

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:	Q2580	OrderDate:	7/10/2025 3:40:00 PM
Client:	ENTACT	Project:	540 Degraw St, Brooklyn, NY - E9309
Contact:	Austin Farmerie	Location:	D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2580-02	WC-URBAN-FILL-B2	SOIL	TPH GC	8015D	07/10/25	07/14/25	07/14/25	07/10/25



QC SUMMARY



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

SOIL TPH GC SURROGATE RECOVERY

Lab Name: Alliance

Client: ENTACT

Lab Code: ACE

SDG No.: Q2580

CLIENT ID	S1	S2	S3	S4	TOT
	TETRACOSANE-d50				OUT
PIBLK-FF016147.D	92				0
PIBLK-FF016152.D	102				0
PIBLK-FF016159.D	99				0
PB168834BL	95				0
PB168834BS	91				0
WC-URBAN-FILL-B2	101				0
WC-URBAN-FILL-B2MS	74				0
WC-URBAN-FILL-B2MSD	73				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:	<u>Alliance</u>	Client:	<u>ENTACT</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2580</u>
Client Sample ID :	<u>WC-URBAN-FILL-B2MS</u>	Datafile:	<u>FF016156.D</u>

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
Petroleum Hydrocarbons	11969	38500	46639	68%	*	68-131

SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>ENTACT</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2580</u>
Client Sample ID :	<u>WC-URBAN-FILL-B2MSD</u>	Datafile:	<u>FF016157.D</u>

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
Petroleum Hydrocarbons	11961	38500	46287	65%	*	68-131

MS/MSD % Recovery RPD : 4.4

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

Lab Name: Alliance

Client: ENTACT

Lab Code: ACE

SDG No: Q2580

Client Sample ID : PB168834BS

Datafile: FF016155.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
Petroleum Hydrocarbons	11330	0	9897	87	68-131

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB168834BL

Lab Name: Alliance

Contract: ENTA05

Lab Code: ACE

SDG NO.: Q2580

Lab File ID: FF016154.D

Lab Sample ID: PB168834BL

Instrument ID: FF

Date Extracted: 07/14/2025

Matrix: (soil/water) Soil

Date Analyzed: 07/14/25

Level: (low/med) low

Time Analyzed: 15:49

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
WC-URBAN-FILL-B2	Q2580-02	FF016150.D	07/14/25
PB168834BS	PB168834BS	FF016155.D	07/14/25
WC-URBAN-FILL-B2MS	Q2580-02MS	FF016156.D	07/14/25
WC-URBAN-FILL-B2MSD	Q2580-02MSD	FF016157.D	07/14/25

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	ENTACT		Date Collected:	07/10/25	
Project:	540 Degraw St, Brooklyn, NY - E9309		Date Received:	07/10/25	
Client Sample ID:	WC-URBAN-FILL-B2		SDG No.:	Q2580	
Lab Sample ID:	Q2580-02		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	94.5	Decanted:
Sample Wt/Vol:	30.07	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016150.D	1	07/14/25 09:40	07/14/25 13:49	PB168834

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	38.5		0.41	2.99	mg/Kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	20.1		37 - 130	101%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016150.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 13:49
Operator : YP\AJ
Sample : Q2580-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WC-URBAN-FILL-B2

Integration File: autoint1.e
Quant Time: Jul 14 14:17:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.095	1961811	20.147 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

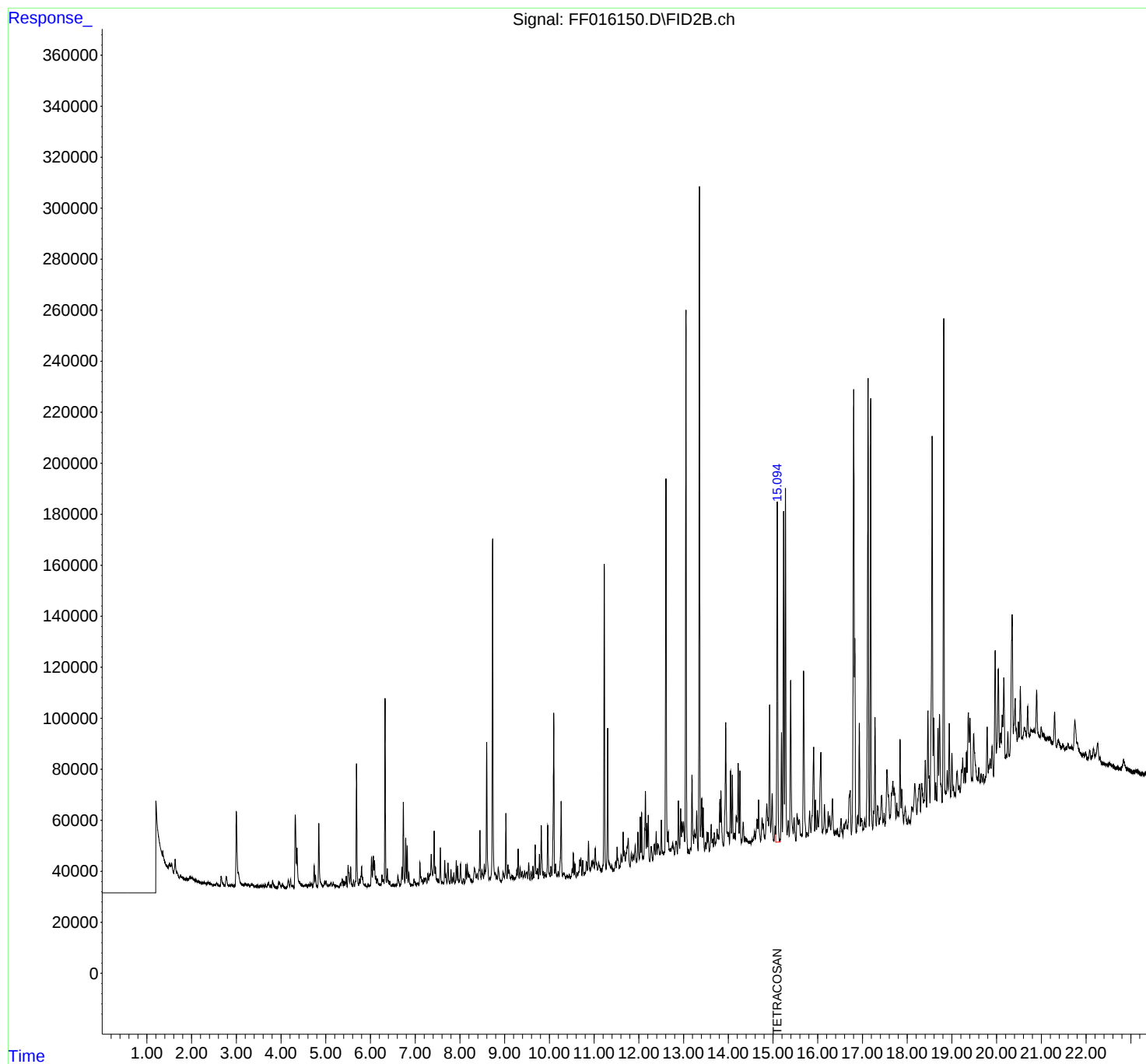
(m)=manual int.

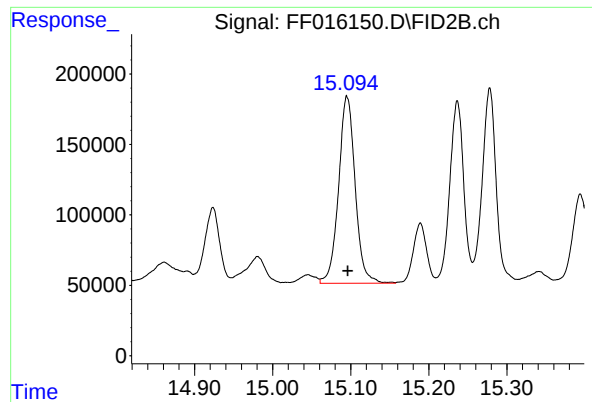
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016150.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 13:49
Operator : YP\AJ
Sample : Q2580-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WC-URBAN-FILL-B2

Integration File: autoint1.e
Quant Time: Jul 14 14:17:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 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.: 15.095 min
Delta R.T.: 0.000 min
Response: 1961811
Conc: 20.15 ug/ml

Instrument :

FID_F

ClientSampleId :

WC-URBAN-FILL-B2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016150.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 13:49
Sample : Q2580-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.856	1.835	1.896	BV	102	1324	0.04%	0.001%
2	1.910	1.896	1.931	PV	360	5705	0.19%	0.005%
3	1.960	1.931	1.980	VV	1485	29285	0.96%	0.025%
4	1.996	1.980	2.069	VV	1319	52090	1.70%	0.044%
5	2.075	2.069	2.084	VV	613	4919	0.16%	0.004%
6	2.087	2.084	2.134	VV	572	11963	0.39%	0.010%
7	2.137	2.134	2.192	VV	370	9691	0.32%	0.008%
8	2.196	2.192	2.248	VV	221	2574	0.08%	0.002%
9	2.274	2.248	2.332	PV	586	11653	0.38%	0.010%
10	2.364	2.332	2.396	VV	879	15984	0.52%	0.013%
11	2.407	2.396	2.485	VV	514	15912	0.52%	0.013%
12	2.512	2.485	2.537	PV	277	6120	0.20%	0.005%
13	2.558	2.537	2.630	VV	922	23052	0.75%	0.019%
14	2.662	2.630	2.747	PV	3943	90904	2.97%	0.077%
15	2.774	2.747	2.836	VV	3973	85960	2.81%	0.072%
16	2.857	2.836	2.880	VV	484	9070	0.30%	0.008%
17	2.892	2.880	2.945	VV	721	17016	0.56%	0.014%
18	3.000	2.945	3.039	VV	29413	533798	17.45%	0.450%
19	3.046	3.039	3.177	VV	5684	160170	5.23%	0.135%
20	3.197	3.177	3.247	VV	1267	38517	1.26%	0.032%
21	3.269	3.247	3.310	VV	958	23471	0.77%	0.020%
22	3.338	3.310	3.352	VV	1135	20485	0.67%	0.017%
23	3.364	3.352	3.420	VV	996	24896	0.81%	0.021%
24	3.428	3.420	3.454	VV	395	5595	0.18%	0.005%
25	3.473	3.454	3.504	VV	596	11018	0.36%	0.009%
26	3.507	3.504	3.511	VV	274	1085	0.04%	0.001%
27	3.532	3.511	3.536	VV	423	5112	0.17%	0.004%
28	3.551	3.536	3.572	VV	613	10703	0.35%	0.009%
29	3.604	3.572	3.630	VV	794	20102	0.66%	0.017%
30	3.648	3.630	3.674	VV	1052	16606	0.54%	0.014%
31	3.720	3.674	3.754	VV	1688	46854	1.53%	0.039%
32	3.770	3.754	3.791	VV	910	14364	0.47%	0.012%
33	3.810	3.791	3.875	VV	2839	55683	1.82%	0.047%
34	3.880	3.875	3.903	VV	220	2169	0.07%	0.002%
35	3.948	3.903	3.957	PV	2072	26379	0.86%	0.022%
36	3.967	3.957	4.004	VV	2224	38089	1.24%	0.032%

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37	4.022	4.004	4.033	VV	1202	15015	0.49%	0.013%
38	4.041	4.033	4.101	VV	1213	19301	0.63%	0.016%
39	4.162	4.101	4.193	PV	3095	60798	1.99%	0.051%
40	4.214	4.193	4.250	VV	3371	51202	1.67%	0.043%
41	4.261	4.250	4.289	VV	847	13727	0.45%	0.012%
42	4.319	4.289	4.345	VV	28606	491681	16.07%	0.414%
43	4.357	4.345	4.410	VV	15637	271009	8.86%	0.228%
44	4.414	4.410	4.470	VV	2088	53807	1.76%	0.045%
45	4.474	4.470	4.497	VV	1010	13774	0.45%	0.012%
46	4.502	4.497	4.513	VV	837	7538	0.25%	0.006%
47	4.534	4.513	4.547	VV	912	15957	0.52%	0.013%
48	4.560	4.547	4.593	VV	1124	23593	0.77%	0.020%
49	4.614	4.593	4.636	VV	1289	22644	0.74%	0.019%
50	4.653	4.636	4.668	VV	1651	20753	0.68%	0.017%
51	4.685	4.668	4.711	VV	1863	28493	0.93%	0.024%
52	4.741	4.711	4.759	VV	8718	117476	3.84%	0.099%
53	4.771	4.759	4.818	VV	4723	64690	2.11%	0.055%
54	4.844	4.818	4.940	VV	25202	384279	12.56%	0.324%
55	4.975	4.940	4.990	VV	2617	43879	1.43%	0.037%
56	5.007	4.990	5.046	VV	2569	52037	1.70%	0.044%
57	5.073	5.046	5.088	VV	1094	21316	0.70%	0.018%
58	5.119	5.088	5.145	VV	1958	42499	1.39%	0.036%
59	5.168	5.145	5.212	VV	1818	42030	1.37%	0.035%
60	5.225	5.212	5.233	VV	747	7122	0.23%	0.006%
61	5.235	5.233	5.251	VV	679	6015	0.20%	0.005%
62	5.265	5.251	5.290	VV	721	9022	0.29%	0.008%
63	5.297	5.290	5.307	PV	287	2157	0.07%	0.002%
64	5.324	5.307	5.339	VV	1441	18041	0.59%	0.015%
65	5.372	5.339	5.389	VV	3199	56428	1.84%	0.048%
66	5.406	5.389	5.423	VV	2529	30976	1.01%	0.026%
67	5.436	5.423	5.442	VV	1739	16111	0.53%	0.014%
68	5.457	5.442	5.479	VV	4390	50068	1.64%	0.042%
69	5.500	5.479	5.511	VV	8742	93132	3.04%	0.079%
70	5.516	5.511	5.535	VV	5902	57990	1.90%	0.049%
71	5.557	5.535	5.602	VV	8033	119451	3.90%	0.101%
72	5.620	5.602	5.644	VV	2684	34203	1.12%	0.029%
73	5.662	5.644	5.666	VV	2300	19910	0.65%	0.017%
74	5.688	5.666	5.737	VV	48418	560337	18.31%	0.472%
75	5.755	5.737	5.769	VV	3209	40900	1.34%	0.034%
76	5.802	5.769	5.818	VV	8123	134649	4.40%	0.113%
77	5.825	5.818	5.856	VV	3983	48654	1.59%	0.041%
78	5.861	5.856	5.876	VV	965	9261	0.30%	0.008%
79	5.886	5.876	5.926	VV	1255	16898	0.55%	0.014%
80	5.947	5.926	5.969	VV	1160	13745	0.45%	0.012%
81	5.986	5.969	5.995	VV	764	8900	0.29%	0.008%
82	6.024	5.995	6.043	VV	11689	167213	5.46%	0.141%
83	6.064	6.043	6.078	VV	12124	177792	5.81%	0.150%
84	6.090	6.078	6.110	VV	10435	132930	4.34%	0.112%
85	6.120	6.110	6.138	VV	4193	50851	1.66%	0.043%
86	6.154	6.138	6.184	VV	3009	57105	1.87%	0.048%
87	6.194	6.184	6.208	VV	1076	12502	0.41%	0.011%
88	6.221	6.208	6.235	VV	1255	15726	0.51%	0.013%
89	6.256	6.235	6.273	VV	4715	59941	1.96%	0.051%

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90	6.288	6.273	6.303	VV	2860	41736	1.36%	0.035%
91	6.325	6.303	6.356	VV	73953	756000	24.71%	0.637%
92	6.375	6.356	6.419	VV	7065	119815	3.92%	0.101%
93	6.430	6.419	6.459	VV	2227	29719	0.97%	0.025%
94	6.473	6.459	6.487	VV	743	8558	0.28%	0.007%
95	6.501	6.487	6.512	VV	944	9899	0.32%	0.008%
96	6.523	6.512	6.540	VV	761	7965	0.26%	0.007%
97	6.554	6.540	6.565	PV	820	8696	0.28%	0.007%
98	6.577	6.565	6.589	VV	744	9363	0.31%	0.008%
99	6.612	6.589	6.658	VV	4392	79605	2.60%	0.067%
100	6.701	6.658	6.715	VV	7382	99724	3.26%	0.084%
101	6.734	6.715	6.768	VV	33028	377842	12.35%	0.318%
102	6.788	6.768	6.805	VV	18967	201638	6.59%	0.170%
103	6.821	6.805	6.840	VV	15839	168659	5.51%	0.142%
104	6.857	6.840	6.902	VV	5326	75387	2.46%	0.064%
105	6.941	6.902	6.952	VV	486	9528	0.31%	0.008%
106	6.971	6.952	7.005	VV	2614	42858	1.40%	0.036%
107	7.013	7.005	7.029	VV	1097	9294	0.30%	0.008%
108	7.049	7.029	7.063	VV	825	13503	0.44%	0.011%
109	7.070	7.063	7.082	VV	758	6638	0.22%	0.006%
110	7.105	7.082	7.148	VV	9037	145759	4.76%	0.123%
111	7.160	7.148	7.180	VV	2288	30352	0.99%	0.026%
112	7.199	7.180	7.212	VV	2623	36226	1.18%	0.031%
113	7.230	7.212	7.263	VV	2834	63844	2.09%	0.054%
114	7.280	7.263	7.300	VV	4602	66334	2.17%	0.056%
115	7.322	7.300	7.325	VV	4002	49410	1.61%	0.042%
116	7.329	7.325	7.335	VV	3954	23022	0.75%	0.019%
117	7.357	7.335	7.390	VV	12083	226212	7.39%	0.191%
118	7.424	7.390	7.441	VV	21161	291021	9.51%	0.245%
119	7.453	7.441	7.479	VV	6914	97961	3.20%	0.083%
120	7.487	7.479	7.503	VV	2093	26511	0.87%	0.022%
121	7.514	7.503	7.530	VV	1685	20765	0.68%	0.018%
122	7.562	7.530	7.590	VV	14504	172969	5.65%	0.146%
123	7.602	7.590	7.619	VV	1274	15130	0.49%	0.013%
124	7.632	7.619	7.640	VV	762	7589	0.25%	0.006%
125	7.660	7.640	7.675	VV	9510	101858	3.33%	0.086%
126	7.685	7.675	7.709	VV	3746	42994	1.41%	0.036%
127	7.733	7.709	7.765	VV	8382	115883	3.79%	0.098%
128	7.773	7.765	7.780	VV	638	5220	0.17%	0.004%
129	7.799	7.780	7.821	VV	5686	64795	2.12%	0.055%
130	7.835	7.821	7.848	VV	2475	25286	0.83%	0.021%
131	7.863	7.848	7.882	VV	4295	46362	1.52%	0.039%
132	7.918	7.882	7.935	VV	9133	106030	3.47%	0.089%
133	7.951	7.935	7.970	VV	7033	75343	2.46%	0.064%
134	7.982	7.970	7.991	VV	1160	11793	0.39%	0.010%
135	8.013	7.991	8.053	VV	7755	111729	3.65%	0.094%
136	8.078	8.053	8.094	VV	1892	22615	0.74%	0.019%
137	8.105	8.094	8.112	VV	431	3221	0.11%	0.003%
138	8.131	8.112	8.147	VV	7623	81319	2.66%	0.069%
139	8.165	8.147	8.183	VV	7363	94768	3.10%	0.080%
140	8.194	8.183	8.208	VV	3821	46115	1.51%	0.039%
141	8.217	8.208	8.234	VV	3341	38157	1.25%	0.032%

					rteres			
142	8.240	8.234	8.256	VV	1707	16167	0.53%	0.014%
143	8.270	8.256	8.288	VV	830	12163	0.40%	0.010%
144	8.325	8.288	8.365	VV	5576	153039	5.00%	0.129%
145	8.384	8.365	8.405	VV	3638	62923	2.06%	0.053%
146	8.424	8.405	8.430	VV	5016	50620	1.65%	0.043%
147	8.447	8.430	8.474	VV	20584	248929	8.14%	0.210%
148	8.493	8.474	8.528	VV	5073	102410	3.35%	0.086%
149	8.546	8.528	8.559	VV	7283	86512	2.83%	0.073%
150	8.571	8.559	8.578	VV	4649	47704	1.56%	0.040%
151	8.598	8.578	8.649	VV	54679	711310	23.25%	0.600%
152	8.666	8.649	8.683	VV	1741	28783	0.94%	0.024%
153	8.731	8.683	8.780	VV	134555	1595358	52.14%	1.345%
154	8.790	8.780	8.809	VV	3524	49550	1.62%	0.042%
155	8.823	8.809	8.840	VV	2330	31149	1.02%	0.026%
156	8.856	8.840	8.922	VV	5643	108068	3.53%	0.091%
157	8.964	8.922	8.993	PV	3684	76446	2.50%	0.064%
158	9.028	8.993	9.054	VV	26810	317303	10.37%	0.267%
159	9.074	9.054	9.090	VV	6561	88886	2.90%	0.075%
160	9.102	9.090	9.132	VV	4376	66283	2.17%	0.056%
161	9.162	9.132	9.180	VV	2388	47268	1.54%	0.040%
162	9.193	9.180	9.216	VV	1960	26990	0.88%	0.023%
163	9.230	9.216	9.238	VV	1369	14056	0.46%	0.012%
164	9.270	9.238	9.284	VV	4310	65429	2.14%	0.055%
165	9.302	9.284	9.325	VV	12549	149079	4.87%	0.126%
166	9.346	9.325	9.371	VV	5218	79350	2.59%	0.067%
167	9.392	9.371	9.414	VV	3501	63208	2.07%	0.053%
168	9.445	9.414	9.464	VV	3687	67251	2.20%	0.057%
169	9.483	9.464	9.489	VV	3083	34238	1.12%	0.029%
170	9.499	9.489	9.514	VV	3417	35537	1.16%	0.030%
171	9.538	9.514	9.568	VV	6872	95246	3.11%	0.080%
172	9.590	9.568	9.614	VV	3272	46466	1.52%	0.039%
173	9.630	9.614	9.649	VV	5369	57717	1.89%	0.049%
174	9.682	9.649	9.703	VV	13849	195920	6.40%	0.165%
175	9.735	9.703	9.757	VV	4415	90259	2.95%	0.076%
176	9.777	9.757	9.796	VV	9993	112245	3.67%	0.095%
177	9.818	9.796	9.851	VV	21224	304832	9.96%	0.257%
178	9.862	9.851	9.879	VV	3072	33786	1.10%	0.028%
179	9.898	9.879	9.912	VV	2754	35340	1.15%	0.030%
180	9.918	9.912	9.929	VV	1563	13488	0.44%	0.011%
181	9.963	9.929	9.991	VV	21166	314068	10.26%	0.265%
182	9.998	9.991	10.014	VV	2428	26172	0.86%	0.022%
183	10.033	10.014	10.055	VV	4977	74945	2.45%	0.063%
184	10.097	10.055	10.119	VV	65125	871579	28.48%	0.735%
185	10.137	10.119	10.175	VV	5822	106985	3.50%	0.090%
186	10.197	10.175	10.213	VV	2667	38206	1.25%	0.032%
187	10.262	10.213	10.292	VV	30159	442095	14.45%	0.373%
188	10.308	10.292	10.312	VV	1651	17069	0.56%	0.014%
189	10.319	10.312	10.323	VV	1693	11170	0.37%	0.009%
190	10.331	10.323	10.364	VV	1852	24888	0.81%	0.021%
191	10.402	10.364	10.428	VV	852	19051	0.62%	0.016%
192	10.444	10.428	10.464	VV	1552	15455	0.51%	0.013%
193	10.480	10.464	10.489	PV	641	5059	0.17%	0.004%
194	10.507	10.489	10.517	VV	3435	36042	1.18%	0.030%

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195	10.534	10.517	10.554	VV	9606	108680	3.55%	0.092%
196	10.571	10.554	10.599	VV	5283	64026	2.09%	0.054%
197	10.620	10.599	10.636	PV	1612	20990	0.69%	0.018%
198	10.654	10.636	10.658	VV	1904	18124	0.59%	0.015%
199	10.677	10.658	10.690	VV	6659	86283	2.82%	0.073%
200	10.703	10.690	10.727	VV	7289	92736	3.03%	0.078%
201	10.744	10.727	10.781	VV	6246	81783	2.67%	0.069%
202	10.796	10.781	10.805	VV	1192	12676	0.41%	0.011%
203	10.827	10.805	10.851	VV	5283	95663	3.13%	0.081%
204	10.874	10.851	10.897	VV	13291	192548	6.29%	0.162%
205	10.902	10.897	10.915	VV	2840	27581	0.90%	0.023%
206	10.944	10.915	10.958	VV	5332	89066	2.91%	0.075%
207	10.972	10.958	10.987	VV	5425	82271	2.69%	0.069%
208	10.990	10.987	11.004	VV	4894	40560	1.33%	0.034%
209	11.024	11.004	11.045	VV	10173	163833	5.35%	0.138%
210	11.054	11.045	11.081	VV	4387	63930	2.09%	0.054%
211	11.101	11.081	11.117	VV	4406	66448	2.17%	0.056%
212	11.123	11.117	11.139	VV	3064	31300	1.02%	0.026%
213	11.149	11.139	11.177	VV	1835	29879	0.98%	0.025%
214	11.227	11.177	11.269	VV	121029	1432102	46.80%	1.207%
215	11.303	11.269	11.340	VV	56538	699154	22.85%	0.589%
216	11.349	11.340	11.376	VV	3331	51886	1.70%	0.044%
217	11.393	11.376	11.417	VV	2666	45180	1.48%	0.038%
218	11.431	11.417	11.444	VV	575	7596	0.25%	0.006%
219	11.482	11.444	11.497	VV	3812	68738	2.25%	0.058%
220	11.514	11.497	11.529	VV	9469	109057	3.56%	0.092%
221	11.535	11.529	11.565	VV	4463	64236	2.10%	0.054%
222	11.603	11.565	11.626	VV	6116	120708	3.94%	0.102%
223	11.649	11.626	11.666	VV	14990	204567	6.69%	0.172%
224	11.677	11.666	11.699	VV	7272	109056	3.56%	0.092%
225	11.762	11.699	11.804	VV	11990	409123	13.37%	0.345%
226	11.831	11.804	11.854	VV	6229	114750	3.75%	0.097%
227	11.870	11.854	11.889	VV	5522	92193	3.01%	0.078%
228	11.919	11.889	11.952	VV	8980	196043	6.41%	0.165%
229	11.980	11.952	12.012	VV	14067	252738	8.26%	0.213%
230	12.032	12.012	12.047	VV	19830	239097	7.81%	0.202%
231	12.063	12.047	12.084	VV	21446	258394	8.44%	0.218%
232	12.092	12.084	12.104	VV	4163	46448	1.52%	0.039%
233	12.148	12.104	12.165	VV	29555	512389	16.75%	0.432%
234	12.180	12.165	12.195	VV	16880	212267	6.94%	0.179%
235	12.211	12.195	12.244	VV	20086	277788	9.08%	0.234%
236	12.276	12.244	12.308	VV	7558	172096	5.62%	0.145%
237	12.345	12.308	12.367	VV	8131	188040	6.15%	0.159%
238	12.388	12.367	12.407	VV	13154	189064	6.18%	0.159%
239	12.423	12.407	12.432	VV	8394	104812	3.43%	0.088%
240	12.438	12.432	12.471	VV	7617	133041	4.35%	0.112%
241	12.475	12.471	12.482	VV	4420	28125	0.92%	0.024%
242	12.504	12.482	12.524	VV	17287	241291	7.89%	0.203%
243	12.533	12.524	12.542	VV	4685	48292	1.58%	0.041%
244	12.567	12.542	12.573	VV	4745	80838	2.64%	0.068%
245	12.608	12.573	12.642	VV	151008	2093046	68.40%	1.764%
246	12.658	12.642	12.697	VV	12292	255459	8.35%	0.215%

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247	12.709	12.697	12.719	VV	5438	67461	2.20%	0.057%
248	12.740	12.719	12.744	VV	6118	82199	2.69%	0.069%
249	12.757	12.744	12.772	VV	7882	117538	3.84%	0.099%
250	12.777	12.772	12.802	VV	6090	81811	2.67%	0.069%
251	12.826	12.802	12.836	VV	8043	119795	3.92%	0.101%
252	12.841	12.836	12.862	VV	7912	96613	3.16%	0.081%
253	12.885	12.862	12.913	VV	23902	361346	11.81%	0.305%
254	12.936	12.913	12.952	VV	20658	301457	9.85%	0.254%
255	12.966	12.952	12.982	VV	15521	231588	7.57%	0.195%
256	12.999	12.982	13.026	VV	15301	313044	10.23%	0.264%
257	13.054	13.026	13.097	VV	216012	2557429	83.58%	2.156%
258	13.111	13.097	13.132	VV	4101	70159	2.29%	0.059%
259	13.152	13.132	13.165	VV	4712	74202	2.43%	0.063%
260	13.189	13.165	13.225	VV	33163	533846	17.45%	0.450%
261	13.240	13.225	13.251	VV	11383	140769	4.60%	0.119%
262	13.263	13.251	13.275	VV	9639	135068	4.41%	0.114%
263	13.294	13.275	13.326	VV	18881	312339	10.21%	0.263%
264	13.356	13.326	13.378	VV	263610	3059789	100.00%	2.579%
265	13.407	13.378	13.424	VV	23364	414204	13.54%	0.349%
266	13.439	13.424	13.467	VV	19668	282325	9.23%	0.238%
267	13.490	13.467	13.505	VV	5895	98310	3.21%	0.083%
268	13.523	13.505	13.537	VV	9951	133910	4.38%	0.113%
269	13.551	13.537	13.576	VV	9730	141944	4.64%	0.120%
270	13.618	13.576	13.637	VV	12830	248332	8.12%	0.209%
271	13.651	13.637	13.667	VV	6764	104041	3.40%	0.088%
272	13.686	13.667	13.709	VV	9310	163526	5.34%	0.138%
273	13.750	13.709	13.764	VV	10546	236607	7.73%	0.199%
274	13.774	13.764	13.790	VV	8057	111933	3.66%	0.094%
275	13.811	13.790	13.824	VV	22036	316184	10.33%	0.267%
276	13.835	13.824	13.884	VV	25144	449921	14.70%	0.379%
277	13.889	13.884	13.894	VV	3742	21874	0.71%	0.018%
278	13.941	13.894	13.970	VV	51725	976652	31.92%	0.823%
279	13.978	13.970	13.992	VV	8977	107924	3.53%	0.091%
280	14.006	13.992	14.026	VV	8201	138475	4.53%	0.117%
281	14.051	14.026	14.071	VV	32430	470922	15.39%	0.397%
282	14.090	14.071	14.120	VV	30412	441433	14.43%	0.372%
283	14.136	14.120	14.154	VV	7810	142749	4.67%	0.120%
284	14.177	14.154	14.188	VV	14604	225684	7.38%	0.190%
285	14.192	14.188	14.202	VV	13257	114931	3.76%	0.097%
286	14.220	14.202	14.240	VV	34944	470486	15.38%	0.397%
287	14.261	14.240	14.294	VV	32053	461281	15.08%	0.389%
288	14.300	14.294	14.304	VV	3912	22897	0.75%	0.019%
289	14.333	14.304	14.356	VV	11678	234365	7.66%	0.198%
290	14.371	14.356	14.386	VV	5952	88110	2.88%	0.074%
291	14.400	14.386	14.414	VV	5294	78361	2.56%	0.066%
292	14.424	14.414	14.438	VV	4237	56365	1.84%	0.048%
293	14.449	14.438	14.464	VV	3882	56628	1.85%	0.048%
294	14.481	14.464	14.510	VV	3548	89039	2.91%	0.075%
295	14.533	14.510	14.546	VV	4484	82008	2.68%	0.069%
296	14.586	14.546	14.603	VV	7482	181538	5.93%	0.153%
297	14.645	14.603	14.660	VV	11875	291094	9.51%	0.245%
298	14.677	14.660	14.721	VV	19457	355366	11.61%	0.300%
299	14.756	14.721	14.771	VV	12259	244430	7.99%	0.206%

