LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092319\
Data File : BF117212.D
Acq On : 23 Sep 2019 18:33
Operator : HP/JU
Sample : K4980-06
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SAND-STOCKPILE-2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.439	566	570	584	rBV	572310	539042	70.79%	5.123%
2	5.651	603	606	610	rBV	13914	14131	1.86%	0.134%
3	6.457	739	743	759	rBV	642151	615213	80.79%	5.847%
4	6.586	761	765	772	rVV	768238	643147	84.46%	6.113%
5	6.645	772	775	780	rVV	23197	22490	2.95%	0.214%
6	6.816	800	804	812	rBB	152946	144219	18.94%	1.371%
7	6.969	827	830	834	rBV	574847	474379	62.30%	4.509%
8	7.075	845	848	856	rBV	21218	22090	2.90%	0.210%
9	7.375	895	899	906	rBV	412492	365151	47.95%	3.471%
10	7.669	946	949	956	rVB	45985	40023	5.26%	0.380%
11	8.092	1018	1021	1024	rBV	196175	185495	24.36%	1.763%
12	8.116	1024	1025	1033	rVB	40104	26663	3.50%	0.253%
13	8.310	1055	1058	1065	rBV	48737	39943	5.25%	0.380%
14	8.369	1065	1068	1075	rVB	45805	38834	5.10%	0.369%
15	8.804	1138	1142	1150	rBV2	47935	58296	7.66%	0.554%
16	8.904	1156	1159	1166	rBB	43642	38585	5.07%	0.367%
17	9.169	1200	1204	1207	rBV	969995	761467	100.00%	7.238%
18	9.286	1219	1224	1229	rBV3	40977	46423	6.10%	0.441%
19	9.433	1246	1249	1252	rBV2	16957	21253	2.79%	0.202%
20	9.510	1258	1262	1264	rBV	37168	36603	4.81%	0.348%
21	9.533	1264	1266	1268	rVV	23625	18828	2.47%	0.179%
22	9.563	1268	1271	1277	rVV	158356	150227	19.73%	1.428%
23	9.621	1279	1281	1288	rVB	16373	20085	2.64%	0.191%
24	9.710	1293	1296	1300	rBV	69108	59874	7.86%	0.569%
25	9.845	1316	1319	1323	rVV	248130	220971	29.02%	2.100%
26	9.880	1323	1325	1329	rVB2	17350	15846	2.08%	0.151%
27	10.051	1351	1354	1357	rVV2	14956	12627	1.66%	0.120%
28	10.086	1357	1360	1364	rVB	12676	12605	1.66%	0.120%
29	10.163	1369	1373	1376	rBV2	14582	17279	2.27%	0.164%
30	10.392	1410	1412	1417	rBV	43250	47245	6.20%	0.449%
31	10.639	1450	1454	1467	rVB	509549	451367	59.28%	4.290%
32	10.763	1471	1475	1480	rVB4	12298	15023	1.97%	0.143%
33	10.863	1489	1492	1497	rVB	14079	12510	1.64%	0.119%
34	10.945	1502	1506	1508	rBV	20697	21944	2.88%	0.209%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092319\
Data File : BF117212.D
Acq On : 23 Sep 2019 18:33
Operator : HP/JU
Sample : K4980-06
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SAND-STOCKPILE-2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.145	1537	1540	1544	rBV	20227	21282	2.79%	0.202%
36	11.227	1551	1554	1560	rVB	22682	21878	2.87%	0.208%
37	11.333	1568	1572	1574	rBV	244348	214097	28.12%	2.035%
38	11.357	1574	1576	1582	rVB	316865	263840	34.65%	2.508%
39	11.410	1582	1585	1588	rBV	37080	31363	4.12%	0.298%
40	11.574	1610	1613	1616	rBV4	8214	14719	1.93%	0.140%
41	11.627	1618	1622	1625	rVV2	15541	16494	2.17%	0.157%
42	11.668	1625	1629	1633	rVB2	25396	27244	3.58%	0.259%
43	11.745	1640	1642	1647	rVB2	15964	17672	2.32%	0.168%
44	11.792	1647	1650	1654	rBV4	11310	12647	1.66%	0.120%
45	11.833	1654	1657	1659	rVV	106132	94763	12.44%	0.901%
46	11.863	1659	1662	1668	rVV2	155164	155618	20.44%	1.479%
47	11.910	1668	1670	1673	rVV	19495	22713	2.98%	0.216%
48	11.945	1673	1676	1678	rVV2	118228	120199	15.79%	1.142%
49	11.968	1678	1680	1686	rVB	75200	69528	9.13%	0.661%
50	12.127	1704	1707	1710	rBV	41674	36735	4.82%	0.349%
51	12.163	1710	1713	1717	rVB2	19833	22502	2.96%	0.214%
52	12.280	1728	1733	1736	rBV2	16400	19333	2.54%	0.184%
53	12.310	1736	1738	1741	rBV	25762	22474	2.95%	0.214%
54	12.386	1747	1751	1754	rBV2	101411	118841	15.61%	1.130%
55	12.421	1754	1757	1759	rVV3	45938	57296	7.52%	0.545%
56	12.439	1759	1760	1763	rVB	20893	13189	1.73%	0.125%
57	12.474	1763	1766	1771	rVB2	34645	41625	5.47%	0.396%
58	12.545	1775	1778	1781	rBV	204265	182949	24.03%	1.739%
59	12.645	1792	1795	1798	rVV	34033	33342	4.38%	0.317%
60	12.704	1798	1805	1807	rVV5	11950	22536	2.96%	0.214%
61	12.774	1811	1817	1824	rBV	291076	312728	41.07%	2.972%
62	12.833	1824	1827	1831	rVB3	16912	20660	2.71%	0.196%
63	12.915	1837	1841	1844	rBV	703402	600096	78.81%	5.704%
64	12.998	1851	1855	1861	rBV2	35060	55571	7.30%	0.528%
65	13.080	1866	1869	1870	rVV2	33554	31027	4.07%	0.295%
66	13.104	1871	1873	1877	rVV2	54471	52119	6.84%	0.495%
67	13.145	1877	1880	1882	rVV3	16639	18164	2.39%	0.173%
68	13.168	1882	1884	1887	rVV	33991	34534	4.54%	0.328%
69	13.210	1887	1891	1898	rVB	61537	64838	8.51%	0.616%
70	13.304	1904	1907	1909	rBV2	40605	36179	4.75%	0.344%
71	13.333	1909	1912	1915	rVV	44882	39970	5.25%	0.380%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092319\
Data File : BF117212.D
Acq On : 23 Sep 2019 18:33
Operator : HP/JU
Sample : K4980-06
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SAND-STOCKPILE-2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.586	1952	1955	1957	rBV3	13031	16584	2.18%	0.158%
73	13.615	1957	1960	1964	rVB	31302	35057	4.60%	0.333%
74	13.721	1973	1978	1981	rBV3	29066	45358	5.96%	0.431%
75	13.751	1981	1983	1985	rVV	29574	24896	3.27%	0.237%
76	13.774	1985	1987	1989	rVV	15991	14136	1.86%	0.134%
77	13.821	1989	1995	2003	rVB6	63298	136413	17.91%	1.297%
78	13.974	2016	2021	2024	rBV2	202018	304951	40.05%	2.899%
79	13.998	2024	2025	2032	rVB	120289	107979	14.18%	1.026%
80	14.062	2032	2036	2038	rBV3	10070	15195	2.00%	0.144%
81	14.127	2044	2047	2053	rVB4	44750	52982	6.96%	0.504%
82	14.292	2073	2075	2078	rVB4	14494	13270	1.74%	0.126%
83	14.321	2078	2080	2082	rBV	17601	18549	2.44%	0.176%
84	14.362	2082	2087	2089	rVV	56127	62658	8.23%	0.596%
85	14.392	2090	2092	2095	rVB2	31085	24398	3.20%	0.232%
86	14.433	2095	2099	2101	rBV	78846	78285	10.28%	0.744%
87	14.486	2105	2108	2110	rBV	31857	29698	3.90%	0.282%
88	14.733	2139	2150	2155	rBV	114366	171713	22.55%	1.632%
89	14.851	2167	2170	2174	rBV5	13619	22059	2.90%	0.210%
90	15.009	2193	2197	2203	rBV	75521	143020	18.78%	1.359%
91	15.062	2203	2206	2211	rVB	168192	178680	23.47%	1.698%
92	15.115	2211	2215	2223	rBV2	20967	38140	5.01%	0.363%
93	15.303	2243	2247	2253	rVB	58694	72715	9.55%	0.691%
94	15.368	2254	2258	2263	rBV	80275	97804	12.84%	0.930%
95	15.433	2264	2269	2275	rBV	228712	309392	40.63%	2.941%
96	15.856	2335	2341	2346	rBV	102288	153211	20.12%	1.456%
97	16.345	2414	2424	2428	rBV	49628	94382	12.39%	0.897%
98	16.880	2507	2515	2518	rBV4	23329	50528	6.64%	0.480%
99	17.050	2538	2544	2546	rBV6	9491	20185	2.65%	0.192%
100	17.315	2583	2589	2594	rBV2	20385	38100	5.00%	0.362%

Sum of corrected areas: 10520981

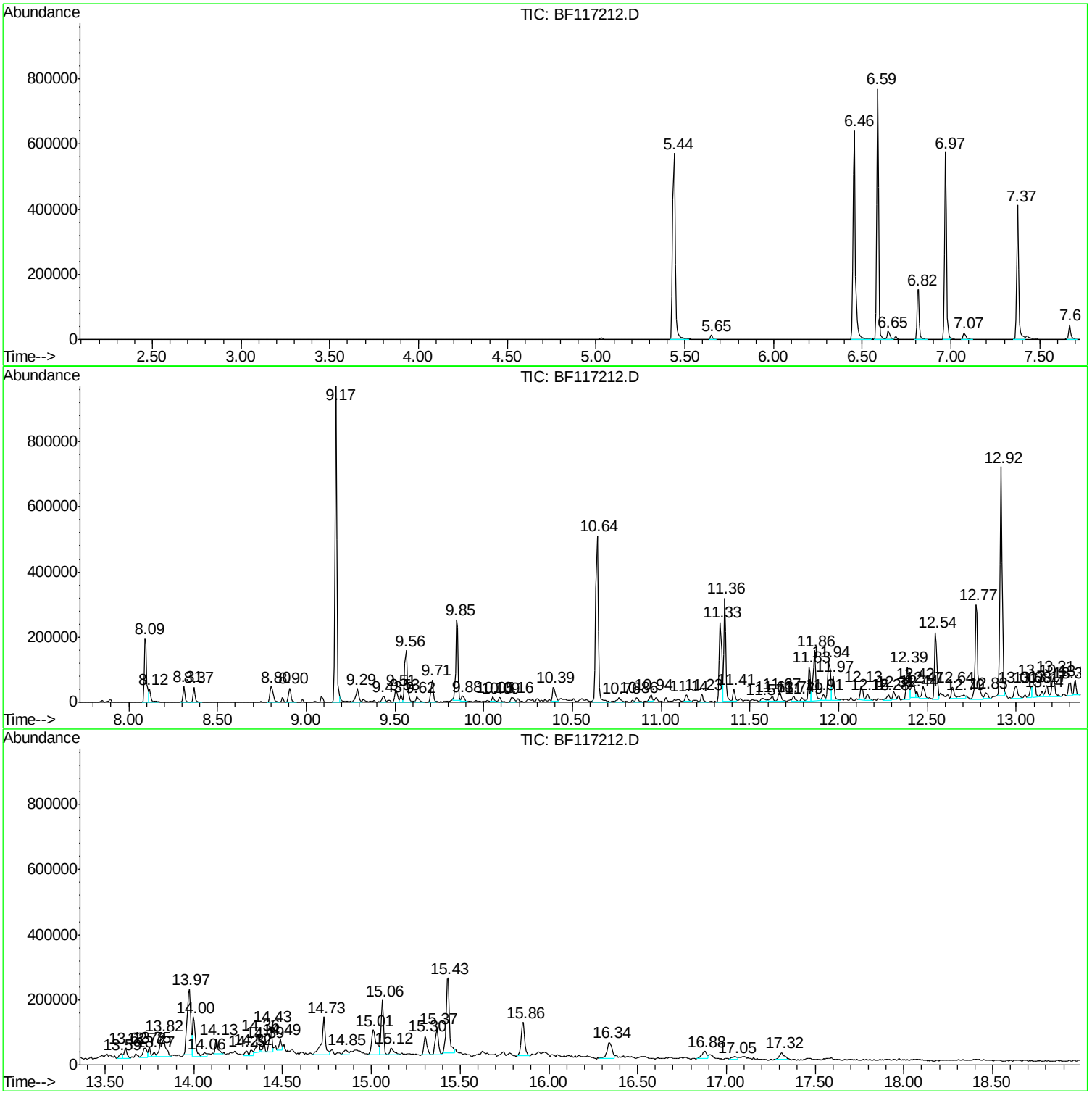
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092319\
Data File : BF117212.D
Acq On : 23 Sep 2019 18:33
Operator : HP/JU
Sample : K4980-06
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SAND-STOCKPILE-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092319\
Data File : BF117212.D
Acq On : 23 Sep 2019 18:33
Operator : HP/JU
Sample : K4980-06
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SAND-STOCKPILE-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

