

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:	Q1236	OrderDate:	1/30/2025 12:48:00 PM
Client:	Sciacca General Contractors, LLC	Project:	1063 Lafayette Ave, Hawthorne, NJ
Contact:	Daniel Scirica	Location:	E11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1236-01	WASTE	SOIL	TPH GC	8015D	01/30/25	01/31/25	02/01/25	01/30/25



QC SUMMARY

SOIL TPH GC SURROGATE RECOVERY

Lab Name: Chemtech Client: Sciacca General Contractors, LLC
Lab Code: CHEM Case No.: Q1236 SAS No.: Q1236 SDG No.: Q1236

EPA SAMPLE NO.	S1 TETRACOSANE-d50	S2	S3	S4	TOT OUT
PIBLK-FE052191.D	87				0
PIBLK-FE052200.D	88				0
PB166433BL	95				0
PB166433BS	91				0
WASTE	64				0
WASTEMS	55				0
WASTEMSD	55				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:** Q1236 **SAS No :** Q1236 **SDG No:** Q1236
Client SampleID : WASTEMS **Datafile:** FE052197.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	13870	62500	72700	74%		68-131

SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Sciacca General Contractors, LLC
Lab Code: CHEM **Cas No:** Q1236 **SAS No :** Q1236 **SDG No:** Q1236
Client SampleID : WASTEMSD **Datafile:** FE052198.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
Petroleum Hydrocarbons	13861	62500	73100	76%		68-131

MS/MSD % Recovery RPD : 2.67

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

Lab Name: Chemtech **Client:** Sciacca General Contractors, LLC
Lab Code: CHEM **Cas No:** Q1236 **SAS No :** Q1236 **SDG No:** Q1236
Matrix Spike - EPA Sample No : PB166433BS **Datafile:** FE052195.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
Petroleum Hydrocarbons	11322	0	11279	100	68-131

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166433BL

Lab Name: CHEMTECH

Contract: SCIA01

Lab Code: CHEM Case No.: Q1236

SAS No.: Q1236 SDG NO.: Q1236

Lab File ID: FE052194.D

Lab Sample ID: PB166433BL

Instrument ID: FE

Date Extracted: 02/01/2025

Matrix: (soil/water) Soil

Date Analyzed: 02/01/25

Level: (low/med) low

Time Analyzed: 2:14

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166433BS	PB166433BS	FE052195.D	02/01/25
WASTE	Q1236-01	FE052196.D	02/01/25
WASTEMS	Q1236-01MS	FE052197.D	02/01/25
WASTEMSD	Q1236-01MSD	FE052198.D	02/01/25

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	01/30/25
Project:	1063 Lafayette Ave, Hawthorne, NJ	Date Received:	01/30/25
Client Sample ID:	WASTE	SDG No.:	Q1236
Lab Sample ID:	Q1236-01	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	81.6
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	TPH GC
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052196.D	1	01/31/25 12:05	02/01/25 3:15	PB166433

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	62500		389	3460	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	12.7		37 - 130	64%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052196.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 03:15
Operator : YP\AJ
Sample : Q1236-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
WASTE

Integration File: autoint1.e
Quant Time: Feb 03 00:17:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.292	1268370	12.735 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

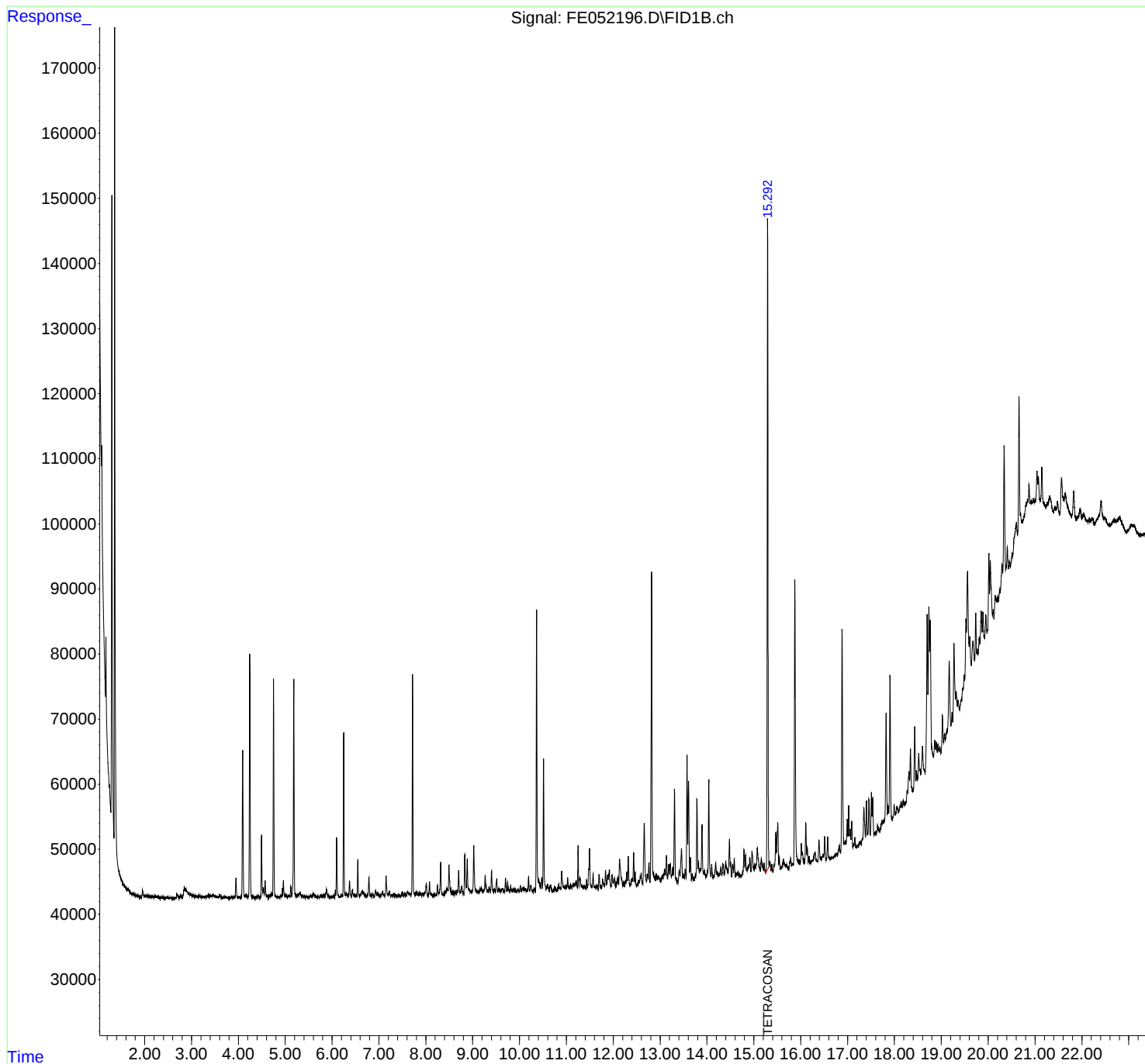
(m)=manual int.

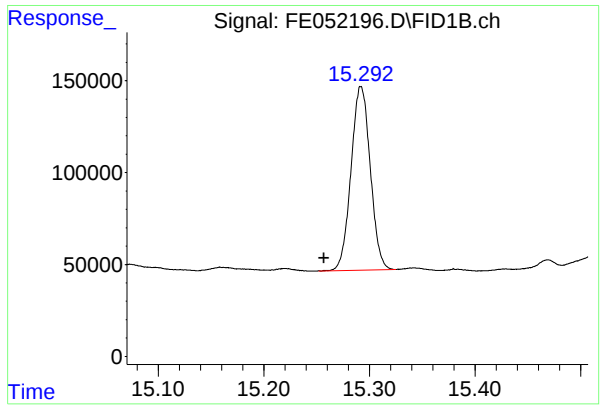
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052196.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 03:15
Operator : YP\AJ
Sample : Q1236-01
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
WASTE

Integration File: autoint1.e
Quant Time: Feb 03 00:17:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.292 min
Delta R.T.: 0.035 min
Response: 1268370
Conc: 12.73 ug/ml

Instrument :
FID_E
ClientSampleId :
WASTE

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
 Data File : FE052196.D
 Signal(s) : FID1B.ch
 Acq On : 01 Feb 2025 03:15
 Sample : Q1236-01
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.465	2.451	2.477	BV	163	1129	0.03%	0.001%
2	2.481	2.477	2.492	PV	138	370	0.01%	0.000%
3	2.496	2.492	2.507	PV	51	152	0.00%	0.000%
4	2.509	2.507	2.520	PV	4	-34	-0.00%	-0.000%
5	2.523	2.520	2.536	PV	82	82	0.00%	0.000%
6	2.555	2.536	2.569	PV	140	843	0.02%	0.001%
7	2.576	2.569	2.579	PV	101	19	0.00%	0.000%
8	2.583	2.579	2.592	PV	67	-1	-0.00%	-0.000%
9	2.598	2.592	2.611	PV	93	-92	-0.00%	-0.000%
10	2.615	2.611	2.627	PV	63	-145	-0.00%	-0.000%
11	2.639	2.627	2.648	PV	68	-316	-0.01%	-0.000%
12	2.684	2.648	2.748	PV	694	11725	0.28%	0.008%
13	2.766	2.748	2.808	PV	595	8358	0.20%	0.005%
14	2.849	2.808	2.983	PV	1578	98765	2.36%	0.065%
15	2.987	2.983	3.003	VV	533	5813	0.14%	0.004%
16	3.006	3.003	3.019	VV	470	4212	0.10%	0.003%
17	3.027	3.019	3.035	VV	428	3878	0.09%	0.003%
18	3.042	3.035	3.066	VV	462	6622	0.16%	0.004%
19	3.068	3.066	3.088	VV	338	3904	0.09%	0.003%
20	3.095	3.088	3.143	VV	347	7507	0.18%	0.005%
21	3.157	3.143	3.201	VV	421	9162	0.22%	0.006%
22	3.228	3.201	3.240	VV	279	5067	0.12%	0.003%
23	3.248	3.240	3.260	VV	273	2341	0.06%	0.002%
24	3.270	3.260	3.279	VV	300	2091	0.05%	0.001%
25	3.300	3.279	3.306	VV	296	3413	0.08%	0.002%
26	3.315	3.306	3.319	VV	254	1534	0.04%	0.001%
27	3.334	3.319	3.338	VV	375	3132	0.07%	0.002%
28	3.349	3.338	3.378	VV	424	7640	0.18%	0.005%
29	3.394	3.378	3.405	VV	469	5701	0.14%	0.004%
30	3.408	3.405	3.413	VV	302	1529	0.04%	0.001%
31	3.423	3.413	3.429	VV	376	2715	0.06%	0.002%
32	3.437	3.429	3.443	VV	387	2834	0.07%	0.002%
33	3.465	3.443	3.511	VV	603	14684	0.35%	0.010%
34	3.520	3.511	3.546	VV	313	4484	0.11%	0.003%
35	3.551	3.546	3.568	VV	267	2287	0.05%	0.001%
36	3.574	3.568	3.580	VV	167	1022	0.02%	0.001%

					rteres			
37	3.599	3.580	3.640	VV	466	9399	0.22%	0.006%
38	3.644	3.640	3.677	VV	186	2379	0.06%	0.002%
39	3.730	3.677	3.751	VV	321	6530	0.16%	0.004%
40	3.754	3.751	3.774	VV	75	944	0.02%	0.001%
41	3.778	3.774	3.783	PV	87	275	0.01%	0.000%
42	3.795	3.783	3.799	PV	132	680	0.02%	0.000%
43	3.807	3.799	3.821	PV	101	830	0.02%	0.001%
44	3.834	3.821	3.848	PV	186	1706	0.04%	0.001%
45	3.851	3.848	3.867	VV	162	1389	0.03%	0.001%
46	3.887	3.867	3.905	VV	213	3237	0.08%	0.002%
47	3.948	3.905	3.991	VV	3068	40880	0.98%	0.027%
48	3.997	3.991	4.008	PV	156	952	0.02%	0.001%
49	4.021	4.008	4.040	VV	239	2683	0.06%	0.002%
50	4.048	4.040	4.056	VV	210	1207	0.03%	0.001%
51	4.091	4.056	4.128	VV	22555	266719	6.38%	0.174%
52	4.141	4.128	4.147	VV	465	4308	0.10%	0.003%
53	4.171	4.147	4.210	VV	584	12726	0.30%	0.008%
54	4.242	4.210	4.295	VV	37562	440852	10.55%	0.288%
55	4.312	4.295	4.342	VV	300	4539	0.11%	0.003%
56	4.344	4.342	4.350	VV	95	371	0.01%	0.000%
57	4.355	4.350	4.360	VV	140	505	0.01%	0.000%
58	4.370	4.360	4.400	VV	188	2594	0.06%	0.002%
59	4.415	4.400	4.438	VV	316	4901	0.12%	0.003%
60	4.443	4.438	4.456	VV	173	1305	0.03%	0.001%
61	4.461	4.456	4.470	VV	146	900	0.02%	0.001%
62	4.493	4.470	4.518	VV	9579	102678	2.46%	0.067%
63	4.532	4.518	4.553	VV	1673	23555	0.56%	0.015%
64	4.571	4.553	4.599	VV	2706	34229	0.82%	0.022%
65	4.604	4.599	4.635	VV	341	5939	0.14%	0.004%
66	4.669	4.635	4.688	VV	402	7730	0.18%	0.005%
67	4.702	4.688	4.720	VV	795	10586	0.25%	0.007%
68	4.750	4.720	4.784	VV	33695	336322	8.05%	0.220%
69	4.789	4.784	4.837	VV	360	7209	0.17%	0.005%
70	4.841	4.837	4.870	VH	192	3105	0.07%	0.002%
71	4.875	4.870	4.885	HH	206	1487	0.04%	0.001%
72	4.907	4.885	4.916	HH	403	5372	0.13%	0.004%
73	4.919	4.916	4.935	HH	392	3422	0.08%	0.002%
74	4.938	4.935	4.942	HH	1400	2660	0.06%	0.002%
75	4.960	4.942	4.992	HH	2619	32763	0.78%	0.021%
76	5.006	4.992	5.026	HH	607	8701	0.21%	0.006%
77	5.043	5.026	5.051	HH	313	3838	0.09%	0.003%
78	5.075	5.051	5.095	HH	416	7644	0.18%	0.005%
79	5.117	5.095	5.140	HH	1771	22232	0.53%	0.015%
80	5.182	5.140	5.221	HH	33640	360168	8.62%	0.235%
81	5.237	5.221	5.251	HH	534	8060	0.19%	0.005%
82	5.272	5.251	5.293	HH	601	12504	0.30%	0.008%
83	5.307	5.293	5.361	HH	735	20742	0.50%	0.014%
84	5.371	5.361	5.398	HH	413	5632	0.13%	0.004%
85	5.404	5.398	5.431	HH	347	4898	0.12%	0.003%
86	5.433	5.431	5.441	HH	206	955	0.02%	0.001%
87	5.460	5.441	5.475	HH	293	4358	0.10%	0.003%
88	5.487	5.475	5.493	HH	263	2382	0.06%	0.002%
89	5.497	5.493	5.508	HH	208	1692	0.04%	0.001%

					rteres			
90	5.513	5.508	5.524	HH	244	1621	0.04%	0.001%
91	5.541	5.524	5.560	HH	470	5981	0.14%	0.004%
92	5.577	5.560	5.589	HH	594	6245	0.15%	0.004%
93	5.600	5.589	5.616	HH	672	8069	0.19%	0.005%
94	5.620	5.616	5.642	HH	493	5214	0.12%	0.003%
95	5.648	5.642	5.680	HH	340	4966	0.12%	0.003%
96	5.691	5.680	5.723	HH	326	6110	0.15%	0.004%
97	5.760	5.723	5.781	HH	583	9910	0.24%	0.006%
98	5.795	5.781	5.814	HH	385	5038	0.12%	0.003%
99	5.829	5.814	5.850	HH	610	7307	0.17%	0.005%
100	5.881	5.850	5.907	HH	1406	26636	0.64%	0.017%
101	5.912	5.907	5.931	HH	425	4610	0.11%	0.003%
102	5.937	5.931	5.943	HH	355	1715	0.04%	0.001%
103	5.945	5.943	5.951	HH	334	1016	0.02%	0.001%
104	5.956	5.951	5.984	HH	278	3196	0.08%	0.002%
105	5.994	5.984	6.000	HH	237	1362	0.03%	0.001%
106	6.030	6.000	6.051	HH	351	6618	0.16%	0.004%
107	6.069	6.051	6.080	HH	1227	11901	0.28%	0.008%
108	6.097	6.080	6.161	HH	9348	103025	2.47%	0.067%
109	6.165	6.161	6.173	HH	263	1300	0.03%	0.001%
110	6.188	6.173	6.202	HH	549	5982	0.14%	0.004%
111	6.207	6.202	6.212	HH	350	1853	0.04%	0.001%
112	6.220	6.212	6.226	HH	362	2629	0.06%	0.002%
113	6.247	6.226	6.280	HH	25387	251744	6.02%	0.164%
114	6.282	6.280	6.291	HH	632	3569	0.09%	0.002%
115	6.300	6.291	6.350	HH	961	17800	0.43%	0.012%
116	6.372	6.350	6.412	HH	2581	38961	0.93%	0.025%
117	6.430	6.412	6.436	HH	1092	11050	0.26%	0.007%
118	6.437	6.436	6.458	HH	1366	8927	0.21%	0.006%
119	6.463	6.458	6.482	HH	554	5874	0.14%	0.004%
120	6.485	6.482	6.489	HH	348	1336	0.03%	0.001%
121	6.496	6.489	6.501	HH	397	2534	0.06%	0.002%
122	6.517	6.501	6.529	HH	532	7187	0.17%	0.005%
123	6.549	6.529	6.574	HH	5954	61458	1.47%	0.040%
124	6.581	6.574	6.585	HH	394	2537	0.06%	0.002%
125	6.599	6.585	6.604	HH	454	4776	0.11%	0.003%
126	6.619	6.604	6.625	HH	796	8085	0.19%	0.005%
127	6.638	6.625	6.649	HH	1145	13452	0.32%	0.009%
128	6.653	6.649	6.668	HH	965	9002	0.22%	0.006%
129	6.672	6.668	6.701	HH	764	11460	0.27%	0.007%
130	6.710	6.701	6.720	HH	535	4270	0.10%	0.003%
131	6.733	6.720	6.738	HH	493	3894	0.09%	0.003%
132	6.757	6.738	6.765	HH	588	7062	0.17%	0.005%
133	6.787	6.765	6.812	HH	3065	41733	1.00%	0.027%
134	6.822	6.812	6.839	HH	505	6225	0.15%	0.004%
135	6.847	6.839	6.851	HH	437	2803	0.07%	0.002%
136	6.868	6.851	6.903	HH	730	12975	0.31%	0.008%
137	6.926	6.903	6.964	HH	1177	25646	0.61%	0.017%
138	6.974	6.964	6.993	HH	737	9872	0.24%	0.006%
139	6.997	6.993	7.020	HH	527	6500	0.16%	0.004%
140	7.045	7.020	7.050	HH	530	7741	0.19%	0.005%
141	7.063	7.050	7.069	HH	675	6420	0.15%	0.004%

					rteres			
142	7.081	7.069	7.099	HH	1093	13773	0.33%	0.009%
143	7.104	7.099	7.121	HH	503	4936	0.12%	0.003%
144	7.127	7.121	7.132	HH	363	2470	0.06%	0.002%
145	7.152	7.132	7.196	HH	3387	51895	1.24%	0.034%
146	7.206	7.196	7.213	HH	670	6061	0.15%	0.004%
147	7.224	7.213	7.246	HH	1109	14539	0.35%	0.009%
148	7.262	7.246	7.269	HH	509	5937	0.14%	0.004%
149	7.276	7.269	7.294	HH	495	6775	0.16%	0.004%
150	7.314	7.294	7.342	HH	782	13044	0.31%	0.009%
151	7.347	7.342	7.353	HH	416	2022	0.05%	0.001%
152	7.371	7.353	7.395	HH	623	9497	0.23%	0.006%
153	7.418	7.395	7.436	HH	470	8862	0.21%	0.006%
154	7.441	7.436	7.446	HH	480	2399	0.06%	0.002%
155	7.457	7.446	7.465	HH	473	4474	0.11%	0.003%
156	7.498	7.465	7.527	HH	1046	21062	0.50%	0.014%
157	7.541	7.527	7.561	HH	761	11175	0.27%	0.007%
158	7.571	7.561	7.587	HH	549	7128	0.17%	0.005%
159	7.607	7.587	7.652	HH	994	29482	0.71%	0.019%
160	7.663	7.652	7.681	HH	753	11257	0.27%	0.007%
161	7.685	7.681	7.694	HH	587	4585	0.11%	0.003%
162	7.718	7.694	7.784	HH	34360	352133	8.43%	0.230%
163	7.805	7.784	7.842	HH	1006	22380	0.54%	0.015%
164	7.871	7.842	7.876	HH	815	12474	0.30%	0.008%
165	7.884	7.876	7.909	HH	816	12021	0.29%	0.008%
166	7.912	7.909	7.919	HH	549	3332	0.08%	0.002%
167	7.933	7.919	7.958	HH	807	14313	0.34%	0.009%
168	8.012	7.958	8.048	HH	2314	54714	1.31%	0.036%
169	8.080	8.048	8.126	HH	2551	46074	1.10%	0.030%
170	8.131	8.126	8.139	HH	570	4007	0.10%	0.003%
171	8.143	8.139	8.160	HH	573	5880	0.14%	0.004%
172	8.164	8.160	8.171	HH	496	2732	0.07%	0.002%
173	8.192	8.171	8.202	HH	611	9011	0.22%	0.006%
174	8.214	8.202	8.220	HH	521	4604	0.11%	0.003%
175	8.248	8.220	8.277	HH	1942	35032	0.84%	0.023%
176	8.318	8.277	8.371	HH	5499	93480	2.24%	0.061%
177	8.413	8.371	8.431	HH	1177	28328	0.68%	0.019%
178	8.448	8.431	8.478	HH	1531	35067	0.84%	0.023%
179	8.495	8.478	8.527	HH	5144	81591	1.95%	0.053%
180	8.535	8.527	8.555	HH	1324	16588	0.40%	0.011%
181	8.580	8.555	8.598	HH	1184	21680	0.52%	0.014%
182	8.615	8.598	8.629	HH	858	13900	0.33%	0.009%
183	8.636	8.629	8.655	HH	1030	12748	0.31%	0.008%
184	8.669	8.655	8.683	HH	1241	17346	0.42%	0.011%
185	8.702	8.683	8.734	HH	4262	62138	1.49%	0.041%
186	8.736	8.734	8.748	HH	970	7565	0.18%	0.005%
187	8.766	8.748	8.805	HH	1835	41408	0.99%	0.027%
188	8.831	8.805	8.865	HH	6636	102063	2.44%	0.067%
189	8.884	8.865	8.950	HH	6109	115901	2.77%	0.076%
190	8.958	8.950	8.970	HH	1129	12095	0.29%	0.008%
191	8.980	8.970	8.985	HH	1078	9346	0.22%	0.006%
192	9.024	8.985	9.099	HH	8096	161594	3.87%	0.106%
193	9.115	9.099	9.132	HH	967	18356	0.44%	0.012%
194	9.155	9.132	9.165	HH	1509	23109	0.55%	0.015%

					rteres			
195	9.177	9.165	9.216	HH	1549	38786	0.93%	0.025%
196	9.268	9.216	9.283	HH	3551	70109	1.68%	0.046%
197	9.288	9.283	9.311	HH	1852	23988	0.57%	0.016%
198	9.321	9.311	9.334	HH	1295	16556	0.40%	0.011%
199	9.353	9.334	9.385	HH	1804	39822	0.95%	0.026%
200	9.403	9.385	9.438	HH	4189	71928	1.72%	0.047%
201	9.470	9.438	9.484	HH	1336	31080	0.74%	0.020%
202	9.512	9.484	9.535	HH	2934	57490	1.38%	0.038%
203	9.552	9.535	9.572	HH	1510	27869	0.67%	0.018%
204	9.578	9.572	9.604	HH	1322	21585	0.52%	0.014%
205	9.621	9.604	9.630	HH	1476	19559	0.47%	0.013%
206	9.640	9.630	9.656	HH	1556	19424	0.46%	0.013%
207	9.661	9.656	9.679	HH	1091	14268	0.34%	0.009%
208	9.703	9.679	9.730	HH	3078	55151	1.32%	0.036%
209	9.745	9.730	9.796	HH	2477	57138	1.37%	0.037%
210	9.811	9.796	9.831	HH	1931	30617	0.73%	0.020%
211	9.837	9.831	9.847	HH	1151	10632	0.25%	0.007%
212	9.861	9.847	9.891	HH	1412	32812	0.79%	0.021%
213	9.905	9.891	9.926	HH	1525	24583	0.59%	0.016%
214	9.938	9.926	9.947	HH	1092	12616	0.30%	0.008%
215	9.967	9.947	9.998	HH	1365	36392	0.87%	0.024%
216	10.018	9.998	10.039	HH	1860	33801	0.81%	0.022%
217	10.062	10.039	10.077	HH	1672	30470	0.73%	0.020%
218	10.091	10.077	10.108	HH	1600	26419	0.63%	0.017%
219	10.120	10.108	10.137	HH	1459	22846	0.55%	0.015%
220	10.155	10.137	10.164	HH	1176	18174	0.43%	0.012%
221	10.194	10.164	10.217	HH	3382	61722	1.48%	0.040%
222	10.241	10.217	10.274	HH	2007	51642	1.24%	0.034%
223	10.277	10.274	10.289	HH	1146	9399	0.22%	0.006%
224	10.317	10.289	10.339	HH	1583	36677	0.88%	0.024%
225	10.366	10.339	10.404	HH	44316	495214	11.85%	0.324%
226	10.416	10.404	10.456	HH	2790	68211	1.63%	0.045%
227	10.475	10.456	10.493	HH	3196	50593	1.21%	0.033%
228	10.514	10.493	10.565	HH	21404	272353	6.52%	0.178%
229	10.568	10.565	10.572	HH	1571	6216	0.15%	0.004%
230	10.580	10.572	10.591	HH	1703	19250	0.46%	0.013%
231	10.605	10.591	10.633	HH	2067	41321	0.99%	0.027%
232	10.652	10.633	10.698	HH	1957	58539	1.40%	0.038%
233	10.699	10.698	10.706	HH	1138	4898	0.12%	0.003%
234	10.716	10.706	10.721	HH	1174	10548	0.25%	0.007%
235	10.745	10.721	10.771	HH	1813	41231	0.99%	0.027%
236	10.777	10.771	10.797	HH	1347	19862	0.48%	0.013%
237	10.834	10.797	10.854	HH	2097	54607	1.31%	0.036%
238	10.870	10.854	10.883	HH	1643	25975	0.62%	0.017%
239	10.901	10.883	10.939	HH	4163	87027	2.08%	0.057%
240	10.949	10.939	10.958	HH	1812	19485	0.47%	0.013%
241	10.962	10.958	10.968	HH	1733	9671	0.23%	0.006%
242	10.984	10.968	11.000	HH	1987	34006	0.81%	0.022%
243	11.029	11.000	11.054	HH	3120	69362	1.66%	0.045%
244	11.063	11.054	11.076	HH	1818	21872	0.52%	0.014%
245	11.095	11.076	11.113	HH	2019	40493	0.97%	0.026%
246	11.142	11.113	11.156	HH	2220	49204	1.18%	0.032%

