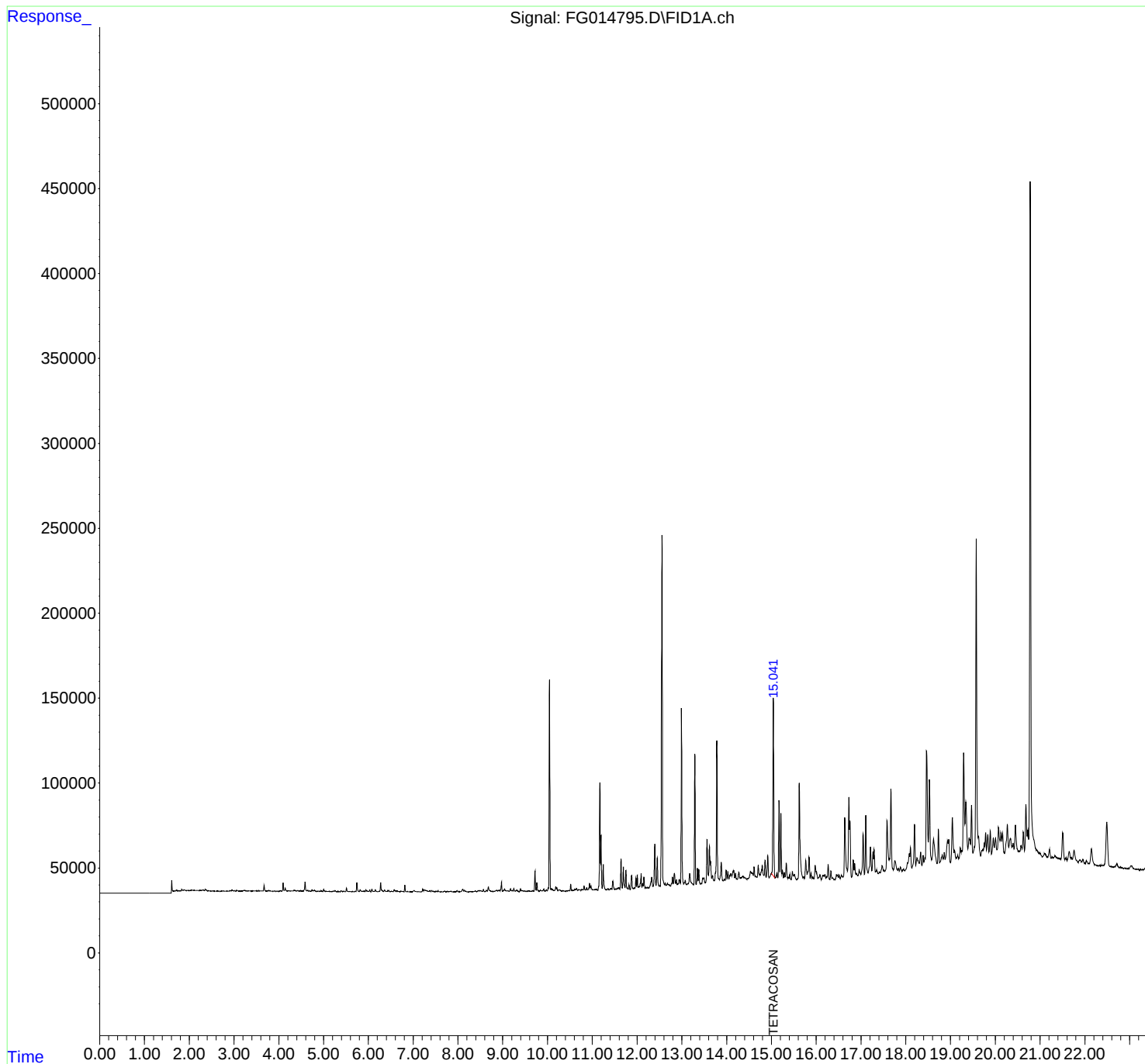
(m)=manual int.

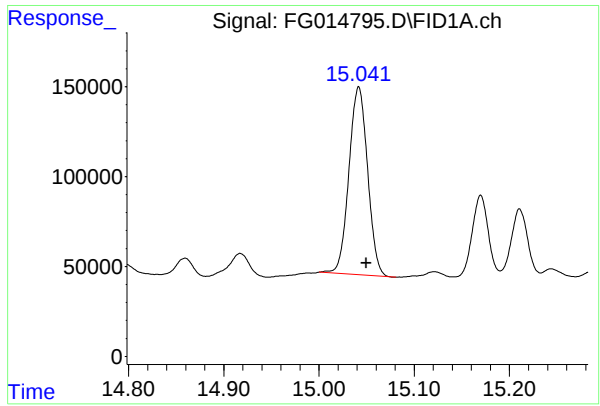
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014795.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 12:21
Operator : YP\AJ
Sample : P4810-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
WASTE

Integration File: autoint1.e
Quant Time: Nov 18 01:08:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.042 min
Delta R.T.: -0.008 min
Response: 1423828
Conc: 12.69 ug/ml

Instrument :
FID_G
ClientSampleId :
WASTE

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014795.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 12:21
Sample : P4810-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: Sample.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.961	1.906	1.966	BV	98	-1243	-0.02%	-0.002%
2	1.969	1.966	1.974	VV	137	447	0.01%	0.001%
3	1.978	1.974	1.993	VV	120	723	0.01%	0.001%
4	2.006	1.993	2.011	PV	126	816	0.01%	0.001%
5	2.016	2.011	2.027	VV	116	676	0.01%	0.001%
6	2.061	2.027	2.093	VV	459	10093	0.13%	0.013%
7	2.105	2.093	2.120	VV	314	4311	0.06%	0.006%
8	2.123	2.120	2.134	VV	289	2155	0.03%	0.003%
9	2.149	2.134	2.157	VV	298	3661	0.05%	0.005%
10	2.166	2.157	2.172	VV	286	2141	0.03%	0.003%
11	2.175	2.172	2.180	VV	294	1250	0.02%	0.002%
12	2.189	2.180	2.194	VV	331	2476	0.03%	0.003%
13	2.201	2.194	2.225	VV	315	4971	0.06%	0.007%
14	2.232	2.225	2.243	VV	256	2143	0.03%	0.003%
15	2.254	2.243	2.276	VV	422	6403	0.08%	0.008%
16	2.292	2.276	2.311	VV	649	9755	0.13%	0.013%
17	2.314	2.311	2.345	VV	526	8838	0.11%	0.012%
18	2.361	2.345	2.423	VV	1016	22308	0.29%	0.029%
19	2.437	2.423	2.454	VV	197	2578	0.03%	0.003%
20	2.460	2.454	2.469	VV	139	994	0.01%	0.001%
21	2.475	2.469	2.481	VV	133	733	0.01%	0.001%
22	2.485	2.481	2.498	VV	133	463	0.01%	0.001%
23	2.520	2.498	2.533	PV	207	2461	0.03%	0.003%
24	2.538	2.533	2.561	VV	167	1865	0.02%	0.002%
25	2.565	2.561	2.579	VV	107	714	0.01%	0.001%
26	2.584	2.579	2.590	VV	76	366	0.00%	0.000%
27	2.595	2.590	2.604	VV	95	498	0.01%	0.001%
28	2.625	2.604	2.642	VV	173	2191	0.03%	0.003%
29	2.646	2.642	2.653	VV	116	536	0.01%	0.001%
30	2.658	2.653	2.666	VV	109	476	0.01%	0.001%
31	2.673	2.666	2.690	VV	99	738	0.01%	0.001%
32	2.717	2.690	2.722	PV	146	1576	0.02%	0.002%
33	2.754	2.722	2.767	VV	237	4932	0.06%	0.006%
34	2.772	2.767	2.783	VV	165	1018	0.01%	0.001%
35	2.787	2.783	2.803	VV	69	866	0.01%	0.001%
36	2.807	2.803	2.826	VV	111	1404	0.02%	0.002%

					rteres			
37	2.829	2.826	2.834	VV	93	376	0.00%	0.000%
38	2.849	2.834	2.865	VV	193	2403	0.03%	0.003%
39	2.868	2.865	2.874	VV	132	631	0.01%	0.001%
40	2.878	2.874	2.883	VV	123	524	0.01%	0.001%
41	2.916	2.883	2.929	VV	428	8301	0.11%	0.011%
42	2.957	2.929	3.002	VV	758	19302	0.25%	0.025%
43	3.008	3.002	3.041	VV	330	6081	0.08%	0.008%
44	3.062	3.041	3.090	VV	615	10191	0.13%	0.013%
45	3.095	3.090	3.104	VV	280	1943	0.03%	0.003%
46	3.108	3.104	3.120	VV	222	1841	0.02%	0.002%
47	3.129	3.120	3.145	VV	258	3349	0.04%	0.004%
48	3.149	3.145	3.153	VV	251	1046	0.01%	0.001%
49	3.157	3.153	3.163	VV	221	1111	0.01%	0.001%
50	3.175	3.163	3.179	VV	232	1909	0.02%	0.002%
51	3.209	3.179	3.218	VV	442	7327	0.10%	0.010%
52	3.234	3.218	3.255	VV	647	10939	0.14%	0.014%
53	3.259	3.255	3.264	VV	370	1899	0.02%	0.002%
54	3.267	3.264	3.288	VV	440	4285	0.06%	0.006%
55	3.316	3.288	3.333	VV	405	8809	0.11%	0.012%
56	3.342	3.333	3.376	VV	322	6894	0.09%	0.009%
57	3.380	3.376	3.393	VV	288	2461	0.03%	0.003%
58	3.408	3.393	3.422	VV	247	3668	0.05%	0.005%
59	3.433	3.422	3.448	VV	293	3908	0.05%	0.005%
60	3.464	3.448	3.477	VV	372	5533	0.07%	0.007%
61	3.483	3.477	3.489	VV	361	2476	0.03%	0.003%
62	3.504	3.489	3.514	VV	444	6043	0.08%	0.008%
63	3.518	3.514	3.540	VV	427	5617	0.07%	0.007%
64	3.554	3.540	3.586	VV	435	9857	0.13%	0.013%
65	3.600	3.586	3.612	VV	374	5422	0.07%	0.007%
66	3.620	3.612	3.625	VV	368	2724	0.04%	0.004%
67	3.631	3.625	3.648	VV	396	4422	0.06%	0.006%
68	3.672	3.648	3.725	VV	3536	49025	0.64%	0.064%
69	3.731	3.725	3.744	VV	310	3203	0.04%	0.004%
70	3.773	3.744	3.793	VV	572	12574	0.16%	0.016%
71	3.807	3.793	3.836	VV	477	8317	0.11%	0.011%
72	3.847	3.836	3.855	VV	211	2233	0.03%	0.003%
73	3.859	3.855	3.871	VV	200	1654	0.02%	0.002%
74	3.883	3.871	3.891	VV	228	2501	0.03%	0.003%
75	3.903	3.891	3.937	VV	382	6867	0.09%	0.009%
76	3.951	3.937	3.959	VV	224	2688	0.03%	0.004%
77	3.964	3.959	3.977	VV	225	1951	0.03%	0.003%
78	3.998	3.977	4.011	VV	255	3845	0.05%	0.005%
79	4.033	4.011	4.049	VV	497	8111	0.11%	0.011%
80	4.055	4.049	4.077	VV	309	3998	0.05%	0.005%
81	4.096	4.077	4.126	VV	5200	56209	0.73%	0.074%
82	4.143	4.126	4.193	VV	2213	37271	0.48%	0.049%
83	4.216	4.193	4.233	VV	508	10021	0.13%	0.013%
84	4.241	4.233	4.256	VV	435	5002	0.06%	0.007%
85	4.275	4.256	4.285	VV	481	7233	0.09%	0.009%
86	4.298	4.285	4.303	VV	463	4760	0.06%	0.006%
87	4.314	4.303	4.326	VV	468	5884	0.08%	0.008%
88	4.357	4.326	4.375	VV	885	19521	0.25%	0.026%
89	4.382	4.375	4.395	VV	521	5217	0.07%	0.007%

					rteres			
90	4.398	4.395	4.404	VV	412	1965	0.03%	0.003%
91	4.421	4.404	4.459	VV	636	15024	0.19%	0.020%
92	4.468	4.459	4.473	VV	431	3320	0.04%	0.004%
93	4.493	4.473	4.518	VV	519	11473	0.15%	0.015%
94	4.525	4.518	4.541	VV	379	4592	0.06%	0.006%
95	4.588	4.541	4.628	VV	5837	86844	1.13%	0.114%
96	4.644	4.628	4.663	VV	832	12602	0.16%	0.016%
97	4.692	4.663	4.716	VV	476	11217	0.15%	0.015%
98	4.739	4.716	4.755	VV	1248	15113	0.20%	0.020%
99	4.766	4.755	4.777	VV	759	7969	0.10%	0.010%
100	4.795	4.777	4.838	VV	1029	20215	0.26%	0.026%
101	4.859	4.838	4.865	VV	391	4557	0.06%	0.006%
102	4.880	4.865	4.924	VV	387	10637	0.14%	0.014%
103	4.943	4.924	4.976	VV	585	11809	0.15%	0.015%
104	5.002	4.976	5.044	VV	1505	23925	0.31%	0.031%
105	5.050	5.044	5.097	VV	325	7362	0.10%	0.010%
106	5.123	5.097	5.144	VV	294	5704	0.07%	0.007%
107	5.154	5.144	5.163	VV	200	1730	0.02%	0.002%
108	5.175	5.163	5.197	VV	216	3520	0.05%	0.005%
109	5.210	5.197	5.217	VV	414	3544	0.05%	0.005%
110	5.228	5.217	5.243	VV	570	6266	0.08%	0.008%
111	5.259	5.243	5.287	VV	813	11101	0.14%	0.015%
112	5.293	5.287	5.306	VV	200	1901	0.02%	0.002%
113	5.323	5.306	5.339	VV	221	3039	0.04%	0.004%
114	5.345	5.339	5.364	VV	109	1012	0.01%	0.001%
115	5.390	5.364	5.429	PV	743	13110	0.17%	0.017%
116	5.450	5.429	5.471	VV	492	6505	0.08%	0.009%
117	5.478	5.471	5.492	VV	163	1683	0.02%	0.002%
118	5.512	5.492	5.541	VV	2380	26906	0.35%	0.035%
119	5.547	5.541	5.567	VV	303	3445	0.04%	0.005%
120	5.580	5.567	5.584	VV	307	2340	0.03%	0.003%
121	5.589	5.584	5.605	VV	313	2752	0.04%	0.004%
122	5.612	5.605	5.626	VV	163	1468	0.02%	0.002%
123	5.637	5.626	5.670	VV	315	4133	0.05%	0.005%
124	5.675	5.670	5.682	VV	125	744	0.01%	0.001%
125	5.708	5.682	5.721	VV	479	6116	0.08%	0.008%
126	5.743	5.721	5.799	VV	5504	69156	0.90%	0.090%
127	5.816	5.799	5.863	VV	1264	22809	0.30%	0.030%
128	5.866	5.863	5.873	VV	424	2133	0.03%	0.003%
129	5.896	5.873	5.921	VV	567	11118	0.14%	0.015%
130	5.946	5.921	5.962	VV	1253	16431	0.21%	0.021%
131	5.972	5.962	6.012	VV	731	13107	0.17%	0.017%
132	6.030	6.012	6.061	VV	1121	15012	0.19%	0.020%
133	6.080	6.061	6.110	VV	1684	23015	0.30%	0.030%
134	6.114	6.110	6.127	VV	326	3218	0.04%	0.004%
135	6.133	6.127	6.137	VV	324	1771	0.02%	0.002%
136	6.157	6.137	6.202	VV	1329	21620	0.28%	0.028%
137	6.246	6.202	6.255	VV	540	9936	0.13%	0.013%
138	6.276	6.255	6.294	VV	5589	61814	0.80%	0.081%
139	6.300	6.294	6.344	VV	1208	20440	0.27%	0.027%
140	6.362	6.344	6.413	VV	1214	24055	0.31%	0.031%
141	6.428	6.413	6.438	VV	551	6518	0.08%	0.009%

					rteres			
142	6.456	6.438	6.481	VV	1070	15465	0.20%	0.020%
143	6.486	6.481	6.492	VV	329	2045	0.03%	0.003%
144	6.512	6.492	6.522	VV	462	6311	0.08%	0.008%
145	6.526	6.522	6.532	VV	332	1962	0.03%	0.003%
146	6.539	6.532	6.555	VV	362	3810	0.05%	0.005%
147	6.576	6.555	6.589	VV	1337	16663	0.22%	0.022%
148	6.600	6.589	6.613	VV	867	10203	0.13%	0.013%
149	6.629	6.613	6.664	VV	777	17209	0.22%	0.023%
150	6.674	6.664	6.713	VV	422	7221	0.09%	0.009%
151	6.737	6.713	6.752	VV	546	9799	0.13%	0.013%
152	6.759	6.752	6.796	VV	405	7389	0.10%	0.010%
153	6.816	6.796	6.859	VV	4129	46155	0.60%	0.060%
154	6.869	6.859	6.884	VV	298	3434	0.04%	0.004%
155	6.895	6.884	6.922	VV	269	4093	0.05%	0.005%
156	6.926	6.922	6.931	VV	109	464	0.01%	0.001%
157	6.938	6.931	6.952	VV	199	1903	0.02%	0.002%
158	6.957	6.952	6.963	VV	236	1179	0.02%	0.002%
159	6.966	6.963	6.976	VV	205	913	0.01%	0.001%
160	7.022	6.976	7.053	PV	972	22937	0.30%	0.030%
161	7.057	7.053	7.081	VV	386	4805	0.06%	0.006%
162	7.090	7.081	7.106	VV	301	3582	0.05%	0.005%
163	7.129	7.106	7.161	VV	274	6123	0.08%	0.008%
164	7.193	7.161	7.199	VV	292	3974	0.05%	0.005%
165	7.215	7.199	7.230	VV	1830	20585	0.27%	0.027%
166	7.245	7.230	7.269	VV	1367	24905	0.32%	0.033%
167	7.275	7.269	7.298	VV	1068	16530	0.21%	0.022%
168	7.304	7.298	7.349	VV	835	18477	0.24%	0.024%
169	7.374	7.349	7.395	VV	950	15674	0.20%	0.020%
170	7.415	7.395	7.451	VV	1032	19432	0.25%	0.025%
171	7.461	7.451	7.483	VV	486	6877	0.09%	0.009%
172	7.486	7.483	7.491	VV	229	962	0.01%	0.001%
173	7.511	7.491	7.536	VV	744	10510	0.14%	0.014%
174	7.555	7.536	7.573	VV	935	11036	0.14%	0.014%
175	7.577	7.573	7.590	VV	291	2435	0.03%	0.003%
176	7.592	7.590	7.604	VV	231	1455	0.02%	0.002%
177	7.635	7.604	7.661	VV	232	5034	0.07%	0.007%
178	7.664	7.661	7.669	VV	128	455	0.01%	0.001%
179	7.698	7.669	7.732	VV	507	12510	0.16%	0.016%
180	7.750	7.732	7.765	VV	321	4294	0.06%	0.006%
181	7.774	7.765	7.791	VV	331	3739	0.05%	0.005%
182	7.806	7.791	7.815	VV	426	4282	0.06%	0.006%
183	7.837	7.815	7.886	VV	478	12434	0.16%	0.016%
184	7.894	7.886	7.902	VV	169	1209	0.02%	0.002%
185	7.907	7.902	7.929	VV	184	2235	0.03%	0.003%
186	7.976	7.929	8.016	VV	770	17138	0.22%	0.022%
187	8.033	8.016	8.047	VV	334	4550	0.06%	0.006%
188	8.109	8.047	8.130	VV	1756	38215	0.50%	0.050%
189	8.143	8.130	8.161	VV	1092	14100	0.18%	0.018%
190	8.173	8.161	8.207	VV	607	10007	0.13%	0.013%
191	8.217	8.207	8.241	VV	239	3136	0.04%	0.004%
192	8.268	8.241	8.286	PV	391	6560	0.09%	0.009%
193	8.290	8.286	8.311	VV	349	3317	0.04%	0.004%
194	8.316	8.311	8.320	VV	184	736	0.01%	0.001%

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195	8.340	8.320	8.354	VV	357	4912	0.06%	0.006%
196	8.366	8.354	8.370	VV	383	2853	0.04%	0.004%
197	8.390	8.370	8.417	VV	792	13123	0.17%	0.017%
198	8.460	8.417	8.475	VV	940	19077	0.25%	0.025%
199	8.490	8.475	8.508	VV	949	14826	0.19%	0.019%
200	8.516	8.508	8.530	VV	753	7904	0.10%	0.010%
201	8.536	8.530	8.554	VV	477	5930	0.08%	0.008%
202	8.570	8.554	8.595	VV	1558	19180	0.25%	0.025%
203	8.599	8.595	8.616	VV	294	2817	0.04%	0.004%
204	8.637	8.616	8.658	VV	1013	16533	0.21%	0.022%
205	8.681	8.658	8.728	VV	2882	55802	0.72%	0.073%
206	8.732	8.728	8.749	VV	501	4951	0.06%	0.006%
207	8.767	8.749	8.788	VV	427	6841	0.09%	0.009%
208	8.807	8.788	8.823	VV	471	7165	0.09%	0.009%
209	8.862	8.823	8.887	VV	950	24716	0.32%	0.032%
210	8.902	8.887	8.917	VV	842	11940	0.15%	0.016%
211	8.932	8.917	8.943	VV	1049	12724	0.16%	0.017%
212	8.974	8.943	8.996	VV	5877	74679	0.97%	0.098%
213	9.021	8.996	9.025	VV	752	8962	0.12%	0.012%
214	9.042	9.025	9.079	VV	1734	30744	0.40%	0.040%
215	9.084	9.079	9.101	VV	529	6230	0.08%	0.008%
216	9.115	9.101	9.149	VV	722	13330	0.17%	0.017%
217	9.174	9.149	9.205	VV	1753	29902	0.39%	0.039%
218	9.217	9.205	9.232	VV	808	10292	0.13%	0.013%
219	9.249	9.232	9.279	VV	1968	26080	0.34%	0.034%
220	9.315	9.279	9.355	VV	966	21305	0.28%	0.028%
221	9.365	9.355	9.375	VV	116	1045	0.01%	0.001%
222	9.398	9.375	9.415	VV	1708	22473	0.29%	0.029%
223	9.428	9.415	9.441	VV	794	10007	0.13%	0.013%
224	9.450	9.441	9.476	VV	589	8681	0.11%	0.011%
225	9.491	9.476	9.518	VV	517	6689	0.09%	0.009%
226	9.545	9.518	9.561	VV	457	6087	0.08%	0.008%
227	9.576	9.561	9.596	VV	545	7390	0.10%	0.010%
228	9.599	9.596	9.622	VV	339	3933	0.05%	0.005%
229	9.626	9.622	9.647	VV	252	2662	0.03%	0.003%
230	9.662	9.647	9.674	VV	479	5439	0.07%	0.007%
231	9.680	9.674	9.699	VV	501	4973	0.06%	0.007%
232	9.722	9.699	9.745	VV	12074	132663	1.72%	0.174%
233	9.763	9.745	9.804	VV	5352	67782	0.88%	0.089%
234	9.842	9.804	9.859	VV	866	14943	0.19%	0.020%
235	9.881	9.859	9.895	VV	511	9232	0.12%	0.012%
236	9.916	9.895	9.937	VV	1462	20164	0.26%	0.026%
237	9.942	9.937	9.955	VV	302	2433	0.03%	0.003%
238	9.974	9.955	9.992	VV	1022	13750	0.18%	0.018%
239	10.017	9.992	10.021	VV	2031	19495	0.25%	0.025%
240	10.046	10.021	10.075	VV	124712	1292476	16.76%	1.690%
241	10.088	10.075	10.103	VV	1806	22475	0.29%	0.029%
242	10.115	10.103	10.138	VV	1331	19062	0.25%	0.025%
243	10.150	10.138	10.162	VV	707	8135	0.11%	0.011%
244	10.185	10.162	10.200	VV	2721	38279	0.50%	0.050%
245	10.210	10.200	10.232	VV	2190	26882	0.35%	0.035%
246	10.261	10.232	10.275	VV	893	18296	0.24%	0.024%

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247	10.283	10.275	10.317	VV	789	10804	0.14%	0.014%
248	10.342	10.317	10.350	VV	383	4845	0.06%	0.006%
249	10.352	10.350	10.388	VV	349	4118	0.05%	0.005%
250	10.395	10.388	10.401	PV	91	473	0.01%	0.001%
251	10.424	10.401	10.440	VV	199	2707	0.04%	0.004%
252	10.477	10.440	10.492	VV	488	9134	0.12%	0.012%
253	10.520	10.492	10.543	VV	4169	49633	0.64%	0.065%
254	10.551	10.543	10.556	VV	511	3446	0.04%	0.005%
255	10.567	10.556	10.584	VV	587	7369	0.10%	0.010%
256	10.621	10.584	10.635	VV	1107	24533	0.32%	0.032%
257	10.650	10.635	10.678	VV	1491	23986	0.31%	0.031%
258	10.690	10.678	10.697	VV	697	6192	0.08%	0.008%
259	10.711	10.697	10.751	VV	790	19646	0.25%	0.026%
260	10.767	10.751	10.780	VV	1063	13164	0.17%	0.017%
261	10.789	10.780	10.798	VV	717	7119	0.09%	0.009%
262	10.818	10.798	10.838	VV	2773	35264	0.46%	0.046%
263	10.843	10.838	10.858	VV	638	6954	0.09%	0.009%
264	10.875	10.858	10.892	VV	1873	23236	0.30%	0.030%
265	10.940	10.892	10.957	VV	4252	71478	0.93%	0.093%
266	10.972	10.957	11.012	VV	2721	47376	0.61%	0.062%
267	11.022	11.012	11.030	VV	572	5454	0.07%	0.007%
268	11.041	11.030	11.055	VV	590	7809	0.10%	0.010%
269	11.070	11.055	11.082	VV	859	10461	0.14%	0.014%
270	11.095	11.082	11.122	VV	708	10558	0.14%	0.014%
271	11.171	11.122	11.185	VV	63575	700285	9.08%	0.916%
272	11.196	11.185	11.222	VV	32403	342923	4.45%	0.449%
273	11.245	11.222	11.312	VV	15188	213452	2.77%	0.279%
274	11.321	11.312	11.332	VV	335	3280	0.04%	0.004%
275	11.351	11.332	11.373	VV	1072	15502	0.20%	0.020%
276	11.376	11.373	11.388	VV	297	1827	0.02%	0.002%
277	11.420	11.388	11.439	VV	1048	22316	0.29%	0.029%
278	11.458	11.439	11.498	VV	5355	79811	1.03%	0.104%
279	11.524	11.498	11.539	VV	774	12247	0.16%	0.016%
280	11.564	11.539	11.579	VV	1204	19456	0.25%	0.025%
281	11.594	11.579	11.612	VV	1459	20702	0.27%	0.027%
282	11.642	11.612	11.670	VV	18210	225726	2.93%	0.295%
283	11.695	11.670	11.729	VV	13431	191132	2.48%	0.250%
284	11.751	11.729	11.799	VV	11464	150325	1.95%	0.197%
285	11.822	11.799	11.846	VV	2996	37209	0.48%	0.049%
286	11.879	11.846	11.911	PV	8412	127754	1.66%	0.167%
287	11.929	11.911	11.934	VV	715	7833	0.10%	0.010%
288	11.942	11.934	11.952	VV	732	7116	0.09%	0.009%
289	11.975	11.952	11.990	VV	6751	74549	0.97%	0.098%
290	12.006	11.990	12.026	VV	8465	96579	1.25%	0.126%
291	12.043	12.026	12.054	VV	1658	24007	0.31%	0.031%
292	12.090	12.054	12.109	VV	9399	141450	1.83%	0.185%
293	12.124	12.109	12.136	VV	3373	40187	0.52%	0.053%
294	12.154	12.136	12.179	VV	7065	89842	1.17%	0.118%
295	12.196	12.179	12.215	VV	971	14325	0.19%	0.019%
296	12.237	12.215	12.263	VV	1041	19134	0.25%	0.025%
297	12.328	12.263	12.351	VV	6662	152678	1.98%	0.200%
298	12.396	12.351	12.424	VV	26160	398429	5.17%	0.521%
299	12.451	12.424	12.497	VV	18027	282369	3.66%	0.369%

