

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:	Q3238	OrderDate:	9/29/2025 1:34:00 PM
Client:	Yannuzzi Group, Inc.	Project:	Edison Yard
Contact:	Alyssa Yannuzzi	Location:	D31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3238-01	RCA	SOIL			09/18/25			09/29/25
			PCB	8082A		09/30/25	09/30/25	
			TPH GC	8015D		10/01/25	10/01/25	



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: Yannuzzi Group, Inc.

Lab Code: ACE

SDG No.: Q3238

CLIENT ID	S1	S2	S3	S4	TOT
	TETRACOSANE-d50				OUT
PIBLK-FF016492.D	71				0
PIBLK-FF016505.D	68				0
PB169938BL	67				0
PB169938BS	66				0
WASTEMS	62				0
WASTEMSD	59				0
RCA	40				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>Yannuzzi Group, Inc.</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3238</u>
Client Sample ID :	<u>WASTEMS</u>	Datafile:	<u>FF016499.D</u>

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
Petroleum Hydrocarbons	12658	46600	58393	93%		68-131

SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance

Client: Yannuzzi Group, Inc.

Lab Code: ACE

SDG No: Q3238

Client Sample ID : WASTEMSD

Datafile: FF016500.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS(%)
Petroleum Hydrocarbons	12679	46600	58286	92%		68-131

MS/MSD % Recovery RPD : 1.1

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

Lab Name: Alliance

Client: Yannuzzi Group, Inc.

Lab Code: ACE

SDG No: Q3238

Client Sample ID : PB169938BS

Datafile: FF016496.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
Petroleum Hydrocarbons	11330	0	8255	73	68-131

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB169938BL

Lab Name: Alliance

Contract: YANN01

Lab Code: ACE

SDG NO.: Q3238

Lab File ID: FF016495.D

Lab Sample ID: PB169938BL

Instrument ID: FF

Date Extracted: 10/01/2025

Matrix: (soil/water) Soil

Date Analyzed: 10/01/25

Level: (low/med) low

Time Analyzed: 16:53

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169938BS	PB169938BS	FF016496.D	10/01/25
WASTEMS	Q3216-01MS	FF016499.D	10/01/25
WASTEMSD	Q3216-01MSD	FF016500.D	10/01/25
RCA	Q3238-01	FF016501.D	10/01/25

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	09/18/25
Project:	Edison Yard	Date Received:	09/29/25
Client Sample ID:	RCA	SDG No.:	Q3238
Lab Sample ID:	Q3238-01	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	100
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	TPH GC
GPC Factor :		Injection Volume :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016501.D	1	10/01/25 10:40	10/01/25 19:52	PB169938

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	12100		383	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	8.07		37 - 130	40%	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\FF100125\
Data File : FF016501.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 19:52
Operator : YP\AJ
Sample : Q3238-01
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
RCA

Integration File: autoint1.e
Quant Time: Oct 03 06:44:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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...	15.070	1045035	8.071 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

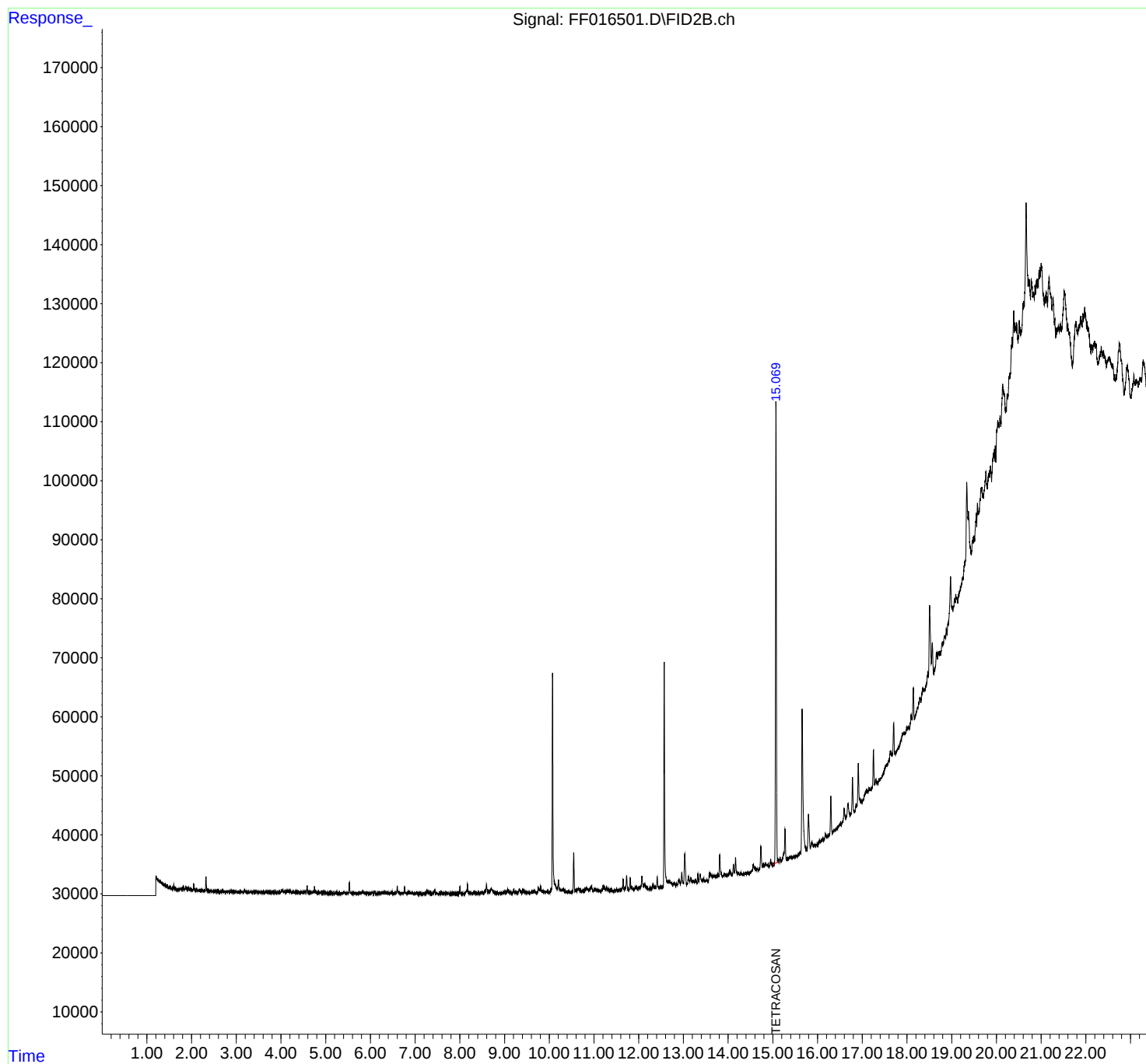
(m)=manual int.

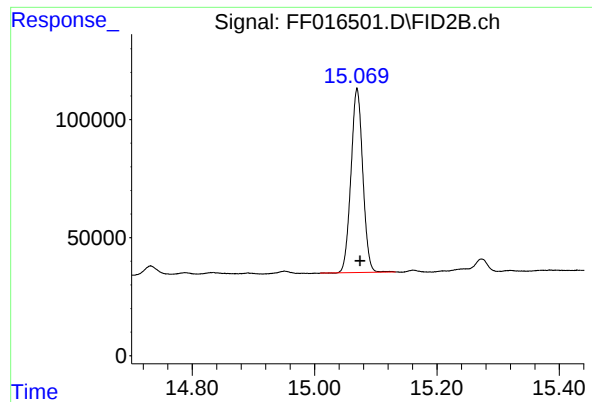
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016501.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 19:52
Operator : YP\AJ
Sample : Q3238-01
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
RCA

Integration File: autoint1.e
Quant Time: Oct 03 06:44:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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.: 15.070 min
Delta R.T.: -0.005 min
Response: 1045035
Conc: 8.07 ug/ml

Instrument :
FID_F
ClientSampleId :
RCA

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
 Data File : FF016501.D
 Signal(s) : FID2B.ch
 Acq On : 01 Oct 2025 19:52
 Sample : Q3238-01
 Misc :
 ALS Vial : 77 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
 Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.930	1.900	1.950	BV	243	2517	0.12%	0.005%
2	1.954	1.950	1.961	PV	85	342	0.02%	0.001%
3	1.975	1.961	1.989	VV	179	1830	0.08%	0.004%
4	1.992	1.989	2.014	VV	109	1007	0.05%	0.002%
5	2.050	2.014	2.112	PV	1143	14687	0.67%	0.031%
6	2.125	2.112	2.155	VV	157	2368	0.11%	0.005%
7	2.159	2.155	2.165	VV	112	362	0.02%	0.001%
8	2.172	2.165	2.178	PV	131	541	0.02%	0.001%
9	2.182	2.178	2.199	VV	92	685	0.03%	0.001%
10	2.236	2.199	2.257	VV	209	4312	0.20%	0.009%
11	2.266	2.257	2.276	VV	199	1417	0.06%	0.003%
12	2.281	2.276	2.305	VV	152	1882	0.09%	0.004%
13	2.322	2.305	2.370	VV	2529	28139	1.29%	0.060%
14	2.378	2.370	2.392	VV	172	1728	0.08%	0.004%
15	2.396	2.392	2.402	VV	166	811	0.04%	0.002%
16	2.411	2.402	2.421	VV	227	1633	0.07%	0.003%
17	2.426	2.421	2.447	VV	187	1991	0.09%	0.004%
18	2.451	2.447	2.459	VV	114	591	0.03%	0.001%
19	2.467	2.459	2.482	VV	125	1072	0.05%	0.002%
20	2.489	2.482	2.500	PV	152	910	0.04%	0.002%
21	2.503	2.500	2.507	VV	134	531	0.02%	0.001%
22	2.510	2.507	2.516	VV	151	521	0.02%	0.001%
23	2.519	2.516	2.524	VV	108	486	0.02%	0.001%
24	2.530	2.524	2.545	VV	171	1273	0.06%	0.003%
25	2.551	2.545	2.573	VV	166	1565	0.07%	0.003%
26	2.585	2.573	2.590	VV	125	873	0.04%	0.002%

				rteres				
27	2.597	2.590	2.604	VV	122	704	0.03%	0.001%
28	2.609	2.604	2.614	VV	129	519	0.02%	0.001%
29	2.628	2.614	2.663	VV	149	2118	0.10%	0.004%
30	2.693	2.663	2.718	VV	199	2808	0.13%	0.006%
31	2.732	2.718	2.764	VV	186	2164	0.10%	0.005%
32	2.772	2.764	2.783	VV	126	886	0.04%	0.002%
33	2.789	2.783	2.796	VV	141	555	0.03%	0.001%
34	2.802	2.796	2.810	PV	141	657	0.03%	0.001%
35	2.819	2.810	2.839	VV	149	1788	0.08%	0.004%
36	2.842	2.839	2.850	VV	152	702	0.03%	0.001%
37	2.857	2.850	2.863	VV	152	978	0.04%	0.002%
38	2.869	2.863	2.881	VV	155	1117	0.05%	0.002%
39	2.889	2.881	2.915	VV	188	1751	0.08%	0.004%
40	2.931	2.915	2.946	VV	123	1232	0.06%	0.003%
41	2.989	2.946	2.994	VV	209	2782	0.13%	0.006%
42	2.997	2.994	3.026	VV	209	2051	0.09%	0.004%
43	3.034	3.026	3.040	VV	139	653	0.03%	0.001%
44	3.055	3.040	3.075	VV	161	2099	0.10%	0.004%
45	3.084	3.075	3.089	VV	126	702	0.03%	0.001%
46	3.117	3.089	3.129	VV	155	1793	0.08%	0.004%
47	3.151	3.129	3.155	VV	111	1228	0.06%	0.003%
48	3.185	3.155	3.208	VV	355	6284	0.29%	0.013%
49	3.212	3.208	3.247	VV	164	2682	0.12%	0.006%
50	3.254	3.247	3.289	VV	117	1817	0.08%	0.004%
51	3.319	3.289	3.324	VV	180	2149	0.10%	0.005%
52	3.329	3.324	3.348	VV	175	1916	0.09%	0.004%
53	3.358	3.348	3.394	VV	109	2063	0.09%	0.004%
54	3.408	3.394	3.426	VV	202	2093	0.10%	0.004%
55	3.445	3.426	3.450	VV	115	996	0.05%	0.002%
56	3.453	3.450	3.482	VV	100	894	0.04%	0.002%
57	3.488	3.482	3.507	VV	100	1147	0.05%	0.002%
58	3.512	3.507	3.532	VV	162	1625	0.07%	0.003%
59	3.537	3.532	3.600	VV	108	2669	0.12%	0.006%
60	3.613	3.600	3.627	VV	124	1251	0.06%	0.003%
61	3.660	3.627	3.671	VV	152	2627	0.12%	0.006%
62	3.673	3.671	3.687	VV	118	873	0.04%	0.002%
63	3.705	3.687	3.713	VV	167	1501	0.07%	0.003%
64	3.748	3.713	3.759	VV	144	2501	0.11%	0.005%
65	3.762	3.759	3.804	VV	120	2429	0.11%	0.005%
66	3.807	3.804	3.847	VV	133	2413	0.11%	0.005%
67	3.854	3.847	3.867	VV	155	1438	0.07%	0.003%
68	3.879	3.867	3.924	VV	184	3881	0.18%	0.008%
69	3.928	3.924	3.941	VV	167	1161	0.05%	0.002%
70	3.954	3.941	3.962	VV	113	1214	0.06%	0.003%

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71	3.968	3.962	3.982	VV	133	1098	0.05%	0.002%
72	3.988	3.982	3.991	VV	104	436	0.02%	0.001%
73	4.015	3.991	4.024	VV	517	6592	0.30%	0.014%
74	4.031	4.024	4.064	VV	387	7579	0.35%	0.016%
75	4.069	4.064	4.073	VV	250	1151	0.05%	0.002%
76	4.077	4.073	4.085	VV	225	1370	0.06%	0.003%
77	4.088	4.085	4.107	VV	226	2642	0.12%	0.006%
78	4.126	4.107	4.173	VV	424	11070	0.51%	0.023%
79	4.181	4.173	4.185	VV	265	1772	0.08%	0.004%
80	4.191	4.185	4.228	VV	310	6659	0.30%	0.014%
81	4.240	4.228	4.246	VV	222	1922	0.09%	0.004%
82	4.251	4.246	4.256	VV	171	886	0.04%	0.002%
83	4.261	4.256	4.288	VV	181	2739	0.13%	0.006%
84	4.293	4.288	4.298	VV	233	989	0.05%	0.002%
85	4.302	4.298	4.321	VV	171	1965	0.09%	0.004%
86	4.344	4.321	4.379	VV	355	7137	0.33%	0.015%
87	4.392	4.379	4.425	VV	311	4987	0.23%	0.011%
88	4.435	4.425	4.443	VV	146	1165	0.05%	0.002%
89	4.447	4.443	4.471	VV	97	1432	0.07%	0.003%
90	4.524	4.471	4.547	VV	274	8546	0.39%	0.018%
91	4.551	4.547	4.564	VV	269	2126	0.10%	0.005%
92	4.585	4.564	4.617	VV	1290	16293	0.75%	0.034%
93	4.623	4.617	4.641	VV	157	1756	0.08%	0.004%
94	4.647	4.641	4.692	VV	171	3325	0.15%	0.007%
95	4.698	4.692	4.702	VV	131	688	0.03%	0.001%
96	4.705	4.702	4.731	VV	155	2512	0.12%	0.005%
97	4.749	4.731	4.771	VV	1183	13621	0.62%	0.029%
98	4.776	4.771	4.801	VV	217	2970	0.14%	0.006%
99	4.806	4.801	4.811	VV	172	949	0.04%	0.002%
100	4.821	4.811	4.836	VV	188	2123	0.10%	0.004%
101	4.839	4.836	4.854	VV	147	1217	0.06%	0.003%
102	4.859	4.854	4.882	VV	181	1721	0.08%	0.004%
103	4.923	4.882	4.932	VV	181	3913	0.18%	0.008%
104	4.944	4.932	5.014	VV	221	6436	0.29%	0.014%
105	5.025	5.014	5.040	VV	139	1427	0.07%	0.003%
106	5.047	5.040	5.053	VV	121	652	0.03%	0.001%
107	5.059	5.053	5.065	VV	130	594	0.03%	0.001%
108	5.092	5.065	5.116	VV	169	2247	0.10%	0.005%
109	5.124	5.116	5.129	VV	107	614	0.03%	0.001%
110	5.137	5.129	5.161	VV	166	1932	0.09%	0.004%
111	5.169	5.161	5.183	VV	120	934	0.04%	0.002%
112	5.188	5.183	5.196	VV	97	339	0.02%	0.001%
113	5.202	5.196	5.207	PV	104	369	0.02%	0.001%

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114	5.239	5.207	5.267	VV	310	6036	0.28%	0.013%
115	5.276	5.267	5.280	VV	73	487	0.02%	0.001%
116	5.282	5.280	5.293	VV	87	330	0.02%	0.001%
117	5.328	5.293	5.334	VV	129	1838	0.08%	0.004%
118	5.340	5.334	5.347	VV	94	782	0.04%	0.002%
119	5.349	5.347	5.358	VV	105	472	0.02%	0.001%
120	5.405	5.358	5.425	VV	319	6110	0.28%	0.013%
121	5.430	5.425	5.434	VV	134	538	0.02%	0.001%
122	5.439	5.434	5.458	VV	100	1284	0.06%	0.003%
123	5.463	5.458	5.476	VV	96	793	0.04%	0.002%
124	5.492	5.476	5.499	VV	177	1103	0.05%	0.002%
125	5.503	5.499	5.511	VV	133	764	0.04%	0.002%
126	5.529	5.511	5.554	VV	1936	21496	0.98%	0.046%
127	5.567	5.554	5.588	VV	231	3573	0.16%	0.008%
128	5.592	5.588	5.630	VV	155	2569	0.12%	0.005%
129	5.634	5.630	5.639	VV	137	470	0.02%	0.001%
130	5.643	5.639	5.654	VV	113	690	0.03%	0.001%
131	5.664	5.654	5.677	VV	147	1388	0.06%	0.003%
132	5.681	5.677	5.693	VV	115	621	0.03%	0.001%
133	5.719	5.693	5.741	PV	169	2216	0.10%	0.005%
134	5.744	5.741	5.749	VV	96	386	0.02%	0.001%
135	5.769	5.749	5.776	VV	235	2397	0.11%	0.005%
136	5.781	5.776	5.787	VV	213	1137	0.05%	0.002%
137	5.798	5.787	5.809	VV	248	2754	0.13%	0.006%
138	5.825	5.809	5.845	VV	406	6158	0.28%	0.013%
139	5.850	5.845	5.881	VV	206	3842	0.18%	0.008%
140	5.882	5.881	5.904	VV	209	1704	0.08%	0.004%
141	5.917	5.904	5.940	VV	202	2184	0.10%	0.005%
142	5.953	5.940	5.966	VV	176	1969	0.09%	0.004%
143	5.969	5.966	6.009	VV	199	3357	0.15%	0.007%
144	6.042	6.009	6.067	VV	366	5646	0.26%	0.012%
145	6.092	6.067	6.120	VV	367	5419	0.25%	0.011%
146	6.125	6.120	6.129	VV	73	303	0.01%	0.001%
147	6.131	6.129	6.135	VV	86	180	0.01%	0.000%
148	6.196	6.135	6.217	VV	215	4017	0.18%	0.009%
149	6.238	6.217	6.252	VV	170	1850	0.08%	0.004%
150	6.260	6.252	6.282	VV	197	2063	0.09%	0.004%
151	6.305	6.282	6.359	VV	339	10414	0.48%	0.022%
152	6.377	6.359	6.404	VV	301	5203	0.24%	0.011%
153	6.415	6.404	6.444	VV	161	2967	0.14%	0.006%
154	6.477	6.444	6.526	VV	485	9915	0.45%	0.021%
155	6.559	6.526	6.579	VV	215	5444	0.25%	0.012%
156	6.600	6.579	6.624	VV	1340	16632	0.76%	0.035%

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157	6.628	6.624	6.636	VV	299	1920	0.09%	0.004%
158	6.645	6.636	6.678	VV	325	4575	0.21%	0.010%
159	6.693	6.678	6.726	VV	207	4126	0.19%	0.009%
160	6.763	6.726	6.788	VV	1265	16840	0.77%	0.036%
161	6.792	6.788	6.812	VV	115	1208	0.06%	0.003%
162	6.820	6.812	6.827	VV	114	718	0.03%	0.002%
163	6.842	6.827	6.884	VV	455	8610	0.39%	0.018%
164	6.887	6.884	6.952	VV	198	5443	0.25%	0.012%
165	6.961	6.952	6.995	VV	193	3350	0.15%	0.007%
166	6.999	6.995	7.003	VV	95	290	0.01%	0.001%
167	7.006	7.003	7.011	VV	70	233	0.01%	0.000%
168	7.024	7.011	7.029	VV	218	1380	0.06%	0.003%
169	7.035	7.029	7.056	VV	225	2275	0.10%	0.005%
170	7.058	7.056	7.101	VV	165	2005	0.09%	0.004%
171	7.105	7.101	7.134	VV	110	1366	0.06%	0.003%
172	7.158	7.134	7.182	VV	139	2079	0.10%	0.004%
173	7.190	7.182	7.202	VV	114	981	0.04%	0.002%
174	7.228	7.202	7.233	VV	173	1767	0.08%	0.004%
175	7.257	7.233	7.284	VV	678	11815	0.54%	0.025%
176	7.289	7.284	7.371	VV	405	13017	0.60%	0.028%
177	7.374	7.371	7.379	VV	137	667	0.03%	0.001%
178	7.396	7.379	7.414	VV	249	3776	0.17%	0.008%
179	7.433	7.414	7.482	VV	665	13980	0.64%	0.030%
180	7.494	7.482	7.506	VV	198	2177	0.10%	0.005%
181	7.513	7.506	7.526	VV	127	1063	0.05%	0.002%
182	7.540	7.526	7.565	VV	249	4019	0.18%	0.009%
183	7.571	7.565	7.594	VV	233	3552	0.16%	0.008%
184	7.601	7.594	7.606	VV	391	1531	0.07%	0.003%
185	7.611	7.606	7.618	VV	219	1436	0.07%	0.003%
186	7.623	7.618	7.639	VV	184	1729	0.08%	0.004%
187	7.647	7.639	7.651	VV	198	1063	0.05%	0.002%
188	7.664	7.651	7.671	VV	183	1892	0.09%	0.004%
189	7.673	7.671	7.693	VV	212	1843	0.08%	0.004%
190	7.709	7.693	7.725	VV	243	2917	0.13%	0.006%
191	7.740	7.725	7.755	VV	205	2393	0.11%	0.005%
192	7.772	7.755	7.794	VV	213	2782	0.13%	0.006%
193	7.828	7.794	7.843	VV	185	3062	0.14%	0.006%
194	7.848	7.843	7.853	VV	172	794	0.04%	0.002%
195	7.865	7.853	7.882	VV	159	2208	0.10%	0.005%
196	7.900	7.882	7.906	VV	143	1394	0.06%	0.003%
197	7.912	7.906	7.922	VV	114	755	0.03%	0.002%
198	7.936	7.922	7.939	VV	146	1223	0.06%	0.003%
199	7.944	7.939	7.949	VV	150	814	0.04%	0.002%
200	7.952	7.949	7.956	VV	129	579	0.03%	0.001%