					rteres			
247	11.171	11.156	11.179	HH	2146	27269	0.65%	0.018%
248	11.209	11.179	11.227	HH	2679	64513	1.54%	0.042%
249	11.250	11.227	11.269	HH	8077	109015	2.61%	0.071%
250	11.284	11.269	11.338	HH	3173	96653	2.31%	0.063%
251	11.341	11.338	11.354	HH	1759	16115	0.39%	0.011%
252	11.369	11.354	11.403	HH	1927	49635	1.19%	0.032%
253	11.431	11.403	11.451	HH	2802	57238	1.37%	0.037%
254	11.495	11.451	11.546	HH	7640	191031	4.57%	0.125%
255	11.571	11.546	11.594	HH	3717	70309	1.68%	0.046%
256	11.603	11.594	11.621	HH	1807	27960	0.67%	0.018%
257	11.646	11.621	11.678	HH	2016	58362	1.40%	0.038%
258	11.698	11.678	11.716	HH	3589	56364	1.35%	0.037%
259	11.721	11.716	11.751	HH	1962	37679	0.90%	0.025%
260	11.773	11.751	11.815	HH	2859	82267	1.97%	0.054%
261	11.837	11.815	11.859	HH	4257	75827	1.81%	0.050%
262	11.878	11.859	11.892	HH	3544	58717	1.41%	0.038%
263	11.916	11.892	11.952	HH	4405	110023	2.63%	0.072%
264	11.977	11.952	12.000	HH	3586	78035	1.87%	0.051%
265	12.028	12.000	12.059	HH	3032	84370	2.02%	0.055%
266	12.101	12.059	12.118	HH	3250	89088	2.13%	0.058%
267	12.137	12.118	12.203	HH	5956	183480	4.39%	0.120%
268	12.218	12.203	12.237	HH	2515	44536	1.07%	0.029%
269	12.242	12.237	12.245	HH	2046	10002	0.24%	0.007%
270	12.260	12.245	12.270	HH	2702	36031	0.86%	0.024%
271	12.291	12.270	12.306	HH	3937	68236	1.63%	0.045%
272	12.322	12.306	12.359	HH	6431	114832	2.75%	0.075%
273	12.363	12.359	12.371	HH	2108	14302	0.34%	0.009%
274	12.390	12.371	12.400	HH	2854	44438	1.06%	0.029%
275	12.409	12.400	12.418	HH	3112	31528	0.75%	0.021%
276	12.438	12.418	12.455	HH	7021	101862	2.44%	0.067%
277	12.470	12.455	12.494	HH	4091	67196	1.61%	0.044%
278	12.513	12.494	12.521	HH	2173	32954	0.79%	0.022%
279	12.540	12.521	12.557	HH	2605	51219	1.23%	0.033%
280	12.575	12.557	12.583	HH	3298	45012	1.08%	0.029%
281	12.596	12.583	12.632	HH	3778	86170	2.06%	0.056%
282	12.658	12.632	12.707	HH	11485	246339	5.89%	0.161%
283	12.725	12.707	12.743	HH	3659	68638	1.64%	0.045%
284	12.764	12.743	12.785	HH	5448	98326	2.35%	0.064%
285	12.815	12.785	12.872	HH	50139	665591	15.93%	0.435%
286	12.878	12.872	12.902	HH	3354	55072	1.32%	0.036%
287	12.920	12.902	12.937	HH	3805	67048	1.60%	0.044%
288	12.956	12.937	13.011	HH	3402	133857	3.20%	0.087%
289	13.050	13.011	13.064	HH	3566	99901	2.39%	0.065%
290	13.095	13.064	13.115	HH	4460	115164	2.76%	0.075%
291	13.133	13.115	13.154	HH	6585	110234	2.64%	0.072%
292	13.183	13.154	13.198	HH	5179	108774	2.60%	0.071%
293	13.218	13.198	13.240	HH	5252	110210	2.64%	0.072%
294	13.269	13.240	13.281	HH	4701	96557	2.31%	0.063%
295	13.305	13.281	13.335	HH	16767	260769	6.24%	0.170%
296	13.342	13.335	13.380	HH	3089	73053	1.75%	0.048%
297	13.406	13.380	13.427	HH	4224	99508	2.38%	0.065%
298	13.453	13.427	13.487	HH	7602	180176	4.31%	0.118%
299	13.497	13.487	13.516	HH	3528	57796	1.38%	0.038%

					rteres			
300	13.533	13.516	13.555	HH	4366	85291	2.04%	0.056%
301	13.577	13.555	13.591	HH	21998	266079	6.37%	0.174%
302	13.605	13.591	13.629	HH	17973	237815	5.69%	0.155%
303	13.643	13.629	13.671	HH	6094	115073	2.75%	0.075%
304	13.686	13.671	13.716	HH	3730	87978	2.11%	0.057%
305	13.722	13.716	13.735	HH	3019	32022	0.77%	0.021%
306	13.754	13.735	13.761	HH	3551	49986	1.20%	0.033%
307	13.784	13.761	13.805	HH	15191	222213	5.32%	0.145%
308	13.817	13.805	13.838	HH	5737	95310	2.28%	0.062%
309	13.851	13.838	13.862	HH	4482	62789	1.50%	0.041%
310	13.895	13.862	13.937	HH	11226	265539	6.35%	0.173%
311	13.946	13.937	13.977	HH	4223	89545	2.14%	0.059%
312	13.993	13.977	13.999	HH	3517	44289	1.06%	0.029%
313	14.014	13.999	14.020	HH	4248	49127	1.18%	0.032%
314	14.041	14.020	14.080	HH	18149	294872	7.06%	0.193%
315	14.098	14.080	14.121	HH	5205	98696	2.36%	0.064%
316	14.133	14.121	14.136	HH	3370	29440	0.70%	0.019%
317	14.140	14.136	14.152	HH	3423	31110	0.74%	0.020%
318	14.186	14.152	14.216	HH	5478	161232	3.86%	0.105%
319	14.224	14.216	14.239	HH	4087	53015	1.27%	0.035%
320	14.245	14.239	14.262	HH	3616	50055	1.20%	0.033%
321	14.296	14.262	14.318	HH	4719	132548	3.17%	0.087%
322	14.339	14.318	14.368	HH	5188	132397	3.17%	0.086%
323	14.399	14.368	14.448	HH	5744	217477	5.20%	0.142%
324	14.478	14.448	14.496	HH	9073	183879	4.40%	0.120%
325	14.504	14.496	14.528	HH	5386	83447	2.00%	0.055%
326	14.546	14.528	14.563	HH	5210	92153	2.21%	0.060%
327	14.580	14.563	14.605	HH	6122	115548	2.77%	0.075%
328	14.630	14.605	14.643	HH	3826	83808	2.01%	0.055%
329	14.660	14.643	14.693	HH	4059	110396	2.64%	0.072%
330	14.697	14.693	14.721	HH	3431	55699	1.33%	0.036%
331	14.735	14.721	14.744	HH	3565	48219	1.15%	0.032%
332	14.789	14.744	14.811	HH	7332	206264	4.94%	0.135%
333	14.825	14.811	14.843	HH	6587	104750	2.51%	0.068%
334	14.851	14.843	14.861	HH	4499	47608	1.14%	0.031%
335	14.882	14.861	14.896	HH	4994	97193	2.33%	0.063%
336	14.913	14.896	14.935	HH	6237	125017	2.99%	0.082%
337	14.960	14.935	15.008	HH	7197	239872	5.74%	0.157%
338	15.021	15.008	15.035	HH	5059	76747	1.84%	0.050%
339	15.073	15.035	15.138	HH	7735	348512	8.34%	0.228%
340	15.159	15.138	15.206	HH	6086	208169	4.98%	0.136%
341	15.220	15.206	15.248	HH	5378	115428	2.76%	0.075%
342	15.292	15.248	15.325	HH	104369	1467862	35.13%	0.959%
343	15.342	15.325	15.366	HH	5660	125703	3.01%	0.082%
344	15.380	15.366	15.407	HH	4988	109442	2.62%	0.072%
345	15.429	15.407	15.437	HH	5118	83361	1.99%	0.054%
346	15.469	15.437	15.482	HH	10024	195101	4.67%	0.127%
347	15.509	15.482	15.531	HH	11621	251699	6.02%	0.164%
348	15.542	15.531	15.566	HH	6380	116435	2.79%	0.076%
349	15.630	15.566	15.663	HH	5989	296733	7.10%	0.194%
350	15.667	15.663	15.686	HH	5159	69846	1.67%	0.046%
351	15.702	15.686	15.740	HH	5149	153250	3.67%	0.100%

					rteres			
352	15.784	15.740	15.804	HH	6133	205214	4.91%	0.134%
353	15.822	15.804	15.841	HH	5305	115319	2.76%	0.075%
354	15.873	15.841	15.946	HH	48771	943098	22.57%	0.616%
355	15.960	15.946	15.991	HH	5787	150213	3.59%	0.098%
356	16.012	15.991	16.026	HH	8303	149994	3.59%	0.098%
357	16.037	16.026	16.057	HH	7182	118932	2.85%	0.078%
358	16.068	16.057	16.083	HH	5922	88695	2.12%	0.058%
359	16.107	16.083	16.127	HH	11588	221868	5.31%	0.145%
360	16.140	16.127	16.162	HH	7774	141733	3.39%	0.093%
361	16.175	16.162	16.216	HH	6341	188363	4.51%	0.123%
362	16.243	16.216	16.267	HH	5835	174097	4.17%	0.114%
363	16.305	16.267	16.358	HH	7102	339033	8.11%	0.221%
364	16.389	16.358	16.430	HH	8803	295346	7.07%	0.193%
365	16.447	16.430	16.451	HH	6238	78020	1.87%	0.051%
366	16.476	16.451	16.488	HH	6716	140122	3.35%	0.092%
367	16.510	16.488	16.545	HH	9443	245509	5.88%	0.160%
368	16.574	16.545	16.597	HH	9379	229629	5.50%	0.150%
369	16.612	16.597	16.625	HH	6288	104593	2.50%	0.068%
370	16.639	16.625	16.655	HH	6131	109648	2.62%	0.072%
371	16.667	16.655	16.680	HH	6318	92904	2.22%	0.061%
372	16.740	16.680	16.745	HH	6658	247123	5.91%	0.161%
373	16.751	16.745	16.756	HH	6757	45707	1.09%	0.030%
374	16.768	16.756	16.785	HH	6936	117805	2.82%	0.077%
375	16.824	16.785	16.852	HH	8068	292846	7.01%	0.191%
376	16.881	16.852	16.928	HH	41404	814745	19.50%	0.532%
377	16.950	16.928	16.968	HH	8751	200536	4.80%	0.131%
378	16.992	16.968	17.005	HH	12062	230108	5.51%	0.150%
379	17.023	17.005	17.040	HH	14228	248472	5.95%	0.162%
380	17.051	17.040	17.070	HH	10489	171759	4.11%	0.112%
381	17.087	17.070	17.112	HH	11827	248077	5.94%	0.162%
382	17.127	17.112	17.136	HH	8345	115389	2.76%	0.075%
383	17.152	17.136	17.174	HH	9261	196296	4.70%	0.128%
384	17.187	17.174	17.217	HH	7976	203986	4.88%	0.133%
385	17.226	17.217	17.232	HH	7963	71808	1.72%	0.047%
386	17.253	17.232	17.288	HH	8601	285870	6.84%	0.187%
387	17.313	17.288	17.321	HH	9246	169317	4.05%	0.111%
388	17.347	17.321	17.378	HH	13960	395486	9.46%	0.258%
389	17.402	17.378	17.428	HH	14877	345304	8.26%	0.226%
390	17.455	17.428	17.485	HH	15161	398275	9.53%	0.260%
391	17.509	17.485	17.522	HH	16151	292007	6.99%	0.191%
392	17.535	17.522	17.568	HH	15316	336925	8.06%	0.220%
393	17.578	17.568	17.584	HH	9990	97710	2.34%	0.064%
394	17.618	17.584	17.622	HH	10108	224230	5.37%	0.146%
395	17.644	17.622	17.685	HH	11074	403219	9.65%	0.263%
396	17.733	17.685	17.747	HH	11992	411630	9.85%	0.269%
397	17.756	17.747	17.761	HH	11807	95880	2.29%	0.063%
398	17.763	17.761	17.768	HH	11731	53886	1.29%	0.035%
399	17.821	17.768	17.852	HH	28360	834703	19.97%	0.545%
400	17.867	17.852	17.880	HH	14013	224897	5.38%	0.147%
401	17.905	17.880	17.949	HH	34207	802592	19.21%	0.524%
402	17.993	17.949	18.022	HH	14375	568915	13.61%	0.372%
403	18.052	18.022	18.084	HH	14081	502302	12.02%	0.328%
404	18.145	18.084	18.168	HH	14595	708574	16.96%	0.463%

					rteres			
405	18.186	18.168	18.213	HH	14935	392757	9.40%	0.257%
406	18.236	18.213	18.242	HH	14704	247488	5.92%	0.162%
407	18.269	18.242	18.282	HH	16450	377008	9.02%	0.246%
408	18.311	18.282	18.323	HH	19426	456973	10.94%	0.299%
409	18.341	18.323	18.389	HH	22905	727851	17.42%	0.476%
410	18.432	18.389	18.453	HH	26372	780261	18.67%	0.510%
411	18.470	18.453	18.488	HH	19549	394403	9.44%	0.258%
412	18.518	18.488	18.540	HH	22275	622729	14.90%	0.407%
413	18.548	18.540	18.562	HH	19839	255835	6.12%	0.167%
414	18.598	18.562	18.653	HH	23289	1126385	26.95%	0.736%
415	18.697	18.653	18.714	HH	43604	1082427	25.90%	0.707%
416	18.734	18.714	18.750	HH	44694	849837	20.34%	0.555%
417	18.762	18.750	18.832	HH	42612	1401682	33.54%	0.916%
418	18.859	18.832	18.878	HH	24101	645668	15.45%	0.422%
419	18.897	18.878	18.914	HH	23846	493668	11.81%	0.323%
420	18.930	18.914	18.960	HH	23615	637982	15.27%	0.417%
421	18.972	18.960	18.991	HH	23128	417277	9.99%	0.273%
422	19.024	18.991	19.052	HH	28055	911013	21.80%	0.595%
423	19.069	19.052	19.086	HH	25346	505502	12.10%	0.330%
424	19.118	19.086	19.128	HH	25821	646829	15.48%	0.423%
425	19.168	19.128	19.204	HH	36435	1357477	32.48%	0.887%
426	19.227	19.204	19.243	HH	28494	652777	15.62%	0.426%
427	19.270	19.243	19.303	HH	39069	1177527	28.18%	0.769%
428	19.316	19.303	19.342	HH	31769	728618	17.44%	0.476%
429	19.357	19.342	19.391	HH	30339	874477	20.93%	0.571%
430	19.490	19.391	19.499	HH	34287	2033707	48.67%	1.329%
431	19.525	19.499	19.536	HH	42870	870642	20.83%	0.569%
432	19.558	19.536	19.592	HH	50108	1475029	35.30%	0.964%
433	19.608	19.592	19.640	HH	40194	1106896	26.49%	0.723%
434	19.673	19.640	19.710	HH	39467	1594709	38.16%	1.042%
435	19.734	19.710	19.756	HH	43786	1094613	26.19%	0.715%
436	19.775	19.756	19.788	HH	38118	739028	17.69%	0.483%
437	19.810	19.788	19.823	HH	40139	823671	19.71%	0.538%
438	19.851	19.823	19.871	HH	44073	1208032	28.91%	0.789%
439	19.890	19.871	19.918	HH	43906	1182082	28.29%	0.772%
440	19.950	19.918	19.974	HH	43457	1380481	33.04%	0.902%
441	20.015	19.974	20.030	HH	52938	1530866	36.63%	1.000%
442	20.045	20.030	20.093	HH	51818	1820358	43.56%	1.189%
443	20.108	20.093	20.123	HH	44340	787667	18.85%	0.515%
444	20.151	20.123	20.165	HH	46522	1135955	27.18%	0.742%
445	20.173	20.165	20.192	HH	46011	730534	17.48%	0.477%
446	20.206	20.192	20.222	HH	46285	820709	19.64%	0.536%
447	20.250	20.222	20.260	HH	47470	1080108	25.85%	0.706%
448	20.294	20.260	20.312	HH	51309	1539982	36.85%	1.006%
449	20.341	20.312	20.374	HH	69491	2154124	51.55%	1.407%
450	20.409	20.374	20.433	HH	53860	1818248	43.51%	1.188%
451	20.458	20.433	20.478	HH	51625	1410076	33.74%	0.921%
452	20.511	20.478	20.526	HH	53019	1478780	35.39%	0.966%
453	20.602	20.526	20.625	HH	57673	3327987	79.64%	2.174%
454	20.659	20.625	20.715	HH	76778	3350517	80.18%	2.189%
455	20.728	20.715	20.742	HH	57983	934789	22.37%	0.611%
456	20.810	20.742	20.820	HH	60773	2786674	66.69%	1.821%

					rters			
457	20.843	20.820	20.847	HH	61279	995947	23.83%	0.651%
458	20.871	20.847	20.899	HH	63506	1898879	45.44%	1.241%
459	20.916	20.899	20.937	HH	61023	1405820	33.64%	0.918%
460	20.963	20.937	20.995	HH	61252	2127140	50.90%	1.390%
461	20.999	20.995	21.005	HH	61001	365631	8.75%	0.239%
462	21.041	21.005	21.058	HH	65496	2020098	48.34%	1.320%
463	21.071	21.058	21.113	HH	64775	2071689	49.58%	1.353%
464	21.144	21.113	21.210	HH	66146	3600618	86.16%	2.352%
465	21.217	21.210	21.238	HH	60402	1024157	24.51%	0.669%
466	21.262	21.238	21.278	HH	60799	1424137	34.08%	0.930%
467	21.311	21.278	21.330	HH	61773	1927383	46.12%	1.259%
468	21.335	21.330	21.394	HH	61435	2321297	55.55%	1.517%
469	21.422	21.394	21.453	HH	60202	2108133	50.45%	1.377%
470	21.481	21.453	21.526	HH	60847	2624164	62.80%	1.714%
471	21.567	21.526	21.620	HH	64550	3484964	83.40%	2.277%
472	21.646	21.620	21.735	HH	62160	4178797	100.00%	2.730%
473	21.740	21.735	21.778	HH	59263	1515729	36.27%	0.990%
474	21.824	21.778	21.868	HH	62488	3232780	77.36%	2.112%
475	21.875	21.868	21.897	HH	58414	1024712	24.52%	0.669%
476	21.906	21.897	21.922	HH	58533	866100	20.73%	0.566%
477	21.965	21.922	21.997	HH	59775	2669855	63.89%	1.744%
478	22.029	21.997	22.042	HH	59081	1586345	37.96%	1.036%
479	22.049	22.042	22.117	HH	58928	2625244	62.82%	1.715%
480	22.138	22.117	22.158	HH	58059	1421673	34.02%	0.929%
481	22.168	22.158	22.173	HH	58070	521387	12.48%	0.341%
482	22.182	22.173	22.192	HH	58085	666468	15.95%	0.435%
483	22.198	22.192	22.205	HH	58109	464537	11.12%	0.303%
484	22.224	22.205	22.270	HH	58448	2262873	54.15%	1.478%
485	22.326	22.270	22.337	HH	58345	2339171	55.98%	1.528%
486	22.372	22.337	22.377	HH	58995	1375165	32.91%	0.898%
487	22.409	22.377	22.470	HH	61020	3340255	79.93%	2.182%
488	22.479	22.470	22.483	HH	58436	465208	11.13%	0.304%
489	22.489	22.483	22.495	HH	58521	411441	9.85%	0.269%
					Sum of corrected areas:		153063700	

FE012325.M Mon Feb 03 02:55:21 2025



CALIBRATION SUMMARY

TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: SCIA01
 ProjectID: 1063 Lafayette Ave, Hawthorne, NJ
 Lab Code: CHEM Case No.: Q1236 SAS No.: Q1236 SDG No.: Q1236

Calibration Sequence : FE012325		Test : TPH GC	
Concentration (PPM)	Area Count	Reference Factor	File ID
1700	159126227	93604	FE052027.D
850	78434502	92276	FE052028.D
340	32838892	96585	FE052029.D
170	18083163	106372	FE052030.D
85	8992058	105789	FE052031.D
AVG RF : 98925		% RSD : 6.792	AVG RT : 15.2554

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: SCIA01
ProjectID: 1063 Lafayette Ave, Hawthorne, NJ
Lab Code: CHEM Case No.: Q1236 SAS No.: Q1236 SDG No.: Q1236
DataFile: FE052192.D Analyst Name: YP\AJ Analyst Date: 02-01-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	78089754	91870	98925	7.132

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
 Data File : FE052192.D
 Signal(s) : FID1B.ch
 Acq On : 01 Feb 2025 00:13
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 99 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 50 PPM TRPH STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
 Quant Time: Feb 03 01:37:24 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:06:38 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.297	4384971	44.026 ug/ml
Target Compounds			
1) N-OCTANE	2.465	3888634	45.599 ug/ml
2) N-DECANE	4.960	4184778	45.733 ug/ml
3) N-DODECANE	7.085	4509212	45.130 ug/ml
4) N-TETRADECANE	8.889	4547342	44.692 ug/ml
5) N-HEXADECANE	10.481	4745501	44.534 ug/ml
6) N-OCTADECANE	11.912	4975581	44.377 ug/ml
7) N-EICOSANE	13.212	4922686	44.198 ug/ml
8) N-DOCOSANE	14.404	4870225	43.864 ug/ml
10) N-TETRACOSANE	15.501	4877692	44.098 ug/ml
11) N-HEXACOSANE	16.516	4810955	44.133 ug/ml
12) N-OCTACOSANE	17.462	4782342	44.306 ug/mlm
13) N-TRIACONTANE	18.346	4774961	44.501 ug/mlm
14) N-DOTRIACONTANE	19.175	4726668	45.267 ug/mlm
15) N-TETRATRIACONTANE	19.957	4478883	47.696 ug/ml
16) N-HEXATRIACONTANE	20.695	4294850	53.185 ug/ml
17) N-OCTATRIACONTANE	21.491	4261353	57.115 ug/ml
18) N-TETRACONTANE	22.509	4438091	60.263 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052192.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 00:13
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

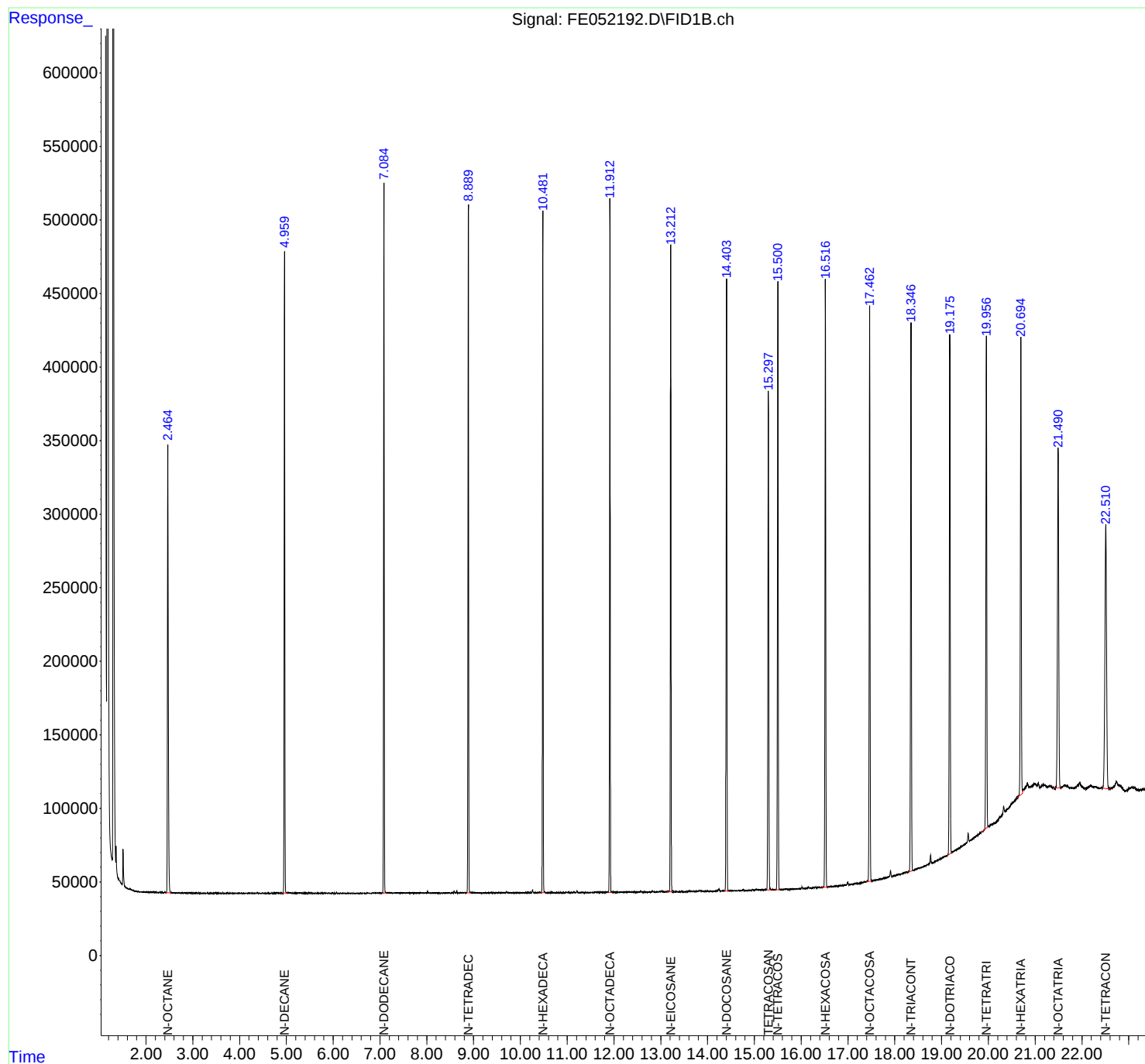
Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Feb 03 01:37:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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



nteres

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052192.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 00:13
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.465	2.424	2.546	BB	304267	3888634	78.15%	4.716%
2	4.960	4.921	5.023	BB	436260	4184778	84.11%	5.075%
3	7.085	7.042	7.139	BB	481451	4509212	90.63%	5.469%
4	8.889	8.844	8.941	BB	467564	4547342	91.39%	5.515%
5	10.481	10.435	10.539	BB	462954	4745501	95.38%	5.756%
6	11.912	11.862	11.960	BB	471389	4975581	100.00%	6.035%
7	13.212	13.121	13.259	BB	439896	4922686	98.94%	5.970%
8	14.404	14.366	14.455	BB	416376	4870225	97.88%	5.907%
9	15.297	15.257	15.377	BV	339019	4384971	88.13%	5.318%
10	15.501	15.422	15.539	BB	413865	4877692	98.03%	5.916%
11	16.516	16.447	16.566	BB	412153	4810955	96.69%	5.835%
12	17.462	17.210	17.522	BB	390940	4789372	96.26%	5.809%
13	18.346	17.962	18.388	BV	372562	4762639	95.72%	5.776%
14	19.176	18.798	19.217	PV	352292	4708237	94.63%	5.710%
15	19.957	19.851	19.991	BV	332501	4478883	90.02%	5.432%
16	20.695	20.607	20.732	BV	310985	4294850	86.32%	5.209%
17	21.491	21.390	21.554	BV	230545	4261353	85.65%	5.168%
18	22.509	22.425	22.609	BV	179337	4438091	89.20%	5.383%
Sum of corrected areas:							82451002	

FE012325.M Mon Feb 03 02:08:42 2025

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Chemtech Contract: SCIA01
ProjectID: 1063 Lafayette Ave, Hawthorne, NJ
Lab Code: CHEM Case No.: Q1236 SAS No.: Q1236 SDG No.: Q1236
DataFile: FE052201.D Analyst Name: YP\AJ Analyst Date: 02-01-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	78732712	92627	98925	6.366

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
 Data File : FE052201.D
 Signal(s) : FID1B.ch
 Acq On : 01 Feb 2025 06:15
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 99 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 50 PPM TRPH STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
 Quant Time: Feb 03 01:38:34 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:06:38 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.292	4431302	44.492 ug/ml
Target Compounds			
1) N-OCTANE	2.461	3880824	45.507 ug/ml
2) N-DECANE	4.956	4181346	45.696 ug/ml
3) N-DODECANE	7.081	4515996	45.198 ug/ml
4) N-TETRADECANE	8.884	4560426	44.821 ug/ml
5) N-HEXADECANE	10.476	4764410	44.712 ug/ml
6) N-OCTADECANE	11.907	5014915	44.727 ug/ml
7) N-EICOSANE	13.208	4953749	44.476 ug/ml
8) N-DOCOSANE	14.398	4914684	44.264 ug/ml
10) N-TETRACOSANE	15.496	4926260	44.537 ug/ml
11) N-HEXACOSANE	16.511	4862082	44.602 ug/ml
12) N-OCTACOSANE	17.456	4841810	44.857 ug/ml
13) N-TRIACONTANE	18.340	4835097	45.062 ug/ml
14) N-DOTRIACONTANE	19.169	4788687	45.861 ug/mlm
15) N-TETRATRIACONTANE	19.952	4540806	48.355 ug/ml
16) N-HEXATRIACONTANE	20.688	4262317	52.782 ug/ml
17) N-OCTATRIACONTANE	21.484	4303860	57.685 ug/ml
18) N-TETRACONTANE	22.500	4585443	62.264 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052201.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 06:15
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