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300	14.783	14.771	14.811	VV	9751	169760	5.55%	0.143%
301	14.861	14.811	14.886	VV	17495	467402	15.28%	0.394%
302	14.890	14.886	14.899	VV	11095	79914	2.61%	0.067%
303	14.924	14.899	14.947	VV	56167	789405	25.80%	0.665%
304	14.981	14.947	15.014	VV	21164	427130	13.96%	0.360%
305	15.017	15.014	15.022	VV	2746	13435	0.44%	0.011%
306	15.045	15.022	15.061	VV	8155	131782	4.31%	0.111%
307	15.095	15.061	15.147	VV	133963	2052536	67.08%	1.730%
308	15.152	15.147	15.157	VV	2429	13602	0.44%	0.011%
309	15.189	15.157	15.209	VV	44506	558191	18.24%	0.471%
310	15.237	15.209	15.256	VV	131291	1656180	54.13%	1.396%
311	15.278	15.256	15.314	VV	140222	1770676	57.87%	1.493%
312	15.341	15.314	15.361	VV	9584	181468	5.93%	0.153%
313	15.394	15.361	15.451	VV	64511	1107200	36.19%	0.933%
314	15.470	15.451	15.511	VV	10343	203996	6.67%	0.172%
315	15.537	15.511	15.566	VV	11903	252195	8.24%	0.213%
316	15.591	15.566	15.624	VV	9384	224919	7.35%	0.190%
317	15.628	15.624	15.632	VV	3308	15596	0.51%	0.013%
318	15.641	15.632	15.652	VV	3379	36116	1.18%	0.030%
319	15.683	15.652	15.740	VV	67238	1223660	39.99%	1.031%
320	15.760	15.740	15.786	VV	3840	81304	2.66%	0.069%
321	15.819	15.786	15.849	VV	12140	255159	8.34%	0.215%
322	15.909	15.849	15.932	VV	36957	830798	27.15%	0.700%
323	15.949	15.932	15.976	VV	16159	228256	7.46%	0.192%
324	15.994	15.976	16.014	VV	11873	185135	6.05%	0.156%
325	16.070	16.014	16.111	VV	34314	905491	29.59%	0.763%
326	16.150	16.111	16.183	VV	13831	292121	9.55%	0.246%
327	16.190	16.183	16.192	VV	3210	15307	0.50%	0.013%
328	16.203	16.192	16.216	VV	3805	48002	1.57%	0.040%
329	16.233	16.216	16.250	VV	10760	140011	4.58%	0.118%
330	16.267	16.250	16.291	VV	8992	159431	5.21%	0.134%
331	16.330	16.291	16.371	VV	15458	349962	11.44%	0.295%
332	16.391	16.371	16.400	VV	2255	31420	1.03%	0.026%
333	16.412	16.400	16.422	VV	2571	28534	0.93%	0.024%
334	16.439	16.422	16.460	VV	3603	52753	1.72%	0.044%
335	16.466	16.460	16.481	VV	947	7826	0.26%	0.007%
336	16.523	16.481	16.541	VV	7326	133341	4.36%	0.112%
337	16.550	16.541	16.564	VV	2728	24806	0.81%	0.021%
338	16.585	16.564	16.600	PV	4540	65552	2.14%	0.055%
339	16.634	16.600	16.654	VV	5890	148739	4.86%	0.125%
340	16.661	16.654	16.666	VV	3341	22649	0.74%	0.019%
341	16.706	16.666	16.712	VV	15880	250492	8.19%	0.211%
342	16.726	16.712	16.752	VV	17684	254183	8.31%	0.214%
343	16.804	16.752	16.821	VV	174516	2635625	86.14%	2.222%
344	16.830	16.821	16.856	VV	76846	782701	25.58%	0.660%
345	16.861	16.856	16.866	VV	937	5461	0.18%	0.005%
346	16.891	16.866	16.906	VV	7132	113463	3.71%	0.096%
347	16.930	16.906	16.953	VV	43183	554555	18.12%	0.467%
348	16.969	16.953	16.984	VV	6007	89033	2.91%	0.075%
349	16.988	16.984	17.011	VV	4927	52755	1.72%	0.044%
350	17.051	17.011	17.070	VV	5329	100208	3.28%	0.084%
351	17.126	17.070	17.152	VV	177657	2665761	87.12%	2.247%

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352	17.184	17.152	17.228	VV	169022	2108132	68.90%	1.777%
353	17.252	17.228	17.259	VV	7950	90125	2.95%	0.076%
354	17.280	17.259	17.307	VV	44197	589593	19.27%	0.497%
355	17.341	17.307	17.374	VV	9471	230650	7.54%	0.194%
356	17.426	17.374	17.462	VV	13173	364139	11.90%	0.307%
357	17.484	17.462	17.502	VV	6138	84605	2.77%	0.071%
358	17.546	17.502	17.577	VV	22936	571621	18.68%	0.482%
359	17.580	17.577	17.611	VV	13140	168460	5.51%	0.142%
360	17.619	17.611	17.625	VV	4776	36588	1.20%	0.031%
361	17.649	17.625	17.656	VV	13453	180883	5.91%	0.152%
362	17.680	17.656	17.696	VV	18052	356603	11.65%	0.301%
363	17.706	17.696	17.748	VV	15106	344017	11.24%	0.290%
364	17.767	17.748	17.785	VV	9152	139924	4.57%	0.118%
365	17.799	17.785	17.814	VV	5772	84605	2.77%	0.071%
366	17.840	17.814	17.864	VV	33855	495204	16.18%	0.417%
367	17.879	17.864	17.920	VV	14128	251824	8.23%	0.212%
368	17.954	17.920	17.999	VV	6842	164457	5.37%	0.139%
369	18.024	17.999	18.044	PV	2527	30277	0.99%	0.026%
370	18.056	18.044	18.074	VV	1272	12968	0.42%	0.011%
371	18.102	18.074	18.108	VV	6238	76961	2.52%	0.065%
372	18.112	18.108	18.130	VV	6011	69862	2.28%	0.059%
373	18.168	18.130	18.215	VV	14949	460212	15.04%	0.388%
374	18.276	18.215	18.297	VV	14325	449694	14.70%	0.379%
375	18.325	18.297	18.364	VV	14434	399113	13.04%	0.336%
376	18.405	18.364	18.432	VV	23045	479676	15.68%	0.404%
377	18.463	18.432	18.483	VV	42024	683452	22.34%	0.576%
378	18.488	18.483	18.509	VV	16360	189737	6.20%	0.160%
379	18.558	18.509	18.579	VV	149246	2617127	85.53%	2.206%
380	18.594	18.579	18.622	VV	38585	650573	21.26%	0.548%
381	18.636	18.622	18.660	VV	13077	214574	7.01%	0.181%
382	18.687	18.660	18.703	VV	33974	501469	16.39%	0.423%
383	18.723	18.703	18.781	VV	39278	885493	28.94%	0.746%
384	18.818	18.781	18.845	VV	194066	2699940	88.24%	2.276%
385	18.849	18.845	18.866	VV	8353	101568	3.32%	0.086%
386	18.895	18.866	18.914	VV	16368	328156	10.72%	0.277%
387	18.941	18.914	18.972	VV	34671	591715	19.34%	0.499%
388	19.000	18.972	19.024	VV	22700	417514	13.65%	0.352%
389	19.038	19.024	19.051	VV	9213	130440	4.26%	0.110%
390	19.065	19.051	19.080	VV	6764	108146	3.53%	0.091%
391	19.117	19.080	19.147	VV	14914	433559	14.17%	0.365%
392	19.169	19.147	19.185	VV	8754	179073	5.85%	0.151%
393	19.218	19.185	19.225	VV	15292	270200	8.83%	0.228%
394	19.241	19.225	19.262	VV	19501	338268	11.06%	0.285%
395	19.286	19.262	19.306	VV	15548	322630	10.54%	0.272%
396	19.323	19.306	19.341	VV	21316	336690	11.00%	0.284%
397	19.368	19.341	19.387	VV	36420	775933	25.36%	0.654%
398	19.404	19.387	19.437	VV	34268	714826	23.36%	0.603%
399	19.448	19.437	19.461	VV	10404	139885	4.57%	0.118%
400	19.485	19.461	19.557	VV	27619	999934	32.68%	0.843%
401	19.564	19.557	19.582	VV	10229	139925	4.57%	0.118%
402	19.601	19.582	19.630	VV	13863	310606	10.15%	0.262%
403	19.652	19.630	19.679	VV	10957	274274	8.96%	0.231%
404	19.698	19.679	19.719	VV	10782	218510	7.14%	0.184%

						rters		
405	19.789	19.719	19.811	VV	28821	772428	25.24%	0.651%
406	19.827	19.811	19.837	VV	13595	198593	6.49%	0.167%
407	19.855	19.837	19.875	VV	15817	318496	10.41%	0.268%
408	19.899	19.875	19.932	VV	20818	519560	16.98%	0.438%
409	19.968	19.932	19.994	VV	57913	1182610	38.65%	0.997%
410	20.037	19.994	20.064	VV	50160	1291379	42.20%	1.089%
411	20.086	20.064	20.104	VV	24892	533058	17.42%	0.449%
412	20.125	20.104	20.139	VV	31815	573487	18.74%	0.483%
413	20.161	20.139	20.199	VV	46265	1068413	34.92%	0.901%
414	20.213	20.199	20.228	VV	15369	263185	8.60%	0.222%
415	20.252	20.228	20.280	VV	24554	593306	19.39%	0.500%
416	20.347	20.280	20.374	VV	69710	2106081	68.83%	1.775%
417	20.415	20.374	20.458	VV	36869	1371931	44.84%	1.156%
418	20.487	20.458	20.505	VV	27187	657080	21.47%	0.554%
419	20.530	20.505	20.563	VV	40869	997184	32.59%	0.841%
420	20.570	20.563	20.581	VV	20629	212221	6.94%	0.179%
421	20.621	20.581	20.661	VV	24369	1078108	35.23%	0.909%
422	20.694	20.661	20.735	VV	32284	1078149	35.24%	0.909%
423	20.764	20.735	20.792	VV	22854	746997	24.41%	0.630%
424	20.800	20.792	20.819	VV	22134	352406	11.52%	0.297%
425	20.832	20.819	20.861	VV	22395	546559	17.86%	0.461%
426	20.894	20.861	20.955	VV	37290	1403256	45.86%	1.183%
427	20.959	20.955	20.963	VV	19095	90765	2.97%	0.077%
428	20.967	20.963	20.972	VV	19067	111499	3.64%	0.094%
429	20.996	20.972	21.028	VV	22572	682858	22.32%	0.576%
430	21.045	21.028	21.087	VV	19917	667536	21.82%	0.563%
431	21.103	21.087	21.121	VV	17715	347447	11.36%	0.293%
432	21.141	21.121	21.167	VV	17789	482163	15.76%	0.406%
433	21.190	21.167	21.255	VV	17572	850461	27.79%	0.717%
434	21.296	21.255	21.340	VV	26865	928723	30.35%	0.783%
435	21.373	21.340	21.446	VV	15269	873723	28.55%	0.736%
436	21.484	21.446	21.531	VV	13207	607423	19.85%	0.512%
437	21.536	21.531	21.542	VV	11113	77056	2.52%	0.065%
438	21.551	21.542	21.564	VV	11228	141795	4.63%	0.120%
439	21.597	21.564	21.627	VV	12956	443175	14.48%	0.374%
440	21.636	21.627	21.657	VV	11249	201423	6.58%	0.170%
441	21.677	21.657	21.710	VV	11484	338487	11.06%	0.285%
442	21.749	21.710	21.793	VV	21117	793833	25.94%	0.669%
443	21.803	21.793	21.917	VV	12321	658392	21.52%	0.555%
444	21.938	21.917	21.964	VV	7224	188368	6.16%	0.159%
445	21.990	21.964	22.031	VV	7425	245395	8.02%	0.207%
446	22.078	22.031	22.127	VV	7755	322042	10.52%	0.271%
447	22.164	22.127	22.196	VV	8063	251419	8.22%	0.212%
448	22.260	22.196	22.305	VV	9421	402399	13.15%	0.339%
449	22.310	22.305	22.351	VV	3661	64875	2.12%	0.055%
450	22.362	22.351	22.392	VV	1291	24835	0.81%	0.021%
451	22.406	22.392	22.411	VV	743	7128	0.23%	0.006%
452	22.419	22.411	22.440	VV	679	8230	0.27%	0.007%
					Sum of corrected areas:		118633602	



CALIBRATION SUMMARY

TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Alliance

Contract: ENTA05

ProjectID: 540 Degraw St, Brooklyn, NY - E9309

Lab Code: ACE

SDG No.: Q2580

Calibration Sequence : FF071025		Test : TPH GC	
Concentration (PPM)	Area Count	Reference Factor	File ID
1700	164684190	96873	FF016130.D
850	89059595	104776	FF016131.D
340	36559731	107529	FF016132.D
170	19906477	117097	FF016133.D
85	9088990	106929	FF016134.D
AVG RF : 106641		% RSD : 6.78	AVG RT : 15.1002

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: ENTA05
ProjectID: 540 Degraw St, Brooklyn, NY - E9309
Lab Code: ACE SDG No.: Q2580
DataFile: FF016148.D Analyst Name: YP\AJ Analyst Date: 07-14-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	102392728	120462	106641	12.96

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
 Data File : FF016148.D
 Signal(s) : FID2B.ch
 Acq On : 14 Jul 2025 12:49
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Jul 14 14:17:02 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
 Quant Title :
 QLast Update : Thu Jul 10 12:51:11 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.096	5512614	56.612 ug/ml
Target Compounds			
1) N-OCTANE	2.069	6885979	55.205 ug/ml
2) N-DECANE	4.613	7144736	57.409 ug/ml
3) N-DODECANE	6.790	7051131	57.865 ug/ml
4) N-TETRADECANE	8.625	6838059	56.879 ug/ml
5) N-HEXADECANE	10.235	6658359	57.240 ug/ml
6) N-OCTADECANE	11.681	6610096	56.882 ug/ml
7) N-EICOSANE	12.995	6501388	55.590 ug/ml
8) N-DOCOSANE	14.196	6244141	55.689 ug/ml
10) N-TETRACOSANE	15.302	6191797	55.827 ug/ml
11) N-HEXACOSANE	16.327	6108685	56.890 ug/ml
12) N-OCTACOSANE	17.279	6027563	56.053 ug/ml
13) N-TRIACONTANE	18.171	6094487	56.268 ug/ml
14) N-DOTRIACONTANE	19.006	5917966	56.435 ug/ml
15) N-TETRATRIACONTANE	19.792	5329607	55.552 ug/ml
16) N-HEXATRIACONTANE	20.533	4588447	55.002 ug/ml
17) N-OCTATRIACONTANE	21.300	4195378	56.967 ug/ml
18) N-TETRACONTANE	22.262	4004909	58.880 ug/ml

(f)=RT Delta > 1/2 Window

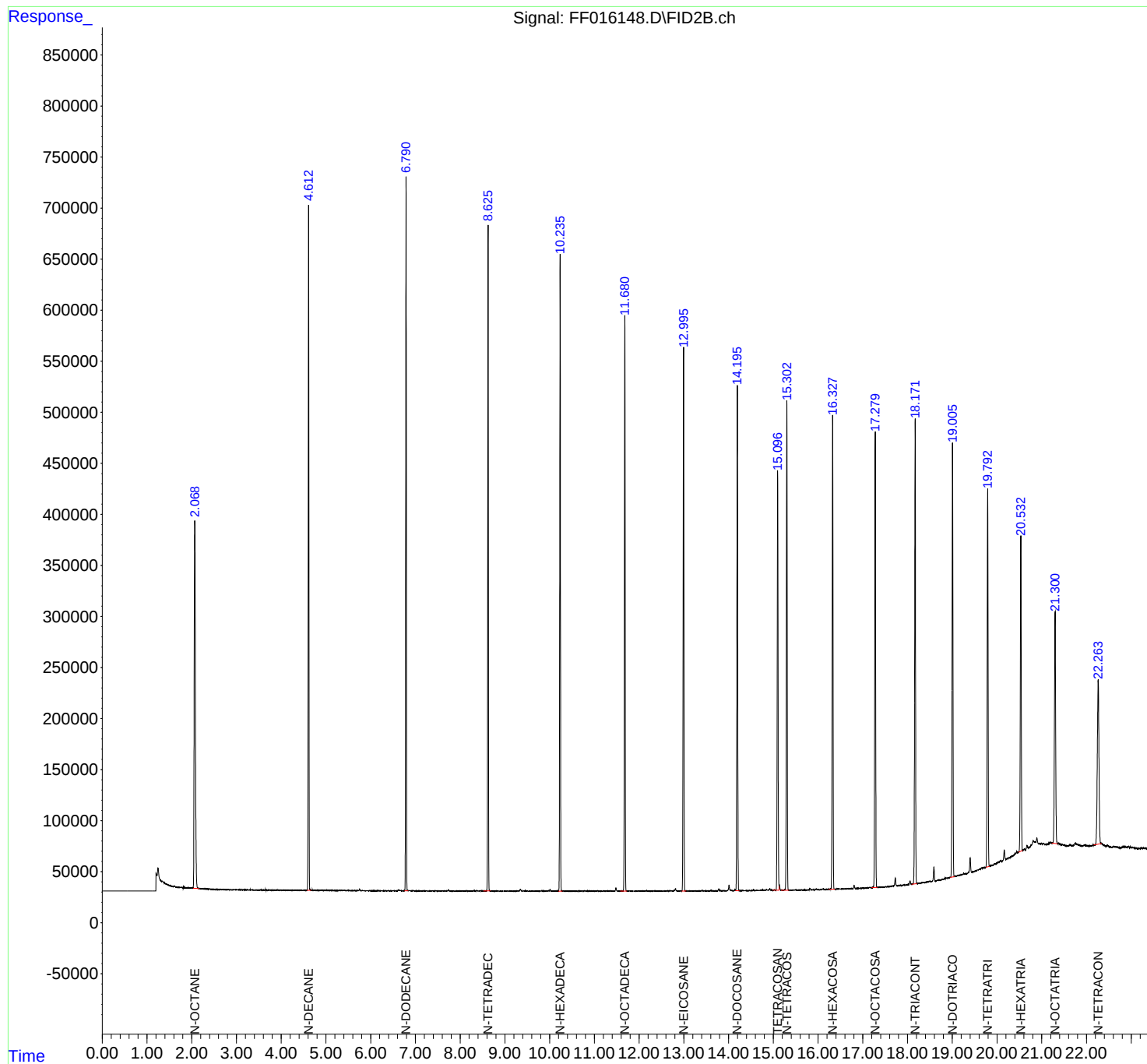
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016148.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 12:49
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Jul 14 14:17:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016148.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 12:49
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.069	2.029	2.172	PB	360044	6885979	96.38%	6.381%
2	4.613	4.575	4.672	BB	670200	7144736	100.00%	6.621%
3	6.791	6.754	6.839	BB	699602	7051131	98.69%	6.535%
4	8.625	8.519	8.672	BB	653964	6838059	95.71%	6.337%
5	10.235	10.194	10.289	BB	624184	6658359	93.19%	6.171%
6	11.681	11.584	11.729	BB	564122	6610096	92.52%	6.126%
7	12.995	12.954	13.054	BB	533352	6501388	91.00%	6.025%
8	14.196	14.158	14.242	VB	495300	6244141	87.39%	5.787%
9	15.096	14.980	15.129	BV	409713	5512614	77.16%	5.109%
10	15.302	15.175	15.350	BB	479131	6191797	86.66%	5.738%
11	16.327	16.242	16.375	BB	464695	6108685	85.50%	5.661%
12	17.279	17.200	17.332	BB	444575	6027563	84.36%	5.586%
13	18.171	18.099	18.207	BB	450574	6094487	85.30%	5.648%
14	19.006	18.950	19.055	BV	425615	5917966	82.83%	5.484%
15	19.792	19.750	19.830	BV	370563	5329607	74.59%	4.939%
16	20.533	20.480	20.574	BV	308687	4588447	64.22%	4.252%
17	21.300	21.220	21.357	BV	227817	4195378	58.72%	3.888%
18	22.262	22.160	22.340	BBA	161309	4004909	56.05%	3.712%
Sum of corrected areas:						107905342		

FF071025.M Mon Jul 14 14:30:29 2025

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: ENTA05
ProjectID: 540 Degraw St, Brooklyn, NY - E9309
Lab Code: ACE SDG No.: Q2580
DataFile: FF016153.D Analyst Name: YP\AJ Analyst Date: 07-14-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	98031356	115331	106641	8.149

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
 Data File : FF016153.D
 Signal(s) : FID2B.ch
 Acq On : 14 Jul 2025 15:19
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 50 PPM TRPH STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/15/2025
 Supervised By :mohammad ahmed 07/16/2025

Integration File: autoint1.e
 Quant Time: Jul 15 00:47:56 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
 Quant Title :
 QLast Update : Thu Jul 10 12:51:11 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.104	5302187	54.451 ug/ml
Target Compounds			
1) N-OCTANE	2.072	6385774	51.195 ug/ml
2) N-DECANE	4.616	6546460	52.601 ug/ml
3) N-DODECANE	6.795	6452663	52.953 ug/ml
4) N-TETRADECANE	8.629	6307081	52.462 ug/ml
5) N-HEXADECANE	10.239	6213377	53.415 ug/ml
6) N-OCTADECANE	11.686	6240388	53.700 ug/ml
7) N-EICOSANE	13.000	6193496	52.957 ug/ml
8) N-DOCOSANE	14.202	5985522	53.383 ug/ml
10) N-TETRACOSANE	15.310	5953814	53.681 ug/ml
11) N-HEXACOSANE	16.333	5847943	54.462 ug/ml
12) N-OCTACOSANE	17.287	5814980	54.076 ug/ml
13) N-TRIACONTANE	18.178	5948351	54.919 ug/ml
14) N-DOTRIACONTANE	19.015	5721233	54.558 ug/ml
15) N-TETRATRIACONTANE	19.801	5280271	55.038 ug/ml
16) N-HEXATRIACONTANE	20.542	5033719	60.340 ug/ml
17) N-OCTATRIACONTANE	21.310	4084600	55.463 ug/ml
18) N-TETRACONTANE	22.276	4021684	59.126 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016153.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 15:19
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

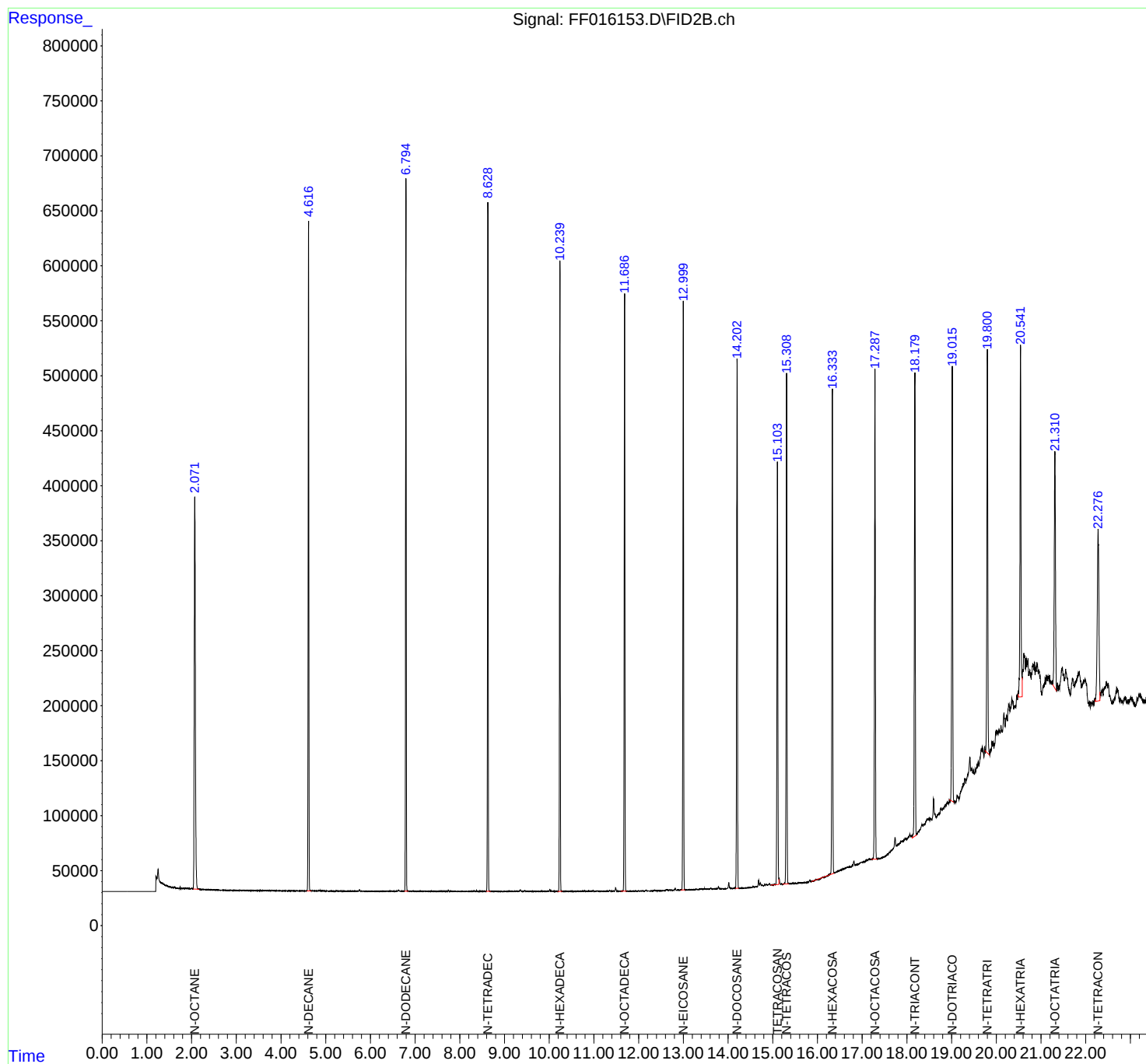
Instrument :
FID_F
Client Sample Id :
50 PPM TRPH STD

Manual Integrations
APPROVED

Reviewed By : Yogesh Patel 07/15/2025
Supervised By : mohammad ahmed 07/16/2025

Integration File: autoint1.e
Quant Time: Jul 15 00:47:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_F

LabSampleId :

50 PPM TRPH STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025

Supervised By :mohammad ahmed 07/16/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF07142
Data File : FF016153.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 15:19
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.072	2.032	2.169	PB	356895	6385774	97.55%	6.192%
2	4.616	4.579	4.672	BB	608849	6546460	100.00%	6.348%
3	6.795	6.759	6.844	BB	647257	6452663	98.57%	6.257%
4	8.629	8.589	8.687	BB	625154	6307081	96.34%	6.116%
5	10.239	10.190	10.294	BB	573302	6213377	94.91%	6.025%
6	11.686	11.599	11.732	BB	540141	6240388	95.32%	6.051%
7	13.000	12.940	13.039	BB	536296	6193496	94.61%	6.006%
8	14.202	14.167	14.244	VB	481563	5985522	91.43%	5.804%
9	15.104	14.952	15.136	PV	384342	5302187	80.99%	5.141%
10	15.310	15.215	15.365	BB	465156	5953814	90.95%	5.773%
11	16.333	15.869	16.372	BV	441282	5847943	89.33%	5.671%
12	17.287	17.200	17.339	BV	446366	5814980	88.83%	5.639%
13	18.178	18.121	18.217	VV	422129	5948351	90.86%	5.768%
14	19.015	18.950	19.049	BV	396316	5721233	87.39%	5.548%
15	19.801	19.750	19.854	BV	366924	5280271	80.66%	5.120%
16	20.542	20.494	20.580	VV	318379	5033719	76.89%	4.881%
17	21.310	21.264	21.349	VV	215157	4084600	62.39%	3.961%
18	22.276	22.160	22.324	BV	153274	3814034	58.26%	3.698%
Sum of corrected areas:						103125893		

FF071025.M Tue Jul 15 01:14:11 2025

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: ENTA05
ProjectID: 540 Degraw St, Brooklyn, NY - E9309
Lab Code: ACE SDG No.: Q2580
DataFile: FF016160.D Analyst Name: YP\AJ Analyst Date: 07-14-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	87782848	103274	106641	3.157

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
 Data File : FF016160.D
 Signal(s) : FID2B.ch
 Acq On : 14 Jul 2025 19:19
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Jul 15 00:49:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
 Quant Title :
 QLast Update : Thu Jul 10 12:51:11 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.098	4702042	48.288 ug/ml
Target Compounds			
1) N-OCTANE	2.066	5647318	45.275 ug/ml
2) N-DECANE	4.613	6004962	48.250 ug/ml
3) N-DODECANE	6.792	6030962	49.493 ug/ml
4) N-TETRADECANE	8.626	5908055	49.143 ug/ml
5) N-HEXADECANE	10.236	5770714	49.609 ug/ml
6) N-OCTADECANE	11.683	5706056	49.102 ug/ml
7) N-EICOSANE	12.996	5590138	47.798 ug/ml
8) N-DOCOSANE	14.197	5347413	47.692 ug/ml
10) N-TETRACOSANE	15.304	5282240	47.626 ug/ml
11) N-HEXACOSANE	16.328	5208809	48.510 ug/ml
12) N-OCTACOSANE	17.281	5146972	47.864 ug/ml
13) N-TRIACONTANE	18.172	5238509	48.365 ug/ml
14) N-DOTRIACONTANE	19.009	5111792	48.747 ug/ml
15) N-TETRATRIACONTANE	19.794	4603755	47.986 ug/ml
16) N-HEXATRIACONTANE	20.536	3998386	47.929 ug/ml
17) N-OCTATRIACONTANE	21.303	3677061	49.929 ug/ml
18) N-TETRACONTANE	22.265	3509706	51.599 ug/ml