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201	7.959	7.956	7.970	VV	172	691	0.03%	0.001%
202	8.000	7.970	8.026	PV	1366	16671	0.76%	0.035%
203	8.028	8.026	8.041	VV	202	1036	0.05%	0.002%
204	8.044	8.041	8.053	VV	120	793	0.04%	0.002%
205	8.083	8.053	8.096	VV	178	2926	0.13%	0.006%
206	8.099	8.096	8.108	VV	123	633	0.03%	0.001%
207	8.140	8.108	8.153	VV	504	8479	0.39%	0.018%
208	8.171	8.153	8.194	VV	1785	21240	0.97%	0.045%
209	8.217	8.194	8.271	VV	246	7692	0.35%	0.016%
210	8.291	8.271	8.315	VV	225	4860	0.22%	0.010%
211	8.325	8.315	8.349	VV	309	4379	0.20%	0.009%
212	8.362	8.349	8.403	VV	213	5376	0.25%	0.011%
213	8.430	8.403	8.462	VV	242	6675	0.31%	0.014%
214	8.489	8.462	8.507	VV	437	7643	0.35%	0.016%
215	8.520	8.507	8.541	VV	367	5989	0.27%	0.013%
216	8.596	8.541	8.633	VV	1679	37482	1.72%	0.079%
217	8.705	8.633	8.810	VV	969	47850	2.19%	0.101%
218	8.831	8.810	8.880	VV	232	6458	0.30%	0.014%
219	8.927	8.880	8.938	PV	185	3575	0.16%	0.008%
220	8.963	8.938	8.979	VV	293	5127	0.23%	0.011%
221	9.003	8.979	9.015	VV	352	6374	0.29%	0.013%
222	9.031	9.015	9.047	VV	405	6140	0.28%	0.013%
223	9.071	9.047	9.122	VV	816	18241	0.84%	0.039%
224	9.134	9.122	9.176	VV	315	5805	0.27%	0.012%
225	9.204	9.176	9.234	VV	693	12486	0.57%	0.026%
226	9.250	9.234	9.296	VV	263	6518	0.30%	0.014%
227	9.327	9.296	9.389	VV	769	20378	0.93%	0.043%
228	9.423	9.389	9.489	VV	669	17742	0.81%	0.038%
229	9.519	9.489	9.556	VV	197	5196	0.24%	0.011%
230	9.572	9.556	9.589	VV	161	2196	0.10%	0.005%
231	9.614	9.589	9.633	VV	401	5897	0.27%	0.012%
232	9.659	9.633	9.736	VV	434	12607	0.58%	0.027%
233	9.758	9.736	9.781	VV	940	15290	0.70%	0.032%
234	9.805	9.781	9.864	VV	1147	25545	1.17%	0.054%
235	9.881	9.864	9.914	VV	295	5788	0.27%	0.012%
236	9.956	9.914	9.976	VV	424	8751	0.40%	0.019%
237	9.987	9.976	10.010	VV	178	2248	0.10%	0.005%
238	10.074	10.010	10.187	VV	37342	494973	22.67%	1.048%
239	10.206	10.187	10.269	VV	2187	43075	1.97%	0.091%
240	10.278	10.269	10.289	VV	398	4651	0.21%	0.010%
241	10.312	10.289	10.407	VV	741	20435	0.94%	0.043%
242	10.419	10.407	10.449	VV	156	2959	0.14%	0.006%
243	10.458	10.449	10.491	VV	149	2394	0.11%	0.005%

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244	10.504	10.491	10.515	VV	130	1075	0.05%	0.002%
245	10.547	10.515	10.581	VV	6614	76485	3.50%	0.162%
246	10.594	10.581	10.612	VV	383	5607	0.26%	0.012%
247	10.650	10.612	10.706	VV	706	21868	1.00%	0.046%
248	10.727	10.706	10.744	VV	257	4631	0.21%	0.010%
249	10.771	10.744	10.779	VV	314	4290	0.20%	0.009%
250	10.831	10.779	10.839	VV	622	15182	0.70%	0.032%
251	10.848	10.839	10.887	VV	602	12299	0.56%	0.026%
252	10.900	10.887	10.909	VV	384	4744	0.22%	0.010%
253	10.944	10.909	10.987	VV	941	25247	1.16%	0.053%
254	11.016	10.987	11.032	VV	408	8219	0.38%	0.017%
255	11.044	11.032	11.062	VV	435	5730	0.26%	0.012%
256	11.086	11.062	11.122	VV	350	7547	0.35%	0.016%
257	11.139	11.122	11.161	VV	168	2459	0.11%	0.005%
258	11.171	11.161	11.184	VV	234	2697	0.12%	0.006%
259	11.203	11.184	11.219	VV	1076	13543	0.62%	0.029%
260	11.231	11.219	11.258	VV	888	14040	0.64%	0.030%
261	11.278	11.258	11.303	VV	673	12429	0.57%	0.026%
262	11.321	11.303	11.357	VV	414	8939	0.41%	0.019%
263	11.377	11.357	11.413	VV	314	6982	0.32%	0.015%
264	11.422	11.413	11.441	VV	138	1582	0.07%	0.003%
265	11.459	11.441	11.480	PV	173	2413	0.11%	0.005%
266	11.509	11.480	11.557	VV	246	5664	0.26%	0.012%
267	11.583	11.557	11.606	VV	310	4976	0.23%	0.011%
268	11.652	11.606	11.676	VV	1997	29115	1.33%	0.062%
269	11.697	11.676	11.705	VV	436	6017	0.28%	0.013%
270	11.730	11.705	11.786	VV	2494	38828	1.78%	0.082%
271	11.811	11.786	11.834	VV	2144	27981	1.28%	0.059%
272	11.845	11.834	11.885	VV	675	9758	0.45%	0.021%
273	11.898	11.885	11.905	VV	214	1946	0.09%	0.004%
274	11.921	11.905	11.932	VV	470	5604	0.26%	0.012%
275	11.939	11.932	11.978	VV	405	9802	0.45%	0.021%
276	12.005	11.978	12.026	VV	579	9412	0.43%	0.020%
277	12.072	12.026	12.124	VV	2335	53738	2.46%	0.114%
278	12.135	12.124	12.172	VV	862	15039	0.69%	0.032%
279	12.184	12.172	12.241	VV	365	5349	0.24%	0.011%
280	12.262	12.241	12.286	PV	180	2257	0.10%	0.005%
281	12.324	12.286	12.359	PV	742	13091	0.60%	0.028%
282	12.374	12.359	12.390	VV	330	4525	0.21%	0.010%
283	12.414	12.390	12.462	VV	1916	25843	1.18%	0.055%
284	12.488	12.462	12.499	VV	240	2600	0.12%	0.006%
285	12.507	12.499	12.517	VV	108	751	0.03%	0.002%
286	12.571	12.517	12.639	VV	38108	468704	21.47%	0.992%

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287	12.652	12.639	12.669	VV	1077	15729	0.72%	0.033%
288	12.683	12.669	12.768	VV	1035	37569	1.72%	0.080%
289	12.793	12.768	12.829	VV	582	12108	0.55%	0.026%
290	12.846	12.829	12.872	VV	336	6146	0.28%	0.013%
291	12.904	12.872	12.931	VV	997	22879	1.05%	0.048%
292	12.964	12.931	13.004	VV	2127	36585	1.68%	0.077%
293	13.030	13.004	13.079	VV	5275	93212	4.27%	0.197%
294	13.111	13.079	13.142	PV	1229	22549	1.03%	0.048%
295	13.165	13.142	13.197	VV	1078	21019	0.96%	0.044%
296	13.218	13.197	13.251	VV	504	10902	0.50%	0.023%
297	13.268	13.251	13.302	VV	643	11274	0.52%	0.024%
298	13.323	13.302	13.344	VV	1650	20252	0.93%	0.043%
299	13.372	13.344	13.404	VV	1346	30292	1.39%	0.064%
300	13.419	13.404	13.437	VV	458	7758	0.36%	0.016%
301	13.454	13.437	13.486	VV	612	8154	0.37%	0.017%
302	13.495	13.486	13.506	VV	219	1989	0.09%	0.004%
303	13.528	13.506	13.553	VV	373	5757	0.26%	0.012%
304	13.579	13.553	13.591	PV	1400	15665	0.72%	0.033%
305	13.604	13.591	13.638	VV	1368	28891	1.32%	0.061%
306	13.656	13.638	13.679	VV	883	19417	0.89%	0.041%
307	13.683	13.679	13.704	VV	737	10420	0.48%	0.022%
308	13.718	13.704	13.737	VV	712	12112	0.55%	0.026%
309	13.774	13.737	13.792	VV	1052	23155	1.06%	0.049%
310	13.810	13.792	13.878	VV	4147	75919	3.48%	0.161%
311	13.920	13.878	13.954	VV	835	26868	1.23%	0.057%
312	13.987	13.954	14.005	VV	591	14518	0.66%	0.031%
313	14.040	14.005	14.089	VV	1300	36044	1.65%	0.076%
314	14.119	14.089	14.140	VV	2064	33385	1.53%	0.071%
315	14.166	14.140	14.217	VV	3142	55234	2.53%	0.117%
316	14.231	14.217	14.259	VV	516	9172	0.42%	0.019%
317	14.286	14.259	14.334	VV	494	9693	0.44%	0.021%
318	14.390	14.334	14.426	VV	278	9078	0.42%	0.019%
319	14.470	14.426	14.490	VV	174	3617	0.17%	0.008%
320	14.563	14.490	14.636	PV	1268	44544	2.04%	0.094%
321	14.656	14.636	14.674	VV	407	6114	0.28%	0.013%
322	14.683	14.674	14.696	VV	215	1805	0.08%	0.004%
323	14.732	14.696	14.766	VV	3960	61174	2.80%	0.129%
324	14.789	14.766	14.808	VV	932	14738	0.67%	0.031%
325	14.833	14.808	14.876	VV	826	19669	0.90%	0.042%
326	14.892	14.876	14.915	VV	533	6288	0.29%	0.013%
327	14.951	14.915	14.977	VV	1167	16242	0.74%	0.034%
328	14.982	14.977	14.992	VV	143	890	0.04%	0.002%
329	15.070	14.992	15.108	VV	78132	1053214	48.24%	2.230%
330	15.121	15.108	15.144	VV	537	8686	0.40%	0.018%

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331	15.162	15.144	15.190	VV	941	12324	0.56%	0.026%
332	15.273	15.190	15.306	VV	5368	102207	4.68%	0.216%
333	15.320	15.306	15.346	VV	416	5015	0.23%	0.011%
334	15.386	15.346	15.422	PV	333	9448	0.43%	0.020%
335	15.431	15.422	15.444	VV	163	1653	0.08%	0.003%
336	15.468	15.444	15.494	VV	243	4273	0.20%	0.009%
337	15.612	15.494	15.622	PV	364	7444	0.34%	0.016%
338	15.655	15.622	15.751	VV	24279	482776	22.11%	1.022%
339	15.756	15.751	15.764	VV	301	2278	0.10%	0.005%
340	15.797	15.764	15.837	VV	6044	112656	5.16%	0.238%
341	15.869	15.837	15.904	VV	997	21807	1.00%	0.046%
342	15.926	15.904	15.952	VV	368	6202	0.28%	0.013%
343	15.988	15.952	16.002	VV	163	4006	0.18%	0.008%
344	16.045	16.002	16.064	PV	435	8822	0.40%	0.019%
345	16.117	16.064	16.136	VV	522	11222	0.51%	0.024%
346	16.177	16.136	16.196	PV	779	13640	0.62%	0.029%
347	16.235	16.196	16.244	VV	225	6738	0.31%	0.014%
348	16.297	16.244	16.333	VV	6455	91588	4.19%	0.194%
349	16.364	16.333	16.381	PV	294	4376	0.20%	0.009%
350	16.442	16.381	16.457	VV	190	5885	0.27%	0.012%
351	16.500	16.457	16.509	PV	409	8487	0.39%	0.018%
352	16.595	16.509	16.631	VV	2290	52053	2.38%	0.110%
353	16.678	16.631	16.735	VV	2574	68493	3.14%	0.145%
354	16.782	16.735	16.824	VV	6218	92459	4.23%	0.196%
355	16.865	16.824	16.881	PV	1008	16497	0.76%	0.035%
356	16.912	16.881	16.964	VV	7493	126701	5.80%	0.268%
357	16.975	16.964	16.999	VV	603	7273	0.33%	0.015%
358	17.092	16.999	17.116	PV	1131	46895	2.15%	0.099%
359	17.151	17.116	17.167	VV	941	19785	0.91%	0.042%
360	17.251	17.167	17.281	VV	6306	95919	4.39%	0.203%
361	17.300	17.281	17.320	VV	878	11255	0.52%	0.024%
362	17.551	17.320	17.561	PV	581	-2100	-0.10%	-0.004%
363	17.628	17.561	17.666	VV	1799	59140	2.71%	0.125%
364	17.702	17.666	17.729	VV	5722	89351	4.09%	0.189%
365	17.809	17.729	17.820	VV	385	12287	0.56%	0.026%
366	17.937	17.820	17.949	PV	1156	66561	3.05%	0.141%
367	17.993	17.949	18.016	VV	1222	31588	1.45%	0.067%
368	18.031	18.016	18.056	VV	848	11359	0.52%	0.024%
369	18.095	18.056	18.117	PV	1823	34737	1.59%	0.074%
370	18.142	18.117	18.166	VV	5767	81416	3.73%	0.172%
371	18.287	18.166	18.310	PV	1916	85863	3.93%	0.182%
372	18.351	18.310	18.379	VV	2688	80464	3.69%	0.170%
373	18.385	18.379	18.399	VV	1950	21749	1.00%	0.046%

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374	18.465	18.399	18.479	VV	3635	119314	5.46%	0.253%
375	18.506	18.479	18.545	VV	14312	340432	15.59%	0.721%
376	18.567	18.545	18.604	VV	7179	146152	6.69%	0.309%
377	18.656	18.604	18.680	VV	4265	122482	5.61%	0.259%
378	18.712	18.680	18.724	VV	3400	86638	3.97%	0.183%
379	18.735	18.724	18.752	VV	3278	49619	2.27%	0.105%
380	18.794	18.752	18.803	VV	3993	104210	4.77%	0.221%
381	18.883	18.803	18.897	VV	4790	228799	10.48%	0.484%
382	18.975	18.897	19.027	VV	12346	565102	25.88%	1.196%
383	19.068	19.027	19.077	VV	7278	198737	9.10%	0.421%
384	19.092	19.077	19.133	VV	7612	228290	10.46%	0.483%
385	19.247	19.133	19.256	VV	8333	529083	24.23%	1.120%
386	19.338	19.256	19.366	VV	22935	902410	41.33%	1.910%
387	19.376	19.366	19.436	VV	17596	552876	25.32%	1.170%
388	19.477	19.436	19.489	VV	11663	338939	15.52%	0.717%
389	19.499	19.489	19.514	VV	11636	166955	7.65%	0.353%
390	19.548	19.514	19.559	VV	14732	349328	16.00%	0.739%
391	19.577	19.559	19.604	VV	16007	392420	17.97%	0.831%
392	19.660	19.604	19.712	VV	17354	1028930	47.12%	2.178%
393	19.764	19.712	19.802	VV	18649	886406	40.60%	1.876%
394	19.826	19.802	19.834	VV	17478	323906	14.83%	0.686%
395	19.866	19.834	19.893	VV	18027	597436	27.36%	1.265%
396	19.954	19.893	19.962	VV	19629	758569	34.74%	1.606%
397	19.973	19.962	19.987	VV	20013	273446	12.52%	0.579%
398	20.031	19.987	20.041	VV	23372	690668	31.63%	1.462%
399	20.049	20.041	20.069	VV	22766	378560	17.34%	0.801%
400	20.083	20.069	20.099	VV	23474	407780	18.68%	0.863%
401	20.141	20.099	20.205	VV	27915	1592884	72.95%	3.372%
402	20.214	20.205	20.226	VV	23005	278539	12.76%	0.590%
403	20.239	20.226	20.251	VV	24747	360741	16.52%	0.764%
404	20.301	20.251	20.311	VV	27350	936808	42.90%	1.983%
405	20.353	20.311	20.364	VV	32560	974155	44.61%	2.062%
406	20.388	20.364	20.401	VV	36750	751169	34.40%	1.590%
407	20.410	20.401	20.437	VV	34374	728356	33.36%	1.542%
408	20.445	20.437	20.485	VV	33914	921557	42.21%	1.951%
409	20.512	20.485	20.537	VV	33354	995452	45.59%	2.107%
410	20.612	20.537	20.624	VV	34984	1696602	77.70%	3.592%
411	20.666	20.624	20.712	VV	50896	2183484	100.00%	4.622%
412	20.720	20.712	20.729	VV	37251	365725	16.75%	0.774%
413	20.737	20.729	20.762	VV	36860	699719	32.05%	1.481%
414	20.780	20.762	20.817	VV	35903	1148030	52.58%	2.430%
415	20.824	20.817	20.847	VV	33443	592220	27.12%	1.254%
416	20.864	20.847	20.874	VV	34166	519978	23.81%	1.101%

					rteres				
417	20.906	20.874	20.916	VV	34525	851815	39.01%	1.803%	
418	20.952	20.916	20.964	VV	35340	985210	45.12%	2.086%	
419	20.974	20.964	20.983	VV	35265	388728	17.80%	0.823%	
420	21.002	20.983	21.069	VV	35803	1680507	76.96%	3.557%	
421	21.090	21.069	21.100	VV	28832	521050	23.86%	1.103%	
422	21.115	21.100	21.143	VV	29178	735592	33.69%	1.557%	
423	21.179	21.143	21.247	VV	30744	1739839	79.68%	3.683%	
424	21.268	21.247	21.297	VV	26096	724901	33.20%	1.535%	
425	21.306	21.297	21.328	VV	22001	386606	17.71%	0.818%	
426	21.338	21.328	21.347	VV	19713	220965	10.12%	0.468%	
427	21.386	21.347	21.408	VV	19616	703480	32.22%	1.489%	
428	21.435	21.408	21.451	VV	19040	473905	21.70%	1.003%	
429	21.516	21.451	21.584	VV	23494	1610265	73.75%	3.409%	
430	21.599	21.584	21.700	VV	16861	915574	41.93%	1.938%	
431	21.773	21.700	21.781	VV	14498	564321	25.85%	1.195%	
432	21.787	21.781	21.819	VV	14260	298227	13.66%	0.631%	
433	21.854	21.819	21.863	VV	12985	333950	15.29%	0.707%	
434	21.884	21.863	21.919	VV	13751	431812	19.78%	0.914%	
435	21.931	21.919	21.947	VV	13710	218635	10.01%	0.463%	
436	21.973	21.947	22.017	VV	14097	517995	23.72%	1.097%	
437	22.030	22.017	22.114	VV	10735	469993	21.52%	0.995%	
438	22.126	22.114	22.152	VV	5509	111430	5.10%	0.236%	
439	22.196	22.152	22.212	VV	5084	165255	7.57%	0.350%	
440	22.228	22.212	22.270	VV	4138	83060	3.80%	0.176%	
441	22.345	22.270	22.385	VV	1996	56261	2.58%	0.119%	
					Sum of corrected areas:		47238890		

FF090525.M Fri Oct 03 07:18:38 2025



CALIBRATION SUMMARY

TPH GC INITIAL CALIBRATION SUMMARY

Lab Name: Alliance

Contract: YANN01

ProjectID: Edison Yard

Lab Code: ACE

SDG No.: Q3238

Calibration Sequence : FF090525		Test : TPH GC	
Concentration (PPM)	Area Count	Reference Factor	File ID
850	137068275	161257	FF016336.D
340	37986080	111724	FF016337.D
170	21402125	125895	FF016338.D
85	11165009	131353	FF016339.D
1700	176262056	103684	FF016340.D
AVG RF : 126783		% RSD : 17.506	AVG RT : 15.071

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: YANN01
ProjectID: Edison Yard
Lab Code: ACE SDG No.: Q3238
DataFile: FF016493.D Analyst Name: YP\AJ Analyst Date: 10-01-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	100251627	117943	126783	6.973

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
 Data File : FF016493.D
 Signal(s) : FID2B.ch
 Acq On : 01 Oct 2025 15:54
 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: Oct 03 06:41:57 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
 Quant Title :
 QLast Update : Fri Sep 05 15:09:50 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...	15.071	5420032	41.857 ug/ml
Target Compounds			
1) N-OCTANE	2.048	6148020	46.759 ug/ml
2) N-DECANE	4.585	6330970	47.545 ug/ml
3) N-DODECANE	6.765	6399809	47.076 ug/ml
4) N-TETRADECANE	8.598	6388874	45.824 ug/ml
5) N-HEXADECANE	10.207	6395386	45.019 ug/ml
6) N-OCTADECANE	11.654	6470048	44.011 ug/ml
7) N-EICOSANE	12.967	6428168	43.091 ug/ml
8) N-DOCOSANE	14.169	6160920	42.372 ug/ml
10) N-TETRACOSANE	15.276	6049114	41.742 ug/ml
11) N-HEXACOSANE	16.300	5895350	41.259 ug/ml
12) N-OCTACOSANE	17.253	5710304	41.050 ug/ml
13) N-TRIACONTANE	18.145	5694789	41.209 ug/ml
14) N-DOTRIACONTANE	18.979	5554118	43.002 ug/ml
15) N-TETRATRIACONTANE	19.765	5355760	48.821 ug/ml
16) N-HEXATRIACONTANE	20.507	5092003	57.840 ug/ml
17) N-OCTATRIACONTANE	21.268	5068821	68.227 ug/ml
18) N-TETRACONTANE	22.218	5109173	78.178 ug/ml

(f)=RT Delta > 1/2 Window

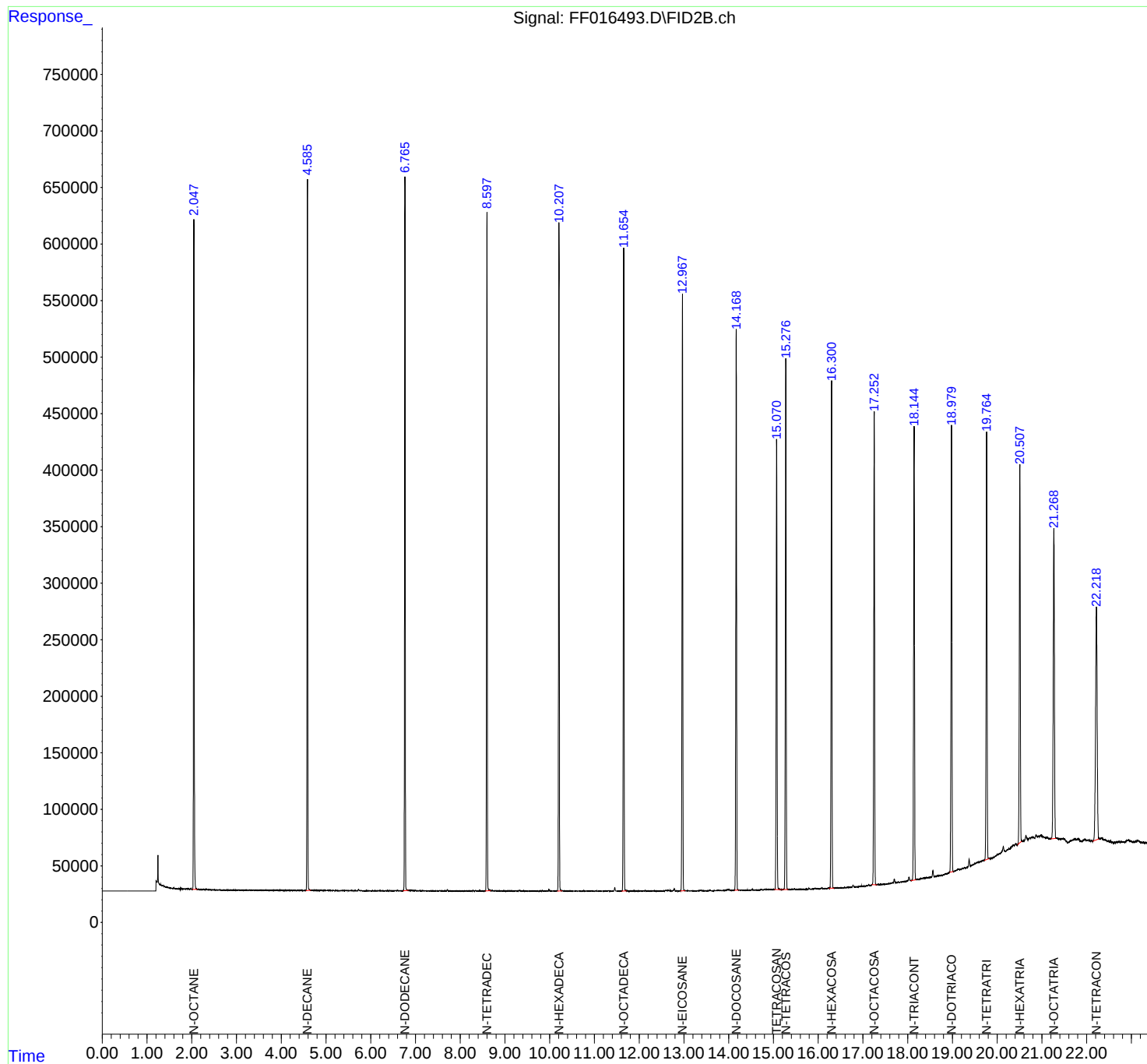
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016493.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 15:54
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: Oct 03 06:41:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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\FF100125\
Data File : FF016493.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 15:54
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.048	2.012	2.127	BB	591770	6148020	95.02%	5.818%
2	4.585	4.550	4.665	BB	628613	6330970	97.85%	5.991%
3	6.765	6.724	6.842	BB	632828	6399809	98.91%	6.056%
4	8.598	8.562	8.684	BB	598660	6388874	98.75%	6.046%
5	10.207	10.170	10.280	BB	590832	6395386	98.85%	6.052%
6	11.654	11.610	11.715	BB	568358	6470048	100.00%	6.123%
7	12.968	12.920	13.030	BB	528339	6428168	99.35%	6.083%
8	14.169	14.129	14.222	BB	496132	6160920	95.22%	5.830%
9	15.071	15.010	15.177	BB	398295	5420032	83.77%	5.129%
10	15.276	15.189	15.334	BB	468363	6049114	93.49%	5.724%
11	16.300	16.235	16.359	BB	449899	5895350	91.12%	5.579%
12	17.253	17.200	17.312	BV	417802	5710304	88.26%	5.404%
13	18.145	18.074	18.187	BB	402332	5694789	88.02%	5.389%
14	18.979	18.940	19.017	BB	395381	5554118	85.84%	5.256%
15	19.765	19.720	19.820	BB	377312	5355760	82.78%	5.068%
16	20.507	20.460	20.543	BV	334494	5092003	78.70%	4.819%
17	21.268	21.200	21.315	BV	274181	5068821	78.34%	4.797%
18	22.218	22.140	22.276	BV	206121	5109173	78.97%	4.835%
Sum of corrected areas:						105671657		