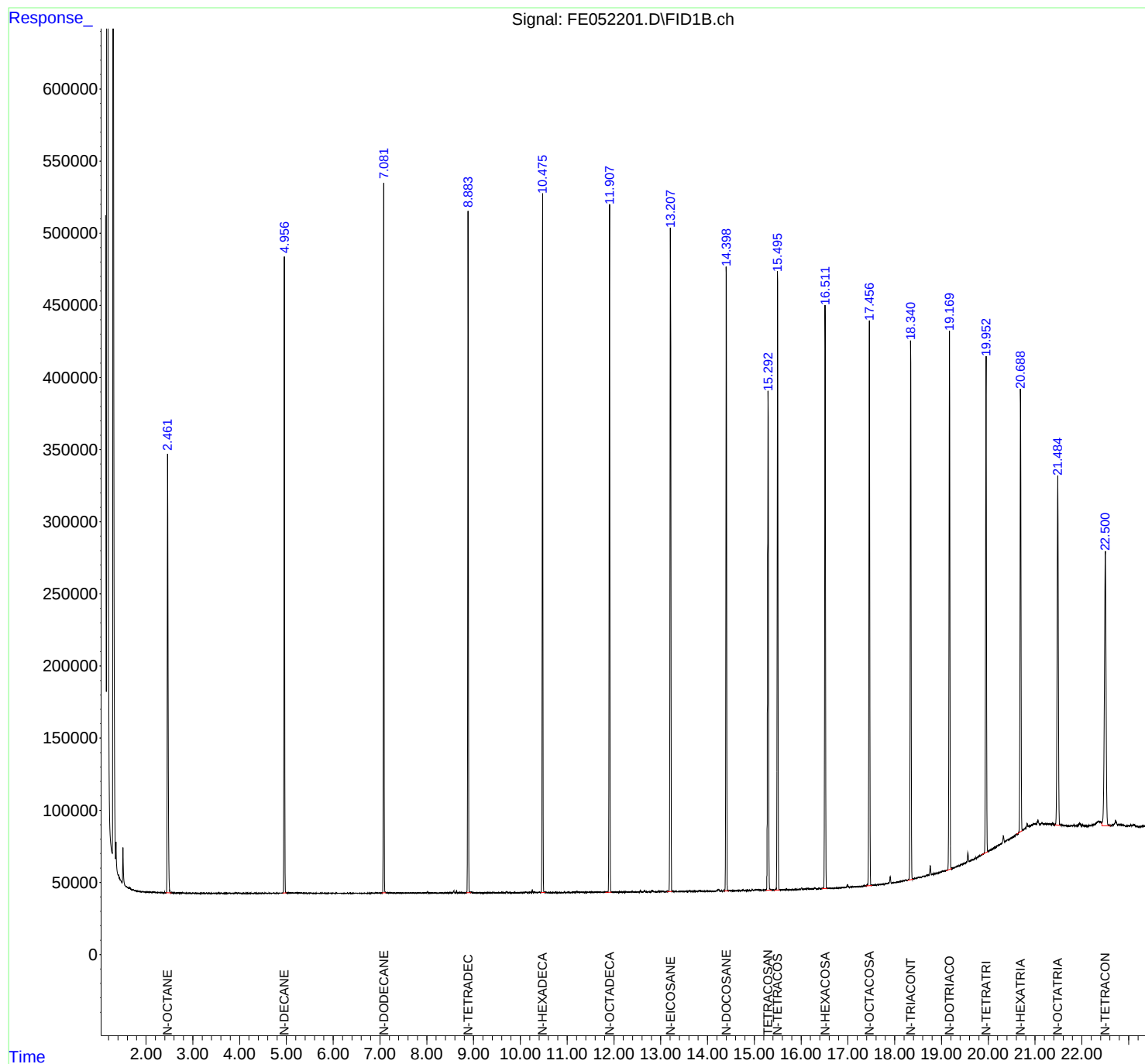
Instrument :
FID_E
ClientSampleId :
50 PPM TRPH STD

Manual Integrations
APPROVED

Reviewed By : Yogesh Patel 02/03/2025
Supervised By : Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Feb 03 01:38:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052201.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 06:15
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 99 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.461	2.420	2.545	BB	304049	3880824	77.39%	4.666%
2	4.956	4.917	5.004	BB	440748	4181346	83.38%	5.027%
3	7.081	7.042	7.127	BB	491472	4515996	90.05%	5.429%
4	8.884	8.844	8.942	BB	470887	4560426	90.94%	5.483%
5	10.476	10.436	10.527	BB	483557	4764410	95.00%	5.728%
6	11.907	11.813	11.951	BB	476457	5014915	100.00%	6.029%
7	13.208	13.134	13.248	BB	459246	4953749	98.78%	5.956%
8	14.398	14.356	14.448	BB	431732	4914684	98.00%	5.909%
9	15.292	15.247	15.367	BV	345697	4431302	88.36%	5.328%
10	15.496	15.422	15.548	BB	428498	4926260	98.23%	5.923%
11	16.511	16.442	16.557	BB	404272	4862082	96.95%	5.845%
12	17.456	17.378	17.517	BB	391365	4841810	96.55%	5.821%
13	18.340	18.267	18.396	BV	373145	4835097	96.41%	5.813%
14	19.169	18.800	19.212	BV	372870	4801595	95.75%	5.773%
15	19.952	19.851	19.988	BV	343669	4540806	90.55%	5.459%
16	20.688	20.607	20.723	BV	306140	4262317	84.99%	5.124%
17	21.484	21.417	21.535	BB	242126	4303860	85.82%	5.174%
18	22.500	22.426	22.617	VV	190618	4585443	91.44%	5.513%
Sum of corrected areas:						83176924		

FE012325.M Mon Feb 03 02:11:20 2025

Analytical Sequence

Client: Sciacca General Contractors, LLC

SDG No.: Q1236

Project: 1063 Lafayette Ave, Hawthorne, NJ

Instrument ID: FID_E

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 15.2554					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	31 Jan 2025 23:13	FE052191.D	15.296	
50 PPM TRPH STD	50 PPM TRPH STD	01 Feb 2025 00:13	FE052192.D	15.297	
PB166433BL	PB166433BL	01 Feb 2025 02:14	FE052194.D	15.293	
PB166433BS	PB166433BS	01 Feb 2025 02:44	FE052195.D	15.293	
WASTE	Q1236-01	01 Feb 2025 03:15	FE052196.D	15.292	
WASTEMS	Q1236-01MS	01 Feb 2025 03:45	FE052197.D	15.292	
WASTEMSD	Q1236-01MSD	01 Feb 2025 04:15	FE052198.D	15.291	
PIBLK02	LBLK02	01 Feb 2025 05:15	FE052200.D	15.291	
50 PPM TRPH STD	50 PPM TRPH STD	01 Feb 2025 06:15	FE052201.D	15.292	



QC SAMPLE DATA

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:		
Project:	1063 Lafayette Ave, Hawthorne, NJ		Date Received:		
Client Sample ID:	PB166433BL		SDG No.:	Q1236	
Lab Sample ID:	PB166433BL		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	100	Decanted:
Sample Wt/Vol:	30.02	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
FE052194.D	1	01/31/25 12:05	02/01/25 2:14	PB166433

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	19.0		37 - 130	95%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052194.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 02:14
Operator : YP\AJ
Sample : PB166433BL
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB166433BL

Integration File: autoint1.e
Quant Time: Feb 03 00:16:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.293	1893146	19.008 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

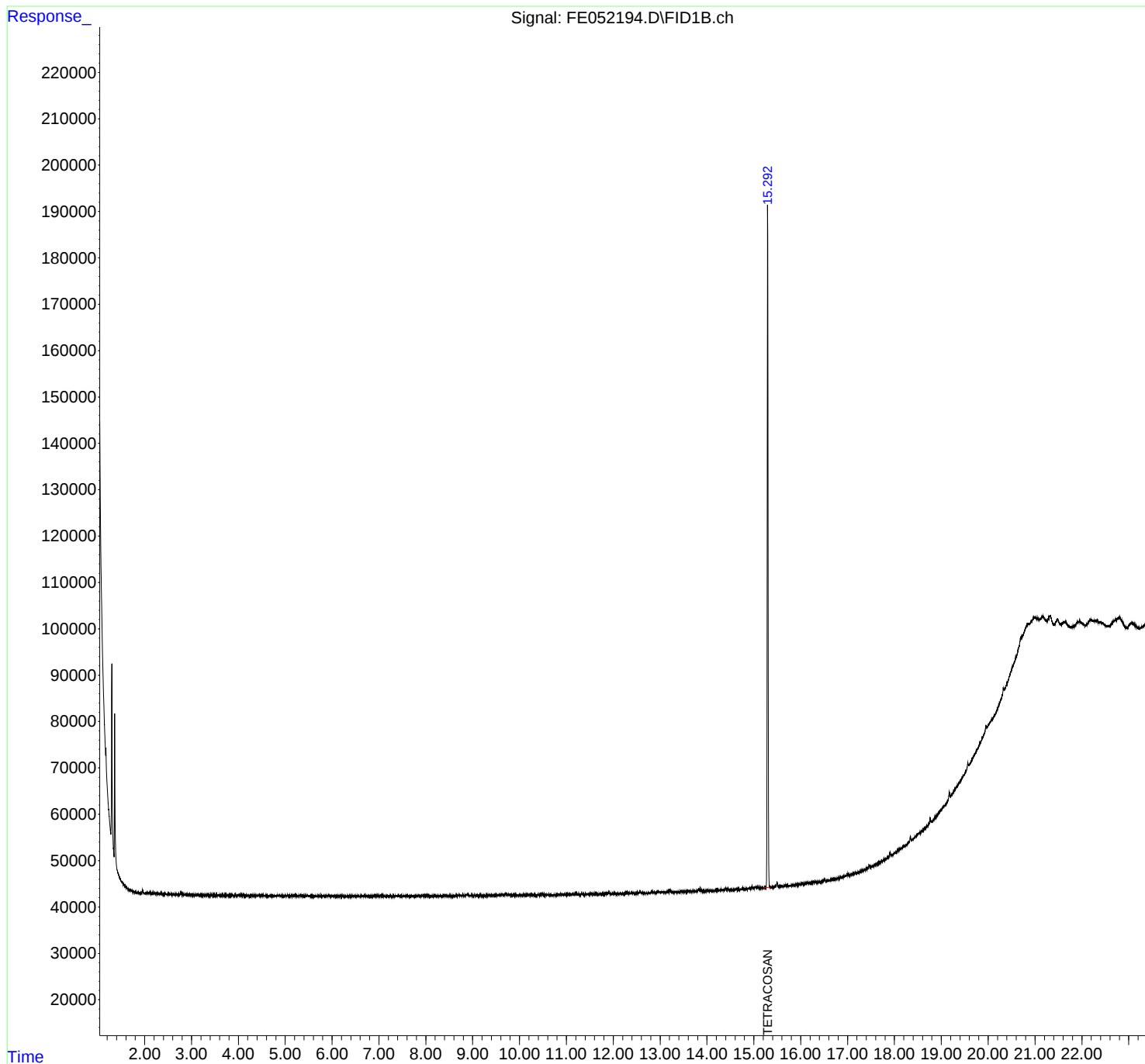
(m)=manual int.

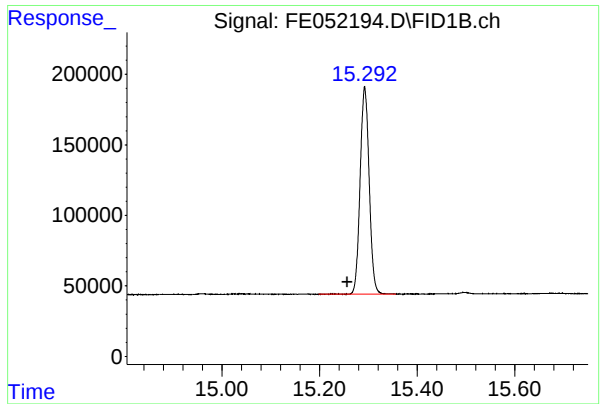
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052194.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 02:14
Operator : YP\AJ
Sample : PB166433BL
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB166433BL

Integration File: autoint1.e
Quant Time: Feb 03 00:16:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.293 min
Delta R.T.: 0.036 min
Response: 1893146
Conc: 19.01 ug/ml

Instrument :
FID_E
ClientSampleId :
PB166433BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052194.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 02:14
Sample : PB166433BL
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.293	15.199	15.356	BB	147183	1893146	100.00%	100.000%
Sum of corrected areas:						1893146		

FE012325.M Mon Feb 03 02:09:26 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	01/31/25
Project:	1063 Lafayette Ave, Hawthorne, NJ	Date Received:	01/31/25
Client Sample ID:	PIBLK-FE052191.D	SDG No.:	Q1236
Lab Sample ID:	I.BLK-FE052191.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
FE052191.D	1		01/31/25	FE013125

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	17.4		29 - 130	87%	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_E\Data\FE013125\
Data File : FE052191.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 23:13
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 96 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 03 00:15:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.296	1736385	17.434 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

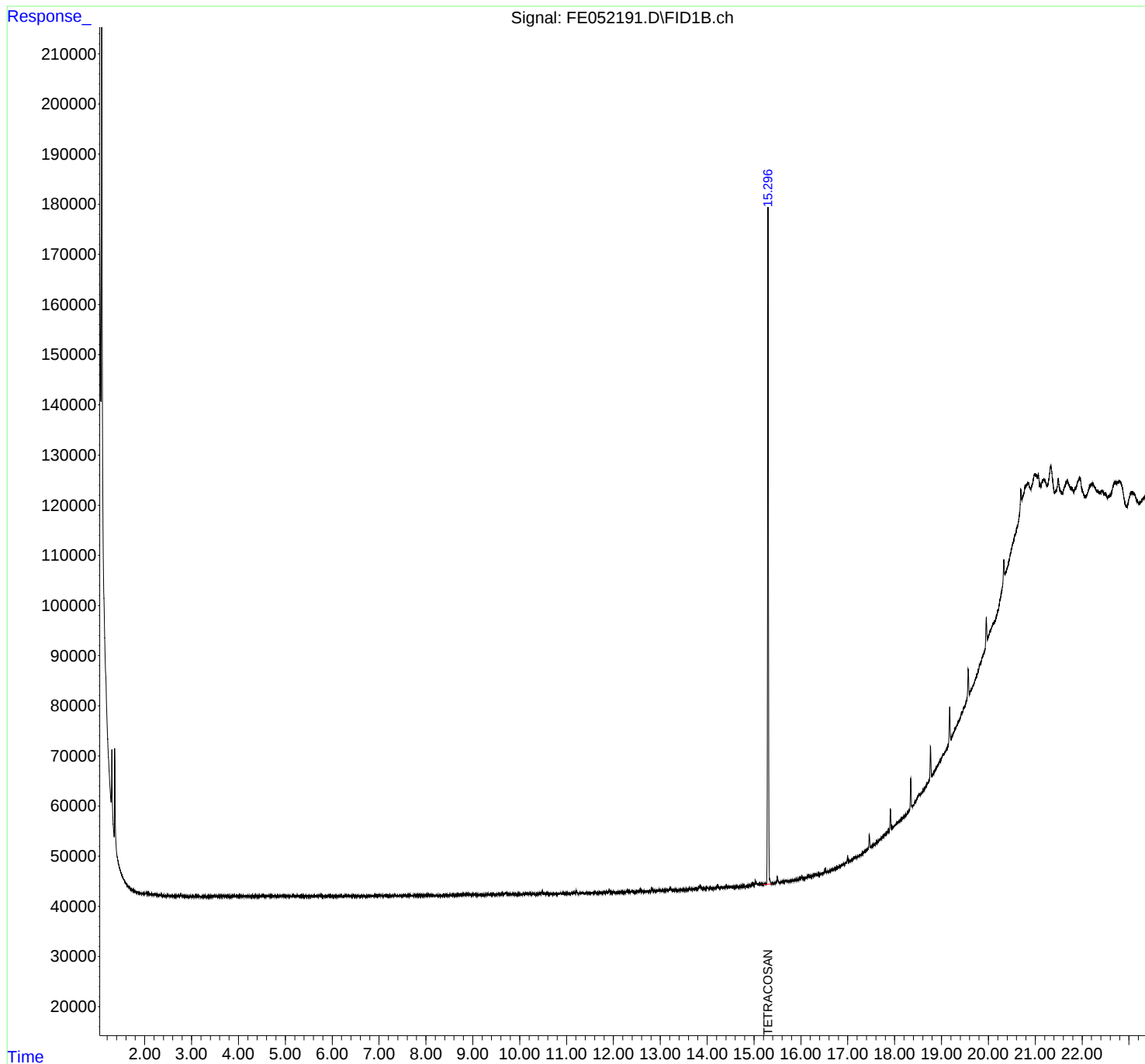
(m)=manual int.

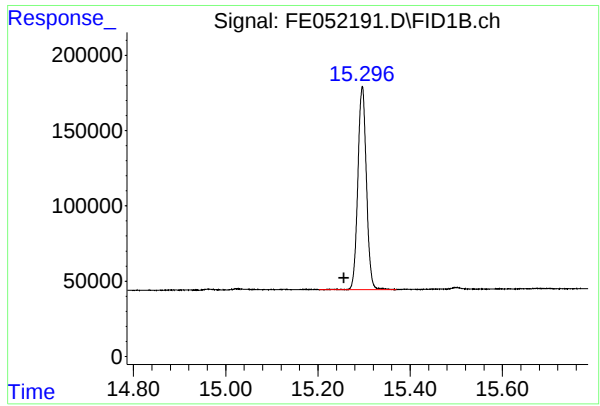
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052191.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 23:13
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 96 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 03 00:15:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.296 min
Delta R.T.: 0.039 min
Response: 1736385
Conc: 17.43 ug/ml

Instrument :
FID_E
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052191.D
Signal(s) : FID1B.ch
Acq On : 31 Jan 2025 23:13
Sample : I.BLK
Misc :
ALS Vial : 96 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.296	15.202	15.369	BB	134974	1736385	100.00%	100.000%
Sum of corrected areas:						1736385		

FE012325.M Mon Feb 03 02:07:54 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	02/01/25
Project:	1063 Lafayette Ave, Hawthorne, NJ	Date Received:	02/01/25
Client Sample ID:	PIBLK-FE052200.D	SDG No.:	Q1236
Lab Sample ID:	I.BLK-FE052200.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TPH GC
GPC Factor :		Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052200.D	1		02/01/25	FE013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	9.00	U	9.00	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	17.5		29 - 130	88%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052200.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 05:15
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 96 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Feb 03 00:18:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.290	1746092	17.531 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052200.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 05:15
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 96 Sample Multiplier: 1

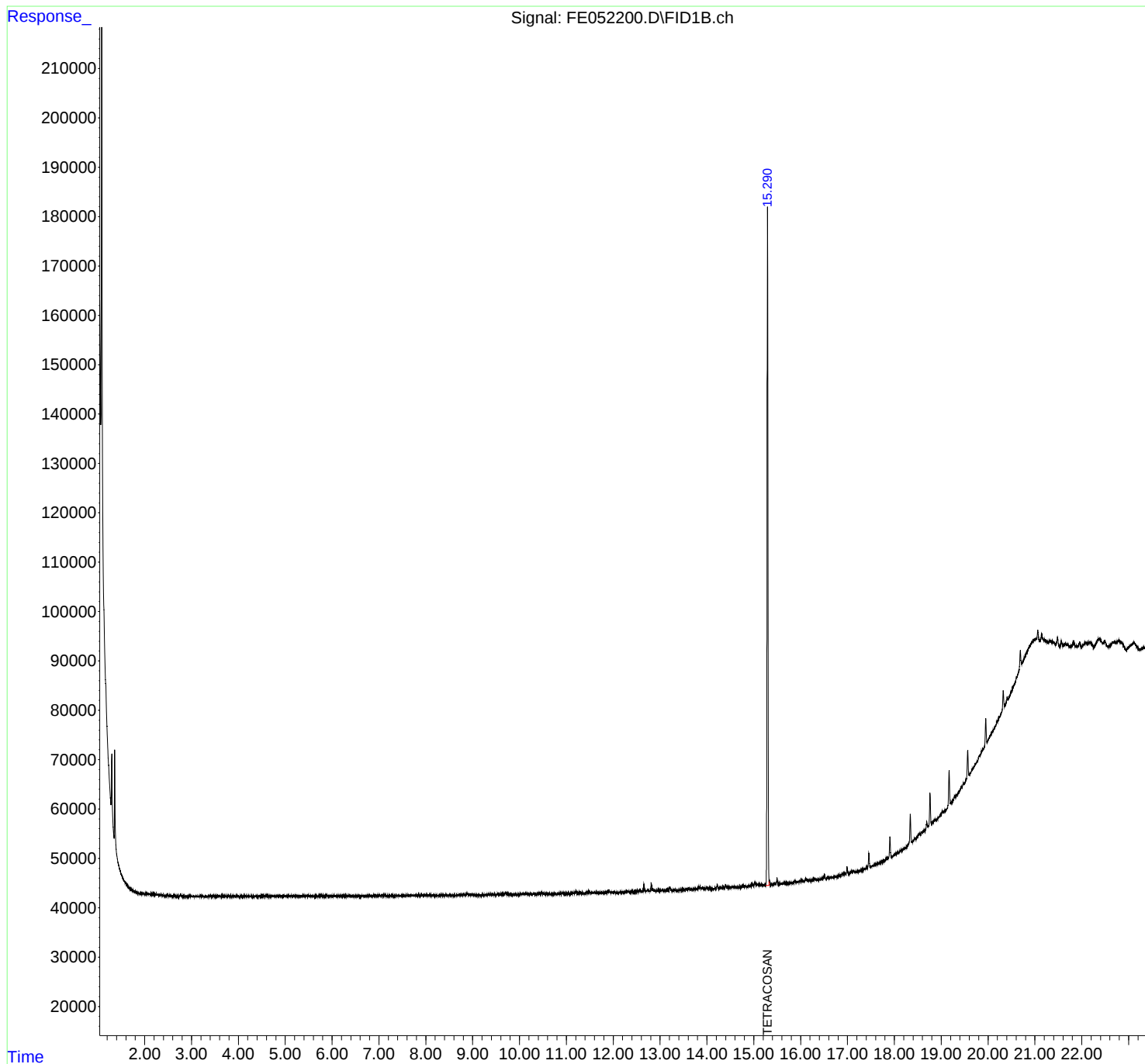
Instrument :
FID_E
ClientSampleId :
I.BLK

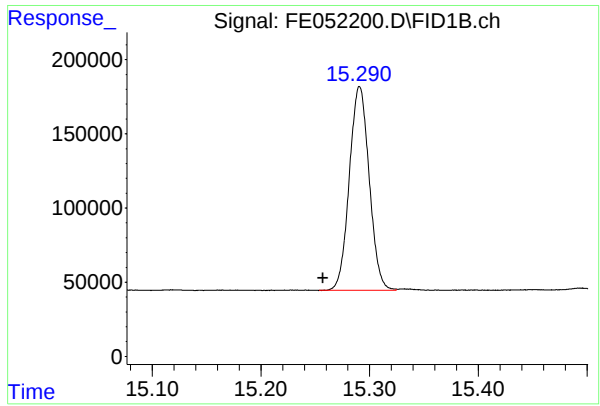
Manual Integrations
APPROVED

Reviewed By : Yogesh Patel 02/03/2025
Supervised By : Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Feb 03 00:18:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.290 min
Delta R.T.: 0.033 min
Response: 1746092
Conc: 17.53 ug/ml

Instrument :

FID_E

ClientSampleId :

I.BLK

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

rteres

Instrument :
FID_E
LabSampleId :
I.BLK

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052200.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 05:15
Sample : I.BLK
Misc :
ALS Vial : 96 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.291	15.244	15.366	BB	137321	1751985	100.00%	100.000%
Sum of corrected areas:						1751985		

FE012325.M Mon Feb 03 02:10:44 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC		Date Collected:		
Project:	1063 Lafayette Ave, Hawthorne, NJ		Date Received:		
Client Sample ID:	PB166433BS		SDG No.:	Q1236	
Lab Sample ID:	PB166433BS		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
FE052195.D	1	01/31/25 12:05	02/01/25 2:44	PB166433

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	11300		318	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.2		37 - 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_E\Data\FE013125\
 Data File : FE052195.D
 Signal(s) : FID1B.ch
 Acq On : 01 Feb 2025 02:44
 Operator : YP\AJ
 Sample : PB166433BS
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :

FID_E

ClientSampleId :

PB166433BS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
 Quant Time: Feb 03 01:51:56 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:06:38 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.293	1813950	18.213 ug/ml
Target Compounds			
1) N-OCTANE	2.463	1228987	14.411 ug/ml
2) N-DECANE	4.957	1626409	17.774 ug/ml
3) N-DODECANE	7.081	1775340	17.768 ug/ml
4) N-TETRADECANE	8.885	1896312	18.637 ug/ml
5) N-HEXADECANE	10.476	1988968	18.665 ug/ml
6) N-OCTADECANE	11.908	2071546	18.476 ug/ml
7) N-EICOSANE	13.208	2118522	19.021 ug/ml
8) N-DOCOSANE	14.399	2063610	18.586 ug/ml
10) N-TETRACOSANE	15.496	2065317	18.672 ug/ml
11) N-HEXACOSANE	16.511	2047816	18.786 ug/ml
12) N-OCTACOSANE	17.456	2022219	18.735 ug/ml
13) N-TRIACONTANE	18.341	2045808	19.066 ug/ml
14) N-DOTRIACONTANE	19.170	2050894	19.641 ug/mlm
15) N-TETRATRIACONTANE	19.951	2060516	21.943 ug/ml
16) N-HEXATRIACONTANE	20.689	2084984	25.819 ug/ml
17) N-OCTATRIACONTANE	21.484	2173480	29.131 ug/ml
18) N-TETRACONTANE	22.502	2228470	30.260 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052195.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 02:44
Operator : YP\AJ
Sample : PB166433BS
Misc :
ALS Vial : 29 Sample Multiplier: 1

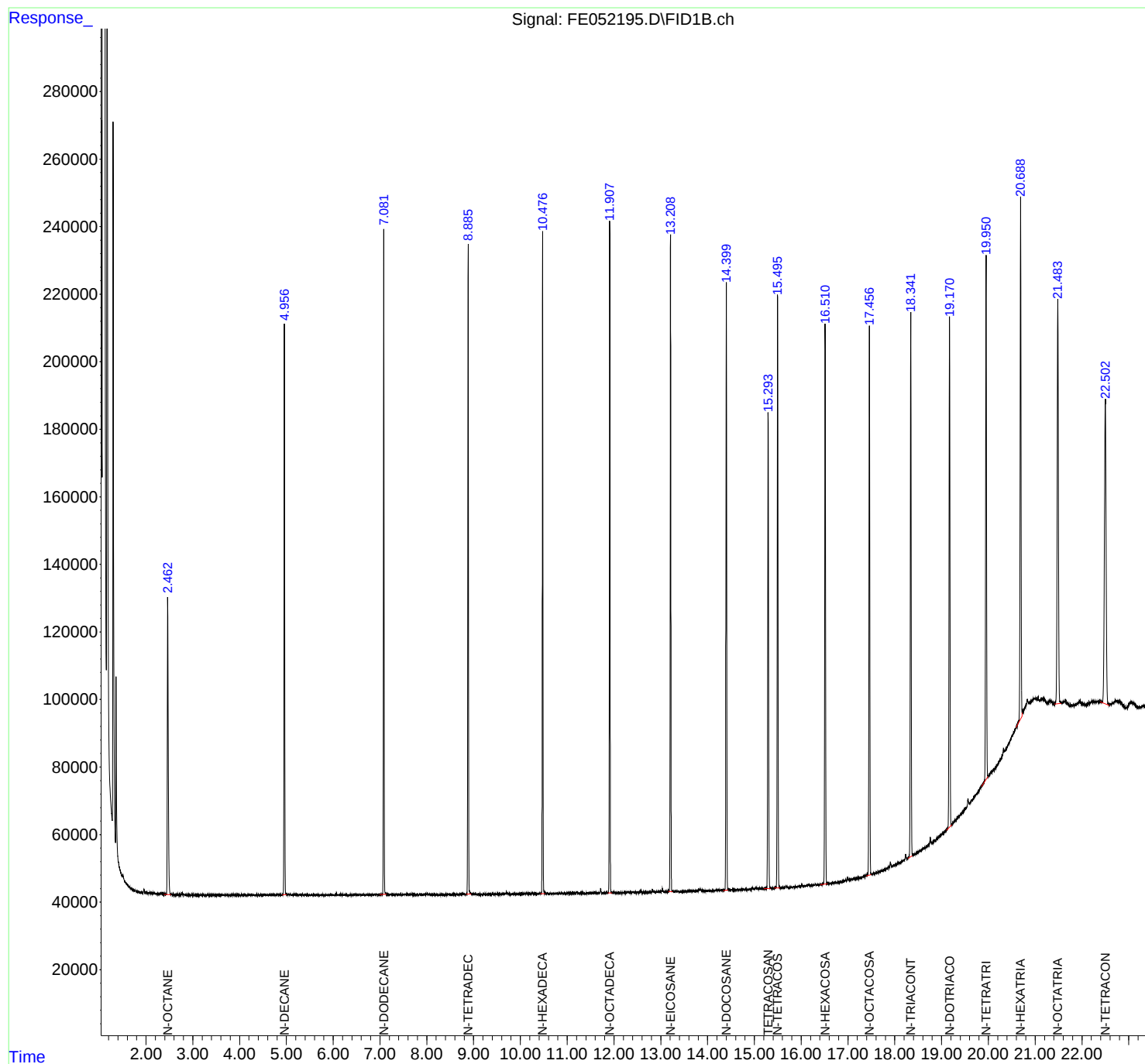
Instrument :
FID_E
ClientSampleId :
PB166433BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Feb 03 01:51:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_E