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300	12.506	12.497	12.517	VV	1473	16719	0.22%	0.022%
301	12.558	12.517	12.611	VV	207741	2859263	37.08%	3.740%
302	12.627	12.611	12.644	VV	2880	44166	0.57%	0.058%
303	12.659	12.644	12.663	VV	1764	19439	0.25%	0.025%
304	12.678	12.663	12.710	VV	2846	59562	0.77%	0.078%
305	12.718	12.710	12.747	VV	1838	31107	0.40%	0.041%
306	12.767	12.747	12.773	VV	2518	28203	0.37%	0.037%
307	12.791	12.773	12.808	VV	6128	86764	1.13%	0.113%
308	12.833	12.808	12.859	VV	8299	158192	2.05%	0.207%
309	12.877	12.859	12.897	VV	4670	72026	0.93%	0.094%
310	12.913	12.897	12.919	VV	2136	26621	0.35%	0.035%
311	12.943	12.919	12.966	VV	4619	94609	1.23%	0.124%
312	12.992	12.966	13.039	VV	105402	1268679	16.45%	1.659%
313	13.074	13.039	13.102	VV	4024	95890	1.24%	0.125%
314	13.129	13.102	13.141	VV	2089	38203	0.50%	0.050%
315	13.175	13.141	13.262	VV	7833	229471	2.98%	0.300%
316	13.291	13.262	13.319	VV	78052	892570	11.57%	1.167%
317	13.347	13.319	13.363	VV	10700	139897	1.81%	0.183%
318	13.379	13.363	13.417	VV	9902	144792	1.88%	0.189%
319	13.435	13.417	13.440	VV	1683	21360	0.28%	0.028%
320	13.465	13.440	13.475	VV	4821	69312	0.90%	0.091%
321	13.489	13.475	13.520	VV	4931	99900	1.30%	0.131%
322	13.563	13.520	13.595	VV	27387	458040	5.94%	0.599%
323	13.617	13.595	13.632	VV	23393	337539	4.38%	0.441%
324	13.640	13.632	13.664	VV	14444	192709	2.50%	0.252%
325	13.686	13.664	13.714	VV	6037	138618	1.80%	0.181%
326	13.720	13.714	13.729	VV	3020	26339	0.34%	0.034%
327	13.781	13.729	13.837	VV	85177	1276200	16.55%	1.669%
328	13.879	13.837	13.923	VV	13472	315660	4.09%	0.413%
329	13.950	13.923	13.964	VV	3536	73854	0.96%	0.097%
330	13.989	13.964	14.010	VV	8829	155094	2.01%	0.203%
331	14.027	14.010	14.052	VV	7933	135046	1.75%	0.177%
332	14.072	14.052	14.081	VV	5724	83972	1.09%	0.110%
333	14.095	14.081	14.113	VV	6627	116034	1.50%	0.152%
334	14.142	14.113	14.147	VV	7805	130904	1.70%	0.171%
335	14.157	14.147	14.180	VV	8538	132009	1.71%	0.173%
336	14.198	14.180	14.236	VV	6680	150728	1.95%	0.197%
337	14.272	14.236	14.302	VV	7156	191808	2.49%	0.251%
338	14.310	14.302	14.327	VV	3914	57852	0.75%	0.076%
339	14.359	14.327	14.449	VV	4844	283909	3.68%	0.371%
340	14.468	14.449	14.475	VV	3221	47151	0.61%	0.062%
341	14.530	14.475	14.552	VV	7424	233694	3.03%	0.306%
342	14.558	14.552	14.562	VV	6441	36729	0.48%	0.048%
343	14.570	14.562	14.593	VV	6613	111612	1.45%	0.146%
344	14.612	14.593	14.643	VV	9974	196489	2.55%	0.257%
345	14.653	14.643	14.674	VV	4282	74319	0.96%	0.097%
346	14.705	14.674	14.727	VV	10920	218476	2.83%	0.286%
347	14.736	14.727	14.750	VV	5547	72551	0.94%	0.095%
348	14.796	14.750	14.833	VV	10453	337247	4.37%	0.441%
349	14.859	14.833	14.882	VV	13555	228177	2.96%	0.298%
350	14.917	14.882	14.946	VV	16184	312877	4.06%	0.409%
351	15.042	14.946	15.080	VV	108885	1758658	22.80%	2.300%

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352	15.121	15.080	15.141	VV	5723	140708	1.82%	0.184%
353	15.170	15.141	15.190	VV	48310	610442	7.92%	0.798%
354	15.211	15.190	15.233	VV	40646	521618	6.76%	0.682%
355	15.244	15.233	15.270	VV	7155	110857	1.44%	0.145%
356	15.287	15.270	15.305	VV	5730	89137	1.16%	0.117%
357	15.332	15.305	15.359	VV	11174	204808	2.66%	0.268%
358	15.375	15.359	15.391	VV	2919	48387	0.63%	0.063%
359	15.409	15.391	15.435	VV	4471	74934	0.97%	0.098%
360	15.467	15.435	15.495	VV	6049	132113	1.71%	0.173%
361	15.512	15.495	15.564	VV	4359	110352	1.43%	0.144%
362	15.622	15.564	15.705	VV	58018	1076513	13.96%	1.408%
363	15.721	15.705	15.738	VV	2788	44915	0.58%	0.059%
364	15.765	15.738	15.797	VV	12275	236015	3.06%	0.309%
365	15.841	15.797	15.866	VV	14104	291648	3.78%	0.381%
366	15.885	15.866	15.910	VV	4648	74631	0.97%	0.098%
367	15.925	15.910	15.947	VV	2394	38195	0.50%	0.050%
368	15.977	15.947	15.998	VV	9044	163479	2.12%	0.214%
369	16.004	15.998	16.041	VV	5366	83659	1.08%	0.109%
370	16.083	16.041	16.117	VV	3500	86020	1.12%	0.113%
371	16.144	16.117	16.154	VV	2896	42482	0.55%	0.056%
372	16.163	16.154	16.182	VV	2986	46162	0.60%	0.060%
373	16.195	16.182	16.215	VV	3352	47032	0.61%	0.062%
374	16.232	16.215	16.242	VV	2042	26724	0.35%	0.035%
375	16.266	16.242	16.303	VV	9246	138951	1.80%	0.182%
376	16.328	16.303	16.352	VV	5355	73139	0.95%	0.096%
377	16.370	16.352	16.399	VV	1183	20608	0.27%	0.027%
378	16.404	16.399	16.416	VV	176	798	0.01%	0.001%
379	16.452	16.416	16.466	PV	3046	47230	0.61%	0.062%
380	16.478	16.466	16.497	VV	2593	37249	0.48%	0.049%
381	16.511	16.497	16.533	VV	2719	37635	0.49%	0.049%
382	16.564	16.533	16.600	VV	2478	63936	0.83%	0.084%
383	16.637	16.600	16.697	VV	36295	750343	9.73%	0.981%
384	16.729	16.697	16.743	VV	48227	711257	9.22%	0.930%
385	16.753	16.743	16.788	VV	34245	449105	5.82%	0.587%
386	16.829	16.788	16.845	VV	11052	186269	2.42%	0.244%
387	16.858	16.845	16.884	VV	9027	134186	1.74%	0.176%
388	16.897	16.884	16.934	VV	3067	70623	0.92%	0.092%
389	16.959	16.934	16.995	VV	5055	121433	1.57%	0.159%
390	17.048	16.995	17.077	VV	26075	485796	6.30%	0.635%
391	17.106	17.077	17.154	VV	36896	564178	7.32%	0.738%
392	17.211	17.154	17.241	VV	18249	434201	5.63%	0.568%
393	17.268	17.241	17.280	VV	15406	231209	3.00%	0.302%
394	17.293	17.280	17.320	VV	16654	254277	3.30%	0.333%
395	17.350	17.320	17.385	VV	4395	134467	1.74%	0.176%
396	17.416	17.385	17.433	VV	3277	76879	1.00%	0.101%
397	17.471	17.433	17.503	VV	6773	203700	2.64%	0.266%
398	17.511	17.503	17.529	VV	3961	57657	0.75%	0.075%
399	17.581	17.529	17.623	VV	32972	793738	10.29%	1.038%
400	17.635	17.623	17.641	VV	11023	114924	1.49%	0.150%
401	17.669	17.641	17.727	VV	51569	929410	12.05%	1.216%
402	17.757	17.727	17.821	VV	9419	354682	4.60%	0.464%
403	17.838	17.821	17.857	VV	4935	89074	1.16%	0.117%
404	17.880	17.857	17.919	VV	5487	151434	1.96%	0.198%

					rteres			
405	17.950	17.919	17.973	VV	4124	117989	1.53%	0.154%
406	17.977	17.973	17.982	VV	3274	17144	0.22%	0.022%
407	18.078	17.982	18.089	VV	13069	469130	6.08%	0.614%
408	18.104	18.089	18.135	VV	16699	299348	3.88%	0.392%
409	18.195	18.135	18.222	VV	30093	659022	8.55%	0.862%
410	18.252	18.222	18.269	VV	10445	247853	3.21%	0.324%
411	18.274	18.269	18.300	VV	8812	149803	1.94%	0.196%
412	18.332	18.300	18.359	VV	13718	330842	4.29%	0.433%
413	18.387	18.359	18.404	VV	11669	234686	3.04%	0.307%
414	18.426	18.404	18.437	VV	10262	182891	2.37%	0.239%
415	18.464	18.437	18.503	VV	73108	1616803	20.97%	2.115%
416	18.529	18.503	18.577	VV	56008	1162093	15.07%	1.520%
417	18.620	18.577	18.698	VV	21054	935768	12.13%	1.224%
418	18.729	18.698	18.755	VV	26736	475565	6.17%	0.622%
419	18.814	18.755	18.837	VV	11217	438030	5.68%	0.573%
420	18.859	18.837	18.879	VV	12846	261627	3.39%	0.342%
421	18.932	18.879	18.947	VV	19511	593839	7.70%	0.777%
422	18.960	18.947	18.999	VV	20214	404930	5.25%	0.530%
423	19.040	18.999	19.077	VV	33137	846198	10.97%	1.107%
424	19.089	19.077	19.135	VV	13733	379258	4.92%	0.496%
425	19.158	19.135	19.182	VV	10598	267713	3.47%	0.350%
426	19.217	19.182	19.235	VV	15113	379504	4.92%	0.496%
427	19.246	19.235	19.251	VV	13333	124184	1.61%	0.162%
428	19.257	19.251	19.264	VV	13367	100669	1.31%	0.132%
429	19.292	19.264	19.321	VV	70738	1436047	18.62%	1.878%
430	19.341	19.321	19.386	VV	41700	1142017	14.81%	1.494%
431	19.414	19.386	19.445	VV	20446	640073	8.30%	0.837%
432	19.468	19.445	19.502	VV	39681	801377	10.39%	1.048%
433	19.573	19.502	19.615	VV	196380	3631694	47.09%	4.750%
434	19.625	19.615	19.673	VV	21347	525001	6.81%	0.687%
435	19.722	19.673	19.733	VV	13502	437123	5.67%	0.572%
436	19.751	19.733	19.765	VV	16206	284767	3.69%	0.372%
437	19.784	19.765	19.803	VV	22975	412445	5.35%	0.539%
438	19.831	19.803	19.858	VV	21677	558557	7.24%	0.731%
439	19.887	19.858	19.914	VV	24097	560940	7.27%	0.734%
440	19.954	19.914	19.979	VV	19646	584383	7.58%	0.764%
441	20.005	19.979	20.035	VV	19595	543491	7.05%	0.711%
442	20.071	20.035	20.107	VV	25927	805486	10.44%	1.054%
443	20.126	20.107	20.143	VV	22596	435651	5.65%	0.570%
444	20.160	20.143	20.207	VV	22338	608038	7.88%	0.795%
445	20.268	20.207	20.299	VV	27310	973249	12.62%	1.273%
446	20.334	20.299	20.369	VV	19005	688782	8.93%	0.901%
447	20.397	20.369	20.418	VV	15930	425070	5.51%	0.556%
448	20.448	20.418	20.519	VV	26663	987620	12.81%	1.292%
449	20.528	20.519	20.547	VV	11533	188301	2.44%	0.246%
450	20.573	20.547	20.595	VV	14395	375430	4.87%	0.491%
451	20.625	20.595	20.651	VV	22394	547708	7.10%	0.716%
452	20.683	20.651	20.710	VV	38468	851546	11.04%	1.114%
453	20.727	20.710	20.744	VV	23357	442274	5.74%	0.578%
454	20.780	20.744	20.915	VV	404739	7711776	100.00%	10.086%
455	20.921	20.915	20.985	VV	11497	432872	5.61%	0.566%
456	20.995	20.985	21.051	VV	9421	327227	4.24%	0.428%

						rteres		
457	21.097	21.051	21.160	VV	9077	512957	6.65%	0.671%
458	21.208	21.160	21.247	VV	11226	427761	5.55%	0.559%
459	21.268	21.247	21.294	VV	6958	180865	2.35%	0.237%
460	21.333	21.294	21.372	VV	7487	312468	4.05%	0.409%
461	21.380	21.372	21.395	VV	6267	82644	1.07%	0.108%
462	21.401	21.395	21.466	VV	5891	233842	3.03%	0.306%
463	21.506	21.466	21.552	VV	20719	580045	7.52%	0.759%
464	21.575	21.552	21.607	VV	5810	169997	2.20%	0.222%
465	21.650	21.607	21.694	VV	9432	357040	4.63%	0.467%
466	21.697	21.694	21.725	VV	5638	97001	1.26%	0.127%
467	21.758	21.725	21.850	VV	10048	428682	5.56%	0.561%
468	21.888	21.850	21.922	VV	4334	154407	2.00%	0.202%
469	21.956	21.922	21.992	VV	4449	137172	1.78%	0.179%
470	22.039	21.992	22.074	VV	3467	119130	1.54%	0.156%
471	22.087	22.074	22.100	VV	1919	28587	0.37%	0.037%
472	22.145	22.100	22.237	VV	10345	328821	4.26%	0.430%
473	22.243	22.237	22.285	VV	764	11214	0.15%	0.015%
					Sum of corrected areas:		76457163	

FG111324.M Mon Nov 18 02:08:51 2024



CALIBRATION SUMMARY

TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: SCIA01
 ProjectID: 124 Main St. Bloomingdale
 Lab Code: CHEM Case No.: P4810 SAS No.: P4810 SDG No.: P4810

Calibration Sequence : FG111324		Test : TPH GC	
Concentration (PPM)	Area Count	Reference Factor	File ID
850	90369281	106317	FG014760.D
340	37189473	109381	FG014761.D
170	21164070	124495	FG014762.D
85	9606047	113012	FG014763.D
1700	168427130	99075	FG014764.D
AVG RF : 110456		% RSD : 8.486	AVG RT : 15.0442

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: SCIA01
ProjectID: 124 Main St. Bloomingdale
Lab Code: CHEM Case No.: P4810 SAS No.: P4810 SDG No.: P4810
DataFile: FG014791.D Analyst Name: YP\AJ Analyst Date: 11-15-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
850	103342895	121580	110456	10.071

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
 Data File : FG014791.D
 Signal(s) : FID1A.ch
 Acq On : 15 Nov 2024 10:24
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Nov 18 01:07:58 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Quant Title :
 QLast Update : Wed Nov 13 13:49:18 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.045	5652008	50.388 ug/ml
Target Compounds			
1) N-OCTANE	2.054	6405323	50.914 ug/ml
2) N-DECANE	4.569	6678678	52.889 ug/ml
3) N-DODECANE	6.741	6770123	52.127 ug/ml
4) N-TETRADECANE	8.574	6755947	53.608 ug/ml
5) N-HEXADECANE	10.185	6699001	52.525 ug/ml
6) N-OCTADECANE	11.631	6735218	51.435 ug/ml
7) N-EICOSANE	12.943	6715120	52.738 ug/ml
8) N-DOCOSANE	14.143	6410818	51.323 ug/ml
10) N-TETRACOSANE	15.249	6300458	51.003 ug/ml
11) N-HEXACOSANE	16.271	6160754	51.209 ug/ml
12) N-OCTACOSANE	17.221	6018084	51.188 ug/ml
13) N-TRIACONTANE	18.109	6000322	52.039 ug/ml
14) N-DOTRIACONTANE	18.942	5873999	53.454 ug/ml
15) N-TETRATRIACONTANE	19.727	5643247	61.075 ug/ml
16) N-HEXATRIACONTANE	20.466	5284413	74.592 ug/ml
17) N-OCTATRIACONTANE	21.216	4816774	82.615 ug/ml
18) N-TETRACONTANE	22.150	4074616	80.066 ug/ml

(f)=RT Delta > 1/2 Window

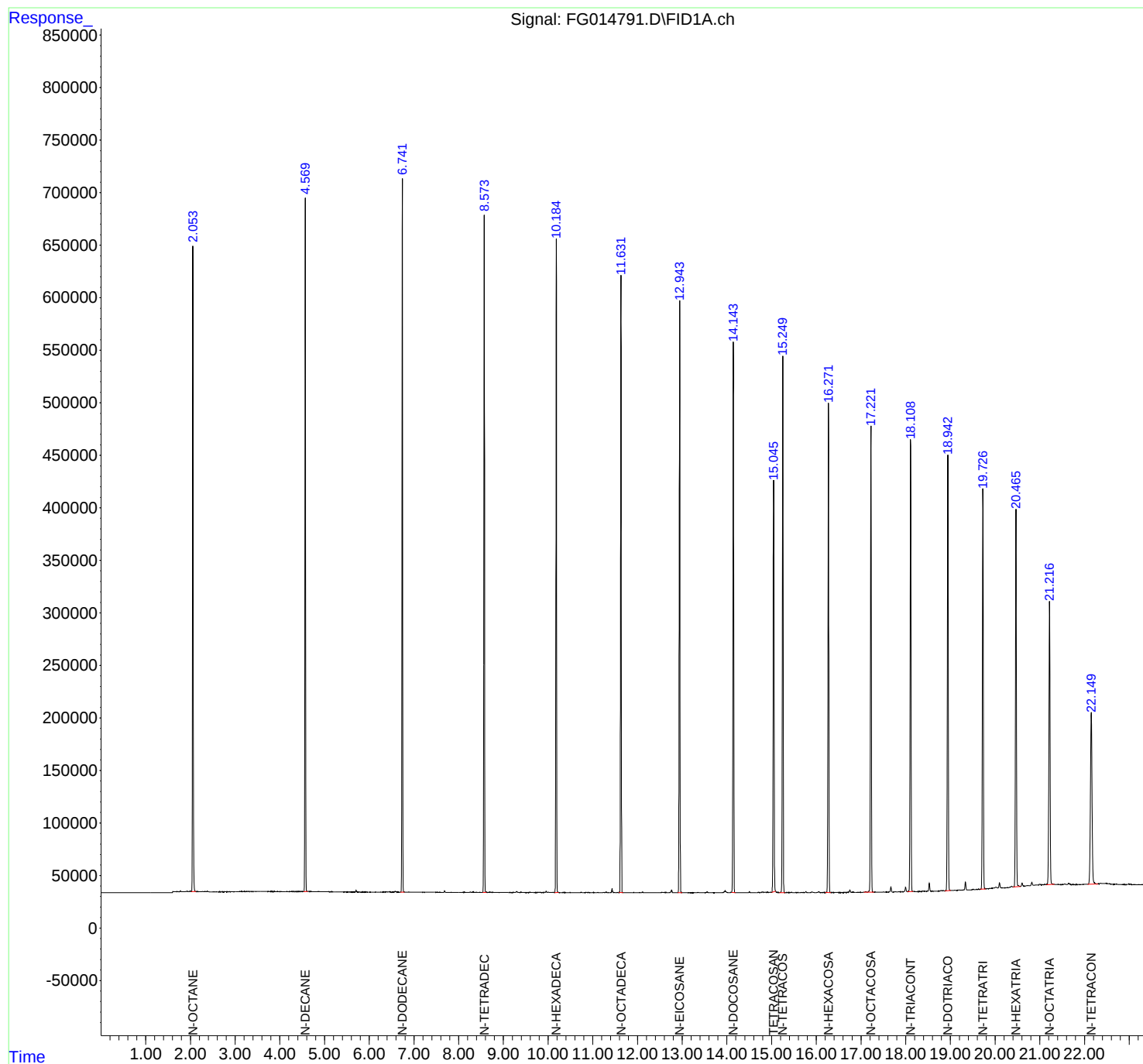
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014791.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 10:24
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Nov 18 01:07:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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



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Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
 Data File : FG014791.D
 Signal(s) : FID1A.ch
 Acq On : 15 Nov 2024 10:24
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.054	2.016	2.123	BB	613966	6405323	94.61%	5.877%
2	4.569	4.528	4.627	BB	660777	6678678	98.65%	6.128%
3	6.741	6.694	6.788	BB	678260	6770123	100.00%	6.211%
4	8.574	8.539	8.623	BB	643663	6755947	99.79%	6.198%
5	10.185	10.144	10.236	BB	621391	6699001	98.95%	6.146%
6	11.631	11.593	11.682	BB	587094	6735218	99.48%	6.179%
7	12.943	12.903	13.000	BB	562824	6715120	99.19%	6.161%
8	14.143	14.108	14.189	BB	524490	6410818	94.69%	5.882%
9	15.045	15.001	15.090	BBA	392274	5652008	83.48%	5.186%
10	15.249	15.173	15.301	BB	510143	6300458	93.06%	5.781%
11	16.271	16.208	16.323	BB	465759	6160754	91.00%	5.652%
12	17.221	17.064	17.288	BB	444223	6018084	88.89%	5.521%
13	18.109	18.041	18.164	BB	428935	6000322	88.63%	5.505%
14	18.942	18.878	19.011	BB	414246	5873999	86.76%	5.389%
15	19.727	19.662	19.790	BB	381295	5643247	83.36%	5.178%
16	20.466	20.400	20.565	BB	359263	5284413	78.05%	4.848%
17	21.216	21.143	21.326	BB	269473	4816774	71.15%	4.419%
18	22.150	22.066	22.300	BBA	163369	4074616	60.19%	3.738%
Sum of corrected areas:						108994904		

FG111324.M Mon Nov 18 01:56:49 2024

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: SCIA01
ProjectID: 124 Main St. Bloomingtondale
Lab Code: CHEM Case No.: P4810 SAS No.: P4810 SDG No.: P4810
DataFile: FG014799.D Analyst Name: YP\AJ Analyst Date: 11-15-2024

Conc. (PPM)	Area Count	RF	Average RF	%D
850	96219103	113199	110456	2.483

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
 Data File : FG014799.D
 Signal(s) : FID1A.ch
 Acq On : 15 Nov 2024 14:14
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM TRPH STD

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

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.045	5128889	45.724 ug/ml
Target Compounds			
1) N-OCTANE	2.055	6038373	47.998 ug/ml
2) N-DECANE	4.570	6218912	49.248 ug/ml
3) N-DODECANE	6.742	6228385	47.956 ug/ml
4) N-TETRADECANE	8.575	6167874	48.942 ug/ml
5) N-HEXADECANE	10.185	6096397	47.800 ug/ml
6) N-OCTADECANE	11.631	6128990	46.805 ug/ml
7) N-EICOSANE	12.944	6101293	47.917 ug/ml
8) N-DOCOSANE	14.145	5835614	46.718 ug/ml
10) N-TETRACOSANE	15.250	5742512	46.487 ug/ml
11) N-HEXACOSANE	16.272	5625479	46.760 ug/ml
12) N-OCTACOSANE	17.222	5513817	46.899 ug/ml
13) N-TRIACONTANE	18.111	5546424	48.102 ug/ml
14) N-DOTRIACONTANE	18.944	5435240	49.461 ug/ml
15) N-TETRATRIACONTANE	19.726	5253128	56.853 ug/ml
16) N-HEXATRIACONTANE	20.468	4956959	69.970 ug/ml
17) N-OCTATRIACONTANE	21.217	4716911	80.902 ug/ml
18) N-TETRACONTANE	22.155	4612795	90.641 ug/ml

(f)=RT Delta > 1/2 Window

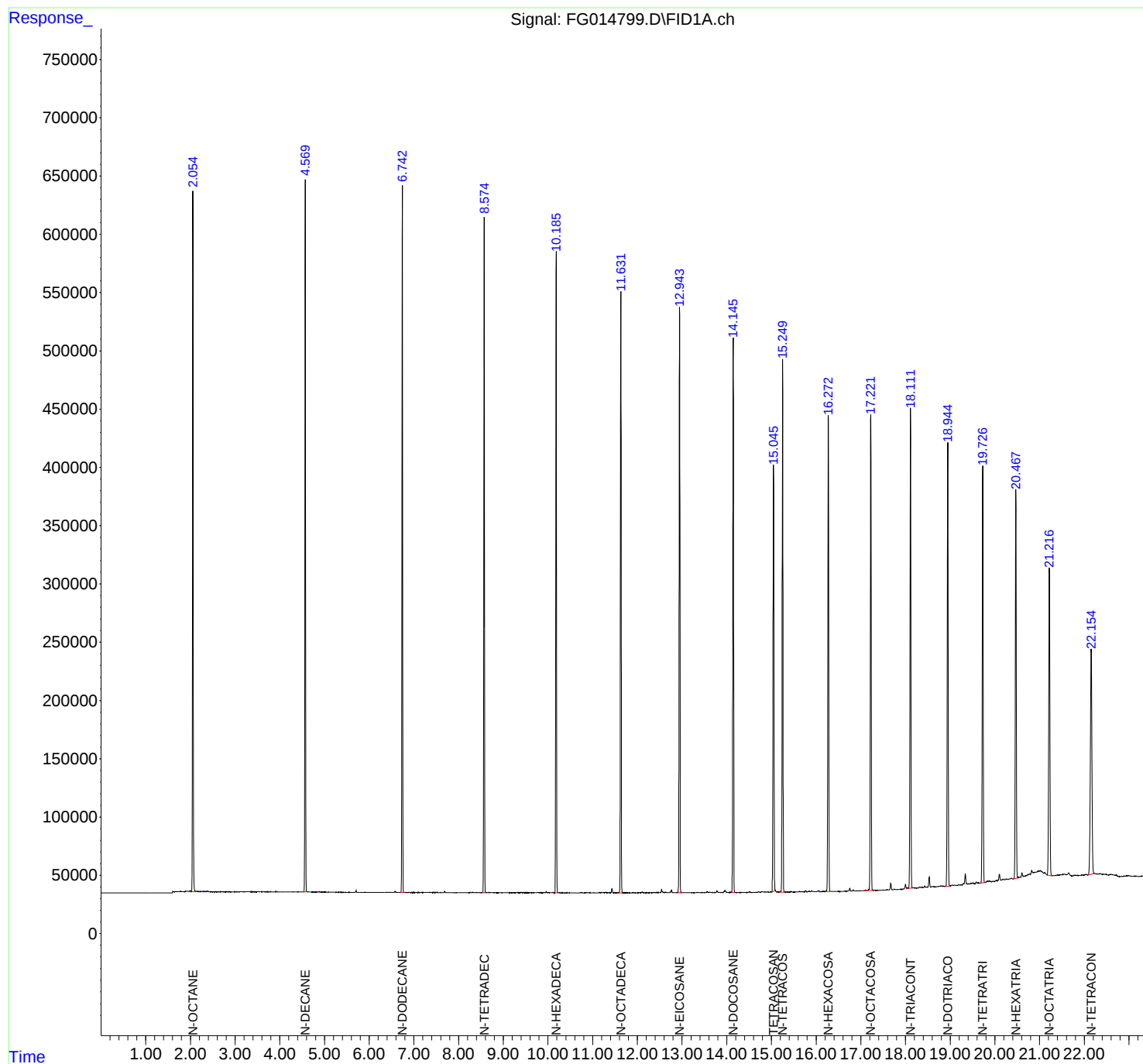
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014799.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 14:14
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM TRPH STD

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

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014799.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 14:14
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.055	2.019	2.130	BB	600226	6038373	96.95%	5.958%
2	4.570	4.527	4.618	BB	611146	6218912	99.85%	6.136%
3	6.742	6.699	6.787	BB	606726	6228385	100.00%	6.146%
4	8.575	8.527	8.609	BB	579622	6167874	99.03%	6.086%
5	10.185	10.140	10.234	BB	549390	6096397	97.88%	6.015%
6	11.631	11.539	11.678	BB	515595	6128990	98.40%	6.047%
7	12.944	12.893	12.992	BB	501510	6101293	97.96%	6.020%
8	14.145	14.106	14.192	VB	475797	5835614	93.69%	5.758%
9	15.045	15.000	15.090	BBA	366289	5128889	82.35%	5.061%
10	15.250	15.171	15.309	BB	456474	5742512	92.20%	5.666%
11	16.272	16.200	16.318	BB	407976	5625479	90.32%	5.551%
12	17.222	17.065	17.283	BB	408183	5513817	88.53%	5.440%
13	18.111	18.023	18.148	VV	412125	5546424	89.05%	5.473%
14	18.944	18.878	18.995	BB	380340	5435240	87.27%	5.363%
15	19.726	19.653	19.771	BV	357920	5253128	84.34%	5.183%
16	20.468	20.401	20.509	BV	333550	4956959	79.59%	4.891%
17	21.217	21.168	21.284	PV	263839	4716911	75.73%	4.654%
18	22.155	22.075	22.216	PV	193246	4612795	74.06%	4.551%
Sum of corrected areas:						101347990		

FG111324.M Mon Nov 18 01:59:44 2024

Analytical Sequence

Client: Sciacca General Contractors, LLC

SDG No.: P4810

Project: 124 Main St. Bloomingtondale

Instrument ID: FID_G

GC Column: RXI-1MS **ID:** 0.18 (mm)

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

MEAN SUROGATE RT FROM INITIAL CALIBRATION 15.0442					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	15 Nov 2024 09:56	FG014790.D	15.041	
50 PPM TRPH STD	50 PPM TRPH STD	15 Nov 2024 10:24	FG014791.D	15.045	
PB164989BL	PB164989BL	15 Nov 2024 11:24	FG014793.D	15.041	
PB164989BS	PB164989BS	15 Nov 2024 11:53	FG014794.D	15.041	
WASTE	P4810-01	15 Nov 2024 12:21	FG014795.D	15.042	
WASTEMS	P4810-01MS	15 Nov 2024 12:49	FG014796.D	15.042	
WASTEMSD	P4810-01MSD	15 Nov 2024 13:18	FG014797.D	15.043	
PIBLK02	LBLK02	15 Nov 2024 13:46	FG014798.D	15.043	
50 PPM TRPH STD	50 PPM TRPH STD	15 Nov 2024 14:14	FG014799.D	15.045	



QC SAMPLE DATA

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:		
Project:	124 Main St. Bloomingdale		Date Received:		
Client Sample ID:	PB164989BL		SDG No.:	P4810	
Lab Sample ID:	PB164989BL		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
FG014793.D	1	11/15/24 08:20	11/15/24 11:24	PB164989

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	15.8		37 - 130	79%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014793.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 11:24
Operator : YP\AJ
Sample : PB164989BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164989BL

Integration File: autoint1.e
Quant Time: Nov 18 01:08:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.041	1777058	15.843 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

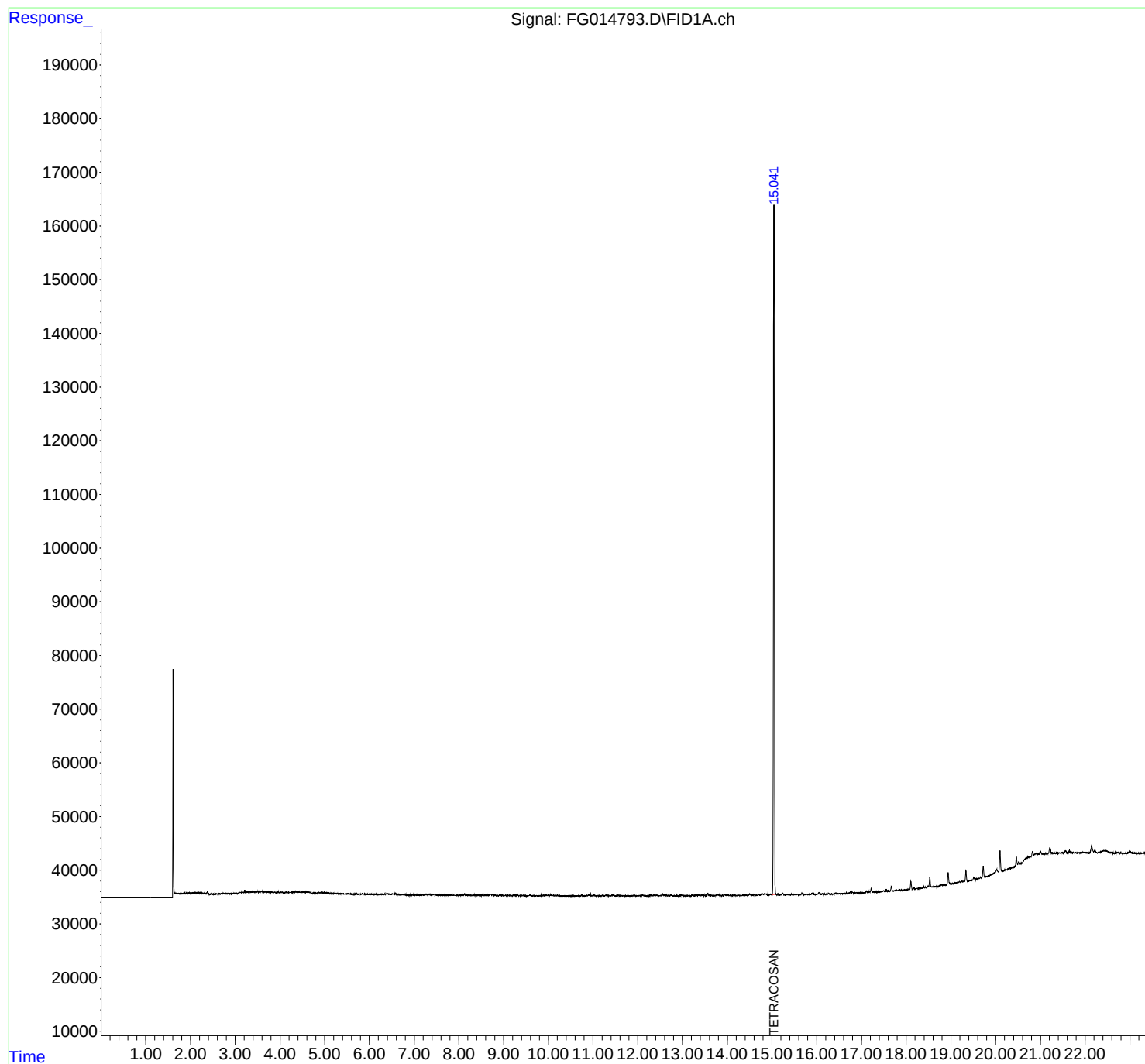
(m)=manual int.