FF090525.M Fri Oct 03 07:10:42 2025

TPH GC CONTINUING CALIBRATION SUMMARY

50 PPM TRPH STD

Lab Name: Alliane Contract: YANN01
ProjectID: Edison Yard
Lab Code: ACE SDG No.: Q3238
DataFile: FF016506.D Analyst Name: YP\AJ Analyst Date: 10-01-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
850	94216394	110843	126783	12.573

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
 Data File : FF016506.D
 Signal(s) : FID2B.ch
 Acq On : 01 Oct 2025 22:20
 Operator : YP\AJ
 Sample : 50 PPM TRPH STD
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 50 PPM TRPH STD

Integration File: autoint1.e
 Quant Time: Oct 03 06:45:02 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
 Quant Title :
 QLast Update : Fri Sep 05 15:09:50 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...	15.072	5417037	41.834 ug/ml
Target Compounds			
1) N-OCTANE	2.046	6092319	46.335 ug/ml
2) N-DECANE	4.586	6273785	47.116 ug/ml
3) N-DODECANE	6.765	6349592	46.707 ug/ml
4) N-TETRADECANE	8.599	6330281	45.404 ug/ml
5) N-HEXADECANE	10.209	6351623	44.711 ug/ml
6) N-OCTADECANE	11.655	6447396	43.857 ug/ml
7) N-EICOSANE	12.968	6423658	43.060 ug/ml
8) N-DOCOSANE	14.170	6168130	42.421 ug/ml
10) N-TETRACOSANE	15.277	6052002	41.762 ug/ml
11) N-HEXACOSANE	16.301	5895519	41.261 ug/ml
12) N-OCTACOSANE	17.254	5701766	40.989 ug/ml
13) N-TRIACONTANE	18.145	5658120	40.944 ug/ml
14) N-DOTRIACONTANE	18.980	5334493	41.302 ug/ml
15) N-TETRATRIACONTANE	19.766	4641357	42.309 ug/ml
16) N-HEXATRIACONTANE	20.510	3887095	44.154 ug/ml
17) N-OCTATRIACONTANE	21.268	3439713	46.299 ug/ml
18) N-TETRACONTANE	22.218	3169545	48.499 ug/ml

(f)=RT Delta > 1/2 Window

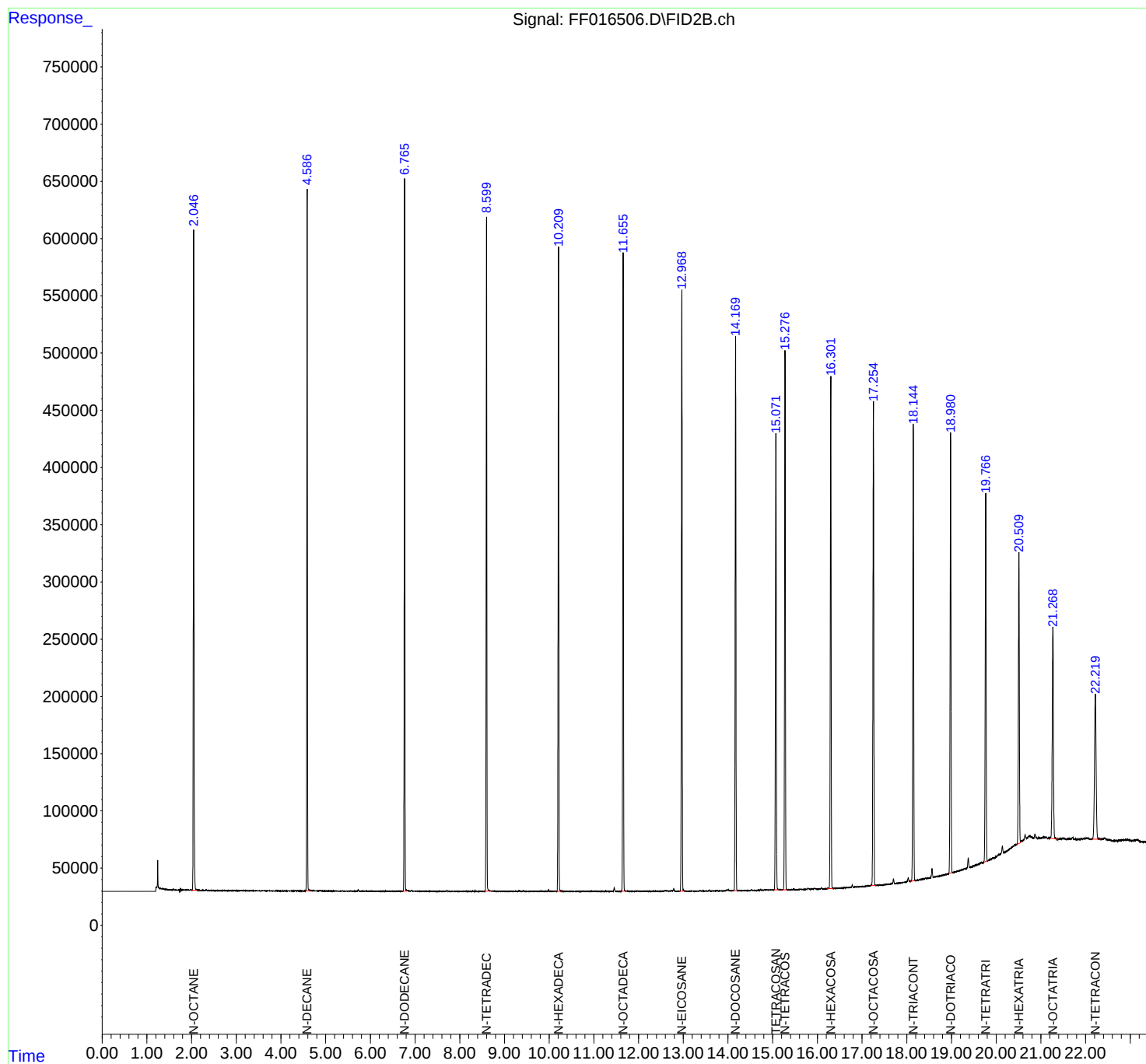
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016506.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 22:20
Operator : YP\AJ
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM TRPH STD

Integration File: autoint1.e
Quant Time: Oct 03 06:45:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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\FF100125\
Data File : FF016506.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 22:20
Sample : 50 PPM TRPH STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.046	2.010	2.127	BB	575466	6092319	94.49%	6.115%
2	4.586	4.549	4.665	BB	612668	6273785	97.31%	6.297%
3	6.765	6.719	6.835	BB	622993	6349592	98.48%	6.373%
4	8.599	8.562	8.690	BB	589895	6330281	98.18%	6.354%
5	10.209	10.167	10.287	BB	563469	6351623	98.51%	6.375%
6	11.655	11.612	11.722	BB	558514	6447396	100.00%	6.471%
7	12.968	12.924	13.037	BB	526248	6423658	99.63%	6.447%
8	14.170	14.107	14.215	BB	482915	6168130	95.67%	6.191%
9	15.072	15.007	15.142	BV	398452	5417037	84.02%	5.437%
10	15.277	15.192	15.329	BB	469526	6052002	93.87%	6.074%
11	16.301	16.212	16.355	BB	446734	5895519	91.44%	5.917%
12	17.254	17.200	17.309	BB	421515	5701766	88.44%	5.723%
13	18.145	18.070	18.182	BB	397924	5658120	87.76%	5.679%
14	18.980	18.940	19.020	BV	383817	5334493	82.74%	5.354%
15	19.766	19.720	19.809	BV	322760	4641357	71.99%	4.658%
16	20.510	20.460	20.547	BV	253686	3887095	60.29%	3.901%
17	21.268	21.200	21.379	BB	184941	3439713	53.35%	3.452%
18	22.218	22.140	22.337	BB	127060	3169545	49.16%	3.181%
Sum of corrected areas:						99633429		

FF090525.M Fri Oct 03 07:12:11 2025

Analytical Sequence

Client: Yannuzzi Group, Inc.

SDG No.: Q3238

Project: Edison Yard

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 15.071					
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	LBLK01	01 Oct 2025 15:24	FF016492.D	15.069	
50 PPM TRPH STD	50 PPM TRPH STD	01 Oct 2025 15:54	FF016493.D	15.071	
PB169938BL	PB169938BL	01 Oct 2025 16:53	FF016495.D	15.066	
PB169938BS	PB169938BS	01 Oct 2025 17:24	FF016496.D	15.067	
WASTEMS	Q3216-01MS	01 Oct 2025 18:53	FF016499.D	15.071	
WASTEMSD	Q3216-01MSD	01 Oct 2025 19:23	FF016500.D	15.071	
RCA	Q3238-01	01 Oct 2025 19:52	FF016501.D	15.070	
PIBLK02	LBLK02	01 Oct 2025 21:50	FF016505.D	15.068	
50 PPM TRPH STD	50 PPM TRPH STD	01 Oct 2025 22:20	FF016506.D	15.072	



QC SAMPLE DATA

Report of Analysis

Client:	Yannuzzi Group, Inc.		Date Collected:		
Project:	Edison Yard		Date Received:		
Client Sample ID:	PB169938BL		SDG No.:	Q3238	
Lab Sample ID:	PB169938BL		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	100	Decanted:
Sample Wt/Vol:	30.02	Units: g	Final Vol:	1	mL
Soil Aliquot Vol:		uL	Test:	TPH GC	
Extraction Type:			Injection Volume :		
GPC Factor :		PH :			
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016495.D	1	10/01/25 10:40	10/01/25 16:53	PB169938

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	384	U	384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	13.3		37 - 130	67%	SPK: 20

Comments:

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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016495.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 16:53
Operator : YP\AJ
Sample : PB169938BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB169938BL

Integration File: autoint1.e
Quant Time: Oct 03 06:42:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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...	15.066	1722943	13.306 ug/ml

Target Compounds

(f)=RT Delta > 1/2 Window

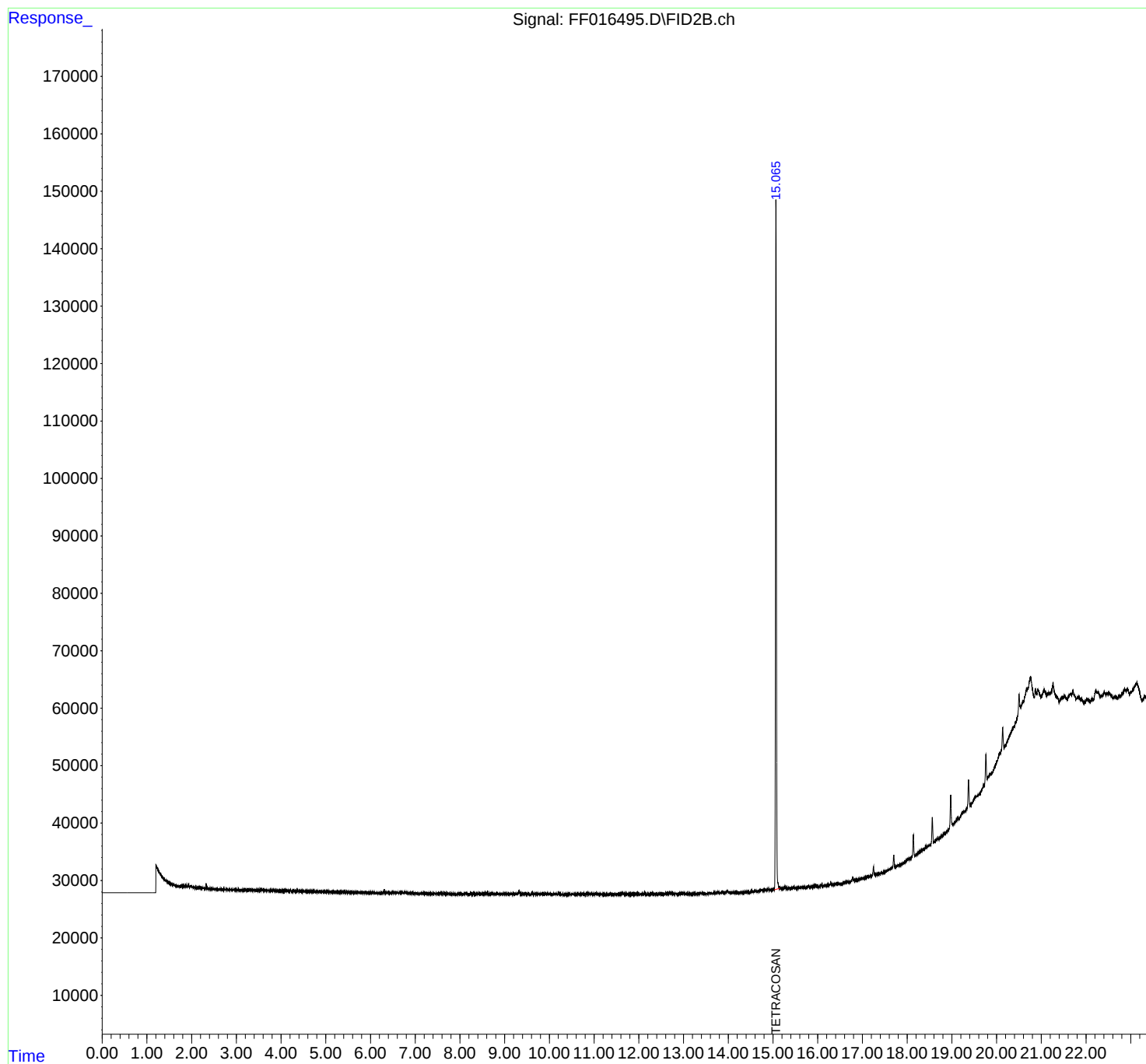
(m)=manual int.

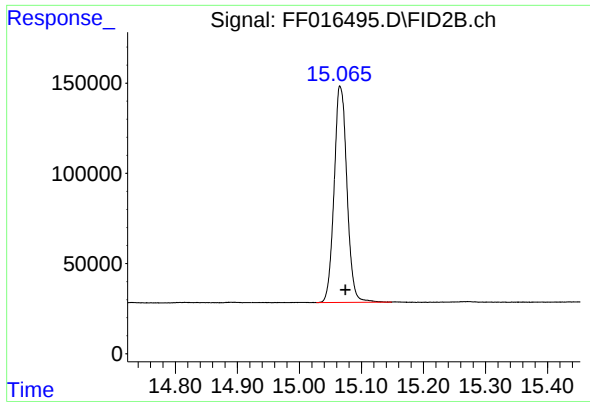
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016495.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 16:53
Operator : YP\AJ
Sample : PB169938BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB169938BL

Integration File: autoint1.e
Quant Time: Oct 03 06:42:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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.: 15.066 min
Delta R.T.: -0.009 min
Response: 1722943
Conc: 13.31 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169938BL

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016495.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 16:53
Sample : PB169938BL
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.066	15.027	15.149	BB	119916	1722943	100.00%	100.000%
Sum of corrected areas:						1722943		

FF090525.M Fri Oct 03 07:11:09 2025

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	10/01/25
Project:	Edison Yard	Date Received:	10/01/25
Client Sample ID:	PIBLK-FF016492.D	SDG No.:	Q3238
Lab Sample ID:	I.BLK-FF016492.D	Matrix:	Water
Analytical Method:	8015D TPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Decanted:	
Soil Aliquot Vol:	uL	Final Vol:	1 mL
Extraction Type:		Test:	TPH GC
GPC Factor :	PH :	Injection Volume :	
Prep Method :	SW3510		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
FF016492.D	1		10/01/25	FF100125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	14.2		29 - 130	71%	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\FF100125\
Data File : FF016492.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 15:24
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: Oct 03 06:41:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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...	15.069	1837833	14.193 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

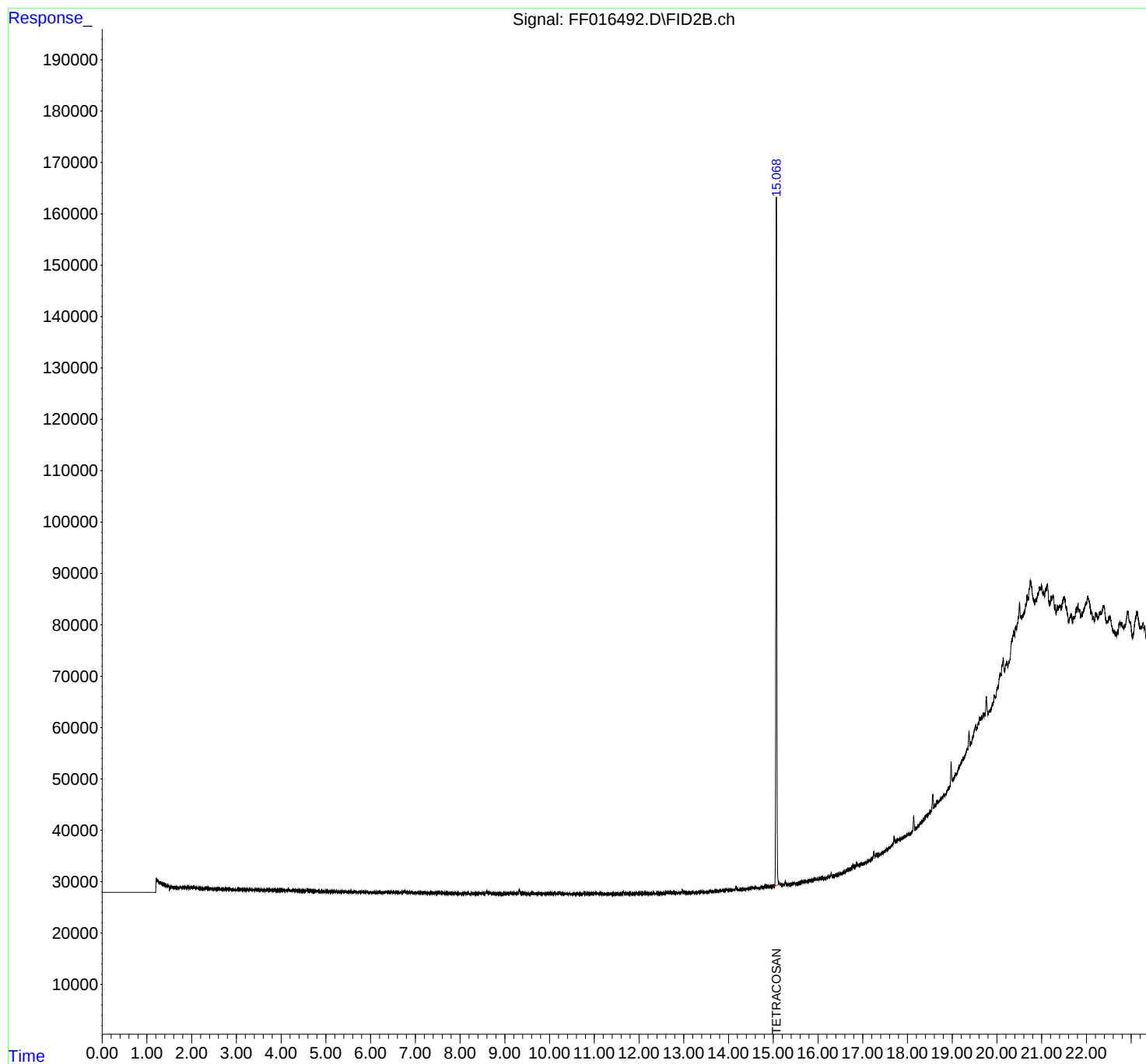
(m)=manual int.

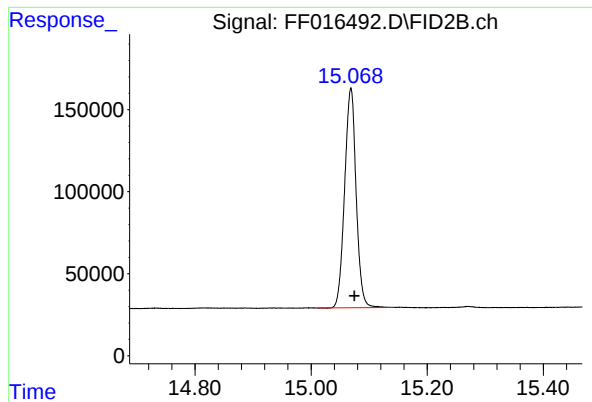
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016492.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 15:24
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 03 06:41:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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.: 15.069 min
Delta R.T.: -0.006 min
Response: 1837833
Conc: 14.19 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016492.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 15:24
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.069	15.012	15.142	BB	133994	1837833	100.00%	100.000%
Sum of corrected areas:						1837833		

FF090525.M Fri Oct 03 07:10:13 2025

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	10/01/25
Project:	Edison Yard	Date Received:	10/01/25
Client Sample ID:	PIBLK-FF016505.D	SDG No.:	Q3238
Lab Sample ID:	I.BLK-FF016505.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
FF016505.D	1		10/01/25	FF100125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
PHC	Petroleum Hydrocarbons	12.0	U	12.0	85.0	ug/L
SURROGATES						
16416-32-3	TETRACOSANE-d50	13.7		29 - 130	68%	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\FF100125\
Data File : FF016505.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 21:50
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: Oct 03 06:44:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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...	15.068	1768512	13.658 ug/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

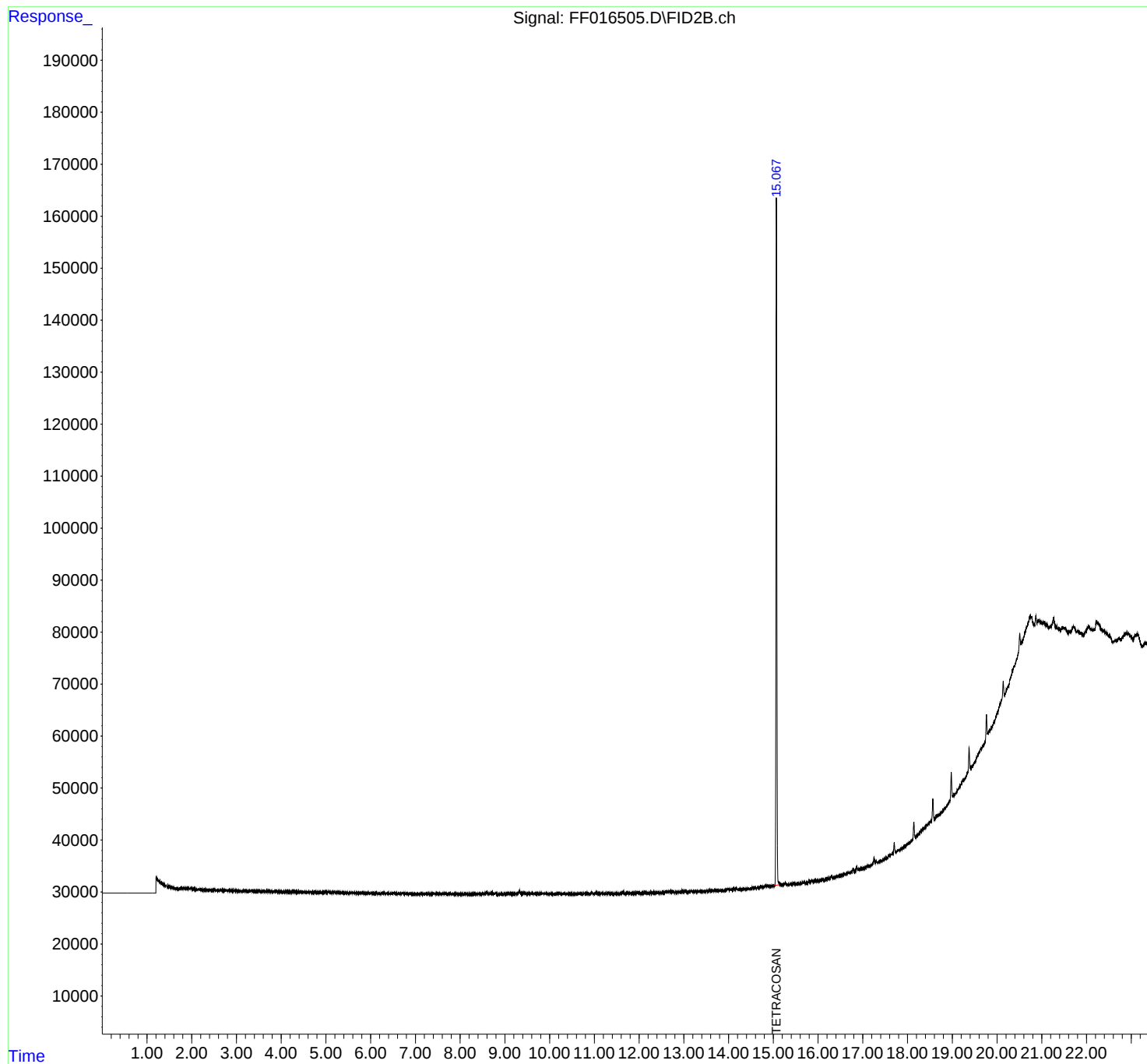
(m)=manual int.