ClientSampleId :

PB166433BS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052195.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 02:44
Sample : PB166433BS
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.463	2.379	2.533	BB	87908	1228987	55.15%	3.480%
2	4.957	4.920	4.998	BB	168972	1626409	72.98%	4.605%
3	7.081	6.998	7.132	BB	197185	1775340	79.67%	5.026%
4	8.885	8.847	8.943	BB	192533	1896312	85.09%	5.369%
5	10.476	10.435	10.531	BB	195900	1988968	89.25%	5.631%
6	11.908	11.867	11.952	BB	198528	2071546	92.96%	5.865%
7	13.208	13.167	13.252	BB	194511	2118522	95.07%	5.998%
8	14.399	14.332	14.437	BB	179946	2063610	92.60%	5.843%
9	15.293	15.206	15.342	BB	140764	1813950	81.40%	5.136%
10	15.496	15.431	15.539	BB	175630	2065317	92.68%	5.847%
11	16.511	16.414	16.558	BB	165552	2047816	91.89%	5.798%
12	17.456	17.387	17.494	BB	162180	2022219	90.74%	5.725%
13	18.341	18.277	18.375	BB	160902	2045808	91.80%	5.792%
14	19.170	18.804	19.206	BV	150453	2008030	90.11%	5.685%
15	19.951	19.851	19.992	BV	155147	2060516	92.46%	5.834%
16	20.689	20.601	20.722	BV	154165	2084984	93.56%	5.903%
17	21.484	21.410	21.554	BB	119665	2173480	97.53%	6.154%
18	22.502	22.395	22.593	BV	90087	2228470	100.00%	6.309%
Sum of corrected areas:							35320284	

FE012325.M Mon Feb 03 02:10:00 2025

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	01/30/25
Project:	1063 Lafayette Ave, Hawthorne, NJ	Date Received:	01/30/25
Client Sample ID:	WASTEMS	SDG No.:	Q1236
Lab Sample ID:	Q1236-01MS	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	81.6
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	TPH GC
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052197.D	1	01/31/25 12:05	02/01/25 3:45	PB166433

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	72700	E	389	3470	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	11.1		37 - 130	55%	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_E\Data\FE013125\
 Data File : FE052197.D
 Signal(s) : FID1B.ch
 Acq On : 01 Feb 2025 03:45
 Operator : YP\AJ
 Sample : Q1236-01MS
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 WASTEMS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
 Quant Time: Feb 03 01:37:51 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:06:38 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.292	1103666	11.081 ug/ml
Target Compounds			
1) N-OCTANE	2.462	1294562	15.180 ug/ml
2) N-DECANE	4.956	1596470	17.447 ug/ml
3) N-DODECANE	7.082	1701305	17.027 ug/ml
4) N-TETRADECANE	8.885	1845504	18.138 ug/ml
5) N-HEXADECANE	10.477	1845637	17.320 ug/ml
6) N-OCTADECANE	11.907	1980348	17.663 ug/mlm
7) N-EICOSANE	13.208	2010703	18.053 ug/ml
8) N-DOCOSANE	14.398	1920485	17.297 ug/ml
10) N-TETRACOSANE	15.496	2068947	18.705 ug/ml
11) N-HEXACOSANE	16.511	1912793	17.547 ug/ml
12) N-OCTACOSANE	17.457	1891902	17.527 ug/mlm
13) N-TRIACONTANE	18.342	2037338	18.987 ug/ml
14) N-DOTRIACONTANE	19.171	2108340	20.192 ug/ml
15) N-TETRATRIACONTANE	19.951	2075862	22.106 ug/mlm
16) N-HEXATRIACONTANE	20.689	2452218	30.367 ug/mlm
17) N-OCTATRIACONTANE	21.485	2333177	31.272 ug/ml
18) N-TETRACONTANE	22.500	2399881	32.587 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052197.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 03:45
Operator : YP\AJ
Sample : Q1236-01MS
Misc :
ALS Vial : 31 Sample Multiplier: 1

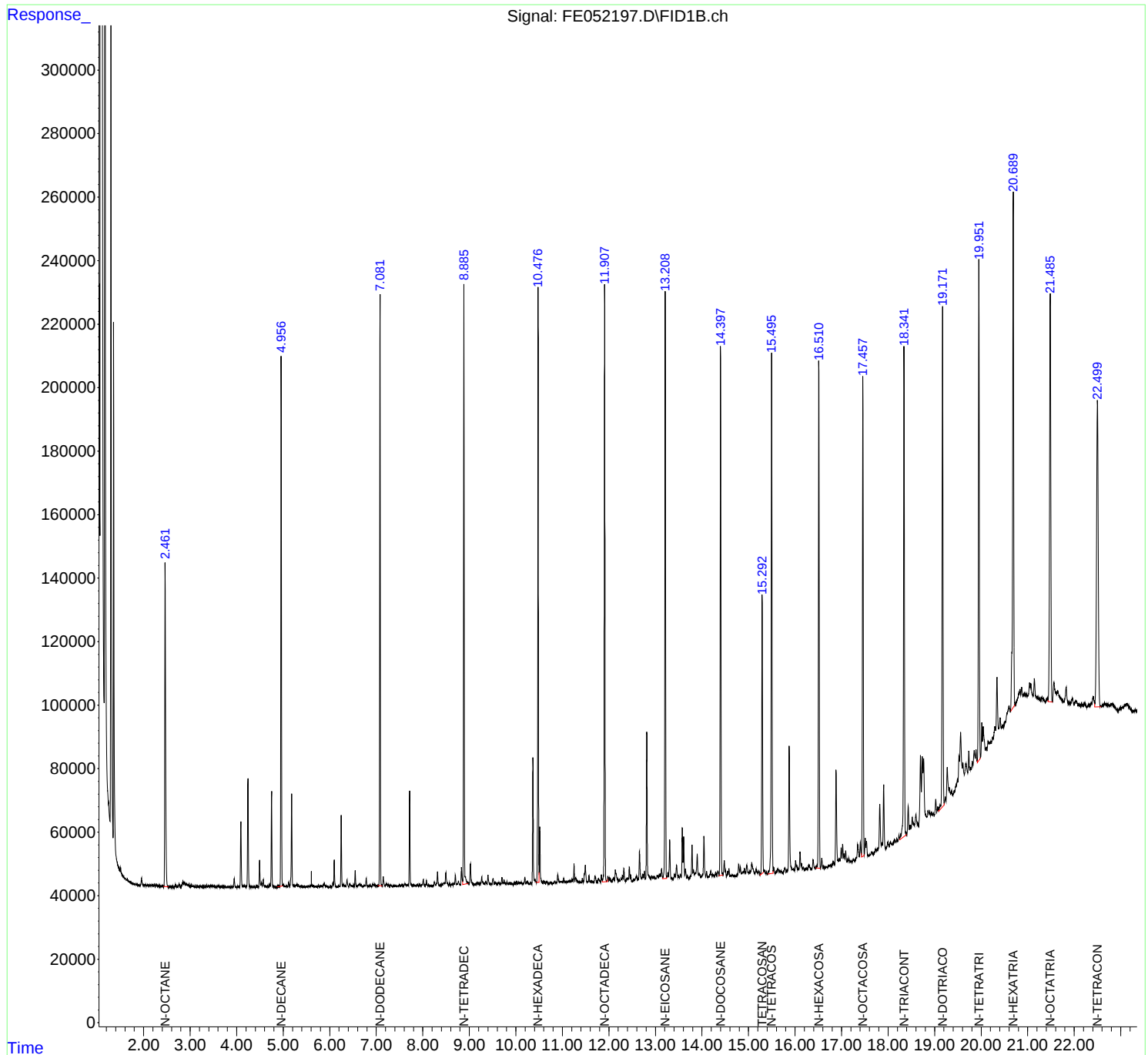
Instrument :
FID_E
ClientSampleId :
WASTEMS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Feb 03 01:37:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_E

ClientSampleId :

WASTEMS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052197.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 03:45
Sample : Q1236-01MS
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.462	2.452	2.530	PH	102021	1239125	21.25%	0.698%
2	2.536	2.530	2.567	VV	257	3399	0.06%	0.002%
3	2.576	2.567	2.581	VV	216	823	0.01%	0.000%
4	2.585	2.581	2.605	VV	75	612	0.01%	0.000%
5	2.609	2.605	2.620	PV	119	258	0.00%	0.000%
6	2.629	2.620	2.671	PV	170	1922	0.03%	0.001%
7	2.685	2.671	2.733	VV	786	12008	0.21%	0.007%
8	2.760	2.733	2.800	VV	895	13418	0.23%	0.008%
9	2.846	2.800	2.959	VV	1394	81206	1.39%	0.046%
10	2.962	2.959	2.968	VV	553	2883	0.05%	0.002%
11	2.971	2.968	3.002	VV	566	8653	0.15%	0.005%
12	3.006	3.002	3.016	VV	428	2533	0.04%	0.001%
13	3.020	3.016	3.066	VV	461	9021	0.15%	0.005%
14	3.067	3.066	3.091	VV	355	3160	0.05%	0.002%
15	3.093	3.091	3.102	VV	267	1304	0.02%	0.001%
16	3.107	3.102	3.126	VV	237	1782	0.03%	0.001%
17	3.157	3.126	3.197	VV	345	7839	0.13%	0.004%
18	3.200	3.197	3.205	VV	148	322	0.01%	0.000%
19	3.228	3.205	3.236	PV	250	2461	0.04%	0.001%
20	3.249	3.236	3.267	VV	187	1943	0.03%	0.001%
21	3.280	3.267	3.308	VV	190	2383	0.04%	0.001%
22	3.330	3.308	3.343	VV	267	3135	0.05%	0.002%
23	3.348	3.343	3.368	VV	337	3227	0.06%	0.002%
24	3.388	3.368	3.425	VV	368	7277	0.12%	0.004%
25	3.465	3.425	3.507	VV	443	10890	0.19%	0.006%
26	3.511	3.507	3.515	VV	153	495	0.01%	0.000%
27	3.519	3.515	3.525	VV	111	466	0.01%	0.000%
28	3.530	3.525	3.536	VV	129	432	0.01%	0.000%
29	3.545	3.536	3.574	PV	104	977	0.02%	0.001%
30	3.594	3.574	3.612	PV	371	4418	0.08%	0.002%
31	3.617	3.612	3.642	VV	220	1740	0.03%	0.001%
32	3.647	3.642	3.691	PV	76	449	0.01%	0.000%
33	3.697	3.691	3.704	PV	3	-246	-0.00%	-0.000%
34	3.728	3.704	3.752	PV	251	1385	0.02%	0.001%
35	3.757	3.752	3.770	PV	15	-331	-0.01%	-0.000%
36	3.775	3.770	3.797	PV	-20	-598	-0.01%	-0.000%

					rters				
37	3.803	3.797	3.830	PV	10	-708	-0.01%	-0.000%	
38	3.857	3.830	3.874	PV	95	251			
39	3.881	3.874	3.889	PV	89	264			
40	3.893	3.889	3.901	PV	156	234			
41	3.907	3.901	3.920	PV	88	465			
42	3.947	3.920	3.994	VV	2588	31035			
43	4.019	3.994	4.049	PV	75	167	0.00%	0.000%	
44	4.090	4.049	4.133	PV	20523	232856	3.99%	0.131%	
45	4.139	4.133	4.145	VV	267	1458	0.03%	0.001%	
46	4.166	4.145	4.208	VV	378	7729	0.13%	0.004%	
47	4.242	4.208	4.293	VV	34078	384662	6.60%	0.217%	
48	4.297	4.293	4.301	PV	94	232	0.00%	0.000%	
49	4.305	4.301	4.312	VV	91	432	0.01%	0.000%	
50	4.321	4.312	4.359	VV	110	501	0.01%	0.000%	
51	4.369	4.359	4.382	PV	129	517	0.01%	0.000%	
52	4.386	4.382	4.392	PV	64	-132	-0.00%	-0.000%	
53	4.412	4.392	4.435	PV	238	1948	0.03%	0.001%	
54	4.442	4.435	4.447	PV	93	74	0.00%	0.000%	
55	4.450	4.447	4.454	PV	63	-58	-0.00%	-0.000%	
56	4.457	4.454	4.469	PV	68	-240	-0.00%	-0.000%	
57	4.492	4.469	4.519	PV	8469	88338	1.51%	0.050%	
58	4.532	4.519	4.553	VV	1435	18893	0.32%	0.011%	
59	4.570	4.553	4.601	VV	2299	28099	0.48%	0.016%	
60	4.607	4.601	4.614	VV	276	1690	0.03%	0.001%	
61	4.617	4.614	4.645	VV	217	2160	0.04%	0.001%	
62	4.666	4.645	4.671	VV	281	1980	0.03%	0.001%	
63	4.703	4.671	4.720	VV	657	9293	0.16%	0.005%	
64	4.750	4.720	4.799	VV	30104	295600	5.07%	0.167%	
65	4.807	4.799	4.840	VV	150	1522	0.03%	0.001%	
66	4.858	4.840	4.865	PH	113	691	0.01%	0.000%	
67	4.869	4.865	4.883	PH	140	656	0.01%	0.000%	
68	4.907	4.883	4.927	PH	331	4651	0.08%	0.003%	
69	4.956	4.927	4.990	HH	167552	1604941	27.52%	0.904%	
70	5.002	4.990	5.030	HH	619	9467	0.16%	0.005%	
71	5.043	5.030	5.060	HH	294	3682	0.06%	0.002%	
72	5.072	5.060	5.090	HH	364	4481	0.08%	0.003%	
73	5.117	5.090	5.140	HH	1606	18953	0.32%	0.011%	
74	5.182	5.140	5.218	HH	29367	315910	5.42%	0.178%	
75	5.236	5.218	5.257	HH	557	8495	0.15%	0.005%	
76	5.272	5.257	5.280	HH	572	6074	0.10%	0.003%	
77	5.300	5.280	5.315	HH	658	10346	0.18%	0.006%	
78	5.324	5.315	5.352	HH	477	6710	0.12%	0.004%	
79	5.367	5.352	5.393	HH	272	3526	0.06%	0.002%	
80	5.408	5.393	5.417	HH	260	2375	0.04%	0.001%	
81	5.418	5.417	5.429	HH	227	771	0.01%	0.000%	
82	5.442	5.429	5.447	HH	106	557	0.01%	0.000%	
83	5.462	5.447	5.495	HH	161	2904	0.05%	0.002%	
84	5.498	5.495	5.520	HH	119	1252	0.02%	0.001%	
85	5.541	5.520	5.560	PH	310	3868	0.07%	0.002%	
86	5.574	5.560	5.586	HH	420	4188	0.07%	0.002%	
87	5.605	5.586	5.614	HH	3180	8968	0.15%	0.005%	
88	5.622	5.614	5.640	HH	368	3497	0.06%	0.002%	
89	5.649	5.640	5.674	HH	559	3214	0.06%	0.002%	

Instrument :

FID_E

ClientSampleId :

WASTEMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

					rters			
90	5.692	5.674	5.709	HH	277	2972	0.05%	0.002%
91	5.711	5.709	5.724	HH	142	843		
92	5.729	5.724	5.737	PH	130	487		
93	5.759	5.737	5.782	HH	439	6014		
94	5.793	5.782	5.807	HH	346	2788		
95	5.810	5.807	5.817	HH	167	706		
96	5.830	5.817	5.852	HH	418	5569	0.10%	0.003%
97	5.880	5.852	5.908	HH	1173	21487	0.37%	0.012%
98	5.917	5.908	5.926	HH	331	2292	0.04%	0.001%
99	5.930	5.926	5.950	HH	237	2171	0.04%	0.001%
100	5.953	5.950	5.994	HH	147	1354	0.02%	0.001%
101	6.030	5.994	6.050	HH	282	3699	0.06%	0.002%
102	6.069	6.050	6.080	HH	1403	13765	0.24%	0.008%
103	6.097	6.080	6.152	HH	8530	88757	1.52%	0.050%
104	6.160	6.152	6.169	HH	133	905	0.02%	0.001%
105	6.190	6.169	6.208	HH	371	4864	0.08%	0.003%
106	6.214	6.208	6.221	HH	243	1541	0.03%	0.001%
107	6.247	6.221	6.288	HH	22574	222053	3.81%	0.125%
108	6.301	6.288	6.348	HH	785	14679	0.25%	0.008%
109	6.372	6.348	6.410	HH	2202	31772	0.54%	0.018%
110	6.429	6.410	6.458	HH	1016	16831	0.29%	0.009%
111	6.464	6.458	6.480	HH	397	4317	0.07%	0.002%
112	6.490	6.480	6.496	HH	333	2763	0.05%	0.002%
113	6.517	6.496	6.528	HH	459	6347	0.11%	0.004%
114	6.548	6.528	6.574	HH	5209	52873	0.91%	0.030%
115	6.638	6.574	6.664	HH	958	29975	0.51%	0.017%
116	6.670	6.664	6.698	HH	698	9781	0.17%	0.006%
117	6.705	6.698	6.725	HH	367	4700	0.08%	0.003%
118	6.733	6.725	6.744	HH	432	3438	0.06%	0.002%
119	6.754	6.744	6.764	HH	406	4409	0.08%	0.002%
120	6.786	6.764	6.817	HH	2759	37008	0.63%	0.021%
121	6.824	6.817	6.841	HH	403	4273	0.07%	0.002%
122	6.869	6.841	6.900	HH	519	11704	0.20%	0.007%
123	6.923	6.900	6.954	HH	933	18209	0.31%	0.010%
124	6.959	6.954	6.965	HH	551	3427	0.06%	0.002%
125	6.974	6.965	7.009	HH	670	11124	0.19%	0.006%
126	7.012	7.009	7.020	HH	352	2047	0.04%	0.001%
127	7.082	7.020	7.129	HH	186894	1726286	29.60%	0.973%
128	7.151	7.129	7.192	HH	3265	49925	0.86%	0.028%
129	7.222	7.192	7.248	HH	1099	21985	0.38%	0.012%
130	7.255	7.248	7.277	HH	458	7180	0.12%	0.004%
131	7.283	7.277	7.296	HH	517	4898	0.08%	0.003%
132	7.314	7.296	7.349	HH	625	11984	0.21%	0.007%
133	7.371	7.349	7.388	HH	512	8140	0.14%	0.005%
134	7.400	7.388	7.407	HH	316	3125	0.05%	0.002%
135	7.419	7.407	7.442	HH	386	7070	0.12%	0.004%
136	7.454	7.442	7.465	HH	343	4397	0.08%	0.002%
137	7.472	7.465	7.479	HH	367	2612	0.04%	0.001%
138	7.501	7.479	7.526	HH	827	14469	0.25%	0.008%
139	7.541	7.526	7.564	HH	685	10996	0.19%	0.006%
140	7.610	7.564	7.640	HH	909	26756	0.46%	0.015%
141	7.650	7.640	7.682	HH	714	15047	0.26%	0.008%

Instrument :

FID_E

ClientSampleId :

WASTEMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

					rters			
142	7.718	7.682	7.743	HH	30165	297377	5.10%	0.168%
143	7.750	7.743	7.782	HH	816	13661		
144	7.805	7.782	7.824	HH	889	14626		
145	7.827	7.824	7.844	HH	433	4695		
146	7.848	7.844	7.854	HH	494	2793		
147	7.869	7.854	7.902	HH	686	15943		
148	7.906	7.902	7.915	HH	414	3279	0.06%	0.002%
149	7.937	7.915	7.957	HH	593	12474	0.21%	0.007%
150	8.012	7.957	8.042	HH	2414	50363	0.86%	0.028%
151	8.080	8.042	8.117	HH	2121	38577	0.66%	0.022%
152	8.121	8.117	8.137	HH	429	4979	0.09%	0.003%
153	8.139	8.137	8.150	HH	504	3315	0.06%	0.002%
154	8.154	8.150	8.174	HH	438	4982	0.09%	0.003%
155	8.189	8.174	8.202	HH	443	6562	0.11%	0.004%
156	8.204	8.202	8.209	HH	419	1524	0.03%	0.001%
157	8.210	8.209	8.226	HH	433	4311	0.07%	0.002%
158	8.249	8.226	8.272	HH	1636	26576	0.46%	0.015%
159	8.318	8.272	8.346	HH	4832	76708	1.32%	0.043%
160	8.357	8.346	8.369	HH	573	6911	0.12%	0.004%
161	8.415	8.369	8.429	HH	1033	24347	0.42%	0.014%
162	8.449	8.429	8.479	HH	1318	32332	0.55%	0.018%
163	8.495	8.479	8.529	HH	4448	72743	1.25%	0.041%
164	8.535	8.529	8.560	HH	1164	16515	0.28%	0.009%
165	8.578	8.560	8.599	HH	1283	19273	0.33%	0.011%
166	8.616	8.599	8.625	HH	793	10717	0.18%	0.006%
167	8.637	8.625	8.657	HH	1053	14967	0.26%	0.008%
168	8.668	8.657	8.681	HH	1154	13612	0.23%	0.008%
169	8.701	8.681	8.726	HH	3714	52811	0.91%	0.030%
170	8.766	8.726	8.814	HH	1770	53233	0.91%	0.030%
171	8.832	8.814	8.858	HH	6216	85016	1.46%	0.048%
172	8.885	8.858	8.992	HH	189156	1923405	32.98%	1.084%
173	8.995	8.992	8.998	HH	1157	4164	0.07%	0.002%
174	9.025	8.998	9.101	HH	7315	141648	2.43%	0.080%
175	9.109	9.101	9.113	HH	895	5909	0.10%	0.003%
176	9.122	9.113	9.137	HH	929	11689	0.20%	0.007%
177	9.155	9.137	9.166	HH	1307	19084	0.33%	0.011%
178	9.176	9.166	9.185	HH	1315	13862	0.24%	0.008%
179	9.191	9.185	9.220	HH	1296	21809	0.37%	0.012%
180	9.240	9.220	9.250	HH	1111	18451	0.32%	0.010%
181	9.268	9.250	9.304	HH	3168	60152	1.03%	0.034%
182	9.324	9.304	9.337	HH	1186	20544	0.35%	0.012%
183	9.352	9.337	9.382	HH	1706	33272	0.57%	0.019%
184	9.404	9.382	9.442	HH	3839	66778	1.15%	0.038%
185	9.470	9.442	9.484	HH	1134	26077	0.45%	0.015%
186	9.513	9.484	9.537	HH	2666	52845	0.91%	0.030%
187	9.555	9.537	9.603	HH	1352	43766	0.75%	0.025%
188	9.623	9.603	9.668	HH	1380	42720	0.73%	0.024%
189	9.703	9.668	9.728	HH	2971	57483	0.99%	0.032%
190	9.746	9.728	9.797	HH	2196	54050	0.93%	0.030%
191	9.811	9.797	9.848	HH	1754	36926	0.63%	0.021%
192	9.863	9.848	9.869	HH	1275	14233	0.24%	0.008%
193	9.872	9.869	9.891	HH	1195	14252	0.24%	0.008%
194	9.907	9.891	9.927	HH	1353	22273	0.38%	0.013%

Instrument :

FID_E

ClientSampleId :

WASTEMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

195	9.937	9.927	9.948	HH	1007	11414	0.20%	0.006%
196	9.968	9.948	9.998	HH	1328	33132		
197	10.017	9.998	10.037	HH	1813	31975		
198	10.065	10.037	10.078	HH	1377	30207		
199	10.091	10.078	10.106	HH	1441	21856		
200	10.119	10.106	10.137	HH	1517	23387		
201	10.145	10.137	10.167	HH	1088	18761	0.32%	0.011%
202	10.194	10.167	10.220	HH	3032	55627	0.95%	0.031%
203	10.243	10.220	10.287	HH	1786	54848	0.94%	0.031%
204	10.320	10.287	10.335	HH	1434	32311	0.55%	0.018%
205	10.366	10.335	10.408	HH	40657	456688	7.83%	0.257%
206	10.416	10.408	10.447	HH	2259	42416	0.73%	0.024%
207	10.477	10.447	10.499	HH	188981	1890998	32.42%	1.065%
208	10.514	10.499	10.567	HH	19032	257309	4.41%	0.145%
209	10.583	10.567	10.589	HH	1574	19376	0.33%	0.011%
210	10.606	10.589	10.629	HH	1839	36107	0.62%	0.020%
211	10.655	10.629	10.727	HH	1745	71499	1.23%	0.040%
212	10.746	10.727	10.777	HH	1590	39594	0.68%	0.022%
213	10.782	10.777	10.795	HH	1170	11626	0.20%	0.007%
214	10.833	10.795	10.855	HH	1853	51395	0.88%	0.029%
215	10.865	10.855	10.882	HH	1516	22226	0.38%	0.013%
216	10.901	10.882	10.940	HH	3953	80128	1.37%	0.045%
217	10.955	10.940	10.962	HH	1642	21032	0.36%	0.012%
218	10.987	10.962	10.998	HH	1765	34867	0.60%	0.020%
219	11.030	10.998	11.055	HH	2812	66138	1.13%	0.037%
220	11.061	11.055	11.076	HH	1592	19346	0.33%	0.011%
221	11.095	11.076	11.109	HH	1892	33242	0.57%	0.019%
222	11.140	11.109	11.156	HH	1985	49312	0.85%	0.028%
223	11.166	11.156	11.177	HH	1929	21991	0.38%	0.012%
224	11.188	11.177	11.197	HH	1990	23219	0.40%	0.013%
225	11.209	11.197	11.226	HH	2518	37864	0.65%	0.021%
226	11.249	11.226	11.269	HH	7222	97875	1.68%	0.055%
227	11.285	11.269	11.355	HH	3002	105686	1.81%	0.060%
228	11.370	11.355	11.380	HH	1726	24422	0.42%	0.014%
229	11.387	11.380	11.402	HH	1658	20129	0.35%	0.011%
230	11.432	11.402	11.451	HH	2645	55117	0.95%	0.031%
231	11.495	11.451	11.540	HH	6906	171246	2.94%	0.096%
232	11.545	11.540	11.553	HH	1684	12851	0.22%	0.007%
233	11.571	11.553	11.625	HH	3610	90095	1.54%	0.051%
234	11.646	11.625	11.679	HH	1854	52393	0.90%	0.030%
235	11.699	11.679	11.752	HH	3403	98587	1.69%	0.056%
236	11.772	11.752	11.815	HH	2584	77163	1.32%	0.043%
237	11.837	11.815	11.858	HH	3856	67425	1.16%	0.038%
238	11.908	11.858	11.955	HH	188840	2072647	35.54%	1.168%
239	11.977	11.955	11.997	HH	3361	66265	1.14%	0.037%
240	12.029	11.997	12.057	HH	2716	80801	1.39%	0.046%
241	12.100	12.057	12.116	HH	2944	81120	1.39%	0.046%
242	12.137	12.116	12.203	HH	5347	171398	2.94%	0.097%
243	12.218	12.203	12.238	HH	2317	43127	0.74%	0.024%
244	12.258	12.238	12.270	HH	2551	41716	0.72%	0.024%
245	12.290	12.270	12.304	HH	3567	61451	1.05%	0.035%
246	12.322	12.304	12.359	HH	5795	106747	1.83%	0.060%

Instrument :

FID_E

ClientSampleId :

WASTEMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

						Instrument :		
						FID_E		
						ClientSampleId :		
						WASTEMS		
rteres								
247	12.362	12.359	12.368	HH	1968	10540	0.18%	0.006%
248	12.389	12.368	12.397	HH	2746	41150		
249	12.408	12.397	12.419	HH	2862	34526		
250	12.438	12.419	12.456	HH	6359	93678		
251	12.470	12.456	12.492	HH	3811	60082		
252	12.513	12.492	12.524	HH	2024	35621		
253	12.545	12.524	12.555	HH	2525	43086	0.74%	0.024%
254	12.575	12.555	12.583	HH	3058	44599	0.76%	0.025%
255	12.596	12.583	12.631	HH	3536	80990	1.39%	0.046%
256	12.658	12.631	12.705	HH	11311	237645	4.07%	0.134%
257	12.725	12.705	12.744	HH	4152	77048	1.32%	0.043%
258	12.764	12.744	12.783	HH	4999	89035	1.53%	0.050%
259	12.814	12.783	12.848	HH	48818	588253	10.09%	0.331%
260	12.852	12.848	12.872	HH	3645	50811	0.87%	0.029%
261	12.877	12.872	12.899	HH	3105	46944	0.80%	0.026%
262	12.918	12.899	12.937	HH	3510	69691	1.19%	0.039%
263	12.954	12.937	12.984	HH	3241	85391	1.46%	0.048%
264	12.987	12.984	12.999	HH	2951	25125	0.43%	0.014%
265	13.003	12.999	13.010	HH	2721	18369	0.31%	0.010%
266	13.033	13.010	13.062	HH	3721	100732	1.73%	0.057%
267	13.098	13.062	13.115	HH	4004	110457	1.89%	0.062%
268	13.133	13.115	13.154	HH	5671	101078	1.73%	0.057%
269	13.208	13.154	13.240	HH	185915	2148264	36.83%	1.210%
270	13.270	13.240	13.282	HH	4464	91778	1.57%	0.052%
271	13.304	13.282	13.371	HH	14876	289933	4.97%	0.163%
272	13.409	13.371	13.430	HH	3922	112838	1.93%	0.064%
273	13.454	13.430	13.490	HH	6882	166185	2.85%	0.094%
274	13.502	13.490	13.517	HH	3334	51504	0.88%	0.029%
275	13.534	13.517	13.552	HH	4032	74334	1.27%	0.042%
276	13.577	13.552	13.592	HH	18678	240618	4.13%	0.136%
277	13.605	13.592	13.628	HH	15876	213342	3.66%	0.120%
278	13.643	13.628	13.672	HH	5784	111477	1.91%	0.063%
279	13.686	13.672	13.735	HH	3648	115426	1.98%	0.065%
280	13.755	13.735	13.760	HH	3316	45067	0.77%	0.025%
281	13.785	13.760	13.804	HH	13284	201215	3.45%	0.113%
282	13.815	13.804	13.837	HH	5491	93169	1.60%	0.052%
283	13.850	13.837	13.859	HH	4383	53946	0.92%	0.030%
284	13.864	13.859	13.866	HH	4343	19386	0.33%	0.011%
285	13.896	13.866	13.932	HH	10474	234723	4.02%	0.132%
286	13.947	13.932	13.978	HH	4163	101592	1.74%	0.057%
287	14.012	13.978	14.019	HH	4028	87573	1.50%	0.049%
288	14.040	14.019	14.079	HH	16018	270327	4.64%	0.152%
289	14.098	14.079	14.116	HH	4958	86564	1.48%	0.049%
290	14.142	14.116	14.150	HH	3353	66460	1.14%	0.037%
291	14.187	14.150	14.215	HH	5142	157136	2.69%	0.089%
292	14.224	14.215	14.234	HH	3907	42495	0.73%	0.024%
293	14.244	14.234	14.259	HH	3821	53272	0.91%	0.030%
294	14.294	14.259	14.319	HH	4633	138163	2.37%	0.078%
295	14.338	14.319	14.369	HH	4912	128694	2.21%	0.073%
296	14.398	14.369	14.449	HH	167914	2096715	35.95%	1.181%
297	14.478	14.449	14.496	HH	8303	169619	2.91%	0.096%
298	14.503	14.496	14.529	HH	5185	82340	1.41%	0.046%
299	14.548	14.529	14.563	HH	5044	89607	1.54%	0.050%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

300	14.580	14.563	14.605	HH	5645	109579	1.88%	0.062%
301	14.621	14.605	14.646	HH	3687	89429		
302	14.660	14.646	14.682	HH	3831	77432		
303	14.685	14.682	14.702	HH	3500	41137		
304	14.712	14.702	14.719	HH	3535	34574		
305	14.788	14.719	14.810	HH	7148	247064		
306	14.825	14.810	14.845	HH	6295	108861	1.87%	0.061%
307	14.855	14.845	14.864	HH	4313	46368	0.80%	0.026%
308	14.881	14.864	14.897	HH	4827	92591	1.59%	0.052%
309	14.912	14.897	14.934	HH	5819	113186	1.94%	0.064%
310	14.960	14.934	15.006	HH	6855	229308	3.93%	0.129%
311	15.021	15.006	15.033	HH	5058	75989	1.30%	0.043%
312	15.075	15.033	15.139	HH	7274	342645	5.88%	0.193%
313	15.161	15.139	15.205	HH	5676	196398	3.37%	0.111%
314	15.221	15.205	15.247	HH	5124	113101	1.94%	0.064%
315	15.292	15.247	15.326	HH	92130	1304678	22.37%	0.735%
316	15.339	15.326	15.370	HH	5409	129003	2.21%	0.073%
317	15.383	15.370	15.410	HH	4728	106219	1.82%	0.060%
318	15.432	15.410	15.437	HH	5092	74147	1.27%	0.042%
319	15.496	15.437	15.529	HH	168083	2293264	39.32%	1.292%
320	15.542	15.529	15.567	HH	6137	120026	2.06%	0.068%
321	15.630	15.567	15.692	HH	5673	373124	6.40%	0.210%
322	15.700	15.692	15.739	HH	4999	130358	2.24%	0.073%
323	15.785	15.739	15.804	HH	5977	202562	3.47%	0.114%
324	15.832	15.804	15.839	HH	5261	106561	1.83%	0.060%
325	15.873	15.839	15.943	HH	44342	871186	14.94%	0.491%
326	15.950	15.943	15.954	HH	5613	34590	0.59%	0.019%
327	15.960	15.954	15.987	HH	5704	110297	1.89%	0.062%
328	16.011	15.987	16.026	HH	8184	158908	2.72%	0.090%
329	16.037	16.026	16.053	HH	6899	102538	1.76%	0.058%
330	16.067	16.053	16.084	HH	5921	102649	1.76%	0.058%
331	16.107	16.084	16.127	HH	11080	211836	3.63%	0.119%
332	16.139	16.127	16.160	HH	7417	132039	2.26%	0.074%
333	16.178	16.160	16.213	HH	6346	182951	3.14%	0.103%
334	16.258	16.213	16.267	HH	5834	182902	3.14%	0.103%
335	16.303	16.267	16.328	HH	6929	232051	3.98%	0.131%
336	16.334	16.328	16.357	HH	5838	102606	1.76%	0.058%
337	16.388	16.357	16.435	HH	8585	311320	5.34%	0.175%
338	16.511	16.435	16.544	HH	165410	2302796	39.48%	1.297%
339	16.574	16.544	16.600	HH	8920	239822	4.11%	0.135%
340	16.608	16.600	16.627	HH	6329	102706	1.76%	0.058%
341	16.637	16.627	16.647	HH	6174	72959	1.25%	0.041%
342	16.678	16.647	16.695	HH	6332	177962	3.05%	0.100%
343	16.771	16.695	16.783	HH	6920	346179	5.94%	0.195%
344	16.822	16.783	16.852	HH	8083	303813	5.21%	0.171%
345	16.881	16.852	16.927	HH	36912	753853	12.93%	0.425%
346	16.953	16.927	16.968	HH	8796	208306	3.57%	0.117%
347	16.991	16.968	17.007	HH	12241	236934	4.06%	0.133%
348	17.022	17.007	17.041	HH	13499	229306	3.93%	0.129%
349	17.052	17.041	17.068	HH	10414	160866	2.76%	0.091%
350	17.088	17.068	17.112	HH	11362	251284	4.31%	0.142%
351	17.124	17.112	17.139	HH	8427	131407	2.25%	0.074%

Instrument :

FID_E

ClientSampleId :

WASTEMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

352	17.154	17.139	17.174	HH	9130	180304	3.09% 0.102%
353	17.189	17.174	17.194	HH	8087	97561	
354	17.197	17.194	17.224	HH	8024	140559	
355	17.263	17.224	17.271	HH	8600	236359	
356	17.275	17.271	17.288	HH	8570	89748	
357	17.313	17.288	17.324	HH	9181	187187	
358	17.346	17.324	17.381	HH	13425	386075	6.62% 0.218%
359	17.402	17.381	17.422	HH	14045	290390	4.98% 0.164%
360	17.457	17.422	17.489	HH	160416	2279884	39.09% 1.284%
361	17.509	17.489	17.523	HH	15422	270970	4.65% 0.153%
362	17.535	17.523	17.562	HH	14366	289840	4.97% 0.163%
363	17.578	17.562	17.595	HH	10022	195621	3.35% 0.110%
364	17.605	17.595	17.610	HH	10100	88084	1.51% 0.050%
365	17.614	17.610	17.617	HH	10146	44115	0.76% 0.025%
366	17.641	17.617	17.679	HH	11080	390452	6.69% 0.220%
367	17.680	17.679	17.692	HH	10559	83220	1.43% 0.047%
368	17.730	17.692	17.750	HH	11967	391341	6.71% 0.220%
369	17.779	17.750	17.785	HH	11934	248893	4.27% 0.140%
370	17.820	17.785	17.852	HH	26122	688293	11.80% 0.388%
371	17.867	17.852	17.880	HH	13973	228305	3.91% 0.129%
372	17.904	17.880	17.948	HH	32285	763267	13.09% 0.430%
373	17.994	17.948	18.027	HH	14246	617327	10.58% 0.348%
374	18.054	18.027	18.085	HH	14081	476663	8.17% 0.269%
375	18.145	18.085	18.167	HH	14681	687440	11.79% 0.387%
376	18.187	18.167	18.210	HH	15061	378139	6.48% 0.213%
377	18.233	18.210	18.248	HH	16392	357949	6.14% 0.202%
378	18.342	18.248	18.385	HH	169373	3317854	56.89% 1.869%
379	18.390	18.385	18.404	HH	16838	183910	3.15% 0.104%
380	18.431	18.404	18.455	HH	25488	643494	11.03% 0.363%
381	18.472	18.455	18.490	HH	19573	393198	6.74% 0.222%
382	18.518	18.490	18.545	HH	21836	665228	11.41% 0.375%
383	18.549	18.545	18.567	HH	20079	255177	4.38% 0.144%
384	18.598	18.567	18.655	HH	22874	1085913	18.62% 0.612%
385	18.696	18.655	18.714	HH	41409	1047207	17.96% 0.590%
386	18.735	18.714	18.749	HH	41118	766836	13.15% 0.432%
387	18.764	18.749	18.832	HH	40467	1408145	24.14% 0.793%
388	18.861	18.832	18.878	HH	24157	642678	11.02% 0.362%
389	18.895	18.878	18.913	HH	23741	493902	8.47% 0.278%
390	18.929	18.913	18.950	HH	23520	502731	8.62% 0.283%
391	18.956	18.950	18.959	HH	22755	124990	2.14% 0.070%
392	18.973	18.959	18.991	HH	23174	434329	7.45% 0.245%
393	19.023	18.991	19.050	HH	27591	876700	15.03% 0.494%
394	19.068	19.050	19.087	HH	25270	548467	9.40% 0.309%
395	19.120	19.087	19.129	HH	25755	628136	10.77% 0.354%
396	19.171	19.129	19.205	HH	183110	3245697	55.65% 1.829%
397	19.228	19.205	19.243	HH	28347	621612	10.66% 0.350%
398	19.271	19.243	19.305	HH	37723	1212816	20.80% 0.683%
399	19.313	19.305	19.341	HH	31236	659681	11.31% 0.372%
400	19.365	19.341	19.392	HH	30107	894535	15.34% 0.504%
401	19.489	19.392	19.501	HH	33890	2040788	34.99% 1.150%
402	19.524	19.501	19.536	HH	41219	795411	13.64% 0.448%
403	19.559	19.536	19.594	HH	48595	1500440	25.73% 0.845%
404	19.608	19.594	19.640	HH	39075	1015172	17.41% 0.572%

Instrument :

FID_E

ClientSampleId :

WASTEMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

rteres

FE012325.M Mon Feb 03 02:50:31 2025

Instrument :
FID_E
ClientSampleId :
WASTEMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Report of Analysis

Client:	Sciacca General Contractors, LLC	Date Collected:	01/30/25
Project:	1063 Lafayette Ave, Hawthorne, NJ	Date Received:	01/30/25
Client Sample ID:	WASTEMSD	SDG No.:	Q1236
Lab Sample ID:	Q1236-01MSD	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	81.6
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	1
GPC Factor :		Test:	TPH GC
Prep Method :	SW3541	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FE052198.D	1	01/31/25 12:05	02/01/25 4:15	PB166433

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	73100	E	389	3470	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	11.1		37 - 130	55%	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_E\Data\FE013125\
 Data File : FE052198.D
 Signal(s) : FID1B.ch
 Acq On : 01 Feb 2025 04:15
 Operator : YP\AJ
 Sample : Q1236-01MSD
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 WASTEMSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
 Quant Time: Feb 03 01:38:12 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
 Quant Title :
 QLast Update : Fri Jan 24 03:06:38 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.291	1101297	11.057 ug/ml
Target Compounds			
1) N-OCTANE	2.464	1299508	15.238 ug/ml
2) N-DECANE	4.957	1597631	17.460 ug/ml
3) N-DODECANE	7.081	1704521	17.060 ug/ml
4) N-TETRADECANE	8.885	1834596	18.031 ug/ml
5) N-HEXADECANE	10.477	1849210	17.354 ug/ml
6) N-OCTADECANE	11.908	1973886	17.605 ug/mlm
7) N-EICOSANE	13.208	2018339	18.121 ug/ml
8) N-DOCOSANE	14.398	1936046	17.437 ug/ml
10) N-TETRACOSANE	15.495	2072036	18.733 ug/ml
11) N-HEXACOSANE	16.511	1914444	17.562 ug/ml
12) N-OCTACOSANE	17.456	1870699	17.331 ug/mlm
13) N-TRIACONTANE	18.340	2024911	18.872 ug/ml
14) N-DOTRIACONTANE	19.169	2123083	20.333 ug/ml
15) N-TETRATRIACONTANE	19.951	2074972	22.097 ug/ml
16) N-HEXATRIACONTANE	20.689	2461806	30.486 ug/mlm
17) N-OCTATRIACONTANE	21.483	2347988	31.470 ug/ml
18) N-TETRACONTANE	22.500	2392926	32.493 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE013125\
Data File : FE052198.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 04:15
Operator : YP\AJ
Sample : Q1236-01MSD
Misc :
ALS Vial : 32 Sample Multiplier: 1

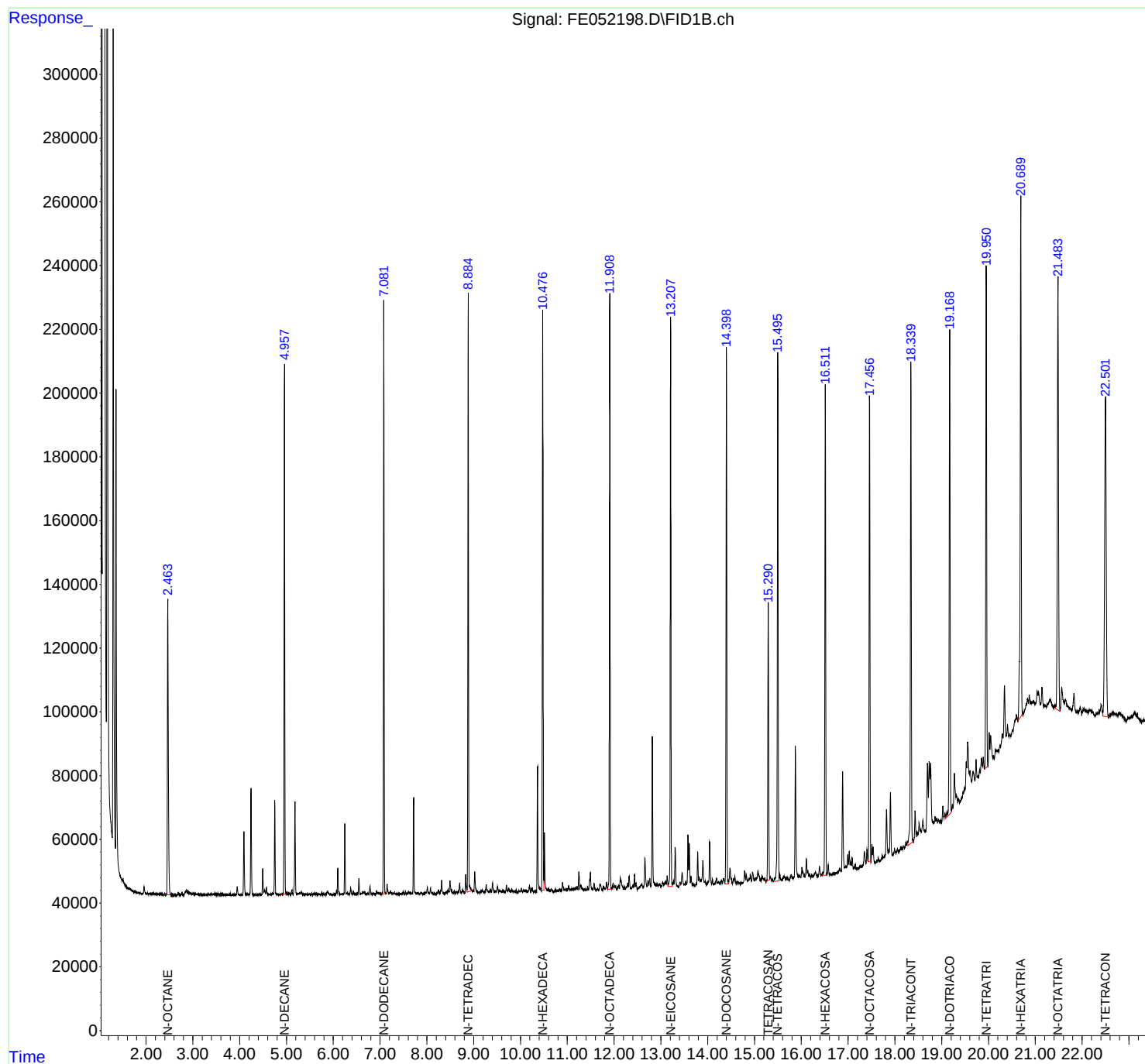
Instrument :
FID_E
ClientSampleId :
WASTEMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Feb 03 01:38:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Quant Title :
QLast Update : Fri Jan 24 03:06:38 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :

FID_E

ClientSampleId :

WASTEMSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

rteres

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE01312
Data File : FE052198.D
Signal(s) : FID1B.ch
Acq On : 01 Feb 2025 04:15
Sample : Q1236-01MSD
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\FE012325.M
Title :

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.464	2.451	2.534	PH	92623	1261552	20.93%	0.707%
2	2.539	2.534	2.593	VV	173	126	0.00%	0.000%
3	2.605	2.593	2.643	PV	1	-2223	-0.04%	-0.001%
4	2.653	2.643	2.666	PV	61	-651	-0.01%	-0.000%
5	2.686	2.666	2.745	PV	620	7401	0.12%	0.004%
6	2.765	2.745	2.803	PV	767	9129	0.15%	0.005%
7	2.858	2.803	2.956	PV	1312	69873	1.16%	0.039%
8	2.961	2.956	2.972	VV	576	4064	0.07%	0.002%
9	2.982	2.972	3.010	VV	510	7920	0.13%	0.004%
10	3.026	3.010	3.038	VV	355	4652	0.08%	0.003%
11	3.041	3.038	3.059	VV	338	2895	0.05%	0.002%
12	3.066	3.059	3.071	VV	286	1466	0.02%	0.001%
13	3.075	3.071	3.094	VV	236	2071	0.03%	0.001%
14	3.096	3.094	3.112	VV	208	1418	0.02%	0.001%
15	3.126	3.112	3.136	VV	163	1290	0.02%	0.001%
16	3.164	3.136	3.203	PV	359	5881	0.10%	0.003%
17	3.227	3.203	3.242	PV	248	2651	0.04%	0.001%
18	3.248	3.242	3.260	VV	179	1010	0.02%	0.001%
19	3.263	3.260	3.270	VV	42	456	0.01%	0.000%
20	3.274	3.270	3.300	VV	150	1195	0.02%	0.001%
21	3.312	3.300	3.316	PV	108	762	0.01%	0.000%
22	3.324	3.316	3.330	VV	150	994	0.02%	0.001%
23	3.355	3.330	3.369	VV	308	4450	0.07%	0.002%
24	3.386	3.369	3.414	VV	296	5352	0.09%	0.003%
25	3.421	3.414	3.432	VV	254	2138	0.04%	0.001%
26	3.440	3.432	3.447	VV	234	1855	0.03%	0.001%
27	3.465	3.447	3.512	VV	420	9272	0.15%	0.005%
28	3.522	3.512	3.537	VV	177	1972	0.03%	0.001%
29	3.543	3.537	3.582	VV	153	1416	0.02%	0.001%
30	3.599	3.582	3.632	PV	412	5303	0.09%	0.003%
31	3.635	3.632	3.651	VV	160	790	0.01%	0.000%
32	3.654	3.651	3.662	PV	87	186	0.00%	0.000%
33	3.665	3.662	3.669	VV	54	39	0.00%	0.000%
34	3.679	3.669	3.688	PV	27	-230	-0.00%	-0.000%
35	3.693	3.688	3.708	PV	-10	-242	-0.00%	-0.000%
36	3.736	3.708	3.770	PV	198	1417	0.02%	0.001%

					retention				
37	3.775	3.770	3.783	PV	68	-308	-0.01%	-0.000%	
38	3.798	3.783	3.812	PV	205	-595	-0.01%	-0.000%	
39	3.847	3.812	3.852	PV	95	-485	-0.01%	-0.000%	
40	3.855	3.852	3.859	PV	26	123	0.00%	0.000%	
41	3.863	3.859	3.924	PV	61	877	0.00%	0.000%	
42	3.948	3.924	4.001	PV	2617	30620	0.00%	0.000%	
43	4.018	4.001	4.037	PV	44	153	0.00%	0.000%	
44	4.091	4.037	4.135	PV	19907	233744	3.88%	0.131%	
45	4.143	4.135	4.151	VV	282	2200	0.04%	0.001%	
46	4.170	4.151	4.213	VV	327	7564	0.13%	0.004%	
47	4.243	4.213	4.307	VV	33547	386921	6.42%	0.217%	
48	4.318	4.307	4.347	VV	231	1061	0.02%	0.001%	
49	4.369	4.347	4.393	PV	134	973	0.02%	0.001%	
50	4.399	4.393	4.403	PV	44	201	0.00%	0.000%	
51	4.420	4.403	4.459	PV	302	3243	0.05%	0.002%	
52	4.462	4.459	4.466	PV	23	56	0.00%	0.000%	
53	4.493	4.466	4.520	PV	8305	89604	1.49%	0.050%	
54	4.534	4.520	4.554	VV	1492	20133	0.33%	0.011%	
55	4.572	4.554	4.599	VV	2332	28293	0.47%	0.016%	
56	4.617	4.599	4.647	VV	323	4780	0.08%	0.003%	
57	4.662	4.647	4.671	VV	309	2457	0.04%	0.001%	
58	4.674	4.671	4.686	VV	242	1934	0.03%	0.001%	
59	4.701	4.686	4.722	VV	681	8674	0.14%	0.005%	
60	4.751	4.722	4.798	VV	29747	295020	4.89%	0.165%	
61	4.805	4.798	4.830	VV	192	2402	0.04%	0.001%	
62	4.840	4.830	4.855	VH	137	932	0.02%	0.001%	
63	4.859	4.855	4.865	PH	103	465	0.01%	0.000%	
64	4.902	4.865	4.909	HH	366	3920	0.07%	0.002%	
65	4.911	4.909	4.924	HH	326	2078	0.03%	0.001%	
66	4.957	4.924	4.992	HH	166379	1607687	26.67%	0.901%	
67	5.003	4.992	5.034	HH	662	10255	0.17%	0.006%	
68	5.040	5.034	5.060	HH	325	3661	0.06%	0.002%	
69	5.069	5.060	5.075	HH	321	2395	0.04%	0.001%	
70	5.077	5.075	5.087	HH	379	1559	0.03%	0.001%	
71	5.117	5.087	5.143	HH	1604	18910	0.31%	0.011%	
72	5.183	5.143	5.223	HH	29366	315693	5.24%	0.177%	
73	5.237	5.223	5.252	HH	512	6592	0.11%	0.004%	
74	5.273	5.252	5.289	HH	533	9030	0.15%	0.005%	
75	5.297	5.289	5.306	HH	573	5215	0.09%	0.003%	
76	5.321	5.306	5.360	HH	671	13849	0.23%	0.008%	
77	5.363	5.360	5.367	HH	213	793	0.01%	0.000%	
78	5.371	5.367	5.392	HH	253	2332	0.04%	0.001%	
79	5.394	5.392	5.397	HH	122	297	0.00%	0.000%	
80	5.408	5.397	5.439	HH	192	3275	0.05%	0.002%	
81	5.442	5.439	5.446	HH	190	486	0.01%	0.000%	
82	5.457	5.446	5.464	HH	197	1441	0.02%	0.001%	
83	5.472	5.464	5.498	HH	190	2951	0.05%	0.002%	
84	5.508	5.498	5.519	HH	169	1454	0.02%	0.001%	
85	5.543	5.519	5.560	HH	353	4028	0.07%	0.002%	
86	5.576	5.560	5.586	HH	421	4090	0.07%	0.002%	
87	5.602	5.586	5.680	HH	573	14277	0.24%	0.008%	
88	5.692	5.680	5.707	HH	279	2662	0.04%	0.001%	
89	5.711	5.707	5.726	HH	237	1350	0.02%	0.001%	

Instrument :

FID_E

ClientSampleId :

WASTEMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

							Instrument : FID_E	
							ClientSampleId : WASTEMSD	
90	5.760	5.726	5.776	HH	457	6896	0.11%	0.004%
91	5.798	5.776	5.817	HH	298	4111		
92	5.830	5.817	5.847	HH	395	4541		
93	5.880	5.847	5.916	HH	1282	24051		
94	5.920	5.916	5.959	HH	306	4081		
95	5.964	5.959	5.974	HH	133	841		
96	5.976	5.974	6.009	HH	147	1870	0.03%	0.001%
97	6.028	6.009	6.048	HH	317	3656	0.06%	0.002%
98	6.069	6.048	6.081	HH	1410	14165	0.24%	0.008%
99	6.097	6.081	6.169	HH	8425	90504	1.50%	0.051%
100	6.171	6.169	6.175	HH	146	448	0.01%	0.000%
101	6.193	6.175	6.211	HH	369	5016	0.08%	0.003%
102	6.248	6.211	6.272	HH	22390	219698	3.65%	0.123%
103	6.277	6.272	6.292	HH	527	4992	0.08%	0.003%
104	6.301	6.292	6.317	HH	715	7599	0.13%	0.004%
105	6.324	6.317	6.353	HH	365	6668	0.11%	0.004%
106	6.373	6.353	6.412	HH	2284	31123	0.52%	0.017%
107	6.428	6.412	6.462	HH	1017	17030	0.28%	0.010%
108	6.463	6.462	6.483	HH	474	3996	0.07%	0.002%
109	6.490	6.483	6.509	HH	346	4416	0.07%	0.002%
110	6.514	6.509	6.530	HH	418	4440	0.07%	0.002%
111	6.549	6.530	6.578	HH	5169	54287	0.90%	0.030%
112	6.638	6.578	6.653	HH	968	25750	0.43%	0.014%
113	6.658	6.653	6.665	HH	746	5018	0.08%	0.003%
114	6.668	6.665	6.698	HH	717	9687	0.16%	0.005%
115	6.712	6.698	6.723	HH	397	4576	0.08%	0.003%
116	6.733	6.723	6.744	HH	433	3928	0.07%	0.002%
117	6.756	6.744	6.767	HH	492	5093	0.08%	0.003%
118	6.786	6.767	6.811	HH	2744	35445	0.59%	0.020%
119	6.824	6.811	6.840	HH	394	5223	0.09%	0.003%
120	6.847	6.840	6.853	HH	464	2729	0.05%	0.002%
121	6.869	6.853	6.902	HH	569	10035	0.17%	0.006%
122	6.924	6.902	6.942	HH	1089	14374	0.24%	0.008%
123	6.951	6.942	6.965	HH	624	7439	0.12%	0.004%
124	6.974	6.965	6.990	HH	648	7362	0.12%	0.004%
125	6.995	6.990	7.023	HH	400	6602	0.11%	0.004%
126	7.044	7.023	7.054	HH	451	6943	0.12%	0.004%
127	7.081	7.054	7.127	HH	186224	1721084	28.56%	0.965%
128	7.152	7.127	7.192	HH	3402	50092	0.83%	0.028%
129	7.225	7.192	7.254	HH	1037	24180	0.40%	0.014%
130	7.262	7.254	7.280	HH	495	6712	0.11%	0.004%
131	7.287	7.280	7.302	HH	505	6037	0.10%	0.003%
132	7.314	7.302	7.333	HH	644	8340	0.14%	0.005%
133	7.340	7.333	7.350	HH	304	2749	0.05%	0.002%
134	7.366	7.350	7.390	HH	491	8288	0.14%	0.005%
135	7.425	7.390	7.444	HH	448	10471	0.17%	0.006%
136	7.450	7.444	7.470	HH	440	5644	0.09%	0.003%
137	7.499	7.470	7.523	HH	852	17340	0.29%	0.010%
138	7.542	7.523	7.583	HH	891	17868	0.30%	0.010%
139	7.609	7.583	7.644	HH	902	24351	0.40%	0.014%
140	7.651	7.644	7.656	HH	714	4616	0.08%	0.003%
141	7.660	7.656	7.681	HH	692	8819	0.15%	0.005%