(f)=RT Delta > 1/2 Window

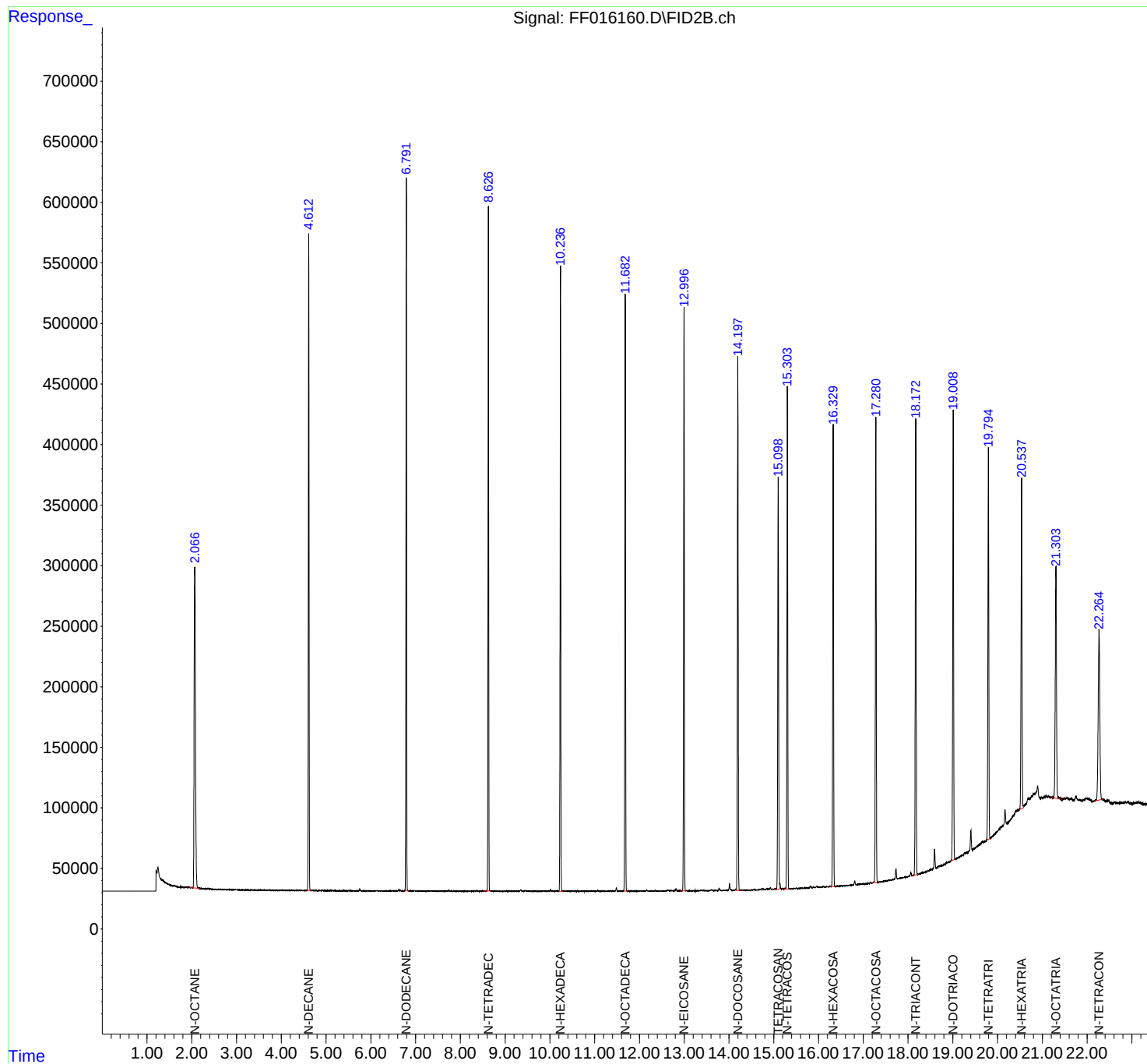
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016160.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 19:19
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Jul 15 00:49:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016160.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 19:19
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.066	1.961	2.172	BB	264918	5647318	93.64%	6.106%
2	4.613	4.572	4.679	BB	541264	6004962	99.57%	6.493%
3	6.792	6.752	6.841	BB	590513	6030962	100.00%	6.521%
4	8.626	8.521	8.672	BB	565037	5908055	97.96%	6.388%
5	10.236	10.199	10.296	BB	516020	5770714	95.68%	6.240%
6	11.683	11.644	11.739	BB	491913	5706056	94.61%	6.170%
7	12.996	12.921	13.037	BB	481686	5590138	92.69%	6.044%
8	14.197	14.161	14.257	VB	441103	5347413	88.67%	5.782%
9	15.098	15.001	15.131	BV	338535	4702042	77.97%	5.084%
10	15.304	15.204	15.359	BB	414270	5282240	87.59%	5.711%
11	16.328	16.244	16.371	BB	382384	5208809	86.37%	5.632%
12	17.281	17.201	17.321	BB	383093	5146972	85.34%	5.565%
13	18.172	18.092	18.211	PV	376109	5238509	86.86%	5.664%
14	19.009	18.951	19.047	BV	371924	5111792	84.76%	5.527%
15	19.794	19.751	19.830	BV	322817	4603755	76.34%	4.978%
16	20.536	20.481	20.577	BV	273022	3998386	66.30%	4.323%
17	21.303	21.221	21.437	BV	191347	3677061	60.97%	3.976%
18	22.265	22.161	22.340	BBA	140566	3509706	58.19%	3.795%
Sum of corrected areas:							92484892	

FF071025.M Tue Jul 15 01:16:38 2025

Analytical Sequence

Client: ENTACT

SDG No.: Q2580

Project: 540 Degraw St, Brooklyn, NY - E9309

Instrument ID: FID_F

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 15.1002					
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	14 Jul 2025 11:50	FF016147.D	15.095	
50 PPM TRPH STD	50 PPM TRPH STD	14 Jul 2025 12:49	FF016148.D	15.096	
WC-URBAN-FILL-B2	Q2580-02	14 Jul 2025 13:49	FF016150.D	15.095	
PIBLK02	LBLK02	14 Jul 2025 14:49	FF016152.D	15.101	
50 PPM TRPH STD	50 PPM TRPH STD	14 Jul 2025 15:19	FF016153.D	15.104	
PB168834BL	PB168834BL	14 Jul 2025 15:49	FF016154.D	15.099	
PB168834BS	PB168834BS	14 Jul 2025 16:19	FF016155.D	15.099	
WC-URBAN-FILL-B2MS	Q2580-02MS	14 Jul 2025 16:49	FF016156.D	15.100	
WC-URBAN-FILL-B2MSD	Q2580-02MSD	14 Jul 2025 17:19	FF016157.D	15.099	
PIBLK03	LBLK03	14 Jul 2025 18:19	FF016159.D	15.098	
50 PPM TRPH STD	50 PPM TRPH STD	14 Jul 2025 19:19	FF016160.D	15.098	



QC SAMPLE DATA

Report of Analysis

Client:	ENTACT	Date Collected:	
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	
Client Sample ID:	PB168834BL	SDG No.:	Q2580
Lab Sample ID:	PB168834BL	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100
Sample Wt/Vol:	30.02	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
FF016154.D	1	07/14/25 09:40	07/14/25 15:49	PB168834

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	0.38	U	0.38	2.83	mg/Kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	19.1		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_F\Data\FF071425\
Data File : FF016154.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 15:49
Operator : YP\AJ
Sample : PB168834BL
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB168834BL

Integration File: autoint1.e
Quant Time: Jul 15 00:48:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.099	1859204	19.093 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

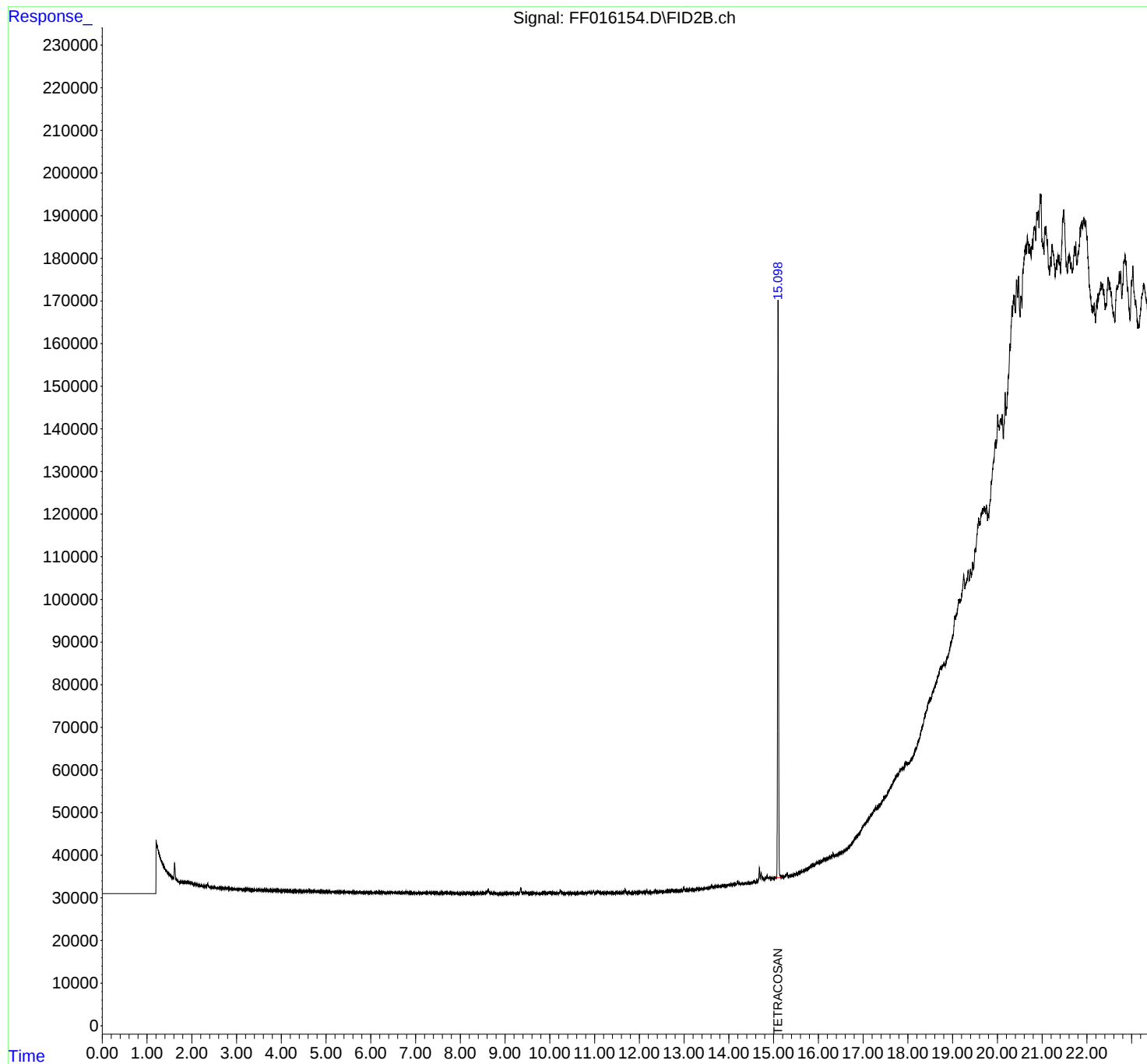
(m)=manual int.

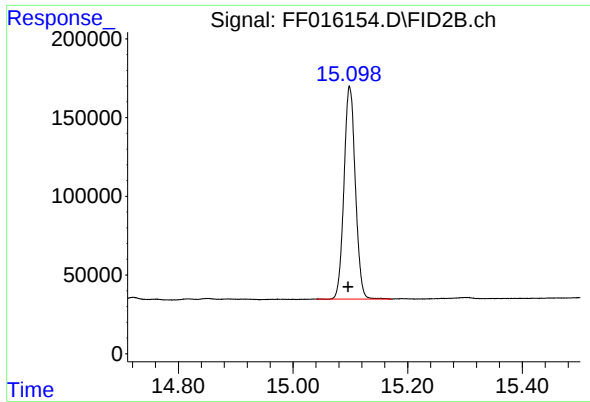
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016154.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 15:49
Operator : YP\AJ
Sample : PB168834BL
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB168834BL

Integration File: autoint1.e
Quant Time: Jul 15 00:48:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.099 min
Delta R.T.: 0.003 min
Response: 1859204
Conc: 19.09 ug/ml

Instrument :
FID_F
ClientSampleId :
PB168834BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016154.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 15:49
Sample : PB168834BL
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.099	15.040	15.172	BB	135063	1859204	100.00%	100.000%
Sum of corrected areas:						1859204		

FF071025.M Tue Jul 15 01:14:31 2025

Report of Analysis

Client:	ENTACT		Date Collected:	07/14/25	
Project:	540 Degraw St, Brooklyn, NY - E9309		Date Received:	07/14/25	
Client Sample ID:	PIBLK-FF016147.D		SDG No.:	Q2580	
Lab Sample ID:	I.BLK-FF016147.D		Matrix:	Water	
Analytical Method:	8015D TPH		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3510				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016147.D	1		07/14/25	FF071425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	0.012	U	0.012	0.085	mg/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.4		29 - 130	92%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016147.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 11:50
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 14 14:16:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.095	1789202	18.374 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

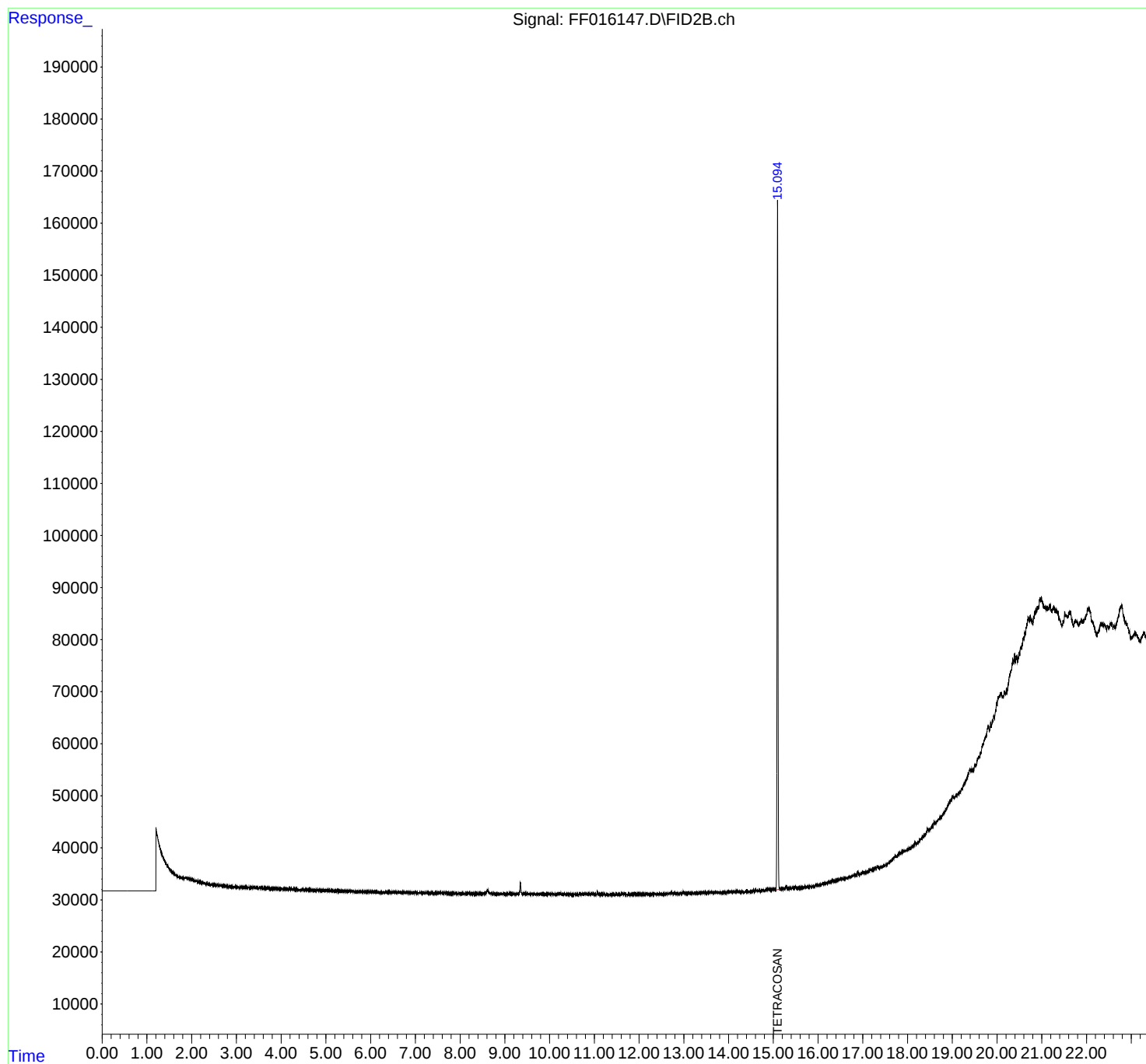
(m)=manual int.

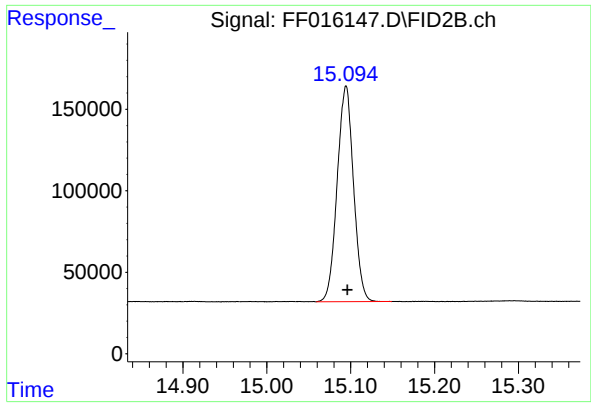
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016147.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 11:50
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 14 14:16:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 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.: 15.095 min
Delta R.T.: -0.002 min
Response: 1789202
Conc: 18.37 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016147.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 11:50
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.095	15.059	15.149	BB	132588	1789202	100.00%	100.000%
Sum of corrected areas:						1789202		

FF071025.M Mon Jul 14 14:29:53 2025

Report of Analysis

Client:	ENTACT	Date Collected:	07/14/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	07/14/25
Client Sample ID:	PIBLK-FF016152.D	SDG No.:	Q2580
Lab Sample ID:	I.BLK-FF016152.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
FF016152.D	1		07/14/25	FF071425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	0.012	U	0.012	0.085	mg/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	20.4		29 - 130	102%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016152.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 14:49
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/15/2025
Supervised By :mohammad ahmed 07/16/2025

Integration File: autoint1.e
Quant Time: Jul 15 00:47:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.101	1985029	20.385 ug/mlm
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016152.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 14:49
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

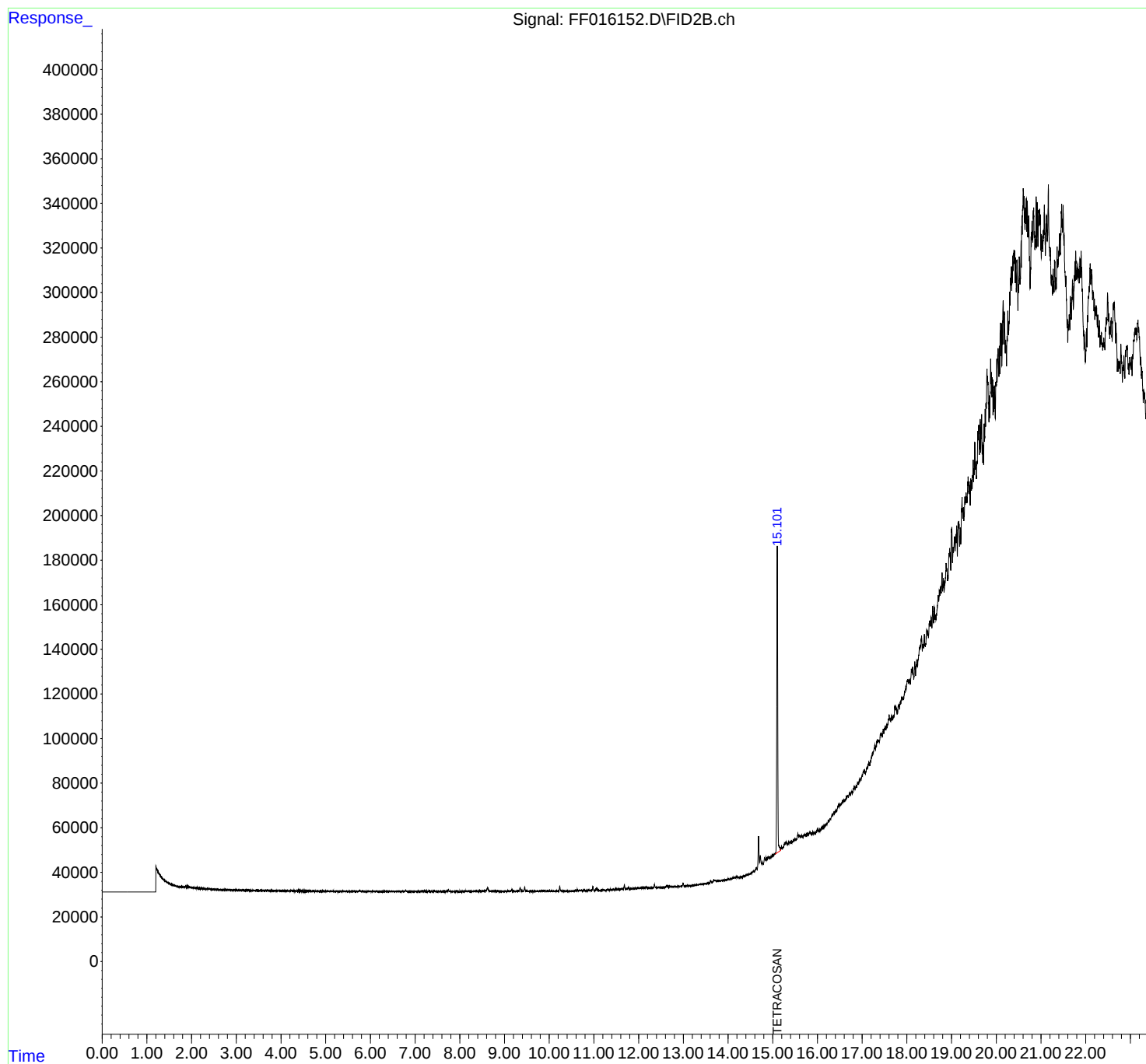
Instrument :
FID_F
ClientSampleId :
I.BLK

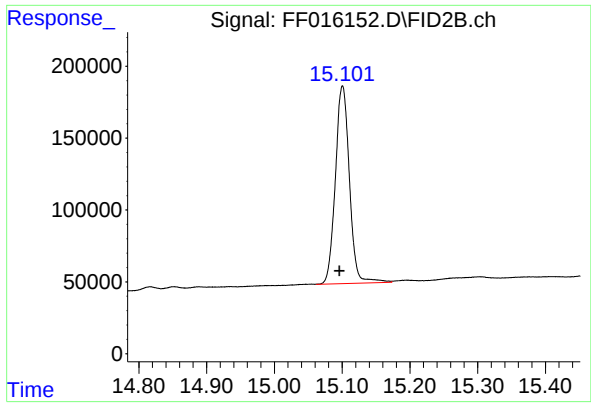
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/15/2025
Supervised By :mohammad ahmed 07/16/2025

Integration File: autoint1.e
Quant Time: Jul 15 00:47:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.101 min
Delta R.T.: 0.004 min
Response: 1985029
Conc: 20.39 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/15/2025
Supervised By :mohammad ahmed 07/16/2025

rteres

Instrument :
FID_F
LabSampleId :
I.BLK

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025
Supervised By :mohammad ahmed 07/16/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF07142
Data File : FF016152.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 14:49
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.101	14.907	15.172	BV	137552	1961398	100.00%	100.000%
Sum of corrected areas:						1961398		

FF071025.M Tue Jul 15 01:12:59 2025

Report of Analysis

Client:	ENTACT		Date Collected:	07/14/25	
Project:	540 Degraw St, Brooklyn, NY - E9309		Date Received:	07/14/25	
Client Sample ID:	PIBLK-FF016159.D		SDG No.:	Q2580	
Lab Sample ID:	I.BLK-FF016159.D		Matrix:	Water	
Analytical Method:	8015D TPH		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3510				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016159.D	1		07/14/25	FF071425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	0.012	U	0.012	0.085	mg/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	19.9		29 - 130	99%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016159.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 18:19
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 15 00:49:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.098	1936446	19.887 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

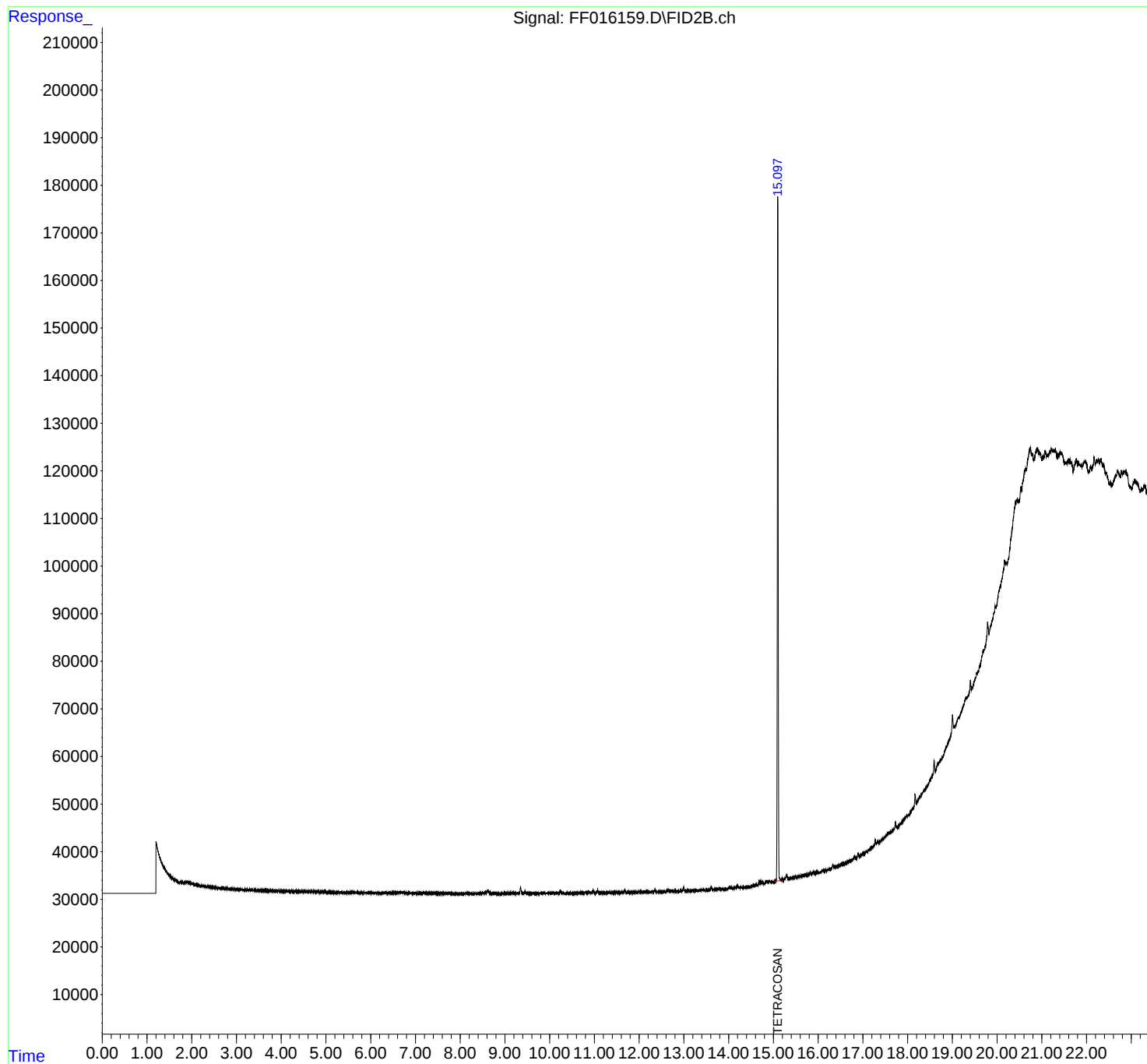
(m)=manual int.