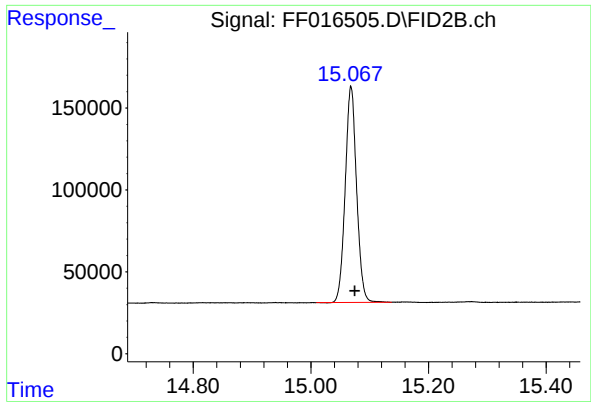
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016505.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 21:50
Operator : YP\AJ
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Oct 03 06:44:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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.: 15.068 min
Delta R.T.: -0.006 min
Response: 1768512
Conc: 13.66 ug/ml

Instrument :
FID_F
ClientSampleId :
I.BLK

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016505.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 21:50
Sample : I.BLK
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.068	15.009	15.137	BB	131462	1768512	100.00%	100.000%
Sum of corrected areas:						1768512		

FF090525.M Fri Oct 03 07:11:45 2025

Report of Analysis

Client:	Yannuzzi Group, Inc.		Date Collected:		
Project:	Edison Yard		Date Received:		
Client Sample ID:	PB169938BS		SDG No.:	Q3238	
Lab Sample ID:	PB169938BS		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
FF016496.D	1	10/01/25 10:40	10/01/25 17:24	PB169938

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	8260		384	2830	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	13.2		37 - 130	66%	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\FF100125\
 Data File : FF016496.D
 Signal(s) : FID2B.ch
 Acq On : 01 Oct 2025 17:24
 Operator : YP\AJ
 Sample : PB169938BS
 Misc :
 ALS Vial : 72 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 PB169938BS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/03/2025
 Supervised By :mohammad ahmed 10/04/2025

Integration File: autoint1.e
 Quant Time: Oct 03 06:42:41 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
 Quant Title :
 QLast Update : Fri Sep 05 15:09:50 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...	15.067	1709257	13.200 ug/ml
Target Compounds			
1) N-OCTANE	2.046	1647462	12.530 ug/ml
2) N-DECANE	4.581	1996236	14.992 ug/ml
3) N-DODECANE	6.760	2044206	15.037 ug/ml
4) N-TETRADECANE	8.594	2076117	14.891 ug/ml
5) N-HEXADECANE	10.204	2085229	14.678 ug/ml
6) N-OCTADECANE	11.650	2126193	14.463 ug/ml
7) N-EICOSANE	12.963	2156452	14.456 ug/ml
8) N-DOCOSANE	14.166	2067030	14.216 ug/ml
10) N-TETRACOSANE	15.272	2034563	14.040 ug/ml
11) N-HEXACOSANE	16.295	1953018	13.668 ug/ml
12) N-OCTACOSANE	17.249	1933936	13.903 ug/ml
13) N-TRIACONTANE	18.139	1951103	14.119 ug/ml
14) N-DOTRIACONTANE	18.976	1885196	14.596 ug/ml
15) N-TETRATRIACONTANE	19.762	1663364	15.163 ug/ml
16) N-HEXATRIACONTANE	20.503	1377743	15.650 ug/ml
17) N-OCTATRIACONTANE	21.263	1223060	16.463 ug/mlm
18) N-TETRACONTANE	22.210	1155042	17.674 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016496.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 17:24
Operator : YP\AJ
Sample : PB169938BS
Misc :
ALS Vial : 72 Sample Multiplier: 1

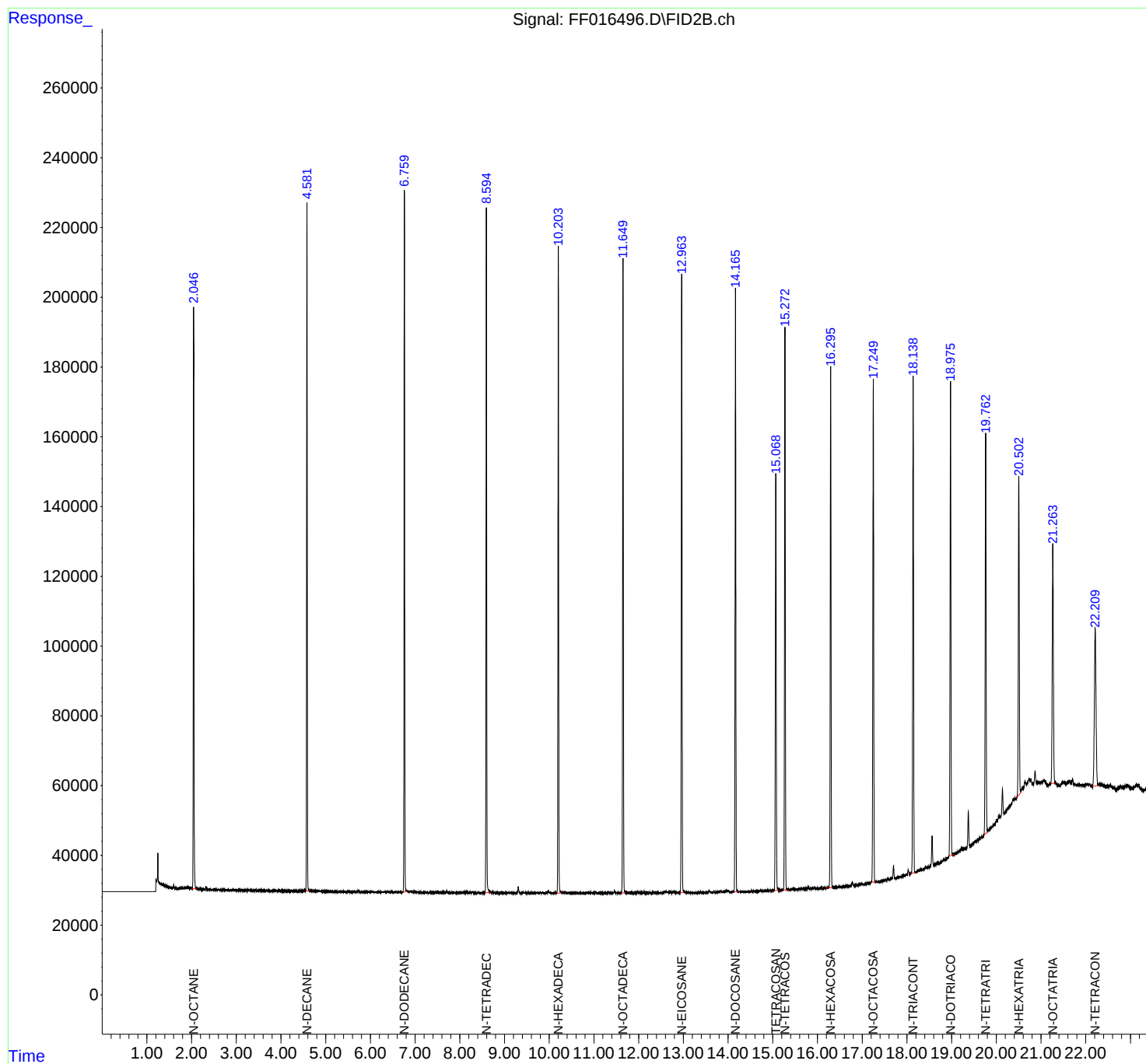
Instrument :
FID_F
ClientSampleId :
PB169938BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/03/2025
Supervised By :mohammad ahmed 10/04/2025

Integration File: autoint1.e
Quant Time: Oct 03 06:42:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_F

ClientSampleId :

PB169938BS

Area Percent

Manual IntegrationsAPPROVED

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Da
Data File : FF016496.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 17:24
Sample : PB169938BS
Misc :
ALS Vial : 72 Sample Multiplier: 1

Reviewed By :Yogesh Patel 10/03/2025
Supervised By :mohammad ahmed 10/04/2025

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.046	1.996	2.106	BB	166411	1647462	76.40%	4.975%
2	4.581	4.551	4.636	BB	197279	1996236	92.57%	6.028%
3	6.760	6.729	6.822	BB	200807	2044206	94.79%	6.173%
4	8.594	8.561	8.684	BB	196339	2076117	96.27%	6.269%
5	10.204	10.171	10.277	BB	184964	2085229	96.70%	6.297%
6	11.650	11.606	11.709	BB	181842	2126193	98.60%	6.420%
7	12.963	12.921	13.021	BB	177405	2156452	100.00%	6.512%
8	14.166	14.129	14.217	BB	172688	2067030	95.85%	6.242%
9	15.067	15.027	15.131	BB	119256	1709257	79.26%	5.161%
10	15.272	15.231	15.321	BB	161826	2034563	94.35%	6.144%
11	16.295	16.196	16.346	BB	149477	1953018	90.57%	5.897%
12	17.249	17.201	17.306	BB	143944	1933936	89.68%	5.840%
13	18.139	18.072	18.177	BB	142547	1951103	90.48%	5.892%
14	18.976	18.941	19.039	BB	135997	1885196	87.42%	5.693%
15	19.762	19.721	19.802	BV	114947	1663364	77.13%	5.023%
16	20.503	20.461	20.539	BV	91488	1377743	63.89%	4.160%
17	21.264	21.201	21.359	BB	69058	1254537	58.18%	3.788%
18	22.210	22.141	22.273	BV	45242	1155042	53.56%	3.488%
Sum of corrected areas:						33116683		

FF090525.M Fri Oct 03 07:11:31 2025

Report of Analysis

Client:	Yannuzzi Group, Inc.		Date Collected:	09/25/25	
Project:	Edison Yard		Date Received:	09/25/25	
Client Sample ID:	WASTEMS		SDG No.:	Q3238	
Lab Sample ID:	Q3216-01MS		Matrix:	SOIL	
Analytical Method:	8015D TPH		% Solid:	89.3	Decanted:
Sample Wt/Vol:	30.08	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
FF016499.D	1	10/01/25 10:40	10/01/25 18:53	PB169938

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	58400		429	3160	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	12.3		37 - 130	62%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
 Data File : FF016499.D
 Signal(s) : FID2B.ch
 Acq On : 01 Oct 2025 18:53
 Operator : YP\AJ
 Sample : Q3216-01MS
 Misc :
 ALS Vial : 75 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 WASTEMS

Integration File: autoint1.e
 Quant Time: Oct 03 06:43:27 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
 Quant Title :
 QLast Update : Fri Sep 05 15:09:50 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...	15.071	1596436	12.329 ug/ml
Target Compounds			
1) N-OCTANE	2.048	1758936	13.378 ug/ml
2) N-DECANE	4.584	2070168	15.547 ug/ml
3) N-DODECANE	6.763	2171736	15.975 ug/ml
4) N-TETRADECANE	8.596	2333467	16.737 ug/ml
5) N-HEXADECANE	10.206	2343649	16.497 ug/ml
6) N-OCTADECANE	11.652	2293527	15.601 ug/ml
7) N-EICOSANE	12.966	2910096	19.508 ug/ml
8) N-DOCOSANE	14.167	2986104	20.537 ug/ml
10) N-TETRACOSANE	15.274	2209190	15.245 ug/ml
11) N-HEXACOSANE	16.300	2234766	15.640 ug/ml
12) N-OCTACOSANE	17.253	2364200	16.996 ug/ml
13) N-TRIACONTANE	18.145	2504418	18.123 ug/ml
14) N-DOTRIACONTANE	18.981	2178353	16.866 ug/ml
15) N-TETRATRIACONTANE	19.769	2402063	21.896 ug/ml
16) N-HEXATRIACONTANE	20.514	2455040	27.887 ug/ml
17) N-OCTATRIACONTANE	21.273	2463929	33.165 ug/ml
18) N-TETRACONTANE	22.229	2353241	36.008 ug/ml

(f)=RT Delta > 1/2 Window

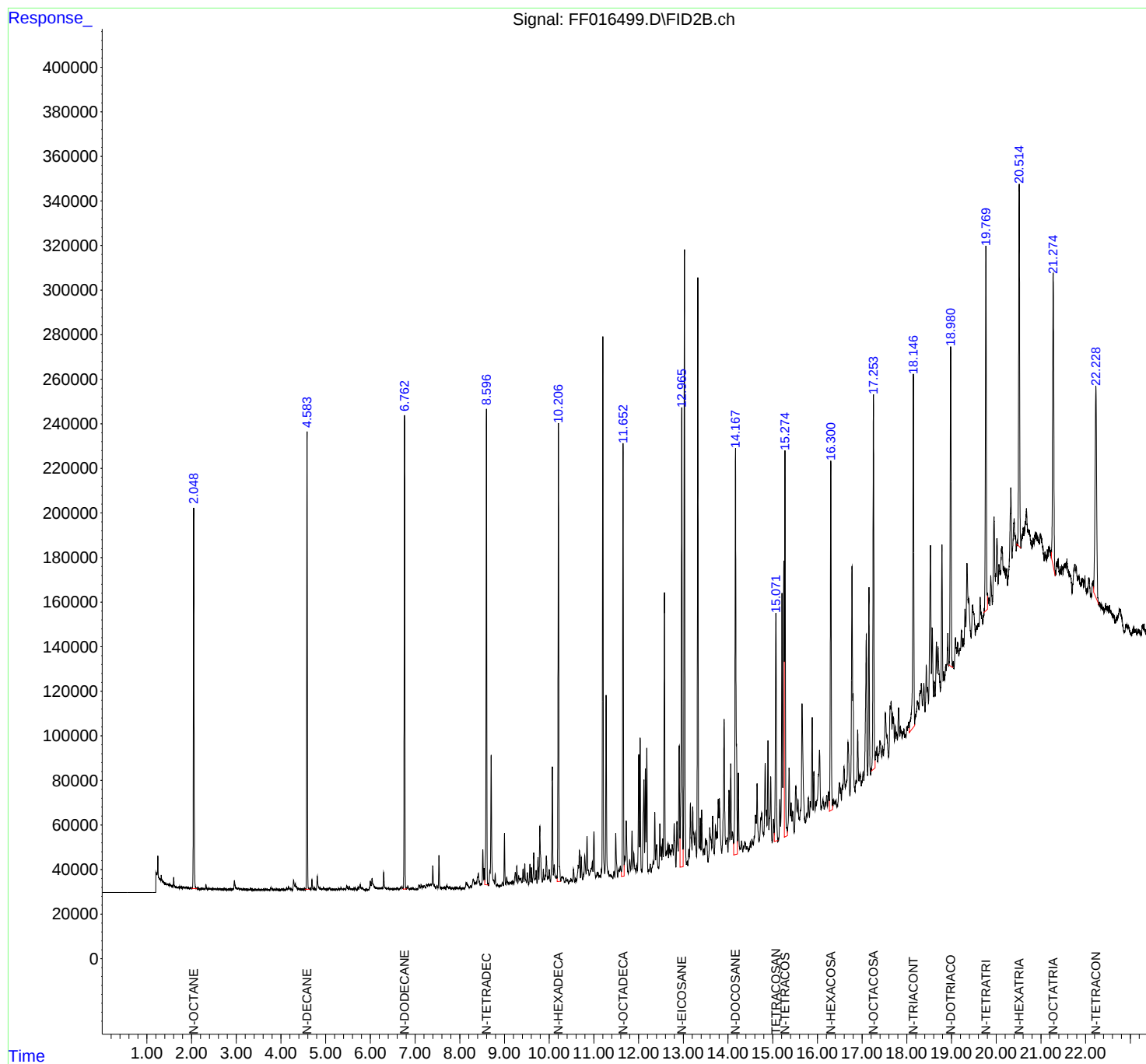
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016499.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 18:53
Operator : YP\AJ
Sample : Q3216-01MS
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WASTEMS

Integration File: autoint1.e
Quant Time: Oct 03 06:43:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 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\FF100125\
 Data File : FF016499.D
 Signal(s) : FID2B.ch
 Acq On : 01 Oct 2025 18:53
 Sample : Q3216-01MS
 Misc :
 ALS Vial : 75 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
 Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.922	1.900	1.953	BV	331	4076	0.08%	0.002%
2	1.986	1.953	2.013	VV	420	6101	0.12%	0.003%
3	2.048	2.013	2.115	PV	170873	1767504	35.93%	0.882%
4	2.121	2.115	2.169	VV	224	3604	0.07%	0.002%
5	2.173	2.169	2.188	VV	127	733	0.01%	0.000%
6	2.197	2.188	2.205	PV	102	663	0.01%	0.000%
7	2.232	2.205	2.250	VV	333	5135	0.10%	0.003%
8	2.253	2.250	2.299	VV	297	3788	0.08%	0.002%
9	2.321	2.299	2.360	VV	2102	23262	0.47%	0.012%
10	2.380	2.360	2.389	PV	292	2875	0.06%	0.001%
11	2.402	2.389	2.420	VV	348	5203	0.11%	0.003%
12	2.422	2.420	2.452	VV	268	3317	0.07%	0.002%
13	2.460	2.452	2.466	VV	225	1425	0.03%	0.001%
14	2.470	2.466	2.483	VV	187	1740	0.04%	0.001%
15	2.490	2.483	2.503	VV	198	2174	0.04%	0.001%
16	2.517	2.503	2.533	VV	285	3737	0.08%	0.002%
17	2.537	2.533	2.570	VV	243	3261	0.07%	0.002%
18	2.583	2.570	2.608	VV	162	1335	0.03%	0.001%
19	2.624	2.608	2.643	VV	395	4684	0.10%	0.002%
20	2.647	2.643	2.662	VV	265	2070	0.04%	0.001%
21	2.666	2.662	2.673	VV	128	611	0.01%	0.000%
22	2.677	2.673	2.710	VV	110	1172	0.02%	0.001%
23	2.730	2.710	2.770	VV	412	8219	0.17%	0.004%
24	2.773	2.770	2.783	VV	122	483	0.01%	0.000%
25	2.822	2.783	2.835	PV	227	3425	0.07%	0.002%
26	2.838	2.835	2.861	VV	106	1443	0.03%	0.001%

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27	2.877	2.861	2.909	VV	237	3656	0.07%	0.002%
28	2.925	2.909	2.936	VV	334	3853	0.08%	0.002%
29	2.958	2.936	3.002	VV	4210	71184	1.45%	0.036%
30	3.007	3.002	3.031	VV	841	11465	0.23%	0.006%
31	3.051	3.031	3.096	VV	618	16012	0.33%	0.008%
32	3.107	3.096	3.130	VV	320	4858	0.10%	0.002%
33	3.133	3.130	3.140	VV	206	1138	0.02%	0.001%
34	3.156	3.140	3.161	VV	266	2727	0.06%	0.001%
35	3.172	3.161	3.178	VV	377	3111	0.06%	0.002%
36	3.184	3.178	3.202	VV	403	3920	0.08%	0.002%
37	3.225	3.202	3.272	VV	397	8955	0.18%	0.004%
38	3.276	3.272	3.280	VV	146	540	0.01%	0.000%
39	3.319	3.280	3.357	VV	818	14485	0.29%	0.007%
40	3.360	3.357	3.371	VV	203	1238	0.03%	0.001%
41	3.373	3.371	3.380	VV	202	572	0.01%	0.000%
42	3.383	3.380	3.401	VV	133	970	0.02%	0.000%
43	3.408	3.401	3.421	VV	129	990	0.02%	0.000%
44	3.436	3.421	3.443	PV	173	1524	0.03%	0.001%
45	3.445	3.443	3.475	VV	160	1475	0.03%	0.001%
46	3.495	3.475	3.504	VV	132	1363	0.03%	0.001%
47	3.510	3.504	3.517	VV	133	805	0.02%	0.000%
48	3.535	3.517	3.552	VV	170	2348	0.05%	0.001%
49	3.556	3.552	3.577	VV	132	1447	0.03%	0.001%
50	3.581	3.577	3.594	PV	104	591	0.01%	0.000%
51	3.608	3.594	3.623	VV	308	2862	0.06%	0.001%
52	3.632	3.623	3.653	VV	195	2603	0.05%	0.001%
53	3.674	3.653	3.711	VV	258	5461	0.11%	0.003%
54	3.726	3.711	3.746	VV	133	1574	0.03%	0.001%
55	3.779	3.746	3.829	VV	876	21357	0.43%	0.011%
56	3.832	3.829	3.842	VV	222	1407	0.03%	0.001%
57	3.857	3.842	3.889	VV	243	4322	0.09%	0.002%
58	3.911	3.889	3.952	VV	392	7750	0.16%	0.004%
59	3.959	3.952	3.989	VV	179	1973	0.04%	0.001%
60	4.010	3.989	4.024	PV	327	4814	0.10%	0.002%
61	4.029	4.024	4.035	VV	312	1786	0.04%	0.001%
62	4.047	4.035	4.065	VV	301	3564	0.07%	0.002%
63	4.069	4.065	4.091	VV	144	1370	0.03%	0.001%
64	4.121	4.091	4.153	VV	810	15856	0.32%	0.008%
65	4.170	4.153	4.204	VV	1410	21166	0.43%	0.011%
66	4.219	4.204	4.253	VV	493	10039	0.20%	0.005%
67	4.282	4.253	4.310	VV	4452	75500	1.53%	0.038%
68	4.323	4.310	4.380	VV	2485	57072	1.16%	0.028%
69	4.392	4.380	4.444	VV	704	18282	0.37%	0.009%
70	4.447	4.444	4.473	VV	355	5814	0.12%	0.003%