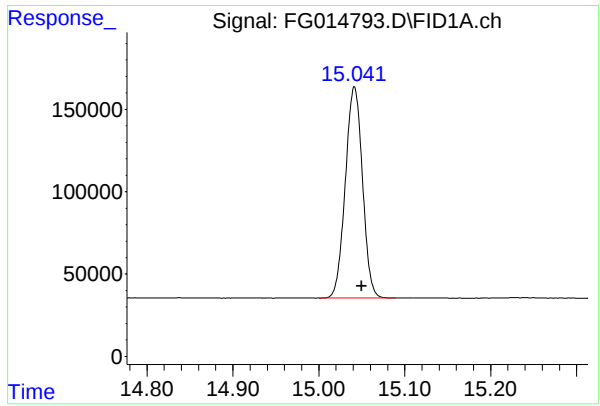
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014793.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 11:24
Operator : YP\AJ
Sample : PB164989BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164989BL

Integration File: autoint1.e
Quant Time: Nov 18 01:08:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.041 min
Delta R.T.: -0.008 min
Response: 1777058
Conc: 15.84 ug/ml

Instrument :
FID_G
ClientSampleId :
PB164989BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014793.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 11:24
Sample : PB164989BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.041	15.000	15.090	BBA	128377	1777058	100.00%	100.000%
Sum of corrected areas:						1777058		

FG111324.M Mon Nov 18 01:57:26 2024

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	11/15/24
Project:	124 Main St. Bloomingdale	Date Received:	11/15/24
Client Sample ID:	PIBLK-FG014790.D	SDG No.:	P4810
Lab Sample ID:	I.BLK-FG014790.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
FG014790.D	1		11/15/24	FG111524

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	18.1		29 - 130	91%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014790.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 09:56
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 18 01:07:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.041	2035501	18.147 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

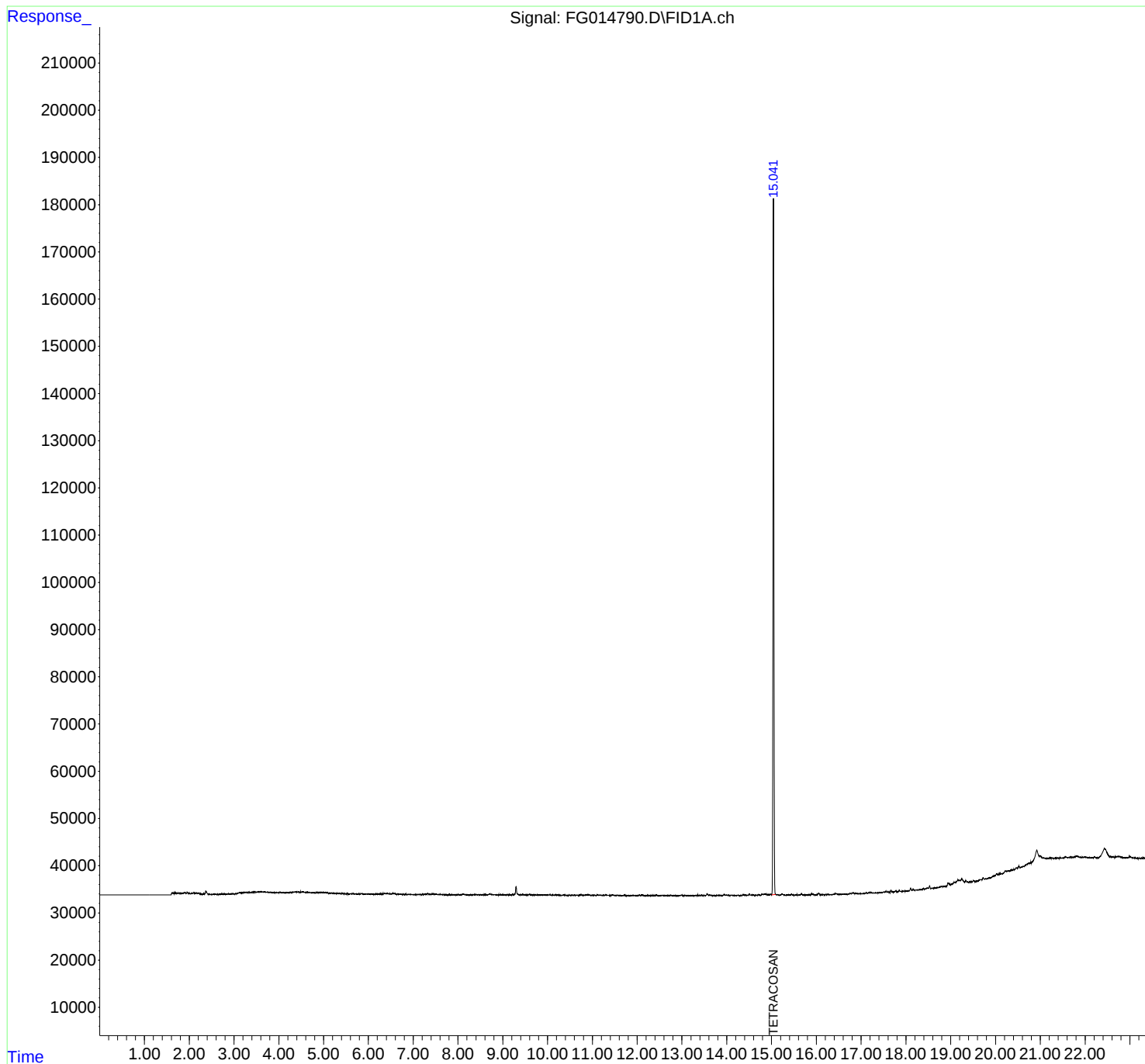
(m)=manual int.

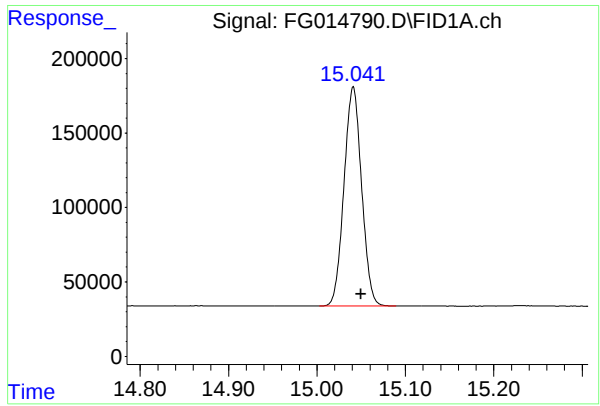
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014790.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 09:56
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 18 01:07:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.041 min
Delta R.T.: -0.009 min
Response: 2035501
Conc: 18.15 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014790.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 09:56
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.041	15.003	15.090	BBA	147375	2035501	100.00%	100.000%
Sum of corrected areas:						2035501		

FG111324.M Mon Nov 18 01:56:18 2024

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	11/15/24
Project:	124 Main St. Bloomingdale	Date Received:	11/15/24
Client Sample ID:	PIBLK-FG014798.D	SDG No.:	P4810
Lab Sample ID:	I.BLK-FG014798.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
FG014798.D	1		11/15/24	FG111524

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	17.8		29 - 130	89%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014798.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 13:46
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 18 01:09:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.043	1997973	17.812 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

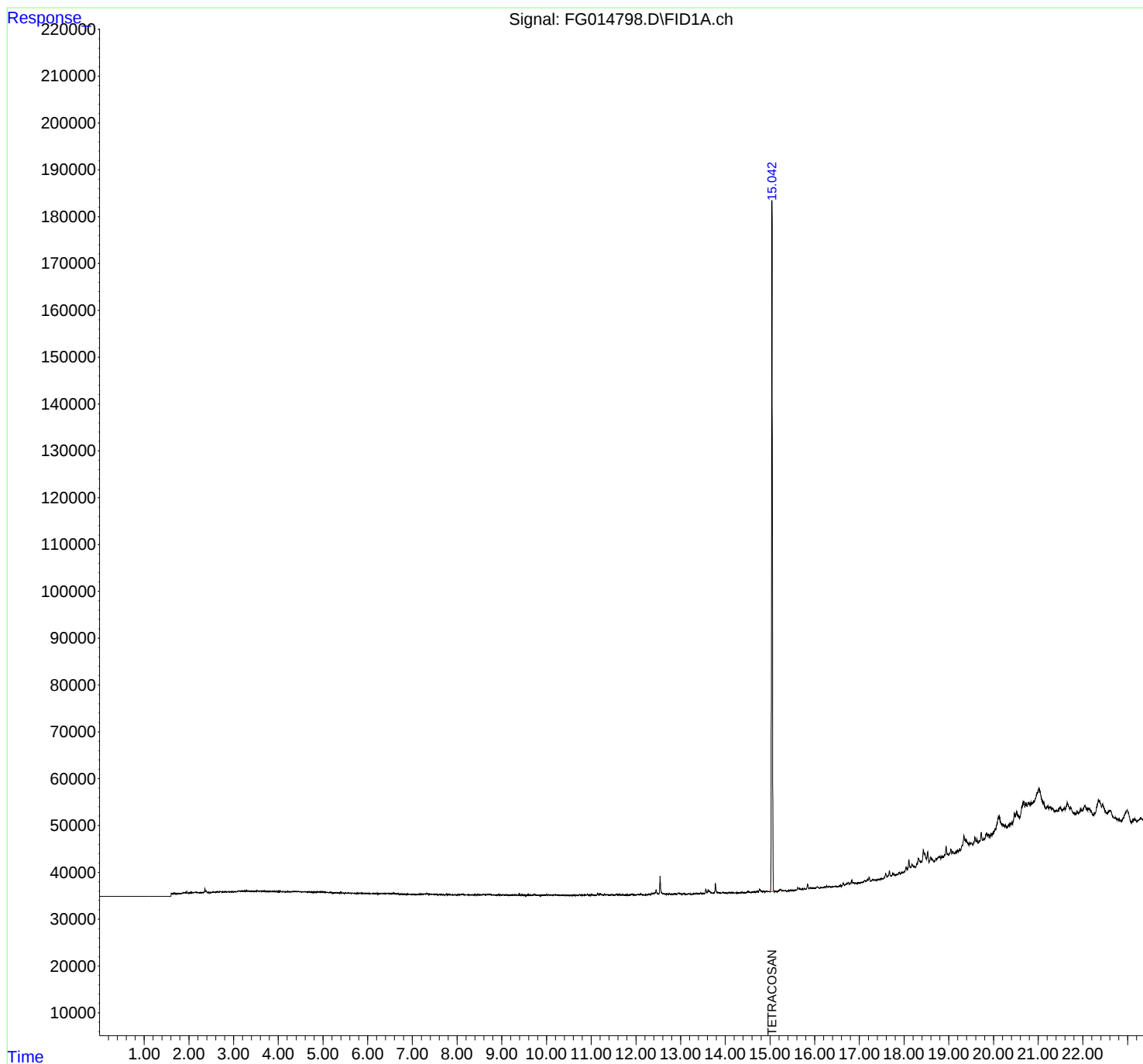
(m)=manual int.

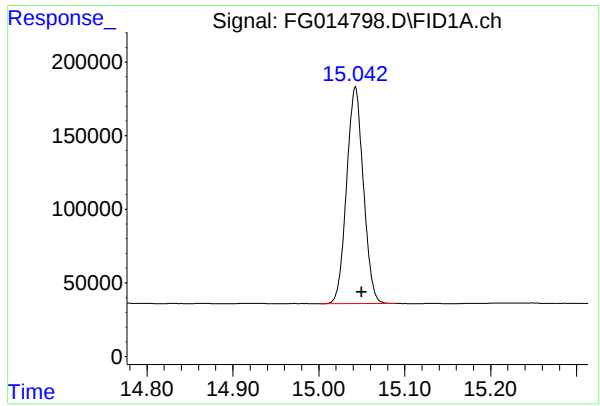
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014798.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 13:46
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Nov 18 01:09:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.043 min
Delta R.T.: -0.007 min
Response: 1997973
Conc: 17.81 ug/ml

Instrument :
FID_G
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014798.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 13:46
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.043	15.000	15.090	BBA	147466	1997973	100.00%	100.000%
Sum of corrected areas:						1997973		

FG111324.M Mon Nov 18 01:58:00 2024

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	
Project:	124 Main St. Bloomingdale	Date Received:	
Client Sample ID:	PB164989BS	SDG No.:	P4810
Lab Sample ID:	PB164989BS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100
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
FG014794.D	1	11/15/24 08:20	11/15/24 11:53	PB164989

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	12400		318	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	17.0		37 - 130	85%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
 Data File : FG014794.D
 Signal(s) : FID1A.ch
 Acq On : 15 Nov 2024 11:53
 Operator : YP\AJ
 Sample : PB164989BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 PB164989BS

Integration File: autoint1.e
 Quant Time: Nov 18 01:08:30 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Quant Title :
 QLast Update : Wed Nov 13 13:49:18 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.041	1903971	16.974 ug/ml
Target Compounds			
1) N-OCTANE	2.057	2335416	18.564 ug/ml
2) N-DECANE	4.569	2938175	23.268 ug/ml
3) N-DODECANE	6.740	3082264	23.732 ug/ml
4) N-TETRADECANE	8.571	2989414	23.721 ug/ml
5) N-HEXADECANE	10.182	3053122	23.938 ug/ml
6) N-OCTADECANE	11.628	3146969	24.032 ug/ml
7) N-EICOSANE	12.940	3069293	24.105 ug/ml
8) N-DOCOSANE	14.141	3016020	24.145 ug/ml
10) N-TETRACOSANE	15.246	2986951	24.180 ug/ml
11) N-HEXACOSANE	16.269	2906968	24.163 ug/ml
12) N-OCTACOSANE	17.218	2837648	24.136 ug/ml
13) N-TRIACONTANE	18.107	2682374	23.263 ug/ml
14) N-DOTRIACONTANE	18.940	2174885	19.792 ug/ml
15) N-TETRATRIACONTANE	19.723	1495713	16.188 ug/ml
16) N-HEXATRIACONTANE	20.462	1006091	14.201 ug/ml
17) N-OCTATRIACONTANE	21.211	768695	13.184 ug/ml
18) N-TETRACONTANE	22.144	607498	11.937 ug/ml

(f)=RT Delta > 1/2 Window

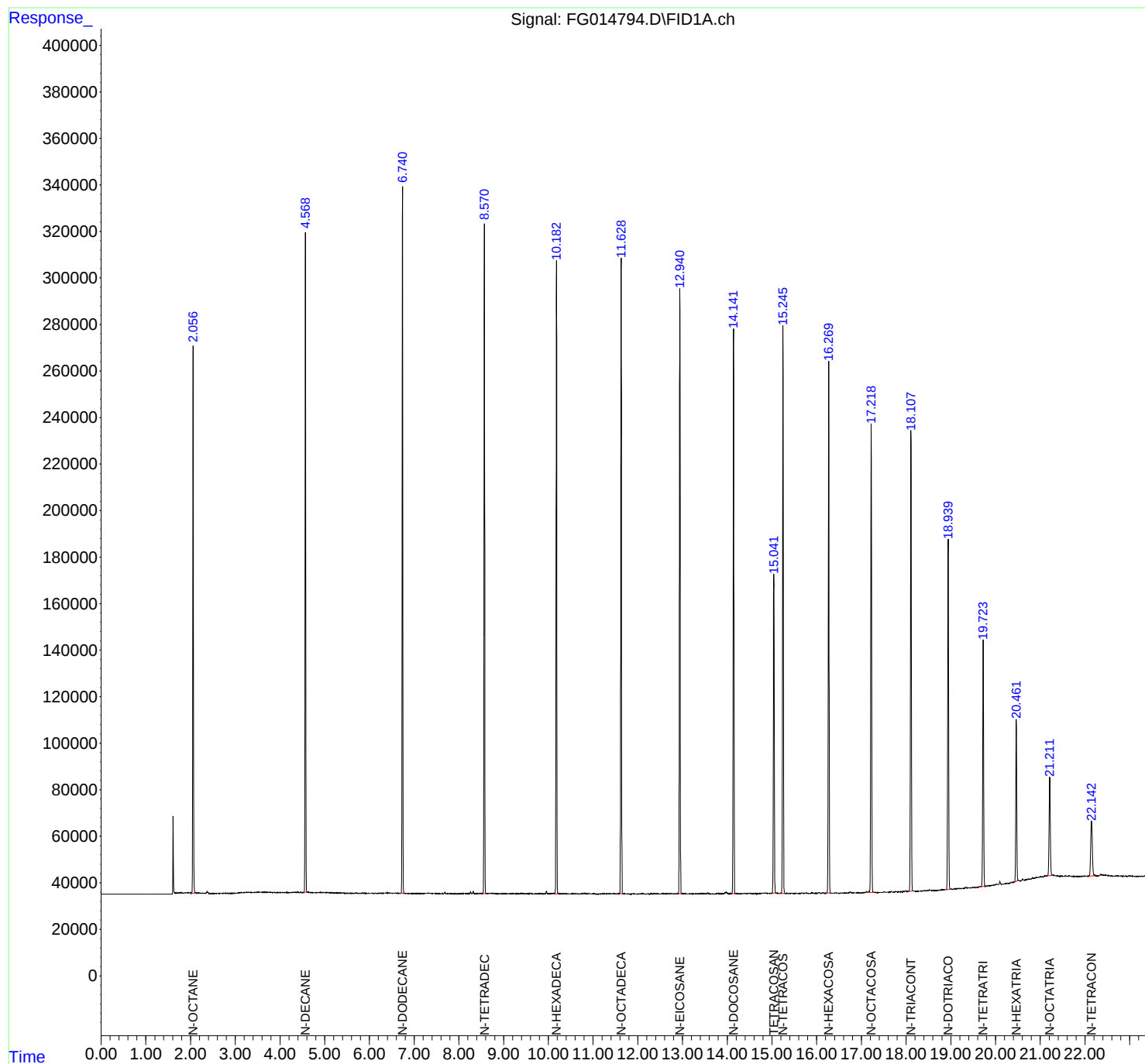
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014794.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 11:53
Operator : YP\AJ
Sample : PB164989BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB164989BS

Integration File: autoint1.e
Quant Time: Nov 18 01:08:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
 Data File : FG014794.D
 Signal(s) : FID1A.ch
 Acq On : 15 Nov 2024 11:53
 Sample : PB164989BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.057	2.018	2.122	BB	235066	2335416	74.21%	5.431%
2	4.569	4.525	4.618	BB	283538	2938175	93.37%	6.833%
3	6.740	6.701	6.783	BB	303924	3082264	97.94%	7.168%
4	8.571	8.531	8.614	BB	288072	2989414	94.99%	6.952%
5	10.182	10.136	10.233	BB	271477	3053122	97.02%	7.100%
6	11.628	11.590	11.665	BB	273018	3146969	100.00%	7.318%
7	12.940	12.894	12.988	BB	260311	3069293	97.53%	7.138%
8	14.141	14.090	14.194	BB	242746	3016020	95.84%	7.014%
9	15.041	15.000	15.090	BBA	136806	1903971	60.50%	4.428%
10	15.246	15.189	15.300	BB	244370	2986951	94.92%	6.946%
11	16.269	16.214	16.313	BB	228812	2906968	92.37%	6.760%
12	17.218	17.140	17.278	BB	201400	2837648	90.17%	6.599%
13	18.107	18.048	18.147	BB	198081	2682374	85.24%	6.238%
14	18.940	18.887	19.008	BB	150677	2174885	69.11%	5.058%
15	19.723	19.630	19.770	BB	106047	1495713	47.53%	3.478%
16	20.462	20.407	20.502	BB	69635	1006091	31.97%	2.340%
17	21.211	21.147	21.281	BB	42419	768695	24.43%	1.788%
18	22.144	22.074	22.233	BB	23558	607498	19.30%	1.413%
Sum of corrected areas:						43001469		

FG111324.M Mon Nov 18 01:57:38 2024

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	11/11/24
Project:	124 Main St. Bloomingdale	Date Received:	11/11/24
Client Sample ID:	WASTEMS	SDG No.:	P4810
Lab Sample ID:	P4810-01MS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	80.5
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	TPH GC
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014796.D	1	11/15/24 08:20	11/15/24 12:49	PB164989

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	45800		394	3510	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	12.9		37 - 130	65%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
 Data File : FG014796.D
 Signal(s) : FID1A.ch
 Acq On : 15 Nov 2024 12:49
 Operator : YP\AJ
 Sample : P4810-01MS
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 WASTEMS

Manual Integrations
 APPROVED

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

Integration File: autoint1.e
 Quant Time: Nov 18 01:08:50 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Quant Title :
 QLast Update : Wed Nov 13 13:49:18 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.042	1448280	12.912 ug/ml
Target Compounds			
1) N-OCTANE	2.057	2476403	19.684 ug/ml
2) N-DECANE	4.569	2926228	23.173 ug/ml
3) N-DODECANE	6.741	3040228	23.408 ug/ml
4) N-TETRADECANE	8.572	3000113	23.806 ug/ml
5) N-HEXADECANE	10.183	3100417	24.309 ug/ml
6) N-OCTADECANE	11.629	3380232	25.814 ug/ml
7) N-EICOSANE	12.942	3144118	24.693 ug/ml
8) N-DOCOSANE	14.143	3162116	25.315 ug/ml
10) N-TETRACOSANE	15.247	3074905	24.892 ug/ml
11) N-HEXACOSANE	16.271	3075548	25.565 ug/ml
12) N-OCTACOSANE	17.221	3132439	26.644 ug/ml
13) N-TRIACONTANE	18.109	3088857	26.789 ug/ml
14) N-DOTRIACONTANE	18.942	2772290	25.228 ug/ml
15) N-TETRATRIACONTANE	19.726	1739275	18.824 ug/ml
16) N-HEXATRIACONTANE	20.466	1336072	18.859 ug/mlm
17) N-OCTATRIACONTANE	21.214	903107	15.490 ug/ml
18) N-TETRACONTANE	22.151	978295	19.223 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014796.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 12:49
Operator : YP\AJ
Sample : P4810-01MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

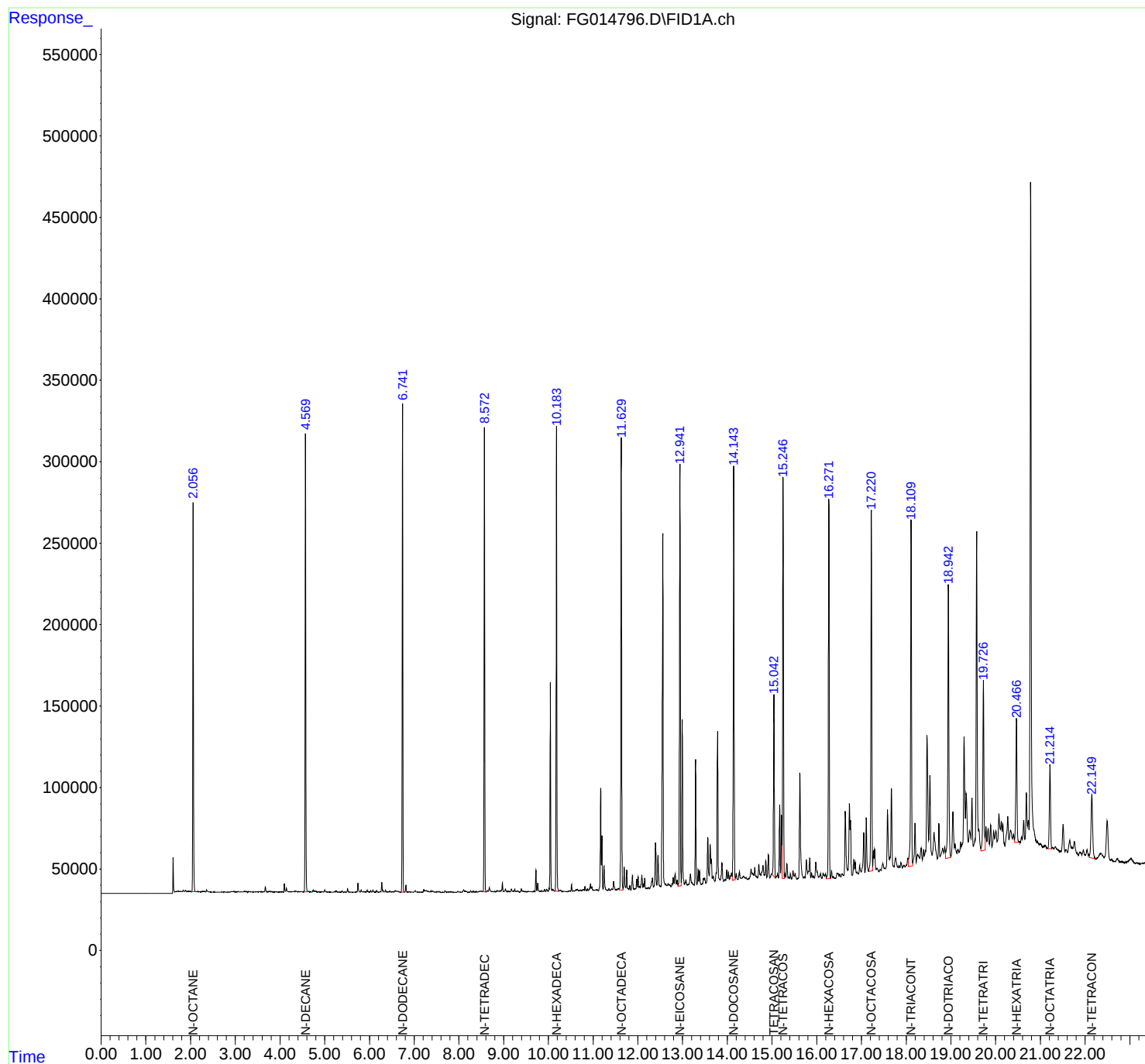
Instrument :
FID_G
ClientSampleId :
WASTEMS

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

Integration File: autoint1.e
Quant Time: Nov 18 01:08:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :

FID_G

ClientSampleId :

WASTEMS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11152
Data File : FG014796.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 12:49
Sample : P4810-01MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