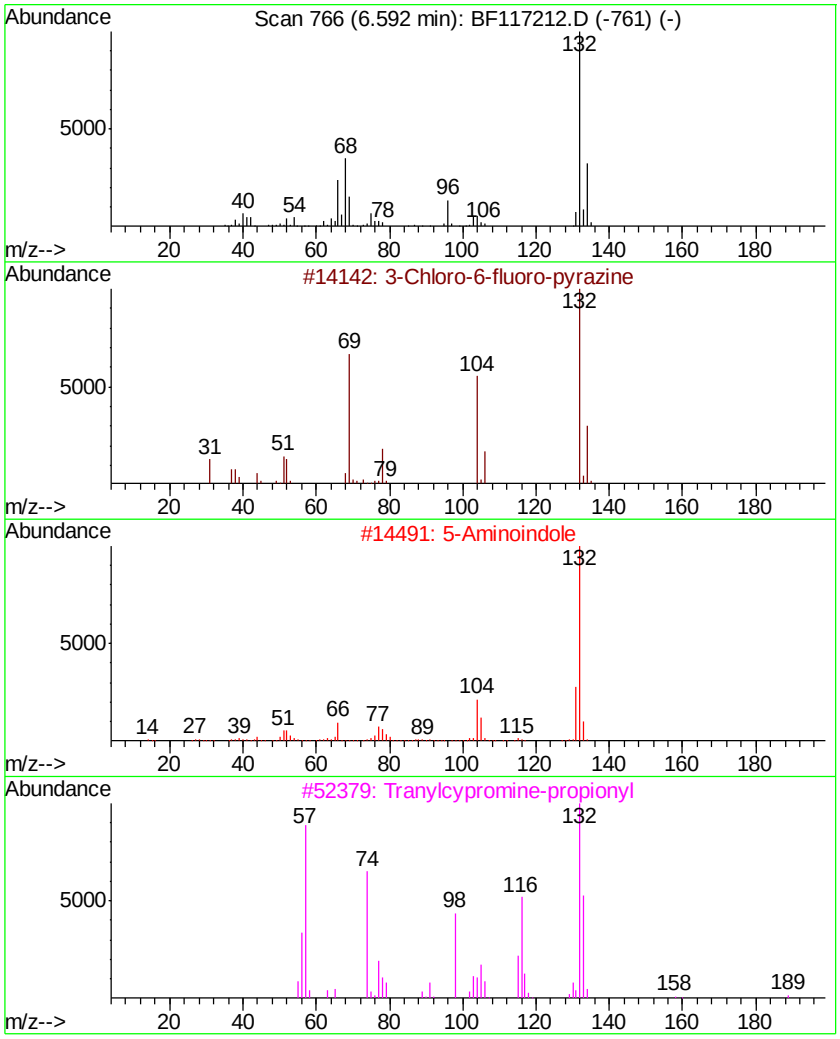
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

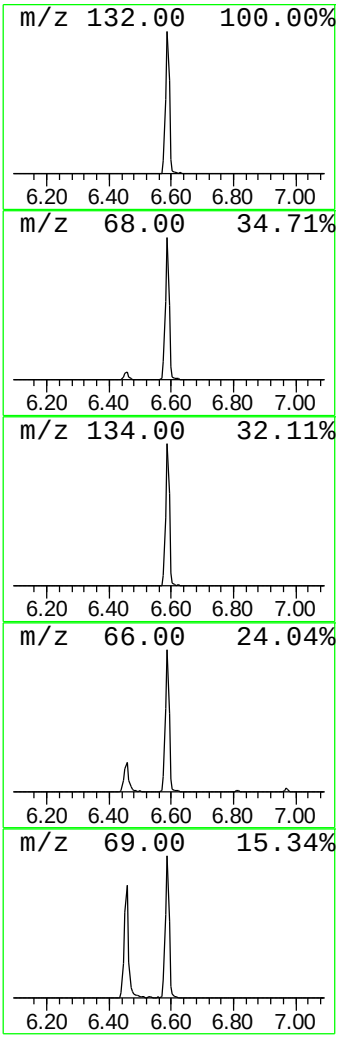
****

Peak Number 1 unknown6.59 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.59	89.19 ng	643147	1,4-Dichlorobenzene-d4	6.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Aminoindole	132	C8H8N2	005192-03-0	22
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
5	(5-Methyl-2-pyridyl)acetonitrile	132	C8H8N2	1000241-93-9	10





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092319\
Data File : BF117212.D
Acq On : 23 Sep 2019 18:33
Operator : HP/JU
Sample : K4980-06
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SAND-STOCKPILE-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

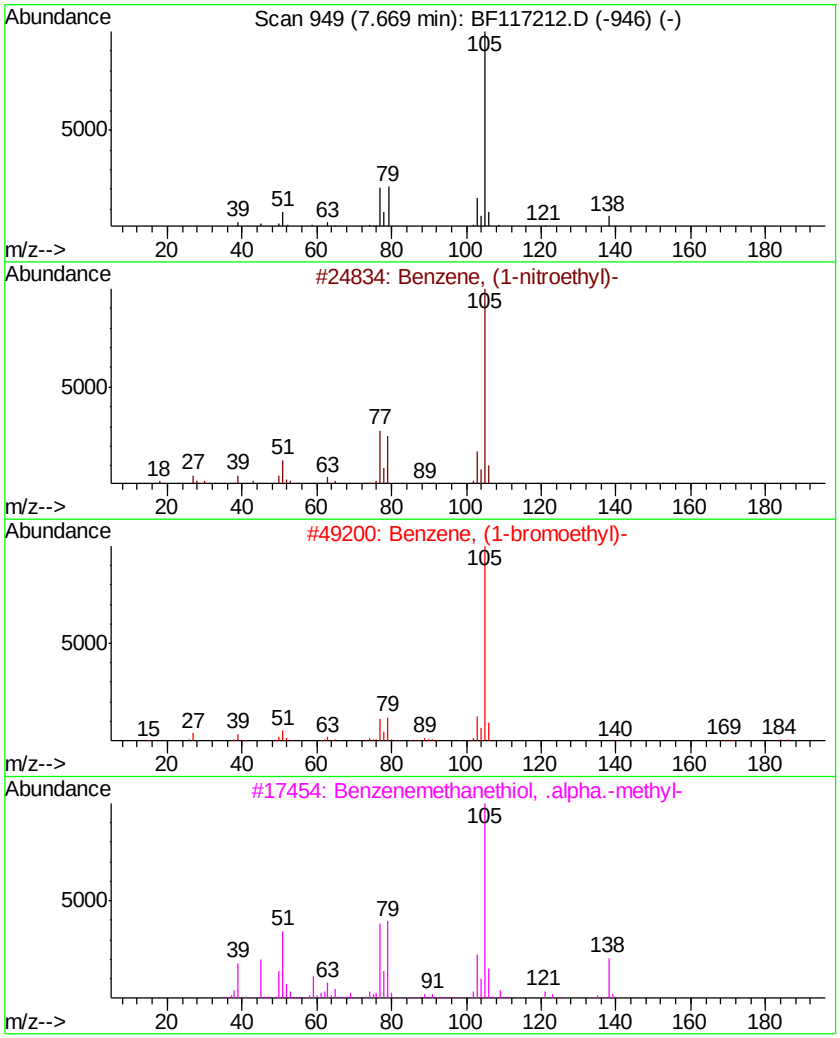
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

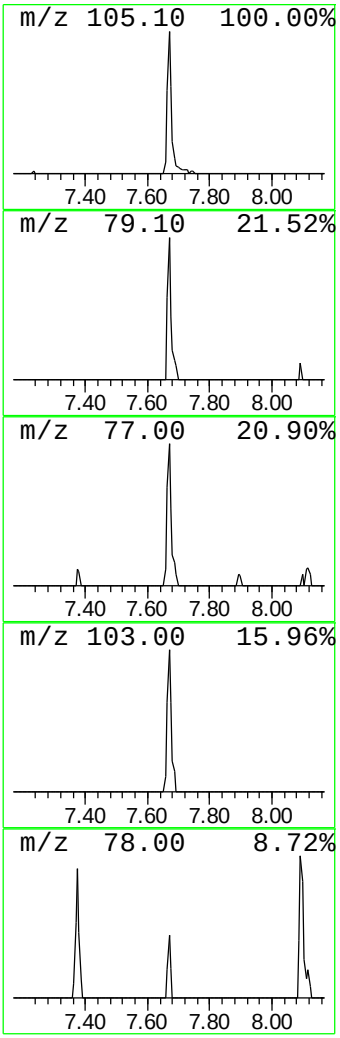
****

Peak Number 3 Benzene, (1-nitroethyl)- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.67	4.32 ng	40023	Naphthalene-d8	8.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-nitroethyl)-	151	C8H9NO2	007214-61-1	78
2	Benzene, (1-bromoethyl)-	184	C8H9Br	000585-71-7	78
3	Benzenemethanethiol, .alpha.-met...	138	C8H10S	006263-65-6	74
4	Ether, p-methylbenzyl vinyl	148	C10H12O	026437-10-5	59
5	Benzene, 1,1'-(oxydiethylidene)bis-	226	C16H18O	000093-96-9	50





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092319\
Data File : BF117212.D
Acq On : 23 Sep 2019 18:33
Operator : HP/JU
Sample : K4980-06
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SAND-STOCKPILE-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

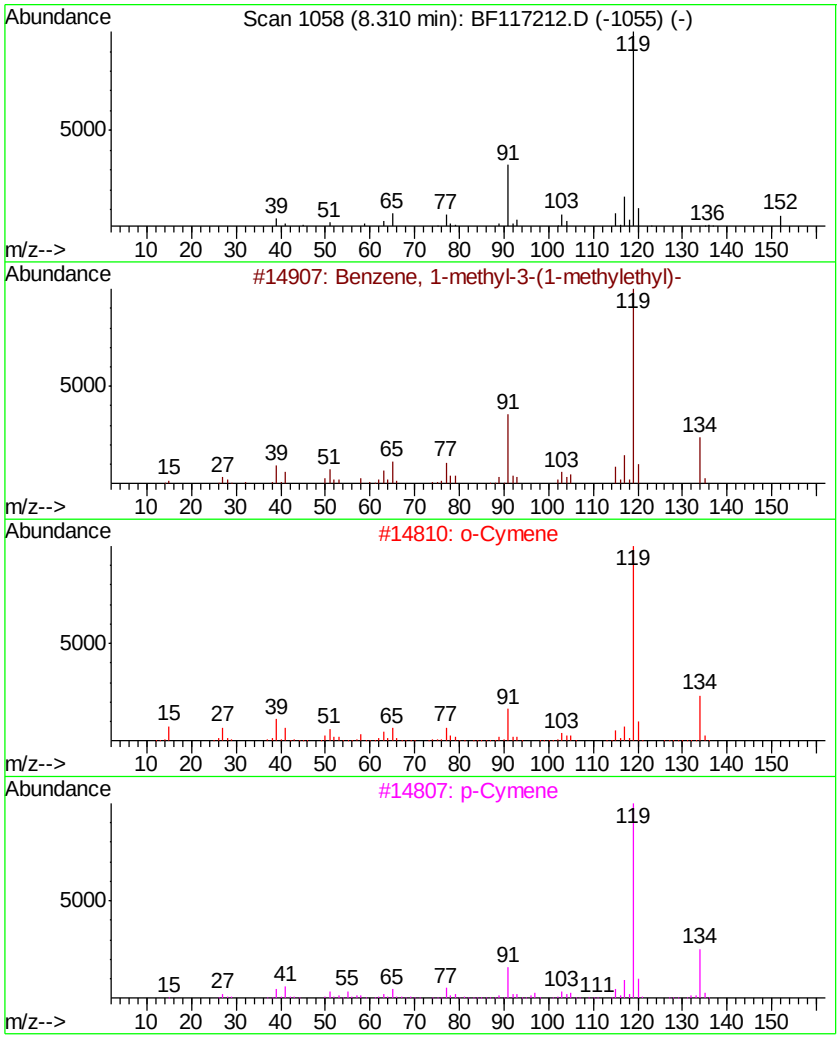
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