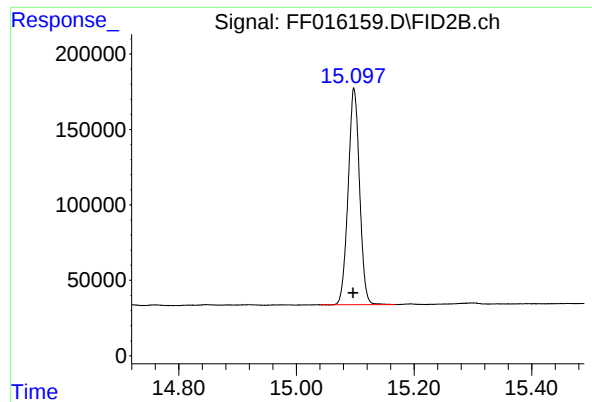
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016159.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 18:19
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Jul 15 00:49:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 15.098 min
Delta R.T.: 0.002 min
Response: 1936446
Conc: 19.89 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016159.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 18:19
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.098	15.040	15.169	BB	143912	1936446	100.00%	100.000%
Sum of corrected areas:						1936446		

FF071025.M Tue Jul 15 01:15:54 2025

Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	540 Degraw St, Brooklyn, NY - E9309		Date Received:		
Client Sample ID:	PB168834BS		SDG No.:	Q2580	
Lab Sample ID:	PB168834BS		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	100	Decanted:
Sample Wt/Vol:	30.01	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016155.D	1	07/14/25 09:40	07/14/25 16:19	PB168834

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	9.90		0.38	2.83	mg/Kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	18.3		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_F\Data\FF071425\
 Data File : FF016155.D
 Signal(s) : FID2B.ch
 Acq On : 14 Jul 2025 16:19
 Operator : YP\AJ
 Sample : PB168834BS
 Misc :
 ALS Vial : 74 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 PB168834BS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/15/2025
 Supervised By :mohammad ahmed 07/16/2025

Integration File: autoint1.e
 Quant Time: Jul 15 00:48:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
 Quant Title :
 QLast Update : Thu Jul 10 12:51:11 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.099	1781091	18.291 ug/ml
Target Compounds			
1) N-OCTANE	2.072	1836877	14.726 ug/ml
2) N-DECANE	4.613	2088805	16.784 ug/ml
3) N-DODECANE	6.791	2076303	17.039 ug/ml
4) N-TETRADECANE	8.625	2064108	17.169 ug/ml
5) N-HEXADECANE	10.235	2033266	17.479 ug/ml
6) N-OCTADECANE	11.682	2059107	17.719 ug/ml
7) N-EICOSANE	12.995	2090748	17.877 ug/ml
8) N-DOCOSANE	14.197	2017137	17.990 ug/ml
10) N-TETRACOSANE	15.304	2004342	18.072 ug/ml
11) N-HEXACOSANE	16.328	1947364	18.136 ug/ml
12) N-OCTACOSANE	17.281	1935249	17.997 ug/ml
13) N-TRIACONTANE	18.172	1922601	17.751 ug/ml
14) N-DOTRIACONTANE	19.008	1862093	17.757 ug/ml
15) N-TETRATRIACONTANE	19.796	1606244	16.742 ug/ml
16) N-HEXATRIACONTANE	20.536	1520984	18.232 ug/ml
17) N-OCTATRIACONTANE	21.305	1389525	18.868 ug/mlm
18) N-TETRACONTANE	22.267	1391874	20.463 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016155.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 16:19
Operator : YP\AJ
Sample : PB168834BS
Misc :
ALS Vial : 74 Sample Multiplier: 1

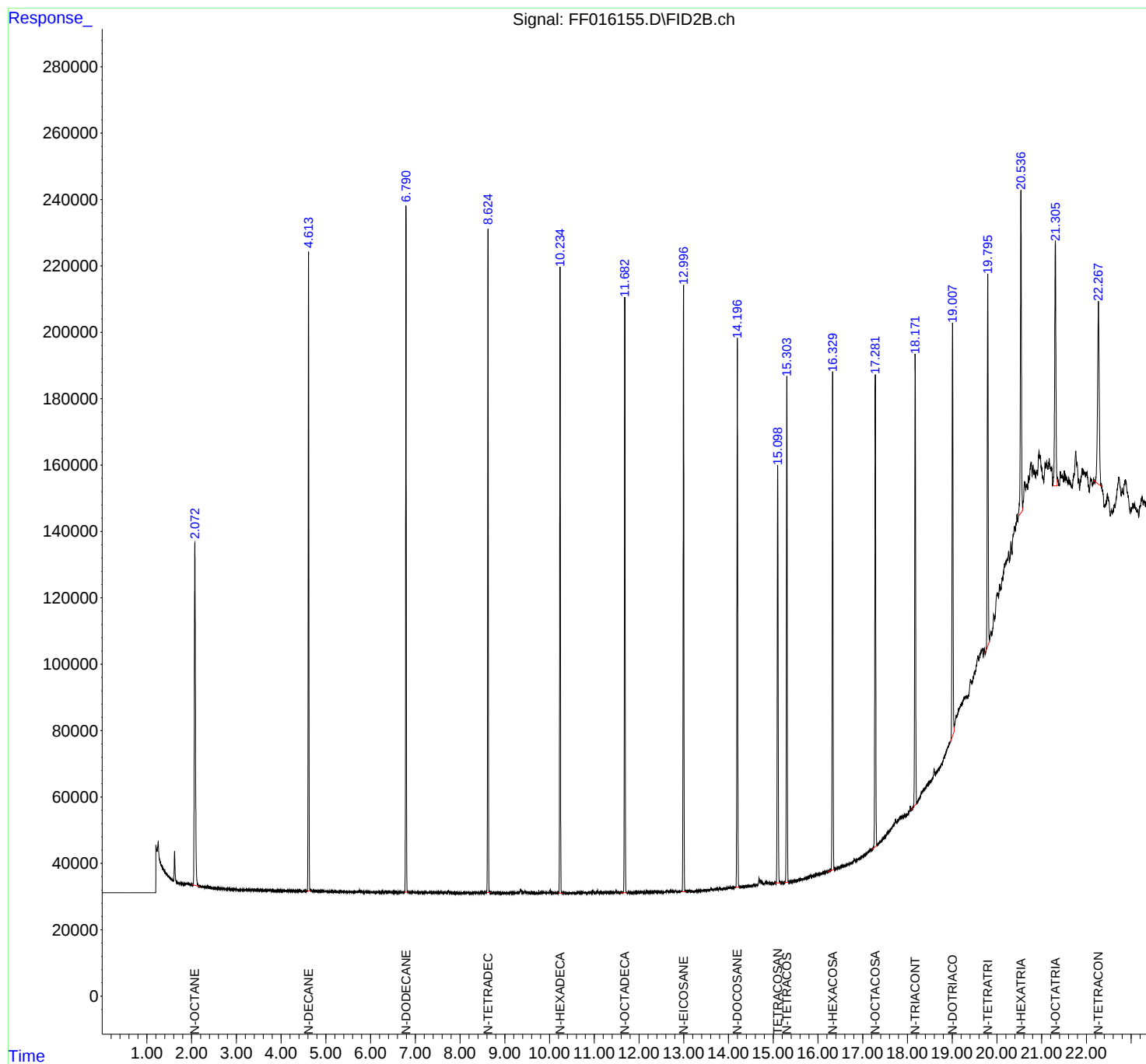
Instrument :
FID_F
ClientSampleId :
PB168834BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/15/2025
Supervised By :mohammad ahmed 07/16/2025

Integration File: autoint1.e
Quant Time: Jul 15 00:48:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_F

ClientSampleId :

PB168834BS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025

Supervised By :mohammad ahmed 07/16/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF07142
Data File : FF016155.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 16:19
Sample : PB168834BS
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.072	2.011	2.172	BB	103030	1836877	87.86%	5.491%
2	4.613	4.581	4.664	BB	192355	2088805	99.91%	6.244%
3	6.791	6.759	6.834	BB	206463	2076303	99.31%	6.206%
4	8.625	8.589	8.676	BB	199589	2064108	98.73%	6.170%
5	10.235	10.201	10.287	BB	187569	2033266	97.25%	6.078%
6	11.682	11.596	11.727	BB	179328	2059107	98.49%	6.155%
7	12.995	12.954	13.039	BB	182925	2090748	100.00%	6.249%
8	14.197	14.139	14.244	BB	165329	2017137	96.48%	6.029%
9	15.099	15.042	15.169	BB	125532	1781091	85.19%	5.324%
10	15.304	15.251	15.346	BB	152623	2004342	95.87%	5.991%
11	16.329	16.221	16.367	BB	150200	1947364	93.14%	5.821%
12	17.281	17.201	17.318	BV	141851	1935249	92.56%	5.785%
13	18.172	18.087	18.207	PV	134074	1922601	91.96%	5.747%
14	19.008	18.951	19.044	BV	124340	1862093	89.06%	5.566%
15	19.796	19.751	19.832	BV	112024	1606244	76.83%	4.801%
16	20.536	20.481	20.574	BV	97057	1520984	72.75%	4.546%
17	21.306	21.229	21.348	BV	71411	1217013	58.21%	3.638%
18	22.267	22.169	22.340	BBA	55051	1391874	66.57%	4.160%
Sum of corrected areas:						33455205		

FF071025.M Tue Jul 15 01:15:35 2025

Report of Analysis

Client:	ENTACT		Date Collected:	07/10/25	
Project:	540 Degraw St, Brooklyn, NY - E9309		Date Received:	07/10/25	
Client Sample ID:	WC-URBAN-FILL-B2MS		SDG No.:	Q2580	
Lab Sample ID:	Q2580-02MS		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	94.5	Decanted:
Sample Wt/Vol:	30.06	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
FF016156.D	1	07/14/25 09:40	07/14/25 16:49	PB168834

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	46.6		0.41	2.99	mg/Kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	14.8		37 - 130	74%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
 Data File : FF016156.D
 Signal(s) : FID2B.ch
 Acq On : 14 Jul 2025 16:49
 Operator : YP\AJ
 Sample : Q2580-02MS
 Misc :
 ALS Vial : 75 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 WC-URBAN-FILL-B2MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/15/2025
 Supervised By :mohammad ahmed 07/16/2025

Integration File: autoint1.e
 Quant Time: Jul 15 00:48:32 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
 Quant Title :
 QLast Update : Thu Jul 10 12:51:11 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.100	1436068	14.748 ug/ml
Target Compounds			
1) N-OCTANE	2.073	2189743	17.555 ug/ml
2) N-DECANE	4.614	2315154	18.603 ug/ml
3) N-DODECANE	6.791	2426428	19.912 ug/ml
4) N-TETRADECANE	8.624	2409783	20.045 ug/mlm
5) N-HEXADECANE	10.235	2256764	19.401 ug/ml
6) N-OCTADECANE	11.682	2408882	20.729 ug/ml
7) N-EICOSANE	12.995	2522592	21.569 ug/ml
8) N-DOCOSANE	14.197	2406943	21.467 ug/ml
10) N-TETRACOSANE	15.305	3378369	30.460 ug/ml
11) N-HEXACOSANE	16.330	2271347	21.153 ug/ml
12) N-OCTACOSANE	17.282	2507476	23.318 ug/mlm
13) N-TRIACONTANE	18.173	2348376	21.682 ug/ml
14) N-DOTRIACONTANE	19.008	2126082	20.275 ug/mlm
15) N-TETRATRIACONTANE	19.797	1914781	19.958 ug/ml
16) N-HEXATRIACONTANE	20.537	1724619	20.673 ug/ml
17) N-OCTATRIACONTANE	21.305	1558840	21.167 ug/mlm
18) N-TETRACONTANE	22.268	1597774	23.490 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016156.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 16:49
Operator : YP\AJ
Sample : Q2580-02MS
Misc :
ALS Vial : 75 Sample Multiplier: 1

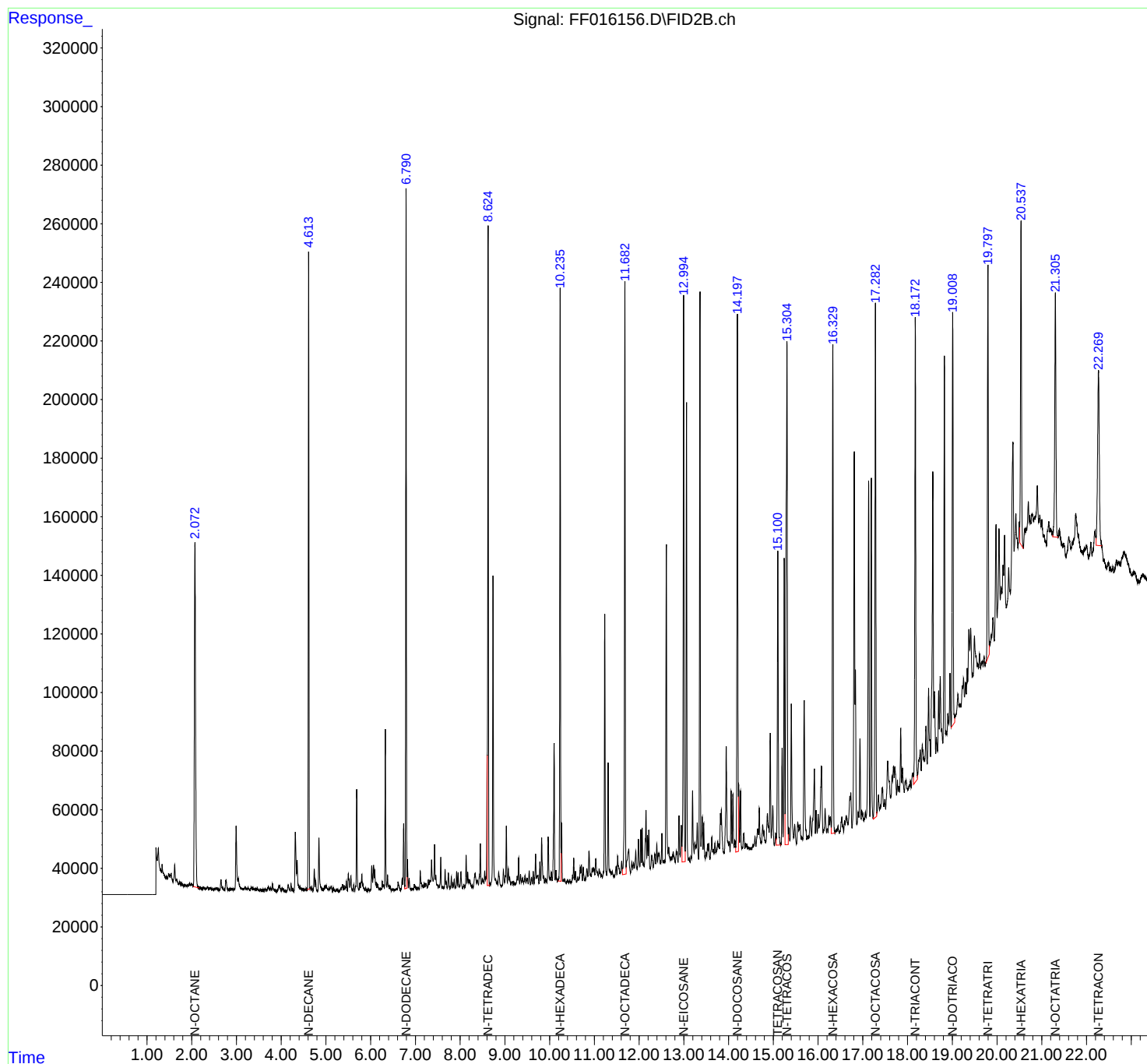
Instrument :
FID_F
ClientSampleId :
WC-URBAN-FILL-B2MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/15/2025
Supervised By :mohammad ahmed 07/16/2025

Integration File: autoint1.e
Quant Time: Jul 15 00:48:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_F

ClientSampleId :

WC-URBAN-FILL-B2MS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025

Supervised By :mohammad ahmed 07/16/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF07142
Data File : FF016156.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 16:49
Sample : Q2580-02MS
Misc :
ALS Vial : 75 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.839	1.818	1.859	BV	182	1942	0.05%	0.001%
2	1.866	1.859	1.885	VV	182	2126	0.06%	0.001%
3	1.895	1.885	1.922	VV	247	4840	0.13%	0.003%
4	1.948	1.922	1.967	VV	1008	18076	0.48%	0.013%
5	1.990	1.967	1.993	VV	859	11629	0.31%	0.008%
6	2.005	1.993	2.034	VV	1019	17960	0.47%	0.013%
7	2.073	2.034	2.210	VV	117774	2208291	58.39%	1.547%
8	2.215	2.210	2.233	PV	127	1017	0.03%	0.001%
9	2.256	2.233	2.315	VV	493	11495	0.30%	0.008%
10	2.325	2.315	2.329	VV	224	869	0.02%	0.001%
11	2.353	2.329	2.383	VV	968	13914	0.37%	0.010%
12	2.403	2.383	2.410	VV	434	5268	0.14%	0.004%
13	2.412	2.410	2.475	VV	516	8805	0.23%	0.006%
14	2.478	2.475	2.482	VV	126	314	0.01%	0.000%
15	2.506	2.482	2.520	PV	252	3924	0.10%	0.003%
16	2.549	2.520	2.625	VV	708	17577	0.46%	0.012%
17	2.653	2.625	2.735	PV	3577	71688	1.90%	0.050%
18	2.765	2.735	2.824	VV	3455	68821	1.82%	0.048%
19	2.847	2.824	2.868	VV	446	8035	0.21%	0.006%
20	2.889	2.868	2.938	VV	598	16134	0.43%	0.011%
21	2.992	2.938	3.028	VV	21982	360867	9.54%	0.253%
22	3.041	3.028	3.136	VV	4199	110399	2.92%	0.077%
23	3.141	3.136	3.160	VV	609	7797	0.21%	0.005%
24	3.190	3.160	3.230	VV	1160	32122	0.85%	0.023%
25	3.233	3.230	3.250	VV	672	7281	0.19%	0.005%
26	3.263	3.250	3.302	VV	933	19049	0.50%	0.013%
27	3.328	3.302	3.346	VV	1132	21270	0.56%	0.015%
28	3.357	3.346	3.397	VV	1102	22932	0.61%	0.016%
29	3.401	3.397	3.412	VV	515	4173	0.11%	0.003%
30	3.417	3.412	3.444	VV	535	8593	0.23%	0.006%
31	3.469	3.444	3.508	VV	783	16354	0.43%	0.011%
32	3.518	3.508	3.526	VV	186	1586	0.04%	0.001%
33	3.546	3.526	3.565	VV	293	4793	0.13%	0.003%
34	3.571	3.565	3.583	VV	220	2033	0.05%	0.001%
35	3.599	3.583	3.624	VV	393	5329	0.14%	0.004%
36	3.642	3.624	3.663	VV	778	11024	0.29%	0.008%

					retention			
37	3.716	3.663	3.742	VV	1579	37905	1.00%	0.027%
38	3.766	3.742	3.785	VV	990	17636	0.00%	0.000%
39	3.806	3.785	3.831	VV	2589	37420	0.00%	0.000%
40	3.836	3.831	3.871	VV	635	8671	0.00%	0.000%
41	3.877	3.871	3.881	VV	121	647	0.00%	0.000%
42	3.885	3.881	3.895	VV	140	773	0.00%	0.000%
43	3.898	3.895	3.902	VV	89	326	0.01%	0.000%
44	3.944	3.902	3.952	PV	1637	20856	0.55%	0.015%
45	3.966	3.952	4.002	VV	1874	33129	0.88%	0.023%
46	4.018	4.002	4.026	VV	791	9173	0.24%	0.006%
47	4.039	4.026	4.063	VV	998	14697	0.39%	0.010%
48	4.068	4.063	4.085	VV	215	2091	0.06%	0.001%
49	4.089	4.085	4.103	VV	133	681	0.02%	0.000%
50	4.119	4.103	4.125	PV	194	1419	0.04%	0.001%
51	4.157	4.125	4.200	VV	2270	45030	1.19%	0.032%
52	4.219	4.200	4.244	VV	2654	34943	0.92%	0.024%
53	4.259	4.244	4.288	VV	697	12305	0.33%	0.009%
54	4.315	4.288	4.343	VV	20194	333577	8.82%	0.234%
55	4.356	4.343	4.405	VV	10660	171999	4.55%	0.121%
56	4.409	4.405	4.442	VV	1489	25840	0.68%	0.018%
57	4.451	4.442	4.470	VV	865	12081	0.32%	0.008%
58	4.475	4.470	4.490	VV	591	6371	0.17%	0.004%
59	4.500	4.490	4.515	VV	614	7912	0.21%	0.006%
60	4.530	4.515	4.538	VV	646	7802	0.21%	0.005%
61	4.541	4.538	4.547	VV	604	3374	0.09%	0.002%
62	4.558	4.547	4.582	VV	861	13682	0.36%	0.010%
63	4.614	4.582	4.642	VV	218242	2342215	61.93%	1.641%
64	4.652	4.642	4.668	VV	1394	15535	0.41%	0.011%
65	4.684	4.668	4.708	VV	1444	20192	0.53%	0.014%
66	4.740	4.708	4.758	VV	7515	96560	2.55%	0.068%
67	4.770	4.758	4.815	VV	3776	49092	1.30%	0.034%
68	4.844	4.815	4.938	VV	18237	274874	7.27%	0.193%
69	4.975	4.938	4.988	VV	1968	32444	0.86%	0.023%
70	5.006	4.988	5.047	VV	2027	43939	1.16%	0.031%
71	5.075	5.047	5.089	VV	1045	21106	0.56%	0.015%
72	5.120	5.089	5.147	VV	1800	38514	1.02%	0.027%
73	5.168	5.147	5.190	VV	1204	16129	0.43%	0.011%
74	5.195	5.190	5.210	VV	306	2202	0.06%	0.002%
75	5.227	5.210	5.257	VV	524	9823	0.26%	0.007%
76	5.266	5.257	5.288	VV	452	4762	0.13%	0.003%
77	5.303	5.288	5.307	PV	266	1659	0.04%	0.001%
78	5.333	5.307	5.344	VV	1134	15389	0.41%	0.011%
79	5.373	5.344	5.390	VV	2326	38839	1.03%	0.027%
80	5.407	5.390	5.423	VV	1924	24584	0.65%	0.017%
81	5.436	5.423	5.441	VV	1184	9904	0.26%	0.007%
82	5.457	5.441	5.480	VV	3499	41155	1.09%	0.029%
83	5.501	5.480	5.535	VV	6017	102833	2.72%	0.072%
84	5.558	5.535	5.603	VV	5239	80594	2.13%	0.056%
85	5.621	5.603	5.643	VV	2237	26457	0.70%	0.019%
86	5.663	5.643	5.669	VV	1726	15683	0.41%	0.011%
87	5.688	5.669	5.736	VV	34862	385514	10.19%	0.270%
88	5.756	5.736	5.771	VV	2791	34160	0.90%	0.024%
89	5.786	5.771	5.790	VV	3120	27107	0.72%	0.019%

Instrument :

FID_F

ClientSampleId :

WC-URBAN-FILL-B2MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025

Supervised By :mohammad ahmed 07/16/2025

90	5.803	5.790	5.820	VV	5710	65715	1.74%	0.046%
91	5.829	5.820	5.880	VV	2360	38747		
92	5.888	5.880	5.931	VV	1106	12876		
93	5.948	5.931	5.974	VV	822	10146		
94	5.987	5.974	5.997	VV	464	4523		
95	6.025	5.997	6.044	VV	8662	118364		
96	6.065	6.044	6.080	VV	8760	131374	3.47%	0.092%
97	6.092	6.080	6.110	VV	7192	87416	2.31%	0.061%
98	6.122	6.110	6.139	VV	2938	37272	0.99%	0.026%
99	6.155	6.139	6.187	VV	2273	41081	1.09%	0.029%
100	6.193	6.187	6.211	VV	751	9066	0.24%	0.006%
101	6.224	6.211	6.240	VV	825	11077	0.29%	0.008%
102	6.259	6.240	6.274	VV	3335	39111	1.03%	0.027%
103	6.290	6.274	6.306	VV	1956	30982	0.82%	0.022%
104	6.328	6.306	6.360	VV	55209	570129	15.08%	0.399%
105	6.378	6.360	6.420	VV	5362	85172	2.25%	0.060%
106	6.432	6.420	6.458	VV	1641	20520	0.54%	0.014%
107	6.473	6.458	6.490	VV	516	5485	0.15%	0.004%
108	6.501	6.490	6.518	VV	694	8153	0.22%	0.006%
109	6.523	6.518	6.540	VV	512	3824	0.10%	0.003%
110	6.556	6.540	6.566	PV	640	5255	0.14%	0.004%
111	6.582	6.566	6.595	VV	570	7496	0.20%	0.005%
112	6.614	6.595	6.662	VV	2993	53844	1.42%	0.038%
113	6.705	6.662	6.717	VV	4275	58104	1.54%	0.041%
114	6.736	6.717	6.764	VV	22814	259316	6.86%	0.182%
115	6.791	6.764	6.812	VV	239428	2443560	64.61%	1.712%
116	6.823	6.812	6.843	VV	10595	108489	2.87%	0.076%
117	6.860	6.843	6.897	VV	4110	54789	1.45%	0.038%
118	6.901	6.897	6.905	VV	309	1234	0.03%	0.001%
119	6.913	6.905	6.922	VV	320	2367	0.06%	0.002%
120	6.940	6.922	6.956	VV	469	6320	0.17%	0.004%
121	6.975	6.956	7.005	VV	1982	32593	0.86%	0.023%
122	7.017	7.005	7.031	VV	910	8640	0.23%	0.006%
123	7.048	7.031	7.070	VV	573	10696	0.28%	0.007%
124	7.074	7.070	7.089	VV	551	3924	0.10%	0.003%
125	7.108	7.089	7.150	VV	6506	103175	2.73%	0.072%
126	7.164	7.150	7.183	VV	1705	23696	0.63%	0.017%
127	7.201	7.183	7.215	VV	2030	26070	0.69%	0.018%
128	7.233	7.215	7.267	VV	2097	45707	1.21%	0.032%
129	7.286	7.267	7.303	VV	3225	44438	1.18%	0.031%
130	7.322	7.303	7.335	VV	2912	49723	1.31%	0.035%
131	7.361	7.335	7.394	VV	10144	179725	4.75%	0.126%
132	7.428	7.394	7.445	VV	15317	214286	5.67%	0.150%
133	7.456	7.445	7.481	VV	4799	64967	1.72%	0.046%
134	7.487	7.481	7.505	VV	1454	18208	0.48%	0.013%
135	7.517	7.505	7.535	VV	1162	14964	0.40%	0.010%
136	7.566	7.535	7.592	VV	10898	126096	3.33%	0.088%
137	7.608	7.592	7.621	VV	719	8437	0.22%	0.006%
138	7.635	7.621	7.645	VV	516	5238	0.14%	0.004%
139	7.663	7.645	7.678	VV	6577	66512	1.76%	0.047%
140	7.689	7.678	7.714	VV	2443	28866	0.76%	0.020%
141	7.737	7.714	7.769	VV	5414	74637	1.97%	0.052%

Instrument :

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ClientSampleId :

WC-URBAN-FILL-B2MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025

Supervised By :mohammad ahmed 07/16/2025

					rters			
142	7.776	7.769	7.785	VV	376	3362	0.09%	0.002%
143	7.803	7.785	7.823	VV	4038	43056		
144	7.838	7.823	7.853	VV	1932	20497		
145	7.867	7.853	7.887	VV	3126	32493		
146	7.921	7.887	7.938	VV	5805	68288		
147	7.954	7.938	7.974	VV	5381	56540		
148	7.984	7.974	7.993	VV	832	7956	0.21%	0.006%
149	8.016	7.993	8.057	VV	5622	77684	2.05%	0.054%
150	8.081	8.057	8.098	VV	1309	14547	0.38%	0.010%
151	8.134	8.098	8.154	PV	11251	122644	3.24%	0.086%
152	8.169	8.154	8.185	VV	5377	66104	1.75%	0.046%
153	8.198	8.185	8.210	VV	2817	34180	0.90%	0.024%
154	8.221	8.210	8.261	VV	2616	37877	1.00%	0.027%
155	8.274	8.261	8.291	VV	566	6743	0.18%	0.005%
156	8.332	8.291	8.368	VV	4631	122894	3.25%	0.086%
157	8.388	8.368	8.409	VV	2344	43763	1.16%	0.031%
158	8.428	8.409	8.433	VV	3857	35869	0.95%	0.025%
159	8.451	8.433	8.480	VV	14977	185662	4.91%	0.130%
160	8.496	8.480	8.510	VV	3095	42180	1.12%	0.030%
161	8.515	8.510	8.532	VV	2228	23733	0.63%	0.017%
162	8.549	8.532	8.564	VV	5467	66464	1.76%	0.047%
163	8.576	8.564	8.582	VV	3421	33127	0.88%	0.023%
164	8.625	8.582	8.654	VV	225556	2767406	73.18%	1.939%
165	8.670	8.654	8.680	VV	1055	14282	0.38%	0.010%
166	8.735	8.680	8.783	VV	106294	1241635	32.83%	0.870%
167	8.791	8.783	8.814	VV	2400	36293	0.96%	0.025%
168	8.827	8.814	8.843	VV	1698	21059	0.56%	0.015%
169	8.862	8.843	8.928	VV	4930	89602	2.37%	0.063%
170	8.968	8.928	8.995	PV	5615	85496	2.26%	0.060%
171	9.033	8.995	9.056	VV	20574	261594	6.92%	0.183%
172	9.077	9.056	9.095	VV	6005	84294	2.23%	0.059%
173	9.107	9.095	9.136	VV	3066	44052	1.16%	0.031%
174	9.165	9.136	9.184	VV	1474	29145	0.77%	0.020%
175	9.197	9.184	9.221	VV	1572	21129	0.56%	0.015%
176	9.233	9.221	9.245	VV	994	11039	0.29%	0.008%
177	9.275	9.245	9.288	VV	3115	45469	1.20%	0.032%
178	9.307	9.288	9.330	VV	9551	112230	2.97%	0.079%
179	9.350	9.330	9.374	VV	3817	55401	1.46%	0.039%
180	9.395	9.374	9.419	VV	2372	46615	1.23%	0.033%
181	9.450	9.419	9.470	VV	3385	56259	1.49%	0.039%
182	9.487	9.470	9.495	VV	2273	25721	0.68%	0.018%
183	9.502	9.495	9.520	VV	2402	24958	0.66%	0.017%
184	9.544	9.520	9.575	VV	4806	66322	1.75%	0.046%
185	9.596	9.575	9.617	VV	2383	34970	0.92%	0.025%
186	9.634	9.617	9.653	VV	4628	50151	1.33%	0.035%
187	9.687	9.653	9.706	VV	10470	146471	3.87%	0.103%
188	9.737	9.706	9.763	VV	3218	80668	2.13%	0.057%
189	9.783	9.763	9.801	VV	7803	86211	2.28%	0.060%
190	9.823	9.801	9.858	VV	15919	238254	6.30%	0.167%
191	9.867	9.858	9.885	VV	2939	32023	0.85%	0.022%
192	9.903	9.885	9.916	VV	2041	25010	0.66%	0.018%
193	9.924	9.916	9.936	VV	1283	11907	0.31%	0.008%
194	9.968	9.936	9.996	VV	16165	235347	6.22%	0.165%

Instrument :

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WC-URBAN-FILL-B2MS

Manual IntegrationsAPPROVED

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Supervised By :mohammad ahmed 07/16/2025

195	10.004	9.996	10.022	VV	2063	27760	0.73%	0.019%
196	10.039	10.022	10.058	VV	4126	57469		
197	10.101	10.058	10.124	VV	47991	644111	17.03%	0.019%
198	10.142	10.124	10.182	VV	4567	84104	2.03%	0.012%
199	10.202	10.182	10.208	VV	1845	21429	0.28%	0.007%
200	10.235	10.208	10.256	VV	203361	2272518	60.73%	0.002%
201	10.267	10.256	10.294	VV	20599	219158	5.79%	0.154%
202	10.334	10.294	10.369	VV	1484	38788	1.03%	0.027%
203	10.404	10.369	10.435	VV	709	16832	0.45%	0.012%
204	10.448	10.435	10.471	VV	1124	10694	0.28%	0.007%
205	10.487	10.471	10.491	PV	464	3532	0.09%	0.002%
206	10.512	10.491	10.522	VV	2599	28692	0.76%	0.020%
207	10.539	10.522	10.559	VV	8410	95946	2.54%	0.067%
208	10.576	10.559	10.605	VV	3794	46101	1.22%	0.032%
209	10.626	10.605	10.640	PV	1268	15848	0.42%	0.011%
210	10.683	10.640	10.695	VV	4925	77060	2.04%	0.054%
211	10.709	10.695	10.732	VV	5646	71502	1.89%	0.050%
212	10.751	10.732	10.785	VV	4798	64689	1.71%	0.045%
213	10.801	10.785	10.810	VV	1009	10098	0.27%	0.007%
214	10.829	10.810	10.855	VV	4053	69142	1.83%	0.048%
215	10.879	10.855	10.922	VV	10081	174750	4.62%	0.122%
216	10.949	10.922	10.961	VV	3836	58303	1.54%	0.041%
217	10.975	10.961	10.986	VV	4037	51618	1.36%	0.036%
218	10.996	10.986	11.010	VV	3592	41584	1.10%	0.029%
219	11.030	11.010	11.054	VV	7050	118618	3.14%	0.083%
220	11.060	11.054	11.088	VV	2509	36968	0.98%	0.026%
221	11.106	11.088	11.119	VV	3372	41589	1.10%	0.029%
222	11.130	11.119	11.144	VV	2109	24318	0.64%	0.017%
223	11.157	11.144	11.180	VV	1173	17926	0.47%	0.013%
224	11.232	11.180	11.272	VV	89955	1019816	26.97%	0.715%
225	11.307	11.272	11.345	VV	39216	492978	13.04%	0.345%
226	11.352	11.345	11.374	VV	2203	29353	0.78%	0.021%
227	11.378	11.374	11.385	VV	1318	8600	0.23%	0.006%
228	11.400	11.385	11.434	VV	2010	27180	0.72%	0.019%
229	11.485	11.434	11.503	PV	3308	49870	1.32%	0.035%
230	11.520	11.503	11.537	VV	6821	81704	2.16%	0.057%
231	11.540	11.537	11.571	VV	3351	43303	1.15%	0.030%
232	11.610	11.571	11.626	VV	4828	78736	2.08%	0.055%
233	11.682	11.626	11.709	VV	202742	2414759	63.85%	1.692%
234	11.767	11.709	11.809	VV	8366	270645	7.16%	0.190%
235	11.837	11.809	11.858	VV	3917	64899	1.72%	0.045%
236	11.875	11.858	11.897	VV	3408	58512	1.55%	0.041%
237	11.925	11.897	11.956	VV	7378	132899	3.51%	0.093%
238	11.985	11.956	12.018	VV	11231	181047	4.79%	0.127%
239	12.038	12.018	12.053	VV	14440	159887	4.23%	0.112%
240	12.069	12.053	12.090	VV	14820	172376	4.56%	0.121%
241	12.099	12.090	12.113	VV	2694	29522	0.78%	0.021%
242	12.154	12.113	12.172	VV	20723	345455	9.13%	0.242%
243	12.187	12.172	12.202	VV	12047	147376	3.90%	0.103%
244	12.217	12.202	12.248	VV	13632	178503	4.72%	0.125%
245	12.282	12.248	12.315	VV	4949	101297	2.68%	0.071%
246	12.350	12.315	12.372	VV	5293	105298	2.78%	0.074%