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

Integration File: Sample.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.926	1.906	1.940	BV	66	-367	-0.00%	-0.000%
2	1.956	1.940	1.977	PV	235	2666	0.03%	0.002%
3	1.996	1.977	2.022	PV	473	5153	0.06%	0.004%
4	2.057	2.022	2.130	PV	239027	2483505	30.22%	2.003%
5	2.155	2.130	2.174	VV	271	4737	0.06%	0.004%
6	2.178	2.174	2.187	VV	144	989	0.01%	0.001%
7	2.201	2.187	2.223	VV	188	2821	0.03%	0.002%
8	2.227	2.223	2.241	VV	168	1224	0.01%	0.001%
9	2.254	2.241	2.282	VV	393	6927	0.08%	0.006%
10	2.289	2.282	2.299	VV	549	4593	0.06%	0.004%
11	2.303	2.299	2.339	VV	537	8158	0.10%	0.007%
12	2.356	2.339	2.414	VV	1493	27049	0.33%	0.022%
13	2.419	2.414	2.424	VV	153	863	0.01%	0.001%
14	2.434	2.424	2.483	VV	257	4379	0.05%	0.004%
15	2.515	2.483	2.578	PV	284	6648	0.08%	0.005%
16	2.583	2.578	2.589	PV	87	324	0.00%	0.000%
17	2.596	2.589	2.606	VV	76	524	0.01%	0.000%
18	2.622	2.606	2.629	VV	116	1146	0.01%	0.001%
19	2.631	2.629	2.652	VV	136	1192	0.01%	0.001%
20	2.655	2.652	2.661	VV	123	454	0.01%	0.000%
21	2.666	2.661	2.670	VV	83	406	0.00%	0.000%
22	2.674	2.670	2.686	VV	113	644	0.01%	0.001%
23	2.698	2.686	2.727	VV	336	4078	0.05%	0.003%
24	2.737	2.727	2.741	VV	181	1126	0.01%	0.001%
25	2.750	2.741	2.777	VV	296	3863	0.05%	0.003%
26	2.781	2.777	2.791	VV	151	674	0.01%	0.001%
27	2.802	2.791	2.807	VV	123	828	0.01%	0.001%
28	2.816	2.807	2.833	VV	150	1714	0.02%	0.001%
29	2.838	2.833	2.842	VV	146	662	0.01%	0.001%
30	2.845	2.842	2.850	VV	142	528	0.01%	0.000%
31	2.854	2.850	2.877	VV	156	1684	0.02%	0.001%
32	2.910	2.877	2.936	VV	591	11518	0.14%	0.009%
33	2.958	2.936	2.988	VV	678	14176	0.17%	0.011%
34	3.002	2.988	3.006	VV	329	3124	0.04%	0.003%
35	3.011	3.006	3.038	VV	317	3886	0.05%	0.003%
36	3.061	3.038	3.086	VV	633	9312	0.11%	0.008%

					retention	Area	Area%	Area%
37	3.099	3.086	3.112	VV	243	3245	0.04%	0.003%
38	3.115	3.112	3.119	VV	235	957		
39	3.127	3.119	3.150	VV	300	4512		
40	3.156	3.150	3.164	VV	220	1780		
41	3.167	3.164	3.171	VV	254	917		
42	3.198	3.171	3.217	VV	646	11064		
43	3.231	3.217	3.274	VV	501	13053	0.16%	0.011%
44	3.279	3.274	3.283	VV	255	1305	0.02%	0.001%
45	3.287	3.283	3.293	VV	283	1531	0.02%	0.001%
46	3.320	3.293	3.376	VV	414	13891	0.17%	0.011%
47	3.388	3.376	3.393	VV	251	2068	0.03%	0.002%
48	3.403	3.393	3.411	VV	222	1996	0.02%	0.002%
49	3.415	3.411	3.421	VV	272	1313	0.02%	0.001%
50	3.425	3.421	3.445	VV	256	3229	0.04%	0.003%
51	3.454	3.445	3.459	VV	315	2299	0.03%	0.002%
52	3.469	3.459	3.477	VV	426	3928	0.05%	0.003%
53	3.482	3.477	3.515	VV	419	7970	0.10%	0.006%
54	3.547	3.515	3.581	VV	407	12609	0.15%	0.010%
55	3.600	3.581	3.610	VV	341	4965	0.06%	0.004%
56	3.615	3.610	3.620	VV	320	1680	0.02%	0.001%
57	3.627	3.620	3.648	VV	349	5206	0.06%	0.004%
58	3.673	3.648	3.706	VV	3493	44224	0.54%	0.036%
59	3.728	3.706	3.748	VV	402	8049	0.10%	0.006%
60	3.767	3.748	3.794	VV	625	12256	0.15%	0.010%
61	3.806	3.794	3.842	VV	490	9144	0.11%	0.007%
62	3.850	3.842	3.863	VV	206	2551	0.03%	0.002%
63	3.866	3.863	3.871	VV	214	850	0.01%	0.001%
64	3.905	3.871	3.926	VV	426	9075	0.11%	0.007%
65	3.929	3.926	3.939	VV	250	1690	0.02%	0.001%
66	3.954	3.939	3.977	VV	279	5020	0.06%	0.004%
67	3.984	3.977	3.988	VV	208	1189	0.01%	0.001%
68	3.993	3.988	3.999	VV	286	1605	0.02%	0.001%
69	4.002	3.999	4.016	VV	287	2447	0.03%	0.002%
70	4.031	4.016	4.043	VV	347	4714	0.06%	0.004%
71	4.048	4.043	4.078	VV	325	5261	0.06%	0.004%
72	4.097	4.078	4.123	VV	5406	56366	0.69%	0.045%
73	4.143	4.123	4.195	VV	2720	42414	0.52%	0.034%
74	4.215	4.195	4.238	VV	553	10291	0.13%	0.008%
75	4.245	4.238	4.255	VV	329	2951	0.04%	0.002%
76	4.271	4.255	4.277	VV	419	5058	0.06%	0.004%
77	4.293	4.277	4.302	VV	452	5887	0.07%	0.005%
78	4.313	4.302	4.325	VV	475	5403	0.07%	0.004%
79	4.344	4.325	4.348	VV	799	8117	0.10%	0.007%
80	4.357	4.348	4.395	VV	827	15224	0.19%	0.012%
81	4.416	4.395	4.440	VV	528	10388	0.13%	0.008%
82	4.459	4.440	4.464	VV	411	4870	0.06%	0.004%
83	4.471	4.464	4.476	VV	392	2615	0.03%	0.002%
84	4.496	4.476	4.508	VV	431	7181	0.09%	0.006%
85	4.514	4.508	4.541	VV	360	6288	0.08%	0.005%
86	4.570	4.541	4.627	VV	281288	2944153	35.82%	2.375%
87	4.642	4.627	4.665	VV	760	11784	0.14%	0.010%
88	4.671	4.665	4.682	VV	359	3237	0.04%	0.003%
89	4.695	4.682	4.715	VV	402	5773	0.07%	0.005%

Instrument :

FID_G

ClientSampleId :

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Supervised By :Ankita Jodhani 11/18/2024

90	4.739	4.715	4.753	VV	1302	14570	0.18%	0.012%
91	4.766	4.753	4.781	VV	997	12298		
92	4.798	4.781	4.838	VV	937	16769		
93	4.854	4.838	4.868	VV	462	6094		
94	4.880	4.868	4.898	VV	441	5723		
95	4.905	4.898	4.920	VV	211	2761		
96	4.940	4.920	4.973	VV	599	10893	0.13%	0.009%
97	5.001	4.973	5.036	VV	1647	24473	0.30%	0.020%
98	5.045	5.036	5.055	VV	343	3095	0.04%	0.002%
99	5.058	5.055	5.063	VV	234	950	0.01%	0.001%
100	5.080	5.063	5.103	VV	291	5770	0.07%	0.005%
101	5.123	5.103	5.143	VV	304	4886	0.06%	0.004%
102	5.163	5.143	5.198	VV	192	5210	0.06%	0.004%
103	5.210	5.198	5.216	VV	370	2945	0.04%	0.002%
104	5.226	5.216	5.243	VV	535	6155	0.07%	0.005%
105	5.257	5.243	5.307	VV	960	14511	0.18%	0.012%
106	5.319	5.307	5.329	VV	179	1834	0.02%	0.001%
107	5.333	5.329	5.352	VV	229	1450	0.02%	0.001%
108	5.359	5.352	5.363	VV	111	507	0.01%	0.000%
109	5.388	5.363	5.430	VV	1006	13872	0.17%	0.011%
110	5.451	5.430	5.467	VV	467	5235	0.06%	0.004%
111	5.472	5.467	5.478	VV	109	519	0.01%	0.000%
112	5.512	5.478	5.542	VV	2330	26549	0.32%	0.021%
113	5.549	5.542	5.568	VV	239	2667	0.03%	0.002%
114	5.584	5.568	5.602	VV	262	3587	0.04%	0.003%
115	5.606	5.602	5.616	VV	127	815	0.01%	0.001%
116	5.645	5.616	5.650	VV	206	2478	0.03%	0.002%
117	5.654	5.650	5.686	VV	195	2841	0.03%	0.002%
118	5.707	5.686	5.723	VV	663	7675	0.09%	0.006%
119	5.743	5.723	5.797	VV	5750	68540	0.83%	0.055%
120	5.814	5.797	5.852	VV	1511	21524	0.26%	0.017%
121	5.857	5.852	5.863	VV	334	2046	0.02%	0.002%
122	5.872	5.863	5.884	VV	373	3788	0.05%	0.003%
123	5.899	5.884	5.923	VV	367	6727	0.08%	0.005%
124	5.947	5.923	5.963	VV	1346	16626	0.20%	0.013%
125	5.970	5.963	5.997	VV	811	9400	0.11%	0.008%
126	6.001	5.997	6.009	VV	265	1621	0.02%	0.001%
127	6.029	6.009	6.056	VV	1131	14253	0.17%	0.011%
128	6.079	6.056	6.114	VV	1541	21570	0.26%	0.017%
129	6.117	6.114	6.122	VV	254	1090	0.01%	0.001%
130	6.126	6.122	6.134	VV	242	1654	0.02%	0.001%
131	6.157	6.134	6.202	VV	1242	19810	0.24%	0.016%
132	6.217	6.202	6.224	VV	196	2141	0.03%	0.002%
133	6.242	6.224	6.255	VV	471	6366	0.08%	0.005%
134	6.277	6.255	6.340	VV	6169	87296	1.06%	0.070%
135	6.359	6.340	6.397	VV	1470	22325	0.27%	0.018%
136	6.401	6.397	6.415	VV	309	2817	0.03%	0.002%
137	6.431	6.415	6.440	VV	491	5259	0.06%	0.004%
138	6.458	6.440	6.478	VV	977	13946	0.17%	0.011%
139	6.481	6.478	6.495	VV	372	2722	0.03%	0.002%
140	6.512	6.495	6.523	VV	425	5571	0.07%	0.004%
141	6.537	6.523	6.553	VV	419	5538	0.07%	0.004%

Instrument :

FID_G

ClientSampleId :

WASTEMS

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Instrument : FID_G									
ClientSampleId : WASTEMS									
rteres									
142	6.576	6.553	6.589	VV	1286	16572	0.20%	0.013%	
143	6.600	6.589	6.609	VV	833	8121			
144	6.617	6.609	6.658	VV	801	18615			
145	6.668	6.658	6.693	VV	471	6746			
146	6.741	6.693	6.785	VV	299901	3048401	37		
147	6.816	6.785	6.857	VV	4474	51184			
148	6.867	6.857	6.881	VV	401	4291	0.05%	0.003%	
149	6.894	6.881	6.924	VV	461	7004	0.09%	0.006%	
150	6.945	6.924	6.984	VV	382	7516	0.09%	0.006%	
151	7.021	6.984	7.049	VV	1036	20801	0.25%	0.017%	
152	7.053	7.049	7.077	VV	365	4932	0.06%	0.004%	
153	7.084	7.077	7.112	VV	320	4790	0.06%	0.004%	
154	7.124	7.112	7.156	VV	287	5250	0.06%	0.004%	
155	7.215	7.156	7.232	VV	1925	28900	0.35%	0.023%	
156	7.245	7.232	7.261	VV	1233	17722	0.22%	0.014%	
157	7.270	7.261	7.300	VV	1059	20559	0.25%	0.017%	
158	7.313	7.300	7.339	VV	805	14942	0.18%	0.012%	
159	7.343	7.339	7.352	VV	372	2663	0.03%	0.002%	
160	7.374	7.352	7.395	VV	887	14513	0.18%	0.012%	
161	7.413	7.395	7.453	VV	1036	19821	0.24%	0.016%	
162	7.462	7.453	7.493	VV	452	6779	0.08%	0.005%	
163	7.513	7.493	7.538	VV	679	9854	0.12%	0.008%	
164	7.555	7.538	7.578	VV	881	11042	0.13%	0.009%	
165	7.582	7.578	7.616	VV	266	3291	0.04%	0.003%	
166	7.631	7.616	7.658	VV	191	2835	0.03%	0.002%	
167	7.690	7.658	7.730	PV	1150	18770	0.23%	0.015%	
168	7.750	7.730	7.759	VV	399	4425	0.05%	0.004%	
169	7.771	7.759	7.788	VV	354	4557	0.06%	0.004%	
170	7.803	7.788	7.816	VV	401	4574	0.06%	0.004%	
171	7.838	7.816	7.863	VV	503	8749	0.11%	0.007%	
172	7.869	7.863	7.887	VV	199	2075	0.03%	0.002%	
173	7.902	7.887	7.929	VV	230	2960	0.04%	0.002%	
174	7.934	7.929	7.946	VV	112	867	0.01%	0.001%	
175	7.977	7.946	8.005	VV	725	12588	0.15%	0.010%	
176	8.032	8.005	8.057	VV	338	6755	0.08%	0.005%	
177	8.107	8.057	8.131	VV	1719	35430	0.43%	0.029%	
178	8.145	8.131	8.162	VV	1034	12931	0.16%	0.010%	
179	8.173	8.162	8.199	VV	628	8560	0.10%	0.007%	
180	8.219	8.199	8.243	VV	297	3469	0.04%	0.003%	
181	8.264	8.243	8.287	PV	1078	13818	0.17%	0.011%	
182	8.292	8.287	8.302	VV	266	2087	0.03%	0.002%	
183	8.319	8.302	8.355	VV	1096	14747	0.18%	0.012%	
184	8.389	8.355	8.411	VV	724	13368	0.16%	0.011%	
185	8.461	8.411	8.474	VV	816	16830	0.20%	0.014%	
186	8.490	8.474	8.506	VV	928	13932	0.17%	0.011%	
187	8.517	8.506	8.529	VV	680	8084	0.10%	0.007%	
188	8.537	8.529	8.541	VV	470	3432	0.04%	0.003%	
189	8.572	8.541	8.602	VV	285537	3012113	36.65%	2.430%	
190	8.609	8.602	8.617	VV	284	2380	0.03%	0.002%	
191	8.636	8.617	8.659	VV	1146	19227	0.23%	0.016%	
192	8.682	8.659	8.748	VV	2762	59637	0.73%	0.048%	
193	8.766	8.748	8.787	VV	491	8396	0.10%	0.007%	
194	8.802	8.787	8.822	VV	524	7388	0.09%	0.006%	

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					rters			
195	8.858	8.822	8.886	VV	1057	27722	0.34%	0.022%
196	8.901	8.886	8.916	VV	843	11719		
197	8.931	8.916	8.944	VV	1063	13810		
198	8.974	8.944	8.996	VV	5877	73853		
199	9.042	8.996	9.079	VV	2000	40717		
200	9.082	9.079	9.087	VV	461	1927		
201	9.090	9.087	9.095	VV	462	2064	0.03%	0.002%
202	9.111	9.095	9.132	VV	783	11803	0.14%	0.010%
203	9.135	9.132	9.147	VV	336	2480	0.03%	0.002%
204	9.174	9.147	9.207	VV	1999	33827	0.41%	0.027%
205	9.218	9.207	9.232	VV	772	9090	0.11%	0.007%
206	9.249	9.232	9.280	VV	1922	25111	0.31%	0.020%
207	9.314	9.280	9.338	VV	871	17837	0.22%	0.014%
208	9.342	9.338	9.361	VV	262	1925	0.02%	0.002%
209	9.367	9.361	9.372	VV	118	545	0.01%	0.000%
210	9.398	9.372	9.418	VV	2076	27970	0.34%	0.023%
211	9.427	9.418	9.439	VV	792	8103	0.10%	0.007%
212	9.446	9.439	9.476	VV	586	8744	0.11%	0.007%
213	9.492	9.476	9.518	VV	519	6676	0.08%	0.005%
214	9.544	9.518	9.559	PV	506	6545	0.08%	0.005%
215	9.577	9.559	9.617	VV	472	10930	0.13%	0.009%
216	9.631	9.617	9.648	VV	265	3363	0.04%	0.003%
217	9.663	9.648	9.671	VV	470	4410	0.05%	0.004%
218	9.678	9.671	9.697	VV	487	5357	0.07%	0.004%
219	9.723	9.697	9.746	VV	13388	145239	1.77%	0.117%
220	9.764	9.746	9.805	VV	5464	69239	0.84%	0.056%
221	9.821	9.805	9.828	VV	465	4677	0.06%	0.004%
222	9.843	9.828	9.862	VV	883	12076	0.15%	0.010%
223	9.866	9.862	9.873	VV	373	2283	0.03%	0.002%
224	9.884	9.873	9.898	VV	503	5706	0.07%	0.005%
225	9.917	9.898	9.938	VV	1530	20609	0.25%	0.017%
226	9.964	9.938	9.992	VV	1538	27586	0.34%	0.022%
227	10.016	9.992	10.021	VV	2079	20081	0.24%	0.016%
228	10.046	10.021	10.077	VV	128555	1314549	15.99%	1.060%
229	10.088	10.077	10.104	VV	1671	21154	0.26%	0.017%
230	10.115	10.104	10.143	VV	1351	19467	0.24%	0.016%
231	10.183	10.143	10.237	VV	285648	3124053	38.01%	2.520%
232	10.264	10.237	10.277	VV	1013	19889	0.24%	0.016%
233	10.284	10.277	10.313	VV	752	9974	0.12%	0.008%
234	10.317	10.313	10.322	VV	276	895	0.01%	0.001%
235	10.338	10.322	10.349	VV	352	4348	0.05%	0.004%
236	10.353	10.349	10.362	VV	276	1770	0.02%	0.001%
237	10.370	10.362	10.401	VV	266	2980	0.04%	0.002%
238	10.403	10.401	10.406	VV	81	179	0.00%	0.000%
239	10.426	10.406	10.439	PV	196	2784	0.03%	0.002%
240	10.475	10.439	10.493	VV	622	11314	0.14%	0.009%
241	10.520	10.493	10.544	VV	4306	50659	0.62%	0.041%
242	10.548	10.544	10.557	VV	436	2938	0.04%	0.002%
243	10.565	10.557	10.587	VV	545	6975	0.08%	0.006%
244	10.621	10.587	10.635	VV	1184	23504	0.29%	0.019%
245	10.651	10.635	10.680	VV	1357	22686	0.28%	0.018%
246	10.692	10.680	10.696	VV	604	4993	0.06%	0.004%

Instrument :

FID_G

ClientSampleId :

WASTEMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024

Supervised By :Ankita Jodhani 11/18/2024

						Instrument : FID_G ClientSampleId : WASTEMS		
247	10.714	10.696	10.733	VV	888	14696	0.18%	0.012%
248	10.739	10.733	10.748	VV	503	4017		
249	10.770	10.748	10.776	VV	1028	11895		
250	10.787	10.776	10.802	VV	1183	14643		
251	10.818	10.802	10.857	VV	2874	41424		
252	10.876	10.857	10.891	VV	1613	19772		
253	10.941	10.891	10.958	VV	4421	75006	0.91%	0.061%
254	10.974	10.958	11.010	VV	2731	45599	0.55%	0.037%
255	11.023	11.010	11.031	VV	614	6582	0.08%	0.005%
256	11.042	11.031	11.055	VV	698	8541	0.10%	0.007%
257	11.070	11.055	11.081	VV	828	10533	0.13%	0.008%
258	11.094	11.081	11.122	VV	861	11872	0.14%	0.010%
259	11.170	11.122	11.185	VV	62857	695031	8.46%	0.561%
260	11.197	11.185	11.224	VV	33867	366791	4.46%	0.296%
261	11.245	11.224	11.315	VV	15096	213697	2.60%	0.172%
262	11.322	11.315	11.327	VV	327	2078	0.03%	0.002%
263	11.352	11.327	11.390	VV	1171	19979	0.24%	0.016%
264	11.415	11.390	11.438	VV	1057	21737	0.26%	0.018%
265	11.458	11.438	11.503	VV	5718	85195	1.04%	0.069%
266	11.521	11.503	11.537	VV	764	11083	0.13%	0.009%
267	11.564	11.537	11.584	VV	1269	25468	0.31%	0.021%
268	11.629	11.584	11.671	VV	277677	3394743	41.30%	2.738%
269	11.695	11.671	11.731	VV	14306	200183	2.44%	0.161%
270	11.752	11.731	11.775	VV	12434	145410	1.77%	0.117%
271	11.780	11.775	11.800	VV	1092	12015	0.15%	0.010%
272	11.823	11.800	11.846	VV	2799	34238	0.42%	0.028%
273	11.880	11.846	11.916	PV	9092	132388	1.61%	0.107%
274	11.940	11.916	11.954	VV	712	13862	0.17%	0.011%
275	11.976	11.954	11.991	VV	6485	72078	0.88%	0.058%
276	12.007	11.991	12.028	VV	8073	95622	1.16%	0.077%
277	12.043	12.028	12.057	VV	2187	28779	0.35%	0.023%
278	12.091	12.057	12.110	VV	8948	134450	1.64%	0.108%
279	12.124	12.110	12.136	VV	3294	37742	0.46%	0.030%
280	12.154	12.136	12.181	VV	6828	86211	1.05%	0.070%
281	12.196	12.181	12.216	VV	826	11627	0.14%	0.009%
282	12.237	12.216	12.261	VV	968	16481	0.20%	0.013%
283	12.327	12.261	12.349	VV	6727	152659	1.86%	0.123%
284	12.397	12.349	12.427	VV	28253	438629	5.34%	0.354%
285	12.452	12.427	12.501	VV	20315	306106	3.72%	0.247%
286	12.506	12.501	12.518	VV	1377	12688	0.15%	0.010%
287	12.559	12.518	12.613	VV	218116	3082771	37.51%	2.487%
288	12.625	12.613	12.645	VV	2644	39752	0.48%	0.032%
289	12.679	12.645	12.711	VV	2729	75277	0.92%	0.061%
290	12.717	12.711	12.742	VV	1929	25421	0.31%	0.021%
291	12.766	12.742	12.774	VV	2562	31968	0.39%	0.026%
292	12.792	12.774	12.810	VV	6296	89201	1.09%	0.072%
293	12.835	12.810	12.861	VV	8474	158637	1.93%	0.128%
294	12.879	12.861	12.898	VV	4579	69301	0.84%	0.056%
295	12.942	12.898	12.969	VV	259767	3181610	38.71%	2.566%
296	12.993	12.969	13.042	VV	102896	1254902	15.27%	1.012%
297	13.056	13.042	13.060	VV	2613	23286	0.28%	0.019%
298	13.076	13.060	13.102	VV	4057	65996	0.80%	0.053%
299	13.133	13.102	13.142	VV	1673	33363	0.41%	0.027%

Manual IntegrationsAPPROVED

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					rters			
300	13.176	13.142	13.265	VV	7917	219475	2.67%	0.177%
301	13.291	13.265	13.319	VV	77758	873618	10.31%	0.398%
302	13.349	13.319	13.364	VV	10271	139675	1.39%	0.072%
303	13.381	13.364	13.415	VV	9436	132684	1.23%	0.087%
304	13.437	13.415	13.443	VV	1407	21619	0.18%	0.015%
305	13.467	13.443	13.478	VV	4653	66166	0.69%	0.046%
306	13.495	13.478	13.521	VV	4927	93430	1.14%	0.075%
307	13.564	13.521	13.596	VV	29652	493760	6.01%	0.398%
308	13.618	13.596	13.633	VV	25001	363151	4.42%	0.293%
309	13.642	13.633	13.665	VV	16182	208459	2.54%	0.168%
310	13.686	13.665	13.718	VV	5685	139537	1.70%	0.113%
311	13.752	13.718	13.758	VV	7692	113599	1.38%	0.092%
312	13.783	13.758	13.843	VV	94442	1258007	15.31%	1.015%
313	13.880	13.843	13.920	VV	13605	287872	3.50%	0.232%
314	13.950	13.920	13.966	VV	3443	76843	0.93%	0.062%
315	13.988	13.966	14.012	VV	9263	159723	1.94%	0.129%
316	14.027	14.012	14.047	VV	7888	113944	1.39%	0.092%
317	14.073	14.047	14.081	VV	5518	88966	1.08%	0.072%
318	14.095	14.081	14.110	VV	7116	108405	1.32%	0.087%
319	14.143	14.110	14.181	VV	256663	3271959	39.81%	2.639%
320	14.200	14.181	14.235	VV	6480	139034	1.69%	0.112%
321	14.271	14.235	14.296	VV	7523	174703	2.13%	0.141%
322	14.306	14.296	14.313	VV	3644	36929	0.45%	0.030%
323	14.364	14.313	14.399	VV	4769	200098	2.43%	0.161%
324	14.404	14.399	14.408	VV	3519	19037	0.23%	0.015%
325	14.414	14.408	14.448	VV	3675	75191	0.91%	0.061%
326	14.471	14.448	14.482	VV	2982	56430	0.69%	0.046%
327	14.531	14.482	14.563	VV	8669	265133	3.23%	0.214%
328	14.567	14.563	14.592	VV	5994	95610	1.16%	0.077%
329	14.614	14.592	14.643	VV	9888	191535	2.33%	0.154%
330	14.652	14.643	14.676	VV	4273	75390	0.92%	0.061%
331	14.706	14.676	14.750	VV	11117	282332	3.44%	0.228%
332	14.799	14.750	14.834	VV	10575	333239	4.05%	0.269%
333	14.861	14.834	14.883	VV	13563	220548	2.68%	0.178%
334	14.918	14.883	14.948	VV	17055	317413	3.86%	0.256%
335	14.987	14.948	14.997	VV	5144	118107	1.44%	0.095%
336	15.042	14.997	15.079	VV	115149	1632361	19.86%	1.317%
337	15.098	15.079	15.105	VV	3233	47134	0.57%	0.038%
338	15.123	15.105	15.143	VV	5169	85223	1.04%	0.069%
339	15.171	15.143	15.192	VV	47192	605885	7.37%	0.489%
340	15.212	15.192	15.224	VV	40895	480901	5.85%	0.388%
341	15.247	15.224	15.277	VV	248093	3133708	38.13%	2.528%
342	15.291	15.277	15.306	VV	4797	63777	0.78%	0.051%
343	15.333	15.306	15.361	VV	10752	195348	2.38%	0.158%
344	15.374	15.361	15.391	VV	2712	39581	0.48%	0.032%
345	15.411	15.391	15.436	VV	4573	71078	0.86%	0.057%
346	15.470	15.436	15.498	VV	6199	133388	1.62%	0.108%
347	15.516	15.498	15.561	VV	4618	99413	1.21%	0.080%
348	15.580	15.561	15.589	VV	1634	22152	0.27%	0.018%
349	15.622	15.589	15.705	VV	66104	1095874	13.33%	0.884%
350	15.720	15.705	15.736	VV	2329	35439	0.43%	0.029%
351	15.768	15.736	15.797	VV	12674	239460	2.91%	0.193%

Instrument :

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ClientSampleId :

WASTEMS

Manual IntegrationsAPPROVED

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						Instrument :	
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						ClientSampleId :	
						WASTEMS	
rteres						0.90% 0.059%	
352	15.815	15.797	15.822	VV	5437	73640	
353	15.842	15.822	15.867	VV	13704	210508	
354	15.883	15.867	15.913	VV	4291	70529	
355	15.926	15.913	15.945	VV	2479	33437	
356	15.978	15.945	16.001	VV	10780	192710	
357	16.005	16.001	16.041	VV	5263	77678	
358	16.084	16.041	16.113	VV	3570	88850	1.08% 0.072%
359	16.143	16.113	16.160	VV	3803	64250	0.78% 0.052%
360	16.167	16.160	16.181	VV	2621	31094	0.38% 0.025%
361	16.195	16.181	16.215	VV	3287	47132	0.57% 0.038%
362	16.271	16.215	16.305	VV	232897	3086342	37.55% 2.489%
363	16.330	16.305	16.356	VV	4865	68416	0.83% 0.055%
364	16.370	16.356	16.418	VV	1265	20507	0.25% 0.017%
365	16.456	16.418	16.467	PV	3276	53599	0.65% 0.043%
366	16.478	16.467	16.498	VV	3068	43788	0.53% 0.035%
367	16.514	16.498	16.538	VV	2631	40436	0.49% 0.033%
368	16.566	16.538	16.600	VV	2821	70946	0.86% 0.057%
369	16.637	16.600	16.699	VV	40994	813071	9.89% 0.656%
370	16.730	16.699	16.744	VV	45237	694811	8.45% 0.560%
371	16.754	16.744	16.794	VV	35072	456919	5.56% 0.369%
372	16.829	16.794	16.845	VV	10650	177590	2.16% 0.143%
373	16.860	16.845	16.883	VV	9176	133533	1.62% 0.108%
374	16.899	16.883	16.935	VV	3117	77468	0.94% 0.062%
375	16.959	16.935	16.993	VV	6879	146667	1.78% 0.118%
376	17.050	16.993	17.078	VV	26952	511780	6.23% 0.413%
377	17.107	17.078	17.157	VV	36036	581510	7.08% 0.469%
378	17.221	17.157	17.250	VV	224702	3297400	40.12% 2.660%
379	17.269	17.250	17.282	VV	15589	222724	2.71% 0.180%
380	17.295	17.282	17.325	VV	16278	253423	3.08% 0.204%
381	17.349	17.325	17.393	VV	4496	141169	1.72% 0.114%
382	17.417	17.393	17.436	VV	3556	79397	0.97% 0.064%
383	17.475	17.436	17.504	VV	7038	211561	2.57% 0.171%
384	17.517	17.504	17.527	VV	4320	58199	0.71% 0.047%
385	17.581	17.527	17.625	VV	39801	887087	10.79% 0.716%
386	17.638	17.625	17.643	VV	10299	104546	1.27% 0.084%
387	17.669	17.643	17.730	VV	52584	957622	11.65% 0.772%
388	17.764	17.730	17.823	VV	9695	364291	4.43% 0.294%
389	17.839	17.823	17.856	VV	5073	85593	1.04% 0.069%
390	17.881	17.856	17.914	VV	6906	176453	2.15% 0.142%
391	17.955	17.914	17.972	VV	5075	154042	1.87% 0.124%
392	17.976	17.972	17.980	VV	4159	21432	0.26% 0.017%
393	18.035	17.980	18.048	VV	9184	255350	3.11% 0.206%
394	18.109	18.048	18.145	VV	217072	3333273	40.56% 2.689%
395	18.197	18.145	18.224	VV	30342	667927	8.13% 0.539%
396	18.252	18.224	18.268	VV	11120	255524	3.11% 0.206%
397	18.274	18.268	18.302	VV	10115	186435	2.27% 0.150%
398	18.334	18.302	18.363	VV	14963	409265	4.98% 0.330%
399	18.388	18.363	18.407	VV	13526	282826	3.44% 0.228%
400	18.428	18.407	18.436	VV	13264	205433	2.50% 0.166%
401	18.466	18.436	18.504	VV	83601	1828951	22.25% 1.475%
402	18.530	18.504	18.580	VV	58925	1222322	14.87% 0.986%
403	18.622	18.580	18.698	VV	23888	1031774	12.55% 0.832%
404	18.730	18.698	18.756	VV	29036	530554	6.46% 0.428%

