LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080619\
Data File : BF116012.D
Acq On : 6 Aug 2019 14:49
Operator : HP/JU
Sample : K4135-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-B1-B4-COMP-(30)

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-BF073019.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	2.116	3	5	26	rVB	848806	1008187	25.62%	1.580%
2	3.922	307	312	318	rBV	69904	99079	2.52%	0.155%
3	5.469	571	575	594	rBV	3106703	3187733	81.01%	4.997%
4	6.481	742	747	766	rBV	3126709	3401634	86.44%	5.332%
5	6.616	766	770	773	rBV	3583651	3383334	85.98%	5.304%
6	6.840	805	808	818	rVB	869089	779919	19.82%	1.223%
7	6.998	831	835	851	rBV	3015773	2735991	69.53%	4.289%
8	7.404	899	904	907	rBV	2211512	2123858	53.97%	3.329%
9	8.122	1022	1026	1054	rVB	1053532	991613	25.20%	1.554%
10	9.198	1204	1209	1212	rBV	4117078	3781089	96.09%	5.927%
11	9.586	1272	1275	1281	rVB	290287	258769	6.58%	0.406%
12	9.875	1320	1324	1327	rBV	1382162	1130218	28.72%	1.772%
13	9.904	1327	1329	1336	rVB	250674	232633	5.91%	0.365%
14	10.081	1354	1359	1363	rBV	94741	96195	2.44%	0.151%
15	10.422	1413	1417	1423	rBV	196696	196581	5.00%	0.308%
16	10.581	1441	1444	1448	rVB	64014	70139	1.78%	0.110%
17	10.663	1454	1458	1473	rBV	2301047	2435899	61.90%	3.818%
18	10.969	1500	1510	1513	rBV4	80924	144104	3.66%	0.226%
19	11.104	1528	1533	1535	rBV4	44213	70127	1.78%	0.110%
20	11.169	1540	1544	1547	rBV2	229400	227054	5.77%	0.356%
21	11.222	1549	1553	1556	rBV3	98440	126204	3.21%	0.198%
22	11.257	1556	1559	1564	rBV	357743	378837	9.63%	0.594%
23	11.316	1564	1569	1570	rBV2	92343	123470	3.14%	0.194%
24	11.339	1570	1573	1574	rBV2	123399	106086	2.70%	0.166%
25	11.363	1574	1577	1579	rBV	1212111	1142228	29.03%	1.791%
26	11.386	1579	1581	1583	rVV	2405323	1949064	49.53%	3.055%
27	11.410	1583	1585	1587	rVV2	481275	484477	12.31%	0.759%
28	11.439	1587	1590	1595	rVB3	832925	955467	24.28%	1.498%
29	11.486	1595	1598	1601	rBV2	539106	546278	13.88%	0.856%
30	11.516	1601	1603	1605	rBV	403741	294834	7.49%	0.462%
31	11.545	1605	1608	1612	rVB2	385890	487737	12.39%	0.765%
32	11.586	1612	1615	1618	rBV2	699866	854733	21.72%	1.340%
33	11.669	1625	1629	1633	rBV2	478948	970614	24.67%	1.521%
34	11.716	1634	1637	1640	rVV2	411496	494451	12.57%	0.775%

LSC Area Percent Report

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Sample : K4135-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-B1-B4-COMP-(30)

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

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Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.757	1640	1644	1646	rVV2	571690	715704	18.19%	1.122%
36	11.780	1646	1648	1650	rVB2	351348	299179	7.60%	0.469%
37	11.804	1650	1652	1654	rBV	280790	226257	5.75%	0.355%
38	11.839	1654	1658	1661	rBV	384400	566425	14.39%	0.888%
39	11.892	1665	1667	1671	rVB3	467823	526022	13.37%	0.825%
40	11.939	1671	1675	1678	rBV5	180200	241700	6.14%	0.379%
41	11.975	1678	1681	1684	rBV	418498	448430	11.40%	0.703%
42	12.051	1692	1694	1696	rBV	171501	143093	3.64%	0.224%
43	12.104	1700	1703	1704	rVV3	114373	109171	2.77%	0.171%
44	12.157	1710	1712	1715	rBV2	177994	175450	4.46%	0.275%
45	12.192	1715	1718	1721	rBV3	188618	221925	5.64%	0.348%
46	12.280	1730	1733	1736	rVV3	152536	203812	5.18%	0.319%
47	12.310	1736	1738	1740	rVB2	139086	115469	2.93%	0.181%
48	12.363	1745	1747	1749	rVV2	131288	134685	3.42%	0.211%
49	12.416	1753	1756	1759	rBV4	189757	270003	6.86%	0.423%
50	12.451	1759	1762	1767	rVB2	311514	337325	8.57%	0.529%
51	12.580	1780	1784	1787	rBV	2860477	2616143	66.48%	4.101%
52	12.639	1792	1794	1797	rBV3	88702	89063	2.26%	0.140%
53	12.675	1797	1800	1805	rVB5	121070	180750	4.59%	0.283%
54	12.810	1817	1823	1827	rBV2	2131795	2652653	67.41%	4.158%
55	12.851	1828	1830	1834	rVB2	149506	184208	4.68%	0.289%
56	12.945	1839	1846	1849	rBV	3771266	3935101	100.00%	6.168%
57	12.969	1849	1850	1855	rVB2	137374	91312	2.32%	0.143%
58	13.022	1855	1859	1863	rBV2	116642	205110	5.21%	0.322%
59	13.110	1871	1874	1875	rBV3	108305	111830	2.84%	0.175%
60	13.133	1875	1878	1882	rVB	402408	370778	9.42%	0.581%
61	13.198	1886	1889	1892	rVB	276313	234773	5.97%	0.368%
62	13.239	1892	1896	1898	rBV2	196548	250510	6.37%	0.393%
63	13.292	1903	1905	1908	rVB2	82808	72690	1.85%	0.114%
64	13.327	1909	1911	1914	rBV	90080	78428	1.99%	0.123%
65	13.357	1914	1916	1920	rBV3	108356	131374	3.34%	0.206%
66	13.645	1963	1965	1969	rBV2	160220	139578	3.55%	0.219%
67	13.751	1981	1983	1985	rBV	155043	121793	3.10%	0.191%
68	13.774	1985	1987	1990	rVV	180772	172320	4.38%	0.270%
69	13.804	1990	1992	1997	rVV2	169209	229983	5.84%	0.361%
70	13.857	1998	2001	2008	rVB2	268733	468348	11.90%	0.734%
71	13.998	2018	2025	2028	rBV2	1488683	2361172	60.00%	3.701%

LSC Area Percent Report

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Sample : K4135-16
Misc :
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Instrument : BNA_F
ClientSampleId : 1S-B1-B4-COMP-(30)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
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72	14.027	2028	2030	2039	rVB	1112048	1104042	28.06%	1.731%
73	14.110	2041	2044	2049	rVB	258825	267618	6.80%	0.420%
74	14.351	2083	2085	2087	rBV2	71417	65483	1.66%	0.103%
75	14.386	2089	2091	2094	rVV	171565	172359	4.38%	0.270%
76	14.421	2095	2097	2100	rVV	82442	63494	1.61%	0.100%
77	14.463	2101	2104	2106	rVV2	87713	99036	2.52%	0.155%
78	14.486	2106	2108	2110	rVV	73062	59712	1.52%	0.094%
79	14.516	2110	2113	2114	rVV	107029	95595	2.43%	0.150%
80	14.533	2114	2116	2119	rVB	124202	104428	2.65%	0.164%
81	14.704	2142	2145	2152	rBV3	79672	96792	2.46%	0.152%
82	14.763	2152	2155	2158	rVB2	80642	76279	1.94%	0.120%
83	14.886	2172	2176	2179	rBV2	74744	100671	2.56%	0.158%
84	15.039	2198	2202	2205	rBV	827900	1233010	31.33%	1.933%
85	15.092	2209	2211	2217	rVB2	176787	218930	5.56%	0.343%
86	15.145	2217	2220	2224	rBV	137657	150524	3.83%	0.236%
87	15.233	2232	2235	2237	rBV2	59081	76692	1.95%	0.120%
88	15.339	2249	2253	2259	rVB	453617	581834	14.79%	0.912%
89	15.404	2259	2264	2269	rVV	748609	892504	22.68%	1.399%
90	15.463	2269	2274	2278	rVV	887569	1214056	30.85%	1.903%
91	15.492	2278	2279	2287	rVB2	221191	249536	6.34%	0.391%
92	15.898	2343	2348	2353	rBV2	152402	246682	6.27%	0.387%
93	16.021	2366	2369	2374	rVB2	55668	72398	1.84%	0.113%
94	16.392	2427	2432	2442	rVB3	75219	162735	4.14%	0.255%
95	16.733	2485	2490	2493	rBV2	39615	70831	1.80%	0.111%
96	16.927	2517	2523	2529	rBV	335840	641400	16.30%	1.005%
97	17.098	2547	2552	2557	rBV	73554	138926	3.53%	0.218%
98	17.157	2558	2562	2568	rVB2	57806	109638	2.79%	0.172%
99	17.368	2592	2598	2612	rVB	228466	506538	12.87%	0.794%
100	17.615	2634	2640	2655	rVB3	67519	220637	5.61%	0.346%

Sum of corrected areas: 63793583

LSC Report - Integrated Chromatogram

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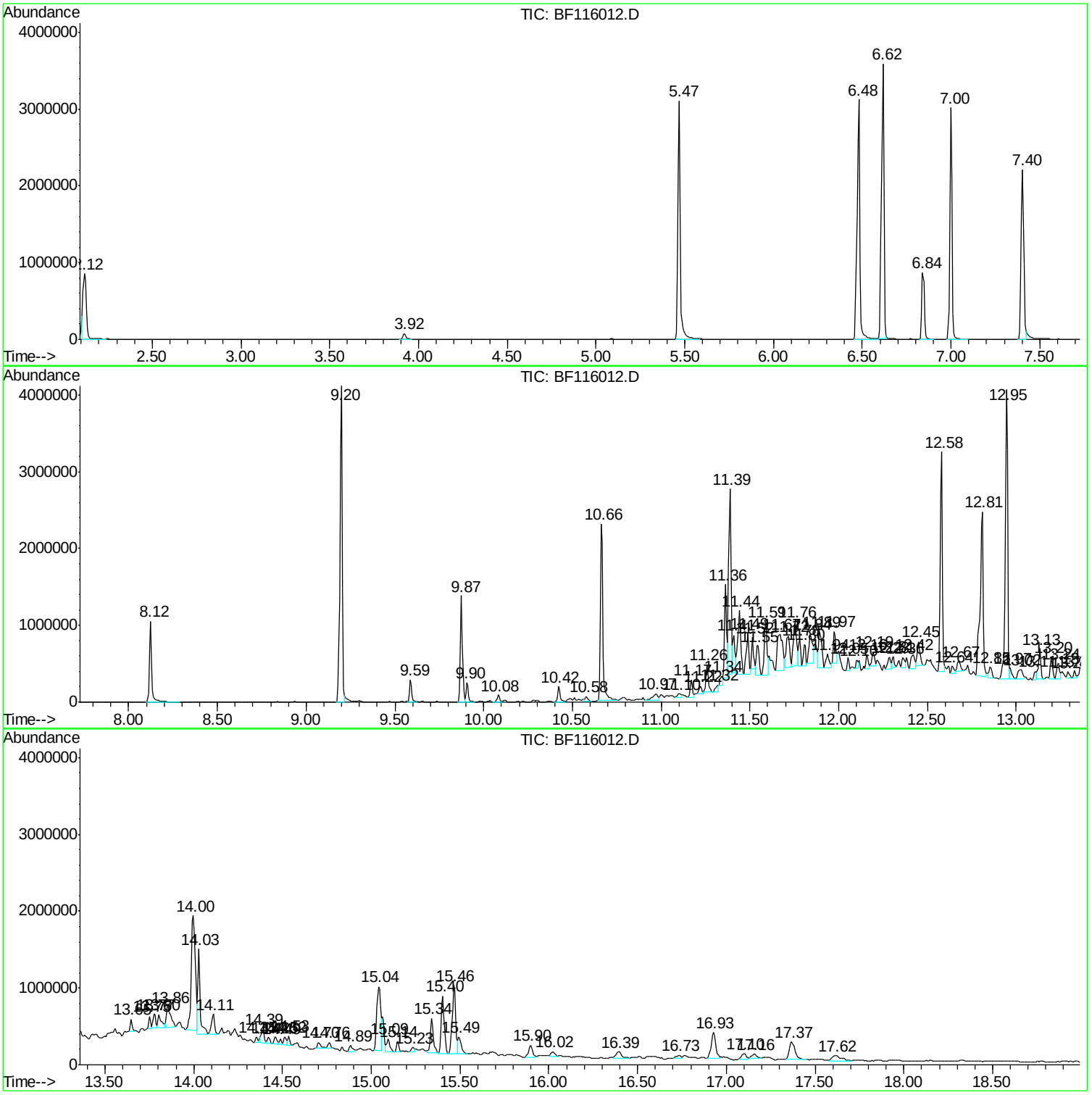
Sample : K4135-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-B1-B4-COMP-(30)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