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71	4.476	4.473	4.489	VV	316	2974	0.06%	0.001%
72	4.495	4.489	4.510	VV	339	3539	0.07%	0.002%
73	4.534	4.510	4.553	VV	459	8562	0.17%	0.004%
74	4.583	4.553	4.615	VV	205775	2081033	42.30%	1.038%
75	4.619	4.615	4.641	VV	966	10340	0.21%	0.005%
76	4.654	4.641	4.673	VV	569	8555	0.17%	0.004%
77	4.693	4.673	4.727	VV	4802	57118	1.16%	0.028%
78	4.743	4.727	4.789	VV	969	16503	0.34%	0.008%
79	4.812	4.789	4.884	VV	6189	111628	2.27%	0.056%
80	4.891	4.884	4.909	VV	687	8745	0.18%	0.004%
81	4.918	4.909	4.923	VV	420	3406	0.07%	0.002%
82	4.948	4.923	5.017	VV	891	31665	0.64%	0.016%
83	5.026	5.017	5.045	VV	425	5816	0.12%	0.003%
84	5.088	5.045	5.124	VV	1081	27592	0.56%	0.014%
85	5.128	5.124	5.141	VV	306	2926	0.06%	0.001%
86	5.144	5.141	5.179	VV	338	4792	0.10%	0.002%
87	5.212	5.179	5.218	VV	393	5599	0.11%	0.003%
88	5.238	5.218	5.258	VV	524	8546	0.17%	0.004%
89	5.272	5.258	5.277	VV	265	2095	0.04%	0.001%
90	5.290	5.277	5.315	VV	693	9583	0.19%	0.005%
91	5.344	5.315	5.365	VV	966	15900	0.32%	0.008%
92	5.375	5.365	5.392	VV	579	6841	0.14%	0.003%
93	5.403	5.392	5.419	VV	526	6743	0.14%	0.003%
94	5.429	5.419	5.450	VV	518	6557	0.13%	0.003%
95	5.469	5.450	5.510	VV	1819	34148	0.69%	0.017%
96	5.529	5.510	5.560	VV	1799	27351	0.56%	0.014%
97	5.564	5.560	5.578	VV	517	4449	0.09%	0.002%
98	5.591	5.578	5.615	VV	504	8334	0.17%	0.004%
99	5.633	5.615	5.644	VV	772	8494	0.17%	0.004%
100	5.659	5.644	5.688	VV	1055	15354	0.31%	0.008%
101	5.690	5.688	5.701	VV	262	1293	0.03%	0.001%
102	5.727	5.701	5.745	PV	1538	18721	0.38%	0.009%
103	5.772	5.745	5.806	VV	2350	46800	0.95%	0.023%
104	5.818	5.806	5.837	VV	1102	14163	0.29%	0.007%
105	5.840	5.837	5.870	VV	448	5322	0.11%	0.003%
106	5.874	5.870	5.895	VV	219	1064	0.02%	0.001%
107	5.918	5.895	5.939	PV	378	4075	0.08%	0.002%
108	5.955	5.939	5.962	VV	160	1195	0.02%	0.001%
109	5.998	5.962	6.013	VV	3950	55116	1.12%	0.027%
110	6.037	6.013	6.055	VV	5126	84379	1.72%	0.042%
111	6.060	6.055	6.127	VV	2694	65559	1.33%	0.033%
112	6.135	6.127	6.150	VV	1080	12500	0.25%	0.006%
113	6.154	6.150	6.159	VV	741	3482	0.07%	0.002%

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114	6.162	6.159	6.181	VV	715	8652	0.18%	0.004%
115	6.194	6.181	6.220	VV	735	15297	0.31%	0.008%
116	6.231	6.220	6.244	VV	850	9824	0.20%	0.005%
117	6.258	6.244	6.278	VV	984	15208	0.31%	0.008%
118	6.297	6.278	6.337	VV	7856	99421	2.02%	0.050%
119	6.341	6.337	6.361	VV	860	9943	0.20%	0.005%
120	6.403	6.361	6.429	VV	978	23026	0.47%	0.011%
121	6.442	6.429	6.459	VV	439	5640	0.11%	0.003%
122	6.482	6.459	6.511	VV	579	10729	0.22%	0.005%
123	6.529	6.511	6.535	VV	404	3809	0.08%	0.002%
124	6.537	6.535	6.540	VV	395	1214	0.02%	0.001%
125	6.549	6.540	6.570	VV	499	6567	0.13%	0.003%
126	6.600	6.570	6.634	VV	780	15362	0.31%	0.008%
127	6.648	6.634	6.653	VV	361	2720	0.06%	0.001%
128	6.670	6.653	6.685	VV	797	11774	0.24%	0.006%
129	6.705	6.685	6.734	VV	1430	25421	0.52%	0.013%
130	6.763	6.734	6.813	VV	212665	2185124	44.41%	1.090%
131	6.838	6.813	6.871	VV	1699	28139	0.57%	0.014%
132	6.875	6.871	6.891	VV	341	3290	0.07%	0.002%
133	6.914	6.891	6.931	VV	593	8862	0.18%	0.004%
134	6.955	6.931	6.986	VV	678	13091	0.27%	0.007%
135	6.990	6.986	6.998	VV	160	782	0.02%	0.000%
136	7.018	6.998	7.030	VV	260	3369	0.07%	0.002%
137	7.046	7.030	7.058	VV	264	2949	0.06%	0.001%
138	7.086	7.058	7.117	PV	2128	41488	0.84%	0.021%
139	7.134	7.117	7.156	VV	2267	34442	0.70%	0.017%
140	7.171	7.156	7.185	VV	1667	22051	0.45%	0.011%
141	7.201	7.185	7.233	VV	1736	36009	0.73%	0.018%
142	7.262	7.233	7.278	VV	2045	42883	0.87%	0.021%
143	7.299	7.278	7.325	VV	2488	56460	1.15%	0.028%
144	7.350	7.325	7.363	VV	2447	45280	0.92%	0.023%
145	7.396	7.363	7.418	VV	10413	148121	3.01%	0.074%
146	7.427	7.418	7.471	VV	1885	38158	0.78%	0.019%
147	7.491	7.471	7.515	VV	1720	27168	0.55%	0.014%
148	7.534	7.515	7.567	VV	15181	160575	3.26%	0.080%
149	7.580	7.567	7.597	VV	627	9351	0.19%	0.005%
150	7.607	7.597	7.620	VV	643	7627	0.16%	0.004%
151	7.632	7.620	7.646	VV	822	9897	0.20%	0.005%
152	7.659	7.646	7.680	VV	768	11450	0.23%	0.006%
153	7.683	7.680	7.688	VV	435	2058	0.04%	0.001%
154	7.714	7.688	7.751	VV	1772	34378	0.70%	0.017%
155	7.772	7.751	7.797	VV	725	15068	0.31%	0.008%
156	7.800	7.797	7.825	VV	396	4955	0.10%	0.002%

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157	7.836	7.825	7.867	VV	442	5953	0.12%	0.003%
158	7.885	7.867	7.893	VV	399	3614	0.07%	0.002%
159	7.897	7.893	7.911	VV	356	2885	0.06%	0.001%
160	7.927	7.911	7.956	VV	434	7862	0.16%	0.004%
161	7.961	7.956	7.970	VV	198	1138	0.02%	0.001%
162	8.000	7.970	8.040	VV	1029	14170	0.29%	0.007%
163	8.053	8.040	8.068	VV	175	1317	0.03%	0.001%
164	8.072	8.068	8.075	PV	59	248	0.01%	0.000%
165	8.087	8.075	8.091	VV	189	1143	0.02%	0.001%
166	8.105	8.091	8.113	VV	236	2449	0.05%	0.001%
167	8.142	8.113	8.163	VV	2814	48429	0.98%	0.024%
168	8.170	8.163	8.222	VV	1921	37245	0.76%	0.019%
169	8.240	8.222	8.259	VV	1216	17292	0.35%	0.009%
170	8.299	8.259	8.353	VV	4091	134152	2.73%	0.067%
171	8.368	8.353	8.380	VV	2772	37545	0.76%	0.019%
172	8.396	8.380	8.402	VV	5003	51806	1.05%	0.026%
173	8.415	8.402	8.455	VV	6536	119928	2.44%	0.060%
174	8.469	8.455	8.486	VV	1824	28837	0.59%	0.014%
175	8.516	8.486	8.532	VV	17070	208386	4.24%	0.104%
176	8.544	8.532	8.557	VV	8667	94207	1.91%	0.047%
177	8.596	8.557	8.649	VV	214545	2399603	48.77%	1.197%
178	8.672	8.649	8.679	VV	7119	83949	1.71%	0.042%
179	8.702	8.679	8.748	VV	59352	811255	16.49%	0.405%
180	8.754	8.748	8.775	VV	3309	44957	0.91%	0.022%
181	8.793	8.775	8.830	VV	5842	79307	1.61%	0.040%
182	8.843	8.830	8.876	VV	1023	17028	0.35%	0.008%
183	8.882	8.876	8.892	VV	366	2784	0.06%	0.001%
184	8.904	8.892	8.913	VV	470	4626	0.09%	0.002%
185	8.952	8.913	8.977	VV	1912	37248	0.76%	0.019%
186	9.000	8.977	9.031	VV	23947	252597	5.13%	0.126%
187	9.049	9.031	9.069	VV	4042	57294	1.16%	0.029%
188	9.073	9.069	9.098	VV	1817	24628	0.50%	0.012%
189	9.119	9.098	9.130	VV	1973	27479	0.56%	0.014%
190	9.140	9.130	9.153	VV	1706	20273	0.41%	0.010%
191	9.167	9.153	9.181	VV	2210	27401	0.56%	0.014%
192	9.196	9.181	9.212	VV	2002	29439	0.60%	0.015%
193	9.243	9.212	9.260	VV	6115	111139	2.26%	0.055%
194	9.276	9.260	9.299	VV	8987	111107	2.26%	0.055%
195	9.318	9.299	9.344	VV	4595	82918	1.69%	0.041%
196	9.350	9.344	9.360	VV	3149	27715	0.56%	0.014%
197	9.368	9.360	9.387	VV	3143	38979	0.79%	0.019%
198	9.415	9.387	9.436	VV	7382	108666	2.21%	0.054%
199	9.454	9.436	9.492	VV	9792	138436	2.81%	0.069%
200	9.513	9.492	9.542	VV	5686	83077	1.69%	0.041%

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201	9.570	9.542	9.588	VV	9459	127305	2.59%	0.064%
202	9.603	9.588	9.621	VV	7913	86288	1.75%	0.043%
203	9.654	9.621	9.677	VV	14521	204903	4.16%	0.102%
204	9.686	9.677	9.693	VV	2884	25056	0.51%	0.012%
205	9.708	9.693	9.728	VV	6625	79964	1.63%	0.040%
206	9.750	9.728	9.769	VV	12317	146097	2.97%	0.073%
207	9.791	9.769	9.850	VV	26329	470162	9.56%	0.235%
208	9.870	9.850	9.889	VV	6917	88378	1.80%	0.044%
209	9.936	9.889	9.961	VV	12914	253812	5.16%	0.127%
210	9.974	9.961	9.984	VV	3599	42660	0.87%	0.021%
211	10.002	9.984	10.025	VV	6594	97277	1.98%	0.049%
212	10.070	10.025	10.095	VV	52745	692023	14.07%	0.345%
213	10.113	10.095	10.156	VV	8637	182764	3.71%	0.091%
214	10.167	10.156	10.178	VV	3463	39234	0.80%	0.020%
215	10.206	10.178	10.259	VV	206621	2395687	48.69%	1.195%
216	10.279	10.259	10.284	VV	2892	32411	0.66%	0.016%
217	10.290	10.284	10.304	VV	3072	36425	0.74%	0.018%
218	10.311	10.304	10.345	VV	2840	43866	0.89%	0.022%
219	10.374	10.345	10.400	VV	2442	45245	0.92%	0.023%
220	10.414	10.400	10.431	VV	1779	20239	0.41%	0.010%
221	10.457	10.431	10.471	PV	1196	16244	0.33%	0.008%
222	10.486	10.471	10.520	VV	1965	35313	0.72%	0.018%
223	10.543	10.520	10.574	VV	6228	91467	1.86%	0.046%
224	10.591	10.574	10.614	VV	1681	24542	0.50%	0.012%
225	10.650	10.614	10.659	VV	7584	122326	2.49%	0.061%
226	10.676	10.659	10.699	VV	14261	204639	4.16%	0.102%
227	10.716	10.699	10.751	VV	11241	154640	3.14%	0.077%
228	10.769	10.751	10.775	VV	3425	32917	0.67%	0.016%
229	10.794	10.775	10.825	VV	11801	213453	4.34%	0.106%
230	10.846	10.825	10.893	VV	20225	339035	6.89%	0.169%
231	10.964	10.893	10.977	VV	8523	255969	5.20%	0.128%
232	11.001	10.977	11.042	VV	21961	352070	7.16%	0.176%
233	11.073	11.042	11.084	VV	3634	62468	1.27%	0.031%
234	11.096	11.084	11.112	VV	3419	43750	0.89%	0.022%
235	11.125	11.112	11.131	VV	2219	21608	0.44%	0.011%
236	11.137	11.131	11.152	VV	2111	22096	0.45%	0.011%
237	11.167	11.152	11.174	VV	4949	45980	0.93%	0.023%
238	11.200	11.174	11.242	VV	243748	2697179	54.82%	1.346%
239	11.273	11.242	11.317	VV	82464	1051914	21.38%	0.525%
240	11.326	11.317	11.342	VV	2951	35929	0.73%	0.018%
241	11.351	11.342	11.360	VV	1769	17539	0.36%	0.009%
242	11.373	11.360	11.395	VV	1621	27382	0.56%	0.014%
243	11.401	11.395	11.426	VV	1022	12001	0.24%	0.006%

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244	11.447	11.426	11.466	PV	3122	40704	0.83%	0.020%
245	11.488	11.466	11.531	VV	20057	294862	5.99%	0.147%
246	11.562	11.531	11.575	VV	3984	72437	1.47%	0.036%
247	11.593	11.575	11.615	VV	5063	86922	1.77%	0.043%
248	11.652	11.615	11.677	VV	194455	2305138	46.85%	1.150%
249	11.692	11.677	11.703	VV	8961	118840	2.42%	0.059%
250	11.724	11.703	11.768	VV	24933	436615	8.87%	0.218%
251	11.802	11.768	11.823	VV	7421	137340	2.79%	0.069%
252	11.853	11.823	11.874	VV	19944	287871	5.85%	0.144%
253	11.893	11.874	11.940	VV	9908	187788	3.82%	0.094%
254	11.955	11.940	11.972	VV	4364	56733	1.15%	0.028%
255	12.004	11.972	12.019	VV	53810	680697	13.84%	0.340%
256	12.035	12.019	12.078	VV	61146	700365	14.24%	0.349%
257	12.118	12.078	12.135	VV	42035	725605	14.75%	0.362%
258	12.152	12.135	12.167	VV	46848	540259	10.98%	0.270%
259	12.184	12.167	12.212	VV	56124	667776	13.57%	0.333%
260	12.227	12.212	12.238	VV	1338	14923	0.30%	0.007%
261	12.260	12.238	12.284	VV	3762	52236	1.06%	0.026%
262	12.324	12.284	12.336	PV	4742	84825	1.72%	0.042%
263	12.363	12.336	12.381	VV	26701	339341	6.90%	0.169%
264	12.405	12.381	12.451	VV	12143	253807	5.16%	0.127%
265	12.476	12.451	12.494	VV	21176	276460	5.62%	0.138%
266	12.507	12.494	12.521	VV	10761	131846	2.68%	0.066%
267	12.539	12.521	12.554	VV	14292	189946	3.86%	0.095%
268	12.579	12.554	12.608	VV	124563	1569436	31.90%	0.783%
269	12.623	12.608	12.635	VV	8331	122536	2.49%	0.061%
270	12.653	12.635	12.669	VV	11476	178980	3.64%	0.089%
271	12.684	12.669	12.695	VV	10858	132442	2.69%	0.066%
272	12.707	12.695	12.718	VV	9040	106107	2.16%	0.053%
273	12.733	12.718	12.739	VV	8180	94939	1.93%	0.047%
274	12.752	12.739	12.779	VV	10854	210691	4.28%	0.105%
275	12.796	12.779	12.835	VV	20015	362547	7.37%	0.181%
276	12.858	12.835	12.885	VV	20745	327962	6.67%	0.164%
277	12.908	12.885	12.927	VV	54487	741082	15.06%	0.370%
278	12.966	12.927	12.996	VV	205993	2910413	59.16%	1.452%
279	13.026	12.996	13.070	VV	276678	3337160	67.83%	1.665%
280	13.083	13.070	13.099	VV	1666	17586	0.36%	0.009%
281	13.123	13.099	13.137	VV	7087	93621	1.90%	0.047%
282	13.159	13.137	13.194	VV	27709	493990	10.04%	0.246%
283	13.211	13.194	13.227	VV	26090	347037	7.05%	0.173%
284	13.232	13.227	13.249	VV	14503	162237	3.30%	0.081%
285	13.265	13.249	13.297	VV	14435	275400	5.60%	0.137%
286	13.325	13.297	13.355	VV	263065	2942720	59.81%	1.468%

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287	13.357	13.355	13.361	VV	7718	30032	0.61%	0.015%
288	13.379	13.361	13.395	VV	20475	265556	5.40%	0.132%
289	13.411	13.395	13.444	VV	24013	353885	7.19%	0.177%
290	13.457	13.444	13.477	VV	6292	101475	2.06%	0.051%
291	13.497	13.477	13.509	VV	10776	151198	3.07%	0.075%
292	13.522	13.509	13.552	VV	9775	162585	3.30%	0.081%
293	13.593	13.552	13.635	PV	15372	387080	7.87%	0.193%
294	13.657	13.635	13.692	VV	20159	353980	7.19%	0.177%
295	13.719	13.692	13.734	VV	15389	243697	4.95%	0.122%
296	13.747	13.734	13.762	VV	12437	180542	3.67%	0.090%
297	13.781	13.762	13.795	VV	27007	402577	8.18%	0.201%
298	13.807	13.795	13.860	VV	27135	511536	10.40%	0.255%
299	13.912	13.860	13.948	VV	62044	1180462	23.99%	0.589%
300	13.963	13.948	13.971	VV	7552	94918	1.93%	0.047%
301	13.982	13.971	13.998	VV	8626	102132	2.08%	0.051%
302	14.022	13.998	14.042	VV	29564	423971	8.62%	0.212%
303	14.061	14.042	14.085	VV	41315	545985	11.10%	0.272%
304	14.102	14.085	14.128	VV	10298	206863	4.20%	0.103%
305	14.167	14.128	14.211	VV	182138	2979419	60.56%	1.486%
306	14.230	14.211	14.277	VV	36232	474841	9.65%	0.237%
307	14.303	14.277	14.331	VV	5129	85773	1.74%	0.043%
308	14.350	14.331	14.357	VV	2867	27126	0.55%	0.014%
309	14.379	14.357	14.406	VV	4244	85497	1.74%	0.043%
310	14.420	14.406	14.453	VV	2017	34037	0.69%	0.017%
311	14.502	14.453	14.516	PV	3671	51404	1.04%	0.026%
312	14.535	14.516	14.550	VV	4621	64357	1.31%	0.032%
313	14.558	14.550	14.570	VV	3023	30070	0.61%	0.015%
314	14.586	14.570	14.592	VV	5619	56791	1.15%	0.028%
315	14.614	14.592	14.632	VV	14850	266834	5.42%	0.133%
316	14.650	14.632	14.692	VV	28715	475161	9.66%	0.237%
317	14.733	14.692	14.738	VV	12934	193939	3.94%	0.097%
318	14.754	14.738	14.784	VV	15027	299329	6.08%	0.149%
319	14.794	14.784	14.803	VV	5571	60128	1.22%	0.030%
320	14.831	14.803	14.849	VV	36653	571874	11.62%	0.285%
321	14.857	14.849	14.872	VV	15560	174692	3.55%	0.087%
322	14.894	14.872	14.914	VV	46324	627527	12.75%	0.313%
323	14.955	14.914	14.990	VV	29779	548180	11.14%	0.273%
324	15.017	14.990	15.034	VV	10308	147516	3.00%	0.074%
325	15.071	15.034	15.119	VV	102149	1600863	32.54%	0.799%
326	15.160	15.119	15.176	PV	17992	223752	4.55%	0.112%
327	15.207	15.176	15.225	VV	110215	1401199	28.48%	0.699%
328	15.249	15.225	15.260	VV	123683	1607793	32.68%	0.802%
329	15.274	15.260	15.330	VV	172957	2210111	44.92%	1.103%
330	15.366	15.330	15.397	VV	30084	538658	10.95%	0.269%

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331	15.412	15.397	15.430	VV	13831	200381	4.07%	0.100%
332	15.447	15.430	15.483	VV	9534	167284	3.40%	0.083%
333	15.515	15.483	15.549	PV	20306	449962	9.15%	0.224%
334	15.566	15.549	15.602	VV	13593	263498	5.36%	0.131%
335	15.656	15.602	15.734	VV	55457	1389981	28.25%	0.693%
336	15.760	15.734	15.775	VV	4826	85208	1.73%	0.043%
337	15.796	15.775	15.822	VV	11746	195618	3.98%	0.098%
338	15.838	15.822	15.854	VV	9587	134045	2.72%	0.067%
339	15.884	15.854	15.903	VV	46562	688034	13.98%	0.343%
340	15.921	15.903	15.948	VV	21991	328021	6.67%	0.164%
341	15.965	15.948	15.979	VV	8120	119806	2.44%	0.060%
342	15.993	15.979	15.997	VV	8277	82539	1.68%	0.041%
343	16.047	15.997	16.084	VV	30091	838815	17.05%	0.418%
344	16.123	16.084	16.152	VV	7351	195781	3.98%	0.098%
345	16.172	16.152	16.189	VV	5384	94721	1.93%	0.047%
346	16.209	16.189	16.227	VV	7725	124749	2.54%	0.062%
347	16.250	16.227	16.270	VV	9030	160498	3.26%	0.080%
348	16.300	16.270	16.340	VV	156886	2235522	45.44%	1.115%
349	16.355	16.340	16.373	VV	4353	61946	1.26%	0.031%
350	16.393	16.373	16.400	VV	2668	38475	0.78%	0.019%
351	16.415	16.400	16.432	VV	3059	39609	0.81%	0.020%
352	16.438	16.432	16.445	VV	498	2261	0.05%	0.001%
353	16.491	16.445	16.512	PV	10146	217268	4.42%	0.108%
354	16.521	16.512	16.538	VV	7074	79918	1.62%	0.040%
355	16.561	16.538	16.569	VV	7970	106371	2.16%	0.053%
356	16.593	16.569	16.621	VV	15920	332901	6.77%	0.166%
357	16.684	16.621	16.728	VV	25472	756344	15.37%	0.377%
358	16.774	16.728	16.792	VV	103027	1630516	33.14%	0.813%
359	16.797	16.792	16.841	VV	45502	508873	10.34%	0.254%
360	16.866	16.841	16.877	VV	5114	85409	1.74%	0.043%
361	16.901	16.877	16.926	VV	27790	416665	8.47%	0.208%
362	16.938	16.926	16.950	VV	6570	80013	1.63%	0.040%
363	16.954	16.950	16.985	VV	7271	93544	1.90%	0.047%
364	16.994	16.985	17.000	VV	3607	25585	0.52%	0.013%
365	17.022	17.000	17.039	VV	7003	111272	2.26%	0.056%
366	17.094	17.039	17.125	VV	67766	1337126	27.18%	0.667%
367	17.153	17.125	17.190	VV	87448	1203409	24.46%	0.600%
368	17.253	17.190	17.289	VV	172709	2645774	53.78%	1.320%
369	17.306	17.289	17.318	VV	11524	179613	3.65%	0.090%
370	17.333	17.318	17.352	VV	13447	208946	4.25%	0.104%
371	17.366	17.352	17.371	VV	9934	103943	2.11%	0.052%
372	17.397	17.371	17.444	VV	15396	502947	10.22%	0.251%
373	17.459	17.444	17.480	VV	12085	206376	4.19%	0.103%

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374	17.520	17.480	17.549	VV	26049	724913	14.73%	0.362%
375	17.555	17.549	17.591	VV	15520	278121	5.65%	0.139%
376	17.627	17.591	17.638	VV	27547	487850	9.92%	0.243%
377	17.648	17.638	17.667	VV	29732	436203	8.87%	0.218%
378	17.682	17.667	17.695	VV	23547	336778	6.85%	0.168%
379	17.703	17.695	17.722	VV	21572	292236	5.94%	0.146%
380	17.741	17.722	17.757	VV	16866	284641	5.79%	0.142%
381	17.770	17.757	17.789	VV	13997	236077	4.80%	0.118%
382	17.813	17.789	17.844	VV	24204	534647	10.87%	0.267%
383	17.857	17.844	17.868	VV	15354	196116	3.99%	0.098%
384	17.872	17.868	17.877	VV	13246	68275	1.39%	0.034%
385	17.882	17.877	17.898	VV	12645	138181	2.81%	0.069%
386	17.916	17.898	17.925	VV	11891	179353	3.65%	0.089%
387	17.934	17.925	17.950	VV	12671	176191	3.58%	0.088%
388	17.964	17.950	17.979	VV	9727	157658	3.20%	0.079%
389	18.001	17.979	18.015	VV	12836	237888	4.84%	0.119%
390	18.038	18.015	18.054	VV	14386	309031	6.28%	0.154%
391	18.063	18.054	18.068	VV	14119	106044	2.16%	0.053%
392	18.080	18.068	18.084	VV	14752	143980	2.93%	0.072%
393	18.145	18.084	18.175	VV	168856	2983220	60.63%	1.488%
394	18.200	18.175	18.207	VV	15711	270743	5.50%	0.135%
395	18.235	18.207	18.244	VV	20970	403714	8.21%	0.201%
396	18.250	18.244	18.272	VV	20072	310363	6.31%	0.155%
397	18.296	18.272	18.306	VV	24830	430723	8.75%	0.215%
398	18.323	18.306	18.354	VV	27546	647579	13.16%	0.323%
399	18.380	18.354	18.409	VV	26632	684676	13.92%	0.342%
400	18.435	18.409	18.452	VV	33860	640171	13.01%	0.319%
401	18.464	18.452	18.485	VV	23507	405470	8.24%	0.202%
402	18.528	18.485	18.550	VV	86276	1956077	39.76%	0.976%
403	18.569	18.550	18.595	VV	48654	941651	19.14%	0.470%
404	18.611	18.595	18.633	VV	24244	479832	9.75%	0.239%
405	18.662	18.633	18.679	VV	41167	819106	16.65%	0.409%
406	18.697	18.679	18.749	VV	38205	1185570	24.10%	0.591%
407	18.786	18.749	18.815	VV	82891	1605210	32.63%	0.801%
408	18.824	18.815	18.842	VV	25427	381692	7.76%	0.190%
409	18.875	18.842	18.883	VV	27681	610827	12.42%	0.305%
410	18.917	18.883	18.939	VV	40992	1059555	21.54%	0.529%
411	18.981	18.939	19.022	VV	168966	3453880	70.20%	1.723%
412	19.039	19.022	19.057	VV	26821	526903	10.71%	0.263%
413	19.089	19.057	19.114	VV	36753	1066654	21.68%	0.532%
414	19.134	19.114	19.162	VV	34042	888243	18.05%	0.443%
415	19.186	19.162	19.200	VV	30564	657834	13.37%	0.328%
416	19.223	19.200	19.237	VV	37901	768172	15.61%	0.383%