Instrument :

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WC-URBAN-FILL-B2MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025

Supervised By :mohammad ahmed 07/16/2025

rterres							WC-URBAN-FILL-B2	
247	12.395	12.372	12.414	VV	8578	117468	3.11%	0.082%
248	12.429	12.414	12.438	VV	5243	60901		
249	12.442	12.438	12.477	VV	4892	83494		
250	12.484	12.477	12.489	VV	2023	13512		
251	12.510	12.489	12.532	VV	11787	150400		
252	12.544	12.532	12.553	VV	2482	27863		
253	12.559	12.553	12.563	VV	2109	11870	0.31%	0.008%
254	12.609	12.563	12.646	VV	110099	1453715	38.44%	1.019%
255	12.663	12.646	12.701	VV	6680	142461	3.77%	0.100%
256	12.719	12.701	12.730	VV	2942	45883	1.21%	0.032%
257	12.740	12.730	12.747	VV	3238	29069	0.77%	0.020%
258	12.763	12.747	12.778	VV	4861	73649	1.95%	0.052%
259	12.784	12.778	12.806	VV	3128	37137	0.98%	0.026%
260	12.830	12.806	12.840	VV	4974	62215	1.65%	0.044%
261	12.850	12.840	12.870	VV	4749	58842	1.56%	0.041%
262	12.892	12.870	12.921	VV	16861	226658	5.99%	0.159%
263	12.943	12.921	12.958	VV	13435	186983	4.94%	0.131%
264	12.995	12.958	13.030	VV	193222	2556982	67.61%	1.792%
265	13.060	13.030	13.107	VV	157315	1807797	47.80%	1.267%
266	13.120	13.107	13.139	VV	1739	21881	0.58%	0.015%
267	13.158	13.139	13.170	VV	2151	25730	0.68%	0.018%
268	13.195	13.170	13.231	VV	24585	351397	9.29%	0.246%
269	13.246	13.231	13.257	VV	6660	81579	2.16%	0.057%
270	13.269	13.257	13.280	VV	5633	76503	2.02%	0.054%
271	13.300	13.280	13.331	VV	13328	200582	5.30%	0.141%
272	13.361	13.331	13.383	VV	193790	2172295	57.44%	1.522%
273	13.412	13.383	13.430	VV	14964	264967	7.01%	0.186%
274	13.445	13.430	13.480	VV	12735	169827	4.49%	0.119%
275	13.497	13.480	13.512	VV	2838	36072	0.95%	0.025%
276	13.531	13.512	13.544	VV	5477	68333	1.81%	0.048%
277	13.557	13.544	13.584	VV	5346	71592	1.89%	0.050%
278	13.626	13.584	13.645	VV	7576	135400	3.58%	0.095%
279	13.661	13.645	13.674	VV	3144	45770	1.21%	0.032%
280	13.695	13.674	13.718	VV	5243	90732	2.40%	0.064%
281	13.756	13.718	13.771	VV	5696	119951	3.17%	0.084%
282	13.783	13.771	13.797	VV	4800	62042	1.64%	0.043%
283	13.819	13.797	13.829	VV	15092	190847	5.05%	0.134%
284	13.838	13.829	13.893	VV	16386	277860	7.35%	0.195%
285	13.948	13.893	13.980	VV	37540	668832	17.69%	0.469%
286	13.983	13.980	13.999	VV	5101	50625	1.34%	0.035%
287	14.014	13.999	14.034	VV	4692	77530	2.05%	0.054%
288	14.056	14.034	14.078	VV	22101	311346	8.23%	0.218%
289	14.097	14.078	14.126	VV	20949	283908	7.51%	0.199%
290	14.142	14.126	14.159	VV	4824	74148	1.96%	0.052%
291	14.197	14.159	14.220	VV	184489	2445152	64.66%	1.713%
292	14.227	14.220	14.247	VV	23836	252271	6.67%	0.177%
293	14.267	14.247	14.299	VV	21581	294254	7.78%	0.206%
294	14.302	14.299	14.310	VV	1913	11918	0.32%	0.008%
295	14.338	14.310	14.363	VV	6820	133860	3.54%	0.094%
296	14.379	14.363	14.397	VV	3364	51086	1.35%	0.036%
297	14.406	14.397	14.426	VV	3169	41430	1.10%	0.029%
298	14.432	14.426	14.445	VV	1863	19579	0.52%	0.014%
299	14.454	14.445	14.468	VV	1833	20408	0.54%	0.014%

300	14.481	14.468	14.491	VV	1651	18663	0.49%	0.013%
301	14.504	14.491	14.517	VV	1305	18743		
302	14.537	14.517	14.554	VV	2230	39253		
303	14.564	14.554	14.569	VV	2145	18037		
304	14.589	14.569	14.610	VV	5092	84011		
305	14.652	14.610	14.668	VV	7613	180693		
306	14.686	14.668	14.728	VV	14645	254029	6.72%	0.178%
307	14.762	14.728	14.780	VV	8534	171884	4.54%	0.120%
308	14.790	14.780	14.807	VV	6402	82626	2.18%	0.058%
309	14.811	14.807	14.831	VV	3323	41765	1.10%	0.029%
310	14.868	14.831	14.906	VV	12265	344191	9.10%	0.241%
311	14.930	14.906	14.953	VV	39499	548799	14.51%	0.385%
312	14.987	14.953	15.026	VV	14621	292760	7.74%	0.205%
313	15.051	15.026	15.070	VV	4985	86413	2.28%	0.061%
314	15.100	15.070	15.156	VV	100997	1466522	38.78%	1.028%
315	15.159	15.156	15.170	VV	1250	8368	0.22%	0.006%
316	15.196	15.170	15.217	VV	33640	399949	10.58%	0.280%
317	15.244	15.217	15.263	VV	97781	1188943	31.44%	0.833%
318	15.305	15.263	15.334	VV	172085	3396771	89.82%	2.380%
319	15.347	15.334	15.368	VV	6000	83271	2.20%	0.058%
320	15.401	15.368	15.457	VV	48143	756866	20.01%	0.530%
321	15.478	15.457	15.518	VV	6803	121087	3.20%	0.085%
322	15.546	15.518	15.570	PV	7468	144008	3.81%	0.101%
323	15.598	15.570	15.622	VV	6442	138354	3.66%	0.097%
324	15.637	15.622	15.659	VV	1896	37213	0.98%	0.026%
325	15.689	15.659	15.746	VV	48459	842573	22.28%	0.590%
326	15.765	15.746	15.780	VV	1730	26440	0.70%	0.019%
327	15.784	15.780	15.789	VV	1250	5810	0.15%	0.004%
328	15.825	15.789	15.855	VV	8085	168517	4.46%	0.118%
329	15.917	15.855	15.939	VV	24163	530195	14.02%	0.371%
330	15.956	15.939	15.982	VV	9758	140648	3.72%	0.099%
331	16.002	15.982	16.022	VV	8386	125406	3.32%	0.088%
332	16.077	16.022	16.111	VV	24451	614746	16.26%	0.431%
333	16.157	16.111	16.189	VV	9737	196834	5.20%	0.138%
334	16.204	16.189	16.223	VV	2628	40132	1.06%	0.028%
335	16.241	16.223	16.256	VV	6830	91786	2.43%	0.064%
336	16.275	16.256	16.294	VV	6465	114015	3.01%	0.080%
337	16.330	16.294	16.381	VV	167238	2299187	60.80%	1.611%
338	16.393	16.381	16.400	VV	1071	9768	0.26%	0.007%
339	16.417	16.400	16.433	VV	1781	24718	0.65%	0.017%
340	16.446	16.433	16.475	VV	2698	35819	0.95%	0.025%
341	16.480	16.475	16.484	VV	545	2378	0.06%	0.002%
342	16.532	16.484	16.548	VV	5414	103495	2.74%	0.073%
343	16.555	16.548	16.571	VV	2253	20643	0.55%	0.014%
344	16.593	16.571	16.607	PV	3657	50334	1.33%	0.035%
345	16.627	16.607	16.634	VV	5256	64535	1.71%	0.045%
346	16.638	16.634	16.671	VV	4413	71827	1.90%	0.050%
347	16.710	16.671	16.720	VV	11295	199147	5.27%	0.140%
348	16.732	16.720	16.759	VV	12299	170190	4.50%	0.119%
349	16.809	16.759	16.827	PV	127969	1857791	49.12%	1.302%
350	16.836	16.827	16.870	VV	53444	555444	14.69%	0.389%
351	16.897	16.870	16.913	VV	4412	73877	1.95%	0.052%

Instrument :

FID_F

ClientSampleId :

WC-URBAN-FILL-B2MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025

Supervised By :mohammad ahmed 07/16/2025

							Instrument : FID_F	
							ClientSampleId : WC-URBAN-FILL-B2MS	
rteres							10.16% 0.269%	
352	16.937	16.913	16.960	VV	29150	384359	Manual IntegrationsAPPROVED	
353	16.977	16.960	16.991	VV	4130	61010		
354	16.998	16.991	17.021	VV	2957	34662		
355	17.058	17.021	17.071	VV	3402	54454		
							Reviewed By :Yogesh Patel 07/15/2025	
							Supervised By :mohammad ahmed 07/16/2025	
356	17.132	17.071	17.159	VV	114714	1827243	48.91%	1.747%
357	17.190	17.159	17.232	VV	116364	1416149	37.13%	0.086%
358	17.282	17.232	17.318	PV	175203	2492659	65.91%	1.747%
359	17.351	17.318	17.375	VV	6548	122384	3.24%	0.086%
360	17.432	17.375	17.475	VV	8094	230377	6.09%	0.161%
361	17.492	17.475	17.510	VV	3570	40962	1.08%	0.029%
362	17.556	17.510	17.619	PV	15749	496510	13.13%	0.348%
363	17.653	17.619	17.666	VV	9446	161694	4.28%	0.113%
364	17.688	17.666	17.702	VV	12420	220373	5.83%	0.154%
365	17.718	17.702	17.754	VV	11789	251721	6.66%	0.176%
366	17.775	17.754	17.791	VV	6356	88773	2.35%	0.062%
367	17.805	17.791	17.823	VV	4023	57753	1.53%	0.040%
368	17.847	17.823	17.869	VV	23233	318502	8.42%	0.223%
369	17.888	17.869	17.926	VV	9048	168616	4.46%	0.118%
370	17.965	17.926	18.004	VV	4151	106198	2.81%	0.074%
371	18.008	18.004	18.012	VV	476	1169	0.03%	0.001%
372	18.037	18.012	18.050	VV	1518	19776	0.52%	0.014%
373	18.063	18.050	18.081	VV	2320	27800	0.74%	0.019%
374	18.113	18.081	18.134	PV	4383	94446	2.50%	0.066%
375	18.173	18.134	18.223	VV	158561	2370320	62.68%	1.661%
376	18.284	18.223	18.305	VV	9483	277075	7.33%	0.194%
377	18.330	18.305	18.370	VV	10499	262809	6.95%	0.184%
378	18.380	18.370	18.387	VV	4622	44606	1.18%	0.031%
379	18.411	18.387	18.440	VV	15388	260893	6.90%	0.183%
380	18.470	18.440	18.514	VV	27300	515721	13.64%	0.361%
381	18.565	18.514	18.586	VV	99541	1717433	45.41%	1.203%
382	18.599	18.586	18.629	VV	23945	397617	10.51%	0.279%
383	18.645	18.629	18.671	VV	7587	121117	3.20%	0.085%
384	18.694	18.671	18.710	VV	22638	303787	8.03%	0.213%
385	18.730	18.710	18.760	VV	26866	494763	13.08%	0.347%
386	18.764	18.760	18.790	VV	8433	101200	2.68%	0.071%
387	18.823	18.790	18.848	VV	134814	1781914	47.12%	1.249%
388	18.858	18.848	18.873	VV	5999	78699	2.08%	0.055%
389	18.901	18.873	18.923	VV	11376	240956	6.37%	0.169%
390	18.948	18.923	18.973	VV	24283	420043	11.11%	0.294%
391	19.009	18.973	19.058	VV	146238	2407977	63.67%	1.687%
392	19.075	19.058	19.080	VV	8053	103460	2.74%	0.072%
393	19.125	19.080	19.148	VV	14185	434187	11.48%	0.304%
394	19.155	19.148	19.167	VV	9854	110904	2.93%	0.078%
395	19.173	19.167	19.177	VV	9651	58690	1.55%	0.041%
396	19.181	19.177	19.192	VV	9517	81371	2.15%	0.057%
397	19.224	19.192	19.235	VV	15362	312522	8.26%	0.219%
398	19.250	19.235	19.272	VV	17463	326537	8.63%	0.229%
399	19.295	19.272	19.311	VV	15210	299282	7.91%	0.210%
400	19.332	19.311	19.346	VV	19445	321246	8.49%	0.225%
401	19.370	19.346	19.393	VV	31959	725686	19.19%	0.508%
402	19.411	19.393	19.454	VV	31851	840462	22.22%	0.589%
403	19.458	19.454	19.464	VV	15070	89264	2.36%	0.063%
404	19.495	19.464	19.526	VV	27682	801123	21.18%	0.561%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025
Supervised By :mohammad ahmed 07/16/2025

405	19.532	19.526	19.559	VV	20251	364517	9.64%	0.255%
406	19.571	19.559	19.586	VV	16813	269928		
407	19.609	19.586	19.633	VV	19673	469681	12.30%	0.326%
408	19.656	19.633	19.660	VV	15927	250258	6.01%	0.159%
409	19.669	19.660	19.688	VV	16249	262801	6.01%	0.159%
410	19.707	19.688	19.728	VV	16861	361977	9.64%	0.255%
411	19.731	19.728	19.735	VV	13914	62332	1.65%	0.044%
412	19.797	19.735	19.825	VV	149014	2708365	71.62%	1.898%
413	19.833	19.825	19.845	VV	19696	220086	5.82%	0.154%
414	19.871	19.845	19.882	VV	21688	465219	12.30%	0.326%
415	19.910	19.882	19.938	VV	26749	765777	20.25%	0.537%
416	19.977	19.938	20.003	VV	57315	1393026	36.83%	0.976%
417	20.045	20.003	20.073	VV	54813	1580180	41.78%	1.107%
418	20.093	20.073	20.108	VV	34061	691426	18.28%	0.484%
419	20.133	20.108	20.149	VV	40919	896954	23.72%	0.628%
420	20.169	20.149	20.211	VV	50565	1352623	35.77%	0.948%
421	20.261	20.211	20.298	VV	37894	1568712	41.48%	1.099%
422	20.356	20.298	20.382	VV	78916	2664925	70.47%	1.867%
423	20.421	20.382	20.466	VV	53501	2323650	61.44%	1.628%
424	20.496	20.466	20.507	VV	49512	1115911	29.51%	0.782%
425	20.537	20.507	20.589	VV	151872	3712452	98.17%	2.601%
426	20.619	20.589	20.624	VV	44951	896540	23.71%	0.628%
427	20.630	20.624	20.638	VV	44847	374509	9.90%	0.262%
428	20.652	20.638	20.665	VV	44567	703357	18.60%	0.493%
429	20.701	20.665	20.719	VV	52688	1565691	41.40%	1.097%
430	20.734	20.719	20.754	VV	47613	961109	25.41%	0.673%
431	20.776	20.754	20.781	VV	47319	758836	20.07%	0.532%
432	20.797	20.781	20.821	VV	46804	1095759	28.97%	0.768%
433	20.837	20.821	20.852	VV	45455	817032	21.60%	0.572%
434	20.900	20.852	20.935	VV	54921	2368587	62.63%	1.660%
435	20.958	20.935	20.987	VV	43786	1303043	34.46%	0.913%
436	21.003	20.987	21.032	VV	41559	1060368	28.04%	0.743%
437	21.050	21.032	21.077	VV	35701	913624	24.16%	0.640%
438	21.085	21.077	21.103	VV	32934	514202	13.60%	0.360%
439	21.157	21.103	21.178	VV	38026	1595032	42.18%	1.118%
440	21.196	21.178	21.202	VV	35142	501498	13.26%	0.351%
441	21.204	21.202	21.225	VV	34793	458130	12.11%	0.321%
442	21.235	21.225	21.245	VV	33441	401777	10.62%	0.282%
443	21.305	21.245	21.367	VV	113868	3781840	100.00%	2.650%
444	21.388	21.367	21.471	VV	31270	1744308	46.12%	1.222%
445	21.691	21.659	21.704	VV	22115	579086	15.31%	0.406%
446	21.718	21.704	21.727	VV	22758	300391	7.94%	0.210%
447	21.820	21.810	21.876	VV	22468	759508	20.08%	0.532%
448	21.884	21.876	21.894	VV	15783	167373	4.43%	0.117%
449	21.903	21.894	21.919	VV	15615	227368	6.01%	0.159%
450	22.002	21.982	22.046	VV	15555	519742	13.74%	0.364%
451	22.097	22.046	22.124	VV	15053	572685	15.14%	0.401%
452	22.188	22.124	22.213	VV	17233	747738	19.77%	0.524%
453	22.268	22.213	22.389	VV	70958	2611810	69.06%	1.830%
454	22.397	22.389	22.435	VV	4200	70855	1.87%	0.050%
455	22.442	22.435	22.451	VBA	921	59591	1.58%	0.042%

Sum of corrected areas: 142721701

Instrument :

FID_F

ClientSampleId :

WC-URBAN-FILL-B2MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025

Supervised By :mohammad ahmed 07/16/2025

rteres

FF071025.M Tue Jul 15 01:45:02 2025

Instrument :
FID_F
ClientSampleId :
WC-URBAN-FILL-B2MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025
Supervised By :mohammad ahmed 07/16/2025

Report of Analysis

Client:	ENTACT	Date Collected:	07/10/25
Project:	540 Degraw St, Brooklyn, NY - E9309	Date Received:	07/10/25
Client Sample ID:	WC-URBAN-FILL-B2MSD	SDG No.:	Q2580
Lab Sample ID:	Q2580-02MSD	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	94.5
Sample Wt/Vol:	30.08	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
FF016157.D	1	07/14/25 09:40	07/14/25 17:19	PB168834

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	46.3		0.41	2.99	mg/Kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	14.6		37 - 130	73%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
 Data File : FF016157.D
 Signal(s) : FID2B.ch
 Acq On : 14 Jul 2025 17:19
 Operator : YP\AJ
 Sample : Q2580-02MSD
 Misc :
 ALS Vial : 76 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 WC-URBAN-FILL-B2MSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/15/2025
 Supervised By :mohammad ahmed 07/16/2025

Integration File: autoint1.e
 Quant Time: Jul 15 00:48:45 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
 Quant Title :
 QLast Update : Thu Jul 10 12:51:11 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S TETRACOSANE-d50 (SURR...	15.099	1419190	14.575 ug/ml
Target Compounds			
1) N-OCTANE	2.069	2202362	17.656 ug/ml
2) N-DECANE	4.612	2395184	19.246 ug/ml
3) N-DODECANE	6.790	2469391	20.265 ug/ml
4) N-TETRADECANE	8.624	2439227	20.290 ug/mlm
5) N-HEXADECANE	10.235	2269723	19.512 ug/ml
6) N-OCTADECANE	11.682	2380814	20.488 ug/ml
7) N-EICOSANE	12.995	2481244	21.216 ug/ml
8) N-DOCOSANE	14.197	2335360	20.828 ug/ml
10) N-TETRACOSANE	15.303	3314861	29.888 ug/ml
11) N-HEXACOSANE	16.328	2209717	20.579 ug/ml
12) N-OCTACOSANE	17.281	2471046	22.979 ug/mlm
13) N-TRIACONTANE	18.173	2289132	21.135 ug/ml
14) N-DOTRIACONTANE	19.008	2123410	20.249 ug/mlm
15) N-TETRATRIACONTANE	19.795	1859213	19.379 ug/ml
16) N-HEXATRIACONTANE	20.538	1574849	18.878 ug/ml
17) N-OCTATRIACONTANE	21.304	1570062	21.319 ug/mlm
18) N-TETRACONTANE	22.268	1376330	20.235 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF071425\
Data File : FF016157.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 17:19
Operator : YP\AJ
Sample : Q2580-02MSD
Misc :
ALS Vial : 76 Sample Multiplier: 1

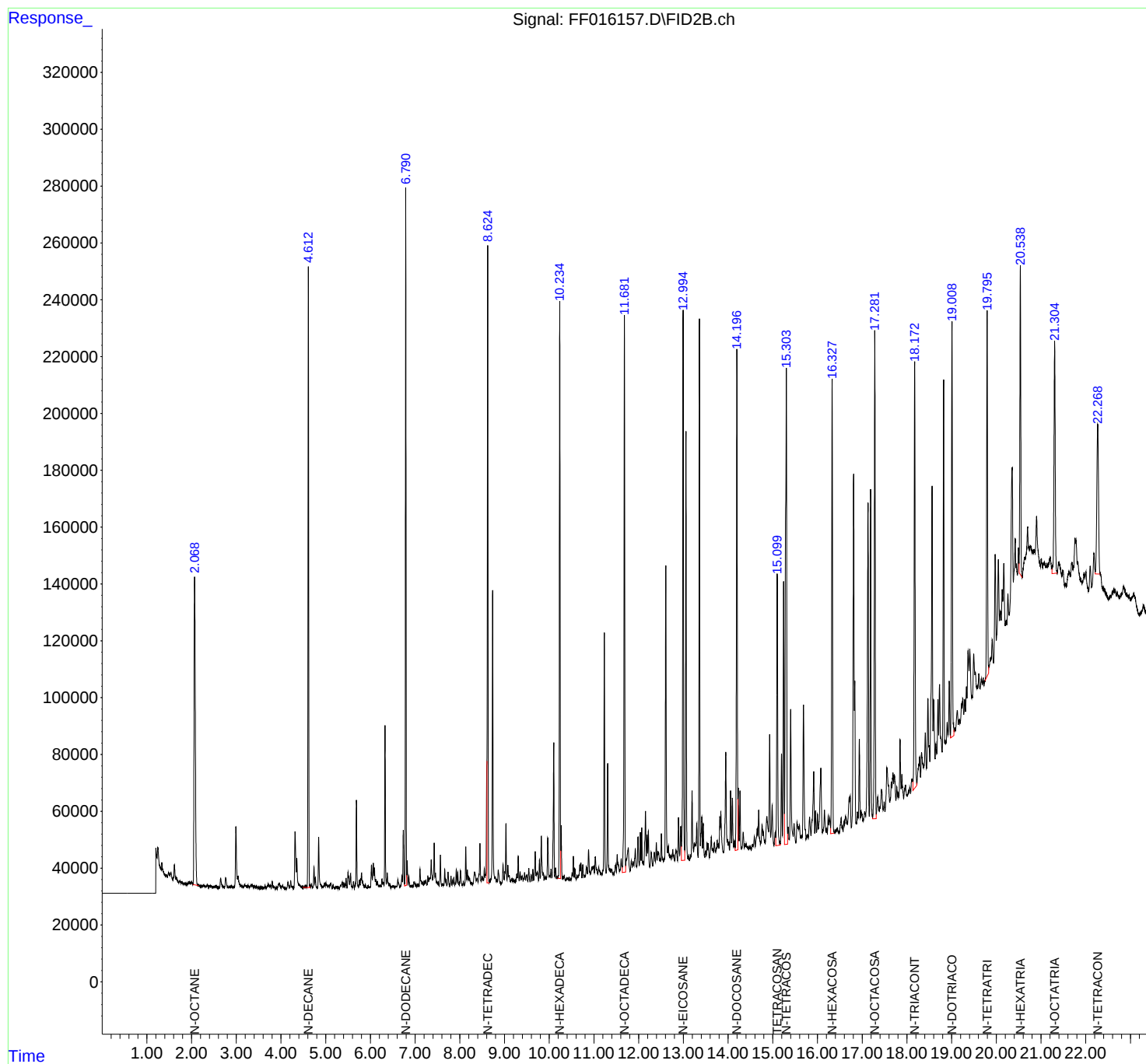
Instrument :
FID_F
ClientSampleId :
WC-URBAN-FILL-B2MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/15/2025
Supervised By :mohammad ahmed 07/16/2025

Integration File: autoint1.e
Quant Time: Jul 15 00:48:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Quant Title :
QLast Update : Thu Jul 10 12:51:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_F

ClientSampleId :

WC-URBAN-FILL-B2MSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025

Supervised By :mohammad ahmed 07/16/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF07142
Data File : FF016157.D
Signal(s) : FID2B.ch
Acq On : 14 Jul 2025 17:19
Sample : Q2580-02MSD
Misc :
ALS Vial : 76 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF071025.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.835	1.812	1.856	BV	211	1892	0.06%	0.001%
2	1.868	1.856	1.879	VV	206	1877	0.06%	0.001%
3	1.894	1.879	1.911	PV	261	4101	0.12%	0.003%
4	1.945	1.911	1.968	VV	958	20160	0.59%	0.014%
5	1.999	1.968	2.032	VV	1051	28423	0.84%	0.020%
6	2.069	2.032	2.210	VV	108674	2225187	65.65%	1.570%
7	2.213	2.210	2.220	PV	162	497	0.01%	0.000%
8	2.229	2.220	2.240	VV	147	1083	0.03%	0.001%
9	2.256	2.240	2.303	VV	501	10094	0.30%	0.007%
10	2.307	2.303	2.329	VV	179	2034	0.06%	0.001%
11	2.352	2.329	2.383	VV	952	13939	0.41%	0.010%
12	2.401	2.383	2.474	VV	478	13370	0.39%	0.009%
13	2.511	2.474	2.530	PV	286	6159	0.18%	0.004%
14	2.550	2.530	2.574	VV	713	11953	0.35%	0.008%
15	2.577	2.574	2.604	VV	271	2890	0.09%	0.002%
16	2.607	2.604	2.612	VV	134	388	0.01%	0.000%
17	2.616	2.612	2.624	VV	101	465	0.01%	0.000%
18	2.651	2.624	2.731	PV	3416	72608	2.14%	0.051%
19	2.764	2.731	2.825	VV	3410	70388	2.08%	0.050%
20	2.851	2.825	2.868	VV	471	8281	0.24%	0.006%
21	2.882	2.868	2.905	VV	584	10362	0.31%	0.007%
22	2.909	2.905	2.939	VV	403	6264	0.18%	0.004%
23	2.991	2.939	3.026	VV	21585	355512	10.49%	0.251%
24	3.040	3.026	3.103	VV	4008	97398	2.87%	0.069%
25	3.107	3.103	3.150	VV	778	18016	0.53%	0.013%
26	3.153	3.150	3.168	VV	545	5570	0.16%	0.004%
27	3.190	3.168	3.206	VV	1117	19638	0.58%	0.014%
28	3.208	3.206	3.231	VV	908	11031	0.33%	0.008%
29	3.235	3.231	3.245	VV	672	5239	0.15%	0.004%
30	3.265	3.245	3.297	VV	870	19259	0.57%	0.014%
31	3.328	3.297	3.348	VV	1056	22848	0.67%	0.016%
32	3.353	3.348	3.403	VV	1089	23737	0.70%	0.017%
33	3.409	3.403	3.445	VV	620	12105	0.36%	0.009%
34	3.463	3.445	3.503	VV	571	11764	0.35%	0.008%
35	3.542	3.503	3.581	VV	277	8632	0.25%	0.006%
36	3.599	3.581	3.615	VV	347	4504	0.13%	0.003%

					rters			
37	3.618	3.615	3.623	VV	182	670	0.02%	0.000%
38	3.641	3.623	3.666	VV	825	10564		
39	3.716	3.666	3.730	VV	1556	32511		
40	3.735	3.730	3.752	VV	1163	12858		
41	3.764	3.752	3.785	VV	1016	15214		
42	3.804	3.785	3.828	VV	2536	35476		
43	3.837	3.828	3.884	VV	720	11137	0.33%	0.008%
44	3.887	3.884	3.905	VV	128	1132	0.03%	0.001%
45	3.943	3.905	3.955	VV	1676	23749	0.70%	0.017%
46	3.965	3.955	4.002	VV	1875	30090	0.89%	0.021%
47	4.018	4.002	4.026	VV	852	9923	0.29%	0.007%
48	4.038	4.026	4.099	VV	1017	16687	0.49%	0.012%
49	4.122	4.099	4.130	PV	179	2107	0.06%	0.001%
50	4.155	4.130	4.198	VV	2254	44417	1.31%	0.031%
51	4.219	4.198	4.248	VV	2749	38468	1.13%	0.027%
52	4.257	4.248	4.284	VV	696	9724	0.29%	0.007%
53	4.315	4.284	4.341	VV	20053	326191	9.62%	0.230%
54	4.354	4.341	4.399	VV	10657	165010	4.87%	0.116%
55	4.408	4.399	4.470	VV	1426	40971	1.21%	0.029%
56	4.473	4.470	4.491	VV	555	6454	0.19%	0.005%
57	4.512	4.491	4.516	VV	525	7059	0.21%	0.005%
58	4.531	4.516	4.536	VV	697	7318	0.22%	0.005%
59	4.541	4.536	4.545	VV	826	3817	0.11%	0.003%
60	4.558	4.545	4.580	VV	826	13427	0.40%	0.009%
61	4.612	4.580	4.641	VV	218853	2400818	70.83%	1.694%
62	4.652	4.641	4.667	VV	1411	16186	0.48%	0.011%
63	4.683	4.667	4.704	VV	1458	20294	0.60%	0.014%
64	4.739	4.704	4.756	VV	7626	97136	2.87%	0.069%
65	4.770	4.756	4.819	VV	3929	53396	1.58%	0.038%
66	4.843	4.819	4.937	VV	18103	269142	7.94%	0.190%
67	4.974	4.937	4.988	VV	2005	34400	1.01%	0.024%
68	5.004	4.988	5.045	VV	2092	44552	1.31%	0.031%
69	5.071	5.045	5.087	VV	1154	22449	0.66%	0.016%
70	5.117	5.087	5.148	VV	1790	37916	1.12%	0.027%
71	5.166	5.148	5.187	VV	1123	15535	0.46%	0.011%
72	5.191	5.187	5.212	VV	349	2955	0.09%	0.002%
73	5.225	5.212	5.231	VV	574	4288	0.13%	0.003%
74	5.238	5.231	5.251	VV	558	5370	0.16%	0.004%
75	5.264	5.251	5.283	VV	480	6043	0.18%	0.004%
76	5.297	5.283	5.307	PV	239	2197	0.06%	0.002%
77	5.331	5.307	5.345	VV	1230	17163	0.51%	0.012%
78	5.372	5.345	5.389	VV	2375	38261	1.13%	0.027%
79	5.406	5.389	5.422	VV	2098	25020	0.74%	0.018%
80	5.435	5.422	5.440	VV	1245	10787	0.32%	0.008%
81	5.456	5.440	5.478	VV	3574	40799	1.20%	0.029%
82	5.500	5.478	5.515	VV	5773	70090	2.07%	0.049%
83	5.516	5.515	5.534	VV	3927	31444	0.93%	0.022%
84	5.557	5.534	5.602	VV	5325	82325	2.43%	0.058%
85	5.620	5.602	5.642	VV	2395	27797	0.82%	0.020%
86	5.663	5.642	5.668	VV	1759	16318	0.48%	0.012%
87	5.688	5.668	5.737	VV	31053	340892	10.06%	0.241%
88	5.756	5.737	5.770	VV	2861	34518	1.02%	0.024%
89	5.785	5.770	5.790	VV	3198	30223	0.89%	0.021%