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Data File : BF116012.D
Acq On : 6 Aug 2019 14:49
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
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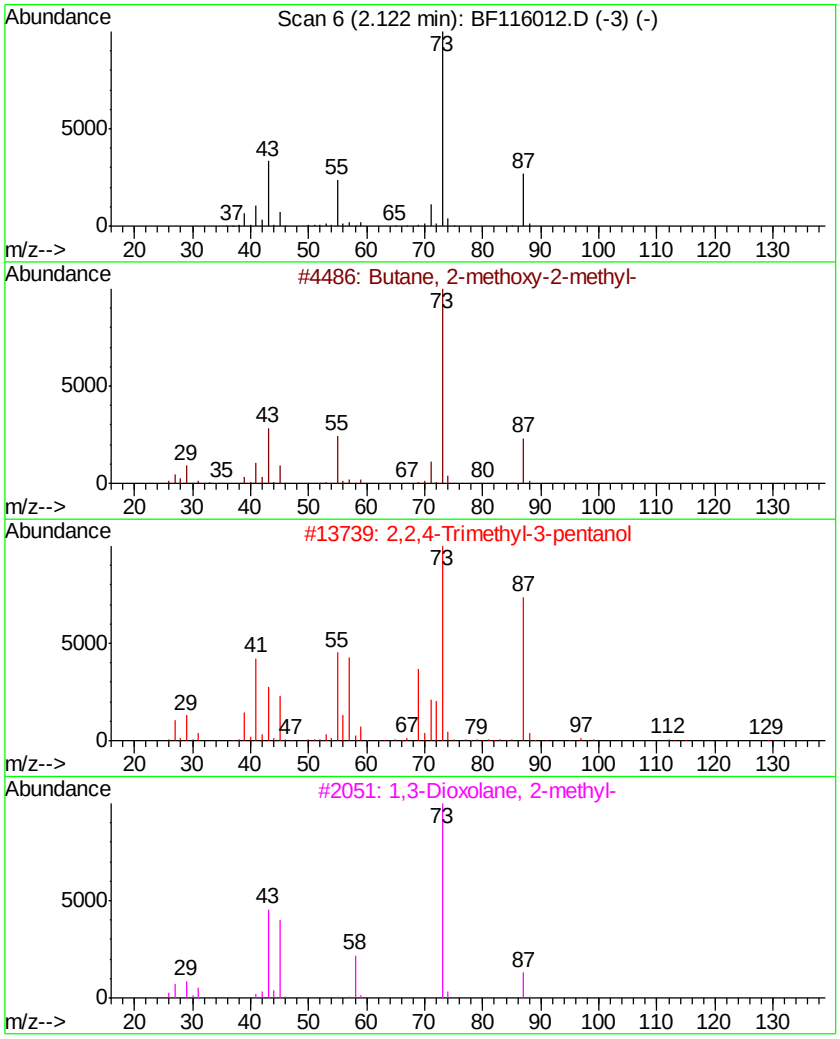
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

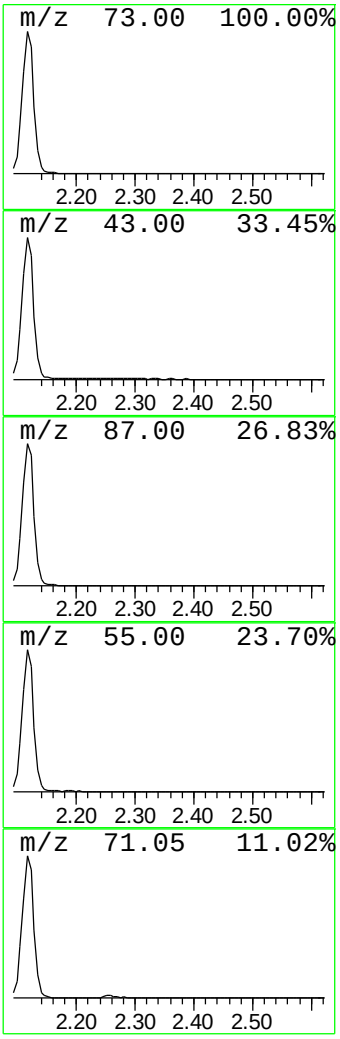
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.12	25.85 ng	1008190	1,4-Dichlorobenzene-d4	6.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	9





Library Search Compound Report

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Instrument : BNA_F
ClientSampleId : 1S-B1-B4-COMP-(30)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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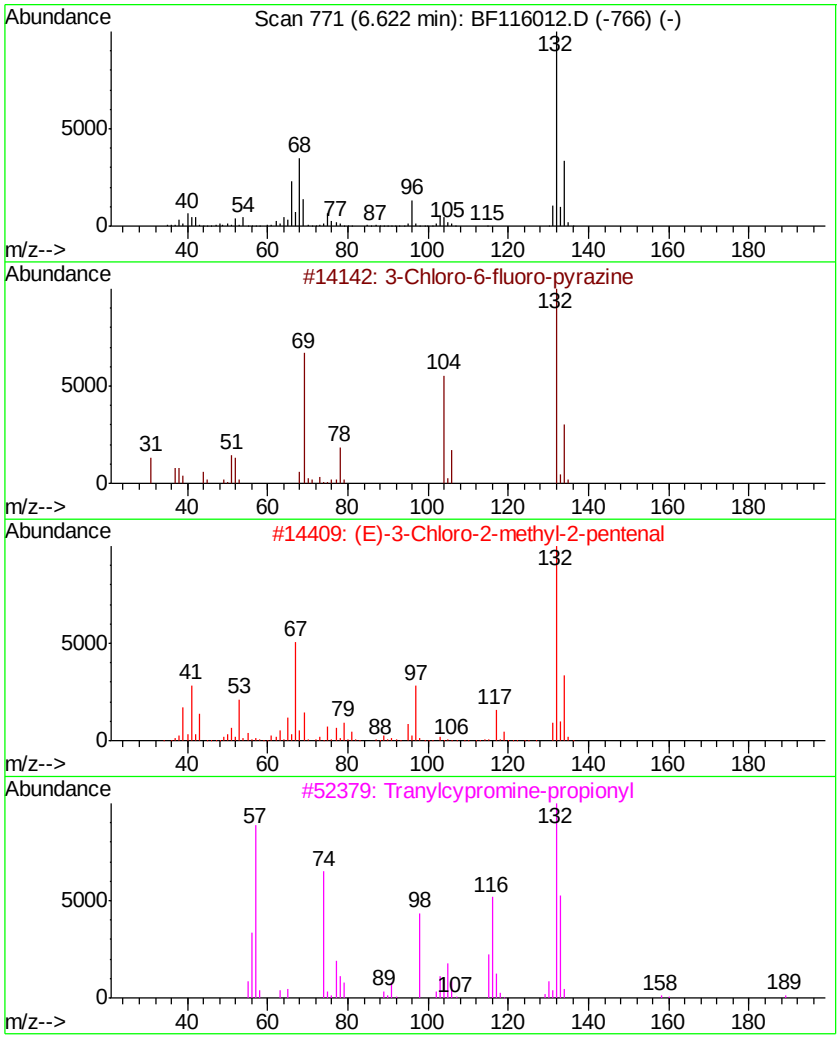
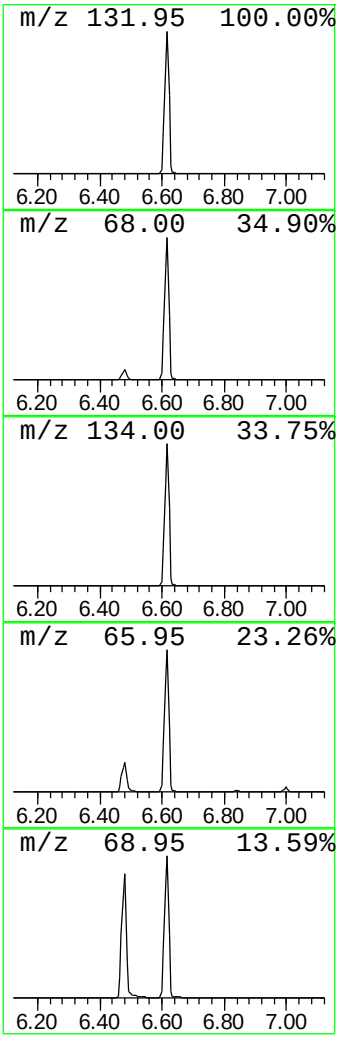
****

Peak Number 2 unknown6.62 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	86.76 ng	3383330	1,4-Dichlorobenzene-d4	6.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9