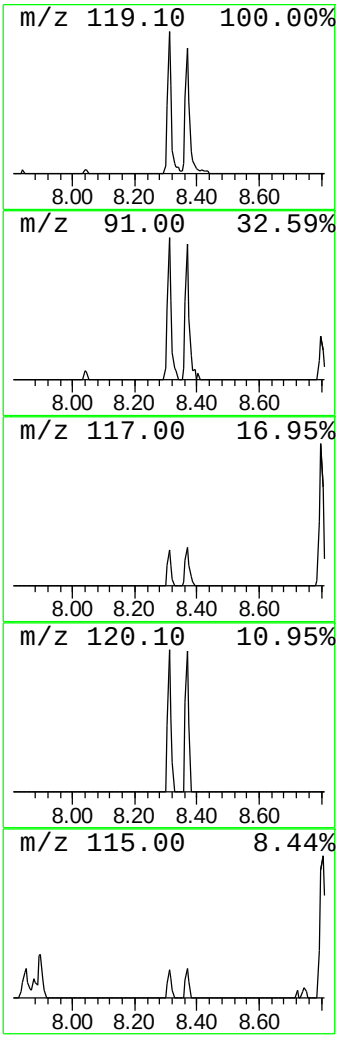
****

Peak Number 4 Benzene, 1-methyl-3-(1-meth... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.31	4.31 ng	39943	Naphthalene-d8	8.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	78
2	o-Cymene	134	C10H14	000527-84-4	72
3	p-Cymene	134	C10H14	000099-87-6	72
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	72
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092319\
Data File : BF117212.D
Acq On : 23 Sep 2019 18:33
Operator : HP/JU
Sample : K4980-06
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SAND-STOCKPILE-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

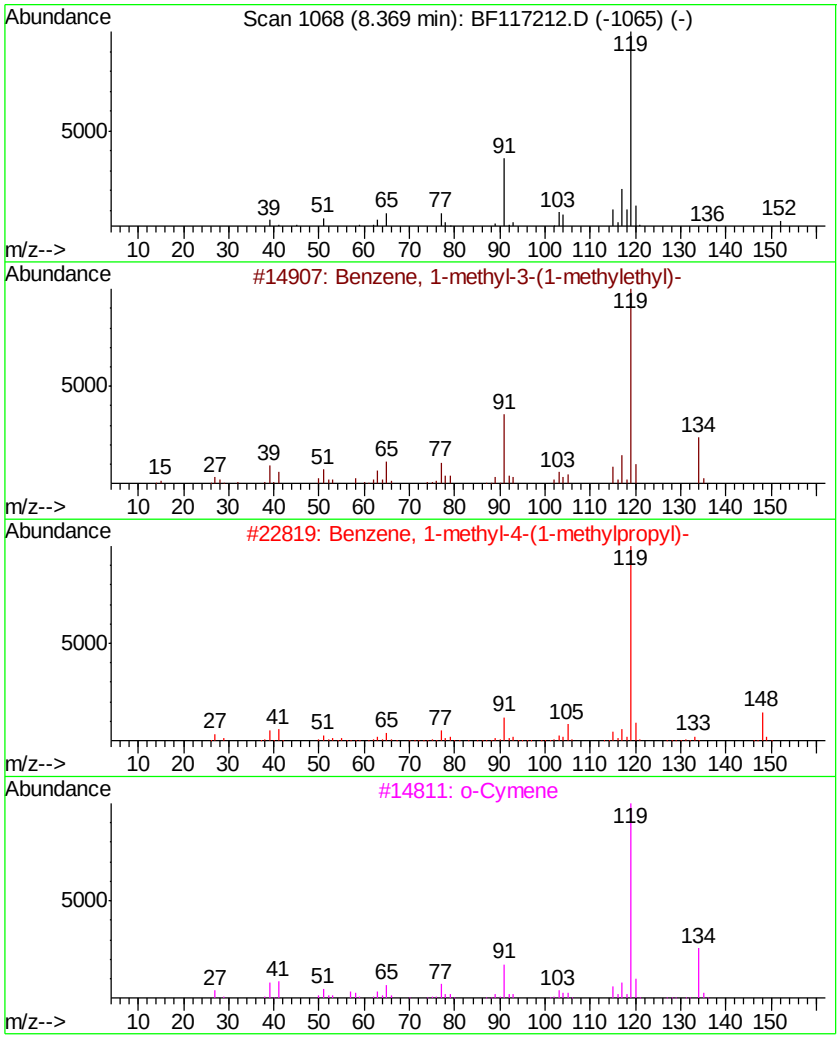
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

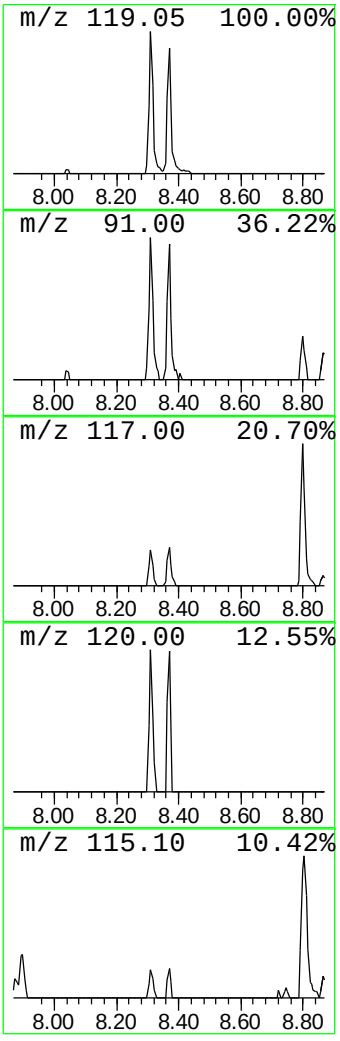
****

Peak Number 5 Benzene, 1-methyl-4-(1-meth... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.37	4.19 ng	38834	Naphthalene-d8	8.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	72
2	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	64
3	o-Cymene	134	C10H14	000527-84-4	64
4	p-Cymene	134	C10H14	000099-87-6	64
5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	64





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092319\
Data File : BF117212.D
Acq On : 23 Sep 2019 18:33
Operator : HP/JU
Sample : K4980-06
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SAND-STOCKPILE-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

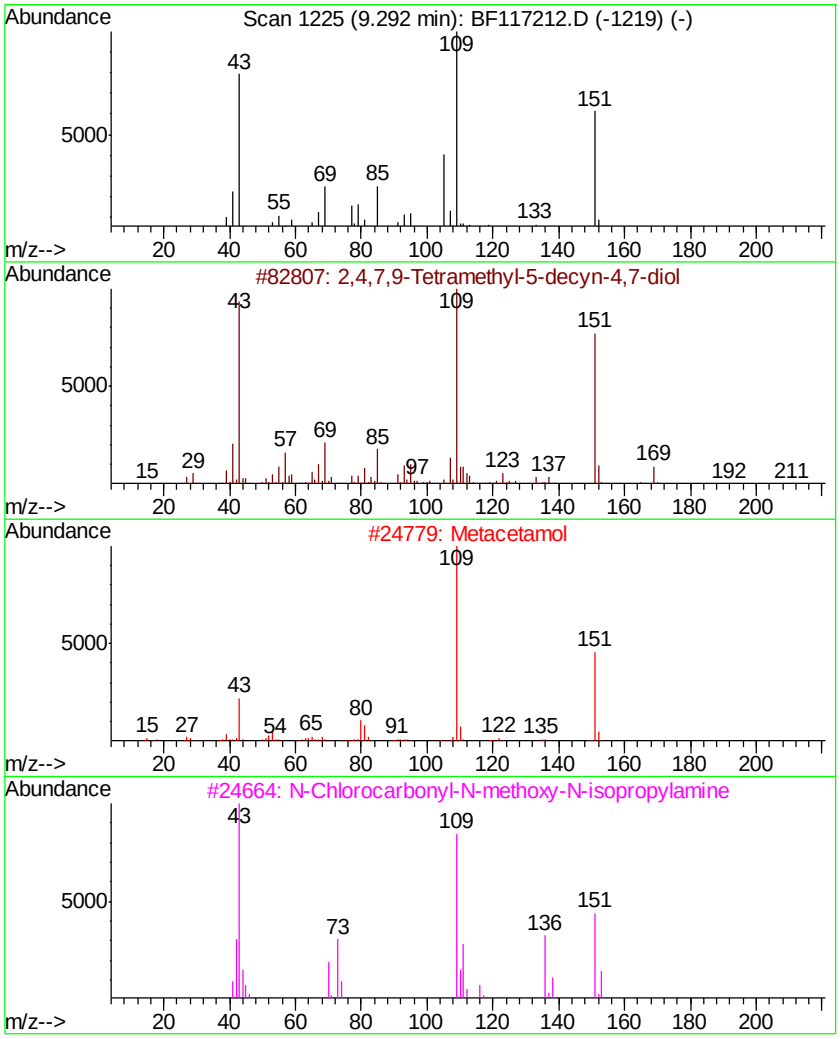
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

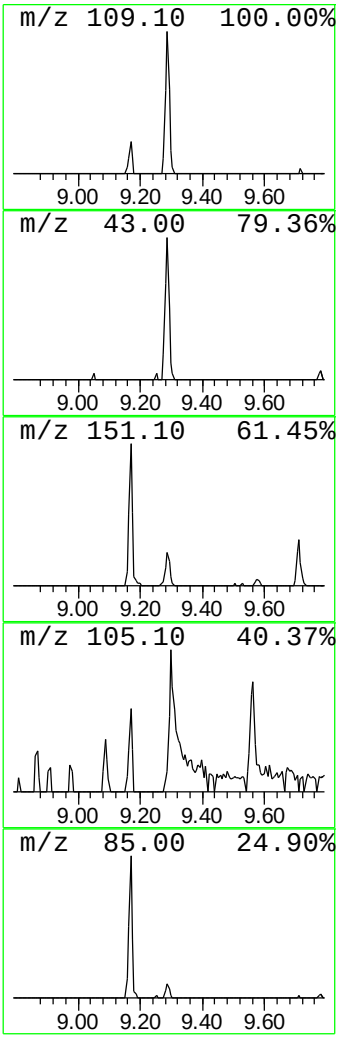
****

Peak Number 6 2,4,7,9-Tetramethyl-5-decyn... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.29	4.20 ng	46423	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,7,9-Tetramethyl-5-decyn-4,7-...	226	C14H26O2	000126-86-3	78
2	Metacetamol	151	C8H9NO2	000621-42-1	52
3	N-Chlorocarbonyl-N-methoxy-N-iso...	151	C5H10ClNO2	078190-96-2	50
4	m-Isopropoxyaniline	151	C9H13NO	041406-00-2	50
5	(-)-10-Camphorsulfonyl chloride	250	C10H15ClO3S	039262-22-1	42