Instrument :
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							Instrument : FID_G	
							ClientSampleId : WASTEMS	
Interferes								
405	18.815	18.756	18.842	VV	13601	574205	6.99%	0.463%
							Manual IntegrationsAPPROVED	
406	18.861	18.842	18.880	VV	14444	281411	3.10%	0.531%
407	18.942	18.880	18.997	VV	175405	3291627	40.10%	1.004%
408	19.044	18.997	19.080	VV	35715	964415	11.15%	0.592%
409	19.094	19.080	19.132	VV	15845	402741	4.24%	0.684%
410	19.158	19.132	19.185	VV	12316	357364	4.31%	0.330%
411	19.219	19.185	19.235	VV	16666	409167	4.98%	0.330%
412	19.293	19.235	19.322	VV	81122	1898184	23.10%	1.531%
413	19.341	19.322	19.388	VV	46239	1244767	15.15%	1.004%
414	19.417	19.388	19.448	VV	23297	734454	8.94%	0.592%
415	19.470	19.448	19.503	VV	43195	847407	10.31%	0.684%
416	19.538	19.503	19.543	VV	17788	373617	4.55%	0.301%
417	19.575	19.543	19.617	VV	206359	3542109	43.10%	2.857%
418	19.624	19.617	19.672	VV	23924	577283	7.02%	0.466%
419	19.726	19.672	19.764	VV	114943	2305657	28.05%	1.860%
420	19.783	19.764	19.805	VV	24950	506611	6.16%	0.409%
421	19.831	19.805	19.858	VV	23805	615186	7.49%	0.496%
422	19.889	19.858	19.918	VV	25913	663613	8.07%	0.535%
423	19.954	19.918	19.975	VV	21995	593832	7.23%	0.479%
424	20.005	19.975	20.033	VV	21935	661916	8.05%	0.534%
425	20.074	20.033	20.107	VV	32326	1026790	12.49%	0.828%
426	20.126	20.107	20.146	VV	27489	564194	6.86%	0.455%
427	20.161	20.146	20.208	VV	25803	685702	8.34%	0.553%
428	20.270	20.208	20.297	VV	30231	1081258	13.16%	0.872%
429	20.336	20.297	20.374	VV	21640	877345	10.67%	0.708%
430	20.397	20.374	20.422	VV	18947	492292	5.99%	0.397%
431	20.466	20.422	20.518	VV	90001	2135649	25.98%	1.723%
432	20.534	20.518	20.552	VV	14360	291575	3.55%	0.235%
433	20.579	20.552	20.599	VV	17084	439912	5.35%	0.355%
434	20.627	20.599	20.653	VV	27042	658644	8.01%	0.531%
435	20.687	20.653	20.711	VV	43983	986797	12.01%	0.796%
436	20.730	20.711	20.746	VV	26758	517015	6.29%	0.417%
437	20.783	20.746	20.919	VV	417137	8218910	100.00%	6.629%
438	20.923	20.919	20.929	VV	13162	82131	1.00%	0.066%
439	20.934	20.929	20.948	VV	13159	145844	1.77%	0.118%
440	20.953	20.948	20.973	VV	12576	180014	2.19%	0.145%
441	21.002	20.973	21.051	VV	11939	517637	6.30%	0.418%
442	21.059	21.051	21.065	VV	9826	79567	0.97%	0.064%
443	21.083	21.065	21.088	VV	10410	140866	1.71%	0.114%
444	21.112	21.088	21.142	VV	10721	323726	3.94%	0.261%
445	21.145	21.142	21.165	VV	9282	124461	1.51%	0.100%
446	21.214	21.165	21.254	VV	59857	1355347	16.49%	1.093%
447	21.274	21.254	21.306	VV	9222	270889	3.30%	0.219%
448	21.333	21.306	21.365	VV	9518	308436	3.75%	0.249%
449	21.370	21.365	21.431	VV	7978	281504	3.43%	0.227%
450	21.444	21.431	21.449	VV	6469	69306	0.84%	0.056%
451	21.453	21.449	21.467	VV	6434	69341	0.84%	0.056%
452	21.509	21.467	21.555	VV	22760	650782	7.92%	0.525%
453	21.577	21.555	21.607	VV	7218	203002	2.47%	0.164%
454	21.654	21.607	21.695	VV	12716	487138	5.93%	0.393%
455	21.699	21.695	21.705	VV	8014	49017	0.60%	0.040%
456	21.709	21.705	21.726	VV	8065	94985	1.16%	0.077%

457 21.762 21.726 21.850 VV 11790 511783 rteres

458 21.887 21.850 21.892 VV 4716 106020

459 21.895 21.892 21.927 VV 4733 88928

460 21.962 21.927 22.001 VV 6125 188645

461 22.042 22.001 22.079 VV 5715 182143

462 22.090 22.079 22.097 VV 3020 29947

463 22.150 22.097 22.241 VV 39228 1029345

464 22.250 22.241 22.254 PV 126 833

Sum of corrected areas: 123975442

Instrument :

FID_G

ClientSampleId :

WASTEMS

6.23% 0.413%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024

Supervised By :Ankita Jodhani 11/18/2024

FG111324.M Mon Nov 18 02:09:17 2024

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	11/11/24
Project:	124 Main St. Bloomingdale	Date Received:	11/11/24
Client Sample ID:	WASTEMSD	SDG No.:	P4810
Lab Sample ID:	P4810-01MSD	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	80.5
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		PH :	
Prep Method :	SW3541	Decanted:	
		Test:	TPH GC
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FG014797.D	1	11/15/24 08:20	11/15/24 13:18	PB164989

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	45800		395	3520	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	12.6		37 - 130	63%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
 Data File : FG014797.D
 Signal(s) : FID1A.ch
 Acq On : 15 Nov 2024 13:18
 Operator : YP\AJ
 Sample : P4810-01MSD
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 WASTEMSD

Manual Integrations
 APPROVED

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

Integration File: autoint1.e
 Quant Time: Nov 18 01:09:00 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
 Quant Title :
 QLast Update : Wed Nov 13 13:49:18 2024
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.043	1414171	12.607 ug/ml
Target Compounds			
1) N-OCTANE	2.057	2627219	20.883 ug/ml
2) N-DECANE	4.569	3059207	24.226 ug/ml
3) N-DODECANE	6.741	3120565	24.027 ug/ml
4) N-TETRADECANE	8.572	3031314	24.053 ug/ml
5) N-HEXADECANE	10.183	3099770	24.304 ug/ml
6) N-OCTADECANE	11.630	3396713	25.940 ug/ml
7) N-EICOSANE	12.942	3118240	24.489 ug/ml
8) N-DOCOSANE	14.143	3103500	24.846 ug/ml
10) N-TETRACOSANE	15.248	3011537	24.379 ug/ml
11) N-HEXACOSANE	16.270	2987945	24.836 ug/ml
12) N-OCTACOSANE	17.221	3097895	26.350 ug/ml
13) N-TRIACONTANE	18.109	3036332	26.333 ug/ml
14) N-DOTRIACONTANE	18.942	2723269	24.782 ug/ml
15) N-TETRATRIACONTANE	19.725	1690815	18.299 ug/ml
16) N-HEXATRIACONTANE	20.464	1386391	19.570 ug/mlm
17) N-OCTATRIACONTANE	21.214	906999	15.556 ug/ml
18) N-TETRACONTANE	22.151	1019804	20.039 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG111524\
Data File : FG014797.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 13:18
Operator : YP\AJ
Sample : P4810-01MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

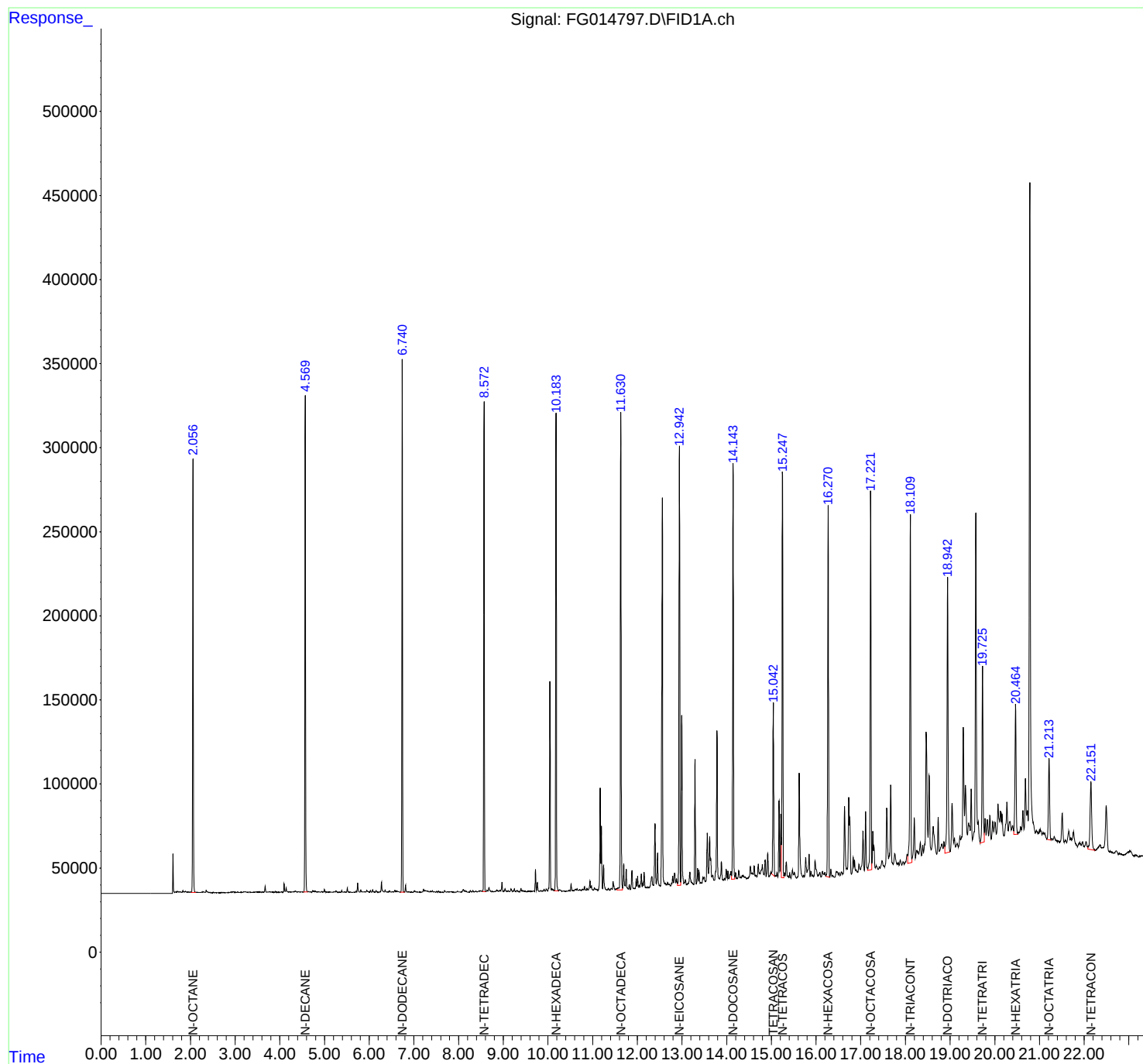
Instrument :
FID_G
ClientSampleId :
WASTEMSD

Manual Integrations
APPROVED

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

Integration File: autoint1.e
Quant Time: Nov 18 01:09:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\FG111324.M
Quant Title :
QLast Update : Wed Nov 13 13:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :

FID_G

ClientSampleId :

WASTEMSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG11152
Data File : FG014797.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 13:18
Sample : P4810-01MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

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

Integration File: Sample.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.925	1.900	1.941	BV	49	-699	-0.01%	-0.001%
2	1.952	1.941	1.978	PV	257	2721	0.03%	0.002%
3	1.996	1.978	2.021	PV	447	4410	0.05%	0.004%
4	2.057	2.021	2.127	PV	257934	2632025	32.76%	2.127%
5	2.131	2.127	2.138	VV	153	747	0.01%	0.001%
6	2.149	2.138	2.177	VV	244	3291	0.04%	0.003%
7	2.180	2.177	2.186	VV	113	520	0.01%	0.000%
8	2.199	2.186	2.222	VV	163	2148	0.03%	0.002%
9	2.228	2.222	2.240	VV	112	956	0.01%	0.001%
10	2.253	2.240	2.262	VV	332	3168	0.04%	0.003%
11	2.267	2.262	2.275	VV	285	1839	0.02%	0.001%
12	2.283	2.275	2.325	VV	572	11229	0.14%	0.009%
13	2.352	2.325	2.379	VV	1584	21137	0.26%	0.017%
14	2.384	2.379	2.413	VV	489	6662	0.08%	0.005%
15	2.429	2.413	2.463	VV	243	3602	0.04%	0.003%
16	2.469	2.463	2.486	VV	69	449	0.01%	0.000%
17	2.508	2.486	2.549	PV	218	4189	0.05%	0.003%
18	2.552	2.549	2.572	VV	112	964	0.01%	0.001%
19	2.577	2.572	2.581	PV	58	250	0.00%	0.000%
20	2.586	2.581	2.591	VV	123	382	0.00%	0.000%
21	2.605	2.591	2.614	VV	140	742	0.01%	0.001%
22	2.620	2.614	2.624	VV	143	518	0.01%	0.000%
23	2.629	2.624	2.638	VV	108	559	0.01%	0.000%
24	2.642	2.638	2.657	VV	71	484	0.01%	0.000%
25	2.659	2.657	2.666	VV	78	233	0.00%	0.000%
26	2.670	2.666	2.679	PV	47	205	0.00%	0.000%
27	2.696	2.679	2.717	PV	282	3560	0.04%	0.003%
28	2.734	2.717	2.738	VV	207	1544	0.02%	0.001%
29	2.747	2.738	2.774	VV	228	2965	0.04%	0.002%
30	2.784	2.774	2.805	VV	104	1560	0.02%	0.001%
31	2.811	2.805	2.816	VV	120	626	0.01%	0.001%
32	2.843	2.816	2.848	VV	163	2083	0.03%	0.002%
33	2.851	2.848	2.871	VV	147	1512	0.02%	0.001%
34	2.908	2.871	2.925	VV	617	10875	0.14%	0.009%
35	2.956	2.925	2.998	VV	734	19388	0.24%	0.016%
36	3.003	2.998	3.043	VV	310	6429	0.08%	0.005%

					retention			
37	3.057	3.043	3.099	VV	732	12176	0.15%	0.010%
38	3.107	3.099	3.116	VV	268	2522		
39	3.125	3.116	3.140	VV	345	4127		
40	3.144	3.140	3.174	VV	318	5280		
41	3.192	3.174	3.216	VV	718	12666		
42	3.228	3.216	3.271	VV	656	15254		
43	3.275	3.271	3.283	VV	345	2337	0.03%	0.002%
44	3.314	3.283	3.349	VV	495	14212	0.18%	0.011%
45	3.354	3.349	3.362	VV	303	2169	0.03%	0.002%
46	3.380	3.362	3.394	VV	272	4787	0.06%	0.004%
47	3.399	3.394	3.404	VV	303	1382	0.02%	0.001%
48	3.413	3.404	3.418	VV	299	2238	0.03%	0.002%
49	3.427	3.418	3.436	VV	342	3160	0.04%	0.003%
50	3.466	3.436	3.470	VV	509	8604	0.11%	0.007%
51	3.479	3.470	3.486	VV	488	4436	0.06%	0.004%
52	3.491	3.486	3.513	VV	428	6163	0.08%	0.005%
53	3.538	3.513	3.543	VV	443	6921	0.09%	0.006%
54	3.547	3.543	3.569	VV	428	5629	0.07%	0.005%
55	3.574	3.569	3.587	VV	357	3247	0.04%	0.003%
56	3.619	3.587	3.626	VV	418	7867	0.10%	0.006%
57	3.634	3.626	3.646	VV	402	4370	0.05%	0.004%
58	3.672	3.646	3.704	VV	3854	48171	0.60%	0.039%
59	3.718	3.704	3.733	VV	479	7123	0.09%	0.006%
60	3.737	3.733	3.742	VV	388	1781	0.02%	0.001%
61	3.764	3.742	3.791	VV	655	14091	0.18%	0.011%
62	3.805	3.791	3.843	VV	530	10930	0.14%	0.009%
63	3.849	3.843	3.874	VV	284	4998	0.06%	0.004%
64	3.882	3.874	3.888	VV	333	2392	0.03%	0.002%
65	3.899	3.888	3.916	VV	533	7039	0.09%	0.006%
66	3.921	3.916	3.939	VV	332	3802	0.05%	0.003%
67	3.951	3.939	3.973	VV	350	5738	0.07%	0.005%
68	3.997	3.973	4.013	VV	332	6608	0.08%	0.005%
69	4.029	4.013	4.073	VV	458	12978	0.16%	0.010%
70	4.097	4.073	4.122	VV	5513	59766	0.74%	0.048%
71	4.143	4.122	4.194	VV	2773	45486	0.57%	0.037%
72	4.213	4.194	4.251	VV	600	15010	0.19%	0.012%
73	4.265	4.251	4.284	VV	511	8543	0.11%	0.007%
74	4.307	4.284	4.323	VV	543	11596	0.14%	0.009%
75	4.341	4.323	4.347	VV	915	10096	0.13%	0.008%
76	4.354	4.347	4.371	VV	938	11479	0.14%	0.009%
77	4.375	4.371	4.395	VV	481	6113	0.08%	0.005%
78	4.410	4.395	4.432	VV	644	11124	0.14%	0.009%
79	4.438	4.432	4.443	VV	427	2676	0.03%	0.002%
80	4.447	4.443	4.457	VV	423	3190	0.04%	0.003%
81	4.464	4.457	4.479	VV	462	5537	0.07%	0.004%
82	4.499	4.479	4.508	VV	430	6907	0.09%	0.006%
83	4.521	4.508	4.535	VV	456	6276	0.08%	0.005%
84	4.569	4.535	4.626	VV	296062	3081906	38.36%	2.491%
85	4.640	4.626	4.680	VV	749	16562	0.21%	0.013%
86	4.691	4.680	4.715	VV	487	7268	0.09%	0.006%
87	4.738	4.715	4.754	VV	1393	17694	0.22%	0.014%
88	4.766	4.754	4.781	VV	1001	12387	0.15%	0.010%
89	4.795	4.781	4.834	VV	1024	19285	0.24%	0.016%

Instrument :

FID_G

ClientSampleId :

WASTEMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024

Supervised By :Ankita Jodhani 11/18/2024

90	4.854	4.834	4.868	VV	629	9564	0.12%	0.008%
91	4.876	4.868	4.913	VV	502	10104		
92	4.938	4.913	4.971	VV	768	15942		
93	4.999	4.971	5.059	VV	1820	34657		
94	5.084	5.059	5.100	VV	405	8085		
95	5.124	5.100	5.136	VV	427	7346		
96	5.139	5.136	5.154	VV	307	2771	0.03%	0.002%
97	5.174	5.154	5.191	VV	323	5812	0.07%	0.005%
98	5.209	5.191	5.215	VV	512	5324	0.07%	0.004%
99	5.228	5.215	5.241	VV	637	7639	0.10%	0.006%
100	5.258	5.241	5.310	VV	1105	19724	0.25%	0.016%
101	5.326	5.310	5.349	VV	322	5550	0.07%	0.004%
102	5.353	5.349	5.357	VV	185	725	0.01%	0.001%
103	5.385	5.357	5.421	VV	1266	18634	0.23%	0.015%
104	5.426	5.421	5.435	VV	283	2044	0.03%	0.002%
105	5.452	5.435	5.472	VV	580	7386	0.09%	0.006%
106	5.474	5.472	5.478	VV	193	629	0.01%	0.001%
107	5.511	5.478	5.539	VV	2690	31778	0.40%	0.026%
108	5.546	5.539	5.567	VV	339	4594	0.06%	0.004%
109	5.580	5.567	5.606	VV	367	6308	0.08%	0.005%
110	5.615	5.606	5.636	VV	170	2679	0.03%	0.002%
111	5.652	5.636	5.673	VV	263	5005	0.06%	0.004%
112	5.681	5.673	5.688	VV	189	1472	0.02%	0.001%
113	5.707	5.688	5.723	VV	757	9185	0.11%	0.007%
114	5.743	5.723	5.796	VV	5779	72312	0.90%	0.058%
115	5.813	5.796	5.858	VV	1514	25123	0.31%	0.020%
116	5.871	5.858	5.879	VV	442	4831	0.06%	0.004%
117	5.898	5.879	5.919	VV	490	9370	0.12%	0.008%
118	5.947	5.919	5.960	VV	1383	18879	0.23%	0.015%
119	5.969	5.960	6.008	VV	855	14283	0.18%	0.012%
120	6.027	6.008	6.054	VV	1226	16718	0.21%	0.014%
121	6.077	6.054	6.111	VV	1707	24062	0.30%	0.019%
122	6.116	6.111	6.121	VV	352	1979	0.02%	0.002%
123	6.128	6.121	6.134	VV	329	2299	0.03%	0.002%
124	6.156	6.134	6.198	VV	1251	21440	0.27%	0.017%
125	6.215	6.198	6.222	VV	244	2972	0.04%	0.002%
126	6.241	6.222	6.255	VV	524	7865	0.10%	0.006%
127	6.277	6.255	6.340	VV	6273	87801	1.09%	0.071%
128	6.357	6.340	6.379	VV	1606	20216	0.25%	0.016%
129	6.384	6.379	6.395	VV	402	3248	0.04%	0.003%
130	6.399	6.395	6.410	VV	330	2591	0.03%	0.002%
131	6.428	6.410	6.440	VV	536	7383	0.09%	0.006%
132	6.457	6.440	6.493	VV	1076	18304	0.23%	0.015%
133	6.512	6.493	6.526	VV	419	6776	0.08%	0.005%
134	6.537	6.526	6.550	VV	465	5409	0.07%	0.004%
135	6.576	6.550	6.591	VV	1453	20009	0.25%	0.016%
136	6.600	6.591	6.608	VV	759	6939	0.09%	0.006%
137	6.624	6.608	6.656	VV	867	19160	0.24%	0.015%
138	6.660	6.656	6.701	VV	488	8310	0.10%	0.007%
139	6.741	6.701	6.791	VV	316809	3130182	38.96%	2.530%
140	6.815	6.791	6.857	VV	4469	50983	0.63%	0.041%
141	6.867	6.857	6.882	VV	428	4954	0.06%	0.004%

Instrument :

FID_G

ClientSampleId :

WASTEMSD

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 11/18/2024

					retention			
142	6.894	6.882	6.926	VV	491	7104	0.09%	0.006%
143	6.947	6.926	6.983	VV	298	6510		
144	7.005	6.983	7.009	VV	729	6414		
145	7.020	7.009	7.042	VV	1114	14714		
146	7.046	7.042	7.053	VV	366	2211		
147	7.057	7.053	7.075	VV	347	3947		
148	7.088	7.075	7.104	VV	339	4353	0.05%	0.004%
149	7.129	7.104	7.163	VV	281	6572	0.08%	0.005%
150	7.191	7.163	7.200	VV	326	5111	0.06%	0.004%
151	7.215	7.200	7.230	VV	2006	22416	0.28%	0.018%
152	7.244	7.230	7.259	VV	1372	19704	0.25%	0.016%
153	7.267	7.259	7.298	VV	1104	21868	0.27%	0.018%
154	7.314	7.298	7.349	VV	843	17555	0.22%	0.014%
155	7.373	7.349	7.394	VV	910	14426	0.18%	0.012%
156	7.413	7.394	7.448	VV	995	18044	0.22%	0.015%
157	7.463	7.448	7.492	VV	466	7105	0.09%	0.006%
158	7.512	7.492	7.537	VV	712	9590	0.12%	0.008%
159	7.555	7.537	7.573	VV	897	10355	0.13%	0.008%
160	7.588	7.573	7.605	VV	287	3609	0.04%	0.003%
161	7.610	7.605	7.617	VV	98	526	0.01%	0.000%
162	7.628	7.617	7.633	VV	199	1381	0.02%	0.001%
163	7.638	7.633	7.658	VV	177	1701	0.02%	0.001%
164	7.689	7.658	7.735	PV	1254	20913	0.26%	0.017%
165	7.752	7.735	7.762	VV	396	4527	0.06%	0.004%
166	7.773	7.762	7.790	VV	346	4291	0.05%	0.003%
167	7.803	7.790	7.815	VV	414	4760	0.06%	0.004%
168	7.819	7.815	7.825	VV	318	1694	0.02%	0.001%
169	7.836	7.825	7.887	VV	449	10128	0.13%	0.008%
170	7.901	7.887	7.924	VV	178	3002	0.04%	0.002%
171	7.934	7.924	7.946	VV	119	1285	0.02%	0.001%
172	7.977	7.946	8.013	VV	742	14785	0.18%	0.012%
173	8.030	8.013	8.049	VV	279	4288	0.05%	0.003%
174	8.073	8.049	8.080	VV	326	3990	0.05%	0.003%
175	8.107	8.080	8.132	VV	1692	33277	0.41%	0.027%
176	8.144	8.132	8.162	VV	1045	13314	0.17%	0.011%
177	8.175	8.162	8.201	VV	604	7967	0.10%	0.006%
178	8.219	8.201	8.242	VV	259	2886	0.04%	0.002%
179	8.263	8.242	8.284	PV	1126	13720	0.17%	0.011%
180	8.292	8.284	8.303	VV	296	2733	0.03%	0.002%
181	8.320	8.303	8.339	VV	1044	12211	0.15%	0.010%
182	8.343	8.339	8.354	VV	291	2164	0.03%	0.002%
183	8.389	8.354	8.417	VV	746	15346	0.19%	0.012%
184	8.462	8.417	8.474	VV	922	17129	0.21%	0.014%
185	8.489	8.474	8.504	VV	980	13577	0.17%	0.011%
186	8.516	8.504	8.532	VV	732	10436	0.13%	0.008%
187	8.572	8.532	8.604	VV	291374	3046733	37.92%	2.463%
188	8.611	8.604	8.617	VV	307	2271	0.03%	0.002%
189	8.637	8.617	8.659	VV	1137	19296	0.24%	0.016%
190	8.682	8.659	8.753	VV	2779	61286	0.76%	0.050%
191	8.759	8.753	8.763	VV	420	2341	0.03%	0.002%
192	8.767	8.763	8.786	VV	438	4580	0.06%	0.004%
193	8.804	8.786	8.821	VV	473	6840	0.09%	0.006%
194	8.841	8.821	8.848	VV	809	9452	0.12%	0.008%