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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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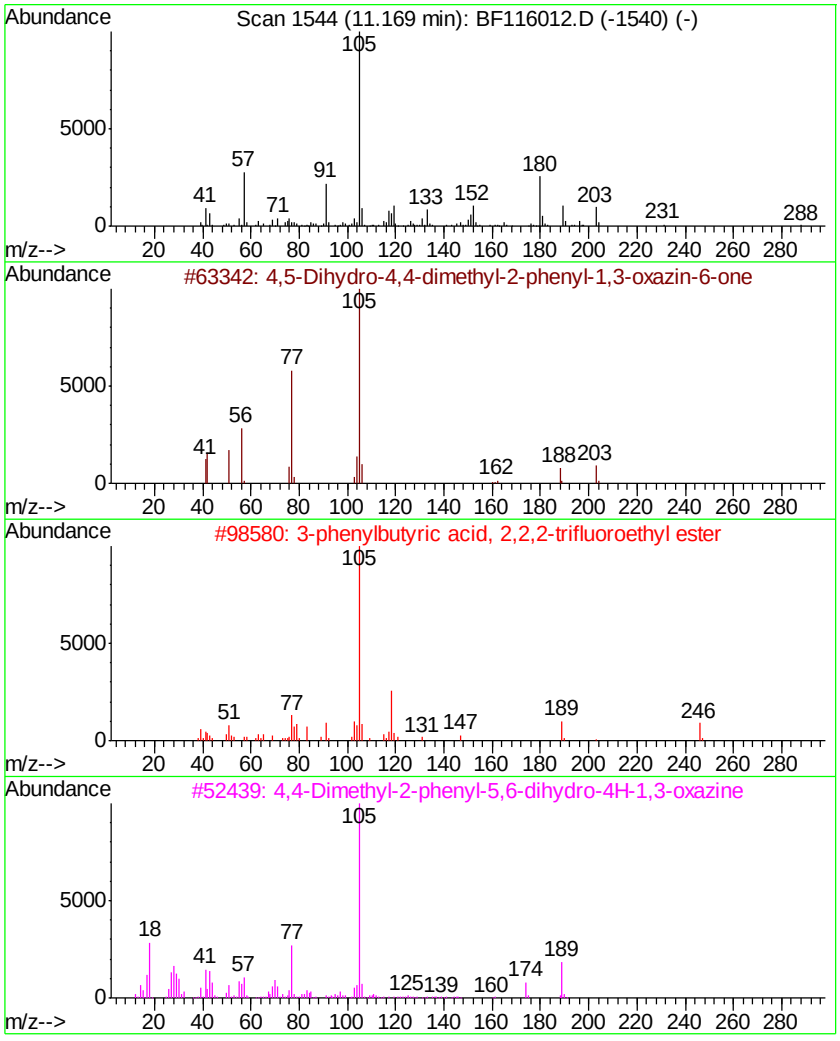
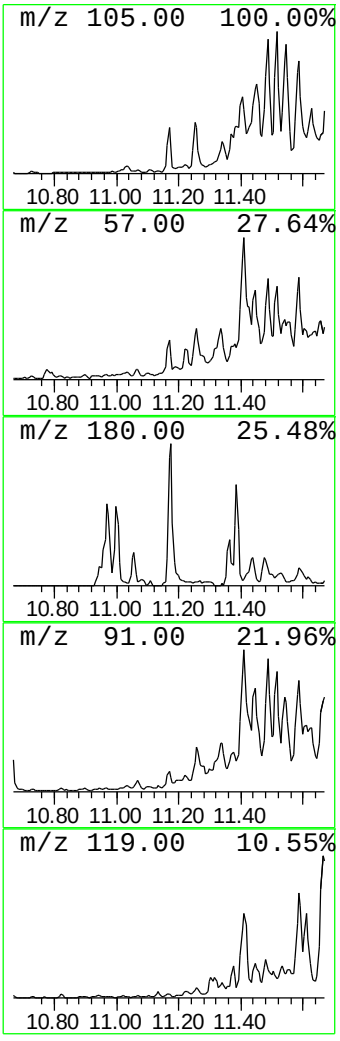
Peak Number 4 unknown11.17 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.17	3.98 ng	227054	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,5-Dihydro-4,4-dimethyl-2-phenyl...	203	C12H13NO2	029637-55-6	27
2	3-phenylbutyric acid, 2,2,2-trif...	246	C12H13F3O2	1000376-55-4	16
3	4,4-Dimethyl-2-phenyl-5,6-dihydr...	189	C12H15NO	037139-43-8	16
4	4,4,6-Trimethyl-2-phenyl-5,6-dih...	203	C13H17NO	026939-21-9	16
5	Vinyl benzoate	148	C9H8O2	000769-78-8	14





Library Search Compound Report

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Instrument : BNA_F
ClientSampleId : 1S-B1-B4-COMP-(30)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

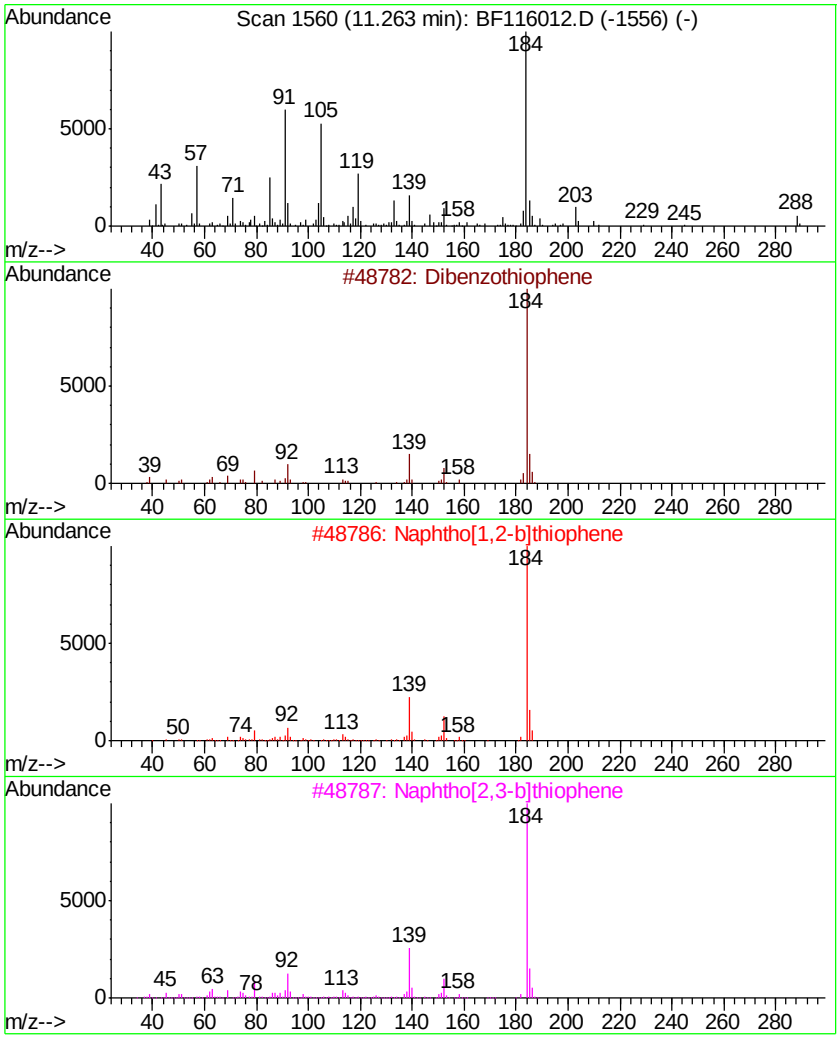
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

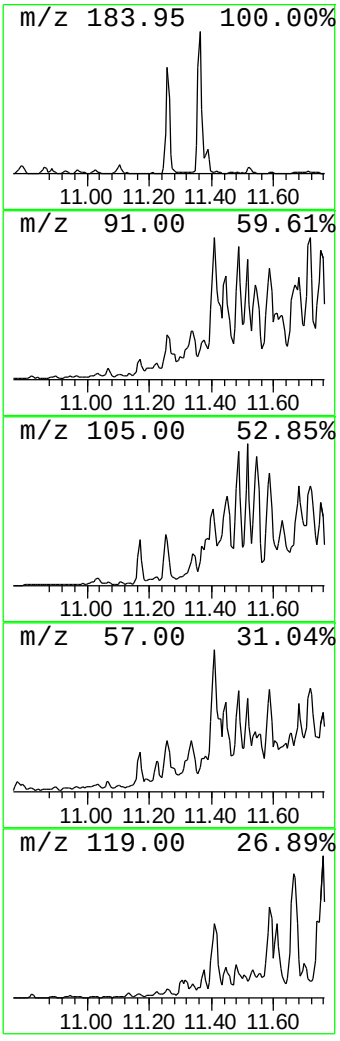
****

Peak Number 5 Dibenzothiophene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.26	6.63 ng	378837	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	90
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	90
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	89
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080619\
Data File : BF116012.D
Acq On : 6 Aug 2019 14:49
Operator : HP/JU
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Misc :
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Instrument : BNA_F
ClientSampleId : 1S-B1-B4-COMP-(30)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

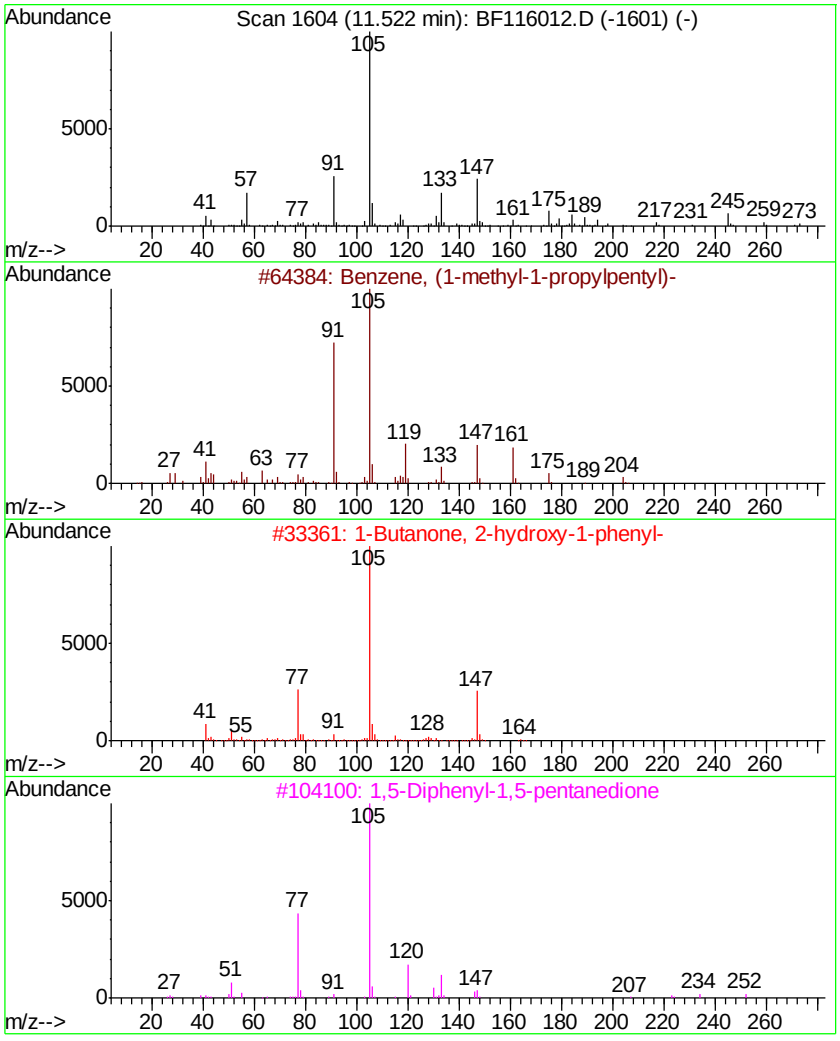
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

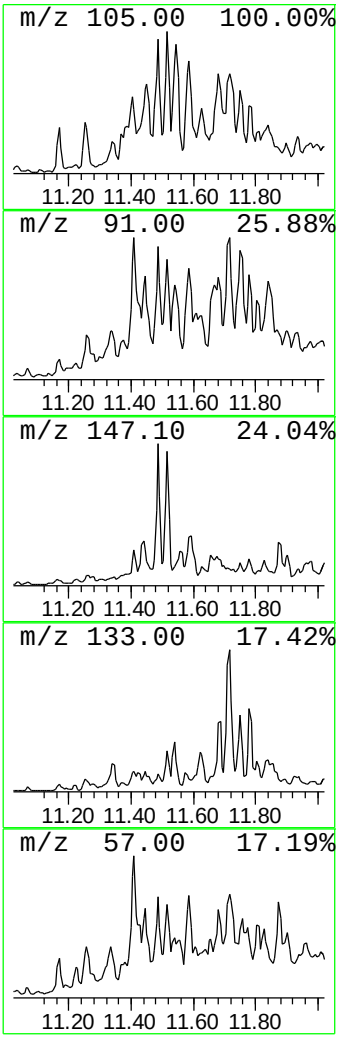
****

Peak Number 6 unknown11.52 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.52	5.16 ng	294834	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-1-propylpentyl)-	204	C15H24	054932-91-1	37
2	1-Butanone, 2-hydroxy-1-phenyl-	164	C10H12O2	016183-46-3	28
3	1,5-Diphenyl-1,5-pentanedione	252	C17H16O2	006263-83-8	25
4	3-Chlorophenyl-.beta.-phenylprop...	260	C15H13ClO2	023522-74-9	16
5	(+-)-N-Benzyl-alpha-methyl-N-nit...	240	C15H16N2O	028179-11-5	16