Instrument :

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ClientSampleId :

WC-URBAN-FILL-B2MSD

Manual IntegrationsAPPROVED

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90	5.802	5.790	5.818	VV	5394	61961	1.83%	0.044%
91	5.828	5.818	5.876	VV	2476	42178		
92	5.888	5.876	5.930	VV	1210	15601		
93	5.948	5.930	5.968	VV	883	10845		
94	5.983	5.968	5.997	VV	489	6747		
95	6.024	5.997	6.045	VV	8248	119795		
96	6.065	6.045	6.080	VV	8853	131895	3.89%	0.093%
97	6.091	6.080	6.110	VV	7163	85999	2.54%	0.061%
98	6.121	6.110	6.138	VV	3059	37435	1.10%	0.026%
99	6.153	6.138	6.189	VV	2190	43157	1.27%	0.030%
100	6.195	6.189	6.213	VV	873	10467	0.31%	0.007%
101	6.223	6.213	6.239	VV	984	11974	0.35%	0.008%
102	6.258	6.239	6.274	VV	3246	40210	1.19%	0.028%
103	6.289	6.274	6.304	VV	1958	30128	0.89%	0.021%
104	6.327	6.304	6.359	VV	57166	580536	17.13%	0.410%
105	6.377	6.359	6.419	VV	5241	87714	2.59%	0.062%
106	6.431	6.419	6.457	VV	1642	21501	0.63%	0.015%
107	6.474	6.457	6.486	VV	548	6454	0.19%	0.005%
108	6.501	6.486	6.516	VV	751	9397	0.28%	0.007%
109	6.520	6.516	6.540	VV	508	5032	0.15%	0.004%
110	6.556	6.540	6.570	PV	632	6789	0.20%	0.005%
111	6.585	6.570	6.591	VV	594	6681	0.20%	0.005%
112	6.613	6.591	6.657	VV	2933	54929	1.62%	0.039%
113	6.704	6.657	6.717	VV	4229	59972	1.77%	0.042%
114	6.735	6.717	6.764	VV	20262	231793	6.84%	0.164%
115	6.790	6.764	6.812	VV	246038	2488979	73.43%	1.756%
116	6.822	6.812	6.842	VV	9450	93647	2.76%	0.066%
117	6.859	6.842	6.897	VV	4109	55572	1.64%	0.039%
118	6.912	6.897	6.925	VV	372	4754	0.14%	0.003%
119	6.943	6.925	6.958	VV	549	6573	0.19%	0.005%
120	6.974	6.958	7.005	VV	1938	32886	0.97%	0.023%
121	7.017	7.005	7.030	VV	921	9357	0.28%	0.007%
122	7.054	7.030	7.064	VV	605	9926	0.29%	0.007%
123	7.073	7.064	7.087	VV	637	6268	0.18%	0.004%
124	7.109	7.087	7.150	VV	6384	103731	3.06%	0.073%
125	7.162	7.150	7.186	VV	1850	26335	0.78%	0.019%
126	7.201	7.186	7.216	VV	1953	26673	0.79%	0.019%
127	7.232	7.216	7.265	VV	2077	45005	1.33%	0.032%
128	7.285	7.265	7.303	VV	3776	51461	1.52%	0.036%
129	7.323	7.303	7.338	VV	3059	55652	1.64%	0.039%
130	7.360	7.338	7.397	VV	9496	172129	5.08%	0.121%
131	7.427	7.397	7.444	VV	15295	207016	6.11%	0.146%
132	7.455	7.444	7.480	VV	4851	65428	1.93%	0.046%
133	7.492	7.480	7.506	VV	1485	18732	0.55%	0.013%
134	7.516	7.506	7.534	VV	1089	14178	0.42%	0.010%
135	7.565	7.534	7.592	VV	11036	125122	3.69%	0.088%
136	7.606	7.592	7.624	VV	780	9115	0.27%	0.006%
137	7.632	7.624	7.643	VV	600	4632	0.14%	0.003%
138	7.662	7.643	7.678	VV	5925	61266	1.81%	0.043%
139	7.687	7.678	7.710	VV	2386	26560	0.78%	0.019%
140	7.736	7.710	7.765	VV	4941	70765	2.09%	0.050%
141	7.776	7.765	7.783	VV	447	3612	0.11%	0.003%

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Manual IntegrationsAPPROVED

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					riteres			
142	7.802	7.783	7.824	VV	3506	38848	1.15%	0.027%
143	7.838	7.824	7.852	VV	2049	20128		
144	7.866	7.852	7.886	VV	2852	31070		
145	7.921	7.886	7.937	VV	5668	67760		
146	7.953	7.937	7.972	VV	4739	52579		
147	7.982	7.972	7.993	VV	891	9496		
148	8.015	7.993	8.057	VV	5228	76201	2.25%	0.054%
149	8.081	8.057	8.096	VV	1312	14138	0.42%	0.010%
150	8.133	8.096	8.153	PV	13562	149925	4.42%	0.106%
151	8.169	8.153	8.187	VV	5454	71378	2.11%	0.050%
152	8.198	8.187	8.210	VV	3013	33835	1.00%	0.024%
153	8.220	8.210	8.238	VV	2458	28621	0.84%	0.020%
154	8.243	8.238	8.257	VV	892	7764	0.23%	0.005%
155	8.270	8.257	8.292	VV	670	8851	0.26%	0.006%
156	8.329	8.292	8.367	VV	4602	120422	3.55%	0.085%
157	8.385	8.367	8.408	VV	2380	44622	1.32%	0.031%
158	8.427	8.408	8.433	VV	3685	37878	1.12%	0.027%
159	8.450	8.433	8.479	VV	14533	179856	5.31%	0.127%
160	8.495	8.479	8.509	VV	2869	39016	1.15%	0.028%
161	8.516	8.509	8.532	VV	2112	25477	0.75%	0.018%
162	8.549	8.532	8.563	VV	5585	67618	1.99%	0.048%
163	8.624	8.563	8.656	VV	224578	2834781	83.64%	2.000%
164	8.668	8.656	8.678	VV	1268	13637	0.40%	0.010%
165	8.735	8.678	8.784	VV	103334	1225058	36.14%	0.864%
166	8.795	8.784	8.814	VV	2397	35415	1.04%	0.025%
167	8.827	8.814	8.844	VV	1615	20793	0.61%	0.015%
168	8.860	8.844	8.924	VV	5059	89246	2.63%	0.063%
169	8.967	8.924	8.993	PV	6833	98013	2.89%	0.069%
170	9.010	8.993	9.016	VV	4295	43247	1.28%	0.031%
171	9.033	9.016	9.055	VV	21218	225580	6.66%	0.159%
172	9.076	9.055	9.096	VV	6459	95007	2.80%	0.067%
173	9.106	9.096	9.136	VV	2942	43410	1.28%	0.031%
174	9.166	9.136	9.182	VV	1508	29834	0.88%	0.021%
175	9.196	9.182	9.219	VV	1571	22256	0.66%	0.016%
176	9.233	9.219	9.244	VV	1098	12061	0.36%	0.009%
177	9.275	9.244	9.287	VV	3210	47240	1.39%	0.033%
178	9.307	9.287	9.329	VV	9506	111843	3.30%	0.079%
179	9.349	9.329	9.373	VV	3841	58310	1.72%	0.041%
180	9.393	9.373	9.418	VV	2395	47071	1.39%	0.033%
181	9.449	9.418	9.469	VV	3547	58909	1.74%	0.042%
182	9.488	9.469	9.494	VV	2434	27408	0.81%	0.019%
183	9.503	9.494	9.520	VV	2641	27269	0.80%	0.019%
184	9.543	9.520	9.573	VV	5046	67853	2.00%	0.048%
185	9.595	9.573	9.615	VV	2532	37445	1.10%	0.026%
186	9.634	9.615	9.653	VV	4555	55725	1.64%	0.039%
187	9.687	9.653	9.706	VV	10856	148319	4.38%	0.105%
188	9.717	9.706	9.723	VV	3090	28808	0.85%	0.020%
189	9.735	9.723	9.762	VV	3545	57374	1.69%	0.040%
190	9.782	9.762	9.801	VV	7810	87801	2.59%	0.062%
191	9.823	9.801	9.855	VV	16054	235182	6.94%	0.166%
192	9.865	9.855	9.884	VV	3166	38344	1.13%	0.027%
193	9.902	9.884	9.919	VV	2017	28794	0.85%	0.020%
194	9.923	9.919	9.935	VV	1294	10907	0.32%	0.008%

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195	9.967	9.935	9.995	VV	15423	234626	6.92%	0.166%
196	10.006	9.995	10.022	VV	2230	29993		
197	10.040	10.022	10.059	VV	4388	61338		
198	10.101	10.059	10.124	VV	48816	636576	18.32%	0.166%
199	10.142	10.124	10.187	VV	4661	90165	2.75%	0.166%
200	10.203	10.187	10.208	VV	2010	19906	0.65%	0.166%
201	10.235	10.208	10.256	VV	203998	2288752	67.53%	1.615%
202	10.267	10.256	10.294	VV	19490	214267	6.32%	0.151%
203	10.311	10.294	10.317	VV	1294	14790	0.44%	0.010%
204	10.337	10.317	10.368	VV	1499	28088	0.83%	0.020%
205	10.398	10.368	10.435	VV	868	22092	0.65%	0.016%
206	10.448	10.435	10.467	VV	1121	11519	0.34%	0.008%
207	10.487	10.467	10.494	PV	503	4763	0.14%	0.003%
208	10.511	10.494	10.523	VV	2616	29137	0.86%	0.021%
209	10.539	10.523	10.558	VV	8370	93205	2.75%	0.066%
210	10.575	10.558	10.601	VV	3593	47850	1.41%	0.034%
211	10.623	10.601	10.640	VV	1563	19180	0.57%	0.014%
212	10.683	10.640	10.695	VV	5032	79062	2.33%	0.056%
213	10.709	10.695	10.731	VV	5664	71576	2.11%	0.051%
214	10.750	10.731	10.789	VV	4984	68778	2.03%	0.049%
215	10.830	10.789	10.856	VV	3790	80098	2.36%	0.057%
216	10.879	10.856	10.927	VV	9960	173849	5.13%	0.123%
217	10.949	10.927	10.961	VV	3639	53715	1.58%	0.038%
218	10.974	10.961	10.989	VV	3841	56647	1.67%	0.040%
219	10.995	10.989	11.009	VV	3550	34558	1.02%	0.024%
220	11.030	11.009	11.052	VV	7035	114630	3.38%	0.081%
221	11.059	11.052	11.087	VV	2635	40121	1.18%	0.028%
222	11.106	11.087	11.145	VV	3254	68007	2.01%	0.048%
223	11.154	11.145	11.182	VV	1136	17843	0.53%	0.013%
224	11.232	11.182	11.272	VV	85494	995947	29.38%	0.703%
225	11.307	11.272	11.347	VV	39255	483541	14.27%	0.341%
226	11.354	11.347	11.375	VV	1922	27515	0.81%	0.019%
227	11.399	11.375	11.425	VV	1923	34272	1.01%	0.024%
228	11.439	11.425	11.447	VV	298	2115	0.06%	0.001%
229	11.485	11.447	11.503	PV	3120	50013	1.48%	0.035%
230	11.520	11.503	11.535	VV	6778	79725	2.35%	0.056%
231	11.540	11.535	11.571	VV	3320	48060	1.42%	0.034%
232	11.609	11.571	11.632	VV	4861	89193	2.63%	0.063%
233	11.682	11.632	11.709	VV	195868	2384921	70.36%	1.683%
234	11.726	11.709	11.729	VV	4595	45547	1.34%	0.032%
235	11.767	11.729	11.807	VV	8487	220133	6.49%	0.155%
236	11.837	11.807	11.860	VV	3764	66785	1.97%	0.047%
237	11.876	11.860	11.895	VV	3260	53417	1.58%	0.038%
238	11.925	11.895	11.953	VV	7612	136400	4.02%	0.096%
239	11.986	11.953	12.015	VV	11687	184303	5.44%	0.130%
240	12.038	12.015	12.054	VV	13167	158691	4.68%	0.112%
241	12.069	12.054	12.089	VV	14751	167720	4.95%	0.118%
242	12.098	12.089	12.117	VV	2627	36956	1.09%	0.026%
243	12.153	12.117	12.171	VV	20339	334768	9.88%	0.236%
244	12.188	12.171	12.203	VV	11831	154619	4.56%	0.109%
245	12.217	12.203	12.249	VV	13234	172723	5.10%	0.122%
246	12.282	12.249	12.316	VV	5523	103873	3.06%	0.073%

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WC-URBAN-FILL-B2MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025

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rterres							WC-URBAN-FILL-B2	
247	12.350	12.316	12.376	VV	5185	110878	3.27%	0.078%
248	12.396	12.376	12.415	VV	8622	114558	3.27%	0.078%
249	12.431	12.415	12.471	VV	5338	135880	4.14%	0.0991%
250	12.474	12.471	12.488	VV	2125	20033	3.97%	0.095%
251	12.509	12.488	12.529	VV	11456	148843	4.14%	0.0991%
252	12.538	12.529	12.552	VV	2492	30227	0.81%	0.024%
253	12.571	12.552	12.579	VV	2329	34336	1.01%	0.024%
254	12.608	12.579	12.649	VV	105387	1404282	41.43%	0.991%
255	12.665	12.649	12.701	VV	6758	134444	3.97%	0.095%
256	12.714	12.701	12.725	VV	3013	39406	1.16%	0.028%
257	12.739	12.725	12.749	VV	3190	39828	1.18%	0.028%
258	12.763	12.749	12.780	VV	5084	71108	2.10%	0.050%
259	12.784	12.780	12.807	VV	2939	35100	1.04%	0.025%
260	12.832	12.807	12.842	VV	4712	66531	1.96%	0.047%
261	12.851	12.842	12.869	VV	4535	50412	1.49%	0.036%
262	12.892	12.869	12.918	VV	16123	218821	6.46%	0.154%
263	12.941	12.918	12.957	VV	12629	184256	5.44%	0.130%
264	12.995	12.957	13.033	VV	193918	2515809	74.23%	1.775%
265	13.059	13.033	13.099	VV	151521	1748630	51.59%	1.234%
266	13.120	13.099	13.139	VV	1647	27358	0.81%	0.019%
267	13.164	13.139	13.172	VV	2222	27104	0.80%	0.019%
268	13.195	13.172	13.229	VV	24715	339236	10.01%	0.239%
269	13.245	13.229	13.257	VV	6211	85151	2.51%	0.060%
270	13.267	13.257	13.279	VV	5753	70500	2.08%	0.050%
271	13.300	13.279	13.330	VV	12764	200187	5.91%	0.141%
272	13.360	13.330	13.382	VV	190237	2118390	62.50%	1.495%
273	13.412	13.382	13.429	VV	14885	260404	7.68%	0.184%
274	13.444	13.429	13.476	VV	12489	165617	4.89%	0.117%
275	13.496	13.476	13.512	VV	2626	36697	1.08%	0.026%
276	13.531	13.512	13.544	VV	5436	66140	1.95%	0.047%
277	13.557	13.544	13.586	VV	5240	67383	1.99%	0.048%
278	13.625	13.586	13.645	VV	7278	128842	3.80%	0.091%
279	13.656	13.645	13.672	VV	3031	42635	1.26%	0.030%
280	13.693	13.672	13.722	VV	5008	94236	2.78%	0.066%
281	13.756	13.722	13.769	VV	5718	104021	3.07%	0.073%
282	13.783	13.769	13.797	VV	4354	61678	1.82%	0.044%
283	13.817	13.797	13.828	VV	13746	179600	5.30%	0.127%
284	13.838	13.828	13.900	VV	15565	268745	7.93%	0.190%
285	13.948	13.900	13.979	VV	36182	636774	18.79%	0.449%
286	13.984	13.979	14.000	VV	5573	57987	1.71%	0.041%
287	14.017	14.000	14.033	VV	4506	67369	1.99%	0.048%
288	14.056	14.033	14.077	VV	22433	298767	8.81%	0.211%
289	14.096	14.077	14.125	VV	19671	272670	8.04%	0.192%
290	14.143	14.125	14.159	VV	4574	71782	2.12%	0.051%
291	14.197	14.159	14.219	VV	177400	2370061	69.93%	1.672%
292	14.227	14.219	14.248	VV	22929	250914	7.40%	0.177%
293	14.267	14.248	14.293	VV	21789	273732	8.08%	0.193%
294	14.298	14.293	14.302	VV	1576	8424	0.25%	0.006%
295	14.338	14.302	14.363	VV	6988	130176	3.84%	0.092%
296	14.378	14.363	14.396	VV	2876	44639	1.32%	0.031%
297	14.407	14.396	14.422	VV	2832	33506	0.99%	0.024%
298	14.427	14.422	14.442	VV	1649	17411	0.51%	0.012%
299	14.451	14.442	14.464	VV	1422	14635	0.43%	0.010%

300	14.482	14.464	14.496	VV	1434	21646	0.64%	0.015%
301	14.502	14.496	14.519	VV	1221	12001		
302	14.542	14.519	14.545	VV	2009	23131		
303	14.550	14.545	14.561	VV	1994	17314		
304	14.587	14.561	14.607	VV	4815	81911		
305	14.651	14.607	14.667	VV	7354	165278		
306	14.685	14.667	14.726	VV	13888	231233	6.82%	0.163%
307	14.759	14.726	14.777	VV	8097	154019	4.54%	0.109%
308	14.789	14.777	14.810	VV	6047	89963	2.65%	0.063%
309	14.814	14.810	14.824	VV	2591	21078	0.62%	0.015%
310	14.868	14.824	14.906	VV	11195	337934	9.97%	0.238%
311	14.930	14.906	14.953	VV	39741	534469	15.77%	0.377%
312	14.986	14.953	15.019	VV	14690	274649	8.10%	0.194%
313	15.052	15.019	15.068	VV	4960	85008	2.51%	0.060%
314	15.099	15.068	15.169	VV	95681	1434124	42.31%	1.012%
315	15.195	15.169	15.216	VV	32348	400093	11.80%	0.282%
316	15.242	15.216	15.262	VV	92628	1168665	34.48%	0.825%
317	15.303	15.262	15.332	VV	167742	3321176	97.99%	2.343%
318	15.345	15.332	15.367	VV	6092	86455	2.55%	0.061%
319	15.400	15.367	15.457	VV	47404	752589	22.20%	0.531%
320	15.477	15.457	15.514	VV	6993	119794	3.53%	0.085%
321	15.542	15.514	15.580	PV	7301	172680	5.09%	0.122%
322	15.596	15.580	15.619	VV	6036	102386	3.02%	0.072%
323	15.631	15.619	15.636	VV	1816	17972	0.53%	0.013%
324	15.641	15.636	15.654	VV	1741	18192	0.54%	0.013%
325	15.687	15.654	15.748	VV	47981	829411	24.47%	0.585%
326	15.763	15.748	15.786	VV	1849	30992	0.91%	0.022%
327	15.824	15.786	15.854	VV	8026	164865	4.86%	0.116%
328	15.916	15.854	15.938	VV	23684	514280	15.17%	0.363%
329	15.956	15.938	15.977	VV	9668	132408	3.91%	0.093%
330	16.001	15.977	16.021	VV	8400	127610	3.76%	0.090%
331	16.076	16.021	16.112	VV	24167	603165	17.80%	0.426%
332	16.156	16.112	16.188	VV	9148	189770	5.60%	0.134%
333	16.201	16.188	16.220	VV	2492	35539	1.05%	0.025%
334	16.240	16.220	16.255	VV	6893	88575	2.61%	0.062%
335	16.273	16.255	16.295	VV	6194	110165	3.25%	0.078%
336	16.328	16.295	16.376	VV	159993	2227718	65.73%	1.572%
337	16.387	16.376	16.392	VV	751	5401	0.16%	0.004%
338	16.396	16.392	16.400	VV	815	3348	0.10%	0.002%
339	16.417	16.400	16.430	VV	1535	18974	0.56%	0.013%
340	16.447	16.430	16.472	VV	1942	28037	0.83%	0.020%
341	16.477	16.472	16.487	PV	211	1529	0.05%	0.001%
342	16.531	16.487	16.547	VV	5138	90486	2.67%	0.064%
343	16.553	16.547	16.575	VV	1687	16426	0.48%	0.012%
344	16.593	16.575	16.606	PV	3372	42470	1.25%	0.030%
345	16.626	16.606	16.672	VV	5115	133370	3.93%	0.094%
346	16.708	16.672	16.720	VV	10982	196944	5.81%	0.139%
347	16.732	16.720	16.760	VV	11333	157847	4.66%	0.111%
348	16.808	16.760	16.826	PV	123709	1821516	53.74%	1.285%
349	16.834	16.826	16.869	VV	51113	548749	16.19%	0.387%
350	16.894	16.869	16.911	VV	4529	68840	2.03%	0.049%
351	16.937	16.911	16.960	VV	29781	385771	11.38%	0.272%

Instrument :

FID_F

ClientSampleId :

WC-URBAN-FILL-B2MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025

Supervised By :mohammad ahmed 07/16/2025

rteres									
352	16.973	16.960	16.989	VV	4059	57763	1.70%	0.041%	
353	16.997	16.989	17.019	VV	3059	35958			
354	17.056	17.019	17.075	VV	3528	67469			
355	17.131	17.075	17.158	VV	111465	1800582	53		
356	17.189	17.158	17.233	VV	115903	1396200	41		
357	17.282	17.233	17.314	PV	170512	2441910	72		
358	17.347	17.314	17.374	VV	6549	129858	3.83%	0.092%	
359	17.398	17.374	17.403	VV	2350	34274	1.01%	0.024%	
360	17.432	17.403	17.466	VV	8417	185707	5.48%	0.131%	
361	17.493	17.466	17.510	VV	3587	49001	1.45%	0.035%	
362	17.555	17.510	17.585	PV	14844	378904	11.18%	0.267%	
363	17.590	17.585	17.616	VV	8413	104831	3.09%	0.074%	
364	17.651	17.616	17.664	VV	8982	156566	4.62%	0.110%	
365	17.689	17.664	17.702	VV	11770	216047	6.37%	0.152%	
366	17.717	17.702	17.752	VV	10870	224669	6.63%	0.159%	
367	17.774	17.752	17.790	VV	5821	84466	2.49%	0.060%	
368	17.805	17.790	17.820	VV	3581	47941	1.41%	0.034%	
369	17.847	17.820	17.870	VV	21730	313057	9.24%	0.221%	
370	17.887	17.870	17.926	VV	9002	159952	4.72%	0.113%	
371	17.969	17.926	17.996	VV	4458	99172	2.93%	0.070%	
372	17.999	17.996	18.009	VV	538	2632	0.08%	0.002%	
373	18.033	18.009	18.047	PV	1592	20205	0.60%	0.014%	
374	18.063	18.047	18.081	VV	2499	30541	0.90%	0.022%	
375	18.107	18.081	18.114	PV	4568	52983	1.56%	0.037%	
376	18.118	18.114	18.136	VV	4274	49336	1.46%	0.035%	
377	18.173	18.136	18.221	VV	150668	2311813	68.21%	1.631%	
378	18.263	18.221	18.268	VV	7174	137232	4.05%	0.097%	
379	18.285	18.268	18.304	VV	9623	145445	4.29%	0.103%	
380	18.327	18.304	18.368	VV	10605	262976	7.76%	0.186%	
381	18.412	18.368	18.439	VV	16157	340442	10.04%	0.240%	
382	18.470	18.439	18.489	VV	27136	442347	13.05%	0.312%	
383	18.493	18.489	18.512	VV	10365	110142	3.25%	0.078%	
384	18.563	18.512	18.583	VV	100347	1704803	50.30%	1.203%	
385	18.599	18.583	18.629	VV	24732	432766	12.77%	0.305%	
386	18.647	18.629	18.669	VV	8411	147403	4.35%	0.104%	
387	18.695	18.669	18.709	VV	23270	341017	10.06%	0.241%	
388	18.729	18.709	18.787	VV	27925	618939	18.26%	0.437%	
389	18.822	18.787	18.848	VV	133604	1758278	51.88%	1.241%	
390	18.860	18.848	18.874	VV	5803	89690	2.65%	0.063%	
391	18.900	18.874	18.917	VV	11952	217210	6.41%	0.153%	
392	18.947	18.917	18.972	VV	25618	450576	13.29%	0.318%	
393	19.008	18.972	19.057	VV	151398	2389184	70.49%	1.686%	
394	19.074	19.057	19.086	VV	7231	114465	3.38%	0.081%	
395	19.127	19.086	19.152	VV	12557	376835	11.12%	0.266%	
396	19.170	19.152	19.192	VV	8620	189249	5.58%	0.134%	
397	19.225	19.192	19.232	VV	13248	249634	7.37%	0.176%	
398	19.248	19.232	19.271	VV	14802	289885	8.55%	0.205%	
399	19.293	19.271	19.311	VV	13620	265863	7.84%	0.188%	
400	19.332	19.311	19.344	VV	17611	278066	8.20%	0.196%	
401	19.369	19.344	19.390	VV	29535	666720	19.67%	0.470%	
402	19.407	19.390	19.445	VV	29572	722607	21.32%	0.510%	
403	19.455	19.445	19.463	VV	12406	126227	3.72%	0.089%	
404	19.495	19.463	19.523	VV	26416	710675	20.97%	0.501%	

Instrument :

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ClientSampleId :

WC-URBAN-FILL-B2MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025

Supervised By :mohammad ahmed 07/16/2025

					rters				
405	19.532	19.523	19.558	VV	19371	364632	10.76%	0.257%	
406	19.569	19.558	19.574	VV	13990	127987			
407	19.577	19.574	19.583	VV	13680	74740			
408	19.608	19.583	19.638	VV	17826	476575	14.76%	0.257%	
409	19.665	19.638	19.687	VV	15112	403544	11.76%	0.257%	
410	19.707	19.687	19.725	VV	14578	308868	9.76%	0.257%	
411	19.795	19.725	19.827	VV	142214	2680998	79.10%	1.892%	
412	19.835	19.827	19.844	VV	16918	167293	4.94%	0.118%	
413	19.866	19.844	19.869	VV	18749	275579	8.13%	0.194%	
414	19.874	19.869	19.882	VV	18846	138878	4.10%	0.098%	
415	19.910	19.882	19.939	VV	24893	701307	20.69%	0.495%	
416	19.974	19.939	20.001	VV	53873	1264451	37.31%	0.892%	
417	20.046	20.001	20.073	VV	50837	1523280	44.94%	1.075%	
418	20.090	20.073	20.110	VV	31931	675621	19.93%	0.477%	
419	20.131	20.110	20.146	VV	38970	737895	21.77%	0.521%	
420	20.168	20.146	20.199	VV	47516	1187075	35.02%	0.838%	
421	20.221	20.199	20.235	VV	26390	564980	16.67%	0.399%	
422	20.260	20.235	20.284	VV	35194	875040	25.82%	0.617%	
423	20.353	20.284	20.382	VV	78208	2879012	84.94%	2.031%	
424	20.423	20.382	20.440	VV	51960	1547952	45.67%	1.092%	
425	20.447	20.440	20.472	VV	42921	787632	23.24%	0.556%	
426	20.496	20.472	20.508	VV	47776	937960	27.67%	0.662%	
427	20.538	20.508	20.578	VV	146101	3131729	92.40%	2.210%	
428	20.629	20.578	20.643	VV	42330	1538871	45.40%	1.086%	
429	20.699	20.643	20.730	VV	51844	2381908	70.28%	1.681%	
430	20.735	20.730	20.749	VV	44022	492047	14.52%	0.347%	
431	20.771	20.749	20.799	VV	43961	1298802	38.32%	0.916%	
432	20.814	20.799	20.828	VV	41596	702299	20.72%	0.496%	
433	20.845	20.828	20.870	VV	41765	1029836	30.38%	0.727%	
434	20.901	20.870	20.987	VV	52304	2896192	85.45%	2.043%	
435	21.005	20.987	21.040	VV	35680	1084835	32.01%	0.765%	
436	21.062	21.040	21.070	VV	33481	590842	17.43%	0.417%	
437	21.081	21.070	21.116	VV	33098	877378	25.89%	0.619%	
438	21.134	21.116	21.152	VV	32187	686506	20.25%	0.484%	
439	21.201	21.152	21.244	VV	33165	1718594	50.70%	1.213%	
440	21.305	21.244	21.361	VV	107529	3389400	100.00%	2.391%	
441	21.391	21.361	21.409	VV	28333	780987	23.04%	0.551%	
442	21.416	21.409	21.466	VV	27247	847325	25.00%	0.598%	
443	21.494	21.466	21.533	VV	23933	863023	25.46%	0.609%	
444	21.543	21.533	21.551	VV	18074	193467	5.71%	0.137%	
445	21.558	21.551	21.570	VV	17866	198933	5.87%	0.140%	
446	21.622	21.570	21.656	VV	21399	1028023	30.33%	0.725%	
447	21.692	21.656	21.714	VV	23532	758059	22.37%	0.535%	
448	21.759	21.714	21.773	VV	30877	911916	26.90%	0.643%	
449	21.782	21.773	21.812	VV	29946	618583	18.25%	0.436%	
450	21.823	21.812	21.872	VV	21648	660789	19.50%	0.466%	
451	21.878	21.872	21.913	VV	14594	340026	10.03%	0.240%	
452	21.921	21.913	21.928	VV	12859	114628	3.38%	0.081%	
453	21.963	21.928	21.983	VV	15598	467087	13.78%	0.330%	
454	22.005	21.983	22.059	VV	15166	529516	15.62%	0.374%	
455	22.100	22.059	22.136	VV	15620	502840	14.84%	0.355%	
456	22.186	22.136	22.212	VV	18695	614249	18.12%	0.433%	