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417	19.242	19.237	19.246	VV	31827	168682	3.43%	0.084%
418	19.260	19.246	19.271	VV	33661	483240	9.82%	0.241%
419	19.301	19.271	19.320	VV	46272	1136902	23.11%	0.567%
420	19.346	19.320	19.374	VV	65826	1737995	35.33%	0.867%
421	19.382	19.374	19.427	VV	49680	1355557	27.55%	0.676%
422	19.435	19.427	19.440	VV	32957	252438	5.13%	0.126%
423	19.474	19.440	19.532	VV	45658	2166185	44.03%	1.081%
424	19.555	19.532	19.563	VV	35254	617075	12.54%	0.308%
425	19.568	19.563	19.582	VV	34203	383313	7.79%	0.191%
426	19.597	19.582	19.617	VV	35449	744661	15.14%	0.371%
427	19.641	19.617	19.705	VV	46668	2030389	41.27%	1.013%
428	19.721	19.705	19.726	VV	38590	458247	9.31%	0.229%
429	19.769	19.726	19.804	VV	201953	4211626	85.60%	2.101%
430	19.809	19.804	19.824	VV	45871	527568	10.72%	0.263%
431	19.835	19.824	19.856	VV	43325	823869	16.75%	0.411%
432	19.878	19.856	19.913	VV	52803	1531902	31.14%	0.764%
433	19.951	19.913	19.981	VV	78151	2404421	48.87%	1.199%
434	20.016	19.981	20.042	VV	67049	2091714	42.51%	1.043%
435	20.062	20.042	20.085	VV	54753	1328623	27.00%	0.663%
436	20.091	20.085	20.095	VV	51630	311553	6.33%	0.155%
437	20.127	20.095	20.161	VV	61948	2246272	45.66%	1.121%
438	20.173	20.161	20.192	VV	52583	965236	19.62%	0.482%
439	20.198	20.192	20.213	VV	51410	599626	12.19%	0.299%
440	20.236	20.213	20.254	VV	50561	1176559	23.91%	0.587%
441	20.327	20.254	20.356	VV	85455	3680853	74.81%	1.836%
442	20.400	20.356	20.433	VV	70333	2917432	59.30%	1.455%
443	20.435	20.433	20.447	VV	61836	511328	10.39%	0.255%
444	20.466	20.447	20.479	VV	59474	1087582	22.11%	0.543%
445	20.514	20.479	20.552	VV	218970	4919966	100.00%	2.454%
446	20.570	20.552	20.574	VV	60468	780318	15.86%	0.389%
447	20.607	20.574	20.617	VV	63342	1564439	31.80%	0.780%
448	20.626	20.617	20.631	VV	62554	519632	10.56%	0.259%
449	20.646	20.631	20.656	VV	65558	950479	19.32%	0.474%
450	20.676	20.656	20.737	VV	71073	3124229	63.50%	1.559%
451	20.744	20.737	20.779	VV	60274	1432272	29.11%	0.715%
452	20.785	20.779	20.799	VV	55184	638001	12.97%	0.318%
453	20.806	20.799	20.810	VV	52990	346588	7.04%	0.173%
454	20.826	20.810	20.834	VV	55624	774397	15.74%	0.386%
455	20.838	20.834	20.848	VV	54891	461789	9.39%	0.230%
456	20.874	20.848	20.887	VV	57680	1295933	26.34%	0.646%
457	20.902	20.887	20.914	VV	56480	885639	18.00%	0.442%
458	20.922	20.914	20.942	VV	54446	913811	18.57%	0.456%
459	20.945	20.942	20.965	VV	53103	714304	14.52%	0.356%
460	20.986	20.965	21.010	VV	55166	1449063	29.45%	0.723%

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461	21.016	21.010	21.071	VV	52676	1742559	35.42%	0.869%
462	21.076	21.071	21.080	VV	43559	209678	4.26%	0.105%
463	21.090	21.080	21.123	VV	45287	1140555	23.18%	0.569%
464	21.130	21.123	21.137	VV	42962	354941	7.21%	0.177%
465	21.143	21.137	21.151	VV	45733	353434	7.18%	0.176%
466	21.173	21.151	21.181	VV	46622	810592	16.48%	0.404%
467	21.190	21.181	21.213	VV	46036	855174	17.38%	0.427%
468	21.225	21.213	21.234	VV	44403	543780	11.05%	0.271%
469	21.274	21.234	21.319	VV	167721	4302745	87.45%	2.146%
470	21.345	21.319	21.355	VV	36737	729908	14.84%	0.364%
471	21.362	21.355	21.370	VV	36996	318962	6.48%	0.159%
472	21.383	21.370	21.413	VV	37797	888763	18.06%	0.443%
473	21.429	21.413	21.439	VV	33732	503086	10.23%	0.251%
474	21.448	21.439	21.455	VV	32335	312846	6.36%	0.156%
475	21.466	21.455	21.493	VV	33518	717261	14.58%	0.358%
476	21.539	21.493	21.561	VV	33710	1339427	27.22%	0.668%
477	21.581	21.561	21.614	VV	35151	1006813	20.46%	0.502%
478	21.618	21.614	21.623	VV	29601	153777	3.13%	0.077%
479	21.629	21.623	21.642	VV	28780	319089	6.49%	0.159%
480	21.649	21.642	21.657	VV	26969	232318	4.72%	0.116%
481	21.664	21.657	21.693	VV	26602	509775	10.36%	0.254%
482	21.761	21.693	21.779	VV	30183	1304114	26.51%	0.651%
483	21.791	21.779	21.826	VV	28646	705574	14.34%	0.352%
484	21.836	21.826	21.849	VV	23481	323791	6.58%	0.162%
485	21.856	21.849	21.890	VV	22850	499416	10.15%	0.249%
486	21.901	21.890	21.914	VV	21360	283517	5.76%	0.141%
487	21.928	21.914	21.936	VV	21305	265341	5.39%	0.132%
488	21.944	21.936	21.959	VV	20389	266502	5.42%	0.133%
489	21.984	21.959	22.025	VV	21570	680883	13.84%	0.340%
490	22.038	22.025	22.051	VV	14907	218491	4.44%	0.109%
491	22.066	22.051	22.071	VV	19232	202549	4.12%	0.101%
492	22.075	22.071	22.111	VV	19199	349364	7.10%	0.174%
493	22.117	22.111	22.131	VV	11302	126085	2.56%	0.063%
494	22.149	22.131	22.156	VV	15641	209206	4.25%	0.104%
495	22.168	22.156	22.179	VV	16441	207331	4.21%	0.103%
496	22.229	22.179	22.287	VV	103048	2863542	58.20%	1.429%
497	22.290	22.287	22.295	VV	4736	21387	0.43%	0.011%
498	22.301	22.295	22.329	VV	5049	83309	1.69%	0.042%
499	22.335	22.329	22.351	VV	3065	31040	0.63%	0.015%
500	22.357	22.351	22.392	VV	3196	37556	0.76%	0.019%

Sum of corrected areas: 200456465

FF090525.M Fri Oct 03 07:17:32 2025 rteres

Report of Analysis

Client:	Yannuzzi Group, Inc.	Date Collected:	09/25/25
Project:	Edison Yard	Date Received:	09/25/25
Client Sample ID:	WASTEMSD	SDG No.:	Q3238
Lab Sample ID:	Q3216-01MSD	Matrix:	SOIL
Analytical Method:	8015D TPH	% Solid:	89.3
Sample Wt/Vol:	30.03	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
FF016500.D	1	10/01/25 10:40	10/01/25 19:23	PB169938

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
PHC	Petroleum Hydrocarbons	58300		430	3170	ug/kg
SURROGATES						
16416-32-3	TETRACOSANE-d50	11.8		37 - 130	59%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
 Data File : FF016500.D
 Signal(s) : FID2B.ch
 Acq On : 01 Oct 2025 19:23
 Operator : YP\AJ
 Sample : Q3216-01MSD
 Misc :
 ALS Vial : 76 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 WASTEMSD

Integration File: autoint1.e
 Quant Time: Oct 03 06:43:43 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
 Quant Title :
 QLast Update : Fri Sep 05 15:09:50 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...	15.071	1531349	11.826 ug/ml
Target Compounds			
1) N-OCTANE	2.048	1653161	12.573 ug/ml
2) N-DECANE	4.584	1947804	14.628 ug/ml
3) N-DODECANE	6.763	2039816	15.005 ug/ml
4) N-TETRADECANE	8.597	2239690	16.064 ug/ml
5) N-HEXADECANE	10.206	2214675	15.590 ug/ml
6) N-OCTADECANE	11.652	2174199	14.789 ug/ml
7) N-EICOSANE	12.967	2762535	18.518 ug/ml
8) N-DOCOSANE	14.169	2853697	19.626 ug/ml
10) N-TETRACOSANE	15.275	2063402	14.239 ug/ml
11) N-HEXACOSANE	16.300	2140436	14.980 ug/ml
12) N-OCTACOSANE	17.255	2262187	16.262 ug/ml
13) N-TRIACONTANE	18.146	2312627	16.735 ug/ml
14) N-DOTRIACONTANE	18.982	2131416	16.502 ug/ml
15) N-TETRATRIACONTANE	19.771	2380776	21.702 ug/ml
16) N-HEXATRIACONTANE	20.513	2290525	26.018 ug/ml
17) N-OCTATRIACONTANE	21.274	2361540	31.787 ug/ml
18) N-TETRACONTANE	22.226	2221830	33.997 ug/ml

(f)=RT Delta > 1/2 Window

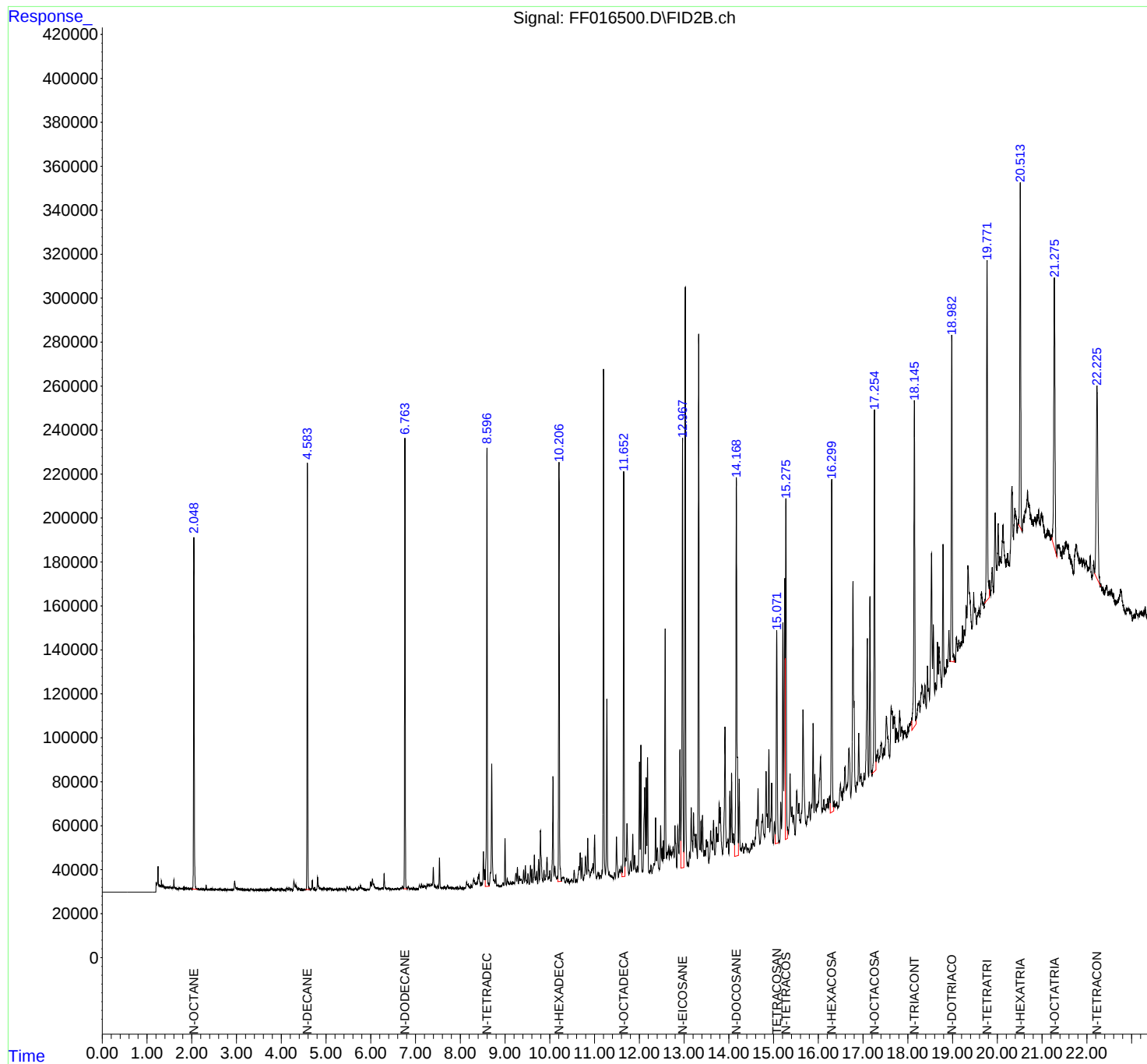
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
Data File : FF016500.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 19:23
Operator : YP\AJ
Sample : Q3216-01MSD
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
WASTEMSD

Integration File: autoint1.e
Quant Time: Oct 03 06:43:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
Quant Title :
QLast Update : Fri Sep 05 15:09:50 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF100125\
 Data File : FF016500.D
 Signal(s) : FID2B.ch
 Acq On : 01 Oct 2025 19:23
 Sample : Q3216-01MSD
 Misc :
 ALS Vial : 76 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\FF090525.M
 Title :

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	1.925	1.900	1.955	BV	416	3675	0.07%	0.002%
2	1.985	1.955	2.011	PV	444	6904	0.13%	0.003%
3	2.048	2.011	2.113	PV	160166	1663621	31.82%	0.833%
4	2.118	2.113	2.131	VV	237	1941	0.04%	0.001%
5	2.144	2.131	2.159	VV	208	2016	0.04%	0.001%
6	2.162	2.159	2.168	VV	131	457	0.01%	0.000%
7	2.174	2.168	2.182	VV	132	618	0.01%	0.000%
8	2.186	2.182	2.198	VV	113	587	0.01%	0.000%
9	2.207	2.198	2.222	VV	168	909	0.02%	0.000%
10	2.237	2.222	2.249	VV	281	3338	0.06%	0.002%
11	2.255	2.249	2.283	VV	284	3166	0.06%	0.002%
12	2.289	2.283	2.294	PV	77	376	0.01%	0.000%
13	2.322	2.294	2.363	VV	1996	23088	0.44%	0.012%
14	2.406	2.363	2.445	VV	372	11562	0.22%	0.006%
15	2.459	2.445	2.463	VV	413	2199	0.04%	0.001%
16	2.468	2.463	2.473	VV	283	1322	0.03%	0.001%
17	2.478	2.473	2.498	VV	281	3580	0.07%	0.002%
18	2.517	2.498	2.523	VV	296	3599	0.07%	0.002%
19	2.527	2.523	2.536	VV	267	1898	0.04%	0.001%
20	2.540	2.536	2.573	VV	256	4133	0.08%	0.002%
21	2.579	2.573	2.595	VV	250	1975	0.04%	0.001%
22	2.603	2.595	2.608	VV	157	993	0.02%	0.000%
23	2.626	2.608	2.638	VV	400	5018	0.10%	0.003%
24	2.646	2.638	2.695	VV	291	5588	0.11%	0.003%
25	2.735	2.695	2.780	PV	474	11337	0.22%	0.006%
26	2.797	2.780	2.845	VV	262	5847	0.11%	0.003%

				rteres				
27	2.887	2.845	2.907	VV	248	5863	0.11%	0.003%
28	2.927	2.907	2.934	VV	414	4154	0.08%	0.002%
29	2.958	2.934	3.005	VV	4019	72008	1.38%	0.036%
30	3.010	3.005	3.033	VV	837	10525	0.20%	0.005%
31	3.052	3.033	3.071	VV	653	11035	0.21%	0.006%
32	3.077	3.071	3.085	VV	357	2693	0.05%	0.001%
33	3.089	3.085	3.098	VV	330	2474	0.05%	0.001%
34	3.102	3.098	3.119	VV	378	3335	0.06%	0.002%
35	3.126	3.119	3.147	VV	275	3710	0.07%	0.002%
36	3.161	3.147	3.166	VV	376	2984	0.06%	0.001%
37	3.170	3.166	3.177	VV	320	1979	0.04%	0.001%
38	3.183	3.177	3.209	VV	411	5702	0.11%	0.003%
39	3.221	3.209	3.266	VV	436	8298	0.16%	0.004%
40	3.269	3.266	3.276	VV	144	522	0.01%	0.000%
41	3.282	3.276	3.298	VV	121	1287	0.02%	0.001%
42	3.319	3.298	3.368	VV	801	13809	0.26%	0.007%
43	3.372	3.368	3.377	VV	214	711	0.01%	0.000%
44	3.381	3.377	3.413	VV	157	1736	0.03%	0.001%
45	3.437	3.413	3.449	VV	237	2486	0.05%	0.001%
46	3.453	3.449	3.468	VV	148	972	0.02%	0.000%
47	3.472	3.468	3.489	VV	66	730	0.01%	0.000%
48	3.513	3.489	3.521	VV	131	1548	0.03%	0.001%
49	3.537	3.521	3.566	VV	179	2988	0.06%	0.001%
50	3.570	3.566	3.577	PV	123	386	0.01%	0.000%
51	3.580	3.577	3.587	VV	82	321	0.01%	0.000%
52	3.611	3.587	3.627	VV	325	3970	0.08%	0.002%
53	3.649	3.627	3.653	VV	239	2697	0.05%	0.001%
54	3.669	3.653	3.691	VV	315	5109	0.10%	0.003%
55	3.706	3.691	3.717	VV	214	1894	0.04%	0.001%
56	3.722	3.717	3.744	VV	118	1315	0.03%	0.001%
57	3.776	3.744	3.832	VV	875	22580	0.43%	0.011%
58	3.845	3.832	3.858	VV	226	2896	0.06%	0.001%
59	3.859	3.858	3.875	VV	214	1488	0.03%	0.001%
60	3.907	3.875	3.922	VV	396	6151	0.12%	0.003%
61	3.930	3.922	3.949	VV	316	3297	0.06%	0.002%
62	3.959	3.949	3.969	VV	250	1772	0.03%	0.001%
63	3.979	3.969	3.983	VV	179	1063	0.02%	0.001%
64	4.009	3.983	4.039	VV	596	10289	0.20%	0.005%
65	4.043	4.039	4.076	VV	267	2971	0.06%	0.001%
66	4.088	4.076	4.093	PV	115	554	0.01%	0.000%
67	4.123	4.093	4.156	VV	786	15310	0.29%	0.008%
68	4.172	4.156	4.203	VV	1315	19295	0.37%	0.010%
69	4.225	4.203	4.256	VV	516	9327	0.18%	0.005%
70	4.282	4.256	4.312	VV	4192	72095	1.38%	0.036%

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71	4.324	4.312	4.379	VV	2518	51591	0.99%	0.026%
72	4.390	4.379	4.440	VV	701	16416	0.31%	0.008%
73	4.447	4.440	4.464	VV	370	3930	0.08%	0.002%
74	4.467	4.464	4.471	VV	285	1038	0.02%	0.001%
75	4.473	4.471	4.485	VV	297	1864	0.04%	0.001%
76	4.493	4.485	4.508	VV	221	3004	0.06%	0.002%
77	4.513	4.508	4.516	VV	268	1192	0.02%	0.001%
78	4.539	4.516	4.553	VV	352	6348	0.12%	0.003%
79	4.584	4.553	4.613	VV	194107	1954704	37.38%	0.979%
80	4.620	4.613	4.641	VV	920	9745	0.19%	0.005%
81	4.661	4.641	4.674	VV	494	8071	0.15%	0.004%
82	4.693	4.674	4.724	VV	4488	51691	0.99%	0.026%
83	4.744	4.724	4.791	VV	865	16120	0.31%	0.008%
84	4.813	4.791	4.861	VV	5916	94003	1.80%	0.047%
85	4.869	4.861	4.884	VV	845	10172	0.19%	0.005%
86	4.891	4.884	4.924	VV	666	11218	0.21%	0.006%
87	4.947	4.924	4.965	VV	908	15414	0.29%	0.008%
88	4.972	4.965	5.017	VV	660	15802	0.30%	0.008%
89	5.024	5.017	5.033	VV	454	3705	0.07%	0.002%
90	5.043	5.033	5.051	VV	430	4072	0.08%	0.002%
91	5.090	5.051	5.117	VV	1046	25903	0.50%	0.013%
92	5.120	5.117	5.124	VV	369	1547	0.03%	0.001%
93	5.129	5.124	5.188	VV	385	9373	0.18%	0.005%
94	5.209	5.188	5.215	VV	369	4334	0.08%	0.002%
95	5.219	5.215	5.225	VV	337	1931	0.04%	0.001%
96	5.241	5.225	5.261	VV	460	6326	0.12%	0.003%
97	5.267	5.261	5.277	VV	196	1371	0.03%	0.001%
98	5.292	5.277	5.318	VV	512	8551	0.16%	0.004%
99	5.344	5.318	5.363	VV	836	12980	0.25%	0.006%
100	5.374	5.363	5.393	VV	426	5689	0.11%	0.003%
101	5.404	5.393	5.419	VV	496	5618	0.11%	0.003%
102	5.427	5.419	5.452	VV	457	5394	0.10%	0.003%
103	5.470	5.452	5.512	VV	1693	30443	0.58%	0.015%
104	5.529	5.512	5.577	VV	1610	26444	0.51%	0.013%
105	5.595	5.577	5.599	VV	384	4392	0.08%	0.002%
106	5.602	5.599	5.619	VV	341	2462	0.05%	0.001%
107	5.632	5.619	5.646	VV	614	6490	0.12%	0.003%
108	5.660	5.646	5.705	VV	996	14842	0.28%	0.007%
109	5.728	5.705	5.742	PV	1287	15162	0.29%	0.008%
110	5.773	5.742	5.808	VV	2215	43921	0.84%	0.022%
111	5.819	5.808	5.874	VV	999	16474	0.32%	0.008%
112	5.879	5.874	5.898	VV	128	832	0.02%	0.000%
113	5.915	5.898	5.942	VV	367	4136	0.08%	0.002%