Library Search Compound Report

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Acq On : 6 Aug 2019 14:49
Operator : HP/JU
Sample : K4135-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-B1-B4-COMP-(30)

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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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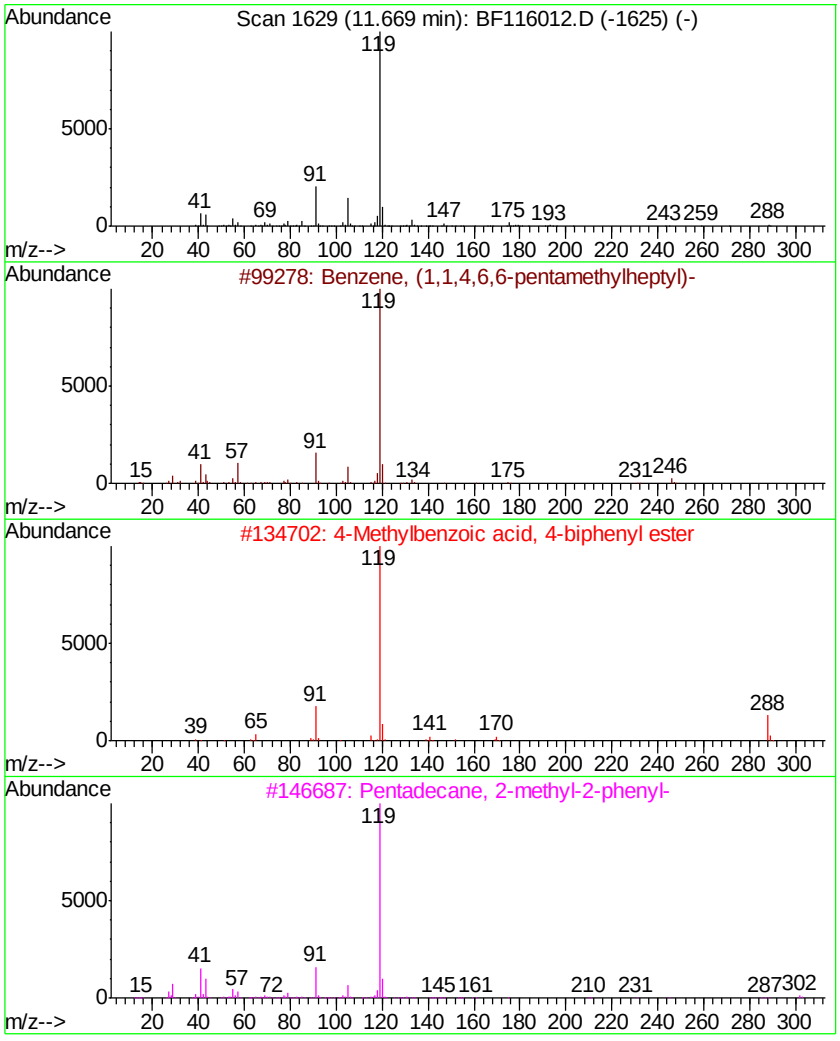
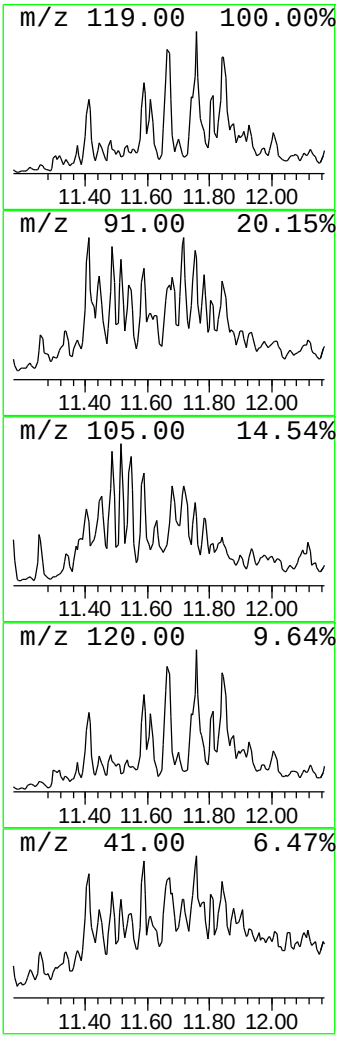
Peak Number 7 Benzene, (1,1,4,6,6-pentame... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.67	17.00 ng	970614	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1,1,4,6,6-pentamethylh...	246	C18H30	055134-07-1	78
2	4-Methylbenzoic acid, 4-biphenyl...	288	C20H16O2	1000354-15-9	64
3	Pentadecane, 2-methyl-2-phenyl-	302	C22H38	029138-94-1	64
4	Benzene, (1,1-dimethyldecyl)-	246	C18H30	027854-40-6	64
5	3-Methylbenzoic acid, 2-biphenyl...	288	C20H16O2	1000331-27-0	64





Library Search Compound Report

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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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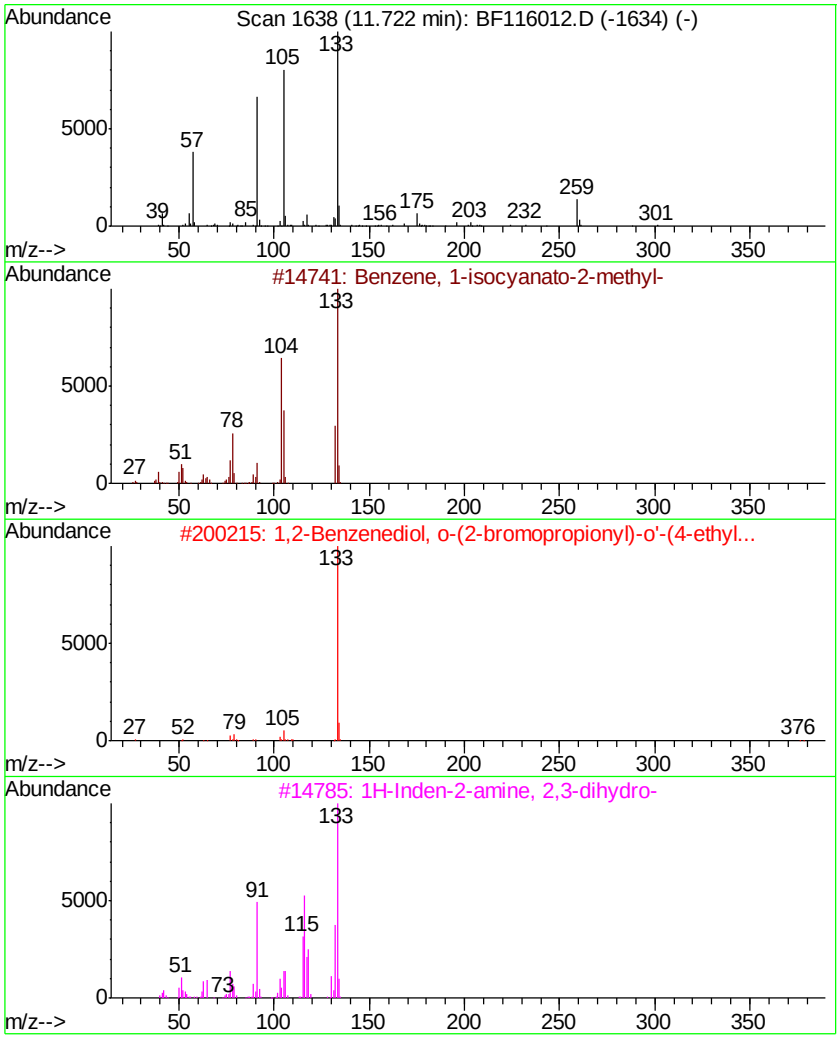
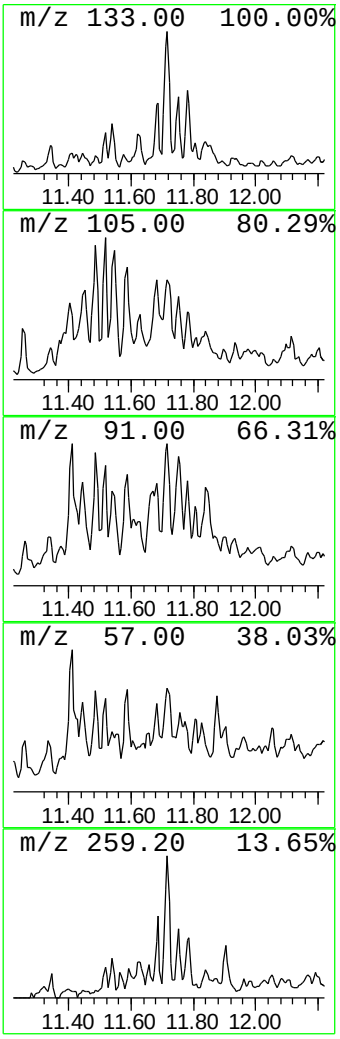
Peak Number 8 Benzene, 1-isocyanato-2-met... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.72	8.66 ng	494451	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-isocyanato-2-methyl-	133	C8H7NO	000614-68-6	53
2	1,2-Benzenediol, o-(2-bromopropi...	376	C18H17BrO4	1000325-97-0	50
3	1H-Inden-2-amine, 2,3-dihydro-	133	C9H11N	002975-41-9	50
4	1,2-Benzenediol, O-(4-ethylbenzo...	414	C23H17F3O4	1000330-50-5	50
5	1-Bromo-1,4,4a,5,8,8a-hexahydron...	212	C10H13Br	1000192-97-4	47





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ClientSampleId : 1S-B1-B4-COMP-(30)