Instrument :
FID_F
ClientSampleId :
WC-URBAN-FILL-B2MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025
Supervised By :mohammad ahmed 07/16/2025

FID_F

ClientSampleId :

WC-URBAN-FILL-B2MSD

					rters		WC-URBAN-FILL-B2
457	22.268	22.212	22.319	VV	62922	2033205	59.99%
458	22.325	22.319	22.377	VV	9795	230373	6
459	22.382	22.377	22.417	VV	3425	65960	Manual Integrat
460	22.427	22.417	22.451	VBA	1998	76433	2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/15/2025
Supervised By :mohammad ahmed 07/16/2025

Sum of corrected areas: 1417

FF071025.M Tue Jul 15 01:19:13 2025

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
Q2473-04MS		FF016140.D	FF071025	N-OCTACOSANE	mohammad	7/11/2025 9:10:05 AM	Peak Integrated by Software incorrectly
Q2473-04MSD		FF016141.D	FF071025	N-HEXATRIACONTANE	mohammad	7/11/2025 9:10:05 AM	Peak Integrated by Software incorrectly
Q2473-04MSD		FF016141.D	FF071025	N-OCTACOSANE	mohammad	7/11/2025 9:10:05 AM	Peak Integrated by Software incorrectly
Q2486-01		FF016142.D	FF071025	TETRACOSANE-d50 (SURROGA	mohammad	7/11/2025 9:10:05 AM	Peak Integrated by Software incorrectly
.BLK		FF016144.D	FF071025	TETRACOSANE-d50 (SURROGA	mohammad	7/11/2025 9:10:05 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sample ID	ClientID ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
Q2589-01		FF016151.D	FF071425	TETRACOSANE-d50 (SURROGA	 	 	Peak Integrated by Software incorrectly
.BLK		FF016152.D	FF071425	TETRACOSANE-d50 (SURROGA	 	 	Peak Integrated by Software incorrectly
50 PPM TRPH STD		FF016153.D	FF071425	N-TETRACONTANE	 	 	Peak Integrated by Software incorrectly
PB168834BS		FF016155.D	FF071425	N-OCTATRIACONTANE	 	 	Peak Integrated by Software incorrectly
Q2580-02MS		FF016156.D	FF071425	N-DOTRIACONTANE	 	 	Peak Integrated by Software incorrectly
Q2580-02MS		FF016156.D	FF071425	N-OCTACOSANE	 	 	Peak Integrated by Software incorrectly
Q2580-02MS		FF016156.D	FF071425	N-OCTATRIACONTANE	 	 	Peak Integrated by Software incorrectly
Q2580-02MS		FF016156.D	FF071425	N-TETRADECANE	 	 	Peak Integrated by Software incorrectly
Q2580-02MSD		FF016157.D	FF071425	N-DOTRIACONTANE	 	 	Peak Integrated by Software incorrectly
Q2580-02MSD		FF016157.D	FF071425	N-OCTACOSANE	 	 	Peak Integrated by Software incorrectly
Q2580-02MSD		FF016157.D	FF071425	N-OCTATRIACONTANE	 	 	Peak Integrated by Software incorrectly
Q2580-02MSD		FF016157.D	FF071425	N-TETRADECANE	 	 	Peak Integrated by Software incorrectly

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF071025

Review By	yogesh	Review On	7/10/2025 3:10:07 PM
Supervise By	mohammad	Supervise On	7/11/2025 9:10:05 AM
SubDirectory	FF071025	HP Acquire Method	HP Processing Method FF071025
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM	PP24469		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF016128.D	10 Jul 2025 08:46	YP\AJ	Ok
2	I.BLK	FF016129.D	10 Jul 2025 09:16	YP\AJ	Ok
3	100 TRPH STD	FF016130.D	10 Jul 2025 09:46	YP\AJ	Ok
4	50 TRPH STD	FF016131.D	10 Jul 2025 10:15	YP\AJ	Ok
5	20 TRPH STD	FF016132.D	10 Jul 2025 10:45	YP\AJ	Ok
6	10 TRPH STD	FF016133.D	10 Jul 2025 11:15	YP\AJ	Ok
7	5 TRPH STD	FF016134.D	10 Jul 2025 12:44	YP\AJ	Ok
8	FF071025ICV	FF016135.D	10 Jul 2025 13:13	YP\AJ	Ok
9	I.BLK	FF016136.D	10 Jul 2025 13:43	YP\AJ	Ok
10	50 PPM TRPH STD	FF016137.D	10 Jul 2025 15:12	YP\AJ	Ok
11	RT MARKER	FF016138.D	10 Jul 2025 15:42	YP\AJ	Ok
12	Q2473-04	FF016139.D	10 Jul 2025 16:12	YP\AJ	Ok
13	Q2473-04MS	FF016140.D	10 Jul 2025 16:42	YP\AJ	Ok,M
14	Q2473-04MSD	FF016141.D	10 Jul 2025 17:12	YP\AJ	Ok,M
15	Q2486-01	FF016142.D	10 Jul 2025 17:42	YP\AJ	Ok,M
16	Q2504-01	FF016143.D	10 Jul 2025 18:12	YP\AJ	Ok
17	I.BLK	FF016144.D	10 Jul 2025 18:41	YP\AJ	Ok,M
18	50 PPM TRPH STD	FF016145.D	10 Jul 2025 20:11	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF071425

Review By	yogesh	Review On	7/14/2025 1:17:04 PM
Supervise By		Supervise On	
SubDirectory	FF071425	HP Acquire Method	HP Processing Method FF071025
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM	PP24469		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF016146.D	14 Jul 2025 11:20	YP\AJ	Ok
2	I.BLK	FF016147.D	14 Jul 2025 11:50	YP\AJ	Ok
3	50 PPM TRPH STD	FF016148.D	14 Jul 2025 12:49	YP\AJ	Ok
4	RT MARKER	FF016149.D	14 Jul 2025 13:19	YP\AJ	Ok
5	Q2580-02	FF016150.D	14 Jul 2025 13:49	YP\AJ	Ok
6	Q2589-01	FF016151.D	14 Jul 2025 14:19	YP\AJ	Dilution
7	I.BLK	FF016152.D	14 Jul 2025 14:49	YP\AJ	Ok,NS
8	50 PPM TRPH STD	FF016153.D	14 Jul 2025 15:19	YP\AJ	Ok,NS
9	PB168834BL	FF016154.D	14 Jul 2025 15:49	YP\AJ	Ok
10	PB168834BS	FF016155.D	14 Jul 2025 16:19	YP\AJ	Ok,NS
11	Q2580-02MS	FF016156.D	14 Jul 2025 16:49	YP\AJ	Ok,NS
12	Q2580-02MSD	FF016157.D	14 Jul 2025 17:19	YP\AJ	Ok,NS
13	Q2589-01	FF016158.D	14 Jul 2025 17:49	YP\AJ	Ok
14	I.BLK	FF016159.D	14 Jul 2025 18:19	YP\AJ	Ok
15	50 PPM TRPH STD	FF016160.D	14 Jul 2025 19:19	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF071025

Review By	yogesh	Review On	7/10/2025 3:10:07 PM
Supervise By	mohammad	Supervise On	7/11/2025 9:10:05 AM
SubDirectory	FF071025	HP Acquire Method	HP Processing Method FF071025

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FF016128.D	10 Jul 2025 08:46		YPIAJ	Ok
2	I.BLK		FF016129.D	10 Jul 2025 09:16		YPIAJ	Ok
3	100 TRPH STD		FF016130.D	10 Jul 2025 09:46		YPIAJ	Ok
4	50 TRPH STD		FF016131.D	10 Jul 2025 10:15		YPIAJ	Ok
5	20 TRPH STD		FF016132.D	10 Jul 2025 10:45		YPIAJ	Ok
6	10 TRPH STD		FF016133.D	10 Jul 2025 11:15		YPIAJ	Ok
7	5 TRPH STD		FF016134.D	10 Jul 2025 12:44		YPIAJ	Ok
8	FF071025ICV		FF016135.D	10 Jul 2025 13:13		YPIAJ	Ok
9	I.BLK		FF016136.D	10 Jul 2025 13:43		YPIAJ	Ok
10	50 PPM TRPH STD		FF016137.D	10 Jul 2025 15:12		YPIAJ	Ok
11	RT MARKER		FF016138.D	10 Jul 2025 15:42		YPIAJ	Ok
12	Q2473-04		FF016139.D	10 Jul 2025 16:12		YPIAJ	Ok
13	Q2473-04MS		FF016140.D	10 Jul 2025 16:42		YPIAJ	Ok,M
14	Q2473-04MSD		FF016141.D	10 Jul 2025 17:12		YPIAJ	Ok,M
15	Q2486-01		FF016142.D	10 Jul 2025 17:42		YPIAJ	Ok,M
16	Q2504-01		FF016143.D	10 Jul 2025 18:12		YPIAJ	Ok
17	I.BLK		FF016144.D	10 Jul 2025 18:41		YPIAJ	Ok,M
18	50 PPM TRPH STD		FF016145.D	10 Jul 2025 20:11		YPIAJ	Ok

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF071025

Review By	yogesh	Review On	7/10/2025 3:10:07 PM	
Supervise By	mohammad	Supervise On	7/11/2025 9:10:05 AM	
SubDirectory	FF071025	HP Acquire Method	HP Processing Method	FF071025
STD. NAME	STD REF.#			
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472			
CCC Internal Standard/PEM	PP24469			
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473			

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF071425

Review By	yogesh	Review On	7/14/2025 1:17:04 PM
Supervise By		Supervise On	
SubDirectory	FF071425	HP Acquire Method	HP Processing Method FF071025
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC	PP24469		
Internal Standard/PEM			
ICV/I.BLK	PP24468,PP24473		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FF016146.D	14 Jul 2025 11:20		YPIAJ	Ok
2	I.BLK		FF016147.D	14 Jul 2025 11:50		YPIAJ	Ok
3	50 PPM TRPH STD		FF016148.D	14 Jul 2025 12:49		YPIAJ	Ok
4	RT MARKER		FF016149.D	14 Jul 2025 13:19		YPIAJ	Ok
5	Q2580-02		FF016150.D	14 Jul 2025 13:49		YPIAJ	Ok
6	Q2589-01		FF016151.D	14 Jul 2025 14:19	need 50x dilution	YPIAJ	Dilution
7	I.BLK		FF016152.D	14 Jul 2025 14:49		YPIAJ	Ok,NS
8	50 PPM TRPH STD		FF016153.D	14 Jul 2025 15:19		YPIAJ	Ok,NS
9	PB168834BL		FF016154.D	14 Jul 2025 15:49		YPIAJ	Ok
10	PB168834BS		FF016155.D	14 Jul 2025 16:19		YPIAJ	Ok,NS
11	Q2580-02MS		FF016156.D	14 Jul 2025 16:49		YPIAJ	Ok,NS
12	Q2580-02MSD		FF016157.D	14 Jul 2025 17:19		YPIAJ	Ok,NS
13	Q2589-01		FF016158.D	14 Jul 2025 17:49		YPIAJ	Ok
14	I.BLK		FF016159.D	14 Jul 2025 18:19		YPIAJ	Ok
15	50 PPM TRPH STD		FF016160.D	14 Jul 2025 19:19		YPIAJ	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/14/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:10
In Date: 07/11/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 07/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136437

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
Q2561-01	AUD-25-0115	1	1.15	10.37	11.52	11.33	98.2	
Q2561-02	AUD-25-0116	2	1.13	10.33	11.46	11.22	97.7	
Q2578-02	WC-A5-01-C	13	1.15	10.23	11.38	9.84	84.9	
Q2578-06	WC-A2-09-C	14	1.18	10.33	11.51	8.94	75.1	
Q2578-10	WC-A2-10-C	15	1.15	10.33	11.48	8.58	71.9	
Q2578-14	WC-A2-11-C	16	1.16	10.44	11.6	9.81	82.9	
Q2578-18	WC-A2-12-C	17	1.18	10.29	11.47	7.91	65.4	
Q2579-02	WC-A2-13-C	18	1.19	10.53	11.72	8.78	72.1	
Q2579-06	WC-A2-14-C	19	1.12	10.54	11.66	9.82	82.5	
Q2580-01	WC-URBAN-FILL-B1	20	1.18	10.04	11.22	10.6	93.8	
Q2580-02	WC-URBAN-FILL-B2	21	1.17	10.82	11.99	11.4	94.5	
Q2581-05	SVOC-GPC-BLANK	3	1.00	1.00	2.00	2.00	100.0	
Q2581-06	PEST-GPC-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q2581-07	PEST-GPC-BLANK-SPIKE	5	1.00	1.00	2.00	2.00	100.0	
Q2581-08	PCB-GPC-BLANK	6	1.00	1.00	2.00	2.00	100.0	
Q2581-09	PCB-GPC-BLANK-SPIKE	7	1.00	1.00	2.00	2.00	100.0	
Q2581-10	SVOC-GPC2-BLANK	8	1.00	1.00	2.00	2.00	100.0	
Q2581-11	PEST-GPC2-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q2581-12	PEST-GPC2-BLANK-SPIKE	10	1.00	1.00	2.00	2.00	100.0	
Q2581-13	PCB-GPC2-BLANK	11	1.00	1.00	2.00	2.00	100.0	
Q2581-14	PCB-GCP2-BLANK-SPIKE	12	1.00	1.00	2.00	2.00	100.0	
Q2586-01	TP-16	22	1.18	10.21	11.39	10.36	89.9	
Q2586-02	TP-16-EPH	23	1.15	10.84	11.99	11.34	94.0	
Q2586-03	TP-16-VOC	24	1.13	10.44	11.57	10.45	89.3	
Q2587-01	E-2257	25	1.00	1.00	2.00	2.00	100.0	oil sample
Q2587-02	F-2258	26	1.00	1.00	2.00	2.00	100.0	oil sample
Q2587-03	O-2267	27	1.00	1.00	2.00	2.00	100.0	oil sample
Q2589-01	AU-6-071125	28	1.15	10.43	11.58	10.35	88.2	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/14/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:10
In Date: 07/11/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 07/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136437

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
Q2590-01	NB-7-071125	29	1.14	10.44	11.58	11.23	96.6	
Q2590-02	NB-7-071125-E2	30	1.13	10.74	11.87	10.71	89.2	
Q2591-01	72-12000-1	31	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2591-02	72-12000-2	32	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2591-03	NWB-2188	33	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE

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

WORKLIST(Hardcopy Internal Chain)

136437

WorkList Name : %1-071125 WorkList ID : 190653 Department : Wet-Chemistry Date : 07-11-2025 07:59:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2581-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/04/2025	Chemtech -SO
Q2581-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/04/2025	Chemtech -SO
Q2581-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/04/2025	Chemtech -SO
Q2581-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/04/2025	Chemtech -SO
Q2581-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/04/2025	Chemtech -SO
Q2581-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/04/2025	Chemtech -SO
Q2581-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/04/2025	Chemtech -SO
Q2581-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/04/2025	Chemtech -SO
Q2581-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/04/2025	Chemtech -SO
Q2581-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/04/2025	Chemtech -SO
Q2561-01	AUD-25-0115	Solid	Percent Solids	Cool 4 deg C	PSEG03	O21	07/10/2025	Chemtech -SO
Q2561-02	AUD-25-0116	Solid	Percent Solids	Cool 4 deg C	PSEG03	O21	07/10/2025	Chemtech -SO
Q2586-01	TP-16	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/11/2025	Chemtech -SO
Q2586-02	TP-16-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/11/2025	Chemtech -SO
Q2586-03	TP-16-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/11/2025	Chemtech -SO
Q2587-01	E-2257	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/11/2025	Chemtech -SO
Q2587-02	F-2258	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/11/2025	Chemtech -SO
Q2587-03	O-2267	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/11/2025	Chemtech -SO
Q2591-01	72-12000-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/11/2025	Chemtech -SO
Q2591-02	72-12000-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/11/2025	Chemtech -SO
Q2591-03	NWB-2188	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/11/2025	Chemtech -SO

Date/Time 07-11-25 13:00 Date/Time 07-11-25 17:30
 Raw Sample Received by: [Signature] Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature] Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

136437

WorkList Name : %1-071125 WorkList ID : 190653 Department : Wet-Chemistry Date : 07-11-2025 07:59:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2590-02	NB-07-071125-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D51	07/11/2025	Chemtech -SO
Q2589-01	AU-06-071125	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	07/11/2025	Chemtech -SO
Q2590-01	NB-07-071125	Solid	Percent Solids	Cool 4 deg C	PSEG05	D51	07/11/2025	Chemtech -SO
Q2578-02	WC-A5-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	D41	07/10/2025	Chemtech -SO
Q2578-06	WC-A2-09-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	D41	07/10/2025	Chemtech -SO
Q2578-10	WC-A2-10-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	D41	07/10/2025	Chemtech -SO
Q2578-14	WC-A2-11-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	D41	07/10/2025	Chemtech -SO
Q2578-18	WC-A2-12-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	D41	07/10/2025	Chemtech -SO
Q2579-02	WC-A2-13-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	D41	07/10/2025	Chemtech -SO
Q2579-06	WC-A2-14-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	D41	07/10/2025	Chemtech -SO
Q2580-01	WC-URBAN-FILL-B1	Solid	Percent Solids	Cool 4 deg C	ENTA05	D41	07/10/2025	Chemtech -SO
Q2580-02	WC-URBAN-FILL-B2	Solid	Percent Solids	Cool 4 deg C	ENTA05	D41	07/10/2025	Chemtech -SO

Date/Time 07-11-25 15:00

Raw Sample Received by: SS

Raw Sample Relinquished by: SS

Date/Time 07-11-25 17:30

Raw Sample Received by: SS

Raw Sample Relinquished by: SS

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Extraction Start Date : 07/14/2025

Matrix : Solid

Extraction Start Time : 09:40

Weigh By: EH

Extraction By: RS

Extraction End Date : 07/14/2025

Balance check: EH

Filter By: EH

Extraction End Time : 12:45

Balance ID: EX-SC-2

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: N/A

Hood ID: 3,7

Supervisor By : RUPESH

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

Standardized Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	20 PPM	PP24583
Surrogate	1.0ML	20 PPM	PP24596
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2612
Baked Na2SO4	N/A	EP2624
Methylene Chloride	N/A	E3943
Sand	N/A	E3951
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

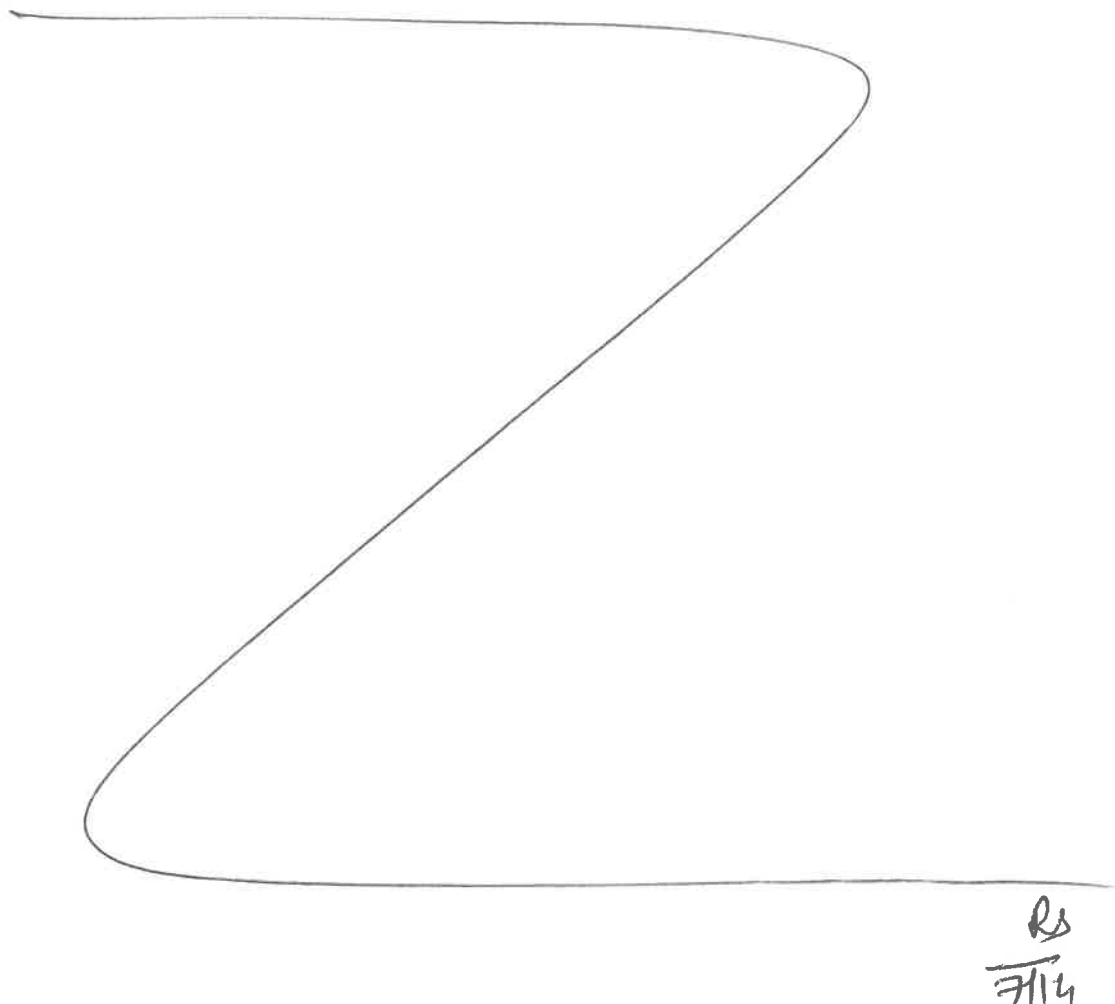
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/14/25	RS (Ext Lab)	Y-P-PestipB.
12:50	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 07/14/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168834BL	PB168834BL	TPH GC	30.02	N/A	RUPESH	Evelyn	1			U2-1
PB168834BS	PB168834BS	TPH GC	30.01	N/A	RUPESH	Evelyn	1			2
Q2580-02	WC-URBAN-FILL-B2	TPH GC	30.07	N/A	RUPESH	Evelyn	1	B		3
Q2580-02MS	WC-URBAN-FILL-B2MS	TPH GC	30.06	N/A	RUPESH	Evelyn	1	B		4
Q2580-02MS D	WC-URBAN-FILL-B2MSD	TPH GC	30.08	N/A	RUPESH	Evelyn	1	B		5
Q2589-01	AU-06-071125	TPH GC	30.03	N/A	RUPESH	Evelyn	1	E		6



16834
9:40

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2580 WorkList ID : 190691 Department : Extraction Date : 07-14-2025 08:55:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2580-02	WC-URBAN-FILL-B2	Solid	TPH GC	Cool 4 deg C	ENTA05	D41	07/10/2025	8015D
Q2589-01	AU-06-071125	Solid	TPH GC	Cool 4 deg C	PSEG05	D31	07/11/2025	8015D

Date/Time 7/14/25 9:35
Raw Sample Received by: EIA (Ext Lab)
Raw Sample Relinquished by: [Signature]

Date/Time 7/14/25 9:50
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: EIA (Ext Lab)

Prep Standard - Chemical Standard Summary

Order ID : Q2580

Test : TPH GC

Prepbatch ID : PB168834,

Sequence ID/Qc Batch ID: FF071425,

Standard ID :

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

Chemical ID :

E3551,E3926,E3930,E3931,E3932,E3943,E3951,P11951,P11952,P13106,P13108,P13477,P13479,P13483,P13484,P13485,P13486,P13938,P13945,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2612	05/09/2025	11/05/2025	RUPESEKUMA R SHAH	None	None	Riteshkumar Patel 05/09/2025

FROM 8000.00000ml of E3930 + 8000.00000ml of E3932 = Final Quantity: 16000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2624	06/26/2025	12/04/2025	RUPESEKUMA R SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel 06/26/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
433	100/100 PPM DRO (Restek)	PP24467	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 1.00000ml of P11951 + 1.00000ml of P11952 + 1.00000ml of P13477 + 7.00000ml of E3926 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3979	100/100 PPM DRO ICV (RESTEK)	PP24468	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 1.00000ml of P13106 + 1.00000ml of P13108 + 1.00000ml of P13479 + 7.00000ml of E3926 = Final Quantity: 10.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
435	50 PPM ICC DRO STD (Restek)	PP24469	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.50000ml of E3926 + 0.50000ml of PP24467 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
437	20 PPM ICC DRO STD (Restek)	PP24470	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.80000ml of E3926 + 0.20000ml of PP24467 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
438	10 PPM ICC DRO STD (Restek)	PP24471	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.90000ml of E3926 + 0.10000ml of PP24467 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
439	5 PPM ICC DRO STD (Restek)	PP24472	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.90000ml of E3926 + 0.10000ml of PP24469 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3608	50 PPM ICV DRO STD (RESTEK)	PP24473	04/22/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.50000ml of E3926 + 0.50000ml of PP24468 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3609	20 PPM DRO SPIKE SOLUTION (RESTEK)	PP24583	05/16/2025	11/16/2025	Rahul Chavli	None	None	Yogesh Patel
								05/22/2025

FROM 0.70000ml of P13945 + 1.30000ml of P13938 + 48.00000ml of E3930 = Final Quantity: 50.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
147	20 PPM DRO Surrogate Spike Solution	PP24596	05/20/2025	11/20/2025	Abdul Mirza	None	None	Yogesh Patel 05/22/2025
<u>FROM</u> 1.00000ml of P13483 + 1.00000ml of P13484 + 1.00000ml of P13485 + 1.00000ml of P13486 + 196.00000ml of E3931 = Final Quantity: 200.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	12/04/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3943

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	25A2756718	12/31/2028	07/09/2025 / RUPESH	04/28/2020 / RUPESH	E3951

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31266 / Florida TRPH Standard	A0186840	10/22/2025	04/22/2025 / yogesh	07/11/2022 / Yogesh	P11951

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

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	10/22/2025	04/22/2025 / yogesh	07/24/2024 / yogesh	P13477

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	10/22/2025	04/22/2025 / yogesh	07/24/2024 / yogesh	P13479

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	11/20/2025	05/20/2025 / Abdul	07/24/2024 / yogesh	P13484

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	11/20/2025	05/20/2025 / Abdul	07/24/2024 / yogesh	P13485

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	72072 / n-Tetracosane-d50, 1000 ug/ml	101122	11/20/2025	05/20/2025 / Abdul	07/24/2024 / yogesh	P13486

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

CHEMICAL RECEIPT LOG BOOK

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



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

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

CERTIFICATE OF ANALYSIS

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

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

COMMENTS

QC: PhC Irma Belmares

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

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

RC-02-01, Ed. 3

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

avantor



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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	10
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.8 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 3926

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

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

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

 **avantor**



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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid (μeq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

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

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

E3930



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

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

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

avantor



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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid (μ eq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

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

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

E3930

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

RS

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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

avantor™



Material No.: 9266-A4

Batch No.: 25A2862010

Manufactured Date: 2024-12-18

Expiration Date: 2026-03-19

Revision No.: 0

Certificate of Analysis

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

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC



Material	BDH9274-2.5KG
Material Description	BDH SAND STDD OTTAWA W+I 2.5KG
Grade	NOT APPLICABLE
Batch	25A2756718
Reassay Date	12/31/2028
CAS Number	14808-60-7
Molecular Formula	SiO ₂
Molecular Mass	60.09
Date of Manufacture	12/05/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Beige granules.	Beige granules.
Moisture	<= 0.1 %	0.1 %
Particle Size 30-40 mesh	>= 80 %	99 %
CUSTOMER PART # BDH9274-2.5KG		

Received on 1/12/25.

E3951

Internal ID #: 793

Signature

We certify that this batch conforms to the specifications listed above.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits

Product meets analytical specifications of the grades listed.



CERTIFIED REFERENCE MATERIAL

110 Benner Circle

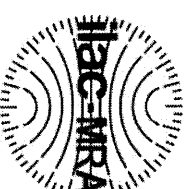
Bellefonte, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31266

Lot No.: A0186840

Description : Florida TRPH Standard

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

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2029

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

CERTIFIED VALUES

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

P11948 } 7.8
P11962 } 07/11/16

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

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

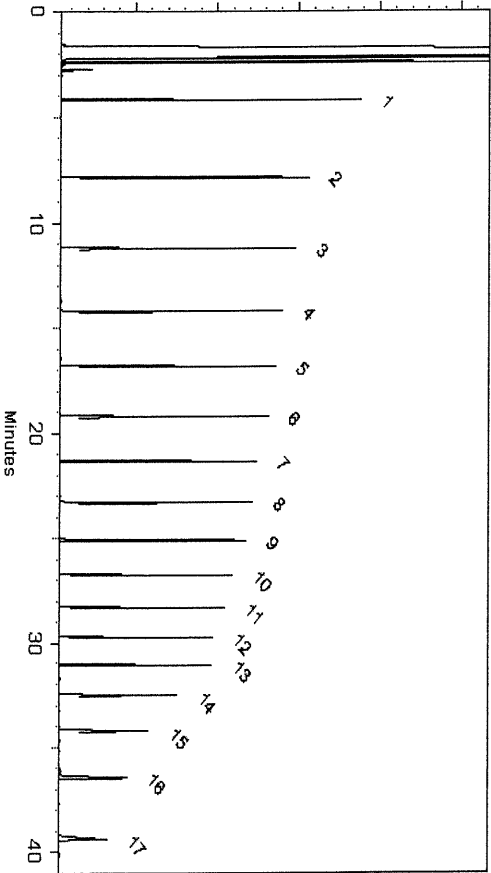
250°C

Det. Temp:

330°C

Det. Type:

FID



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

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



CERTIFIED REFERENCE MATERIAL

110 Benner Circle

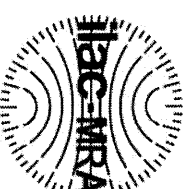
Bellefonte, PA 16823-8812

Tel: (800)356-1688

Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31266

Lot No.: A0186840

Description :

Florida TRPH Standard

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

Container Size :

2 mL

Pkg Amt: > 1 mL

Expiration Date :

July 31, 2029

Storage: 25°C nominal

Handling:

Sonicate prior to use.