Instrument :

FID_E

ClientSampleId :

WASTEMSD

0.11% 0.004%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

						Instrument :	
						FID_E	
						ClientSampleId :	
						WASTEMSD	
				rt	Area	Area%	Height
142	7.688	7.681	7.695	HH	523	4154	0.07%
143	7.718	7.695	7.743	HH	30530	294938	0.002%
144	7.748	7.743	7.778	HH	846	12514	
145	7.804	7.778	7.820	HH	838	14653	
146	7.826	7.820	7.844	HH	461	5754	
147	7.871	7.844	7.884	HH	746	13230	
148	7.885	7.884	7.903	HH	706	5967	0.10%
149	7.908	7.903	7.917	HH	463	3374	0.003%
150	7.921	7.917	7.924	HH	471	1778	0.06%
151	7.934	7.924	7.955	HH	642	9288	0.002%
152	8.012	7.955	8.044	HH	2489	51607	0.15%
153	8.079	8.044	8.105	HH	2109	35660	0.86%
154	8.110	8.105	8.142	HH	567	10002	0.59%
155	8.146	8.142	8.157	HH	486	3760	0.17%
156	8.159	8.157	8.175	HH	465	3594	0.006%
157	8.190	8.175	8.197	HH	449	4810	0.002%
158	8.200	8.197	8.216	HH	386	4044	0.08%
159	8.248	8.216	8.280	HH	1615	31196	0.07%
160	8.318	8.280	8.371	HH	4652	78943	0.52%
161	8.414	8.371	8.429	HH	997	23284	0.017%
162	8.452	8.429	8.475	HH	1399	29875	0.39%
163	8.495	8.475	8.527	HH	4474	73659	0.50%
164	8.535	8.527	8.554	HH	1243	14509	1.22%
165	8.557	8.554	8.564	HH	588	3466	0.24%
166	8.581	8.564	8.600	HH	1227	17852	0.008%
167	8.637	8.600	8.655	HH	1033	24330	0.06%
168	8.667	8.655	8.682	HH	1077	14552	0.30%
169	8.701	8.682	8.726	HH	3616	51725	0.40%
170	8.765	8.726	8.804	HH	1646	47353	0.24%
171	8.831	8.804	8.860	HH	6419	91748	0.86%
172	8.885	8.860	9.003	HH	189268	1930455	0.79%
173	9.024	9.003	9.090	HH	7363	132158	32.03%
174	9.119	9.090	9.124	HH	979	16431	2.19%
175	9.128	9.124	9.138	HH	891	6874	0.27%
176	9.157	9.138	9.165	HH	1328	17765	0.11%
177	9.176	9.165	9.187	HH	1300	15724	0.09%
178	9.193	9.187	9.220	HH	1279	20419	0.26%
179	9.268	9.220	9.283	HH	3144	59763	0.34%
180	9.288	9.283	9.307	HH	1605	18949	0.99%
181	9.324	9.307	9.335	HH	1135	17864	0.31%
182	9.352	9.335	9.383	HH	1640	34595	0.10%
183	9.403	9.383	9.440	HH	3765	65514	0.57%
184	9.471	9.440	9.484	HH	1225	27229	1.09%
185	9.513	9.484	9.534	HH	2644	51272	0.45%
186	9.551	9.534	9.569	HH	1347	24364	0.85%
187	9.575	9.569	9.605	HH	1169	22273	0.40%
188	9.626	9.605	9.631	HH	1338	17732	0.37%
189	9.639	9.631	9.668	HH	1286	24171	0.29%
190	9.702	9.668	9.727	HH	3030	58421	0.40%
191	9.745	9.727	9.793	HH	2142	53088	0.97%
192	9.810	9.793	9.844	HH	1703	37080	0.03%
193	9.861	9.844	9.889	HH	1283	30066	0.62%
194	9.907	9.889	9.922	HH	1302	21655	0.50%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

195	9.933	9.922	9.948	HH	1028	15042	0.25%	0.008%
196	9.964	9.948	9.994	HH	1327	30488		
197	10.017	9.994	10.043	HH	1987	40139		
198	10.060	10.043	10.070	HH	1513	21134		
199	10.087	10.070	10.106	HH	1546	29649		
200	10.119	10.106	10.141	HH	1474	25603		
201	10.148	10.141	10.155	HH	1135	9600	0.16%	0.005%
202	10.164	10.155	10.170	HH	1170	9703	0.16%	0.005%
203	10.193	10.170	10.218	HH	3107	53633	0.89%	0.030%
204	10.240	10.218	10.289	HH	1822	59270	0.98%	0.033%
205	10.321	10.289	10.340	HH	1367	34965	0.58%	0.020%
206	10.365	10.340	10.404	HH	40193	447982	7.43%	0.251%
207	10.415	10.404	10.449	HH	2347	49751	0.83%	0.028%
208	10.477	10.449	10.499	HH	183473	1894138	31.43%	1.062%
209	10.514	10.499	10.574	HH	19478	260818	4.33%	0.146%
210	10.607	10.574	10.631	HH	1832	53133	0.88%	0.030%
211	10.654	10.631	10.703	HH	1732	58710	0.97%	0.033%
212	10.708	10.703	10.727	HH	1076	14891	0.25%	0.008%
213	10.745	10.727	10.776	HH	1673	39122	0.65%	0.022%
214	10.794	10.776	10.798	HH	1252	15479	0.26%	0.009%
215	10.835	10.798	10.853	HH	1896	48756	0.81%	0.027%
216	10.867	10.853	10.879	HH	1565	22012	0.37%	0.012%
217	10.901	10.879	10.937	HH	3956	81016	1.34%	0.045%
218	10.959	10.937	10.969	HH	1631	30405	0.50%	0.017%
219	10.972	10.969	10.977	HH	1675	8161	0.14%	0.005%
220	10.987	10.977	10.999	HH	1758	21930	0.36%	0.012%
221	11.030	10.999	11.053	HH	2834	65838	1.09%	0.037%
222	11.064	11.053	11.077	HH	1725	22926	0.38%	0.013%
223	11.092	11.077	11.115	HH	1840	38312	0.64%	0.021%
224	11.125	11.115	11.129	HH	1818	15250	0.25%	0.009%
225	11.144	11.129	11.155	HH	2051	29856	0.50%	0.017%
226	11.168	11.155	11.177	HH	2074	23826	0.40%	0.013%
227	11.208	11.177	11.230	HH	2596	67100	1.11%	0.038%
228	11.249	11.230	11.268	HH	7288	94621	1.57%	0.053%
229	11.285	11.268	11.314	HH	2987	68904	1.14%	0.039%
230	11.319	11.314	11.354	HH	1946	41186	0.68%	0.023%
231	11.371	11.354	11.405	HH	1759	50666	0.84%	0.028%
232	11.431	11.405	11.452	HH	2809	55795	0.93%	0.031%
233	11.495	11.452	11.547	HH	6971	186272	3.09%	0.104%
234	11.571	11.547	11.623	HH	3636	95602	1.59%	0.054%
235	11.642	11.623	11.674	HH	1935	52616	0.87%	0.029%
236	11.699	11.674	11.753	HH	3512	106331	1.76%	0.060%
237	11.775	11.753	11.815	HH	2706	77674	1.29%	0.044%
238	11.837	11.815	11.859	HH	3808	70872	1.18%	0.040%
239	11.908	11.859	11.952	HH	187715	2075742	34.44%	1.164%
240	11.977	11.952	11.996	HH	3452	70306	1.17%	0.039%
241	12.027	11.996	12.057	HH	2856	84927	1.41%	0.048%
242	12.100	12.057	12.117	HH	3034	85725	1.42%	0.048%
243	12.136	12.117	12.149	HH	5288	77379	1.28%	0.043%
244	12.153	12.149	12.199	HH	4370	91916	1.53%	0.052%
245	12.218	12.199	12.237	HH	2345	47195	0.78%	0.026%
246	12.260	12.237	12.272	HH	2513	47246	0.78%	0.026%

Instrument :

FID_E

ClientSampleId :

WASTEMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

					rters			
247	12.291	12.272	12.305	HH	3670	60956	1.01%	0.034%
248	12.322	12.305	12.353	HH	5829	102679		
249	12.364	12.353	12.370	HH	2052	20431		
250	12.390	12.370	12.400	HH	2861	44221		
251	12.409	12.400	12.419	HH	2969	31437		
252	12.438	12.419	12.456	HH	6434	95479		
253	12.470	12.456	12.491	HH	3785	60367	1.00%	0.034%
254	12.510	12.491	12.525	HH	2174	40687	0.68%	0.023%
255	12.545	12.525	12.554	HH	2592	41098	0.68%	0.023%
256	12.574	12.554	12.583	HH	3184	48890	0.81%	0.027%
257	12.596	12.583	12.629	HH	3537	80027	1.33%	0.045%
258	12.657	12.629	12.704	HH	11373	246504	4.09%	0.138%
259	12.725	12.704	12.744	HH	4459	85713	1.42%	0.048%
260	12.764	12.744	12.787	HH	5181	99726	1.65%	0.056%
261	12.815	12.787	12.872	HH	49754	665707	11.05%	0.373%
262	12.877	12.872	12.896	HH	3346	43663	0.72%	0.024%
263	12.918	12.896	12.937	HH	3730	79330	1.32%	0.044%
264	12.959	12.937	13.010	HH	3301	132425	2.20%	0.074%
265	13.035	13.010	13.064	HH	3903	109040	1.81%	0.061%
266	13.098	13.064	13.115	HH	4269	113890	1.89%	0.064%
267	13.132	13.115	13.155	HH	6043	105488	1.75%	0.059%
268	13.208	13.155	13.240	HH	180653	2153750	35.73%	1.207%
269	13.270	13.240	13.282	HH	4595	94072	1.56%	0.053%
270	13.305	13.282	13.333	HH	14838	234437	3.89%	0.131%
271	13.340	13.333	13.376	HH	3091	71722	1.19%	0.040%
272	13.407	13.376	13.427	HH	4053	102544	1.70%	0.057%
273	13.452	13.427	13.487	HH	7005	174280	2.89%	0.098%
274	13.500	13.487	13.516	HH	3461	56191	0.93%	0.031%
275	13.534	13.516	13.553	HH	4300	82106	1.36%	0.046%
276	13.577	13.553	13.591	HH	18837	245849	4.08%	0.138%
277	13.605	13.591	13.628	HH	16144	217640	3.61%	0.122%
278	13.643	13.628	13.670	HH	5786	113132	1.88%	0.063%
279	13.686	13.670	13.737	HH	3730	127394	2.11%	0.071%
280	13.784	13.737	13.805	HH	13413	252674	4.19%	0.142%
281	13.816	13.805	13.839	HH	5552	96941	1.61%	0.054%
282	13.895	13.839	13.935	HH	10717	330483	5.48%	0.185%
283	13.947	13.935	13.980	HH	4344	102378	1.70%	0.057%
284	14.013	13.980	14.020	HH	4322	90353	1.50%	0.051%
285	14.040	14.020	14.082	HH	16668	285567	4.74%	0.160%
286	14.097	14.082	14.122	HH	5055	96929	1.61%	0.054%
287	14.141	14.122	14.154	HH	3516	64198	1.07%	0.036%
288	14.186	14.154	14.211	HH	5331	147645	2.45%	0.083%
289	14.222	14.211	14.232	HH	4035	49784	0.83%	0.028%
290	14.243	14.232	14.259	HH	3972	61950	1.03%	0.035%
291	14.295	14.259	14.316	HH	4664	136859	2.27%	0.077%
292	14.338	14.316	14.365	HH	5071	132505	2.20%	0.074%
293	14.398	14.365	14.449	HH	171040	2110326	35.01%	1.183%
294	14.477	14.449	14.497	HH	8395	174904	2.90%	0.098%
295	14.504	14.497	14.524	HH	5257	73251	1.22%	0.041%
296	14.547	14.524	14.564	HH	5291	105060	1.74%	0.059%
297	14.579	14.564	14.605	HH	5876	115838	1.92%	0.065%
298	14.630	14.605	14.645	HH	3949	89666	1.49%	0.050%
299	14.660	14.645	14.702	HH	4083	127506	2.12%	0.071%

Instrument :

FID_E

ClientSampleId :

WASTEMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

300	14.710	14.702	14.725	HH	3672	50149	0.83%	0.028%
301	14.787	14.725	14.812	HH	7506	251279		
302	14.824	14.812	14.845	HH	6403	105869		
303	14.854	14.845	14.862	HH	4544	47419		
304	14.881	14.862	14.892	HH	5098	85747		
305	14.913	14.892	14.935	HH	6259	137158		
306	14.958	14.935	14.987	HH	7086	182445	3.03%	0.102%
307	14.993	14.987	15.005	HH	4892	51434	0.85%	0.029%
308	15.020	15.005	15.035	HH	5445	89509	1.49%	0.050%
309	15.073	15.035	15.139	HH	7552	352570	5.85%	0.198%
310	15.160	15.139	15.204	HH	5924	200840	3.33%	0.113%
311	15.219	15.204	15.247	HH	5234	123734	2.05%	0.069%
312	15.291	15.247	15.325	HH	91187	1312799	21.78%	0.736%
313	15.342	15.325	15.370	HH	5702	137099	2.27%	0.077%
314	15.382	15.370	15.409	HH	4933	107523	1.78%	0.060%
315	15.427	15.409	15.438	HH	5136	83882	1.39%	0.047%
316	15.495	15.438	15.529	HH	170257	2300537	38.17%	1.290%
317	15.543	15.529	15.571	HH	6443	137277	2.28%	0.077%
318	15.576	15.571	15.579	HH	4794	22489	0.37%	0.013%
319	15.629	15.579	15.669	HH	5876	284862	4.73%	0.160%
320	15.674	15.669	15.692	HH	5230	71430	1.19%	0.040%
321	15.700	15.692	15.735	HH	5299	130176	2.16%	0.073%
322	15.784	15.735	15.805	HH	6267	225473	3.74%	0.126%
323	15.819	15.805	15.840	HH	5473	111866	1.86%	0.063%
324	15.872	15.840	15.945	HH	46632	891834	14.80%	0.500%
325	15.968	15.945	15.990	HH	5992	154866	2.57%	0.087%
326	16.012	15.990	16.028	HH	8573	161872	2.69%	0.091%
327	16.036	16.028	16.055	HH	7210	107511	1.78%	0.060%
328	16.067	16.055	16.081	HH	6213	91442	1.52%	0.051%
329	16.107	16.081	16.127	HH	11294	229340	3.81%	0.129%
330	16.138	16.127	16.162	HH	7679	143835	2.39%	0.081%
331	16.177	16.162	16.207	HH	6604	163609	2.71%	0.092%
332	16.257	16.207	16.265	HH	6143	206653	3.43%	0.116%
333	16.305	16.265	16.358	HH	7217	359614	5.97%	0.202%
334	16.387	16.358	16.427	HH	8906	293026	4.86%	0.164%
335	16.511	16.427	16.546	HH	160086	2359297	39.14%	1.323%
336	16.574	16.546	16.599	HH	9414	235225	3.90%	0.132%
337	16.603	16.599	16.605	HH	6518	24562	0.41%	0.014%
338	16.612	16.605	16.634	HH	6591	110927	1.84%	0.062%
339	16.643	16.634	16.658	HH	6422	93253	1.55%	0.052%
340	16.669	16.658	16.694	HH	6695	139980	2.32%	0.078%
341	16.711	16.694	16.716	HH	6751	91209	1.51%	0.051%
342	16.746	16.716	16.758	HH	7032	173194	2.87%	0.097%
343	16.770	16.758	16.785	HH	7191	111077	1.84%	0.062%
344	16.823	16.785	16.848	HH	8317	287815	4.78%	0.161%
345	16.881	16.848	16.924	HH	38576	772895	12.82%	0.433%
346	16.954	16.924	16.967	HH	8924	227058	3.77%	0.127%
347	16.991	16.967	17.006	HH	12641	244646	4.06%	0.137%
348	17.023	17.006	17.040	HH	13816	237741	3.94%	0.133%
349	17.050	17.040	17.067	HH	10519	162737	2.70%	0.091%
350	17.086	17.067	17.112	HH	11719	264618	4.39%	0.148%
351	17.124	17.112	17.138	HH	8669	134243	2.23%	0.075%

Instrument :

FID_E

ClientSampleId :

WASTEMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

352	17.153	17.138	17.174	HH	9452	190510	3.16%	0.107%
353	17.185	17.174	17.195	HH	8308	102174		
354	17.199	17.195	17.205	HH	8279	49262		
355	17.215	17.205	17.222	HH	8360	82109		
356	17.259	17.222	17.285	HH	8903	329136		
357	17.346	17.285	17.380	HH	13634	599711		
358	17.402	17.380	17.423	HH	14299	312559	5.19%	0.175%
359	17.457	17.423	17.488	HH	156605	2276413	37.77%	1.276%
360	17.508	17.488	17.524	HH	15916	287968	4.78%	0.161%
361	17.535	17.524	17.566	HH	14999	315603	5.24%	0.177%
362	17.576	17.566	17.592	HH	10265	155300	2.58%	0.087%
363	17.606	17.592	17.622	HH	10445	185584	3.08%	0.104%
364	17.640	17.622	17.685	HH	11311	410257	6.81%	0.230%
365	17.730	17.685	17.744	HH	12199	402569	6.68%	0.226%
366	17.749	17.744	17.754	HH	11868	75988	1.26%	0.043%
367	17.760	17.754	17.769	HH	11881	100329	1.66%	0.056%
368	17.819	17.769	17.851	HH	26775	813149	13.49%	0.456%
369	17.867	17.851	17.879	HH	14278	230290	3.82%	0.129%
370	17.904	17.879	17.945	HH	32115	761302	12.63%	0.427%
371	17.992	17.945	18.023	HH	14556	623466	10.34%	0.349%
372	18.054	18.023	18.081	HH	14304	475978	7.90%	0.267%
373	18.147	18.081	18.167	HH	14955	738399	12.25%	0.414%
374	18.189	18.167	18.206	HH	15393	351157	5.83%	0.197%
375	18.232	18.206	18.249	HH	16521	405956	6.74%	0.228%
376	18.266	18.249	18.279	HH	16812	286280	4.75%	0.160%
377	18.340	18.279	18.390	HH	166677	3100944	51.45%	1.738%
378	18.431	18.390	18.455	HH	26365	785927	13.04%	0.441%
379	18.471	18.455	18.487	HH	19902	370820	6.15%	0.208%
380	18.517	18.487	18.539	HH	22566	636557	10.56%	0.357%
381	18.548	18.539	18.563	HH	20498	295052	4.90%	0.165%
382	18.597	18.563	18.657	HH	23456	1176146	19.51%	0.659%
383	18.695	18.657	18.713	HH	41322	1031247	17.11%	0.578%
384	18.732	18.713	18.748	HH	41876	782616	12.98%	0.439%
385	18.762	18.748	18.832	HH	41277	1432928	23.77%	0.803%
386	18.856	18.832	18.880	HH	24430	669289	11.10%	0.375%
387	18.894	18.880	18.913	HH	24037	469252	7.79%	0.263%
388	18.930	18.913	18.953	HH	23779	565041	9.37%	0.317%
389	18.972	18.953	18.991	HH	23260	514550	8.54%	0.288%
390	19.023	18.991	19.047	HH	27823	839740	13.93%	0.471%
391	19.067	19.047	19.086	HH	25284	579005	9.61%	0.325%
392	19.119	19.086	19.130	HH	25844	670568	11.13%	0.376%
393	19.169	19.130	19.205	HH	177493	3234556	53.67%	1.813%
394	19.227	19.205	19.242	HH	28505	609338	10.11%	0.342%
395	19.270	19.242	19.303	HH	38105	1196546	19.85%	0.671%
396	19.313	19.303	19.342	HH	31367	710618	11.79%	0.398%
397	19.362	19.342	19.385	HH	30030	771373	12.80%	0.432%
398	19.426	19.385	19.431	HH	30286	823752	13.67%	0.462%
399	19.460	19.431	19.465	HH	32072	635031	10.54%	0.356%
400	19.489	19.465	19.499	HH	33793	671068	11.13%	0.376%
401	19.523	19.499	19.534	HH	41841	806328	13.38%	0.452%
402	19.554	19.534	19.593	HH	47907	1503830	24.95%	0.843%
403	19.606	19.593	19.642	HH	38980	1095602	18.18%	0.614%
404	19.670	19.642	19.708	HH	38738	1479765	24.55%	0.830%

Instrument :

FID_E

ClientSampleId :

WASTEMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

						Instrument : FID_E ClientSampleId : WASTEMSD		
rteres								
405	19.733	19.708	19.764	HH	42494	1301502	21.59%	0.730%
						Manual IntegrationsAPPROVED		
406	19.774	19.764	19.787	HH	37437	507030	8.32%	0.352%
407	19.809	19.787	19.823	HH	39357	831070	13.01%	0.533%
408	19.848	19.823	19.872	HH	42783	1202180	19.01%	0.733%
409	19.888	19.872	19.914	HH	43080	1037881	17.01%	0.658%
410	19.951	19.914	19.986	HH	197471	3793300	62.01%	2.342%
411	20.014	19.986	20.029	HH	50922	1194457	19.82%	0.670%
412	20.044	20.029	20.090	HH	49916	1697491	28.16%	0.952%
413	20.106	20.090	20.125	HH	43735	897924	14.90%	0.503%
414	20.148	20.125	20.162	HH	45709	996220	16.53%	0.558%
415	20.176	20.162	20.187	HH	45343	681048	11.30%	0.382%
416	20.204	20.187	20.221	HH	45666	924445	15.34%	0.518%
417	20.248	20.221	20.260	HH	46882	1087789	18.05%	0.610%
418	20.295	20.260	20.312	HH	50606	1515769	25.15%	0.850%
419	20.341	20.312	20.373	HH	65696	2055445	34.10%	1.152%
420	20.406	20.373	20.437	HH	53504	1976285	32.79%	1.108%
421	20.452	20.437	20.475	HH	50421	1134289	18.82%	0.636%
422	20.511	20.475	20.525	HH	51690	1528547	25.36%	0.857%
423	20.598	20.525	20.627	HH	56465	3324100	55.15%	1.863%
424	20.689	20.627	20.734	HH	219939	6027162	100.00%	3.379%
425	20.744	20.734	20.750	HH	57049	561834	9.32%	0.315%
426	20.833	20.750	20.851	HH	61842	3588124	59.53%	2.011%
427	20.871	20.851	20.890	HH	62810	1451403	24.08%	0.814%
428	20.906	20.890	20.913	HH	60501	816839	13.55%	0.458%
429	20.919	20.913	20.923	HH	60546	366993	6.09%	0.206%
430	20.929	20.923	20.936	HH	60614	477475	7.92%	0.268%
431	20.963	20.936	21.008	HH	60618	2597646	43.10%	1.456%
432	21.038	21.008	21.057	HH	63963	1827242	30.32%	1.024%
433	21.069	21.057	21.117	HH	63820	2228505	36.97%	1.249%
434	21.143	21.117	21.202	HH	65124	3116880	51.71%	1.747%
435	21.211	21.202	21.235	HH	59284	1157515	19.20%	0.649%
436	21.304	21.235	21.389	HH	61276	5556683	92.19%	3.115%
437	21.417	21.389	21.435	HH	59558	1632784	27.09%	0.915%
438	21.483	21.435	21.529	HH	193471	5596214	92.85%	3.137%
439	21.564	21.529	21.615	HH	65202	3203390	53.15%	1.796%
440	21.644	21.615	21.724	HH	61404	3893179	64.59%	2.182%
441	21.727	21.724	21.765	HH	58664	1466347	24.33%	0.822%
442	21.771	21.765	21.775	HH	58121	322804	5.36%	0.181%
443	21.825	21.775	21.891	HH	63259	4143008	68.74%	2.322%
444	21.898	21.891	21.904	HH	57328	417716	6.93%	0.234%
445	21.911	21.904	21.921	HH	57473	592523	9.83%	0.332%
446	21.958	21.921	21.990	HH	58988	2414346	40.06%	1.353%
447	22.033	21.990	22.048	HH	58335	1985197	32.94%	1.113%
448	22.052	22.048	22.099	HH	58181	1767383	29.32%	0.991%
449	22.105	22.099	22.112	HH	57495	469555	7.79%	0.263%
450	22.122	22.112	22.128	HH	57381	555825	9.22%	0.312%
451	22.173	22.128	22.187	HH	57957	2032158	33.72%	1.139%
452	22.195	22.187	22.200	HH	57815	463234	7.69%	0.260%
453	22.204	22.200	22.224	HH	57661	797327	13.23%	0.447%
454	22.227	22.224	22.267	HH	57544	1494360	24.79%	0.838%
455	22.274	22.267	22.279	HH	56291	377698	6.27%	0.212%
456	22.361	22.279	22.372	HH	57433	3185682	52.86%	1.786%

457 22.405 22.372 22.441 HH 59606 2430957 40.33% 1.363%
Sum of corrected areas: 1783

FE012325.M Mon Feb 03 02:51:11 2025

Instrument :
FID_E
ClientSampleId :
WASTEMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
.BLK		FE052167.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:08:00 PM	Peak Integrated by Software incorrectly
PB166415BS		FE052172.D	FE013125	N-OCTADECANE	Ankita	2/3/2025 1:07:23 PM	Peak Integrated by Software incorrectly
PB166415BS		FE052172.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:23 PM	Peak Integrated by Software incorrectly
Q1241-13		FE052176.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:25 PM	Peak Integrated by Software incorrectly
Q1242-01		FE052178.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:26 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052180.D	FE013125	N-OCTACOSANE	Ankita	2/3/2025 1:07:28 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052180.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:28 PM	Peak Integrated by Software incorrectly
Q1241-05		FE052184.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:30 PM	Peak Integrated by Software incorrectly
Q1241-09		FE052185.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:31 PM	Peak Integrated by Software incorrectly
Q1241-17		FE052187.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:33 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052190.D	FE013125	N-OCTACOSANE	Ankita	2/3/2025 1:07:34 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052192.D	FE013125	N-DOTRIACONTANE	Ankita	2/3/2025 1:07:35 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052192.D	FE013125	N-OCTACOSANE	Ankita	2/3/2025 1:07:35 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052192.D	FE013125	N-TRIACONTANE	Ankita	2/3/2025 1:07:35 PM	Peak Integrated by Software incorrectly
PB166433BS		FE052195.D	FE013125	N-DOTRIACONTANE	Ankita	2/3/2025 1:07:37 PM	Peak Integrated by Software incorrectly
Q1236-01MS		FE052197.D	FE013125	N-HEXATRIACONTANE	Ankita	2/3/2025 1:07:39 PM	Peak Integrated by Software incorrectly
Q1236-01MS		FE052197.D	FE013125	N-OCTACOSANE	Ankita	2/3/2025 1:07:39 PM	Peak Integrated by Software incorrectly
Q1236-01MS		FE052197.D	FE013125	N-OCTADECANE	Ankita	2/3/2025 1:07:39 PM	Peak Integrated by Software incorrectly
Q1236-01MS		FE052197.D	FE013125	N-TETRATRIACONTANE	Ankita	2/3/2025 1:07:39 PM	Peak Integrated by Software incorrectly
Q1236-01MSD		FE052198.D	FE013125	N-HEXATRIACONTANE	Ankita	2/3/2025 1:07:40 PM	Peak Integrated by Software incorrectly
Q1236-01MSD		FE052198.D	FE013125	N-OCTACOSANE	Ankita	2/3/2025 1:07:40 PM	Peak Integrated by Software incorrectly
Q1236-01MSD		FE052198.D	FE013125	N-OCTADECANE	Ankita	2/3/2025 1:07:40 PM	Peak Integrated by Software incorrectly

Manual Integration Report

.BLK		FE052200.D	FE013125	TETRACOSANE-d50 (SURROGA	Ankita	2/3/2025 1:07:42 PM	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FE052201.D	FE013125	N-DOTRIACONTANE	Ankita	2/3/2025 1:07:43 PM	Peak Integrated by Software incorrectly

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE012325

Review By	yogesh	Review On	1/23/2025 3:09:47 PM
Supervise By	sohil	Supervise On	1/24/2025 2:02:13 PM
SubDirectory	FE012325	HP Acquire Method	HP Processing Method FE012325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE052025.D	23 Jan 2025 21:06	YP\AJ	Ok
2	I.BLK	FE052026.D	23 Jan 2025 21:35	YP\AJ	Ok
3	100 TRPH STD	FE052027.D	23 Jan 2025 22:06	YP\AJ	Ok
4	50 TRPH STD	FE052028.D	23 Jan 2025 23:06	YP\AJ	Ok
5	20 TRPH STD	FE052029.D	23 Jan 2025 23:36	YP\AJ	Ok
6	10 TRPH STD	FE052030.D	24 Jan 2025 00:06	YP\AJ	Ok
7	5 TRPH STD	FE052031.D	24 Jan 2025 00:36	YP\AJ	Ok
8	FE012325ICV	FE052032.D	24 Jan 2025 01:06	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE013125