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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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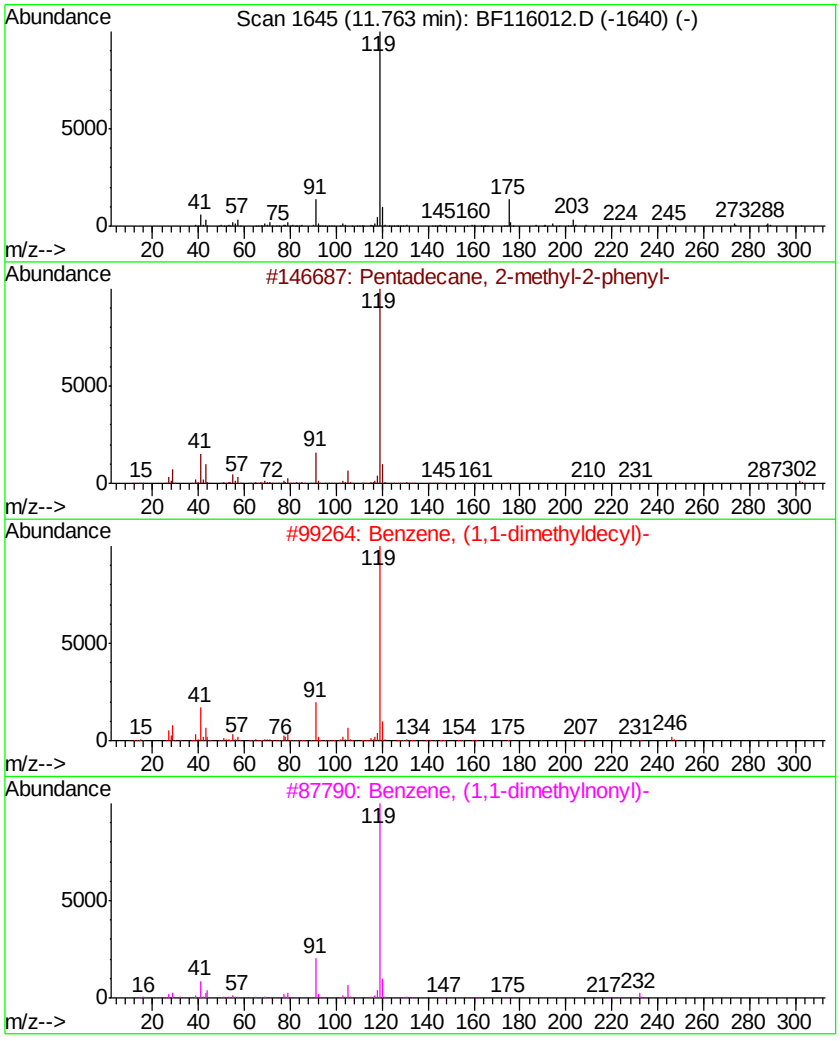
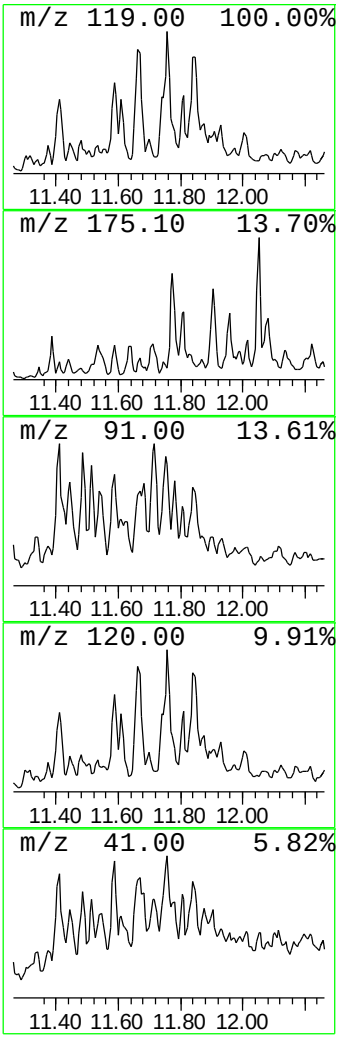
Peak Number 9 Pentadecane, 2-methyl-2-phe... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	12.53 ng	715704	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 2-methyl-2-phenyl-	302	C22H38	029138-94-1	80
2	Benzene, (1,1-dimethyldecyl)-	246	C18H30	027854-40-6	72
3	Benzene, (1,1-dimethylnonyl)-	232	C17H28	055191-25-8	72
4	Tridecane, 2-methyl-2-phenyl-	274	C20H34	027854-41-7	72
5	Benzene, (1,1,4,6,6-pentamethylh...	246	C18H30	055134-07-1	72





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Sample : K4135-16
Misc :
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Instrument : BNA_F
ClientSampleId : 1S-B1-B4-COMP-(30)

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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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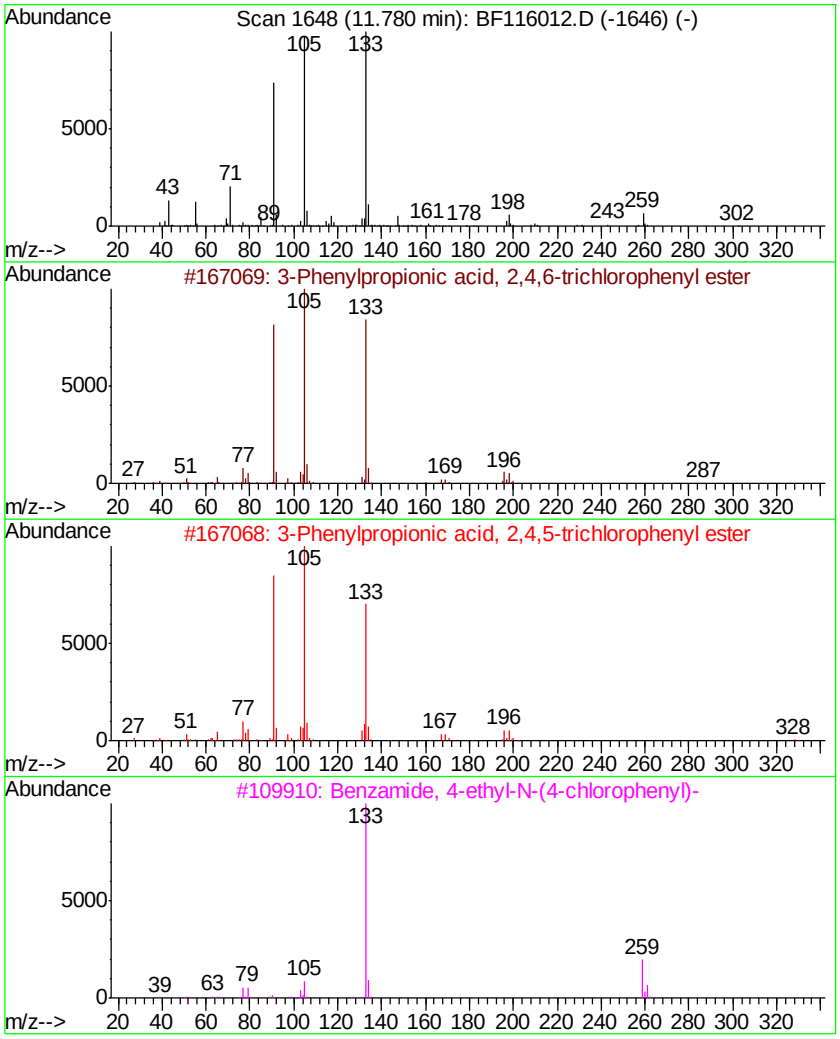
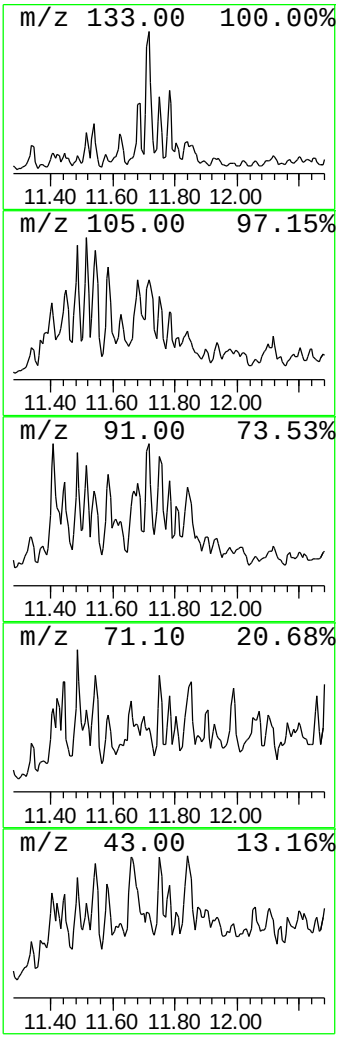
Peak Number 10 3-Phenylpropionic acid, 2,4... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.78	5.24 ng	299179	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Phenylpropionic acid, 2,4,6-tr...	328	C15H11Cl3O2	1000325-76-3	50
2	3-Phenylpropionic acid, 2,4,5-tr...	328	C15H11Cl3O2	1000354-74-5	50
3	Benzamide, 4-ethyl-N-(4-chloroph...	259	C15H14ClNO	1000340-35-1	49
4	3-Phenylpropionic acid, 3-fluoro...	244	C15H13FO2	1000331-05-8	45
5	3-Chlorophenyl-.beta.-phenylprop...	260	C15H13ClO2	023522-74-9	45





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Sample : K4135-16
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ClientSampleId : 1S-B1-B4-COMP-(30)

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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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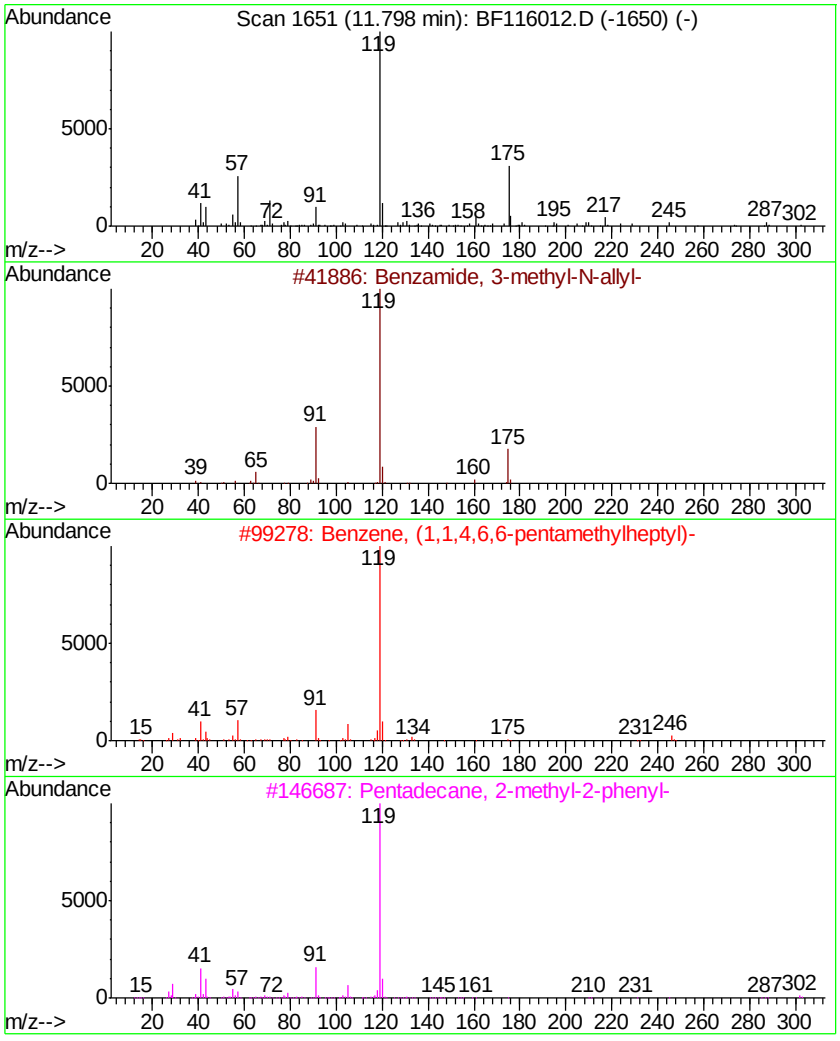
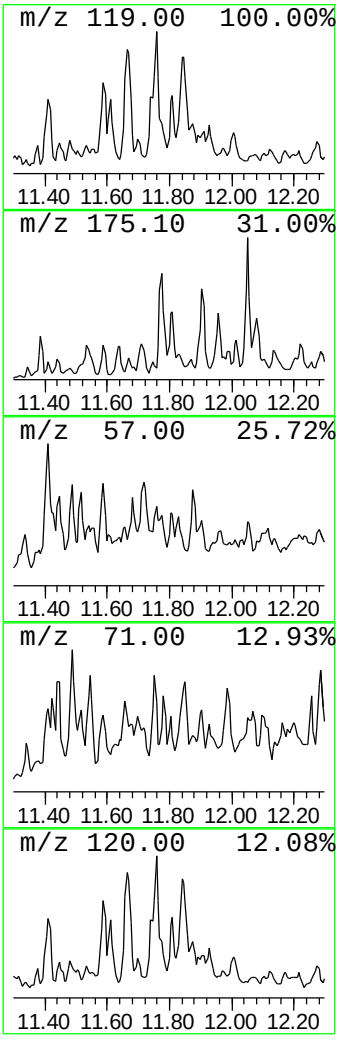
Peak Number 11 Benzamide, 3-methyl-N-allyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	3.96 ng	226257	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzamide, 3-methyl-N-allyl-	175	C11H13NO	1000339-09-8	64
2	Benzene, (1,1,4,6,6-pentamethylh...	246	C18H30	055134-07-1	59
3	Pentadecane, 2-methyl-2-phenyl-	302	C22H38	029138-94-1	50
4	Benzene, (1,1-dimethylnonyl)-	232	C17H28	055191-25-8	50
5	Benzene, (1,1-dimethyldecyl)-	246	C18H30	027854-40-6	50