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Acq On : 23 Sep 2019 18:33
Operator : HP/JU
Sample : K4980-06
Misc :
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Instrument : BNA_F
ClientSampleId : SAND-STOCKPILE-2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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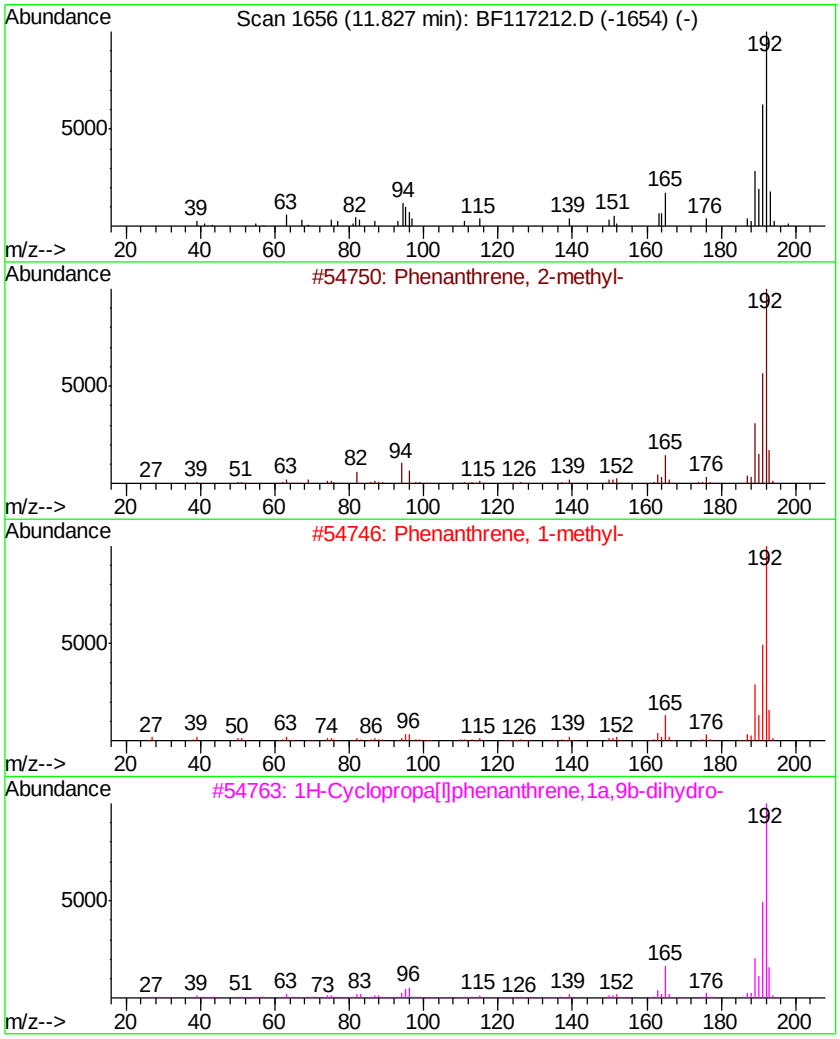
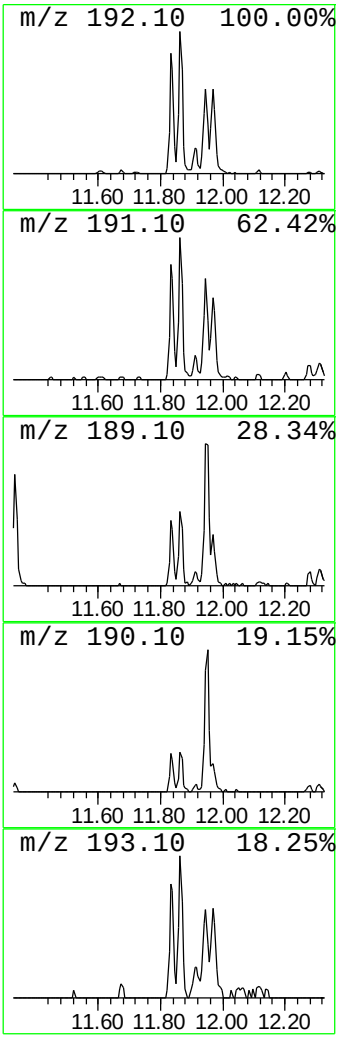
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	8.85 ng	94763	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94





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ClientSampleId : SAND-STOCKPILE-2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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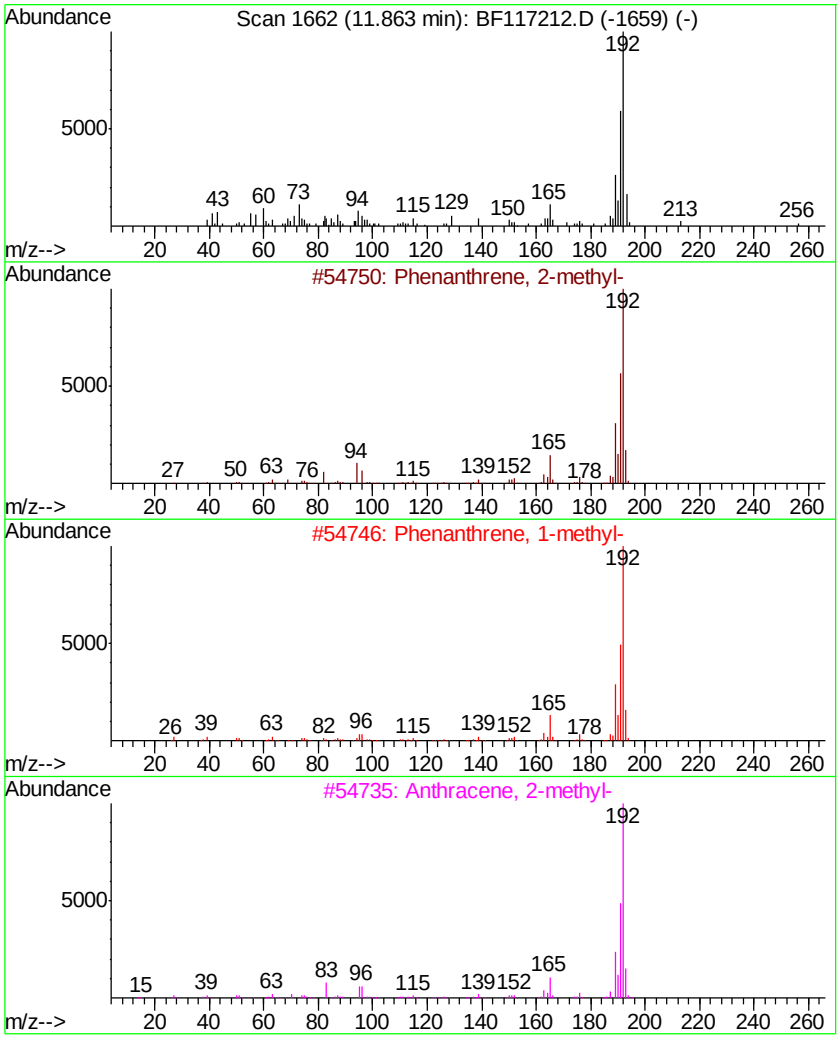
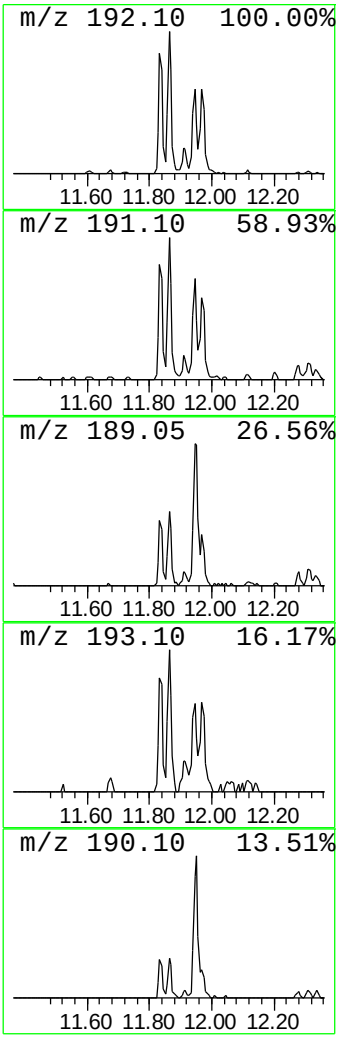
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	14.54 ng	155618	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90





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ClientSampleId : SAND-STOCKPILE-2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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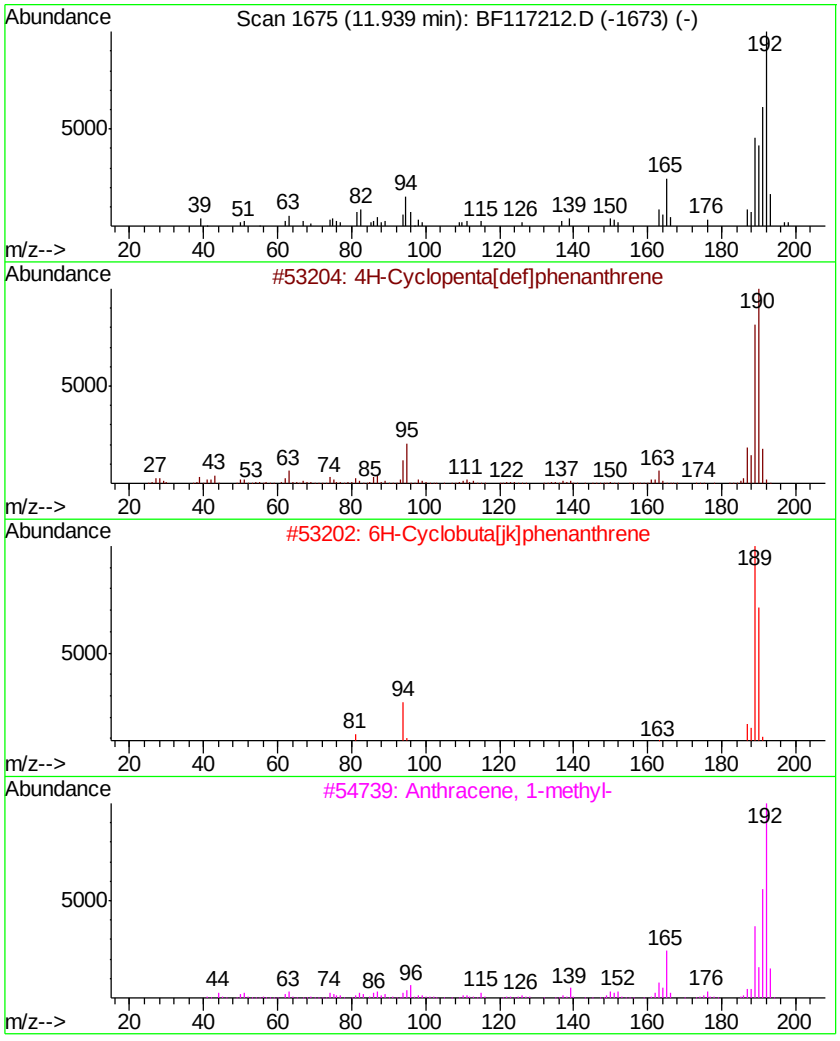
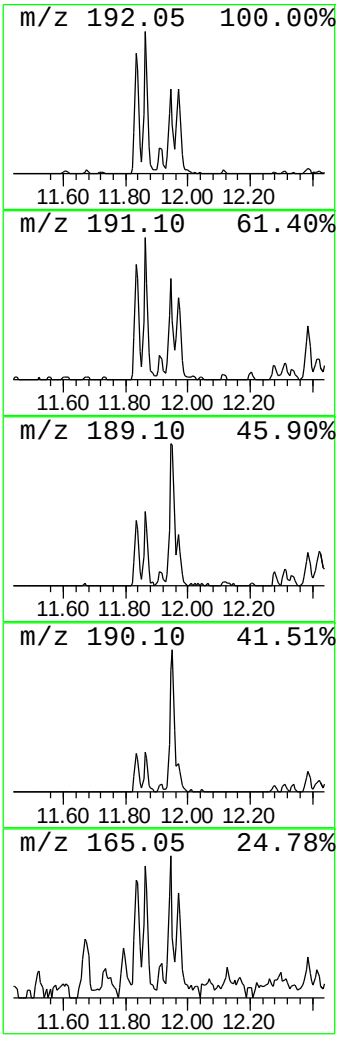
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	11.23 ng	120199	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	46
4	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	41
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	38