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195	8.859	8.848	8.886	VV	1150	19337	0.24%	0.016%	
196	8.899	8.886	8.915	VV	871	12258			
197	8.931	8.915	8.944	VV	1138	14546			
198	8.974	8.944	8.997	VV	5986	74732			
199	9.041	8.997	9.074	VV	1974	39722			
200	9.080	9.074	9.094	VV	469	5075			
201	9.112	9.094	9.127	VV	759	11095	0.14%	0.009%	
202	9.133	9.127	9.142	VV	367	2742	0.03%	0.002%	
203	9.174	9.142	9.204	VV	1993	34852	0.43%	0.028%	
204	9.220	9.204	9.232	VV	810	10799	0.13%	0.009%	
205	9.249	9.232	9.277	VV	1902	24872	0.31%	0.020%	
206	9.314	9.277	9.333	VV	931	19588	0.24%	0.016%	
207	9.342	9.333	9.357	VV	350	3460	0.04%	0.003%	
208	9.364	9.357	9.369	VV	179	960	0.01%	0.001%	
209	9.398	9.369	9.416	VV	2077	29220	0.36%	0.024%	
210	9.427	9.416	9.439	VV	863	9614	0.12%	0.008%	
211	9.449	9.439	9.477	VV	719	10559	0.13%	0.009%	
212	9.490	9.477	9.519	VV	560	7277	0.09%	0.006%	
213	9.546	9.519	9.560	PV	550	7674	0.10%	0.006%	
214	9.579	9.560	9.591	VV	524	7193	0.09%	0.006%	
215	9.595	9.591	9.619	VV	397	5340	0.07%	0.004%	
216	9.632	9.619	9.642	VV	326	3469	0.04%	0.003%	
217	9.663	9.642	9.672	VV	540	6695	0.08%	0.005%	
218	9.678	9.672	9.698	VV	565	6335	0.08%	0.005%	
219	9.723	9.698	9.745	VV	13424	146193	1.82%	0.118%	
220	9.764	9.745	9.806	VV	5510	69892	0.87%	0.056%	
221	9.821	9.806	9.826	VV	445	4142	0.05%	0.003%	
222	9.843	9.826	9.863	VV	811	13291	0.17%	0.011%	
223	9.867	9.863	9.872	VV	423	2205	0.03%	0.002%	
224	9.886	9.872	9.896	VV	593	7050	0.09%	0.006%	
225	9.916	9.896	9.939	VV	1561	22016	0.27%	0.018%	
226	9.964	9.939	9.995	VV	1560	29220	0.36%	0.024%	
227	10.017	9.995	10.021	VV	2113	19630	0.24%	0.016%	
228	10.046	10.021	10.076	VV	124874	1300950	16.19%	1.052%	
229	10.089	10.076	10.102	VV	1666	20862	0.26%	0.017%	
230	10.115	10.102	10.137	VV	1475	20682	0.26%	0.017%	
231	10.183	10.137	10.235	VV	284342	3126362	38.91%	2.527%	
232	10.265	10.235	10.277	VV	1065	20935	0.26%	0.017%	
233	10.282	10.277	10.313	VV	785	9518	0.12%	0.008%	
234	10.344	10.313	10.359	VV	353	5745	0.07%	0.005%	
235	10.373	10.359	10.391	VV	233	2649	0.03%	0.002%	
236	10.394	10.391	10.406	VV	81	346	0.00%	0.000%	
237	10.423	10.406	10.438	PV	154	1863	0.02%	0.002%	
238	10.475	10.438	10.494	VV	670	10982	0.14%	0.009%	
239	10.520	10.494	10.543	VV	4302	48562	0.60%	0.039%	
240	10.567	10.543	10.586	VV	544	9576	0.12%	0.008%	
241	10.621	10.586	10.635	VV	1186	23605	0.29%	0.019%	
242	10.651	10.635	10.678	VV	1373	21942	0.27%	0.018%	
243	10.715	10.678	10.751	VV	958	24782	0.31%	0.020%	
244	10.768	10.751	10.777	VV	1010	11380	0.14%	0.009%	
245	10.784	10.777	10.802	VV	973	12152	0.15%	0.010%	
246	10.818	10.802	10.858	VV	2690	40108	0.50%	0.032%	

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247	10.875	10.858	10.893	VV	1641	20695	0.26% 0.017%
248	10.942	10.893	10.959	VV	5757	89191	
249	10.974	10.959	11.013	VV	2974	46866	
250	11.043	11.013	11.061	VV	1811	27526	
251	11.069	11.061	11.084	VV	890	10162	
252	11.094	11.084	11.122	VV	797	10008	
253	11.171	11.122	11.186	VV	61064	688490	8.57% 0.557%
254	11.198	11.186	11.225	VV	38264	416333	5.18% 0.337%
255	11.246	11.225	11.318	VV	14945	213159	2.65% 0.172%
256	11.322	11.318	11.327	VV	328	1773	0.02% 0.001%
257	11.352	11.327	11.376	VV	1320	18676	0.23% 0.015%
258	11.382	11.376	11.392	VV	269	1996	0.02% 0.002%
259	11.415	11.392	11.438	VV	1109	20758	0.26% 0.017%
260	11.459	11.438	11.503	VV	5257	86640	1.08% 0.070%
261	11.524	11.503	11.543	VV	878	14694	0.18% 0.012%
262	11.566	11.543	11.583	VV	1327	26141	0.33% 0.021%
263	11.630	11.583	11.671	VV	284322	3379672	42.06% 2.732%
264	11.696	11.671	11.732	VV	15641	226383	2.82% 0.183%
265	11.752	11.732	11.800	VV	12460	159491	1.98% 0.129%
266	11.822	11.800	11.847	VV	2979	37443	0.47% 0.030%
267	11.881	11.847	11.916	PV	11390	161010	2.00% 0.130%
268	11.933	11.916	11.953	VV	817	15718	0.20% 0.013%
269	11.976	11.953	11.991	VV	6377	72671	0.90% 0.059%
270	12.008	11.991	12.028	VV	7949	95328	1.19% 0.077%
271	12.043	12.028	12.057	VV	2408	31967	0.40% 0.026%
272	12.091	12.057	12.109	VV	9034	132447	1.65% 0.107%
273	12.124	12.109	12.135	VV	3366	37253	0.46% 0.030%
274	12.153	12.135	12.186	VV	10029	134022	1.67% 0.108%
275	12.198	12.186	12.219	VV	918	14025	0.17% 0.011%
276	12.236	12.219	12.261	VV	1137	18249	0.23% 0.015%
277	12.327	12.261	12.363	VV	7122	192221	2.39% 0.155%
278	12.396	12.363	12.427	VV	38480	580172	7.22% 0.469%
279	12.453	12.427	12.499	VV	20955	311052	3.87% 0.251%
280	12.510	12.499	12.519	VV	1502	16411	0.20% 0.013%
281	12.561	12.519	12.613	VV	231993	3185782	39.65% 2.575%
282	12.626	12.613	12.645	VV	2794	43206	0.54% 0.035%
283	12.656	12.645	12.660	VV	1860	15699	0.20% 0.013%
284	12.678	12.660	12.699	VV	3071	53444	0.67% 0.043%
285	12.715	12.699	12.739	VV	1941	37737	0.47% 0.031%
286	12.767	12.739	12.775	VV	2512	33632	0.42% 0.027%
287	12.792	12.775	12.810	VV	6436	88947	1.11% 0.072%
288	12.833	12.810	12.863	VV	8361	173103	2.15% 0.140%
289	12.878	12.863	12.901	VV	4916	76729	0.95% 0.062%
290	12.942	12.901	12.970	VV	262327	3150486	39.21% 2.547%
291	12.994	12.970	13.042	VV	101804	1249615	15.55% 1.010%
292	13.057	13.042	13.062	VV	2583	27542	0.34% 0.022%
293	13.075	13.062	13.102	VV	3985	60844	0.76% 0.049%
294	13.132	13.102	13.142	VV	1783	33315	0.41% 0.027%
295	13.176	13.142	13.227	VV	8557	195122	2.43% 0.158%
296	13.236	13.227	13.261	VV	1820	27465	0.34% 0.022%
297	13.293	13.261	13.319	VV	75133	860264	10.71% 0.695%
298	13.348	13.319	13.365	VV	10349	140886	1.75% 0.114%
299	13.380	13.365	13.419	VV	9437	135501	1.69% 0.110%

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0.26% 0.017%

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300	13.430	13.419	13.446	VV	1640	23432	0.29%	0.019%
301	13.467	13.446	13.477	VV	4701	59707		
302	13.494	13.477	13.516	VV	4945	89913		
303	13.564	13.516	13.592	VV	30931	500238		
304	13.618	13.592	13.634	VV	28698	445709		
305	13.642	13.634	13.668	VV	15898	215147		
306	13.688	13.668	13.720	VV	5753	136264	1.70%	0.110%
307	13.782	13.720	13.839	VV	91442	1349989	16.80%	1.091%
308	13.882	13.839	13.924	VV	13199	293877	3.66%	0.238%
309	13.950	13.924	13.965	VV	3370	66578	0.83%	0.054%
310	13.990	13.965	14.011	VV	8932	154366	1.92%	0.125%
311	14.029	14.011	14.051	VV	7508	120361	1.50%	0.097%
312	14.075	14.051	14.080	VV	5617	77866	0.97%	0.063%
313	14.095	14.080	14.111	VV	7373	114822	1.43%	0.093%
314	14.143	14.111	14.181	VV	249957	3213674	40.00%	2.598%
315	14.199	14.181	14.238	VV	6425	139782	1.74%	0.113%
316	14.270	14.238	14.297	VV	7426	167441	2.08%	0.135%
317	14.313	14.297	14.321	VV	3559	49573	0.62%	0.040%
318	14.326	14.321	14.330	VV	3403	18302	0.23%	0.015%
319	14.366	14.330	14.402	VV	4621	169272	2.11%	0.137%
320	14.408	14.402	14.410	VV	3364	16137	0.20%	0.013%
321	14.418	14.410	14.450	VV	3364	69355	0.86%	0.056%
322	14.464	14.450	14.481	VV	2820	48612	0.61%	0.039%
323	14.530	14.481	14.554	VV	9493	235303	2.93%	0.190%
324	14.568	14.554	14.596	VV	5453	129193	1.61%	0.104%
325	14.615	14.596	14.642	VV	9655	169563	2.11%	0.137%
326	14.649	14.642	14.675	VV	3973	72749	0.91%	0.059%
327	14.706	14.675	14.727	VV	10637	209890	2.61%	0.170%
328	14.734	14.727	14.749	VV	5334	66444	0.83%	0.054%
329	14.798	14.749	14.838	VV	10173	350667	4.36%	0.283%
330	14.861	14.838	14.883	VV	12887	204117	2.54%	0.165%
331	14.919	14.883	14.950	VV	16756	313918	3.91%	0.254%
332	14.987	14.950	14.998	VV	5496	116826	1.45%	0.094%
333	15.043	14.998	15.078	VV	105859	1583579	19.71%	1.280%
334	15.090	15.078	15.104	VV	3167	45520	0.57%	0.037%
335	15.123	15.104	15.143	VV	4916	81903	1.02%	0.066%
336	15.172	15.143	15.192	VV	47617	591252	7.36%	0.478%
337	15.212	15.192	15.224	VV	39586	473100	5.89%	0.382%
338	15.248	15.224	15.277	VV	242771	3064674	38.14%	2.477%
339	15.291	15.277	15.307	VV	4497	61168	0.76%	0.049%
340	15.334	15.307	15.363	VV	10799	195931	2.44%	0.158%
341	15.375	15.363	15.392	VV	2549	36485	0.45%	0.029%
342	15.410	15.392	15.437	VV	4406	66702	0.83%	0.054%
343	15.470	15.437	15.500	VV	5958	134657	1.68%	0.109%
344	15.514	15.500	15.563	VV	4419	96011	1.19%	0.078%
345	15.584	15.563	15.593	VV	1755	24105	0.30%	0.019%
346	15.623	15.593	15.703	VV	63222	1049196	13.06%	0.848%
347	15.722	15.703	15.738	VV	2385	37938	0.47%	0.031%
348	15.767	15.738	15.797	VV	12958	232535	2.89%	0.188%
349	15.843	15.797	15.868	VV	14778	298835	3.72%	0.242%
350	15.885	15.868	15.910	VV	4374	67383	0.84%	0.054%
351	15.928	15.910	15.945	VV	2314	36199	0.45%	0.029%

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352	15.978	15.945	16.039	VV	10368	265286	3.30%	0.214%	
353	16.054	16.039	16.062	VV	2108	24012			
354	16.084	16.062	16.112	VV	3533	66708			
355	16.142	16.112	16.164	VV	4028	73513			
356	16.170	16.164	16.182	VV	2446	25321			
357	16.195	16.182	16.216	VV	3326	46935			
358	16.270	16.216	16.306	VV	221773	3016999	37.55%	2.439%	
359	16.330	16.306	16.353	VV	5046	68099	0.85%	0.055%	
360	16.370	16.353	16.416	VV	1300	24602	0.31%	0.020%	
361	16.453	16.416	16.470	PV	3440	61608	0.77%	0.050%	
362	16.478	16.470	16.498	VV	3025	37481	0.47%	0.030%	
363	16.515	16.498	16.537	VV	2595	37678	0.47%	0.030%	
364	16.568	16.537	16.604	VV	2879	73070	0.91%	0.059%	
365	16.636	16.604	16.677	VV	41660	721576	8.98%	0.583%	
366	16.685	16.677	16.700	VV	4667	61263	0.76%	0.050%	
367	16.731	16.700	16.745	VV	46698	681743	8.48%	0.551%	
368	16.753	16.745	16.794	VV	34571	442527	5.51%	0.358%	
369	16.830	16.794	16.846	VV	10782	180127	2.24%	0.146%	
370	16.860	16.846	16.885	VV	9091	131082	1.63%	0.106%	
371	16.896	16.885	16.913	VV	2939	43744	0.54%	0.035%	
372	16.919	16.913	16.935	VV	2002	23800	0.30%	0.019%	
373	16.959	16.935	16.989	VV	6253	128519	1.60%	0.104%	
374	17.051	16.989	17.079	VV	25611	505841	6.30%	0.409%	
375	17.108	17.079	17.155	VV	37221	567866	7.07%	0.459%	
376	17.221	17.155	17.249	VV	227006	3221701	40.10%	2.604%	
377	17.270	17.249	17.285	VV	25005	357575	4.45%	0.289%	
378	17.294	17.285	17.323	VV	16277	230045	2.86%	0.186%	
379	17.346	17.323	17.382	VV	4400	125141	1.56%	0.101%	
380	17.389	17.382	17.393	VV	2246	14446	0.18%	0.012%	
381	17.417	17.393	17.435	VV	3493	72296	0.90%	0.058%	
382	17.474	17.435	17.510	VV	6929	220491	2.74%	0.178%	
383	17.515	17.510	17.534	VV	3828	50497	0.63%	0.041%	
384	17.582	17.534	17.622	VV	38017	822636	10.24%	0.665%	
385	17.638	17.622	17.644	VV	9889	116956	1.46%	0.095%	
386	17.670	17.644	17.723	VV	51495	898886	11.19%	0.727%	
387	17.759	17.723	17.821	VV	10267	378998	4.72%	0.306%	
388	17.839	17.821	17.857	VV	4968	91416	1.14%	0.074%	
389	17.883	17.857	17.920	VV	6306	174158	2.17%	0.141%	
390	17.950	17.920	17.966	VV	4981	116973	1.46%	0.095%	
391	17.972	17.966	17.980	VV	4064	34360	0.43%	0.028%	
392	18.037	17.980	18.052	VV	9267	272759	3.39%	0.220%	
393	18.109	18.052	18.144	VV	210857	3254458	40.50%	2.631%	
394	18.198	18.144	18.223	VV	30742	679985	8.46%	0.550%	
395	18.256	18.223	18.296	VV	11106	420074	5.23%	0.340%	
396	18.332	18.296	18.363	VV	15570	445578	5.55%	0.360%	
397	18.387	18.363	18.405	VV	13741	266819	3.32%	0.216%	
398	18.432	18.405	18.436	VV	14437	232994	2.90%	0.188%	
399	18.464	18.436	18.505	VV	80774	1826242	22.73%	1.476%	
400	18.531	18.505	18.576	VV	54962	1162712	14.47%	0.940%	
401	18.621	18.576	18.699	VV	24341	1083437	13.48%	0.876%	
402	18.732	18.699	18.755	VV	29352	533055	6.63%	0.431%	
403	18.817	18.755	18.841	VV	13341	580743	7.23%	0.469%	
404	18.863	18.841	18.882	VV	14450	302419	3.76%	0.244%	

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405	18.942	18.882	19.000	VV	171436	3275446	40.77%	2.648%
406	19.043	19.000	19.078	VV	36863	957551	11.11%	0.111%
407	19.097	19.078	19.122	VV	16282	356487	4.43%	0.044%
408	19.143	19.122	19.148	VV	12065	174300	2.22%	0.022%
409	19.161	19.148	19.182	VV	12488	240347	2.22%	0.022%
410	19.218	19.182	19.237	VV	16860	451850	3.77%	0.038%
411	19.293	19.237	19.321	VV	81141	1872074	23.30%	1.513%
412	19.341	19.321	19.389	VV	46701	1259361	15.67%	1.018%
413	19.413	19.389	19.449	VV	24175	783077	9.75%	0.633%
414	19.471	19.449	19.499	VV	44126	826137	10.28%	0.668%
415	19.574	19.499	19.615	VV	207952	4006276	49.86%	3.238%
416	19.629	19.615	19.669	VV	24147	589818	7.34%	0.477%
417	19.725	19.669	19.766	VV	116635	2371472	29.51%	1.917%
418	19.784	19.766	19.806	VV	25897	500572	6.23%	0.405%
419	19.829	19.806	19.859	VV	25107	660379	8.22%	0.534%
420	19.890	19.859	19.920	VV	27286	720451	8.97%	0.582%
421	19.955	19.920	19.976	VV	23322	622611	7.75%	0.503%
422	20.004	19.976	20.033	VV	22845	680883	8.47%	0.550%
423	20.071	20.033	20.104	VV	33833	1028602	12.80%	0.831%
424	20.125	20.104	20.146	VV	29291	656994	8.18%	0.531%
425	20.160	20.146	20.212	VV	27392	773991	9.63%	0.626%
426	20.271	20.212	20.302	VV	34057	1198084	14.91%	0.968%
427	20.338	20.302	20.372	VV	22328	848697	10.56%	0.686%
428	20.394	20.372	20.422	VV	19687	550151	6.85%	0.445%
429	20.465	20.422	20.518	VV	91652	2214579	27.56%	1.790%
430	20.541	20.518	20.548	VV	15732	277331	3.45%	0.224%
431	20.575	20.548	20.597	VV	18599	503280	6.26%	0.407%
432	20.629	20.597	20.653	VV	28213	725520	9.03%	0.586%
433	20.685	20.653	20.712	VV	47085	1075489	13.39%	0.869%
434	20.729	20.712	20.747	VV	27796	551783	6.87%	0.446%
435	20.783	20.747	20.910	VV	401199	8034872	100.00%	6.495%
436	20.928	20.910	20.970	VV	15472	527573	6.57%	0.426%
437	20.973	20.970	20.976	VV	13620	45920	0.57%	0.037%
438	21.016	20.987	21.055	VV	15606	594507	7.40%	0.481%
439	21.073	21.055	21.079	VV	13492	185498	2.31%	0.150%
440	21.091	21.079	21.104	VV	13612	202652	2.52%	0.164%
441	21.214	21.165	21.261	VV	57783	1441928	17.95%	1.166%
442	21.276	21.261	21.302	VV	9596	226110	2.81%	0.183%
443	21.329	21.302	21.364	VV	10879	357153	4.45%	0.289%
444	21.369	21.364	21.390	VV	8507	125492	1.56%	0.101%
445	21.395	21.390	21.409	VV	8067	90373	1.12%	0.073%
446	21.429	21.409	21.448	VV	7966	178585	2.22%	0.144%
447	21.453	21.448	21.458	VV	7342	41982	0.52%	0.034%
448	21.657	21.605	21.685	VV	13083	471782	5.87%	0.381%
449	21.702	21.685	21.730	VV	8484	217346	2.71%	0.176%
450	22.043	22.006	22.082	VV	5769	181523	2.26%	0.147%
451	22.151	22.082	22.248	VV	41160	1082104	13.47%	0.875%
Sum of corrected areas:							123715681	

Manual IntegrationsAPPROVED

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

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
100 TRPH STD		FG014764.D	FG111324	N-TETRACONTANE	Ankita	11/14/2024 11:06:15 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
P4810-01MS		FG014796.D	FG111524	N-HEXATRIACONTANE	Ankita	11/18/2024 10:47:59 AM	Peak Integrated by Software incorrectly
P4810-01MSD		FG014797.D	FG111524	N-HEXATRIACONTANE	Ankita	11/18/2024 10:48:00 AM	Peak Integrated by Software incorrectly
P4839-06		FG014809.D	FG111524	TETRACOSANE-d50 (SURROGA	Ankita	11/18/2024 10:48:02 AM	Peak Integrated by Software incorrectly

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111324

Review By	yogesh	Review On	11/13/2024 9:02:08 AM
Supervise By	Ankita	Supervise On	11/14/2024 11:06:20 AM
SubDirectory	FG111324	HP Acquire Method	HP Processing Method FG111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleID	Data File Name	Date-Time	Operator	Status
1	MECL2	FG014757.D	13 Nov 2024 08:37	YP\AJ	Ok
2	I.BLK	FG014758.D	13 Nov 2024 09:05	YP\AJ	Ok
3	100 TRPH STD	FG014759.D	13 Nov 2024 09:33	YP\AJ	Not Ok
4	50 TRPH STD	FG014760.D	13 Nov 2024 10:02	YP\AJ	Ok
5	20 TRPH STD	FG014761.D	13 Nov 2024 10:30	YP\AJ	Ok
6	10 TRPH STD	FG014762.D	13 Nov 2024 10:58	YP\AJ	Ok
7	5 TRPH STD	FG014763.D	13 Nov 2024 12:25	YP\AJ	Ok
8	100 TRPH STD	FG014764.D	13 Nov 2024 13:22	YP\AJ	Ok,M
9	FG111324ICV	FG014765.D	13 Nov 2024 14:00	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111524

Review By	yogesh	Review On	11/15/2024 11:08:18 AM
Supervise By	Ankita	Supervise On	11/18/2024 10:48:08 AM
SubDirectory	FG111524	HP Acquire Method	HP Processing Method FG111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23963 PP23962,PP23967		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG014789.D	15 Nov 2024 09:28	YP\AJ	Ok
2	I.BLK	FG014790.D	15 Nov 2024 09:56	YP\AJ	Ok
3	50 PPM TRPH STD	FG014791.D	15 Nov 2024 10:24	YP\AJ	Ok
4	RT MARKER	FG014792.D	15 Nov 2024 10:56	YP\AJ	Ok
5	PB164989BL	FG014793.D	15 Nov 2024 11:24	YP\AJ	Ok
6	PB164989BS	FG014794.D	15 Nov 2024 11:53	YP\AJ	Ok
7	P4810-01	FG014795.D	15 Nov 2024 12:21	YP\AJ	Ok
8	P4810-01MS	FG014796.D	15 Nov 2024 12:49	YP\AJ	Ok,M
9	P4810-01MSD	FG014797.D	15 Nov 2024 13:18	YP\AJ	Ok,M
10	I.BLK	FG014798.D	15 Nov 2024 13:46	YP\AJ	Ok
11	50 PPM TRPH STD	FG014799.D	15 Nov 2024 14:14	YP\AJ	Ok
12	I.BLK	FG014800.D	15 Nov 2024 15:11	YP\AJ	Ok
13	50 PPM TRPH STD	FG014801.D	15 Nov 2024 15:39	YP\AJ	Ok
14	RT MARKER	FG014802.D	15 Nov 2024 16:36	YP\AJ	Ok
15	PB164995BL	FG014803.D	15 Nov 2024 17:04	YP\AJ	Ok
16	PB164995BS	FG014804.D	15 Nov 2024 17:33	YP\AJ	Ok
17	P4839-02	FG014805.D	15 Nov 2024 18:01	YP\AJ	Dilution
18	P4839-03	FG014806.D	15 Nov 2024 18:30	YP\AJ	Dilution
19	P4839-04	FG014807.D	15 Nov 2024 18:58	YP\AJ	Ok
20	P4839-05	FG014808.D	15 Nov 2024 19:26	YP\AJ	Dilution
21	P4839-06	FG014809.D	15 Nov 2024 19:55	YP\AJ	Dilution

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111524

Review By	yogesh	Review On	11/15/2024 11:08:18 AM
Supervise By	Ankita	Supervise On	11/18/2024 10:48:08 AM
SubDirectory	FG111524	HP Acquire Method	HP Processing Method FG111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

22	P4839-07	FG014810.D	15 Nov 2024 20:23	YP\AJ	Dilution
23	P4839-08	FG014811.D	15 Nov 2024 20:51	YP\AJ	Ok
24	P4839-09	FG014812.D	15 Nov 2024 21:20	YP\AJ	Dilution
25	P4839-10	FG014813.D	15 Nov 2024 21:48	YP\AJ	Ok
26	I.BLK	FG014814.D	15 Nov 2024 22:17	YP\AJ	Ok
27	50 PPM TRPH STD	FG014815.D	15 Nov 2024 22:45	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111324

Review By	yogesh	Review On	11/13/2024 9:02:08 AM
Supervise By	Ankita	Supervise On	11/14/2024 11:06:20 AM
SubDirectory	FG111324	HP Acquire Method	HP Processing Method FG111324

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG014757.D	13 Nov 2024 08:37		YP\AJ	Ok
2	I.BLK		FG014758.D	13 Nov 2024 09:05		YP\AJ	Ok
3	100 TRPH STD		FG014759.D	13 Nov 2024 09:33		YP\AJ	Not Ok
4	50 TRPH STD		FG014760.D	13 Nov 2024 10:02		YP\AJ	Ok
5	20 TRPH STD		FG014761.D	13 Nov 2024 10:30		YP\AJ	Ok
6	10 TRPH STD		FG014762.D	13 Nov 2024 10:58		YP\AJ	Ok
7	5 TRPH STD		FG014763.D	13 Nov 2024 12:25		YP\AJ	Ok
8	100 TRPH STD		FG014764.D	13 Nov 2024 13:22		YP\AJ	Ok,M
9	FG111324ICV		FG014765.D	13 Nov 2024 14:00		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111524

Review By	yogesh	Review On	11/15/2024 11:08:18 AM
Supervise By	Ankita	Supervise On	11/18/2024 10:48:08 AM
SubDirectory	FG111524	HP Acquire Method	HP Processing Method FG111324

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966
CCC Internal Standard/PEM	PP23963
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FG014789.D	15 Nov 2024 09:28		YPIAJ	Ok
2	I.BLK		FG014790.D	15 Nov 2024 09:56		YPIAJ	Ok
3	50 PPM TRPH STD		FG014791.D	15 Nov 2024 10:24		YPIAJ	Ok
4	RT MARKER		FG014792.D	15 Nov 2024 10:56		YPIAJ	Ok
5	PB164989BL		FG014793.D	15 Nov 2024 11:24		YPIAJ	Ok
6	PB164989BS		FG014794.D	15 Nov 2024 11:53		YPIAJ	Ok
7	P4810-01		FG014795.D	15 Nov 2024 12:21		YPIAJ	Ok
8	P4810-01MS		FG014796.D	15 Nov 2024 12:49		YPIAJ	Ok,M
9	P4810-01MSD		FG014797.D	15 Nov 2024 13:18		YPIAJ	Ok,M
10	I.BLK		FG014798.D	15 Nov 2024 13:46		YPIAJ	Ok
11	50 PPM TRPH STD		FG014799.D	15 Nov 2024 14:14		YPIAJ	Ok
12	I.BLK		FG014800.D	15 Nov 2024 15:11		YPIAJ	Ok
13	50 PPM TRPH STD		FG014801.D	15 Nov 2024 15:39		YPIAJ	Ok
14	RT MARKER		FG014802.D	15 Nov 2024 16:36		YPIAJ	Ok
15	PB164995BL		FG014803.D	15 Nov 2024 17:04		YPIAJ	Ok
16	PB164995BS		FG014804.D	15 Nov 2024 17:33		YPIAJ	Ok
17	P4839-02		FG014805.D	15 Nov 2024 18:01	need 10x dilution	YPIAJ	Dilution
18	P4839-03		FG014806.D	15 Nov 2024 18:30	need 10x dilution	YPIAJ	Dilution

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG111524

Review By	yogesh	Review On	11/15/2024 11:08:18 AM
Supervise By	Ankita	Supervise On	11/18/2024 10:48:08 AM
SubDirectory	FG111524	HP Acquire Method	HP Processing Method FG111324
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC	PP23963		
Internal Standard/PEM	PP23962,PP23967		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P4839-04		FG014807.D	15 Nov 2024 18:58		YP\AJ	Ok
20	P4839-05		FG014808.D	15 Nov 2024 19:26	need 20x dilution	YP\AJ	Dilution
21	P4839-06		FG014809.D	15 Nov 2024 19:55	need 50x dilution	YP\AJ	Dilution
22	P4839-07		FG014810.D	15 Nov 2024 20:23	need 5x dilution	YP\AJ	Dilution
23	P4839-08		FG014811.D	15 Nov 2024 20:51		YP\AJ	Ok
24	P4839-09		FG014812.D	15 Nov 2024 21:20	need 10x dilution	YP\AJ	Dilution
25	P4839-10		FG014813.D	15 Nov 2024 21:48		YP\AJ	Ok
26	I.BLK		FG014814.D	15 Nov 2024 22:17		YP\AJ	Ok
27	50 PPM TRPH STD		FG014815.D	15 Nov 2024 22:45		YP\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/13/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:45
In Date: 11/12/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 11/13/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133408

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
P4810-01	WASTE	1	1.15	8.80	9.95	8.23	80.5	
P4810-02	VOC	2	1.15	8.82	9.97	8.65	85.0	
P4810-03	1	3	1.15	8.43	9.58	7.84	79.4	
P4810-04	2	4	1.16	8.80	9.96	8.41	82.4	
P4810-05	3	5	1.16	8.51	9.67	8.17	82.4	
P4810-06	4	6	1.15	8.82	9.97	8.46	82.9	
P4810-07	5	7	1.16	8.45	9.61	8.2	83.3	
P4820-01	CO-SIAC-20	8	1.18	8.42	9.6	9.41	97.7	
P4821-01	BP-F-24	9	1.19	8.57	9.76	8.77	88.4	
P4821-02	BP-F-24-EPH	10	1.15	8.52	9.67	8.62	87.7	
P4821-03	BP-F-24-VOC	11	1.12	8.76	9.88	8.83	88.0	
P4821-05	BP-F-2	12	1.16	8.51	9.67	8.7	88.6	
P4821-06	BP-F-2-EPH	13	1.15	8.81	9.96	9.28	92.3	
P4821-07	BP-F-2-VOC	14	1.12	8.75	9.87	8.77	87.4	
P4822-01	SOIL-1	18	1.16	8.48	9.64	9.14	94.1	
P4822-02	SOIL-1	19	1.15	8.50	9.65	9.00	92.4	
P4822-03	SOIL-2	20	1.18	8.57	9.75	9.05	91.8	
P4822-04	SOIL-2	21	1.15	8.74	9.89	8.99	89.7	
P4822-05	SOIL-3	22	1.13	8.39	9.52	8.89	92.5	
P4822-06	SOIL-3	23	1.16	8.69	9.85	9.1	91.4	
P4822-07	SOIL-4	24	1.17	8.50	9.67	9.12	93.5	
P4822-08	SOIL-4	25	1.14	8.62	9.76	9.15	92.9	
P4822-09	SOIL-5	26	1.11	8.77	9.88	8.91	88.9	
P4822-10	SOIL-5	27	1.16	8.63	9.79	9.06	91.5	
P4822-11	SOIL-6	28	1.17	8.60	9.77	8.71	87.7	
P4822-12	SOIL-6	29	1.13	8.70	9.83	9.07	91.3	
P4823-01	MH-4	15	1.15	8.64	9.79	8.86	89.2	
P4823-02	MH-4-EPH	16	1.17	8.54	9.71	8.88	90.3	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/13/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:45
In Date: 11/12/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 11/13/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133408