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Sample : K4135-16
Misc :
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ClientSampleId : 1S-B1-B4-COMP-(30)

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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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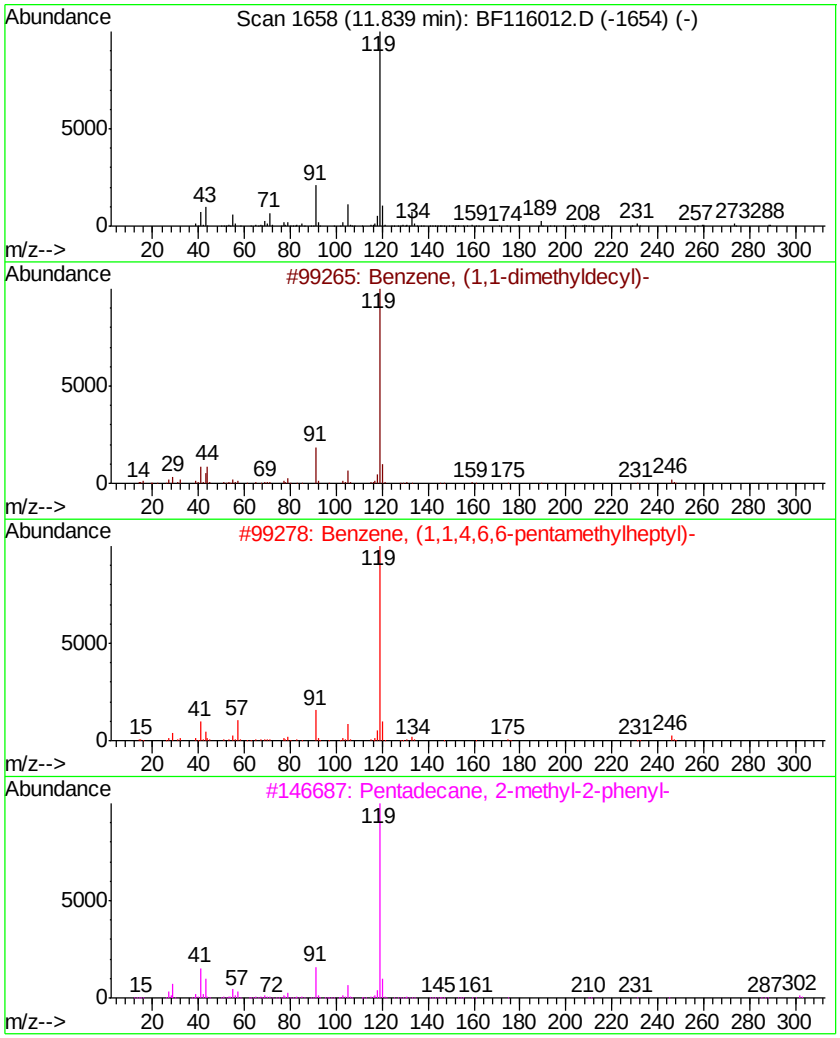
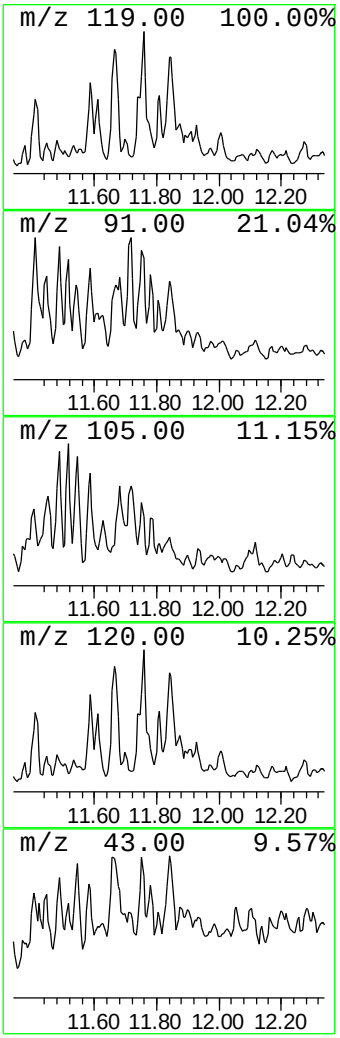
Peak Number 12 Benzene, (1,1-dimethyldecyl)- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.84	9.92 ng	566425	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1,1-dimethyldecyl)-	246	C18H30	027854-40-6	72
2	Benzene, (1,1,4,6,6-pentamethylh...	246	C18H30	055134-07-1	72
3	Pentadecane, 2-methyl-2-phenyl-	302	C22H38	029138-94-1	72
4	Tridecane, 2-methyl-2-phenyl-	274	C20H34	027854-41-7	64
5	Dicumyl peroxide	270	C18H22O2	000080-43-3	64





Library Search Compound Report

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Sample : K4135-16
Misc :
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Instrument : BNA_F
ClientSampleId : 1S-B1-B4-COMP-(30)

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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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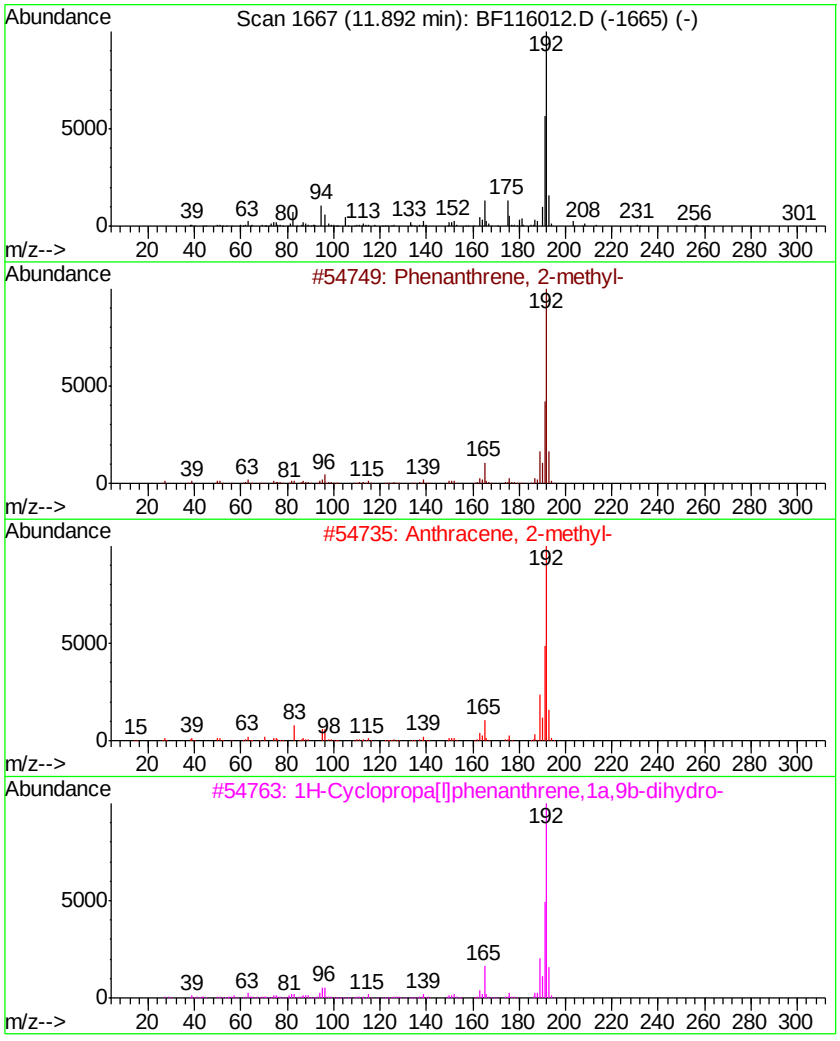
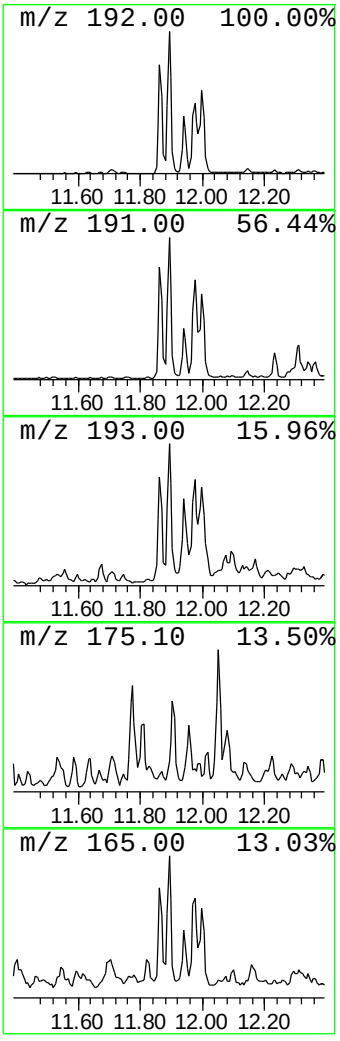
Peak Number 13 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	9.21 ng	526022	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95





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Instrument : BNA_F
ClientSampleId : 1S-B1-B4-COMP-(30)

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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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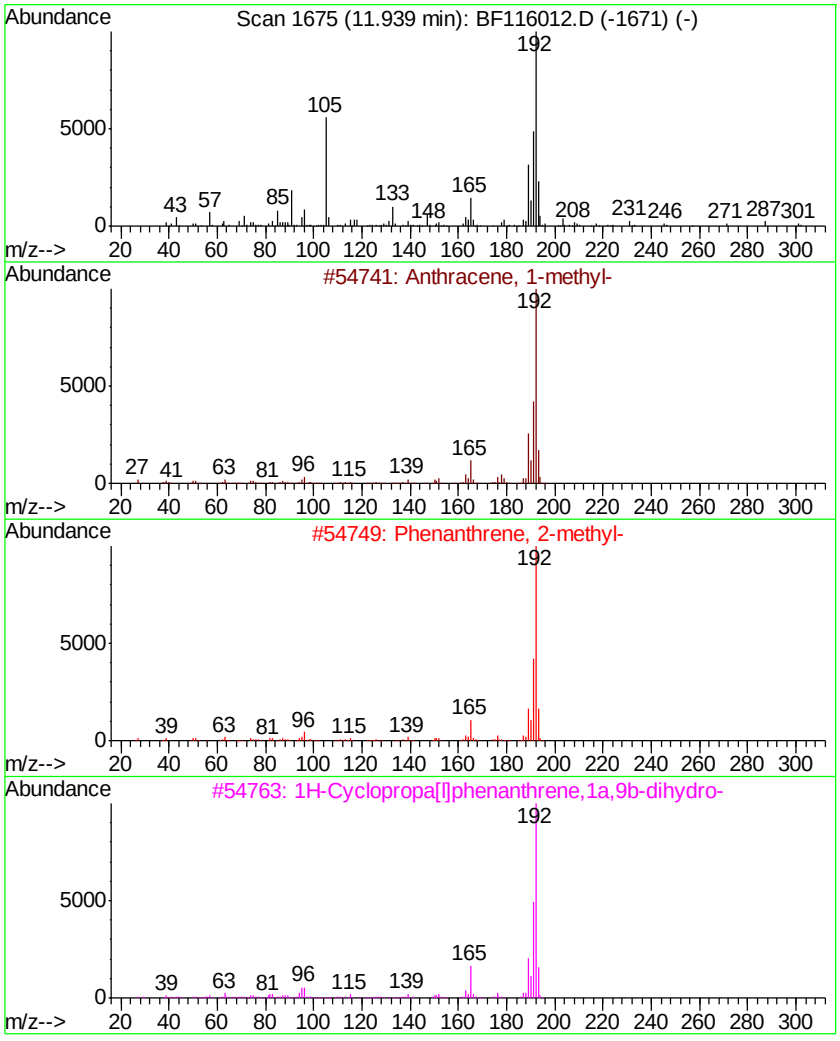
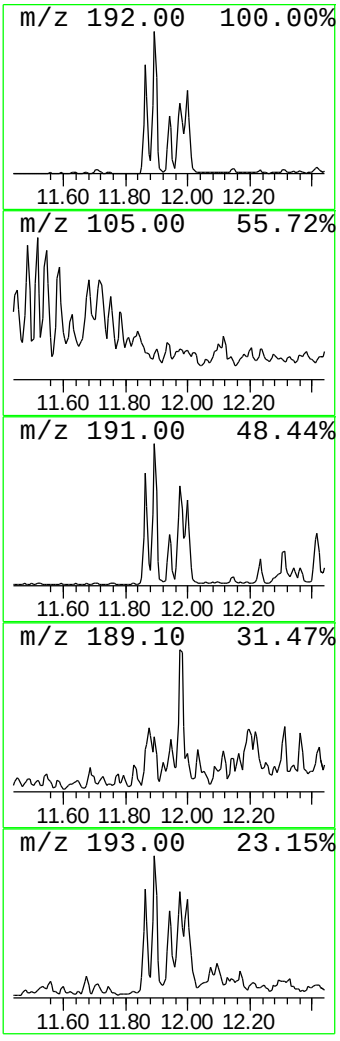
Peak Number 14 Anthracene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	4.23 ng	241700	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	90