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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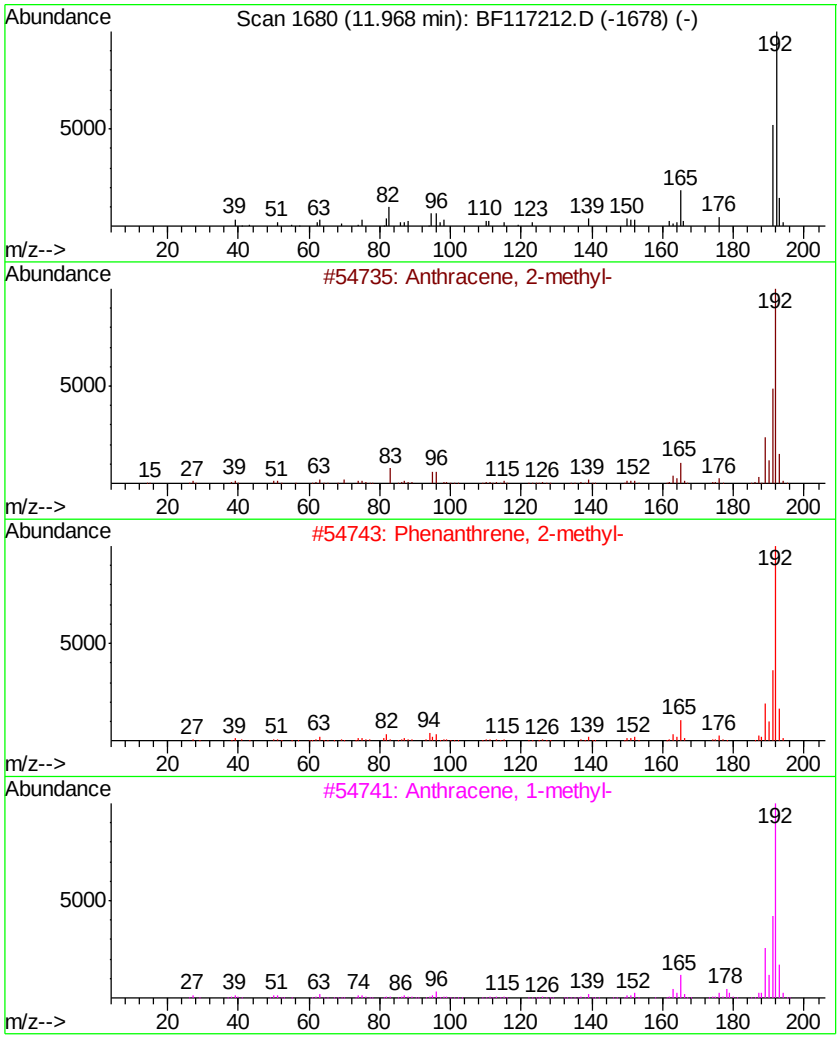
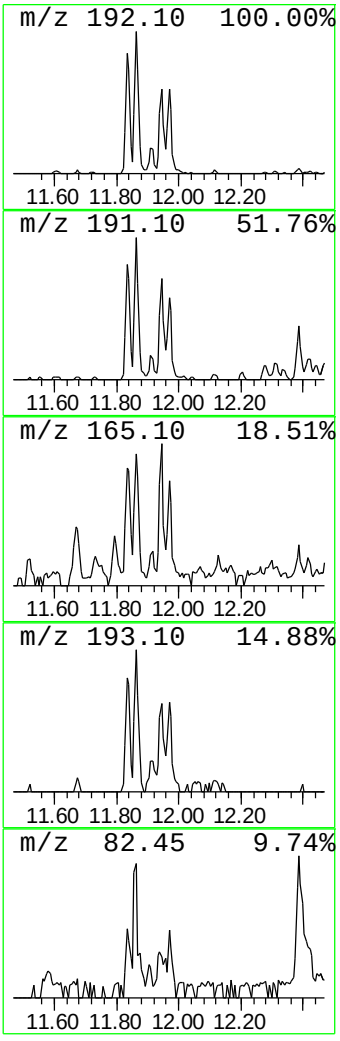
Peak Number 10 Anthracene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	6.50 ng	69528	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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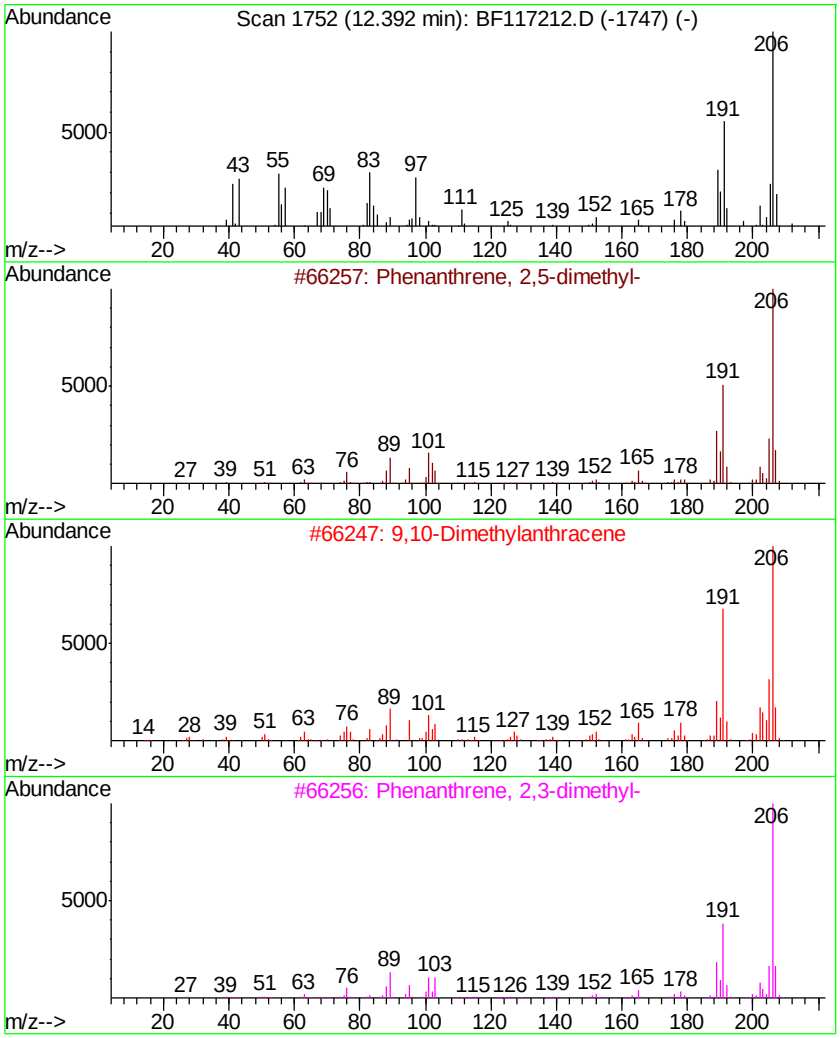
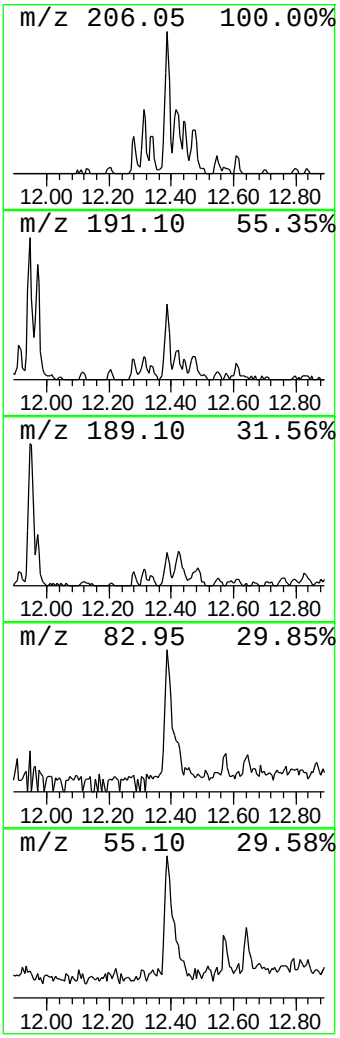
Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	11.10 ng	118841	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90





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ClientSampleId : SAND-STOCKPILE-2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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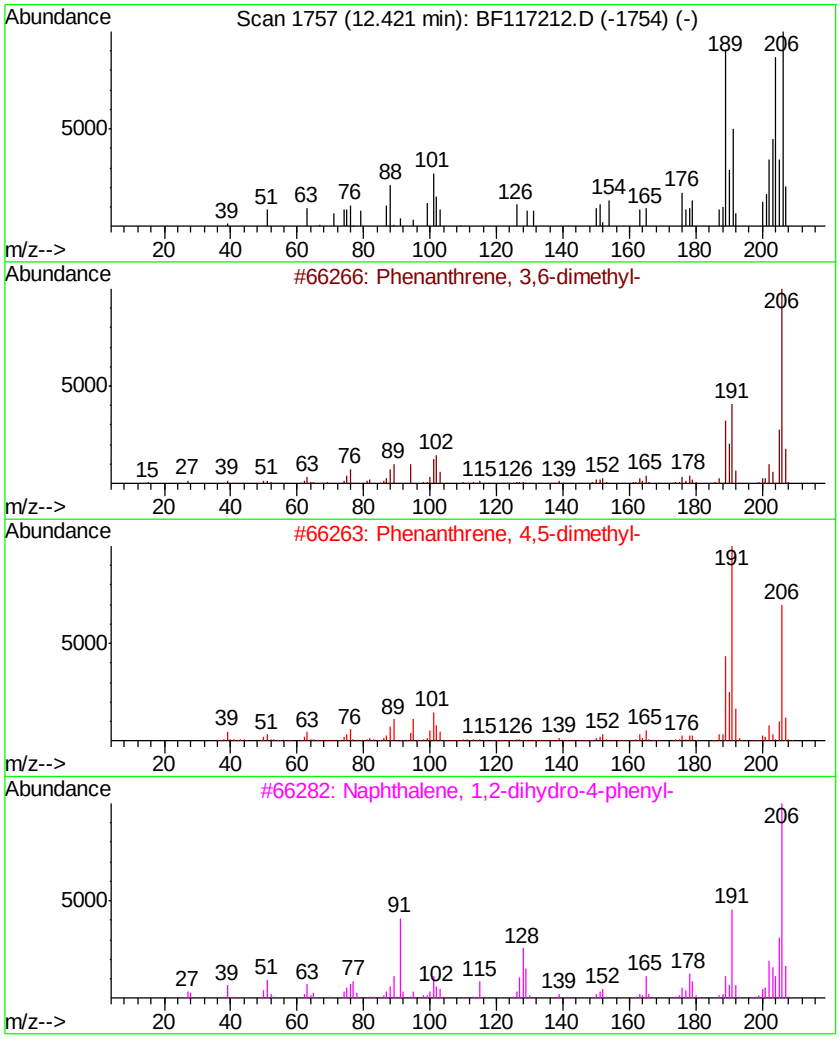
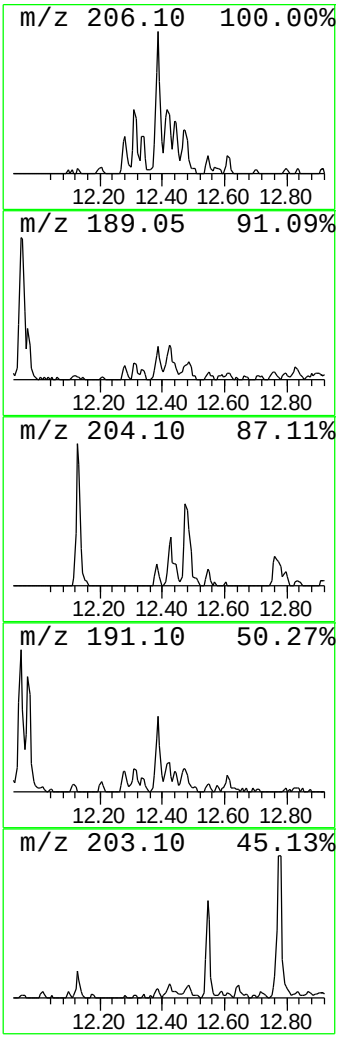
Peak Number 12 Phenanthrene, 3,6-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	5.35 ng	57296	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	50
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	46
3	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	41
4	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	38
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	38