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
P4823-03	MH-4-VOC	17	1.17	8.58	9.75	8.72	88.0	

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

WORKLIST(Hardcopy Internal Chain)

JB133408

WorkList Name : %1-111224

WorkList ID : 185348

Department : Wet-Chemistry

Date : 11-12-2024 08:02:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4810-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	L11	11/11/2024	Chemtech -SO
P4810-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	L11	11/11/2024	Chemtech -SO
P4810-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	L11	11/11/2024	Chemtech -SO
P4810-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	L11	11/11/2024	Chemtech -SO
P4810-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	L11	11/11/2024	Chemtech -SO
P4810-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	L11	11/11/2024	Chemtech -SO
P4810-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	L11	11/11/2024	Chemtech -SO
P4820-01	CO-SIAC-20	Solid	Percent Solids	Cool 4 deg C	SCIA01	L11	11/11/2024	Chemtech -SO
P4821-01	BP-F-24	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/12/2024	Chemtech -SO
P4821-02	BP-F-24-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/12/2024	Chemtech -SO
P4821-03	BP-F-24-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/12/2024	Chemtech -SO
P4821-05	BP-F-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/12/2024	Chemtech -SO
P4821-06	BP-F-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/12/2024	Chemtech -SO
P4821-07	BP-F-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/12/2024	Chemtech -SO
P4822-01	SOIL-1	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-02	SOIL-1	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-03	SOIL-2	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-04	SOIL-2	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-05	SOIL-3	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-06	SOIL-3	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-07	SOIL-4	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO

Date/Time 11-12-24 15:35

Raw Sample Received by: JB WLC

Raw Sample Relinquished by: JB WLC

Date/Time 11-12-24

Raw Sample Received by: JB WLC

Raw Sample Relinquished by: JB WLC

WORKLIST(Hardcopy Internal Chain)

1333408

WorkList Name : %1-111224

WorkList ID : 185348

Department : Wet-Chemistry

Date : 11-12-2024 08:02:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4822-08	SOIL-4	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-09	SOIL-5	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-10	SOIL-5	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-11	SOIL-6	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-12	SOIL-6	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4823-01	MH-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/12/2024	Chemtech -SO
P4823-02	MH-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/12/2024	Chemtech -SO
P4823-03	MH-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/12/2024	Chemtech -SO

Date/Time 11-12-24 15:35
 Raw Sample Received by: 80 wov
 Raw Sample Relinquished by: BS CETA- (can)

Date/Time 11-12-24 17:00
 Raw Sample Received by: BS CETA- (can)
 Raw Sample Relinquished by: 80 wov

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/14/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 11/13/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 11/14/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133426

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
P4810-08	6	12	1.15	8.80	9.95	8.53	83.9	
P4824-01	T-20	1	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4824-02	T-20-E2	2	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4825-01	STOCK-PILE	3	1.15	8.46	9.61	8.73	89.6	
P4825-02	STOCK-PILE-E2	4	1.16	8.70	9.86	8.96	89.7	
P4826-01	GAS-BUR-2005	5	1.00	1.00	2.00	2.00	100.0	debris
P4833-01	MH-731	6	1.15	8.77	9.92	8.72	86.3	
P4833-02	MH-731-EPH	7	1.17	8.71	9.88	8.66	86.0	
P4833-03	MH-731-VOC	8	1.15	8.82	9.97	8.81	86.8	
P4833-05	TP-2	9	1.15	8.40	9.55	9.06	94.2	
P4833-06	TP-2-EPH	10	1.17	8.50	9.67	9.11	93.4	
P4833-07	TP-2-VOC	11	1.16	8.50	9.66	9.17	94.2	
P4834-03	SLP-1-STONE	13	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4834-04	SLP-1-STONE-E2	14	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4835-03	345-2-STONE	15	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4835-04	345-2-STONE-E2	16	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4836-03	T3-STONE	17	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4836-04	T3-STONE-E2	18	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4837-03	3TRK-STONE	19	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4837-04	3TRK-STONE-E2	20	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4838-03	T1-STONE	21	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4838-04	T1-STONE-E2	22	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids

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

WORKLIST(Hardcopy Internal Chain)

W 133426

WorkList Name : %1-111324

WorkList ID : 185398

Department : Wet-Chemistry

Date : 11-13-2024 09:55:03

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4824-01	T-20	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/13/2024	Chemtech -SO
P4824-02	T-20-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/13/2024	Chemtech -SO
P4825-01	STOCK-PILE	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/13/2024	Chemtech -SO
P4825-02	STOCK-PILE-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/13/2024	Chemtech -SO
P4826-01	GAS-BUR-2005	Solid	Percent Solids	Cool 4 deg C	PSEG03	L23	11/13/2024	Chemtech -SO
P4833-01	MH-731	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/13/2024	Chemtech -SO
P4833-02	MH-731-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/13/2024	Chemtech -SO
P4833-03	MH-731-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/13/2024	Chemtech -SO
P4833-05	TP-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/13/2024	Chemtech -SO
P4833-06	TP-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/13/2024	Chemtech -SO
P4833-07	TP-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/13/2024	Chemtech -SO
P4834-03	SLP-1-STONE	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/13/2024	Chemtech -SO
P4834-04	SLP-1-STONE-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/13/2024	Chemtech -SO
P4835-03	345-2-STONE	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/13/2024	Chemtech -SO
P4835-04	345-2-STONE-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/13/2024	Chemtech -SO
P4836-03	T3-STONE	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/13/2024	Chemtech -SO
P4836-04	T3-STONE-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/13/2024	Chemtech -SO
P4837-03	3TRK-STONE	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/13/2024	Chemtech -SO
P4837-04	3TRK-STONE-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/13/2024	Chemtech -SO
P4838-03	T1-STONE	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/13/2024	Chemtech -SO
P4838-04	T1-STONE-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/13/2024	Chemtech -SO

Date/Time 11-13-24 15:40

Raw Sample Received by: SO WCC

Raw Sample Relinquished by: JT CSM

Date/Time 11-13-24

Raw Sample Received by: JT CSM

Raw Sample Relinquished by: SO WCC

17:10

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Welgh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 11/15/2024

Extraction Start Time : 08:20

Extraction End Date : 11/15/2024

Extraction End Time : 11:15

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	PP23935
Spike Sol 1	1.0ML	20 PPM	PP23454
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
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	E3823
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/15/24	RP (Ext Lab)	7-P. Pelt + PCB
11:20	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/15/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164989BL	PB164989BL	TPH GC	30.03	N/A	ritesh	Evelyn	1			U1-1
PB164989BS	PB164989BS	TPH GC	30.01	N/A	ritesh	Evelyn	1			2
P4810-01	WASTE	TPH GC	30.09	N/A	ritesh	Evelyn	1			3
P4810-01MS	WASTEMS	TPH GC	30.06	N/A	ritesh	Evelyn	1			4
P4810-01MS D	WASTEMSD	TPH GC	30.04	N/A	ritesh	Evelyn	1			5

* Extracts relinquished on the same date as received.

11/15/24

8:20
164469

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4810T

WorkList ID : 185458

Department : Extracation

Date : 11-15-2024 08:14:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4810-01	WASTE	Solid	TPH GC	Cool 4 deg C	SCIA01	L11	11/11/2024	8015D

Date/Time 11/15/24 8:17
Raw Sample Received by: By Jeff Lee
Raw Sample Relinquished by: af sm

Date/Time 11/15/24 8:35
Raw Sample Received by: af sm
Raw Sample Relinquished by: RS (24-101)

Prep Standard - Chemical Standard Summary

Order ID : P4810

Test : TPH GC

Prepbatch ID : PB164989,

Sequence ID/Qc Batch ID: FG111524,

Standard ID :

EP2538,EP2551,PP23454,PP23935,PP23961,PP23962,PP23963,PP23964,PP23965,PP23966,PP23967,

Chemical ID :

E2865,E3551,E3759,E3793,E3794,E3822,E3823,E3828,P 11950,P11958,P11959,P11960,P13213,P13218,P13219,P13492,P13493,P13494,P13495,

Extractions STANDARD PREPARATION LOG

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

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2551	10/18/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 10/18/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

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

FROM 1.00000ml of P11950 + 1.00000ml of P11960 + 48.00000ml of E3759 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
147	20 PPM DRO Surrogate Spike Solution	PP23935	11/01/2024	04/23/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/04/2024

FROM 1.00000ml of P13492 + 1.00000ml of P13493 + 1.00000ml of P13494 + 1.00000ml of P13495 + 196.00000ml of E3822 = Final Quantity: 200.000 ml



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

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

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

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

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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
435	50 PPM ICC DRO STD (Restek)	PP23963	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
11/13/2024								

FROM 0.50000ml of E3828 + 0.50000ml of PP23961 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
437	20 PPM ICC DRO STD (Restek)	PP23964	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
11/13/2024								

FROM 0.80000ml of E3828 + 0.20000ml of PP23961 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
438	10 PPM ICC DRO STD (Restek)	PP23965	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/13/2024

FROM 0.90000ml of E3828 + 0.10000ml of PP23961 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
439	5 PPM ICC DRO STD (Restek)	PP23966	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/13/2024

FROM 0.90000ml of E3828 + 0.10000ml of PP23963 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3797	50 PPM DRO ICV STD (CPI)	PP23967	11/13/2024	02/14/2025	Yogesh Patel	None	None	Ankita Jodhani
11/13/2024								
<u>FROM</u>	0.80000ml of E3828 + 0.50000ml of PP23962 = Final Quantity: 1.000 ml							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	12/31/2024	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

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

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

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24I2662006	04/23/2025	10/24/2024 / Rajesh	10/24/2024 / Rajesh	E3822

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24I2662006	05/03/2025	11/03/2024 / Rajesh	10/24/2024 / Rajesh	E3823

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	05/13/2025	11/13/2024 / yogesh	07/11/2022 / Yogesh	P11958

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	05/13/2025	11/13/2024 / yogesh	07/11/2022 / Yogesh	P11959

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/13/2025	11/13/2024 / yogesh	01/17/2024 / Ankita	P13213

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110400-05-01 / TRPH Standard (C8-C40), 500 mg/L, 1 ml	514983	02/14/2025	08/14/2024 / yogesh	01/31/2024 / Ankita	P13218

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110400-05-01 / TRPH Standard (C8-C40), 500 mg/L, 1 ml	514983	05/13/2025	11/13/2024 / yogesh	01/31/2024 / Ankita	P13219

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/01/2025	11/01/2024 / yogesh	07/24/2024 / yogesh	P13492

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/01/2025	11/01/2024 / yogesh	07/24/2024 / yogesh	P13493

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/01/2025	11/01/2024 / yogesh	07/24/2024 / yogesh	P13494

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	05/01/2025	11/01/2024 / yogesh	07/24/2024 / yogesh	P13495

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

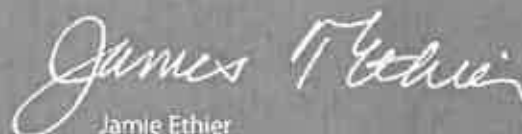
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

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

E 2865


Jamie Ethier
Vice President Global Quality

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

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 **E 3551**

RC-02-01, Ed. 3

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



Material No.: 9266-A4
Batch No.: 24D1962005
Manufactured Date: 2024-03-16
Expiration Date: 2025-06-15
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	8
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 0.01 %

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

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

E 3759

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
CMOS

avantor™



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

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.5 %	99.8 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.5	0.1
Water (H ₂ O)	≤ 0.5 %	0.1 %
Solubility in H ₂ O	Passes Test	Passes Test
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.05 ppm
Trace Impurities – Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities – Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 25.0 ppb	3.6 ppb
Trace Impurities – Chromium (Cr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Trace Impurities – Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Recd. by RP on 9/11/24

E3793

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

>>> Continued on page 3 >>>

Acetone
CMOS



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

Test	Specification	Result
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For Microelectronic Use
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

Michelle Bales
Sr. Manager, Quality Assurance

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



Material No.: 9266-A4

Batch No.: 24I2662006

Manufactured Date: 2024-08-29

Expiration Date: 2025-11-28

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	$< 5 \text{ ppm}$
Water (by KF, coulometric)	$\leq 0.02 \%$	$< 0.01 \%$

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

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3822

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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

 **avantors**TM



Material No.: 9266-A4

Batch No.: 24I2662006

Manufactured Date: 2024-08-29

Expiration Date: 2025-11-28

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3823



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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

 **avantor**™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	$< 5 \text{ ppm}$
Water (by KF, coulometric)	$\leq 0.02 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC



CERTIFIED REFERENCE MATERIAL

110 Benner Circle

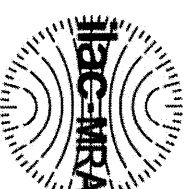
Bellefonte, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31266

Lot No.: A0186840

Description : Florida TRPH Standard

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

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2029

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Octane (C8) CAS # 111-65-9 Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) CAS # 124-18-5 Purity 99%	503.0 µg/mL	+/- 2.9877 µg/mL +/- 12.4968 µg/mL +/- 14.9795 µg/mL	Gravimetric Unstressed Stressed
3	n-Dodecane (C12) CAS # 112-40-3 Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed
4	n-Tetradecane (C14) CAS # 629-59-4 Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
5	n-Hexadecane (C16) CAS # 544-76-3 Purity 98%	504.7 µg/mL	+/- 2.9978 µg/mL +/- 12.5390 µg/mL +/- 15.0301 µg/mL	Gravimetric Unstressed Stressed
6	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	504.4 µg/mL	+/- 2.9960 µg/mL +/- 12.5316 µg/mL +/- 15.0212 µg/mL	Gravimetric Unstressed Stressed
7	n-Eicosane (C20) CAS # 112-95-8 Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed

P11948 } 7.8
P11962 } 07/11/16

8	n-Docosane (C22) CAS # 629-97-0 Purity 99%	(Lot MKCL8918)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	503.5 µg/mL	+/- 2.9906 +/- 12.5092 +/- 14.9944	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Hexacosane (C26) CAS # 630-01-3 Purity 99%	(Lot MKCD4540)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Octacosane (C28) CAS # 630-02-4 Purity 99%	(Lot BCCG0084)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Triacontane (C30) CAS # 638-68-6 Purity 99%	(Lot MKCN9321)	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Dotriacontane (C32) CAS # 544-85-4 Purity 99%	(Lot BCBW0661)	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Tetratriacontane (C34) CAS # 14167-59-0 Purity 99%	(Lot OML4N)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Hexatriacontane (C36) CAS # 630-06-8 Purity 99%	(Lot U25B014)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Octatriacontane (C38) CAS # 7194-85-6 Purity 97%	(Lot 0000127235)	504.4 µg/mL	+/- 2.9960 +/- 12.5316 +/- 15.0212	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetracontane (C40) CAS # 4181-95-7 Purity 98%	(Lot PADGI)	504.7 µg/mL	+/- 2.9978 +/- 12.5390 +/- 15.0301	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

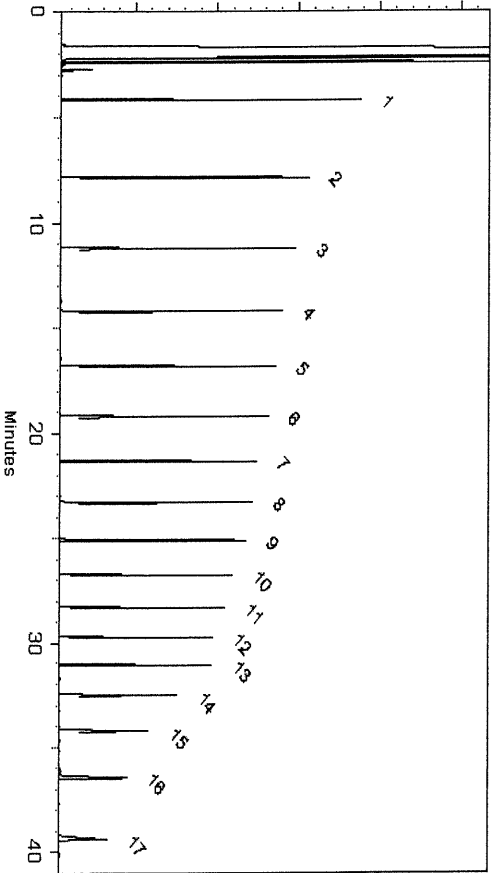
250°C

Det. Temp:

330°C

Det. Type:

FID



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

Brittany Federinko

Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-US for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-US.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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



CERTIFIED REFERENCE MATERIAL

110 Benner Circle

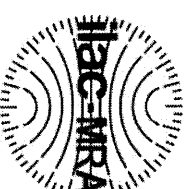
Bellefonte, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31266

Lot No.: A0186840

Description : Florida TRPH Standard

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

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2029

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Octane (C8) CAS # 111-65-9 Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) CAS # 124-18-5 Purity 99%	503.0 µg/mL	+/- 2.9877 µg/mL +/- 12.4968 µg/mL +/- 14.9795 µg/mL	Gravimetric Unstressed Stressed
3	n-Dodecane (C12) CAS # 112-40-3 Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed
4	n-Tetradecane (C14) CAS # 629-59-4 Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
5	n-Hexadecane (C16) CAS # 544-76-3 Purity 98%	504.7 µg/mL	+/- 2.9978 µg/mL +/- 12.5390 µg/mL +/- 15.0301 µg/mL	Gravimetric Unstressed Stressed
6	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	504.4 µg/mL	+/- 2.9960 µg/mL +/- 12.5316 µg/mL +/- 15.0212 µg/mL	Gravimetric Unstressed Stressed
7	n-Eicosane (C20) CAS # 112-95-8 Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed

P11948 } 7.8
P11962 } 07/11/16

8	n-Docosane (C22) CAS # 629-97-0 Purity 99%	(Lot MKCL8918)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	503.5 µg/mL	+/- 2.9906 +/- 12.5092 +/- 14.9944	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Hexacosane (C26) CAS # 630-01-3 Purity 99%	(Lot MKCD4540)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Octacosane (C28) CAS # 630-02-4 Purity 99%	(Lot BCCG0084)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Triacontane (C30) CAS # 638-68-6 Purity 99%	(Lot MKCN9321)	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Dotriacontane (C32) CAS # 544-85-4 Purity 99%	(Lot BCBW0661)	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Tetratriacontane (C34) CAS # 14167-59-0 Purity 99%	(Lot OML4N)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Hexatriacontane (C36) CAS # 630-06-8 Purity 99%	(Lot U25B014)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Octatriacontane (C38) CAS # 7194-85-6 Purity 97%	(Lot 0000127235)	504.4 µg/mL	+/- 2.9960 +/- 12.5316 +/- 15.0212	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetracontane (C40) CAS # 4181-95-7 Purity 98%	(Lot PADGI)	504.7 µg/mL	+/- 2.9978 +/- 12.5390 +/- 15.0301	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

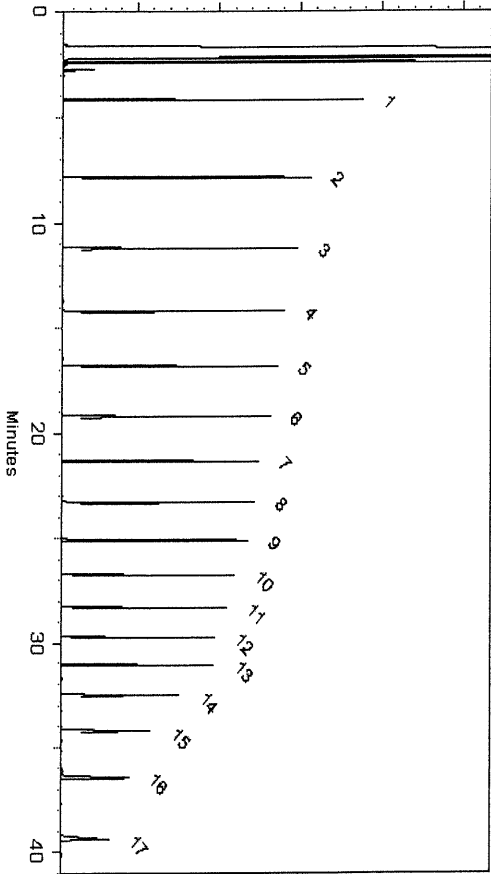
250°C

Det. Temp:

330°C

Det. Type:

FID



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

Brittany Federinko

Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-US for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-US.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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



CERTIFIED REFERENCE MATERIAL

110 Benner Circle

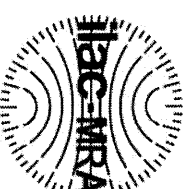
Bellefonte, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31266

Lot No.: A0186840

Description : Florida TRPH Standard

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

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2029

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Octane (C8) CAS # 111-65-9 Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) CAS # 124-18-5 Purity 99%	503.0 µg/mL	+/- 2.9877 µg/mL +/- 12.4968 µg/mL +/- 14.9795 µg/mL	Gravimetric Unstressed Stressed
3	n-Dodecane (C12) CAS # 112-40-3 Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed
4	n-Tetradecane (C14) CAS # 629-59-4 Purity 99%	505.0 µg/mL	+/- 2.9995 µg/mL +/- 12.5465 µg/mL +/- 15.0390 µg/mL	Gravimetric Unstressed Stressed
5	n-Hexadecane (C16) CAS # 544-76-3 Purity 98%	504.7 µg/mL	+/- 2.9978 µg/mL +/- 12.5390 µg/mL +/- 15.0301 µg/mL	Gravimetric Unstressed Stressed
6	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	504.4 µg/mL	+/- 2.9960 µg/mL +/- 12.5316 µg/mL +/- 15.0212 µg/mL	Gravimetric Unstressed Stressed
7	n-Eicosane (C20) CAS # 112-95-8 Purity 99%	503.5 µg/mL	+/- 2.9906 µg/mL +/- 12.5092 µg/mL +/- 14.9944 µg/mL	Gravimetric Unstressed Stressed

P11948 } 7.8
P11962 } 07/11/16

8	n-Docosane (C22) CAS # 629-97-0 Purity 99%	(Lot MKCL8918)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	503.5 µg/mL	+/- 2.9906 +/- 12.5092 +/- 14.9944	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Hexacosane (C26) CAS # 630-01-3 Purity 99%	(Lot MKCD4540)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Octacosane (C28) CAS # 630-02-4 Purity 99%	(Lot BCCG0084)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Triacontane (C30) CAS # 638-68-6 Purity 99%	(Lot MKCN9321)	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Dotriacontane (C32) CAS # 544-85-4 Purity 99%	(Lot BCBW0661)	505.0 µg/mL	+/- 2.9995 +/- 12.5465 +/- 15.0390	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Tetratriacontane (C34) CAS # 14167-59-0 Purity 99%	(Lot OML4N)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Hexatriacontane (C36) CAS # 630-06-8 Purity 99%	(Lot U25B014)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Octatriacontane (C38) CAS # 7194-85-6 Purity 97%	(Lot 0000127235)	504.4 µg/mL	+/- 2.9960 +/- 12.5316 +/- 15.0212	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetracontane (C40) CAS # 4181-95-7 Purity 98%	(Lot PADGI)	504.7 µg/mL	+/- 2.9978 +/- 12.5390 +/- 15.0301	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

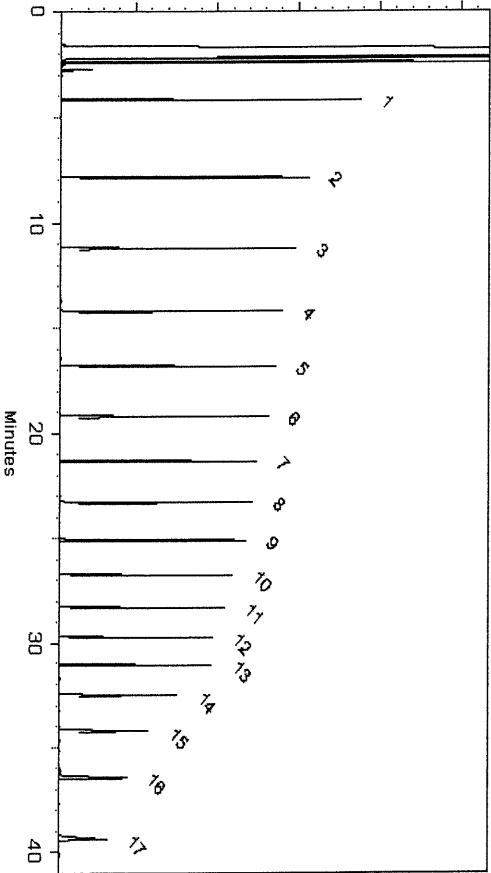
250°C

Det. Temp:

330°C

Det. Type:

FID



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

Brittany Federinko

Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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

Manufacturing Notes:

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

Handling Notes:

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CERTIFIED REFERENCE MATERIAL

110 Benner Circle

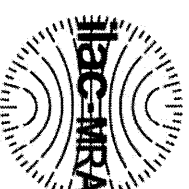
Bellefonte, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31266

Lot No.: A0186840

Description : Florida TRPH Standard

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

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2029

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
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2	n-Decane (C10) CAS # 124-18-5 Purity 99%	503.0 µg/mL	+/- 2.9877 µg/mL +/- 12.4968 µg/mL +/- 14.9795 µg/mL	Gravimetric Unstressed Stressed
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P11948 } 7.8
P11962 } 07/11/16

8	n-Docosane (C22) CAS # 629-97-0 Purity 99%	(Lot MKCL8918)	504.5 µg/mL	+/- 2.9966 +/- 12.5340 +/- 15.0241	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	503.5 µg/mL	+/- 2.9906 +/- 12.5092 +/- 14.9944	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Hexacosane (C26) CAS # 630-01-3 Purity 99%	(Lot MKCD4540)	504.0 µg/mL	+/- 2.9936 +/- 12.5216 +/- 15.0093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
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Solvent: Hexane
CAS # 110-54-3
Purity 99%

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

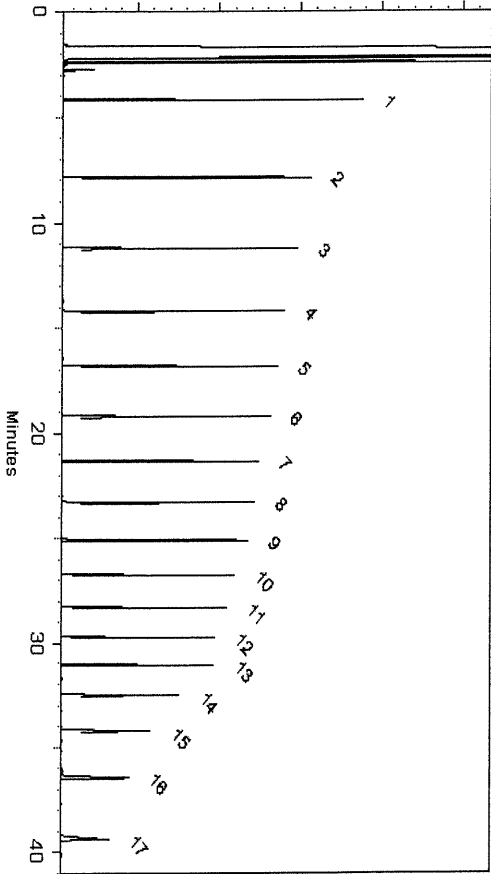
250°C

Det. Temp:

330°C

Det. Type:

FID



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Brittany Federinko

Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

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

Manufacturing Notes:

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

Handling Notes:

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CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

72072
101122
n-Tetracosane-d50

Solvent(s):
Methylene chloride

Lot#
105345

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

101132
Ambient (20 °C)
1000
6UTB

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 200.0

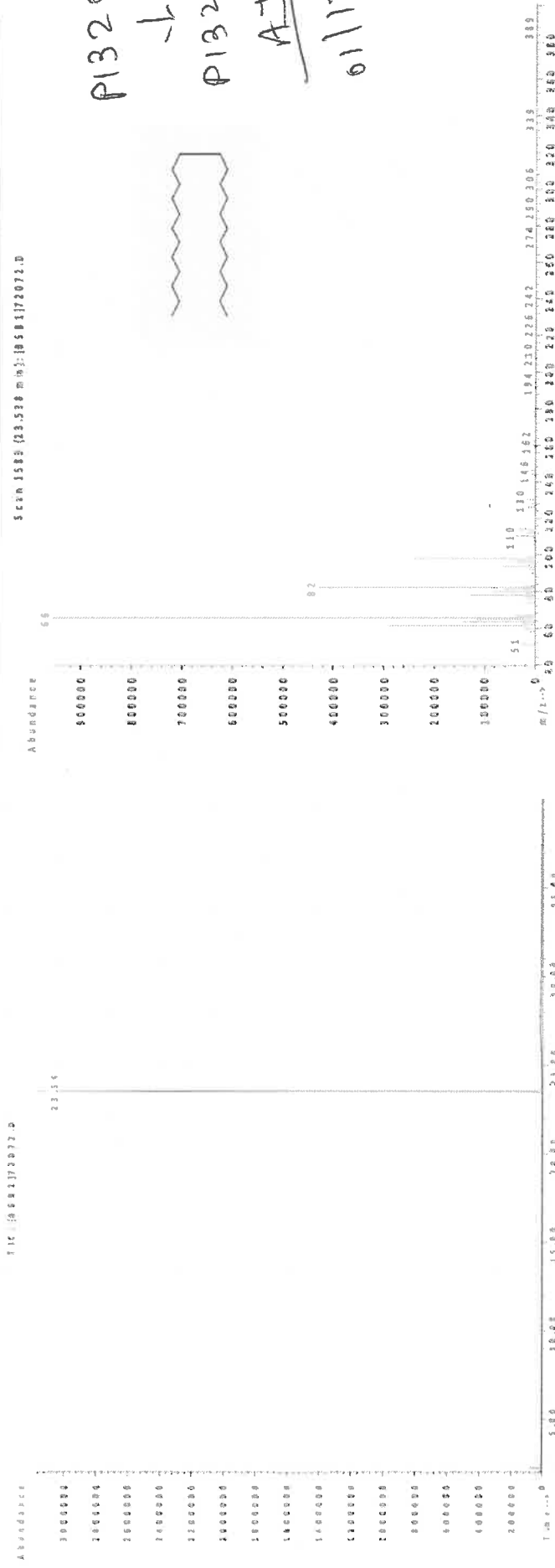
Formulated By:	Prashant Chauhan	101122	DATE
Reviewed By:	Pedro L. Renteria	101122	DATE

SDS Information

Expanded Uncertainty (Solvent Safety Info. On Attached pg.)
Actual Conc (µg/mL) (+/-) (µg/mL) CAS# OSHA PEL (TWA) LD50

Compound	1. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A	N/A
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Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



5580 Skyline Blvd
Santa Rosa, CA 95403

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

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

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.: Storage:

Z-110400-05 514983 ≤ -10 Degrees C

Solvent:

Hexane

Exp. Date:

11/20/2028

Description:

TRPH Standard (C8-C40), 500 mg/L, 1 ml

-01

Compound

CAS No.