				rteres				
114	5.998	5.942	6.016	PV	3798	55164	1.05%	0.028%
115	6.038	6.016	6.056	VV	4970	79218	1.52%	0.040%
116	6.062	6.056	6.126	VV	2596	61816	1.18%	0.031%
117	6.137	6.126	6.155	VV	957	14549	0.28%	0.007%
118	6.162	6.155	6.182	VV	657	9894	0.19%	0.005%
119	6.195	6.182	6.209	VV	847	10497	0.20%	0.005%
120	6.215	6.209	6.222	VV	657	4453	0.09%	0.002%
121	6.235	6.222	6.243	VV	756	8192	0.16%	0.004%
122	6.258	6.243	6.277	VV	983	14812	0.28%	0.007%
123	6.298	6.277	6.343	VV	7341	96950	1.85%	0.049%
124	6.348	6.343	6.364	VV	800	7361	0.14%	0.004%
125	6.376	6.364	6.387	VV	627	7133	0.14%	0.004%
126	6.404	6.387	6.433	VV	937	14859	0.28%	0.007%
127	6.449	6.433	6.461	VV	378	4801	0.09%	0.002%
128	6.481	6.461	6.514	VV	491	9745	0.19%	0.005%
129	6.549	6.514	6.573	VV	474	9829	0.19%	0.005%
130	6.599	6.573	6.632	VV	703	13586	0.26%	0.007%
131	6.668	6.632	6.688	VV	760	14195	0.27%	0.007%
132	6.705	6.688	6.736	VV	1523	25002	0.48%	0.013%
133	6.763	6.736	6.815	VV	205125	2056613	39.33%	1.030%
134	6.838	6.815	6.867	VV	1455	24444	0.47%	0.012%
135	6.870	6.867	6.888	VV	279	2896	0.06%	0.001%
136	6.891	6.888	6.900	VV	221	1393	0.03%	0.001%
137	6.917	6.900	6.935	VV	534	6545	0.13%	0.003%
138	6.957	6.935	7.003	VV	659	12692	0.24%	0.006%
139	7.013	7.003	7.021	VV	172	1486	0.03%	0.001%
140	7.043	7.021	7.058	VV	273	3494	0.07%	0.002%
141	7.085	7.058	7.118	PV	2010	39401	0.75%	0.020%
142	7.135	7.118	7.157	VV	2128	32943	0.63%	0.016%
143	7.171	7.157	7.186	VV	1579	21179	0.41%	0.011%
144	7.200	7.186	7.235	VV	1684	34948	0.67%	0.018%
145	7.264	7.235	7.279	VV	1989	39943	0.76%	0.020%
146	7.300	7.279	7.327	VV	2288	54511	1.04%	0.027%
147	7.350	7.327	7.365	VV	2311	44475	0.85%	0.022%
148	7.397	7.365	7.418	VV	9823	137771	2.63%	0.069%
149	7.428	7.418	7.473	VV	1769	37243	0.71%	0.019%
150	7.491	7.473	7.514	VV	1615	25366	0.49%	0.013%
151	7.535	7.514	7.568	VV	14281	151812	2.90%	0.076%
152	7.578	7.568	7.595	VV	588	8362	0.16%	0.004%
153	7.608	7.595	7.621	VV	588	7090	0.14%	0.004%
154	7.635	7.621	7.648	VV	824	9339	0.18%	0.005%
155	7.661	7.648	7.688	VV	674	11307	0.22%	0.006%
156	7.714	7.688	7.762	VV	1552	34122	0.65%	0.017%

				rteres				
157	7.773	7.762	7.793	VV	670	10410	0.20%	0.005%
158	7.797	7.793	7.807	VV	367	2622	0.05%	0.001%
159	7.818	7.807	7.823	VV	352	2942	0.06%	0.001%
160	7.836	7.823	7.861	VV	462	6802	0.13%	0.003%
161	7.889	7.861	7.913	VV	448	8332	0.16%	0.004%
162	7.923	7.913	7.962	VV	479	8597	0.16%	0.004%
163	7.965	7.962	7.973	VV	151	763	0.01%	0.000%
164	8.000	7.973	8.026	VV	1001	13172	0.25%	0.007%
165	8.031	8.026	8.047	VV	180	1227	0.02%	0.001%
166	8.056	8.047	8.074	VV	227	2038	0.04%	0.001%
167	8.107	8.074	8.112	PV	371	4440	0.08%	0.002%
168	8.142	8.112	8.163	VV	2736	48551	0.93%	0.024%
169	8.172	8.163	8.224	VV	1769	37542	0.72%	0.019%
170	8.243	8.224	8.262	VV	1242	17524	0.34%	0.009%
171	8.301	8.262	8.354	VV	3851	131039	2.51%	0.066%
172	8.368	8.354	8.381	VV	2607	36126	0.69%	0.018%
173	8.396	8.381	8.403	VV	4843	50292	0.96%	0.025%
174	8.416	8.403	8.457	VV	6321	115420	2.21%	0.058%
175	8.470	8.457	8.482	VV	1838	24732	0.47%	0.012%
176	8.516	8.482	8.533	VV	16524	203623	3.89%	0.102%
177	8.545	8.533	8.558	VV	8412	90200	1.73%	0.045%
178	8.597	8.558	8.645	VV	199885	2267192	43.36%	1.135%
179	8.673	8.645	8.679	VV	6888	81099	1.55%	0.041%
180	8.703	8.679	8.750	VV	56107	783162	14.98%	0.392%
181	8.755	8.750	8.777	VV	3118	43155	0.83%	0.022%
182	8.794	8.777	8.821	VV	5584	69975	1.34%	0.035%
183	8.844	8.821	8.878	VV	1039	21090	0.40%	0.011%
184	8.883	8.878	8.892	VV	322	2206	0.04%	0.001%
185	8.907	8.892	8.916	VV	473	5264	0.10%	0.003%
186	8.952	8.916	8.976	VV	1809	35574	0.68%	0.018%
187	9.001	8.976	9.032	VV	21932	242139	4.63%	0.121%
188	9.050	9.032	9.069	VV	3759	53260	1.02%	0.027%
189	9.072	9.069	9.101	VV	1835	25719	0.49%	0.013%
190	9.121	9.101	9.131	VV	1830	25045	0.48%	0.013%
191	9.136	9.131	9.153	VV	1528	18010	0.34%	0.009%
192	9.168	9.153	9.182	VV	2168	27259	0.52%	0.014%
193	9.195	9.182	9.212	VV	1920	28134	0.54%	0.014%
194	9.244	9.212	9.261	VV	5828	107007	2.05%	0.054%
195	9.277	9.261	9.301	VV	8616	105834	2.02%	0.053%
196	9.319	9.301	9.338	VV	4532	69590	1.33%	0.035%
197	9.352	9.338	9.361	VV	3006	37373	0.71%	0.019%
198	9.368	9.361	9.388	VV	2963	36388	0.70%	0.018%
199	9.416	9.388	9.436	VV	7083	104031	1.99%	0.052%
200	9.455	9.436	9.494	VV	9229	135480	2.59%	0.068%

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201	9.513	9.494	9.543	VV	5526	80420	1.54%	0.040%
202	9.570	9.543	9.588	VV	9183	122334	2.34%	0.061%
203	9.603	9.588	9.622	VV	7378	82367	1.58%	0.041%
204	9.656	9.622	9.677	VV	13781	196401	3.76%	0.098%
205	9.687	9.677	9.694	VV	2929	27228	0.52%	0.014%
206	9.708	9.694	9.730	VV	6226	74474	1.42%	0.037%
207	9.751	9.730	9.771	VV	11690	140632	2.69%	0.070%
208	9.791	9.771	9.850	VV	24669	445889	8.53%	0.223%
209	9.871	9.850	9.888	VV	6728	83591	1.60%	0.042%
210	9.938	9.888	9.962	VV	12490	243644	4.66%	0.122%
211	9.975	9.962	9.986	VV	3484	42919	0.82%	0.021%
212	10.002	9.986	10.028	VV	6383	93912	1.80%	0.047%
213	10.071	10.028	10.094	VV	49034	649603	12.42%	0.325%
214	10.114	10.094	10.154	VV	8127	172882	3.31%	0.087%
215	10.167	10.154	10.178	VV	3418	40990	0.78%	0.021%
216	10.206	10.178	10.260	VV	191837	2271140	43.43%	1.137%
217	10.291	10.260	10.305	VV	3026	65595	1.25%	0.033%
218	10.312	10.305	10.345	VV	2770	40699	0.78%	0.020%
219	10.376	10.345	10.401	VV	2248	43172	0.83%	0.022%
220	10.415	10.401	10.433	VV	1890	19916	0.38%	0.010%
221	10.460	10.433	10.473	PV	1243	16615	0.32%	0.008%
222	10.489	10.473	10.522	VV	1761	31894	0.61%	0.016%
223	10.544	10.522	10.575	VV	5703	86688	1.66%	0.043%
224	10.592	10.575	10.609	VV	1649	20729	0.40%	0.010%
225	10.651	10.609	10.662	VV	7246	125805	2.41%	0.063%
226	10.678	10.662	10.700	VV	13353	187771	3.59%	0.094%
227	10.717	10.700	10.751	VV	11171	146740	2.81%	0.073%
228	10.771	10.751	10.778	VV	3093	35434	0.68%	0.018%
229	10.796	10.778	10.826	VV	11525	203832	3.90%	0.102%
230	10.847	10.826	10.898	VV	19793	327756	6.27%	0.164%
231	10.964	10.898	10.978	VV	8022	237758	4.55%	0.119%
232	11.001	10.978	11.041	VV	20958	330751	6.33%	0.166%
233	11.073	11.041	11.083	VV	3297	57272	1.10%	0.029%
234	11.096	11.083	11.113	VV	3527	44760	0.86%	0.022%
235	11.128	11.113	11.151	VV	2157	41051	0.79%	0.021%
236	11.168	11.151	11.176	VV	4667	46625	0.89%	0.023%
237	11.201	11.176	11.244	VV	232335	2555202	48.87%	1.280%
238	11.275	11.244	11.319	VV	82112	1004807	19.22%	0.503%
239	11.327	11.319	11.343	VV	2829	33505	0.64%	0.017%
240	11.352	11.343	11.363	VV	1755	18204	0.35%	0.009%
241	11.376	11.363	11.397	VV	1614	25905	0.50%	0.013%
242	11.406	11.397	11.426	VV	957	10898	0.21%	0.005%
243	11.448	11.426	11.469	PV	2723	38971	0.75%	0.020%

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244	11.490	11.469	11.533	VV	19025	279857	5.35%	0.140%
245	11.562	11.533	11.578	VV	3759	70660	1.35%	0.035%
246	11.594	11.578	11.616	VV	5165	82497	1.58%	0.041%
247	11.652	11.616	11.678	VV	184565	2186967	41.83%	1.095%
248	11.694	11.678	11.704	VV	8654	113276	2.17%	0.057%
249	11.725	11.704	11.771	VV	24409	418182	8.00%	0.209%
250	11.803	11.771	11.824	VV	6866	129922	2.48%	0.065%
251	11.854	11.824	11.876	VV	19086	272486	5.21%	0.136%
252	11.895	11.876	11.940	VV	9364	176081	3.37%	0.088%
253	11.956	11.940	11.973	VV	4215	55682	1.06%	0.028%
254	12.005	11.973	12.020	VV	51360	647679	12.39%	0.324%
255	12.036	12.020	12.064	VV	58992	652752	12.48%	0.327%
256	12.069	12.064	12.079	VV	1577	13514	0.26%	0.007%
257	12.120	12.079	12.136	VV	39562	691698	13.23%	0.346%
258	12.154	12.136	12.168	VV	43854	511220	9.78%	0.256%
259	12.184	12.168	12.216	VV	52718	636151	12.17%	0.319%
260	12.230	12.216	12.240	VV	1074	12496	0.24%	0.006%
261	12.263	12.240	12.285	VV	3635	51569	0.99%	0.026%
262	12.327	12.285	12.338	PV	4238	82540	1.58%	0.041%
263	12.364	12.338	12.383	VV	24921	322530	6.17%	0.162%
264	12.406	12.383	12.451	VV	11205	235850	4.51%	0.118%
265	12.478	12.451	12.496	VV	20810	265600	5.08%	0.133%
266	12.508	12.496	12.523	VV	10282	125177	2.39%	0.063%
267	12.540	12.523	12.554	VV	13966	177882	3.40%	0.089%
268	12.579	12.554	12.608	VV	109988	1412593	27.02%	0.707%
269	12.625	12.608	12.634	VV	8203	110082	2.11%	0.055%
270	12.655	12.634	12.671	VV	11004	180426	3.45%	0.090%
271	12.686	12.671	12.698	VV	10416	129894	2.48%	0.065%
272	12.708	12.698	12.720	VV	8603	98706	1.89%	0.049%
273	12.732	12.720	12.739	VV	7900	85146	1.63%	0.043%
274	12.757	12.739	12.780	VV	10395	202030	3.86%	0.101%
275	12.798	12.780	12.838	VV	19818	347302	6.64%	0.174%
276	12.860	12.838	12.886	VV	19308	310935	5.95%	0.156%
277	12.909	12.886	12.928	VV	53999	705566	13.49%	0.353%
278	12.967	12.928	12.996	VV	195535	2764903	52.88%	1.385%
279	13.028	12.996	13.073	VV	263901	3172125	60.67%	1.588%
280	13.085	13.073	13.103	VV	1598	17433	0.33%	0.009%
281	13.122	13.103	13.139	VV	6455	89804	1.72%	0.045%
282	13.161	13.139	13.195	VV	26779	470301	8.99%	0.236%
283	13.212	13.195	13.227	VV	24176	314037	6.01%	0.157%
284	13.233	13.227	13.251	VV	14307	174309	3.33%	0.087%
285	13.267	13.251	13.298	VV	14289	260892	4.99%	0.131%
286	13.327	13.298	13.355	VV	241144	2783084	53.23%	1.394%

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287	13.380	13.355	13.396	VV	19680	286184	5.47%	0.143%
288	13.413	13.396	13.445	VV	22367	339053	6.48%	0.170%
289	13.462	13.445	13.480	VV	6317	102198	1.95%	0.051%
290	13.498	13.480	13.513	VV	10985	154583	2.96%	0.077%
291	13.527	13.513	13.553	VV	9853	148476	2.84%	0.074%
292	13.596	13.553	13.638	PV	14420	372917	7.13%	0.187%
293	13.659	13.638	13.693	VV	19013	330227	6.32%	0.165%
294	13.722	13.693	13.738	VV	15585	248157	4.75%	0.124%
295	13.751	13.738	13.764	VV	12350	168160	3.22%	0.084%
296	13.784	13.764	13.797	VV	26219	379349	7.25%	0.190%
297	13.808	13.797	13.863	VV	24165	461992	8.84%	0.231%
298	13.915	13.863	13.952	VV	60042	1135960	21.72%	0.569%
299	13.965	13.952	13.971	VV	7410	76760	1.47%	0.038%
300	13.982	13.971	14.000	VV	8201	107902	2.06%	0.054%
301	14.024	14.000	14.042	VV	30316	403723	7.72%	0.202%
302	14.062	14.042	14.087	VV	38264	524807	10.04%	0.263%
303	14.103	14.087	14.127	VV	10549	195730	3.74%	0.098%
304	14.169	14.127	14.214	VV	172022	2858552	54.67%	1.431%
305	14.233	14.214	14.274	VV	34753	452062	8.65%	0.226%
306	14.305	14.274	14.330	VV	5108	95331	1.82%	0.048%
307	14.349	14.330	14.360	VV	2777	33600	0.64%	0.017%
308	14.380	14.360	14.409	VV	4350	87175	1.67%	0.044%
309	14.426	14.409	14.458	VV	2344	42007	0.80%	0.021%
310	14.503	14.458	14.516	PV	3806	60358	1.15%	0.030%
311	14.536	14.516	14.550	VV	5062	70186	1.34%	0.035%
312	14.558	14.550	14.571	VV	3556	37539	0.72%	0.019%
313	14.590	14.571	14.595	VV	5689	62589	1.20%	0.031%
314	14.622	14.595	14.632	VV	13714	246284	4.71%	0.123%
315	14.653	14.632	14.695	VV	27827	470713	9.00%	0.236%
316	14.735	14.695	14.740	VV	12175	193590	3.70%	0.097%
317	14.755	14.740	14.803	VV	15227	345962	6.62%	0.173%
318	14.833	14.803	14.851	VV	34325	564846	10.80%	0.283%
319	14.857	14.851	14.873	VV	14921	165132	3.16%	0.083%
320	14.896	14.873	14.916	VV	44046	604162	11.55%	0.303%
321	14.958	14.916	14.993	VV	28279	535870	10.25%	0.268%
322	15.018	14.993	15.038	VV	10100	154860	2.96%	0.078%
323	15.071	15.038	15.117	VV	96968	1529609	29.25%	0.766%
324	15.131	15.117	15.135	PV	887	6005	0.11%	0.003%
325	15.161	15.135	15.178	VV	17970	219711	4.20%	0.110%
326	15.208	15.178	15.228	VV	98847	1349010	25.80%	0.676%
327	15.251	15.228	15.261	VV	118877	1524445	29.15%	0.763%
328	15.275	15.261	15.310	VV	155098	2063491	39.46%	1.033%
329	15.315	15.310	15.333	VV	4228	46415	0.89%	0.023%
330	15.369	15.333	15.398	VV	28917	525939	10.06%	0.263%

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331	15.413	15.398	15.431	VV	13460	199394	3.81%	0.100%
332	15.452	15.431	15.480	VV	9480	174970	3.35%	0.088%
333	15.517	15.480	15.548	PV	19773	434477	8.31%	0.218%
334	15.568	15.548	15.604	VV	13332	277602	5.31%	0.139%
335	15.625	15.604	15.629	VV	8197	100012	1.91%	0.050%
336	15.658	15.629	15.717	VV	54749	1209712	23.14%	0.606%
337	15.722	15.717	15.738	VV	2619	26490	0.51%	0.013%
338	15.763	15.738	15.769	VV	4871	67415	1.29%	0.034%
339	15.799	15.769	15.823	VV	11185	212617	4.07%	0.106%
340	15.840	15.823	15.855	VV	9190	127039	2.43%	0.064%
341	15.884	15.855	15.905	VV	45692	670287	12.82%	0.336%
342	15.922	15.905	15.952	VV	22187	325462	6.22%	0.163%
343	15.969	15.952	15.981	VV	8014	114645	2.19%	0.057%
344	16.051	15.981	16.085	VV	28481	877518	16.78%	0.439%
345	16.099	16.085	16.106	VV	4381	48758	0.93%	0.024%
346	16.124	16.106	16.150	VV	7783	138935	2.66%	0.070%
347	16.172	16.150	16.192	VV	5065	104301	1.99%	0.052%
348	16.208	16.192	16.226	VV	7322	111528	2.13%	0.056%
349	16.254	16.226	16.268	VV	7928	144135	2.76%	0.072%
350	16.300	16.268	16.346	VV	150744	2142679	40.98%	1.073%
351	16.354	16.346	16.376	VV	4154	51861	0.99%	0.026%
352	16.394	16.376	16.399	VV	2463	29538	0.56%	0.015%
353	16.415	16.399	16.431	VV	3145	40570	0.78%	0.020%
354	16.438	16.431	16.444	VV	452	2930	0.06%	0.001%
355	16.495	16.444	16.513	PV	10279	211332	4.04%	0.106%
356	16.524	16.513	16.541	VV	6239	75658	1.45%	0.038%
357	16.560	16.541	16.568	VV	7217	85115	1.63%	0.043%
358	16.597	16.568	16.621	VV	16034	330924	6.33%	0.166%
359	16.649	16.621	16.657	VV	7598	145354	2.78%	0.073%
360	16.684	16.657	16.726	VV	23385	569701	10.90%	0.285%
361	16.775	16.726	16.794	VV	97816	1557229	29.78%	0.780%
362	16.799	16.794	16.844	VV	43011	455487	8.71%	0.228%
363	16.860	16.844	16.877	VV	4833	71490	1.37%	0.036%
364	16.904	16.877	16.931	VV	26684	404590	7.74%	0.203%
365	16.954	16.931	16.986	VV	7442	150919	2.89%	0.076%
366	17.024	16.986	17.036	VV	6594	110692	2.12%	0.055%
367	17.095	17.036	17.123	VV	66701	1246973	23.85%	0.624%
368	17.154	17.123	17.195	VV	84853	1132478	21.66%	0.567%
369	17.255	17.195	17.289	VV	168020	2462847	47.10%	1.233%
370	17.331	17.289	17.349	VV	12064	334184	6.39%	0.167%
371	17.412	17.349	17.440	VV	13973	532823	10.19%	0.267%
372	17.464	17.440	17.479	VV	10698	203977	3.90%	0.102%
373	17.521	17.479	17.593	VV	24482	931059	17.81%	0.466%

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374	17.627	17.593	17.645	VV	27010	551396	10.55%	0.276%
375	17.654	17.645	17.670	VV	24423	322470	6.17%	0.161%
376	17.682	17.670	17.693	VV	21526	269725	5.16%	0.135%
377	17.703	17.693	17.725	VV	21068	319995	6.12%	0.160%
378	17.741	17.725	17.757	VV	15223	239404	4.58%	0.120%
379	17.774	17.757	17.791	VV	12610	223307	4.27%	0.112%
380	17.817	17.791	17.841	VV	21681	475984	9.10%	0.238%
381	17.859	17.841	17.872	VV	13918	237759	4.55%	0.119%
382	17.879	17.872	17.897	VV	11901	153928	2.94%	0.077%
383	17.912	17.897	17.917	VV	11195	120664	2.31%	0.060%
384	17.937	17.917	17.957	VV	11169	240566	4.60%	0.120%
385	17.966	17.957	17.981	VV	8788	112424	2.15%	0.056%
386	17.999	17.981	18.015	VV	11841	205454	3.93%	0.103%
387	18.042	18.015	18.057	VV	12619	293133	5.61%	0.147%
388	18.063	18.057	18.069	VV	12925	82161	1.57%	0.041%
389	18.084	18.069	18.089	VV	14436	160737	3.07%	0.080%
390	18.146	18.089	18.176	VV	156991	2784459	53.25%	1.394%
391	18.182	18.176	18.185	VV	12144	64946	1.24%	0.033%
392	18.234	18.185	18.240	VV	18721	508620	9.73%	0.255%
393	18.253	18.240	18.270	VV	19203	307224	5.88%	0.154%
394	18.296	18.270	18.300	VV	22204	339101	6.49%	0.170%
395	18.325	18.300	18.357	VV	24888	728404	13.93%	0.365%
396	18.383	18.357	18.413	VV	24506	638111	12.20%	0.320%
397	18.440	18.413	18.456	VV	31991	594121	11.36%	0.298%
398	18.468	18.456	18.484	VV	21568	340425	6.51%	0.170%
399	18.530	18.484	18.552	VV	82104	1894876	36.24%	0.949%
400	18.570	18.552	18.602	VV	48854	964630	18.45%	0.483%
401	18.615	18.602	18.639	VV	21446	435582	8.33%	0.218%
402	18.663	18.639	18.680	VV	39413	722519	13.82%	0.362%
403	18.698	18.680	18.755	VV	36267	1217550	23.29%	0.610%
404	18.787	18.755	18.812	VV	81936	1448815	27.71%	0.726%
405	18.828	18.812	18.842	VV	25304	421707	8.07%	0.211%
406	18.848	18.842	18.855	VV	23161	181428	3.47%	0.091%
407	18.869	18.855	18.883	VV	28367	434824	8.32%	0.218%
408	18.918	18.883	18.940	VV	40515	1064270	20.35%	0.533%
409	18.943	18.940	18.948	VV	27381	133668	2.56%	0.067%
410	18.982	18.948	19.022	VV	173706	3243405	62.03%	1.624%
411	19.025	19.022	19.038	VV	28050	251780	4.82%	0.126%
412	19.045	19.038	19.063	VV	26166	371096	7.10%	0.186%
413	19.089	19.063	19.112	VV	34979	897142	17.16%	0.449%
414	19.116	19.112	19.122	VV	29071	170976	3.27%	0.086%
415	19.138	19.122	19.162	VV	32566	746615	14.28%	0.374%
416	19.180	19.162	19.184	VV	30686	380751	7.28%	0.191%