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Misc :
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ClientSampleId : SAND-STOCKPILE-2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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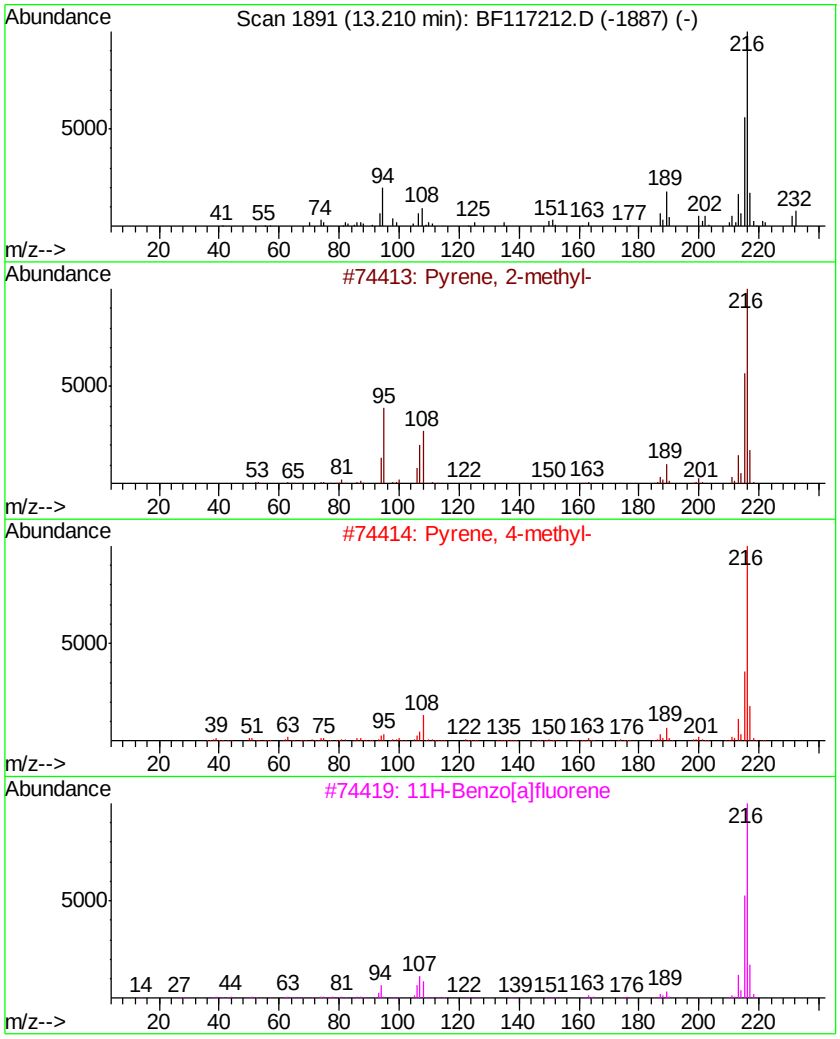
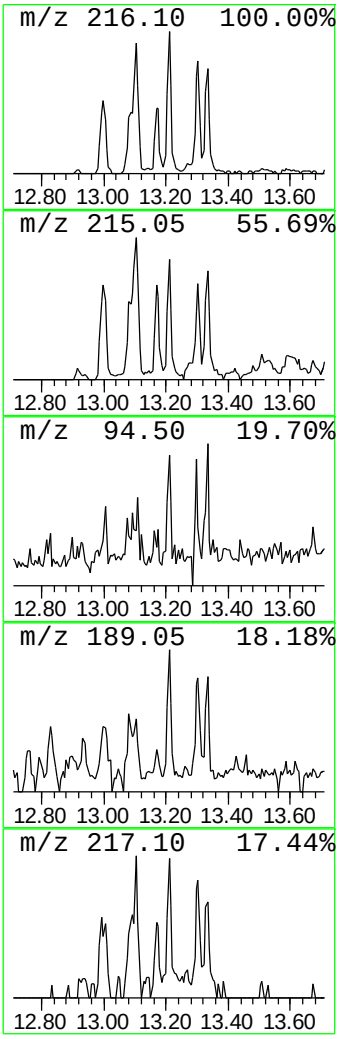
Peak Number 13 Pyrene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.21	4.25 ng	64838	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	87
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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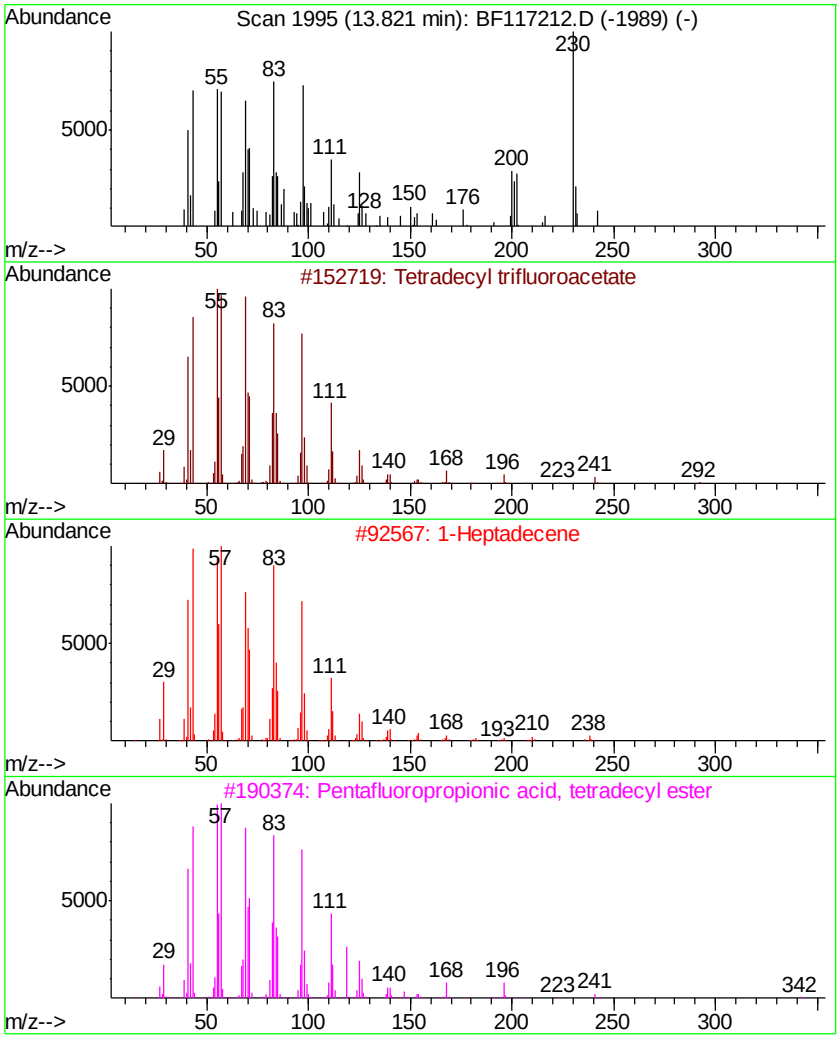
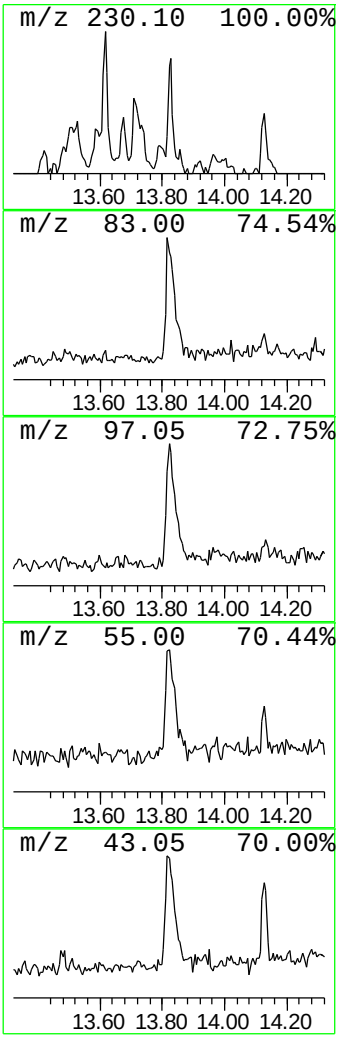
Peak Number 14 Tetradecyl trifluoroacetate Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.82	8.95 ng	136413	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecyl trifluoroacetate	310	C16H29F3O2	006222-02-2	50
2	1-Heptadecene	238	C17H34	006765-39-5	50
3	Pentafluoropropionic acid, tetra...	360	C17H29F5O2	006222-06-6	50
4	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	50
5	Trifluoroacetic acid, pentadecyl...	324	C17H31F3O2	959010-23-2	50





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TIC Integration Parameters: LSCINT.P

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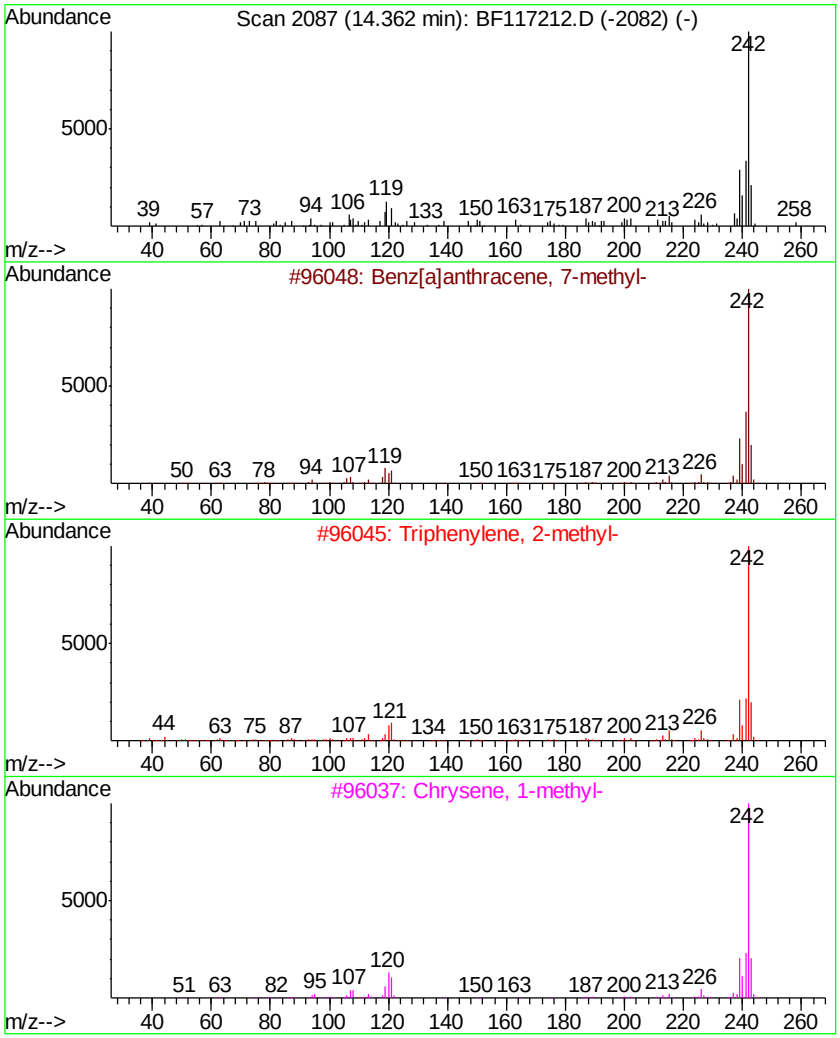
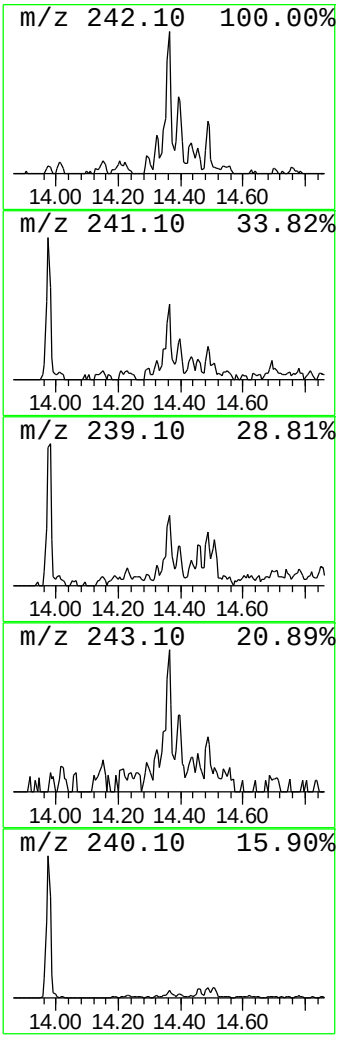
Peak Number 15 Triphenylene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.36	4.11 ng	62658	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	90
2	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	81
3	Chrysene, 1-methyl-	242	C19H14	003351-28-8	81
4	Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	68
5	Chrysene, 6-methyl-	242	C19H14	001705-85-7	64