Purity (%)

Compound Lot No.

Concentration, mg/L

decane (C10)

124-18-5

99.7

415.7.2P

498.5 ± 6.92

docosane (C22)

629-97-0

98.8

420.9.1P

499.4 ± 6.93

dodecane (C12)

112-40-3

99.7

416.9.3P

502 ± 6.97

dotriacontane (C32)

544-85-4

97

425.9.2.2P

499.6 ± 8.53

eicosane (C20)

112-95-8

99.8

419.7.1P

501 ± 6.95

hexacosane (C26)

630-01-3

99.3

422.7.2.1P

501 ± 6.95

hexatriacontane (C36)

630-06-8

98

427.29.1.1P

499.3 ± 8.53

n-hexadecane (C16)

544-76-3

99.45

368.27.1.1P

498.7 ± 6.91

octacosane (C28)

630-02-4

99.1

423.24.1P

500.5 ± 6.95

n-octadecane (C18)

593-45-3

99.5

418.29.1P

499.5 ± 6.92

octane (C8)

111-65-9

99.4

385.7.2.1P

498.5 ± 6.92

octatriacontane (C38)

7194-85-6

95

428.1.2P

500.2 ± 6.94

tetracontane (C40)

4181-95-7

97

429.7.2P

499.6 ± 6.93

n-tetracosane (C24)

646-31-1

99.5

421.7.1P

499.5 ± 6.93

n-tetradecane (C14)

629-59-4

99.3

417.9.1P

500 ± 6.94

tetatriacontane (C34)

14167-59-0

96.1

426.7.2.2P

499.7 ± 8.53

triacontane (C30)

638-68-6

99.5

424.7.1.1P

500 ± 6.94

Let the standard warm to room temperature and sonicate before opening.

P 13215

↓

P 13224

AJ
01131124

*Not a certified value

Andrea Schaible

Andrea Schaible
Chemist

Certified By: _____

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



5580 Skyline Blvd
Santa Rosa, CA 95403

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

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

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.: Storage:

Z-110400-05 514983 ≤ -10 Degrees C

Solvent:

Hexane

Exp. Date:

11/20/2028

Description:

TRPH Standard (C8-C40), 500 mg/L, 1 ml

-01

Compound

CAS No.

Purity (%)

Compound Lot No.

Concentration, mg/L

decane (C10)

124-18-5

99.7

415.7.2P

498.5 ± 6.92

docosane (C22)

629-97-0

98.8

420.9.1P

499.4 ± 6.93

dodecane (C12)

112-40-3

99.7

416.9.3P

502 ± 6.97

dotriacontane (C32)

544-85-4

97

425.9.2.2P

499.6 ± 8.53

eicosane (C20)

112-95-8

99.8

419.7.1P

501 ± 6.95

hexacosane (C26)

630-01-3

99.3

422.7.2.1P

501 ± 6.95

hexatriacontane (C36)

630-06-8

98

427.29.1.1P

499.3 ± 8.53

n-hexadecane (C16)

544-76-3

99.45

368.27.1.1P

498.7 ± 6.91

octacosane (C28)

630-02-4

99.1

423.24.1P

500.5 ± 6.95

n-octadecane (C18)

593-45-3

99.5

418.29.1P

499.5 ± 6.92

octane (C8)

111-65-9

99.4

385.7.2.1P

498.5 ± 6.92

octatriacontane (C38)

7194-85-6

95

428.1.2P

500.2 ± 6.94

tetracontane (C40)

4181-95-7

97

429.7.2P

499.6 ± 6.93

n-tetracosane (C24)

646-31-1

99.5

421.7.1P

499.5 ± 6.93

n-tetradecane (C14)

629-59-4

99.3

417.9.1P

500 ± 6.94

tetatriacontane (C34)

14167-59-0

96.1

426.7.2.2P

499.7 ± 8.53

triacontane (C30)

638-68-6

99.5

424.7.1.1P

500 ± 6.94

Let the standard warm to room temperature and sonicate before opening.

P13215

↓

P13224

AJ
01131124

*Not a certified value

Andrea Schaible

Andrea Schaible
Chemist

Certified By: _____

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: UCRM is the expanded uncertainty which utilizes a $K = 2$ (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

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

Page 1 of 2



Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scope: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life 070716

Part Number: 10009R
Lot Number: 070716
Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070716
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#: 5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

Formulated By: Paul Barron
Reviewed By: Pedro L. Rentes

070716
070716

Weight(s) shown below were combined and diluted to (mL): 500.0

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty (%)	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	N/A	or-rat 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	N/A	or-rat 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A	N/A
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A	N/A

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"

Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070716-GC/MS", Method "GC-MS".
Analyzed using Method "GC-MS".

Comments:
GC-MS Analysis by Melissa Siciric
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 0.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) = 300 mL, Oven Temp 1 = 50°C (1 min).
Rise = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes, Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = aDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 4

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Qualitative Quantitative

Printed: 5/8/2019, 12:55:50 PM

Part # 10009R Lot # 041219 1 of 2

Formulator
Reviewer

Actual
Concentration

Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

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

Solvent(s):
Methylene chloride
Lot#
105345

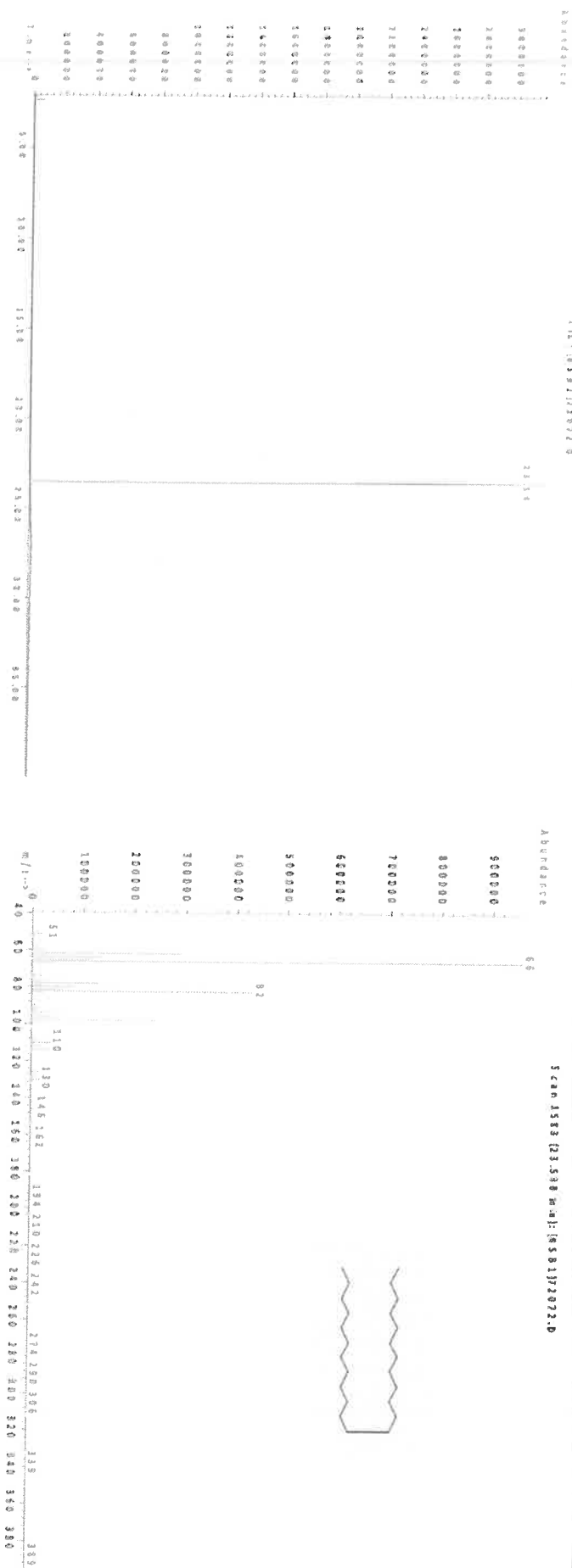
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

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

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	LD50
1. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: UCRM is the expanded uncertainty which utilizes a $K = 2$ (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

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

Page 1 of 2



Absolute Standards, Inc. • 44 Rossotto Drive • Hamden, CT 06514
Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scope: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life 070716

Part Number: 10009R
Lot Number: 070716
Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070716
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#: 5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

Formulated By: Paul Barron
Reviewed By: Pedro L. Rentes

070716
070716

Weight(s) shown below were combined and diluted to (mL): 500.0

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty (%)	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	MSDS Information (Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	N/A	or-nr 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	N/A	or-nr 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	N/A	or-nr 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A	N/A
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A	N/A

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"
Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070716-GC/MS", Method "GC-MS".
Analyzed using Method "GC-MS".

Comments:
GC-MS Analysis by Melissa Siciric
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 0.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) = 300 mL, Oven Temp 1 = 50°C (1 min).
Rise = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes, Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = sData Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 4

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	8.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Printed: 5/8/2019, 12:55:50 PM

Formulator
Reviewer

Actual
Concentration

Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

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

Solvent(s):
Methylene chloride
Lot#
105345

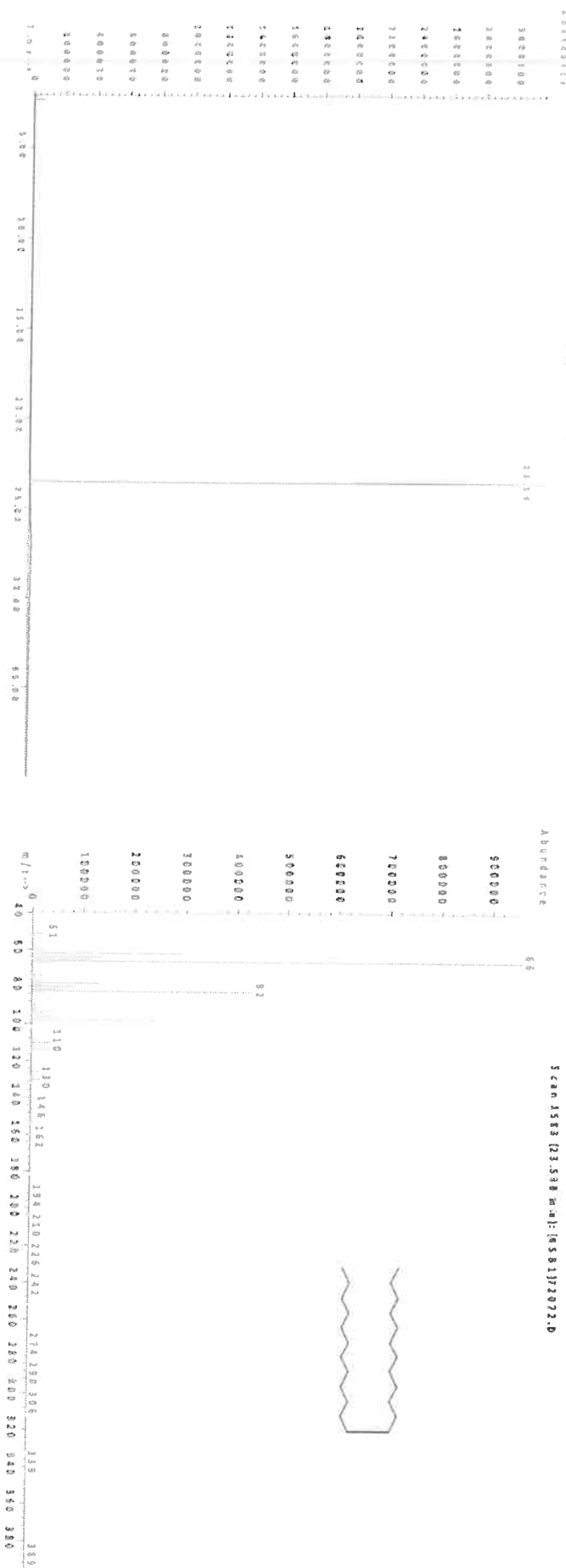
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

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

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	LD50
1. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1996).

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: UCRM is the expanded uncertainty which utilizes a $K = 2$ (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

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

Page 1 of 2



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Voice: 800-368-1131 • Fax: 800-410-2577 • eMail: StephenArpie@AbsoluteStandards.com
Document Identification: Certificate of Analysis Rev 14, Date Issued: 05/30/2019



ABSOLUTE STANDARDS, INC.

ISO - 17034



Understanding the Certified Weight Report



Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ISO 17034 Accredited
Scope: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070721
Expiration Date:
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 4000
NIST Test ID#: 822-275872-11
Weight(s) shown below were combined and diluted to (mL): 500.0

Solvent(s): Methylene chloride
Lot# 78782

Formulated By: Paul Barron
Reviewed By: Pedro L. Rentes

070716
070716

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

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty (%)	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	223	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	or-rat 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	or-rat 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04136	4000.8	15.4	1517-25-2	N/A	N/A
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04159	4001.3	15.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04156	4001.2	15.4	1503-58-3	N/A	N/A

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"
Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070716-GC/MS", Method "GC-MS".
Analyzed using Method "GC-MS".

Comments:
GC-MS Analysis by Melissa Siciric
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 0.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) = 300 mL, Oven Temp 1 = 50°C (1 min).
Rise = 10°C/min, Oven Temp 2 = 300°C (14 min), Total Run Time = 40 Minutes, Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = sData Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 4

Peak No.	Name	FID RT (min)
1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

Printed: 5/8/2019, 12:55:50 PM

Formulator
Reviewer

Actual
Concentration

Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



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





CERTIFIED WEIGHT REPORT

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

Solvent(s):
Methylene chloride
Lot#
105345

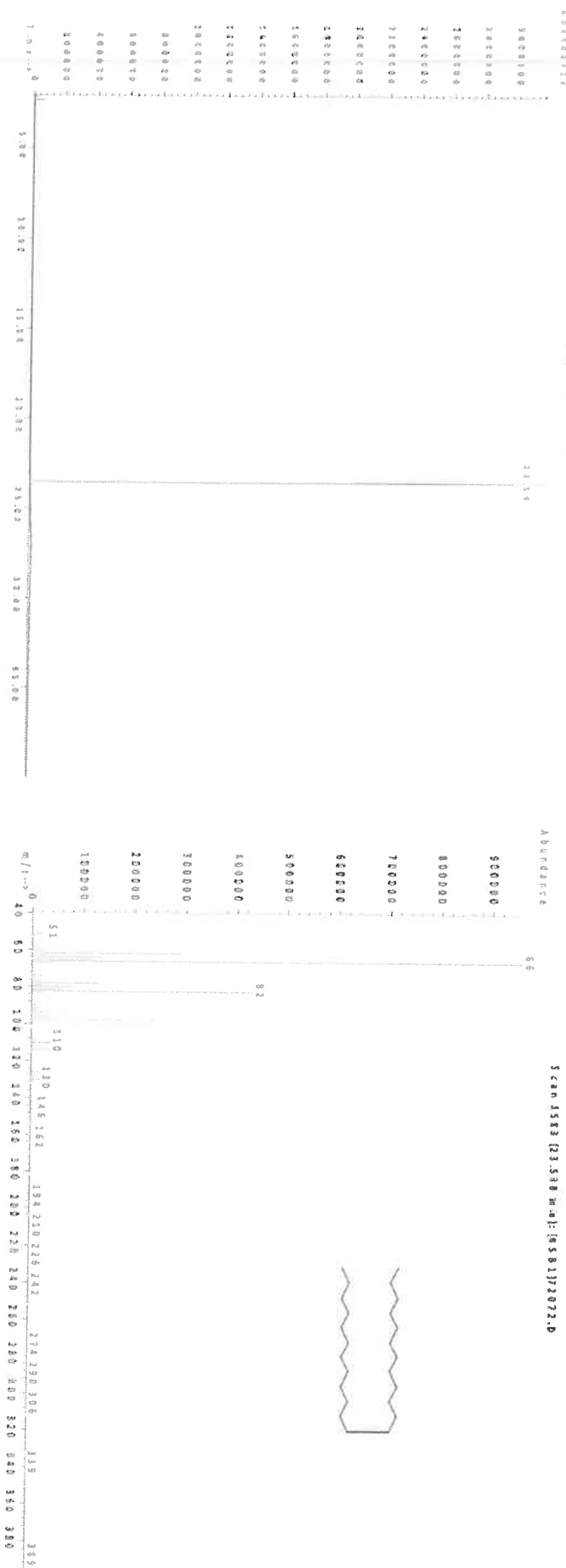
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

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

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	LD50
1. n-Tetracosane-d50	2072	PR-26606	1000	98.7	0.2	99.0	0.20471	0.20482	1000.6	4.1	16416-32-3	N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1996).

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

Conformance: The "Certificate of Analysis" is applicable for CRM's, fulfilling the requirements in the current version of: ISO 17034.

Health & Safety: See the attached SDS & Certified Weight Report before use.

Intended Use: This Certified Reference Material (CRM) is intended primarily for use in the characterization of unknowns and the establishment of analyzer or instrument response factors by qualified personnel. Typical instrumental organic assays include: GC & LC, and inorganic assays include: ICP & AA. This product is for laboratory use only.

Characterization Values: In production, gravimetric/volumetric readings are certified to be within $\pm 0.5\%$ of the stated value & are valid between 18 °C & 30 °C. The measured characterization of uncertainty can be found on the Certified Weight Report. All product weighings are performed on an analytical balance that is calibrated to NIST Traceable standard weights & certified by the manufacturer. The volumetric glassware used is Class "A" type & conforms to ASTM E-288 unless otherwise stated. The solvents & compounds used are of the highest practical purity & typically meet or exceed ACS Reagent Grade & ACS Standards Grade specifications. The expanded uncertainty field on Certified Wt. Report represents CRM uncertainty as described in ISO 17034.

Homogeneity: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Verification: Uncertainties that are due to the analytical procedure(s) are within $\pm 5\%$ unless specifically stated on the Certified Wt. Report.

Stability: Uncertainties for short-term stability are determined in accordance with ISO 17034. Long-term stability is determined in accordance with ISO 17034. The shelf life is limited by the stated expiration for each product. Expiration dates and additional technical information can be found on the Certified Weight Report and on the product label.

Uncertainty: UCRM is the expanded uncertainty which utilizes a $K = 2$ (coverage factor of 2), in accordance with ISO 17034 as listed above (Characterization, Homogeneity, Verification, and Stability).

Purity & Identity: Organic solutions are typically formulated from neat materials whose purity & identity have been characterized by GC-MSD & LC-PDA techniques with comparison to a NIST Traceable library of mass spectra when available. Additional characterization techniques may include but are not limited to: refractive index measurements of liquids, melting point measurements of solids, & GC-FID, ECD, PID, ELCD, LC-PDA measurements for purity. Inorganic solutions & neats are typically formulated from materials whose purity & identity have been characterized by ICPMS with comparison to a NIST SRM® when available. Additional characterization techniques may include but are not limited to: titrimetry, and densitometry.

Storage: Sealed ampules and other containers should be stored in the dark and at temperatures indicated on the Certified Weight Report or product label. Certification by Absolute Standards, Inc. is typically valid for 3 years from the date of manufacture. Each product will show its own expiration date as the limit of certification. Certified values are not applicable to opened ampules or for any materials stored in re-sealable containers. Please see the "Certified Weight Report" for specific values and any exceptions.

Usage: Ampules & bottles should be brought to room temperature (18 to 30 °C) before opening. Sonication may be required for high concentration solutions or solutions that may precipitate during storage. After opening, care should be exercised to avoid concentration changes owing to evaporation of the solvent or essential components. We recommend that a suitable re-sealable container be available before opening an ampule to decant the standard for short-term storage and use.

Minimum Sample Size: 0.5 uL for analytical applications.

Legal Notice: Warranty of products are as described when shipped. No warranty as to fitness for any particular application is expressed or implied. Errant shipments and/or quality claims must be made within 10 days of receipt. Liability is limited solely to the replacement of the product or refund of purchase price.

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034



Understanding the Certified Weight Report



Each Certified Reference Material (CRM) is supported by a Certified Weight Report. Assigned values for concentrations and associated uncertainties are based upon NIST traceable masses & volumes used in production.

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Certified Reference Material CRM

ISO 17034 Accredited
Scope: http://AbsoluteStandards.com

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070721
Expiration Date:
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 4000
NIST Test ID#: 822-275872-11
Weight(s) shown below were combined and diluted to (mL): 500.0
Balance Uncertainty: 0.058
Peak Uncertainty: 0.058

Solvent(s): Methylene chloride
Lot# 78782

Formulated By: Paul Barron
Reviewed By: Pedro L. Rentes

DATE: 070716
DATE: 070716

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

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty (%)	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	or-rat 500mg/kg
2. Naphthalene-d8	222	PR-2339M031612HP1	4000	99	0.2	2.02032	2.02084	4001.0	15.2	1146-85-2	10 ppm (50mg/m3/8h)	or-rat 400mg/kg
3. Acenaphthene-d10	2	PR-25444	4000	99	0.2	2.02032	2.02245	4004.2	15.2	15067-28-2	N/A	or-rat 500mg/kg
4. Phenanthrene-d10	248	PR-2305M081711PM1	4000	98	0.2	2.04093	2.04135	4000.8	15.4	1517-25-2	N/A	N/A
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04150	4001.3	15.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24112	4000	98	0.2	2.04093	2.04155	4001.2	15.4	1503-58-3	N/A	N/A

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"
Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070716-GC/MS", Method "GC-MS".
Analyzed using Method "GC-MS".

Comments:
GC-MS Analysis by Melissa Siciric
Column ID SPB-5 30 meter x 0.53mm x 1.5um Film Thickness.
Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 0.5 mL, Helium (make-up) = 25 mL.
Hydrogen (detector) = 30 mL, Air (detector) = 300 mL, Oven Temp 1 = 50°C (1 min).
Rise = 10°C/min, Oven Temp 2 = 300°C (14 min). Total Run Time = 40 Minutes. Injector Temp = 250°C.
FID Temp = 300°C, FID Signal = sData Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 4

Qualitative Quantitative

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

3rd Party Comparison

Analyte	Sup/Abs Dev (%)
1,4-Dichlorobenzene-d4	2.55
Naphthalene-d8	2.43
Acenaphthene-d10	2.74
Phenanthrene-d10	0.65
Chrysene-d12	1.93
Perylene-d12	-1.72
Total	-0.55

Printed: 5/8/2019, 12:55:50 PM

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



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





Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

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

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

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

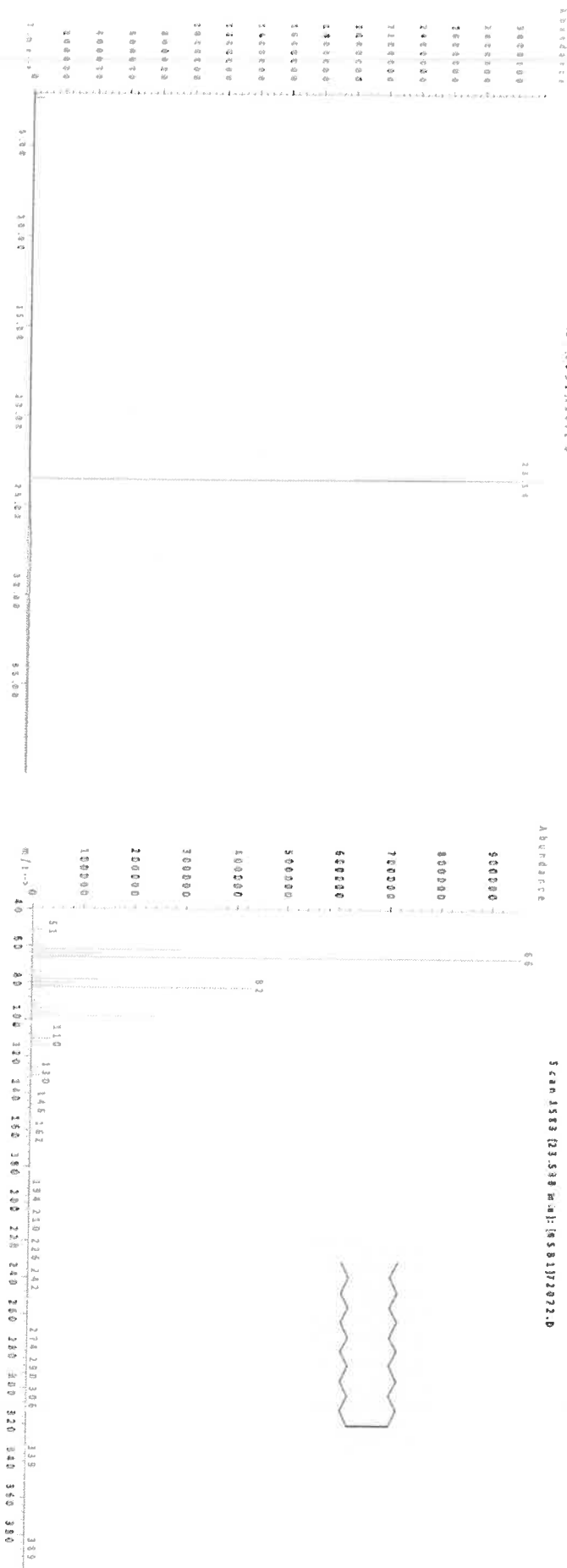
Handwritten: P13437 } X.F.
P13496 } 07/24/24

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

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%D)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	LD50
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1. n-Tetracosane-d50 2072 PR-26606 1000 98.7 0.2 99.0 0.20471 0.20482 1000.6 4.1 16416-32-3 N/A

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B = 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1996).



SHIPPING DOCUMENTS



CHAIN OF CUSTODY RECORD

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

CLIENT INFORMATION				PROJECT INFORMATION				BILLING INFORMATION			
Report to be sent to:				PROJECT NAME:				BILL TO:			
COMPANY:				PROJECT #:				ADDRESS:			
ADDRESS:				PROJECT MANAGER:				CITY:			
STATE:				E-MAIL:				STATE:			
ZIP:				PHONE:				ATTENTION:			
FAX:				FAX:				PHONE:			
FAX (RUSH) _____ DAYS*				DATA DELIVERABLE INFORMATION				ANALYSIS			
HARDCOPY (DATA PACKAGE): _____ DAYS*				Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data) ☐				PRESERVATIVES			
EDD: _____ DAYS*				Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP ☐				SPECIMEN PRESERVATIVES			
*TO BE APPROVED BY CHEMTECH				Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐				A-HCl D-NiOH			
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS				Other ☐ EDD FORMAT ☐				B-HNO3 E-ICE			
CHEMTECH SAMPLE ID		PROJECT IDENTIFICATION		SAMPLE MATRIX		SAMPLE TYPE		SAMPLE COLLECTION		COMMENTS	
1. WASTE								DATE TIME		1 2 3 4 5 6 7 8 9	
2. VOC								11/11/11		X	
3. 1								12/1/11		X	
4. 2								12/1/11		X	
5. 3								12/1/11		X	
6. 4								12/1/11		X	
7. 5								12/1/11		X	
8. 6								12/1/11		X	
9.											
10.											
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY											
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY		DATE/TIME		CONDITIONS OF BOTTLES OR COLLARS AT RECEIPT:		COOLER TEMP	
1. [Signature]		11/11/11		1415		11-11-11		COMPLAINT ☐ NON COMPLAINT ☐		2.56	
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		COMMENTS:			
2. [Signature]		11/11/11		[Signature]		11/11/11					
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY		DATE/TIME		CLIENT: ☐ Hand Delivered ☐ Other: _____		SHIPMENT COMPLETE ☐ YES ☐ NO	
3. [Signature]		11/11/11		[Signature]		11/11/11		CHEMTECH: ☐ Picked Up			
10/20/18											

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

124 Main St.
P4810
Bloomfield

1005 US7



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

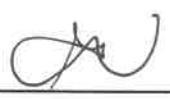
Laboratory Certification

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 : P4810	SCIA01	Order Date : 11/11/2024 2:32:00 PM	Project Mgr :
Client Name : Sciacca General Contractor		Project Name : 124 Main St. Bloomingdale	Report Type : Results Only
Client Contact : Daniel Scirica		Receive DateTime : 11/11/2024 12:00:00 AM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Sciacca General Contractor		Purchase Order :	Hard Copy Date :
Invoice Contact : Daniel Scirica			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4810-02	VOC	Solid	11/11/2024	12:15	VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By : 

Date / Time : 11/12/24 0830

Received on 11/11/24
Placed in SM-REF

Received By : 

Date / Time : 11-12-24

Storage Area : VOA Refridgerator Room

68:30