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417	19.197	19.184	19.203	VV	31071	347647	6.65%	0.174%
418	19.221	19.203	19.237	VV	37768	693879	13.27%	0.347%
419	19.242	19.237	19.245	VV	30758	128620	2.46%	0.064%
420	19.258	19.245	19.265	VV	35299	404352	7.73%	0.202%
421	19.271	19.265	19.278	VV	34770	253076	4.84%	0.127%
422	19.301	19.278	19.322	VV	45656	1057186	20.22%	0.529%
423	19.343	19.322	19.432	VV	62962	3129117	59.84%	1.567%
424	19.472	19.432	19.494	VV	48692	1502590	28.74%	0.752%
425	19.502	19.494	19.536	VV	41369	970662	18.56%	0.486%
426	19.561	19.536	19.567	VV	37560	658291	12.59%	0.330%
427	19.592	19.567	19.608	VV	39773	937696	17.93%	0.470%
428	19.647	19.608	19.680	VV	46399	1797665	34.38%	0.900%
429	19.684	19.680	19.700	VV	40662	476894	9.12%	0.239%
430	19.771	19.700	19.818	VV	195046	5228843	100.00%	2.618%
431	19.831	19.818	19.849	VV	48626	821852	15.72%	0.412%
432	19.886	19.849	19.917	VV	53533	1879657	35.95%	0.941%
433	19.952	19.917	19.991	VV	76869	2591969	49.57%	1.298%
434	20.018	19.991	20.038	VV	71001	1736242	33.21%	0.869%
435	20.042	20.038	20.046	VV	53653	252638	4.83%	0.127%
436	20.054	20.046	20.073	VV	55421	870000	16.64%	0.436%
437	20.078	20.073	20.089	VV	54121	507358	9.70%	0.254%
438	20.123	20.089	20.172	VV	68889	2987279	57.13%	1.496%
439	20.178	20.172	20.190	VV	52440	524108	10.02%	0.262%
440	20.211	20.190	20.217	VV	52313	837976	16.03%	0.420%
441	20.226	20.217	20.263	VV	54245	1410833	26.98%	0.706%
442	20.268	20.263	20.277	VV	49129	385265	7.37%	0.193%
443	20.329	20.277	20.355	VV	83261	3147010	60.19%	1.576%
444	20.359	20.355	20.363	VV	60741	297662	5.69%	0.149%
445	20.392	20.363	20.408	VV	72222	1807095	34.56%	0.905%
446	20.414	20.408	20.442	VV	68905	1346594	25.75%	0.674%
447	20.449	20.442	20.455	VV	62335	473495	9.06%	0.237%
448	20.467	20.455	20.479	VV	65797	928264	17.75%	0.465%
449	20.513	20.479	20.551	VV	218346	4925645	94.20%	2.467%
450	20.555	20.551	20.559	VV	60311	298198	5.70%	0.149%
451	20.573	20.559	20.582	VV	63721	837790	16.02%	0.420%
452	20.590	20.582	20.597	VV	65058	583712	11.16%	0.292%
453	20.619	20.597	20.623	VV	66854	1035865	19.81%	0.519%
454	20.676	20.623	20.693	VV	75085	2919854	55.84%	1.462%
455	20.697	20.693	20.702	VV	69459	363846	6.96%	0.182%
456	20.709	20.702	20.740	VV	68929	1522034	29.11%	0.762%
457	20.748	20.740	20.756	VV	62891	599791	11.47%	0.300%
458	20.760	20.756	20.775	VV	62143	686034	13.12%	0.344%
459	20.785	20.775	20.807	VV	60795	1119378	21.41%	0.561%
460	20.821	20.807	20.828	VV	59856	769891	14.72%	0.386%

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461	20.839	20.828	20.860	VV	60910	1130439	21.62%	0.566%
462	20.863	20.860	20.869	VV	59212	300079	5.74%	0.150%
463	20.878	20.869	20.882	VV	58799	473860	9.06%	0.237%
464	20.894	20.882	20.904	VV	61263	784835	15.01%	0.393%
465	20.924	20.904	20.947	VV	62741	1523835	29.14%	0.763%
466	20.950	20.947	20.961	VV	56763	476599	9.11%	0.239%
467	20.982	20.961	21.006	VV	60189	1577299	30.17%	0.790%
468	21.014	21.006	21.041	VV	58303	1175729	22.49%	0.589%
469	21.046	21.041	21.053	VV	52194	343098	6.56%	0.172%
470	21.056	21.053	21.083	VV	51506	903623	17.28%	0.452%
471	21.089	21.083	21.095	VV	49106	331254	6.34%	0.166%
472	21.102	21.095	21.106	VV	49292	322587	6.17%	0.162%
473	21.127	21.106	21.136	VV	50420	883033	16.89%	0.442%
474	21.144	21.136	21.162	VV	49824	758632	14.51%	0.380%
475	21.165	21.162	21.186	VV	48378	695933	13.31%	0.348%
476	21.201	21.186	21.209	VV	46386	626134	11.97%	0.314%
477	21.217	21.209	21.223	VV	46797	390138	7.46%	0.195%
478	21.274	21.223	21.332	VV	162126	4940618	94.49%	2.474%
479	21.345	21.332	21.362	VV	40140	686192	13.12%	0.344%
480	21.378	21.362	21.416	VV	39710	1219560	23.32%	0.611%
481	21.423	21.416	21.447	VV	35644	630362	12.06%	0.316%
482	21.466	21.447	21.495	VV	37482	1020941	19.53%	0.511%
483	21.521	21.495	21.528	VV	37967	722023	13.81%	0.362%
484	21.541	21.528	21.562	VV	38411	734715	14.05%	0.368%
485	21.566	21.562	21.578	VV	35953	352359	6.74%	0.176%
486	21.584	21.578	21.609	VV	36316	601842	11.51%	0.301%
487	21.616	21.609	21.623	VV	31260	258168	4.94%	0.129%
488	21.627	21.623	21.647	VV	29835	396308	7.58%	0.198%
489	21.651	21.647	21.699	VV	28245	777325	14.87%	0.389%
490	21.760	21.699	21.795	VV	33529	1662451	31.79%	0.832%
491	21.803	21.795	21.828	VV	28284	518318	9.91%	0.260%
492	21.839	21.828	21.860	VV	25534	459043	8.78%	0.230%
493	21.881	21.860	21.898	VV	25188	549013	10.50%	0.275%
494	21.912	21.898	21.918	VV	23350	259897	4.97%	0.130%
495	21.928	21.918	21.933	VV	24140	222494	4.26%	0.111%
496	21.938	21.933	21.959	VV	23252	335913	6.42%	0.168%
497	21.982	21.959	22.012	VV	22468	650208	12.44%	0.326%
498	22.028	22.012	22.046	VV	18697	374246	7.16%	0.187%
499	22.077	22.046	22.117	VV	22945	728154	13.93%	0.365%
500	22.154	22.117	22.172	VV	19357	505951	9.68%	0.253%
501	22.226	22.172	22.297	VV	98013	2953861	56.49%	1.479%
502	22.301	22.297	22.307	VV	6163	37443	0.72%	0.019%
503	22.313	22.307	22.335	VV	6610	83148	1.59%	0.042%

				rteres				
504	22.342	22.335	22.347	VV	3662	22902	0.44%	0.011%
505	22.355	22.347	22.368	VV	4421	36183	0.69%	0.018%
506	22.373	22.368	22.393	VV	2823	23436	0.45%	0.012%
				Sum of corrected areas:		199698722		

FF090525.M Fri Oct 03 07:18:06 2025

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
5 TRPH STD		FF016339.D	FF090525	N-TETRACONTANE	mohammad	9/9/2025 12:27:38 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sample ID	ClientId ID	File ID	Sequence ID	Parameter	Supervised By	Supervised On	Reason
PB169938BS		FF016496.D	FF100125	N-OCTATRIACONTANE	 	 	Peak Integrated by Software incorrectly
Q3215-01		FF016502.D	FF100125	TETRACOSANE-d50 (SURROGA	 	 	Peak Integrated by Software incorrectly

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF090525

Review By	yogesh	Review On	9/5/2025 11:10:24 AM
Supervise By	mohammad	Supervise On	9/9/2025 12:27:38 AM
SubDirectory	FF090525	HP Acquire Method	HP Processing Method FF090525
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	PP24468,PP24473		

Sr#	SampleID	Data File Name	Date-Time	Operator	Status
1	MECL2	FF016333.D	05 Sep 2025 09:26	YP\AJ	Ok
2	I.BLK	FF016334.D	05 Sep 2025 09:55	YP\AJ	Ok
3	100 TRPH STD	FF016335.D	05 Sep 2025 10:25	YP\AJ	Ok
4	50 TRPH STD	FF016336.D	05 Sep 2025 10:55	YP\AJ	Ok
5	20 TRPH STD	FF016337.D	05 Sep 2025 11:24	YP\AJ	Ok
6	10 TRPH STD	FF016338.D	05 Sep 2025 11:54	YP\AJ	Ok
7	5 TRPH STD	FF016339.D	05 Sep 2025 12:24	YP\AJ	Ok,M
8	100 TRPH STD	FF016340.D	05 Sep 2025 14:55	YP\AJ	Ok
9	FF090525ICV	FF016341.D	05 Sep 2025 15:25	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF100125

Review By	yogesh	Review On	10/1/2025 12:56:15 PM
Supervise By		Supervise On	
SubDirectory	FF100125	HP Acquire Method	HP Processing Method FF090525
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24469 PP24468,PP24473		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF016481.D	01 Oct 2025 08:58	YP\AJ	Ok
2	I.BLK	FF016482.D	01 Oct 2025 09:28	YP\AJ	Ok
3	50 PPM TRPH STD	FF016483.D	01 Oct 2025 10:43	YP\AJ	Ok
4	RT MARKER	FF016484.D	01 Oct 2025 11:12	YP\AJ	Ok
5	PB169930BL	FF016485.D	01 Oct 2025 11:58	YP\AJ	Ok
6	PB169930BS	FF016486.D	01 Oct 2025 12:27	YP\AJ	Ok
7	Q3157-01	FF016487.D	01 Oct 2025 12:56	YP\AJ	Ok
8	Q3157-01MS	FF016488.D	01 Oct 2025 13:26	YP\AJ	Ok
9	Q3157-01MSD	FF016489.D	01 Oct 2025 13:55	YP\AJ	Ok
10	I.BLK	FF016490.D	01 Oct 2025 14:25	YP\AJ	Ok
11	50 PPM TRPH STD	FF016491.D	01 Oct 2025 14:55	YP\AJ	Ok
12	I.BLK	FF016492.D	01 Oct 2025 15:24	YP\AJ	Ok
13	50 PPM TRPH STD	FF016493.D	01 Oct 2025 15:54	YP\AJ	Ok
14	RT MARKER	FF016494.D	01 Oct 2025 16:23	YP\AJ	Ok
15	PB169938BL	FF016495.D	01 Oct 2025 16:53	YP\AJ	Ok
16	PB169938BS	FF016496.D	01 Oct 2025 17:24	YP\AJ	Ok,NS
17	Q3215-01	FF016497.D	01 Oct 2025 17:54	YP\AJ	Ok
18	Q3216-01	FF016498.D	01 Oct 2025 18:23	YP\AJ	Ok
19	Q3216-01MS	FF016499.D	01 Oct 2025 18:53	YP\AJ	Ok
20	Q3216-01MSD	FF016500.D	01 Oct 2025 19:23	YP\AJ	Ok
21	Q3238-01	FF016501.D	01 Oct 2025 19:52	YP\AJ	Ok

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF100125

Review By	yogesh	Review On	10/1/2025 12:56:15 PM
Supervise By		Supervise On	
SubDirectory	FF100125	HP Acquire Method	HP Processing Method FF090525
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24467,PP24469,PP24470,PP24471,PP24472		
CCC Internal Standard/PEM	PP24469		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24468,PP24473		

22	Q3215-01	FF016502.D	01 Oct 2025 20:21	YP\AJ	Not Ok
23	Q3216-01	FF016503.D	01 Oct 2025 20:51	YP\AJ	Not Ok
24	Q3238-01	FF016504.D	01 Oct 2025 21:21	YP\AJ	Not Ok
25	I.BLK	FF016505.D	01 Oct 2025 21:50	YP\AJ	Ok
26	50 PPM TRPH STD	FF016506.D	01 Oct 2025 22:20	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF090525

Review By	yogesh	Review On	9/5/2025 11:10:24 AM
Supervise By	mohammad	Supervise On	9/9/2025 12:27:38 AM
SubDirectory	FF090525	HP Acquire Method	HP Processing Method
			FF090525
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	PP24468,PP24473		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2		FF016333.D	05 Sep 2025 09:26		YP\AJ	Ok
2	I.BLK		FF016334.D	05 Sep 2025 09:55		YP\AJ	Ok
3	100 TRPH STD		FF016335.D	05 Sep 2025 10:25		YP\AJ	Ok
4	50 TRPH STD		FF016336.D	05 Sep 2025 10:55		YP\AJ	Ok
5	20 TRPH STD		FF016337.D	05 Sep 2025 11:24		YP\AJ	Ok
6	10 TRPH STD		FF016338.D	05 Sep 2025 11:54		YP\AJ	Ok
7	5 TRPH STD		FF016339.D	05 Sep 2025 12:24		YP\AJ	Ok,M
8	100 TRPH STD		FF016340.D	05 Sep 2025 14:55		YP\AJ	Ok
9	FF090525ICV		FF016341.D	05 Sep 2025 15:25		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF100125

Review By	yogesh	Review On	10/1/2025 12:56:15 PM
Supervise By		Supervise On	
SubDirectory	FF100125	HP Acquire Method	HP Processing Method FF090525

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		FF016481.D	01 Oct 2025 08:58		YPIAJ	Ok
2	I.BLK		FF016482.D	01 Oct 2025 09:28		YPIAJ	Ok
3	50 PPM TRPH STD		FF016483.D	01 Oct 2025 10:43		YPIAJ	Ok
4	RT MARKER		FF016484.D	01 Oct 2025 11:12		YPIAJ	Ok
5	PB169930BL		FF016485.D	01 Oct 2025 11:58		YPIAJ	Ok
6	PB169930BS		FF016486.D	01 Oct 2025 12:27		YPIAJ	Ok
7	Q3157-01		FF016487.D	01 Oct 2025 12:56		YPIAJ	Ok
8	Q3157-01MS		FF016488.D	01 Oct 2025 13:26		YPIAJ	Ok
9	Q3157-01MSD		FF016489.D	01 Oct 2025 13:55		YPIAJ	Ok
10	I.BLK		FF016490.D	01 Oct 2025 14:25		YPIAJ	Ok
11	50 PPM TRPH STD		FF016491.D	01 Oct 2025 14:55		YPIAJ	Ok
12	I.BLK		FF016492.D	01 Oct 2025 15:24		YPIAJ	Ok
13	50 PPM TRPH STD		FF016493.D	01 Oct 2025 15:54		YPIAJ	Ok
14	RT MARKER		FF016494.D	01 Oct 2025 16:23		YPIAJ	Ok
15	PB169938BL		FF016495.D	01 Oct 2025 16:53		YPIAJ	Ok
16	PB169938BS		FF016496.D	01 Oct 2025 17:24		YPIAJ	Ok,NS
17	Q3215-01		FF016497.D	01 Oct 2025 17:54		YPIAJ	Ok
18	Q3216-01		FF016498.D	01 Oct 2025 18:23		YPIAJ	Ok

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF100125

Review By	yogesh	Review On	10/1/2025 12:56:15 PM
Supervise By		Supervise On	
SubDirectory	FF100125	HP Acquire Method	HP Processing Method FF090525
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			

19	Q3216-01MS		FF016499.D	01 Oct 2025 18:53		YPIAJ	Ok
20	Q3216-01MSD		FF016500.D	01 Oct 2025 19:23		YPIAJ	Ok
21	Q3238-01		FF016501.D	01 Oct 2025 19:52		YPIAJ	Ok
22	Q3215-01		FF016502.D	01 Oct 2025 20:21	not required	YPIAJ	Not Ok
23	Q3216-01		FF016503.D	01 Oct 2025 20:51	not required	YPIAJ	Not Ok
24	Q3238-01		FF016504.D	01 Oct 2025 21:21	not required	YPIAJ	Not Ok
25	I.BLK		FF016505.D	01 Oct 2025 21:50		YPIAJ	Ok
26	50 PPM TRPH STD		FF016506.D	01 Oct 2025 22:20		YPIAJ	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 9/30/2025

OVENTEMP IN Celsius(°C): 104
Time IN: 16:30
In Date: 09/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:37
Out Date: 09/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137353

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
Q3238-01	RCA	1	1.00	1.00	2.00	2.00	100.0	concreate sample
Q3239-01	92325	2	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3240-01	OK-02-092925	3	1.13	10.20	11.33	10.9	95.8	
Q3240-02	OK-02-092925-E2	4	1.15	10.03	11.18	10.66	94.8	
Q3242-01	92325	5	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3243-01	91825AB	6	1.00	1.00	2.00	2.00	100.0	WOOD
Q3244-01	80625	7	1.00	1.00	2.00	2.00	100.0	OIL
Q3245-01	13-1	8	1.16	9.94	11.1	10.49	93.9	
Q3245-02	13-1	9	1.15	10.43	11.58	10.9	93.5	
Q3245-03	13-1-EPH-A	10	1.12	10.06	11.18	10.21	90.4	
Q3245-04	13-1-EPH-B	11	1.14	10.89	12.03	11.29	93.2	
Q3245-05	13-1-EPH-C	12	1.12	10.16	11.28	10.7	94.3	
Q3245-06	13-1-EPH-D	13	1.11	11.15	12.26	11.5	93.2	
Q3245-07	13-1-EPH-E	14	1.14	10.78	11.92	11.12	92.6	
Q3245-09	12-8	15	1.15	10.54	11.69	10.87	92.2	
Q3245-10	12-8	16	1.15	10.59	11.74	10.96	92.6	
Q3245-11	12-8-EPH-A	17	1.12	10.14	11.26	10.19	89.4	
Q3245-12	12-8-EPH-B	18	1.14	10.38	11.52	10.9	94.0	
Q3245-13	12-8-EPH-C	19	1.15	10.11	11.26	10.44	91.9	
Q3245-14	12-8-EPH-D	20	1.13	10.59	11.72	10.96	92.8	
Q3245-15	12-8-EPH-E	21	1.14	10.73	11.87	11.12	93.0	
Q3245-17	12-1	22	1.13	10.53	11.66	10.58	89.7	
Q3245-18	12-1	23	1.14	10.67	11.81	10.8	90.5	
Q3245-19	12-1-EPH-A	24	1.11	10.03	11.14	10.33	91.9	
Q3245-20	12-1-EPH-B	25	1.13	10.31	11.44	10.36	89.5	
Q3245-21	12-1-EPH-C	26	1.14	10.05	11.19	10.28	90.9	
Q3245-22	12-1-EPH-D	27	1.13	9.97	11.1	10.09	89.9	
Q3245-23	12-1-EPH-E	28	1.15	10.67	11.82	10.8	90.4	

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

WORKLIST(Hardcopy Internal Chain)

LB 137353

WorkList Name : % SOLID -092925 WorkList ID : 192155 Department : Wet-Chemistry Date : 09-29-2025 15:47:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3238-01	RCA	Solid	Percent Solids	Cool 4 deg C	YANN01	D31	09/18/2025	Chemtech -SO
Q3239-01	92325	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3240-01	OK-02-092925	Solid	Percent Solids	Cool 4 deg C	PSEG05	D21	09/29/2025	Chemtech -SO
Q3240-02	OK-02-092925-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D21	09/29/2025	Chemtech -SO
Q3242-01	92325	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3243-01	91825AB	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3244-01	80625	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-01	13-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-02	13-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-03	13-1-EPH-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-04	13-1-EPH-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-05	13-1-EPH-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-06	13-1-EPH-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-07	13-1-EPH-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-09	12-8	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-10	12-8	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-11	12-8-EPH-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-12	12-8-EPH-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-13	12-8-EPH-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-14	12-8-EPH-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-15	12-8-EPH-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO

Date/Time 09/29/25 16:00
 Raw Sample Received by: 12CWC
 Raw Sample Relinquished by: 12CWC

WORKLIST(Hardcopy Internal Chain)

WorkList Name : % SOLID -092925
 WorkList ID : 192155
 Department : Wet-Chemistry
 Date : 09-29-2025 15:47:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3245-17	12-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-18	12-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-19	12-1-EPH-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-20	12-1-EPH-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-21	12-1-EPH-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-22	12-1-EPH-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3245-23	12-1-EPH-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO

Date/Time 09/29/25 16:00
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 09/29/25 16:45
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

SOP ID: M3541-ASE Extraction-15

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: EH

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 10/01/2025

Extraction Start Time : 10:40

Extraction End Date : 10/01/2025

Extraction End Time : 13:55

Concentration By: EH

Supervisor By : ritesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	20 PPM	PP24596
Spike Sol 1	1.0ML	20 PPM	PP24583
N/A	N/A	20 PPM	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	EP2641
Baked Na2SO4	N/A	EP2646
Methylene Chloride	N/A	E3973
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
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

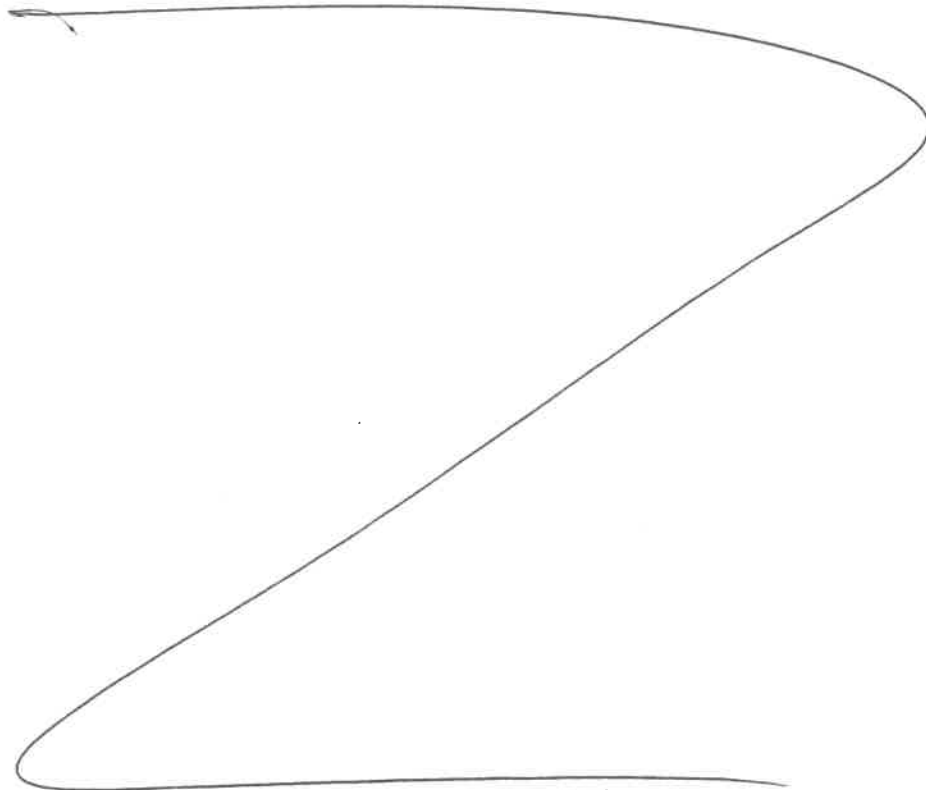
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/01/25 14:00	R3 (Ext-140)	Y-P-pestip43
	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-15

Concentration Date: 10/01/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169938BL	PB169938BL	TPH GC	30.02	N/A	ritesh	Evelyn	1			U4-1
PB169938BS	PB169938BS	TPH GC	30.01	N/A	ritesh	Evelyn	1			2
Q3215-01	WASTE	TPH GC	30.04	N/A	ritesh	Evelyn	1			3
Q3216-01	WASTE	TPH GC	30.09	N/A	ritesh	Evelyn	1			4
Q3216-01MS	WASTEMS	TPH GC	30.08	N/A	ritesh	Evelyn	1			5
Q3216-01MS D	WASTEMSD	TPH GC	30.03	N/A	ritesh	Evelyn	1			6
Q3238-01	RCA	TPH GC	30.05	N/A	ritesh	Evelyn	1	B	Concrete	U6-1



RJ
10/01

10:40
1938

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3215T WorkList ID : 192203 Department : Extraction Date : 10-01-2025 08:54:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3215-01	WASTE	Solid	TPH GC	Cool 4 deg C	SCIA01	J41	09/25/2025	8015D
Q3216-01	WASTE	Solid	TPH GC	Cool 4 deg C	SCIA01	J41	09/25/2025	8015D
Q3238-01	RCA	Solid	TPH GC	Cool 4 deg C	YANN01	D31	09/18/2025	8015D

Date/Time 10/01/25 10:35
Raw Sample Received by: RJ LEE-LOW CP SM
Raw Sample Relinquished by: CP SM

Date/Time 10/01/25 10:50
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ LEE-LOW



SHIPPING DOCUMENTS

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3238	YANN01	Order Date : 9/29/2025 1:34:00 PM	Project Mgr :
Client Name : Yannuzzi Group, Inc.		Project Name : Edison Yard	Report Type : Results+QC
Client Contact : Alyssa Yannuzzi		Receive DateTime : 9/29/2025 12:10:00 PM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Yannuzzi Group, Inc.		Purchase Order :	Hard Copy Date :
Invoice Contact : Alyssa Yannuzzi			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3238-01	RCA	Solid	09/18/2025	10:31	VOC-TCLVOA-10	TCL+30/TAL	8260D		10 Bus. Days

Relinquished By : 

Date / Time : 9/29/25 14:05

Received By : 

Date / Time : 09/29/25

Storage Area : VOA Refridgerator Room

14:00