Review By	yogesh	Review On	1/31/2025 12:39:58 PM
Supervise By	Ankita	Supervise On	2/3/2025 1:08:07 PM
SubDirectory	FE013125	HP Acquire Method	HP Processing Method FE012325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC Internal Standard/PEM	PP23963		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23962,PP23967		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE052166.D	31 Jan 2025 09:26	YP\AJ	Ok
2	I.BLK	FE052167.D	31 Jan 2025 09:56	YP\AJ	Ok,M
3	50 PPM TRPH STD	FE052168.D	31 Jan 2025 10:26	YP\AJ	Ok
4	RT MARKER	FE052169.D	31 Jan 2025 11:07	YP\AJ	Ok
5	PP24162	FE052170.D	31 Jan 2025 11:37	YP\AJ	Ok
6	PB166415BL	FE052171.D	31 Jan 2025 12:08	YP\AJ	Ok
7	PB166415BS	FE052172.D	31 Jan 2025 12:38	YP\AJ	Ok,M
8	Q1241-01	FE052173.D	31 Jan 2025 13:08	YP\AJ	Dilution
9	Q1241-05	FE052174.D	31 Jan 2025 13:38	YP\AJ	Dilution
10	Q1241-09	FE052175.D	31 Jan 2025 14:08	YP\AJ	Dilution
11	Q1241-13	FE052176.D	31 Jan 2025 14:39	YP\AJ	Dilution
12	Q1241-17	FE052177.D	31 Jan 2025 15:09	YP\AJ	Dilution
13	Q1242-01	FE052178.D	31 Jan 2025 15:39	YP\AJ	Dilution
14	I.BLK	FE052179.D	31 Jan 2025 16:09	YP\AJ	Ok
15	50 PPM TRPH STD	FE052180.D	31 Jan 2025 16:40	YP\AJ	Ok,M
16	Q1241-05MS	FE052181.D	31 Jan 2025 17:10	YP\AJ	Ok
17	Q1241-05MSD	FE052182.D	31 Jan 2025 17:40	YP\AJ	Ok
18	Q1241-01	FE052183.D	31 Jan 2025 18:11	YP\AJ	Ok
19	Q1241-05	FE052184.D	31 Jan 2025 18:41	YP\AJ	Ok,M
20	Q1241-09	FE052185.D	31 Jan 2025 19:11	YP\AJ	Ok,M
21	Q1241-13	FE052186.D	31 Jan 2025 19:41	YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE013125

Review By	yogesh	Review On	1/31/2025 12:39:58 PM
Supervise By	Ankita	Supervise On	2/3/2025 1:08:07 PM
SubDirectory	FE013125	HP Acquire Method	HP Processing Method FE012325
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	Q1241-17	FE052187.D	31 Jan 2025 20:12	YP\AJ	Ok,M
23	Q1242-01	FE052188.D	31 Jan 2025 20:42	YP\AJ	Ok
24	I.BLK	FE052189.D	31 Jan 2025 21:12	YP\AJ	Ok
25	50 PPM TRPH STD	FE052190.D	31 Jan 2025 22:12	YP\AJ	Ok,M
26	I.BLK	FE052191.D	31 Jan 2025 23:13	YP\AJ	Ok
27	50 PPM TRPH STD	FE052192.D	01 Feb 2025 00:13	YP\AJ	Ok,M
28	RT MARKER	FE052193.D	01 Feb 2025 01:14	YP\AJ	Ok
29	PB166433BL	FE052194.D	01 Feb 2025 02:14	YP\AJ	Ok
30	PB166433BS	FE052195.D	01 Feb 2025 02:44	YP\AJ	Ok,M
31	Q1236-01	FE052196.D	01 Feb 2025 03:15	YP\AJ	Ok
32	Q1236-01MS	FE052197.D	01 Feb 2025 03:45	YP\AJ	Ok,M
33	Q1236-01MSD	FE052198.D	01 Feb 2025 04:15	YP\AJ	Ok,M
34	Q1236-01	FE052199.D	01 Feb 2025 04:45	YP\AJ	Not Ok
35	I.BLK	FE052200.D	01 Feb 2025 05:15	YP\AJ	Ok,M
36	50 PPM TRPH STD	FE052201.D	01 Feb 2025 06:15	YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE012325

Review By	yogesh	Review On	1/23/2025 3:09:47 PM
Supervise By	sohil	Supervise On	1/24/2025 2:02:13 PM
SubDirectory	FE012325	HP Acquire Method	HP Processing Method FE012325

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FE052025.D	23 Jan 2025 21:06		YP\AJ	Ok
2	I.BLK		FE052026.D	23 Jan 2025 21:35		YP\AJ	Ok
3	100 TRPH STD		FE052027.D	23 Jan 2025 22:06		YP\AJ	Ok
4	50 TRPH STD		FE052028.D	23 Jan 2025 23:06		YP\AJ	Ok
5	20 TRPH STD		FE052029.D	23 Jan 2025 23:36		YP\AJ	Ok
6	10 TRPH STD		FE052030.D	24 Jan 2025 00:06		YP\AJ	Ok
7	5 TRPH STD		FE052031.D	24 Jan 2025 00:36		YP\AJ	Ok
8	FE012325ICV		FE052032.D	24 Jan 2025 01:06		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE013125

Review By	yogesh	Review On	1/31/2025 12:39:58 PM
Supervise By	Ankita	Supervise On	2/3/2025 1:08:07 PM
SubDirectory	FE013125	HP Acquire Method	HP Processing Method FE012325

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FE052166.D	31 Jan 2025 09:26		YP\AJ	Ok
2	I.BLK		FE052167.D	31 Jan 2025 09:56		YP\AJ	Ok,M
3	50 PPM TRPH STD		FE052168.D	31 Jan 2025 10:26		YP\AJ	Ok
4	RT MARKER		FE052169.D	31 Jan 2025 11:07		YP\AJ	Ok
5	PP24162		FE052170.D	31 Jan 2025 11:37		YP\AJ	Ok
6	PB166415BL		FE052171.D	31 Jan 2025 12:08		YP\AJ	Ok
7	PB166415BS		FE052172.D	31 Jan 2025 12:38		YP\AJ	Ok,M
8	Q1241-01		FE052173.D	31 Jan 2025 13:08	need 10x dilution	YP\AJ	Dilution
9	Q1241-05		FE052174.D	31 Jan 2025 13:38	need 10x dilution	YP\AJ	Dilution
10	Q1241-09		FE052175.D	31 Jan 2025 14:08	need 10x dilution	YP\AJ	Dilution
11	Q1241-13		FE052176.D	31 Jan 2025 14:39	need 10x dilution	YP\AJ	Dilution
12	Q1241-17		FE052177.D	31 Jan 2025 15:09	need 10x dilution	YP\AJ	Dilution
13	Q1242-01		FE052178.D	31 Jan 2025 15:39	need 10x dilution	YP\AJ	Dilution
14	I.BLK		FE052179.D	31 Jan 2025 16:09		YP\AJ	Ok
15	50 PPM TRPH STD		FE052180.D	31 Jan 2025 16:40		YP\AJ	Ok,M
16	Q1241-05MS		FE052181.D	31 Jan 2025 17:10		YP\AJ	Ok
17	Q1241-05MSD		FE052182.D	31 Jan 2025 17:40		YP\AJ	Ok
18	Q1241-01		FE052183.D	31 Jan 2025 18:11		YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE013125

Review By	yogesh	Review On	1/31/2025 12:39:58 PM
Supervise By	Ankita	Supervise On	2/3/2025 1:08:07 PM
SubDirectory	FE013125	HP Acquire Method	HP Processing Method
			FE012325
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23961,PP23963,PP23964,PP23965,PP23966		
CCC	PP23963		
Internal Standard/PEM			
ICV/I.BLK	PP23962,PP23967		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q1241-05		FE052184.D	31 Jan 2025 18:41		YPIAJ	Ok,M
20	Q1241-09		FE052185.D	31 Jan 2025 19:11		YPIAJ	Ok,M
21	Q1241-13		FE052186.D	31 Jan 2025 19:41		YPIAJ	Ok
22	Q1241-17		FE052187.D	31 Jan 2025 20:12		YPIAJ	Ok,M
23	Q1242-01		FE052188.D	31 Jan 2025 20:42		YPIAJ	Ok
24	I.BLK		FE052189.D	31 Jan 2025 21:12		YPIAJ	Ok
25	50 PPM TRPH STD		FE052190.D	31 Jan 2025 22:12		YPIAJ	Ok,M
26	I.BLK		FE052191.D	31 Jan 2025 23:13		YPIAJ	Ok
27	50 PPM TRPH STD		FE052192.D	01 Feb 2025 00:13		YPIAJ	Ok,M
28	RT MARKER		FE052193.D	01 Feb 2025 01:14		YPIAJ	Ok
29	PB166433BL		FE052194.D	01 Feb 2025 02:14		YPIAJ	Ok
30	PB166433BS		FE052195.D	01 Feb 2025 02:44		YPIAJ	Ok,M
31	Q1236-01		FE052196.D	01 Feb 2025 03:15		YPIAJ	Ok
32	Q1236-01MS		FE052197.D	01 Feb 2025 03:45		YPIAJ	Ok,M
33	Q1236-01MSD		FE052198.D	01 Feb 2025 04:15		YPIAJ	Ok,M
34	Q1236-01		FE052199.D	01 Feb 2025 04:45	not required	YPIAJ	Not Ok
35	I.BLK		FE052200.D	01 Feb 2025 05:15		YPIAJ	Ok,M
36	50 PPM TRPH STD		FE052201.D	01 Feb 2025 06:15		YPIAJ	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 2/3/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:35
In Date: 01/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:40
Out Date: 02/01/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134497

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
Q1236-01	WASTE	17	1.14	8.55	9.69	8.12	81.6	
Q1236-02	VOC	18	1.13	8.71	9.84	8.3	82.3	
Q1236-03	1	19	1.17	8.50	9.67	8.2	82.7	
Q1236-04	2	20	1.17	8.60	9.77	8.2	81.7	
Q1236-05	3	21	1.15	8.84	9.99	8.35	81.4	
Q1236-06	4	22	1.16	8.53	9.69	8.24	83.0	
Q1236-07	5	23	1.15	8.82	9.97	8.48	83.1	
Q1241-01	JPP-3.5-013025	1	1.15	8.58	9.73	8.41	84.6	
Q1241-03	JPP-3.5-013025	2	1.12	8.76	9.88	8.3	82.0	
Q1241-05	JPP-5.3-013025	3	1.15	8.43	9.58	8.68	89.3	
Q1241-07	JPP-5.3-013025	4	1.11	8.77	9.88	8.81	87.8	
Q1241-09	JPP-5.2-013025	5	1.15	8.59	9.74	8.65	87.3	
Q1241-11	JPP-5.2-013025	6	1.12	8.41	9.53	8.58	88.7	
Q1241-13	JPP-5.4-013025	7	1.16	8.66	9.82	8.69	87.0	
Q1241-15	JPP-5.4-013025	8	1.18	8.45	9.63	8.5	86.6	
Q1241-17	JPP-51.4-013025	9	1.14	8.55	9.69	9.12	93.3	
Q1241-19	JPP-51.4-013025	10	1.16	8.51	9.67	9.09	93.2	
Q1242-01	JPP-6.2-013025	11	1.15	8.80	9.95	8.32	81.5	
Q1242-03	JPP-6.2-013025	12	1.13	8.60	9.73	8.11	81.2	
Q1243-01	CL-01-01302025	13	1.16	8.40	9.56	9.12	94.8	
Q1243-02	CL-01-01302025-E2	14	1.13	8.70	9.83	9.36	94.6	
Q1244-01	EO-02-01302025	15	1.18	8.71	9.89	9.36	93.9	
Q1244-02	EO-02-01302025-E2	16	1.12	8.80	9.92	9.42	94.3	
Q1254-01	OK-02-01312025	24	1.16	8.40	9.56	8.48	87.1	
Q1254-02	OK-02-01312025-E2	25	1.15	8.83	9.98	9.6	95.7	
Q1257-01	013025	42	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1258-01	112224A	43	1.00	1.00	2.00	2.00	100.0	debris
Q1259-01	12825	44	1.14	8.70	9.84	8.7	86.9	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 2/3/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:35
In Date: 01/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:40
Out Date: 02/01/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134497

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
Q1260-01	12925-A	45	1.00	1.00	2.00	2.00	100.0	debris
Q1260-02	12925-BC	46	1.16	8.42	9.58	9.2	95.5	
Q1261-01	CHRT-20430	47	1.14	8.43	9.57	5.86	56.0	
Q1261-02	CHRT-20430-E2	48	1.12	8.77	9.89	5.93	54.8	
Q1262-01	ETGI-371	49	1.15	8.70	9.85	8.64	86.1	
Q1262-02	ETGI-371-E2	50	1.16	8.82	9.98	8.78	86.4	
Q1262-03	CONCRETE-PAD	51	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1262-04	CONCRETE-PAD-E2	52	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1262-05	3762	53	1.00	1.00	2.00	2.00	100.0	debris
Q1263-01	KMA9027-1-1	54	1.00	1.00	2.00	2.00	100.0	oilc
Q1263-02	KMA9027-1-2	55	1.00	1.00	2.00	2.00	100.0	oilc
Q1263-03	BC274653-1-1	56	1.00	1.00	2.00	2.00	100.0	oilc
Q1263-04	BC274653-1-2	57	1.00	1.00	2.00	2.00	100.0	oilc
Q1264-01	AUD-1606	26	1.18	8.62	9.8	9.63	98.0	
Q1264-02	AUD-25-0008	27	1.11	8.71	9.82	7.77	76.5	
Q1265-01	AUD-25-0006	28	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1267-01	TRE-25-0003	29	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1267-02	TRE-25-0009	30	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1267-03	TRE-25-0011	31	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1268-05	SVOC-GPC-BLANK	32	1.00	1.00	2.00	2.00	100.0	
Q1268-06	PEST-GPC-BLANK	33	1.00	1.00	2.00	2.00	100.0	
Q1268-07	PEST-GPC-BLANK-SPIKE	34	1.00	1.00	2.00	2.00	100.0	
Q1268-08	PCB-GPC-BLANK	35	1.00	1.00	2.00	2.00	100.0	
Q1268-09	PCB-GPC-BLANK-SPIKE	36	1.00	1.00	2.00	2.00	100.0	
Q1268-10	SVOC-GPC2-BLANK	37	1.00	1.00	2.00	2.00	100.0	
Q1268-11	PEST-GPC2-BLANK	38	1.00	1.00	2.00	2.00	100.0	
Q1268-12	PEST-GPC2-BLANK-SPIKE	39	1.00	1.00	2.00	2.00	100.0	
Q1268-13	PCB-GPC2-BLANK	40	1.00	1.00	2.00	2.00	100.0	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 2/3/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:35
In Date: 01/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:40
Out Date: 02/01/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134497

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
Q1268-14	PCB-GPC2-BLANK-SPIKE	41	1.00	1.00	2.00	2.00	100.0	
Q1269-01	VNJ-231	58	1.17	8.81	9.98	9.00	88.9	
Q1269-02	VNJ-231-E2	59	1.12	8.86	9.98	9.1	90.1	
Q1270-01	BC247799-1-1	60	1.00	1.00	2.00	2.00	100.0	oilc
Q1270-02	BC247799-1-2	61	1.00	1.00	2.00	2.00	100.0	oilc
Q1270-03	BC274768-1-1	62	1.00	1.00	2.00	2.00	100.0	oilc
Q1270-04	BC274768-1-2	63	1.00	1.00	2.00	2.00	100.0	oilc
Q1270-05	BC274768-2-1	64	1.00	1.00	2.00	2.00	100.0	oilc
Q1270-06	BC274768-2-2	65	1.00	1.00	2.00	2.00	100.0	oilc
Q1271-01	RBR200030	66	1.12	8.74	9.86	8.87	88.7	
Q1271-02	RBR200030-E2	67	1.17	8.53	9.7	9.02	92.0	
Q1271-03	3189-3196	68	1.00	1.00	2.00	2.00	100.0	oil sample

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

WORKLIST(Hardcopy Internal Chain)

2134497

WorkList Name : %1-013125

WorkList ID : 187328

Department : Wet-Chemistry

Date : 01-31-2025 07:56:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1236-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	E11	01/30/2025	Chemtech -SO
Q1236-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	E11	01/30/2025	Chemtech -SO
Q1236-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	E11	01/30/2025	Chemtech -SO
Q1236-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	E11	01/30/2025	Chemtech -SO
Q1236-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	E11	01/30/2025	Chemtech -SO
Q1236-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	E11	01/30/2025	Chemtech -SO
Q1236-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	E11	01/30/2025	Chemtech -SO
Q1241-01	JPP-3.5-013025	Solid	Percent Solids	Cool 4 deg C	SCIA01	E11	01/30/2025	Chemtech -SO
Q1241-03	JPP-3.5-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1241-05	JPP-5.3-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1241-07	JPP-5.3-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1241-09	JPP-5.2-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1241-11	JPP-5.2-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1241-13	JPP-5.4-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1241-15	JPP-5.4-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1241-17	JPP-5.1.4-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1241-19	JPP-5.1.4-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1242-01	JPP-6.2-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1242-03	JPP-6.2-013025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1243-01	CL-01-01302025	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/30/2025	Chemtech -SO
Q1243-02	CL-01-01302025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	01/30/2025	Chemtech -SO

Date/Time 01/31/25 16:10

Raw Sample Received by: JO GDC

Raw Sample Relinquished by: RS C E A T - I A N

Date/Time 01/31/25

Raw Sample Received by: RS C E A T - I A N

Raw Sample Relinquished by: JO GDC

WORKLIST(Hardcopy Internal Chain)

13497

WorkList Name : %1-013125

WorkList ID : 187328

Department : Wet-Chemistry

Date : 01-31-2025 07:56:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1244-01	EO-02-01302025	Solid	Percent Solids	Cool 4 deg C	PSEG05	N51	01/30/2025	Chemtech -SO
Q1244-02	EO-02-01302025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	N51	01/30/2025	Chemtech -SO
Q1254-01	OK-02-01312025	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	01/31/2025	Chemtech -SO
Q1254-02	OK-02-01312025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	01/31/2025	Chemtech -SO
Q1257-01	013025	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1258-01	112224A	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1259-01	12825	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1260-01	12925-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/31/2025	Chemtech -SO
Q1260-02	12925-BC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/31/2025	Chemtech -SO
Q1261-01	CHRT-20430	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/31/2025	Chemtech -SO
Q1261-02	CHRT-20430-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/31/2025	Chemtech -SO
Q1262-01	ETGI-371	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1262-02	ETGI-371-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1262-03	CONCRETE-PAD	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1262-04	CONCRETE-PAD-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1262-05	3762	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1263-01	KMA9027-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	N11	01/31/2025	Chemtech -SO
Q1263-02	KMA9027-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N11	01/31/2025	Chemtech -SO
Q1263-03	BC274653-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	N11	01/31/2025	Chemtech -SO
Q1263-04	BC274653-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N11	01/31/2025	Chemtech -SO
Q1264-01	AUD-1606	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/31/2025	Chemtech -SO

Date/Time 01/31/25 16:10
Raw Sample Received by: SA wdcj
Raw Sample Relinquished by: RJ c.EXT-1 lab

Date/Time 01/31/25 17:50
Raw Sample Received by: SA wdcj
Raw Sample Relinquished by: RJ c.EXT-1 lab

WORKLIST(Hardcopy Internal Chain)

134497

WorkList Name : %1-013125

WorkList ID : 187328

Department : Wet-Chemistry

Date : 01-31-2025 07:56:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1264-02	AUD-25-0008	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/31/2025	Chemtech -SO
Q1265-01	AUD-25-0006	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1267-01	TRE-25-0003	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1267-02	TRE-25-0009	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1267-03	TRE-25-0011	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/31/2025	Chemtech -SO
Q1268-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1268-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	01/31/2025	Chemtech -SO
Q1269-01	VNJ-231	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	01/31/2025	Chemtech -SO
Q1269-02	VNJ-231-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	01/31/2025	Chemtech -SO
Q1270-01	BC247799-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	01/31/2025	Chemtech -SO
Q1270-02	BC247799-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	01/31/2025	Chemtech -SO
Q1270-03	BC247768-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	01/31/2025	Chemtech -SO
Q1270-04	BC247768-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	01/31/2025	Chemtech -SO

Date/Time 01/31/25 16:10
Raw Sample Received by: SA WOC
Raw Sample Relinquished by: RS (EST-104)

Date/Time 01/31/25 17:50
Raw Sample Received by: RS (EST-104)
Raw Sample Relinquished by: SA WOC

WORKLIST(Hardcopy Internal Chain)

1234567

WorkList Name : %1-013125 WorkList ID : 187328 Department : Wet-Chemistry Date : 01-31-2025 07:56:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1270-05	BC274768-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	01/31/2025	Chemtech -SO
Q1270-06	BC274768-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	01/31/2025	Chemtech -SO
Q1271-01	RBR200030	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	01/31/2025	Chemtech -SO
Q1271-02	RBR200030-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	01/31/2025	Chemtech -SO
Q1271-03	3189-3196	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	01/31/2025	Chemtech -SO

Date/Time 01/31/25 16:10
 Raw Sample Received by: J8 WPC
 Raw Sample Relinquished by: RJ C-ET-106

Date/Time 01/31/25 17:50
 Raw Sample Received by: RJ C-ET-106
 Raw Sample Relinquished by: J8 WPC

SOP ID:	M3541-ASE Extraction-14		
Clean Up SOP #:	N/A	Extraction Start Date :	01/31/2025
Matrix :	Solid	Extraction Start Time :	12:05
Weigh By:	EH	Extraction By:	RJ
Balance check:	RJ	Filter By:	RJ
Balance ID:	EX-SC-2	pH Meter ID:	N/A
pH Strip Lot#:	N/A	Hood ID:	3,7
		Concentration By:	EH
		Supervisor By :	rajesh

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

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	20 PPM	PP23913
Surrogate	1.0ML	20 PPM	PP23935
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	EP2578
Baked Na2SO4	N/A	EP2580
Sand	N/A	E2865
Methylene Chloride	N/A	E3874
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

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

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/31/25	RL (Set 1as)	Y.P.Pest/PCB
15:05	Preparation Group	Analysis Group



EXTRACTION LOGPAGE

PrepBatch ID : PB166433

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 01/31/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166433BL	PB166433BL	TPH GC	30.02	N/A	ritesh	Evelyn	1			U4-1
PB166433BS	PB166433BS	TPH GC	30.03	N/A	ritesh	Evelyn	1			2
Q1236-01	WASTE	TPH GC	30.09	N/A	ritesh	Evelyn	1			3
Q1236-01MS	WASTEMS	TPH GC	30.04	N/A	ritesh	Evelyn	1			4
Q1236-01MS D	WASTEMSD	TPH GC	30.06	N/A	ritesh	Evelyn	1			5

* Extracts relinquished on the same date as received.

8/31/25

166433
704 12-05

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1236 WorkList ID : 187359 Department : Extraction Date : 01-31-2025 12:00:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1236-01	WASTE	Solid	TPH GC	Cool 4 deg C	SCIA01	E11	01/30/2025	8015D
Q1236-03	1	Solid	EPH_F2	Cool 4 deg C	SCIA01	E11	01/30/2025	NJEPH
Q1236-04	2	Solid	EPH_F2	Cool 4 deg C	SCIA01	E11	01/30/2025	NJEPH
Q1236-05	3	Solid	EPH_F2	Cool 4 deg C	SCIA01	E11	01/30/2025	NJEPH
Q1236-06	4	Solid	EPH_F2	Cool 4 deg C	SCIA01	E11	01/30/2025	NJEPH
Q1236-07	5	Solid	EPH_F2	Cool 4 deg C	SCIA01	E11	01/30/2025	NJEPH

Date/Time 01/31/25 12:03
Raw Sample Received by: DJ (COA Lab)
Raw Sample Relinquished by: DJ (Lab)

Date/Time 01/31/25 12:15
Raw Sample Received by: DJ (Lab)
Raw Sample Relinquished by: DJ (Lab)

Prep Standard - Chemical Standard Summary

Order ID : Q1236

Test : TPH GC

Prepbatch ID : PB166433,

Sequence ID/Qc Batch ID: FE013125,

Standard ID :

EP2578,EP2580,PP23913,PP23935,PP23961,PP23962,PP23963,PP23964,PP23965,PP23966,PP23967,

Chemical ID :

E2865,E3551,E3822,E3828,E3846,E3848,E3874,P11958,P11959,P13104,P13109,P13213,P13218,P13219,P13492,P13493,P13494,P13495,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2578	01/06/2025	06/18/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 01/06/2025

FROM 8000.00000ml of E3846 + 8000.00000ml of E3848 = Final Quantity: 16000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2580	01/17/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/17/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3609	20 PPM DRO SPIKE SOLUTION (RESTEK)	PP23913	10/25/2024	04/23/2025	Yogesh Patel	None	None	Ankita Jodhani
								10/25/2024

FROM 1.00000ml of P13104 + 1.00000ml of P13109 + 48.00000ml of E3822 = Final Quantity: 50.000 ml

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

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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
433	100/100 PPM DRO (Restek)	PP23961	11/13/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/13/2024

FROM 1.00000ml of P11958 + 1.00000ml of P11959 + 1.00000ml of P13213 + 7.00000ml of E3828 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3796	100/100 PPM DRO STD (CPI)	PP23962	11/13/2024	02/14/2025	Yogesh Patel	None	None	Ankita Jodhani
								11/13/2024

FROM 1.00000ml of P13213 + 1.00000ml of P13218 + 1.00000ml of P13219 + 7.00000ml of E3828 = Final Quantity: 10.000 ml

Pest/Pcb STANDARD PREPARATION LOG

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

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

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

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

Pest/Pcb STANDARD PREPARATION LOG

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

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

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

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



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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	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	07/01/2025	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)	24I2662006	04/23/2025	10/24/2024 / Rajesh	10/24/2024 / Rajesh	E3822

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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 #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

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)	24K1762005	06/18/2025	12/18/2024 / Rajesh	12/09/2024 / Rajesh	E3848

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)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

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	A0204859	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0204859	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13109

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

CHEMICAL RECEIPT LOG BOOK

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

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

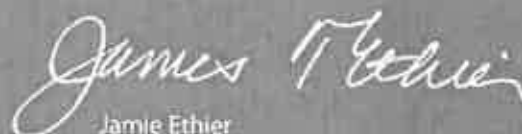
Certificate of Analysis

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.: 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	$\leq 1.0 \text{ ppm}$	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)

 **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	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 **avantors™**



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

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

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

Rec'd by RP On 12/13/24

E 3846



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)



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
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 3848

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

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

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



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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 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 3874

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

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



CERTIFIED REFERENCE MATERIAL

110 Benner Circle

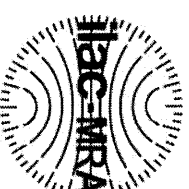
Belleville, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31266

Lot No.: A0186840

Description : Florida TRPH Standard

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

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2029

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

CERTIFIED VALUES

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

P11948 } 7.8
P11962 } 07/11/16

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

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

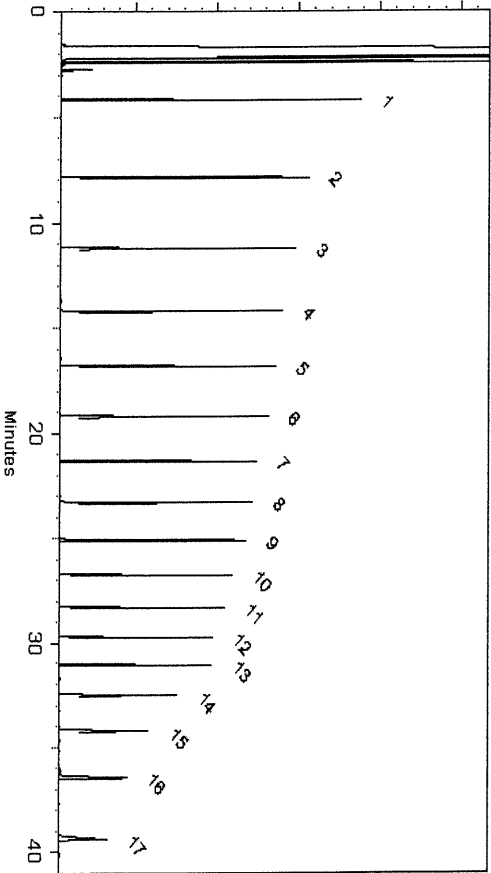
250°C

Det. Temp:

330°C

Det. Type:

FID



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

Brittany Federinko

Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



CERTIFIED REFERENCE MATERIAL

110 Benner Circle

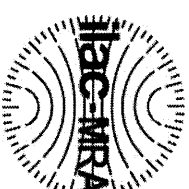
Belleville, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31266

Lot No.: A0186840

Description : Florida TRPH Standard

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

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2029

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

CERTIFIED VALUES

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

P11948 } 7.8
P11962 } 07/11/16

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

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

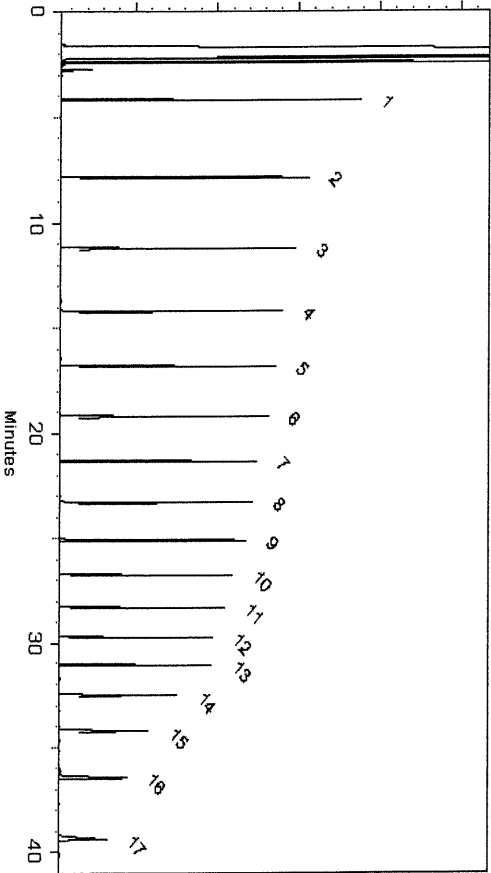
250°C

Det. Temp:

330°C

Det. Type:

FID



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

Brittany Federinko

Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Florida TRPH Standard

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

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

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

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

P13103 } Y.P.
↓
P13112 } 01/12/2024

CERTIFIED VALUES

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

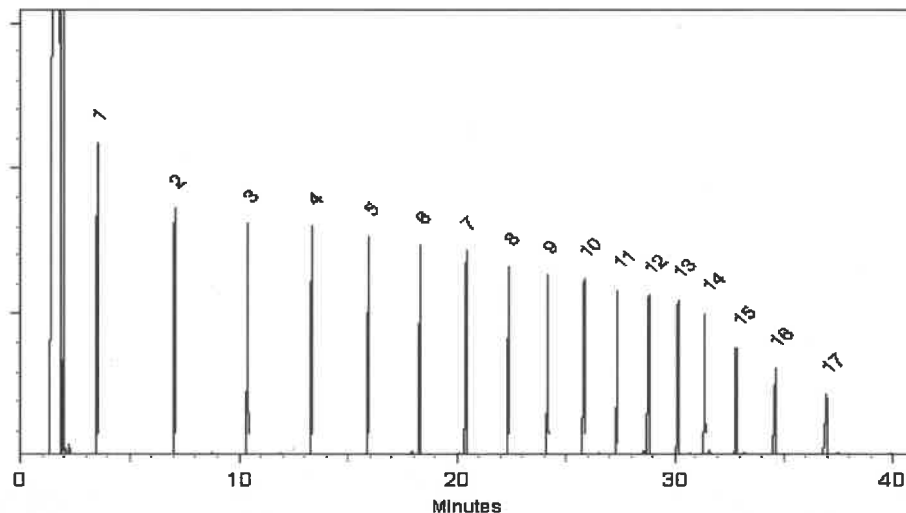
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl

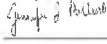


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Florida TRPH Standard

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

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

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

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

P13103 } Y.P.
↓
P13112 } 01/12/2024

CERTIFIED VALUES

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

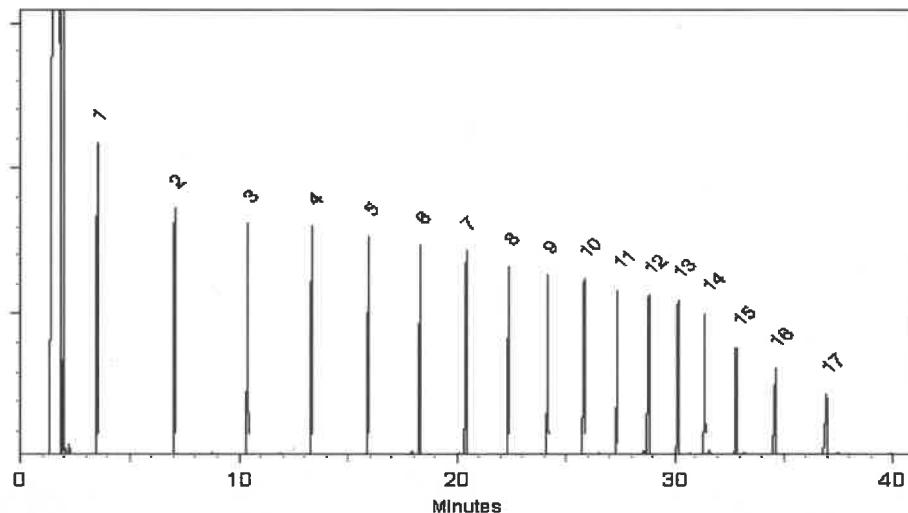
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl

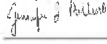


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



CERTIFIED WEIGHT REPORT

Part Number:	
Lot Number:	
Description:	

72072
101122
n-Tetracosane-d50

Solvent(s):	Lot#
Methylene chloride	105345

Formulated By:	Prashant Chauhan	DATE:	10/11/22
----------------	------------------	-------	----------

Expiration Date:	101132
Recommended Storage:	Ambient (20 °C)

Nominal Concentration ($\mu\text{g/mL}$):
NIST Test ID#:

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

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50

Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50

1. n-Tetracosane-d50

N/A

4.1 16416-32-3

0.20482 1000.6

0.2047.

99.0

0.2

86

10

PR-266

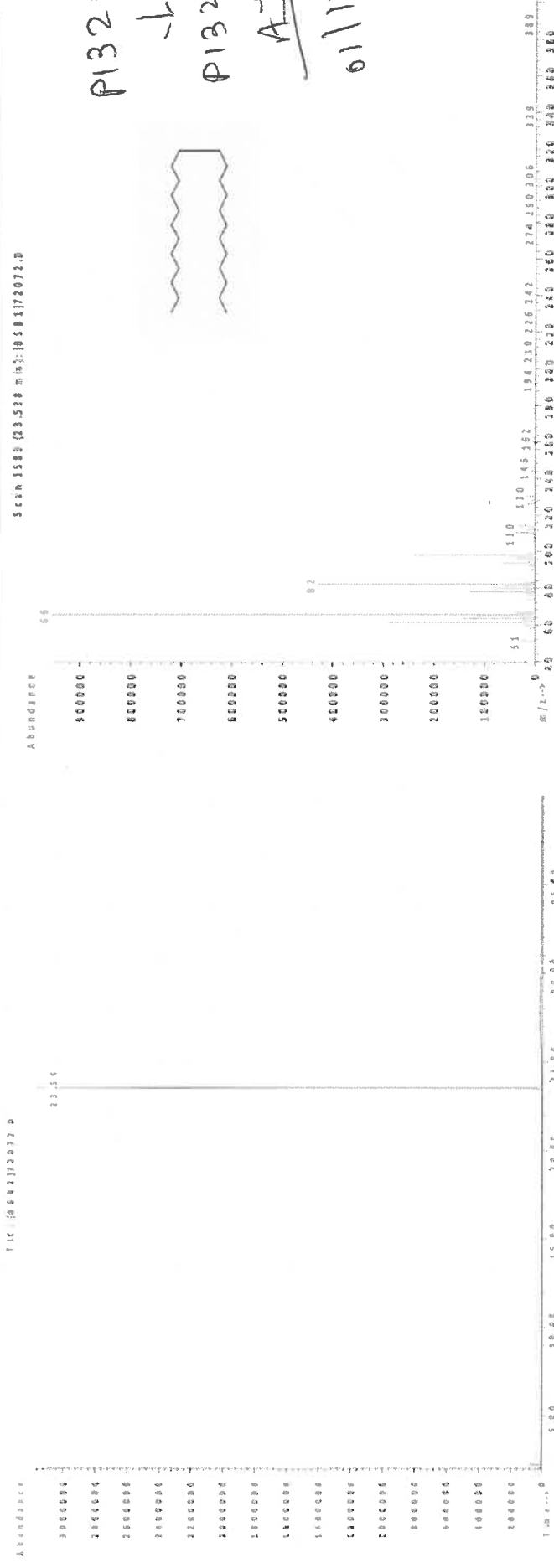
2072

50

Tracosar

1. n

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



• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.

- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).

• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.

- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.

- **Uncertainty Reference:** Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result,"

NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.: Storage:

Z-110400-05 514983 ≤-10 Degrees C

Solvent:

Hexane

Exp. Date:

11/20/2028

Description:

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

-01

Compound

CAS No.

Purity (%)

Compound Lot No.

Concentration, mg/L

decane (C10)

124-18-5

99.7

415.7.2P

498.5 ± 6.92

docosane (C22)

629-97-0

98.8

420.9.1P

499.4 ± 6.93

dodecane (C12)

112-40-3

99.7

416.9.3P

502 ± 6.97

dotriacontane (C32)

544-85-4

97

425.9.2.2P

499.6 ± 8.53

eicosane (C20)

112-95-8

99.8

419.7.1P

501 ± 6.95

hexacosane (C26)

630-01-3

99.3

422.7.2.1P

501 ± 6.95

hexatriacontane (C36)

630-06-8

98

427.29.1.1P

499.3 ± 8.53

n-hexadecane (C16)

544-76-3

99.45

368.27.1.1P

498.7 ± 6.91

octacosane (C28)

630-02-4

99.1

423.24.1P

500.5 ± 6.95

n-octadecane (C18)

593-45-3

99.5

418.29.1P

499.5 ± 6.92

octane (C8)

111-65-9

99.4

385.7.2.1P

498.5 ± 6.92

octatriacontane (C38)

7194-85-6

95

428.1.2P

500.2 ± 6.94

tetracontane (C40)

4181-95-7

97

429.7.2P

499.6 ± 6.93

n-tetracosane (C24)

646-31-1

99.5

421.7.1P

499.5 ± 6.93

n-tetradecane (C14)

629-59-4

99.3

417.9.1P

500 ± 6.94

tetratriacontane (C34)

14167-59-0

96.1

426.7.2.2P

499.7 ± 8.53

triacontane (C30)

638-68-6

99.5

424.7.1.1P

500 ± 6.94

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

P13215

↓

P13224

AJ
01131124

*Not a certified value

Andrea Schaible

Andrea Schaible
Chemist

Certified By: _____

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



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.: Storage:

Z-110400-05 514983 ≤-10 Degrees C

Solvent:

Hexane

Exp. Date:

11/20/2028

Description:

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

-01

Compound

CAS No.

Purity (%)

Compound Lot No.

Concentration, mg/L

decane (C10)

124-18-5

99.7

415.7.2P

498.5 ± 6.92

docosane (C22)

629-97-0

98.8

420.9.1P

499.4 ± 6.93

dodecane (C12)

112-40-3

99.7

416.9.3P

502 ± 6.97

dotriacontane (C32)

544-85-4

97

425.9.2.2P

499.6 ± 8.53

eicosane (C20)

112-95-8

99.8

419.7.1P

501 ± 6.95

hexacosane (C26)

630-01-3

99.3

422.7.2.1P

501 ± 6.95

hexatriacontane (C36)

630-06-8

98

427.29.1.1P

499.3 ± 8.53

n-hexadecane (C16)

544-76-3

99.45

368.27.1.1P

498.7 ± 6.91

octacosane (C28)

630-02-4

99.1

423.24.1P

500.5 ± 6.95

n-octadecane (C18)

593-45-3

99.5

418.29.1P

499.5 ± 6.92

octane (C8)

111-65-9

99.4

385.7.2.1P

498.5 ± 6.92

octatriacontane (C38)

7194-85-6

95

428.1.2P

500.2 ± 6.94

tetracontane (C40)

4181-95-7

97

429.7.2P

499.6 ± 6.93

n-tetracosane (C24)

646-31-1

99.5

421.7.1P

499.5 ± 6.93

n-tetradecane (C14)

629-59-4

99.3

417.9.1P

500 ± 6.94

tetatriacontane (C34)

14167-59-0

96.1

426.7.2.2P

499.7 ± 8.53

triacontane (C30)

638-68-6

99.5

424.7.1.1P

500 ± 6.94

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

P13215

↓

P13224

AJ
01131124

*Not a certified value

Andrea Schaible

Certified By: _____
Andrea Schaible
Chemist

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

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070721
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#:
Weight(s) shown below were combined and diluted to (mL): 500.0
5E-05 Balance Uncertainty
0.058 Mass Uncertainty

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

Run 35, "P10009R L070716 [4000µg/mL in MeCl2]"
Run Length: 40.00 min, 23900 points at 10 points/second.
Created: Sat, Jul 9, 2016 at 1:54:53 PM.
Sampled: Sequence "070816-GC/MS2", Method "GC-MS2".
Analyzed using Method "GC-MS2".

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 Data:

Peak No.	Name	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

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



CERTIFIED WEIGHT REPORT

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

Solvent(s):
Methylene chloride
Lot#
105345

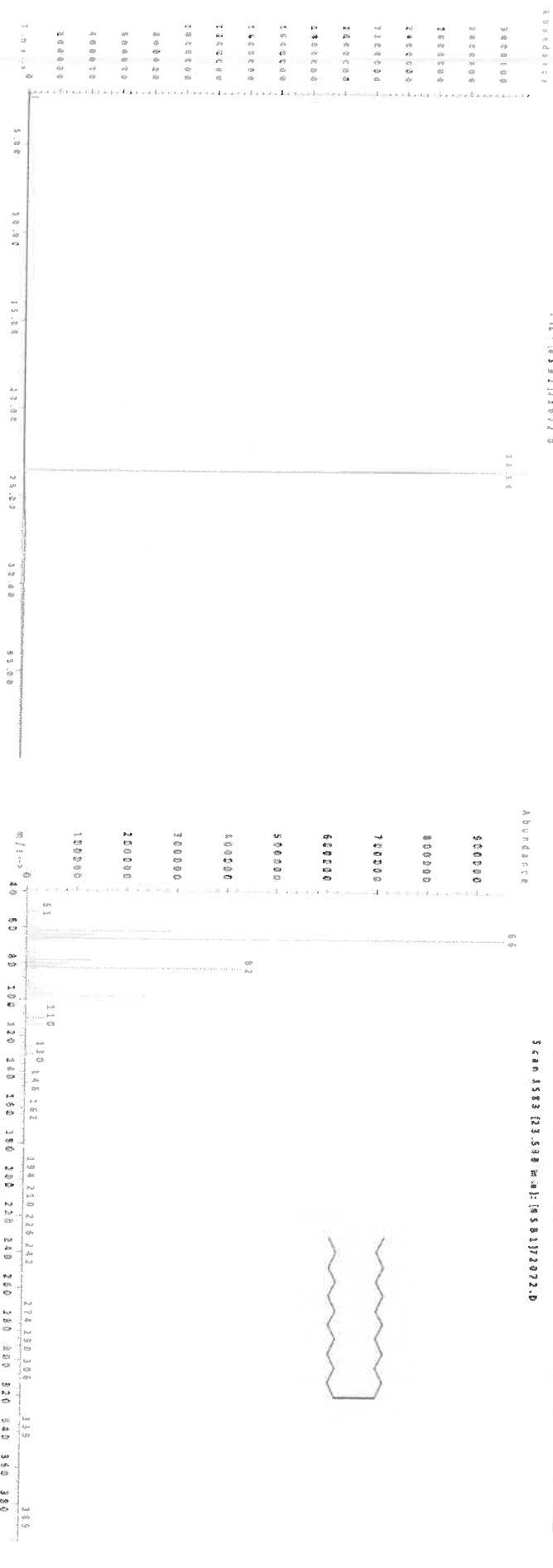
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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	Lot	Nominal Conc (µg/mL)	Purity (%)	Uncertainty (%)	Assay (%D)	SDS Information			
						Target Weight(g)	Actual Weight(g)	Expanded Uncertainty (Solvent Safety Info. On Attached pg.)	RM#
	Number								

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
070721
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#: 5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

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

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

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

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

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

Qualitative Quantitative

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

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

Formulator Reviewer

Formulated By: Paul Barron 070716
Reviewed By: Pedro L. Rentes 070716

Actual Concentration Uncertainty Values Health & Safety

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



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





CERTIFIED WEIGHT REPORT

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

Solvent(s):
Methylene chloride
Lot#
105345

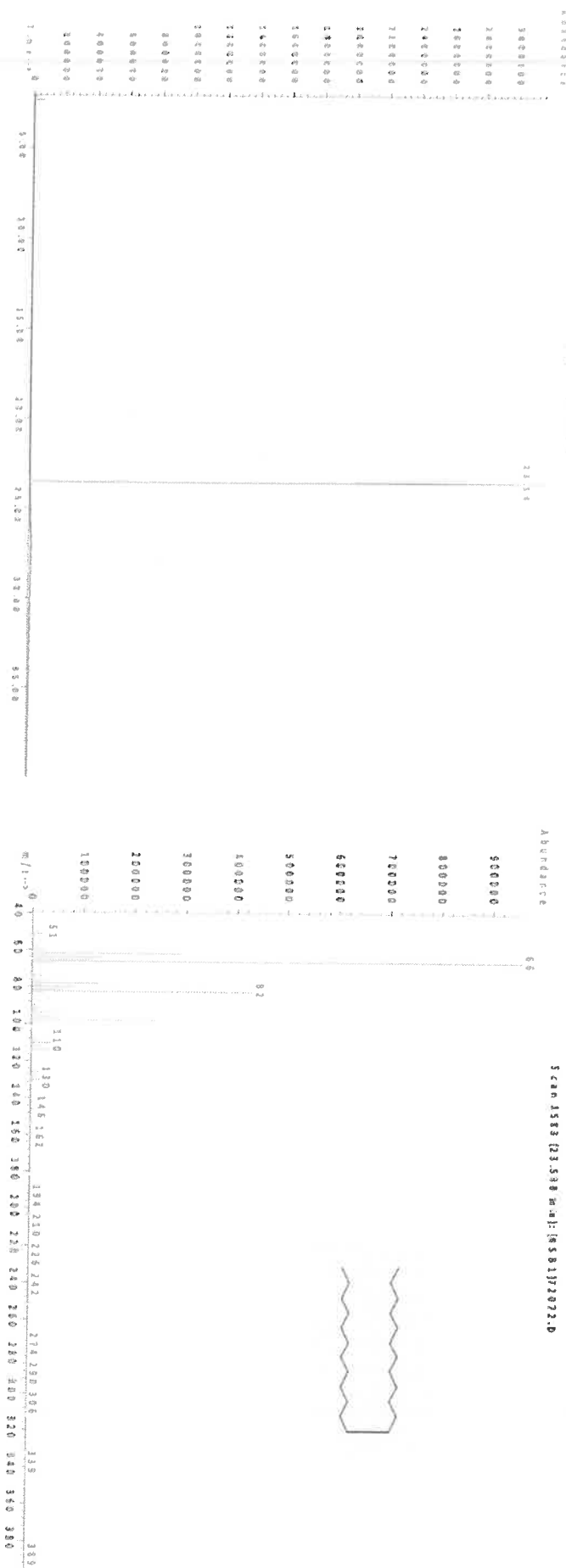
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

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

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

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



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

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070721
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#: 5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

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

070716
070716

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

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

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

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

Peak No. Name FID RT (min)

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

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

Formulator
Reviewer

Actual
Concentration

Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

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

Solvent(s):
Methylene chloride
Lot#
105345

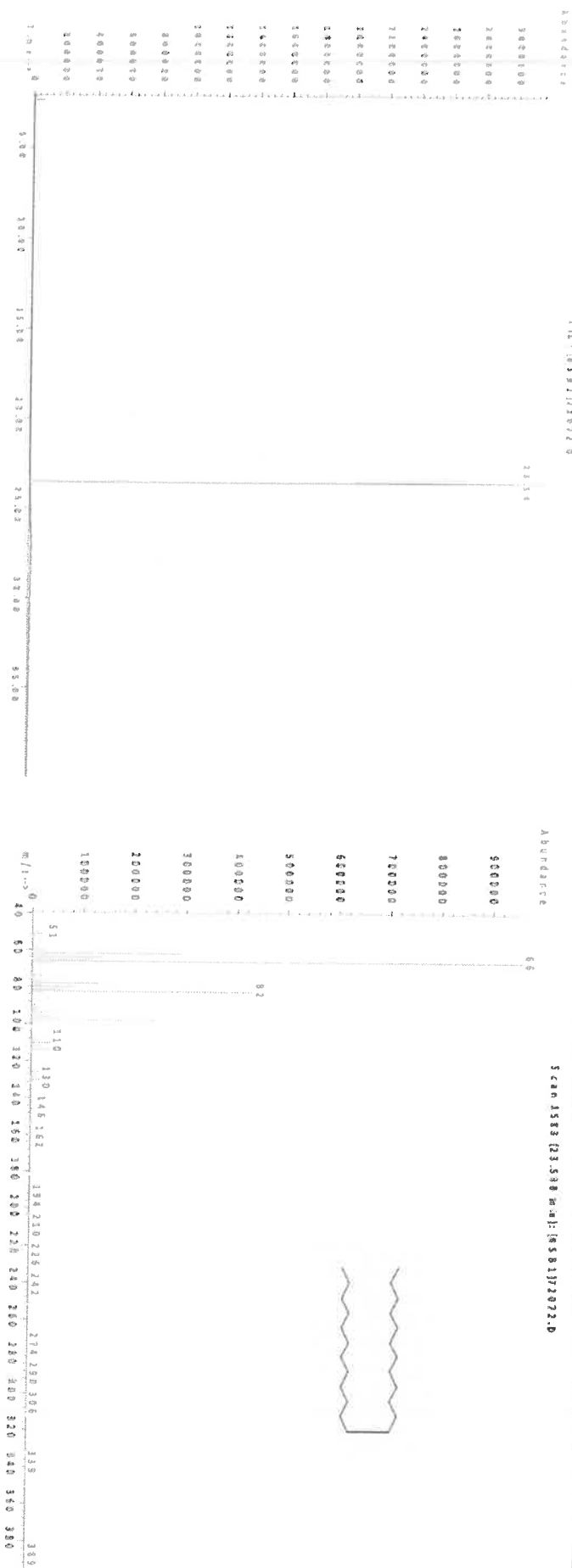
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13496
07/24/24
X.F.

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

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

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



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

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life Description: CLP Priority Pollutant Internal Standards
GC/MS Calibration - 6 components
070721
Expiration Date: Ambient (20 °C)
Recommended Storage: 4000
Nominal Concentration (µg/mL): 822-275872-11
NIST Test ID#: 5E-05 Balance Uncertainty
0.058 Mass Uncertainty

Solvent(s): Methylene chloride
Lot# 78782

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

070716
070716

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

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	CAS#	MSDS Information (Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	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	6.34
2	Naphthalene-d8	8.98
3	Acenaphthene-d10	12.97
4	Phenanthrene-d10	16.37
5	Chrysene-d12	22.62
6	Perylene-d12	25.75

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

Part # 10009R Lot # 041219 1 of 2

Formulator
Reviewer

Actual
Concentration
Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

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

Solvent(s):
Methylene chloride
Lot#
105345

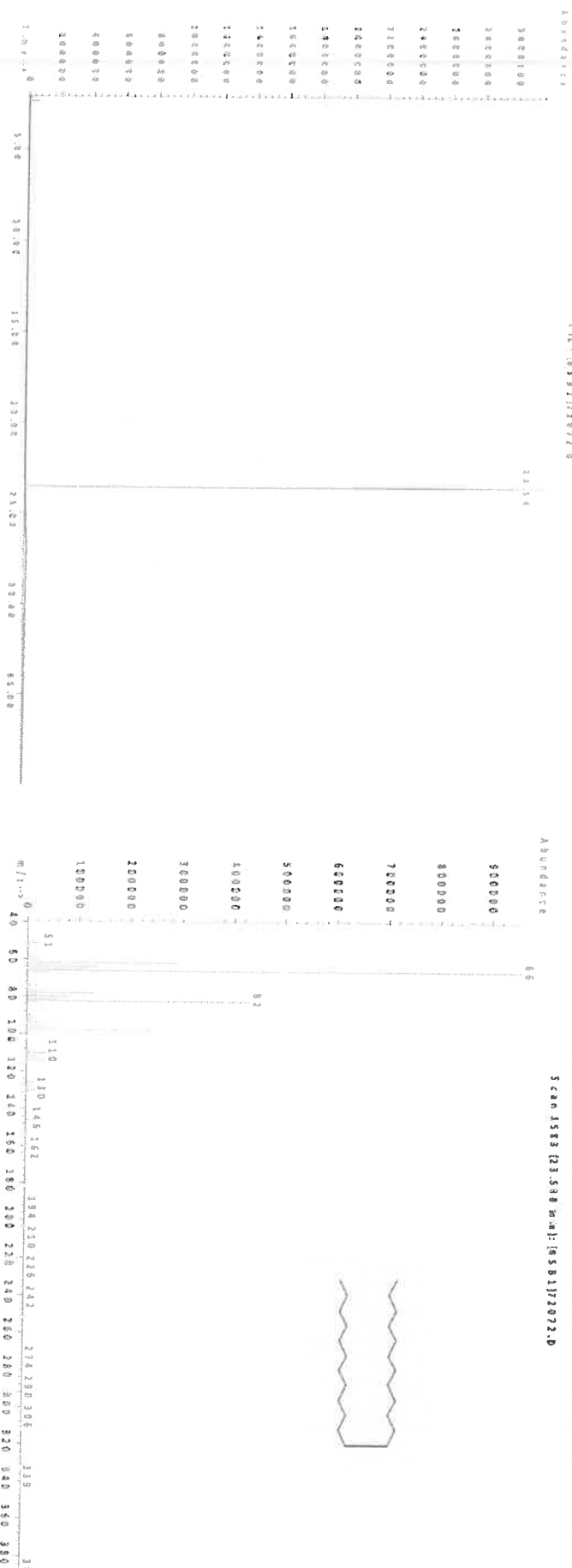
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13496
07/24/24
X.F.

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

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

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



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



SHIPPING DOCUMENTS

CHEMTECH**CHAIN OF CUSTODY RECORD**284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922

www.chemtech.net

Chemtech Project Number

COC Number

CLIENT INFORMATIONReport to be sent to:
COMPANY: _____
ADDRESS: _____
CITY: _____ STATE: _____ ZIP: _____
ATTENTION: _____
PHONE: _____ FAX: _____**PROJECT INFORMATION**PROJECT NAME: _____
PROJECT #: _____ LOCATION: _____
PROJECT MANAGER: _____
E-MAIL: _____
PHONE: _____ FAX: _____**BILLING INFORMATION**BILL TO: _____ PO#: _____
ADDRESS: _____
CITY: _____ STATE: _____ ZIP: _____
ATTENTION: _____
PHONE: _____**DATA TURNAROUND INFORMATION**FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH.
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS**DATA DELIVERABLE INFORMATION**☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ EDD FORMAT ☐ Other _____**ANALYSIS****PRESERVATIVES****COMMENTS**<- Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles
			COMP	GRAB	DATE	TIME	
1.	WASTE				1-30	7:30	1
2.	VOC				1-30	7:30	1
3.	1				1-30	7:30	1
4.	2				1-30	7:30	1
5.	3				1-30	7:30	1
6.	4				1-30	7:30	1
7.	5				1-30	7:30	1
8.					1-30	7:30	1
9.					1-30	7:30	1
10.					1-30	7:30	1

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

RELINQUISHED BY SAMPLER

1. _____

DATE/TIME 1-30-25

RECEIVED BY

RELINQUISHED BY

2. _____

DATE/TIME 1-30-25

RECEIVED BY

RELINQUISHED BY

3. _____

DATE/TIME 1-30-25

RECEIVED FOR LAB BY

Page _____ of _____

CLIENT: ☐ Hand Delivered ☐ Other: _____CHEMTECH: ☐ Picked UpShipment Complete
☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY



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 : Q1236	SCIA01	Order Date : 1/30/2025 12:48:00 PM	Project Mgr :
Client Name : Sciacca General Contractor		Project Name : 1063 Lafayette Ave, Hawth	Report Type : Results Only
Client Contact : Daniel Scirica		Receive DateTime : 1/30/2025 6:00:00 PM	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
Q1236-02	VOC	Solid	01/30/2025	07:45	VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By : 

Date / Time : 1-31-25 11:40

Received By : 

Date / Time : 1-31-25 11:40

Storage Area : VOA Refridgerator Room