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Sample : K4135-16
Misc :
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ClientSampleId : 1S-B1-B4-COMP-(30)

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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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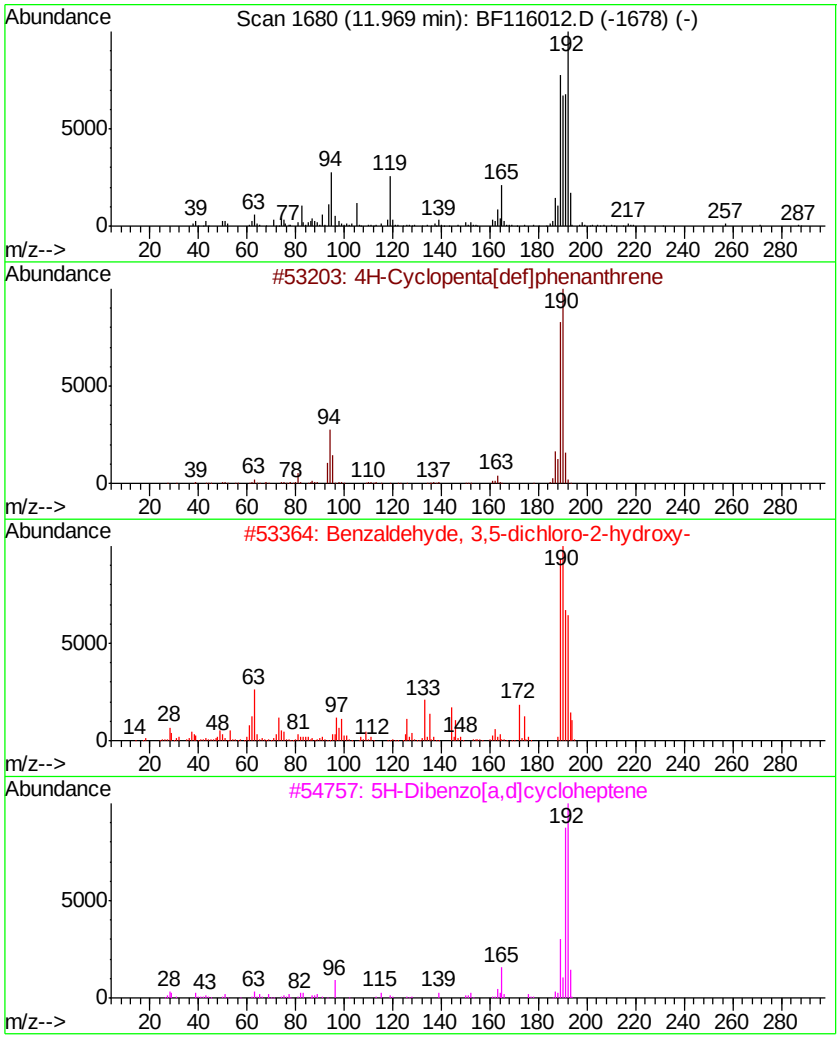
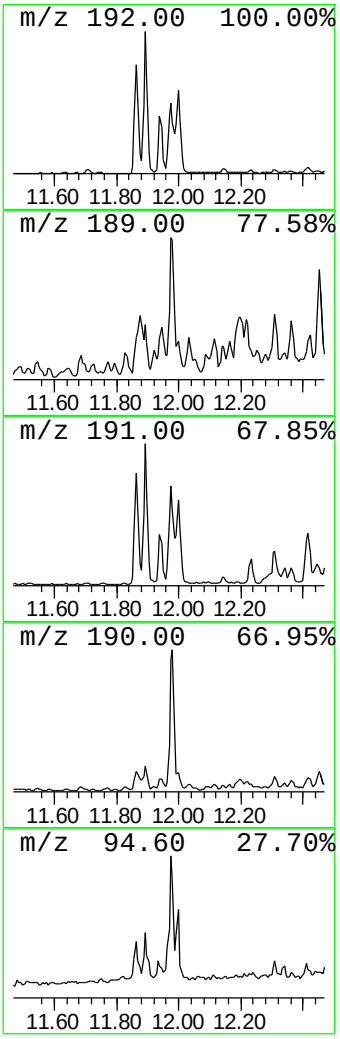
Peak Number 15 4H-Cyclopenta[def]phenanthrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	7.85 ng	448430	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	64
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	25
4	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	22
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	20





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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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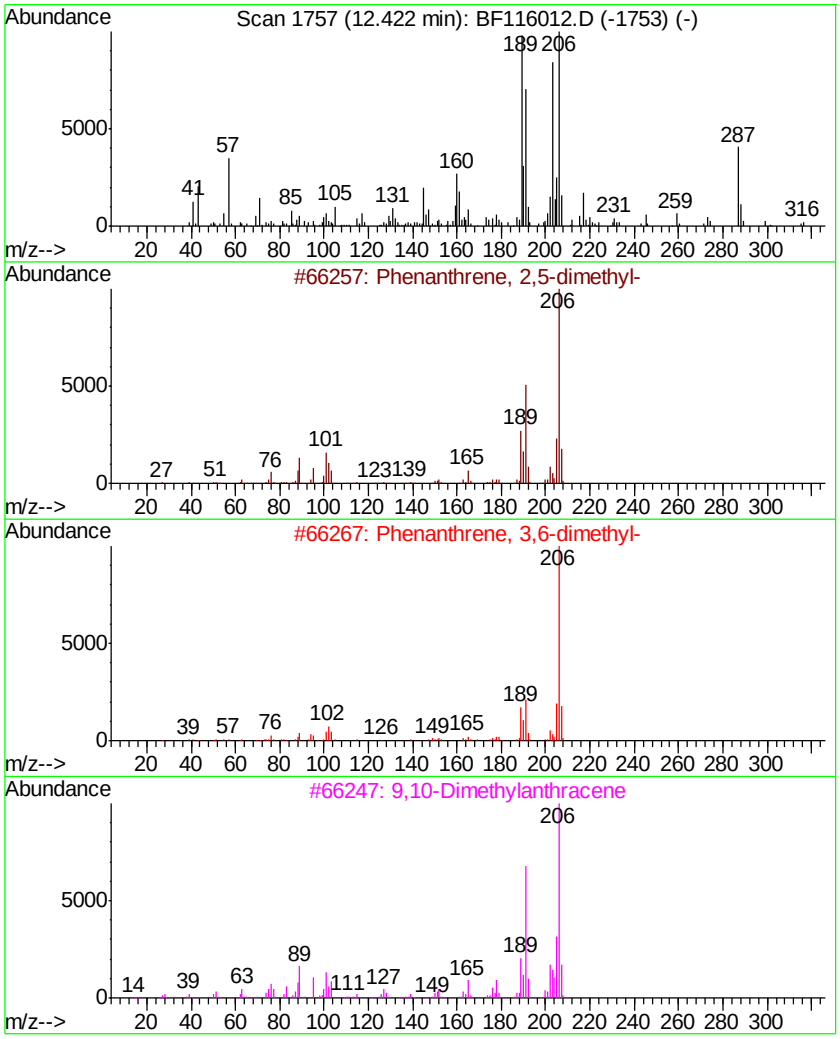
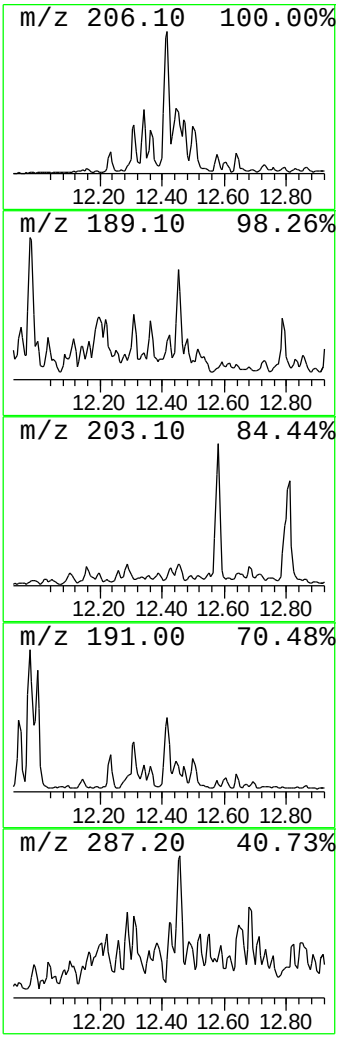
Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	4.73 ng	270003	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	89
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	86