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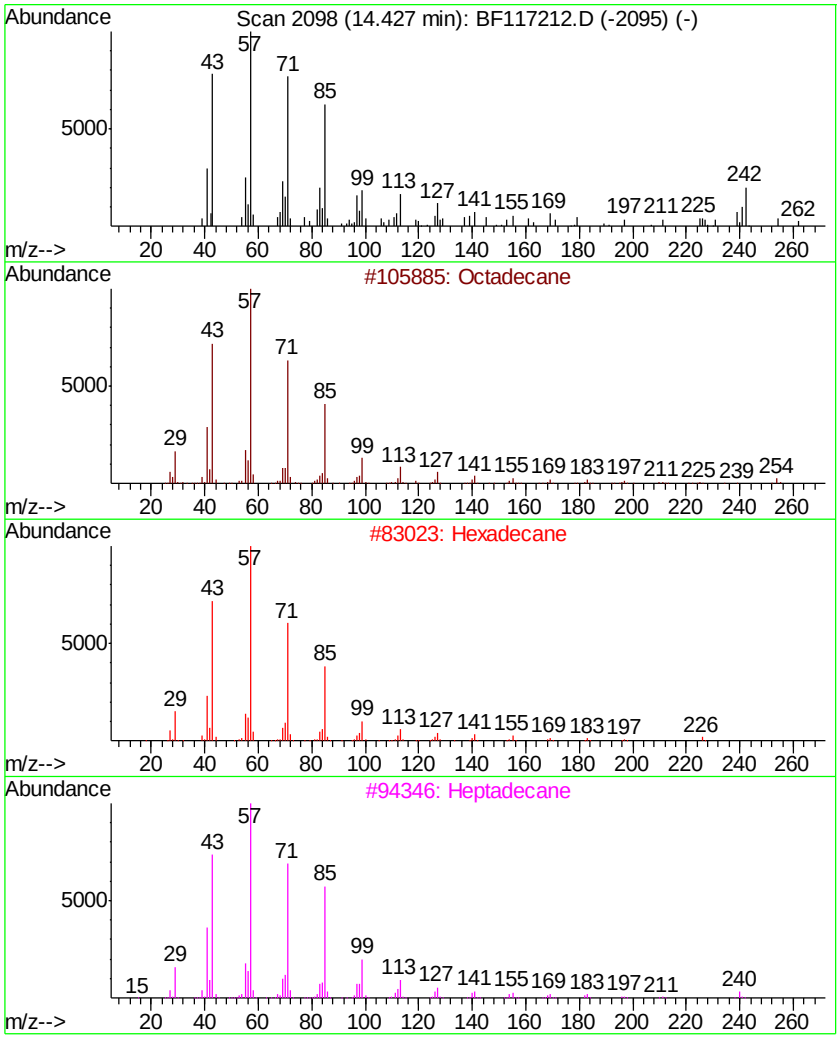
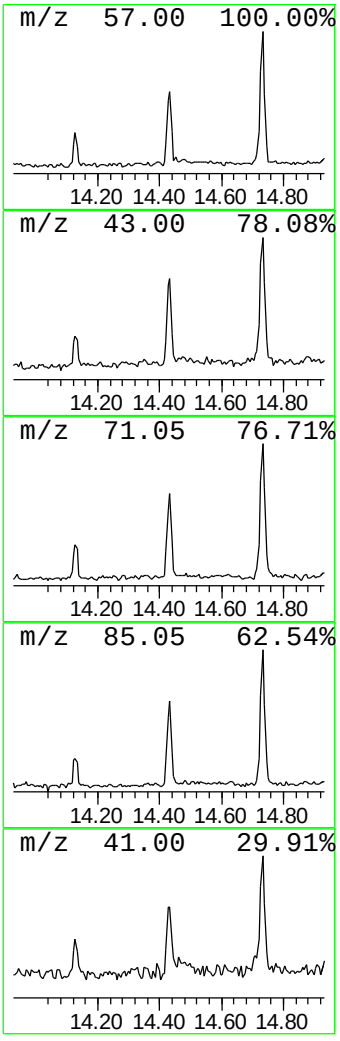
Peak Number 16 Octadecane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.43	5.13 ng	78285	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	95
2	Hexadecane	226	C16H34	000544-76-3	93
3	Heptadecane	240	C17H36	000629-78-7	86
4	Hentriacontane	437	C31H64	000630-04-6	70
5	Tetratetracontane	619	C44H90	007098-22-8	70





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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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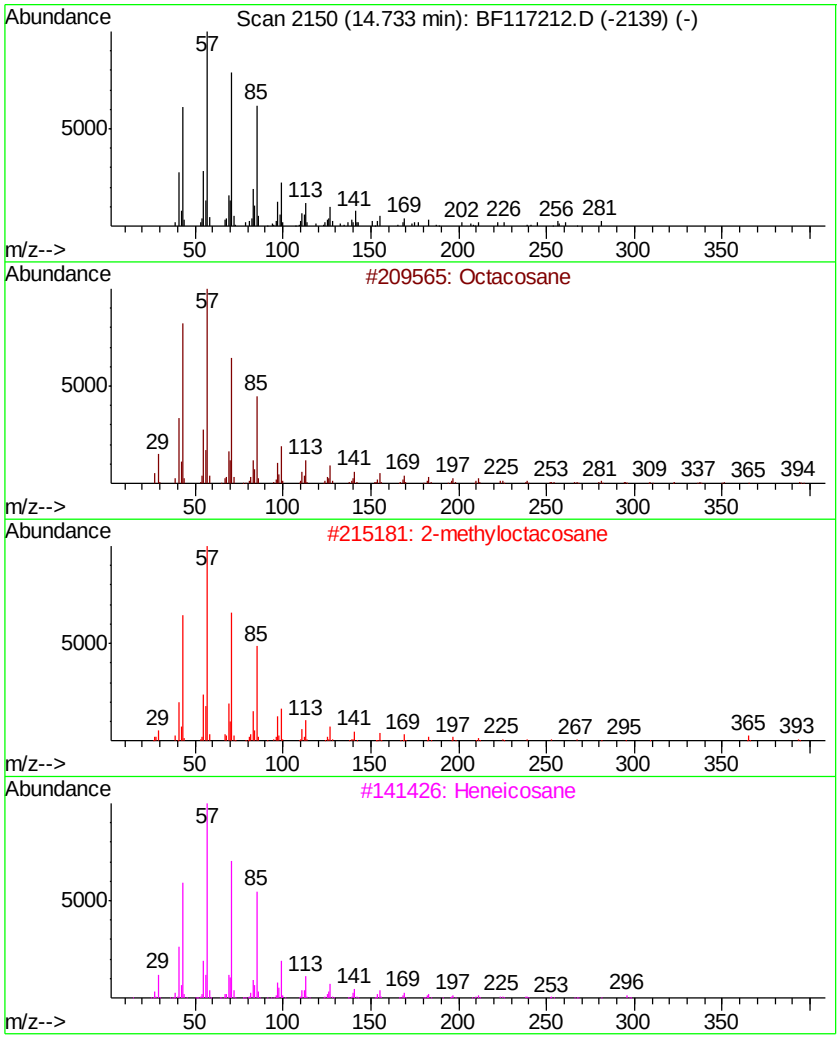
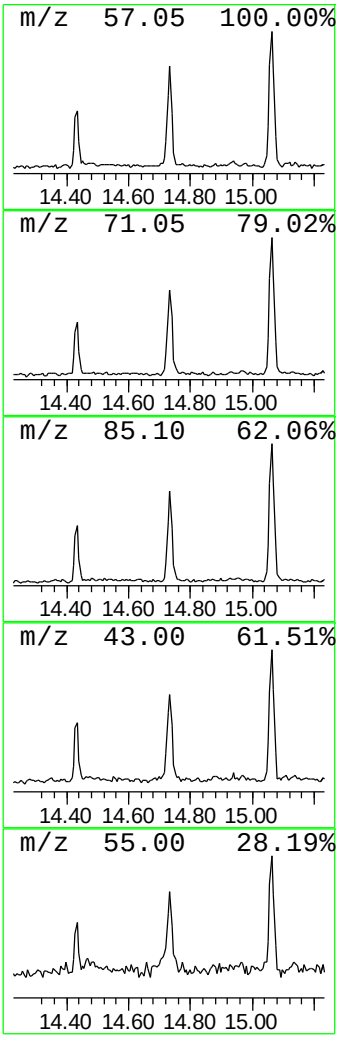
Peak Number 17 Octacosane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.73	11.10 ng	171713	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	91
2	2-methyloctacosane	408	C29H60	1000376-72-8	91
3	Heneicosane	296	C21H44	000629-94-7	91
4	Triacontane	422	C30H62	000638-68-6	91
5	Hexacosane	366	C26H54	000630-01-3	90