Ship: Ambient

CERTIFIED VALUES

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

P11948 } 7.8
P11962 } 07/11/16

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

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

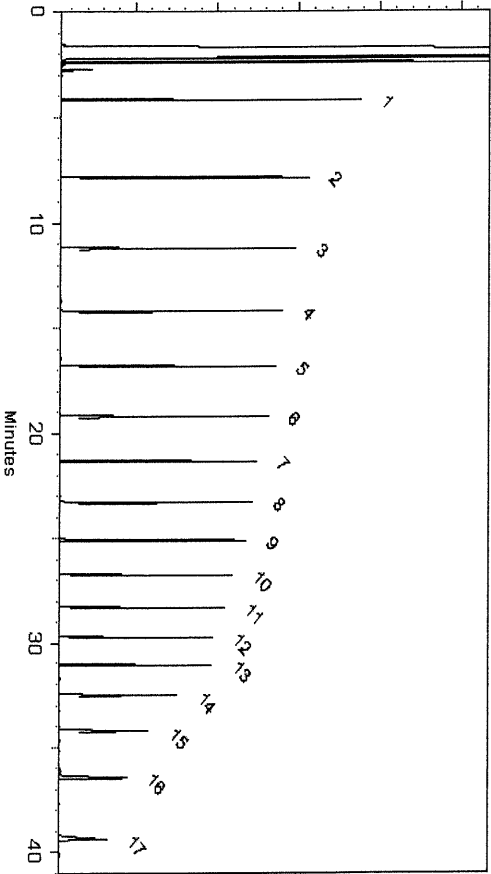
250°C

Det. Temp:

330°C

Det. Type:

FID



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

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Mixed: 29-Jun-2022

Balance: 1128360905

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 01-Jul-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Florida TRPH Standard

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

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

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

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

P13103 } Y.P.
↓
P13112 } 01/12/2024

CERTIFIED VALUES

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

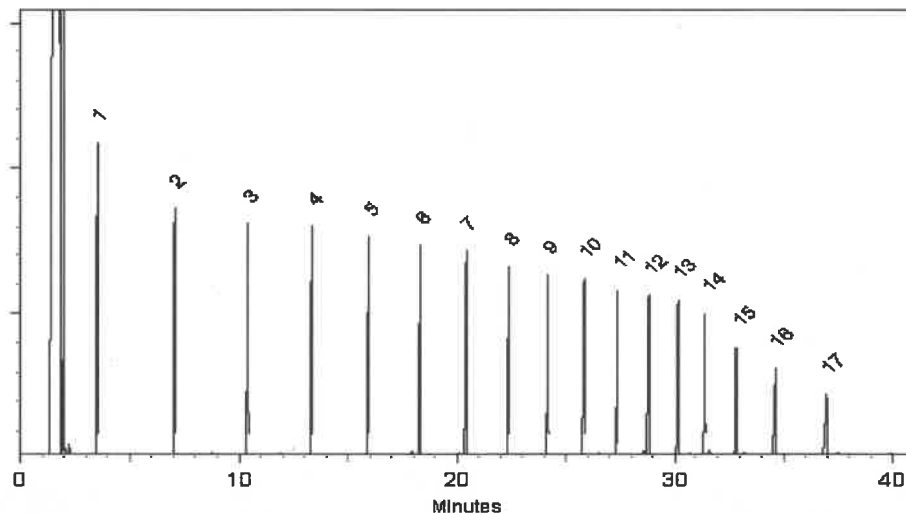
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl

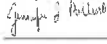


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Florida TRPH Standard

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

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

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

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

P13103 } Y.P.
↓
P13112 } 01/12/2024

CERTIFIED VALUES

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

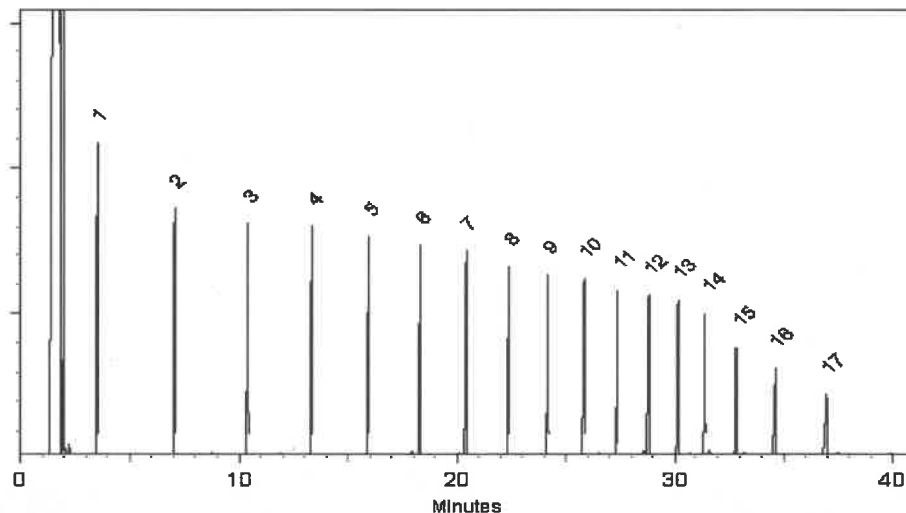
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl

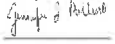


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 29-Nov-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 01-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life 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-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)	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	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
5. Chrysene-d12	92	I-19290	4000	98	0.2	2.04093	2.04159	4001.3	15.4	1719-03-5	N/A	N/A
6. Perylene-d12	247	PR-24113	4000	98	0.2	2.04093	2.04155	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 = sDet 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

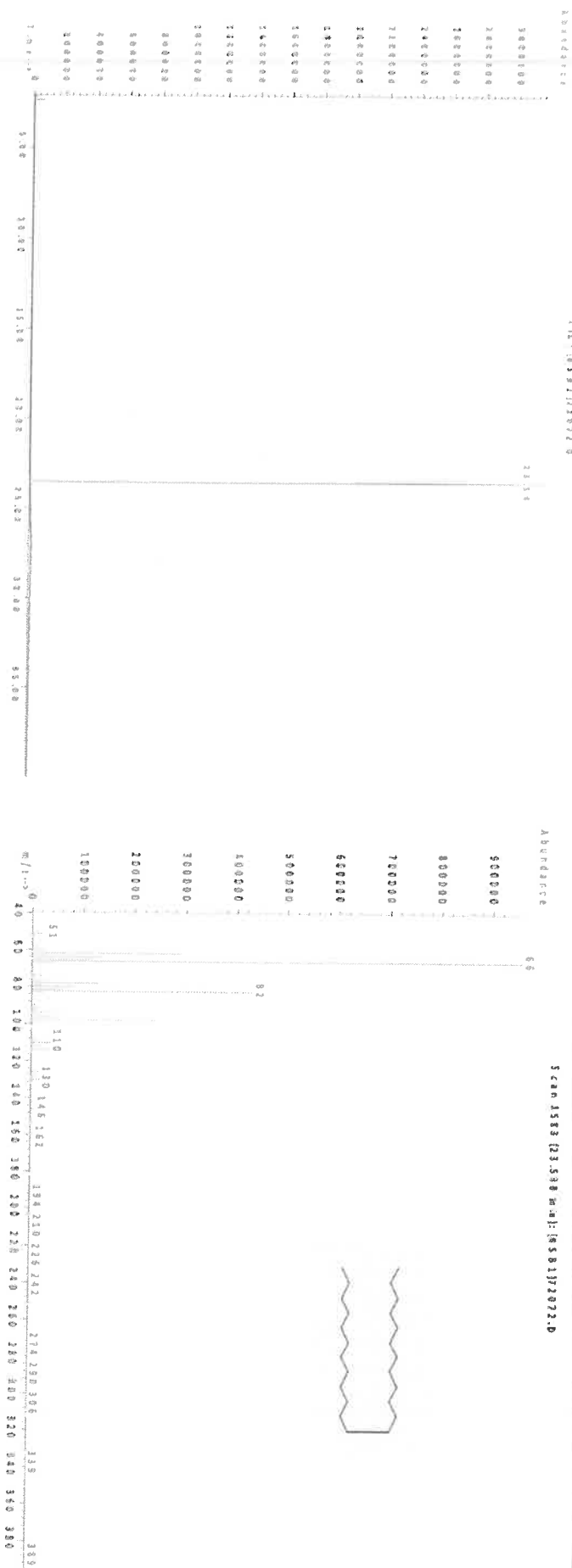
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

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

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

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



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

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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	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

Formulator
Reviewer

Actual
Concentration

Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

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

Solvent(s):
Methylene chloride
Lot#
105345

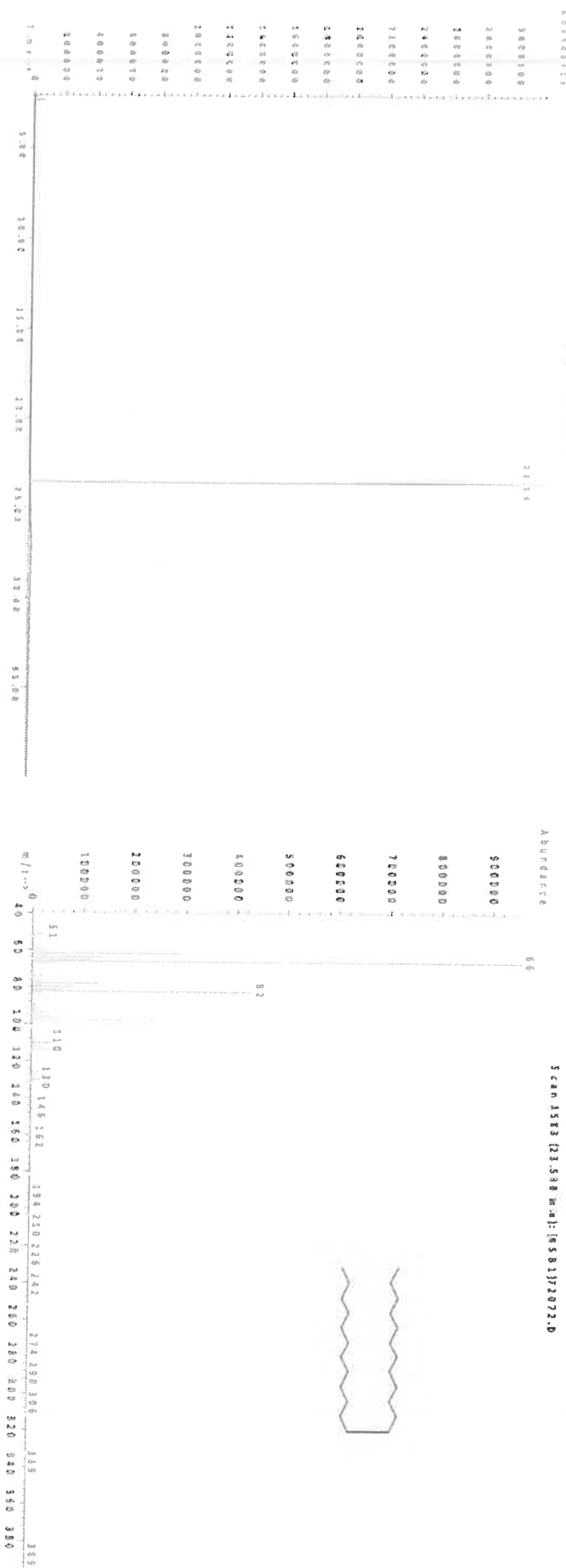
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

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

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

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



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

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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

Absolute Standards, Inc.
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www.absolutestandards.com

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride
Lot# 78782

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

070716
070716

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

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

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

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

Peak No. Name FID RT (min)

1	1,4-Dichlorobenzene-d4	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

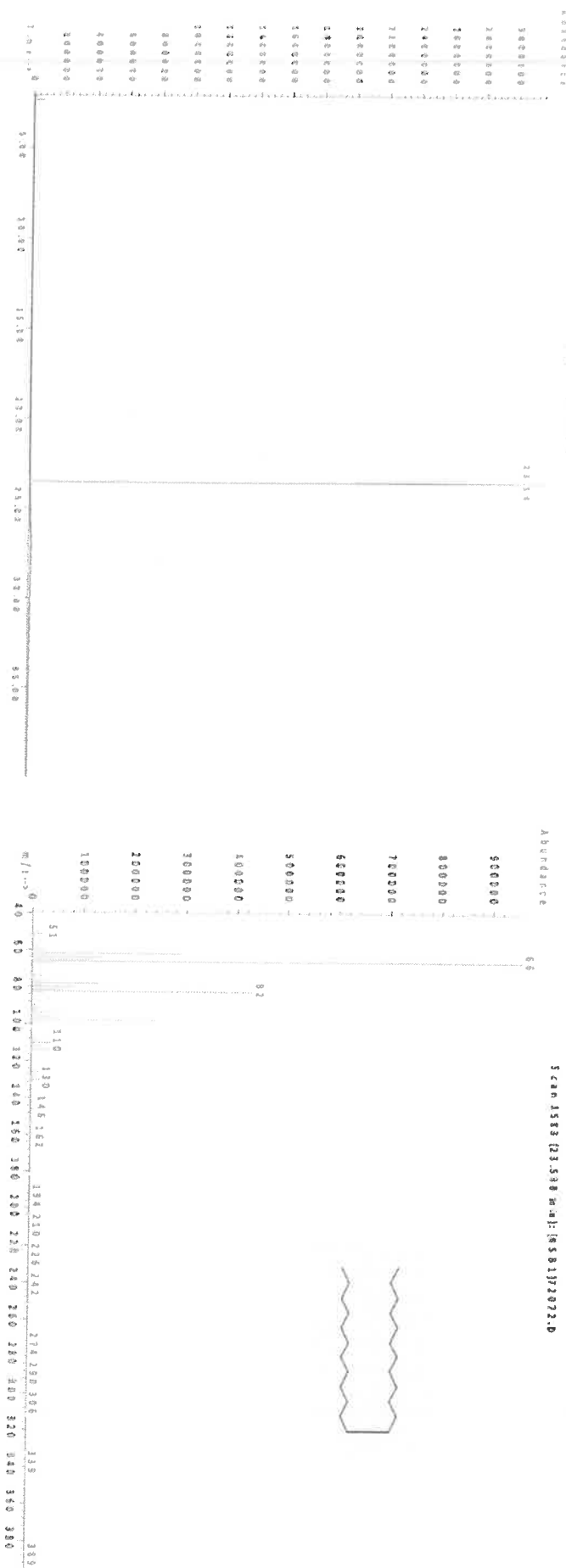
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

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

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

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



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

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

Part # 10009R
Lot # 070716
Shelf Life 070716

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

Solvent(s): Methylene chloride
Lot# 78782

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

070716
070716

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

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	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

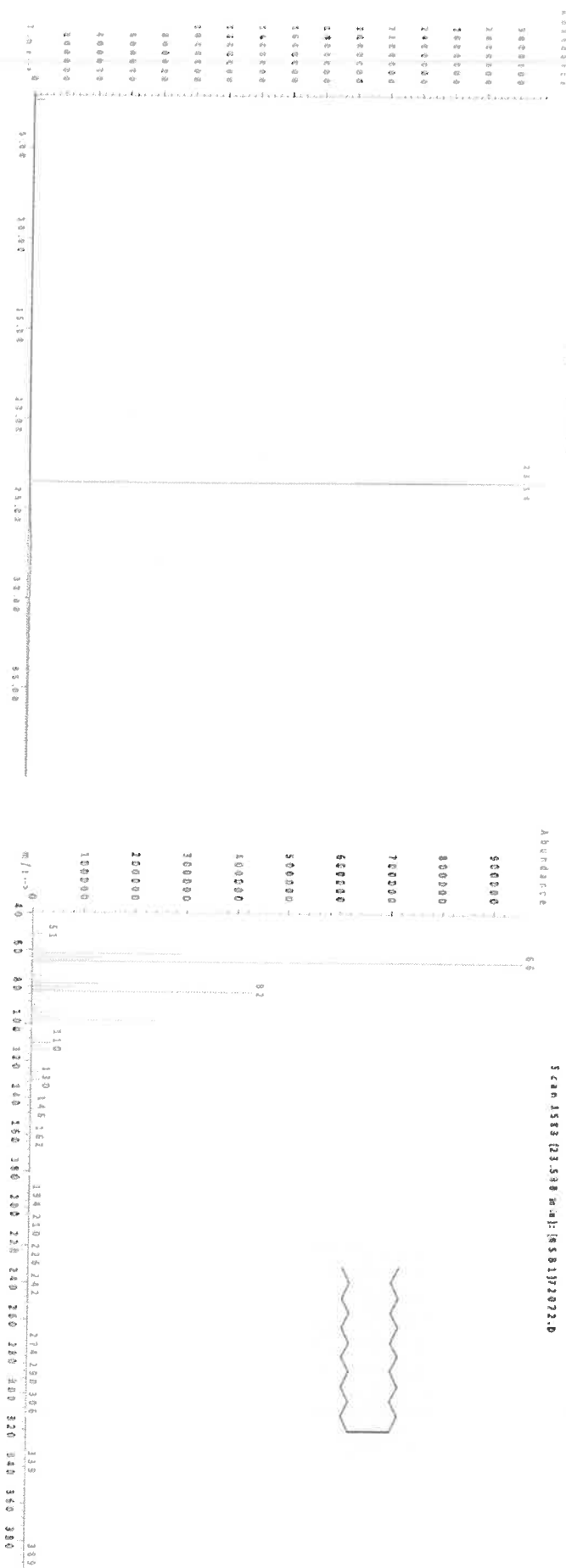
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13436
07/24/24
X.F.

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

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

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



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

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034

Understanding the Certified Weight Report

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

Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT

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

Solvent(s): Methylene chloride
Lot# 78782

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

070716
070716

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

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	CAS#	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

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Formulator
Reviewer

Actual
Concentration
Uncertainty
Values

Health &
Safety

3rd Party
Comparison

For More Information, Contact:

StephenArpie@AbsoluteStandards.com

Page 2 of 2



CERTIFIED WEIGHT REPORT

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

Solvent(s):
Methylene chloride
Lot#
105345

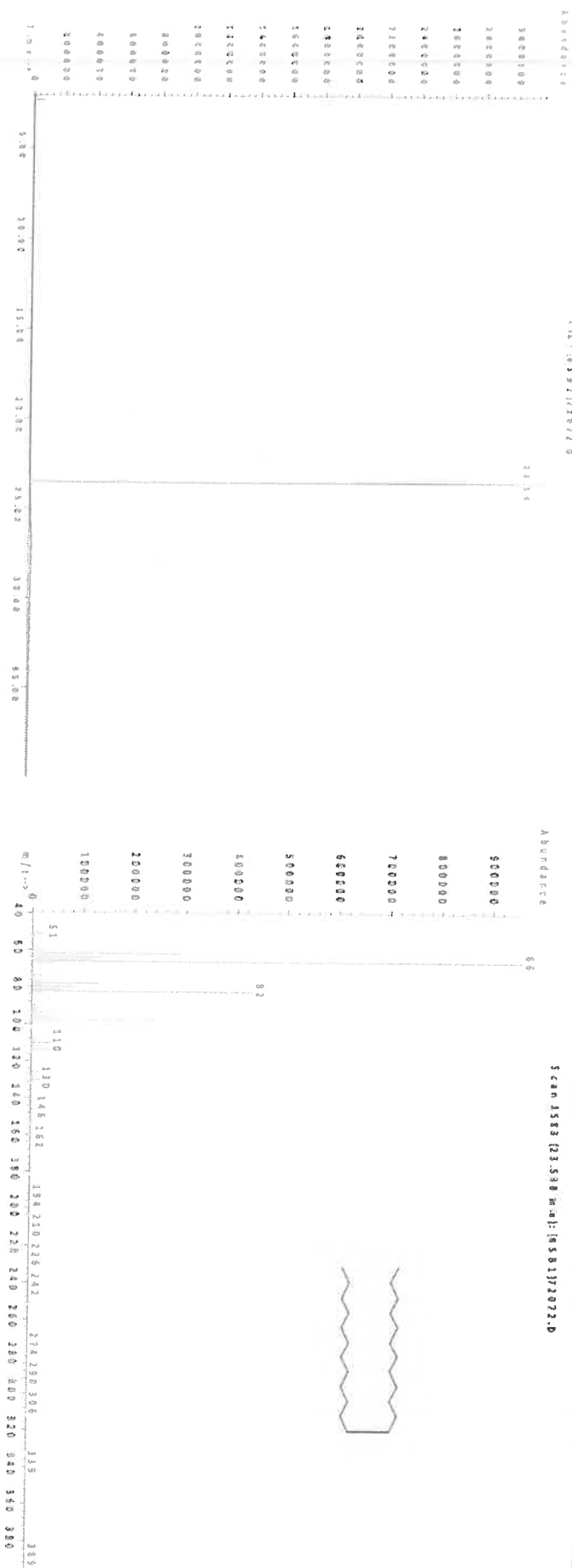
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

P13437
13496
07/24/24
X.F.

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

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

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



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

ABSOLUTE STANDARDS, INC.

ISO - 17034



Certificate of Analysis



Certified Reference Material (CRM)

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

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

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

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

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

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

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

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

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

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

Minimum Sample Size: 0.5 uL for analytical applications.

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

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

Page 1 of 2



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



ABSOLUTE STANDARDS, INC.

ISO - 17034



Understanding the Certified Weight Report



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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:
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 4000
NIST Test ID#: 822-275872-11
Weight(s) shown below were combined and diluted to (mL): 500.0

Solvent(s): Methylene chloride
Lot# 78782

5E-05 Balance Uncertainty
0.058 Mass Uncertainty

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

070716
070716

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

Compound	SMW	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty (%)	Target Weight (µg)	Actual Weight (µg)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. 1,4-Dichlorobenzene-d4	118	PR-1845M07287CB1	4000	98	0.2	2.04093	2.04335	4004.7	15.4	2055-02-1	N/A	or-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)	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	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
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 = sDet 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



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

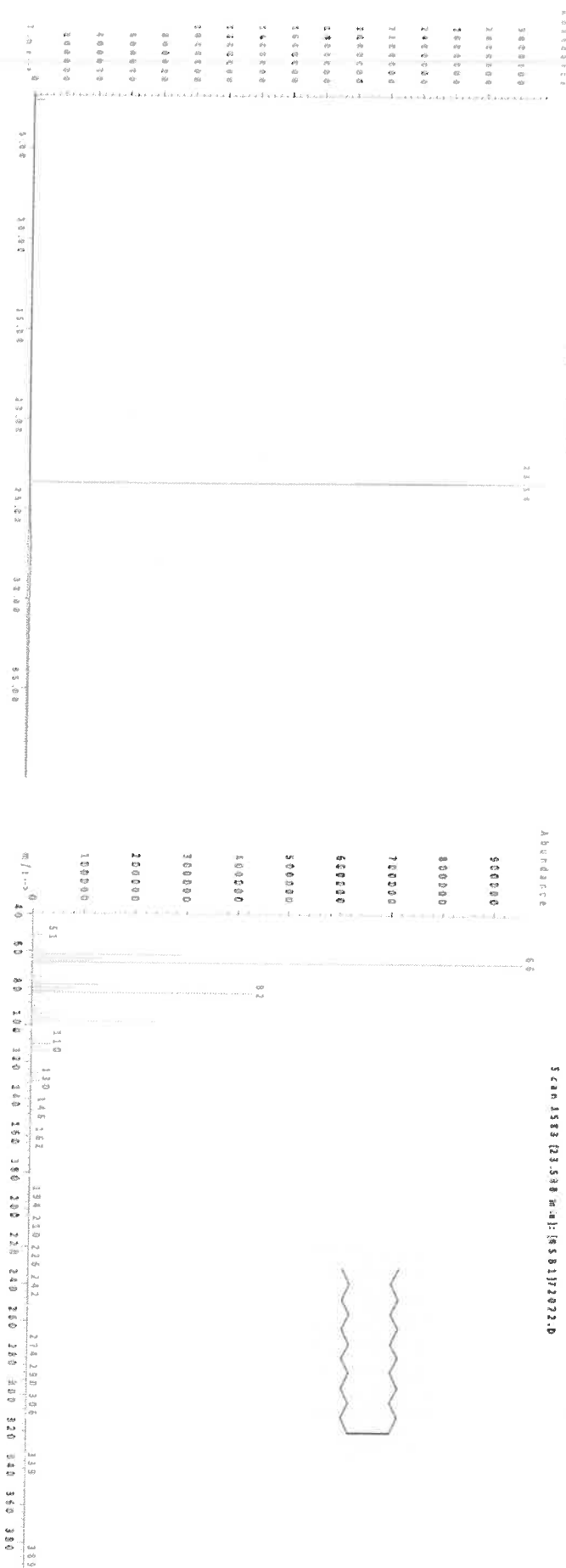
Expiration Date: **101132**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UB3**
Weight(s) shown below were combined and diluted to (mL): **200.0**
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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).



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.: A0217113

Description : Florida TRPH Standard

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

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : October 31, 2031

Storage: 25°C nominal

Handling: Sonicate prior to use.

Ship: Ambient

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

CERTIFIED VALUES

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

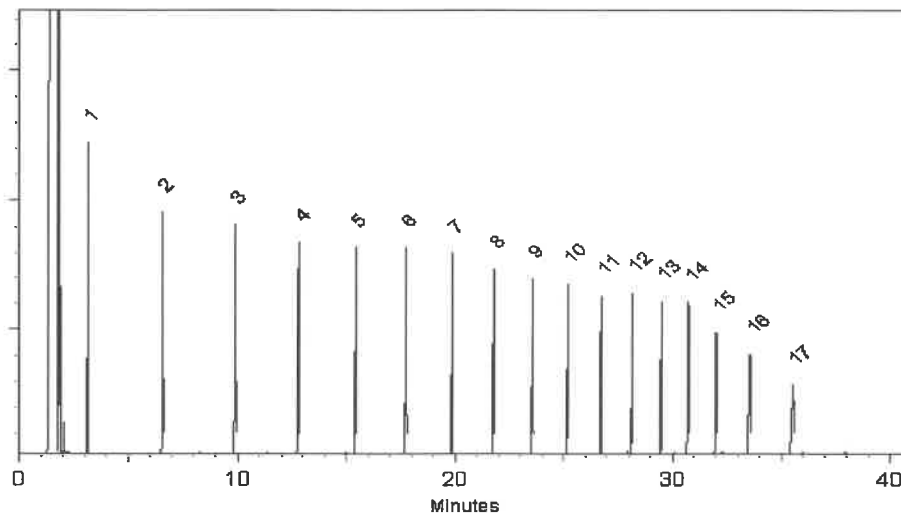
Inj. Temp:
250°C

Det. Temp:
330°C

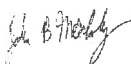
Det. Type:
FID

Split Vent:
2 ml/min.

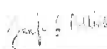
Inj. Vol
1µl



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


Josh McCloskey - Operations Technician I

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


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 10-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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

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Lot No.: A0217113

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

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Pkg Amt: > 1 mL

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Handling: Sonicate prior to use.

Ship: Ambient

P031937
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P031946
Y.P.
03/07/25

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3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	502.5 µg/mL	+/- 12.9814
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	500.5 µg/mL	+/- 12.9297
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	500.0 µg/mL	+/- 12.9168
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7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	500.0 µg/mL	+/- 12.9177
8	n-Docosane (C22)	629-97-0	MKCQ3882	99%	500.5 µg/mL	+/- 12.9297
9	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	500.5 µg/mL	+/- 12.9297
10	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	502.0 µg/mL	+/- 12.9685
11	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	501.0 µg/mL	+/- 12.9426
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Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

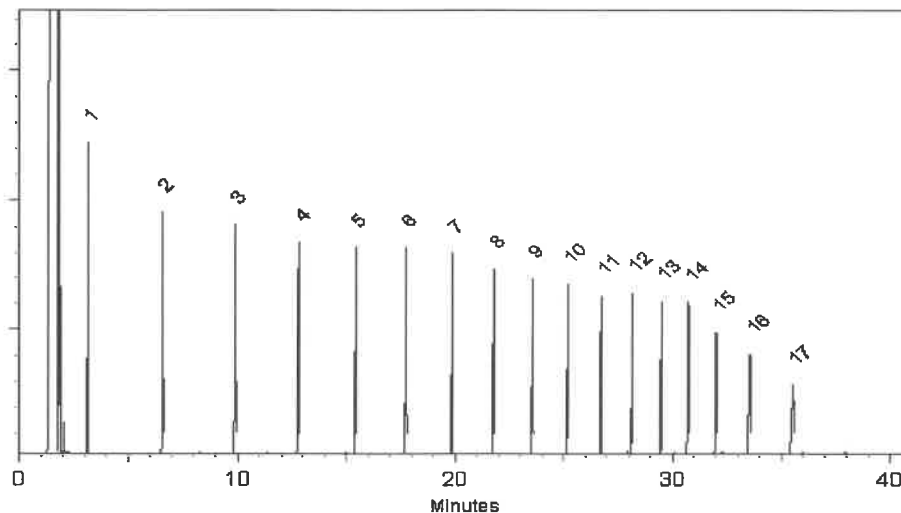
Inj. Temp:
250°C

Det. Temp:
330°C

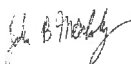
Det. Type:
FID

Split Vent:
2 ml/min.

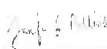
Inj. Vol
1µl



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


Josh McCloskey - Operations Technician I

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


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 10-Oct-2024

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

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- 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:

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

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Manufacturing Notes:

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Handling Notes:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q2580

COC Number: 2042103

Page 1 of 2

CLIENT INFORMATION

COMPANY: ENTACT, LLC
ADDRESS: 150 Bay Street, Suite 806
CITY: Jersey City STATE: NJ ZIP: 07302
ATTENTION: Austin Farmerie
PHONE: 412-716-1366 FAX:

PROJECT INFORMATION

PROJECT NAME: 540 Degraw St Brooklyn, NY
PROJECT #: E9309 LOCATION: Brooklyn, NY
PROJECT MANAGER: Austin Farmerie
E-MAIL: afarmerie@entact.com
PHONE: 412-716-1366 FAX:

BILLING INFORMATION

BILL TO: ENTACT, LLC PO# E9309
ADDRESS: 999 Oakmont Plaza Drive, Suite 300
CITY: Westmont STATE: IL ZIP: 60559
ATTENTION: Wendy Murray PHONE: 800-936-8228

ANALYSIS

TPH	TOTAL VOCs	PAHs	Total Metals RCRA 8						
1	2	3	4	5	6	7	8	9	

DATA TURNAROUND INFORMATION

FAX: _____ 1 _____ DAYS*
HARD COPY: _____ DAYS*
EDD _____ 1 _____ DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other _____
☐ EDD Format _____

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	E	E	E	E								
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other		
1.	WC-URBAN-FILL-B1	Soil	X				3		X										
2.	WC-URBAN-FILL-B2	Soil	X				2	X		X	X								
3.																			
4.																			
5.																			
6.																			
7.																			
8.																			
9.																			
10.																			

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

RELINQUISHED BY SAMPLER 1. Austin Farmerie	DATE/TIME 7/10/25 1350	RECEIVED BY 	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 9.4 C ☐ Ice in Cooler? _____
RELINQUISHED BY	DATE/TIME	RECEIVED BY	Comments:
2.			
RELINQUISHED BY 	DATE/TIME 7-10-25 1527	RECEIVED FOR LAB BY	
3.			

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT

YELLOW - ALLIANCE COPY

PINK - SAMPLER COPY

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete
☐ YES ☐ NO

Laboratory Certification

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



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2580 ENTA05

Order Date : 7/10/2025 3:40:00 PM

Project Mgr : Yazmeen

Client Name : ENTACT

Project Name : 540 Degraw St, Brooklyn, N

Report Type : Level 1

Client Contact : Austin Farmerie

Receive DateTime : 7/10/2025 3:27:00 PM

EDD Type : Excel NJ

Invoice Name : ENTACT

Purchase Order :

Hard Copy Date :

Invoice Contact : Austin Farmerie

Date Signoff : 7/11/2025 1:35:00 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2580-01	WC-URBAN-FILL-B1	Solid	07/10/2025	00:00	VOC-TCLVOA-10		8260D	1 Bus. Day	07/14/2025

Relinquished By : af

Date / Time : 7-11-25

10:10

Received By : Sm

Date / Time : 7-11-25

10:10

Storage Area : VOA Refridgerator Room