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Misc :
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ClientSampleId : SAND-STOCKPILE-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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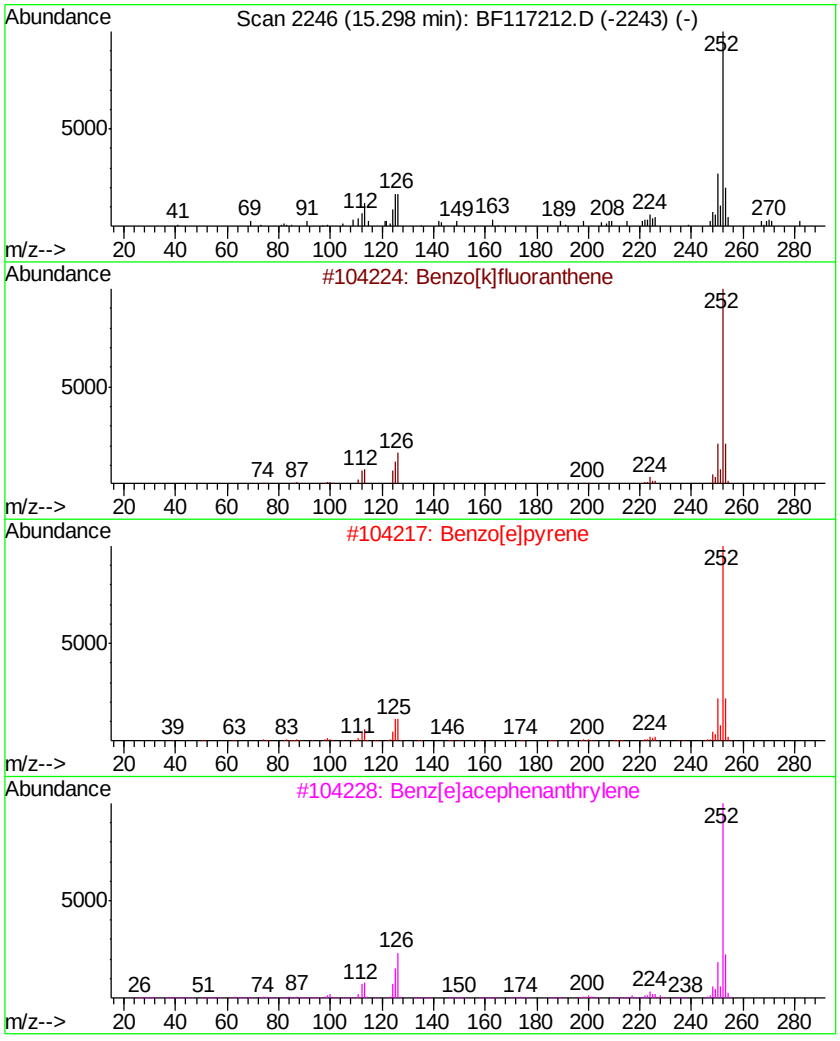
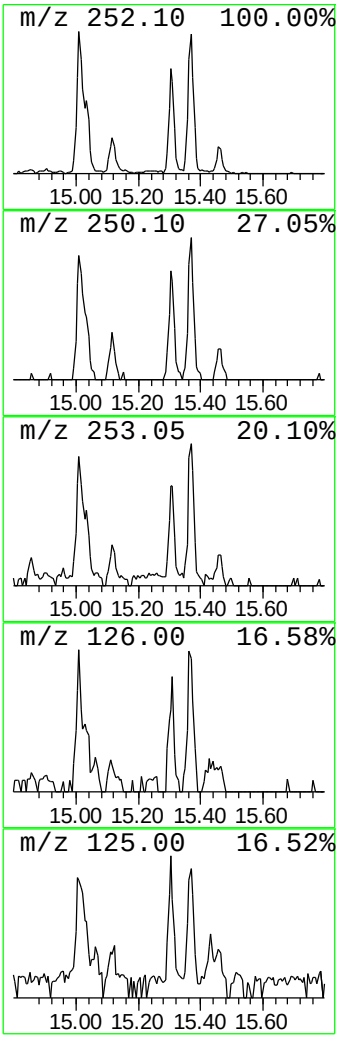
Peak Number 18 Benzo[e]pyrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.30	4.70 ng	72715	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
2	Benzo[e]pyrene	252	C20H12	000192-97-2	94
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	87
5	Perylene	252	C20H12	000198-55-0	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092319\
Data File : BF117212.D
Acq On : 23 Sep 2019 18:33
Operator : HP/JU
Sample : K4980-06
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SAND-STOCKPILE-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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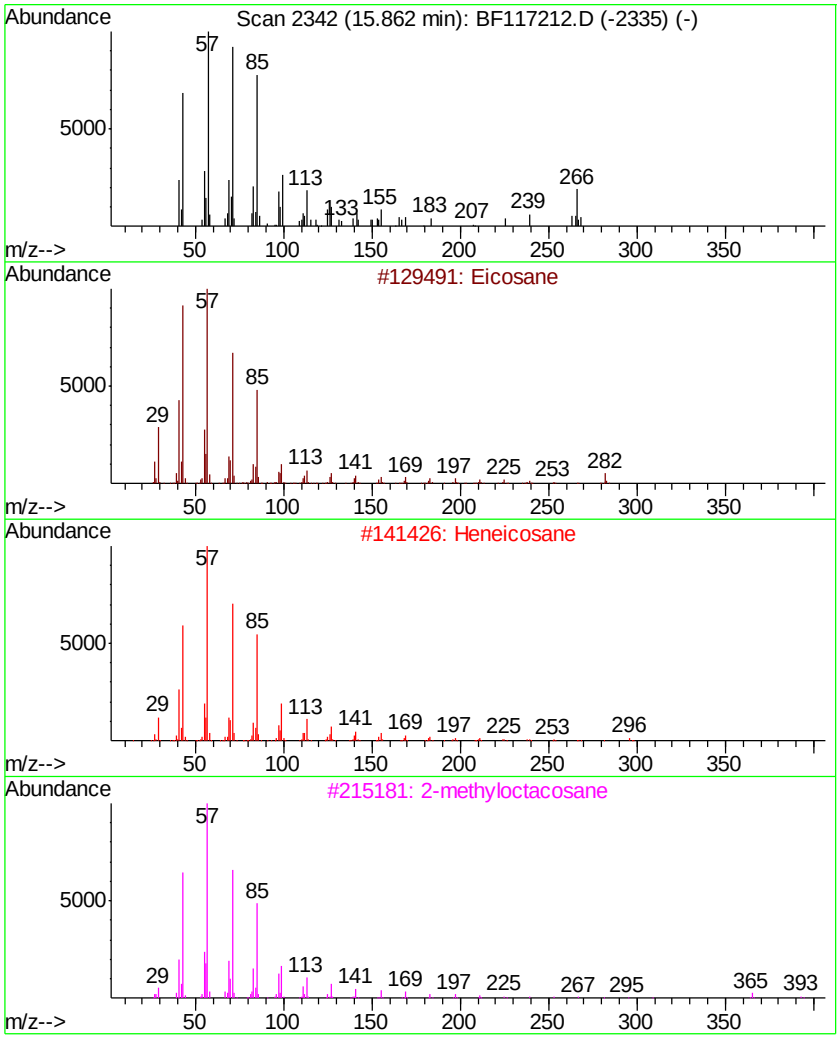
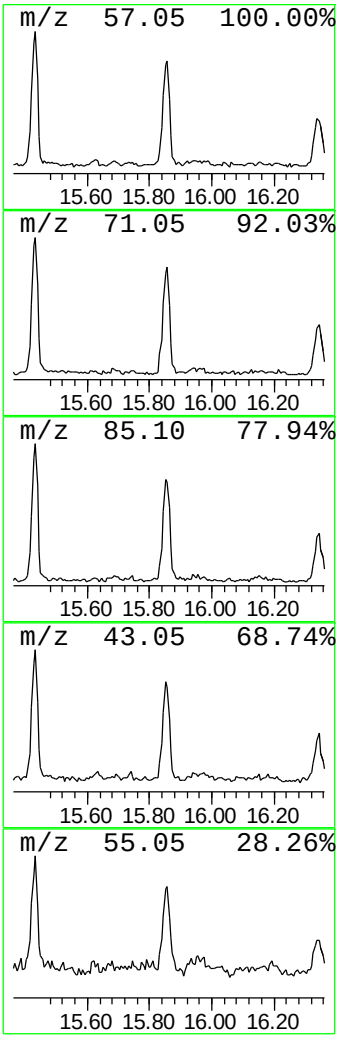
Peak Number 19 Eicosane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.86	9.90 ng	153211	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	87
2	Heneicosane	296	C21H44	000629-94-7	87
3	2-methyloctacosane	408	C29H60	1000376-72-8	87
4	Heptacosane	380	C27H56	000593-49-7	87
5	Triacontane	422	C30H62	000638-68-6	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092319\
Data File : BF117212.D
Acq On : 23 Sep 2019 18:33
Operator : HP/JU
Sample : K4980-06
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SAND-STOCKPILE-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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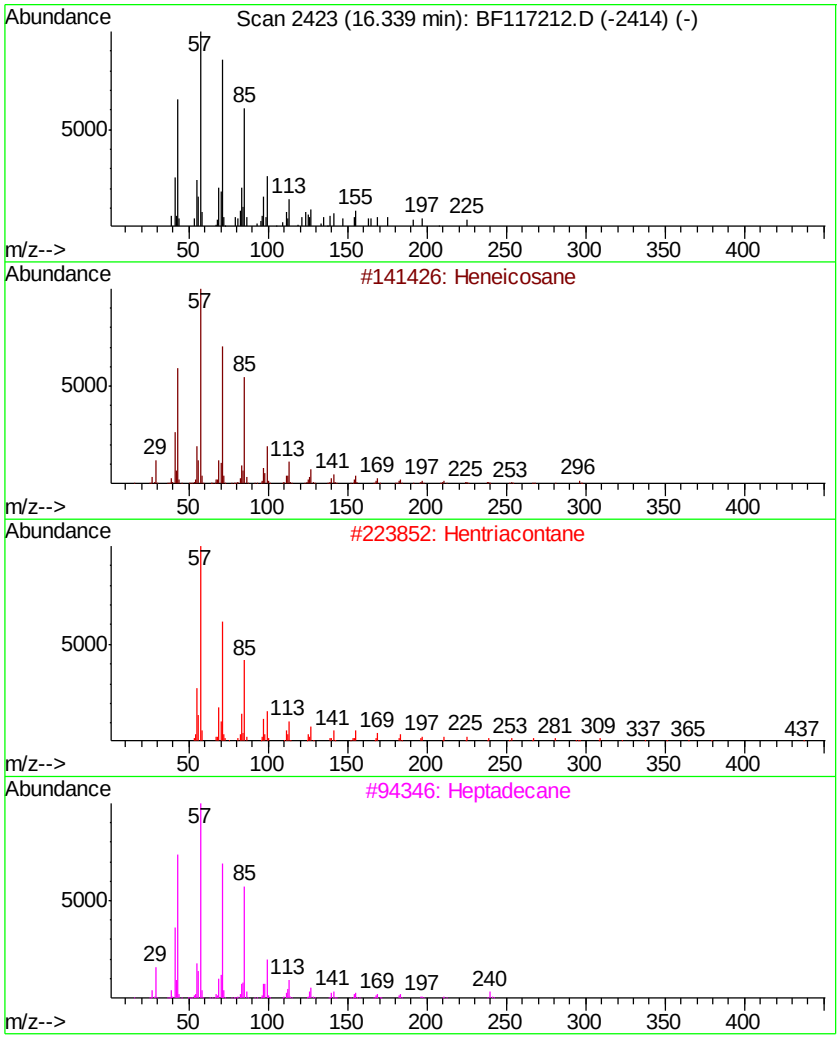
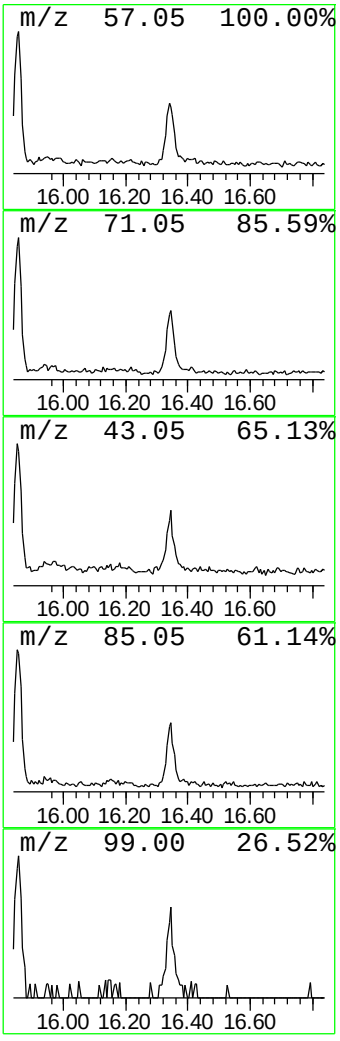
Peak Number 20 Heneicosane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.34	6.10 ng	94382	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	91
2	Hentriacontane	437	C31H64	000630-04-6	90
3	Heptadecane	240	C17H36	000629-78-7	87
4	Heptacosane	380	C27H56	000593-49-7	87
5	Hexacosane	366	C26H54	000630-01-3	87





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF092319\
Data File : BF117212.D
Acq On : 23 Sep 2019 18:33
Operator : HP/JU
Sample : K4980-06
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SAND-STOCKPILE-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown6.59	6.59	89.2	ng	643147	1	6.82	144219	20.0
Benzene, (1-nitro...	7.67	4.3	ng	40023	2	8.09	185495	20.0
Benzene, 1-methyl...	8.31	4.3	ng	39943	2	8.09	185495	20.0
Benzene, 1-methyl...	8.37	4.2	ng	38834	2	8.09	185495	20.0
2,4,7,9-Tetrameth...	9.29	4.2	ng	46423	3	9.85	220971	20.0
Phenanthrene, 2-m...	11.83	8.8	ng	94763	4	11.33	214097	20.0
Phenanthrene, 1-m...	11.86	14.5	ng	155618	4	11.33	214097	20.0
4H-Cyclopenta[def...	11.94	11.2	ng	120199	4	11.33	214097	20.0
Anthracene, 2-met...	11.97	6.5	ng	69528	4	11.33	214097	20.0
Phenanthrene, 2,5...	12.39	11.1	ng	118841	4	11.33	214097	20.0
Phenanthrene, 3,6...	12.42	5.3	ng	57296	4	11.33	214097	20.0
Pyrene, 2-methyl-	13.21	4.3	ng	64838	5	13.97	304951	20.0
Tetradecyl triflu...	13.82	8.9	ng	136413	5	13.97	304951	20.0
Triphenylene, 2-m...	14.36	4.1	ng	62658	5	13.97	304951	20.0
Octadecane	14.43	5.1	ng	78285	5	13.97	304951	20.0
Octacosane	14.73	11.1	ng	171713	6	15.43	309392	20.0
Benzo[e]pyrene	15.30	4.7	ng	72715	6	15.43	309392	20.0
Eicosane	15.86	9.9	ng	153211	6	15.43	309392	20.0
Heneicosane	16.34	6.1	ng	94382	6	15.43	309392	20.0