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

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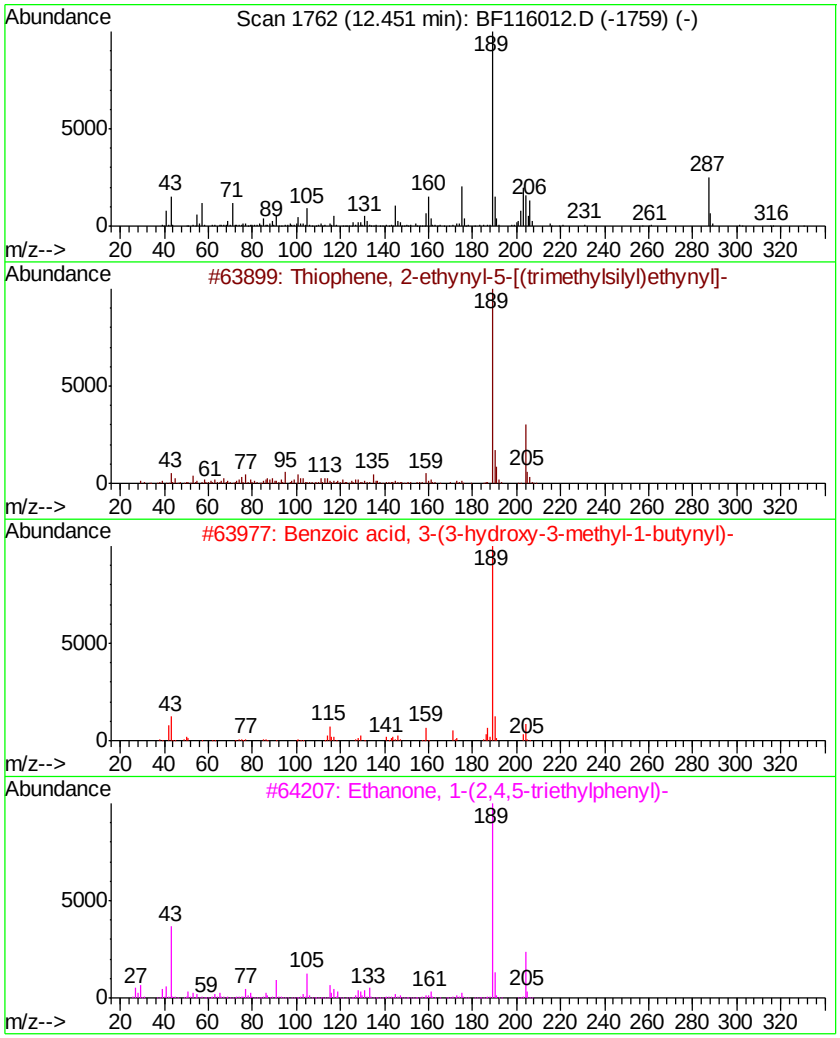
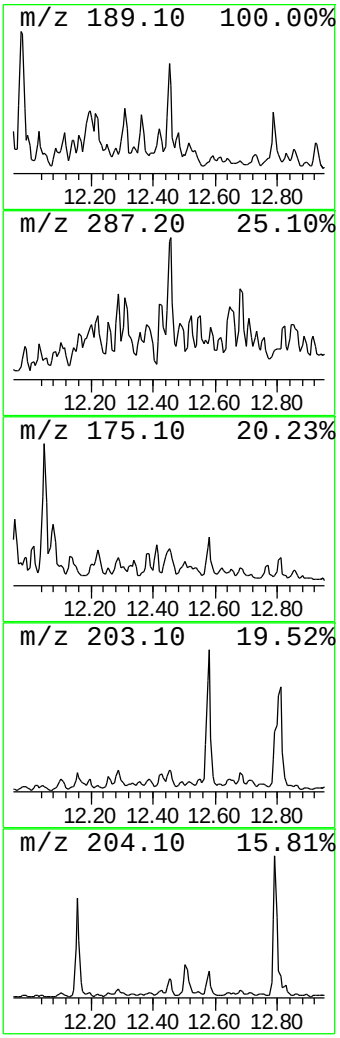
Peak Number 17 unknown12.45 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	5.91 ng	337325	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thiophene, 2-ethynyl-5-[(trimeth...	204	C11H12SSi	182323-29-1	46
2	Benzoic acid, 3-(3-hydroxy-3-met...	204	C12H12O3	1000337-06-2	43
3	Ethanone, 1-(2,4,5-triethylphenyl)-	204	C14H20O	002715-54-0	43
4	Butan-1-one, 1-(1-ethyl-2-hydrox...	303	C16H21N3O3	1000276-89-9	40
5	6S-2,3,8,8-Tetramethyltricyclo[5...	204	C15H24	137235-48-4	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080619\
Data File : BF116012.D
Acq On : 6 Aug 2019 14:49
Operator : HP/JU
Sample : K4135-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-B1-B4-COMP-(30)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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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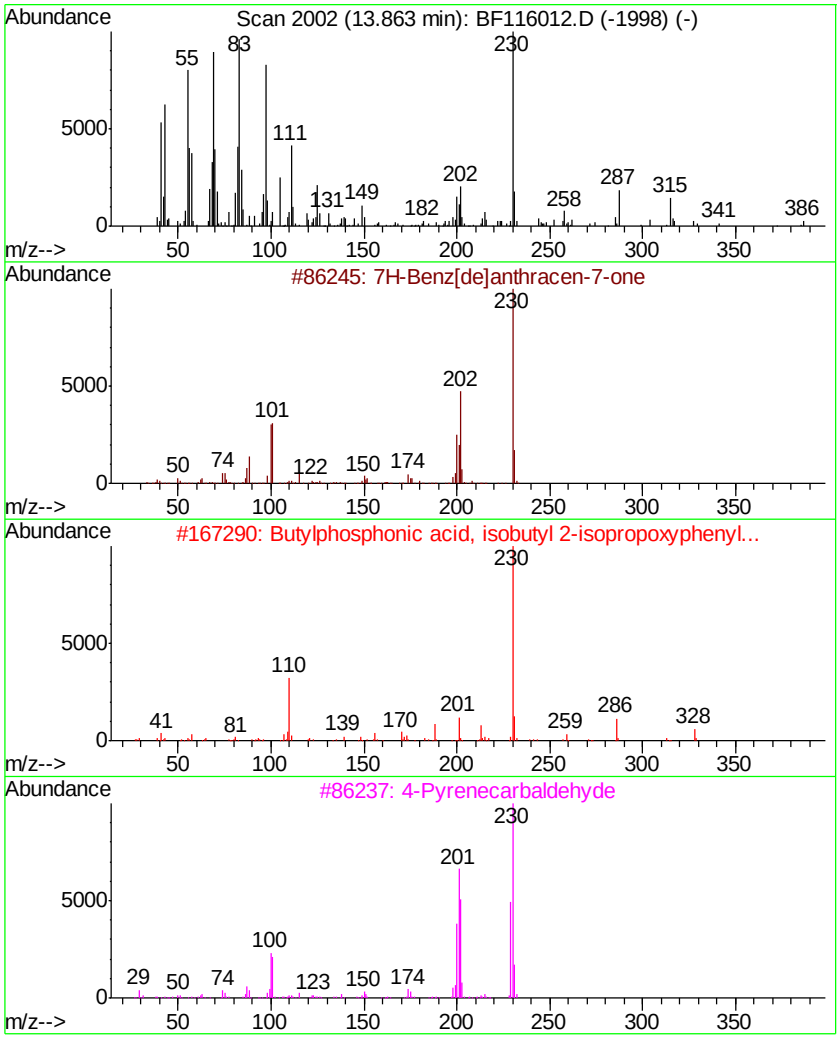
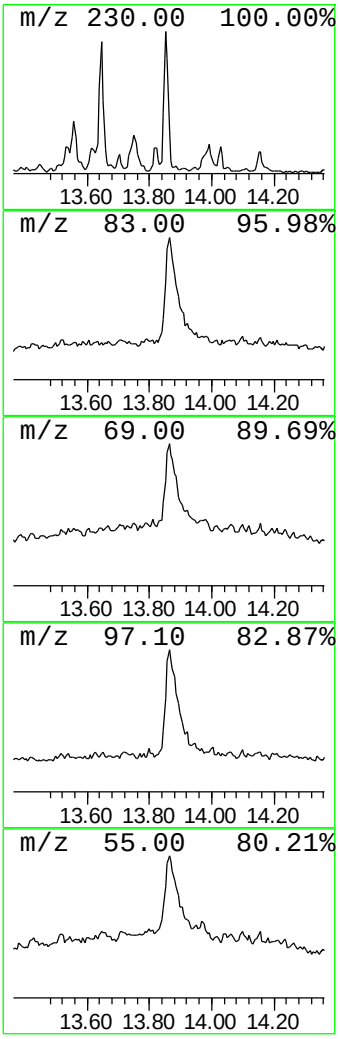
Peak Number 18 7H-Benz[de]anthracen-7-one Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.86	3.97 ng	468348	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	60
2	Butylphosphonic acid, isobutyl 2...	328	C17H29O4P	1000315-05-9	38
3	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	37
4	m-Terphenyl	230	C18H14	000092-06-8	35
5	p-Terphenyl	230	C18H14	000092-94-4	35





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080619\
Data File : BF116012.D
Acq On : 6 Aug 2019 14:49
Operator : HP/JU
Sample : K4135-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-B1-B4-COMP-(30)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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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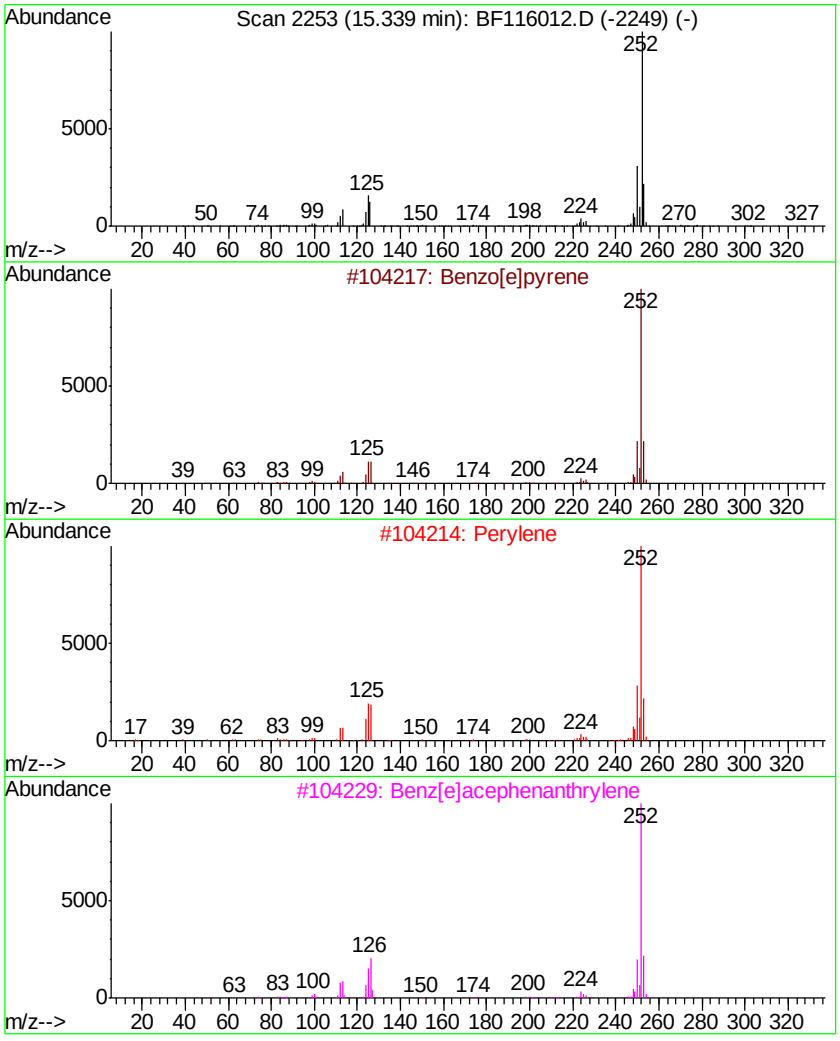
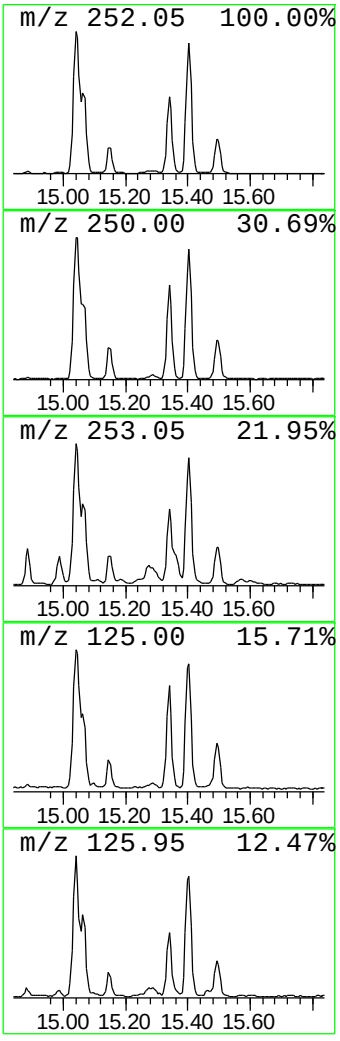
Peak Number 19 Benzo[e]pyrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.34	9.58 ng	581834	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Perylene	252	C20H12	000198-55-0	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
5	Benzo[a]pyrene	252	C20H12	000050-32-8	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080619\
Data File : BF116012.D
Acq On : 6 Aug 2019 14:49
Operator : HP/JU
Sample : K4135-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-B1-B4-COMP-(30)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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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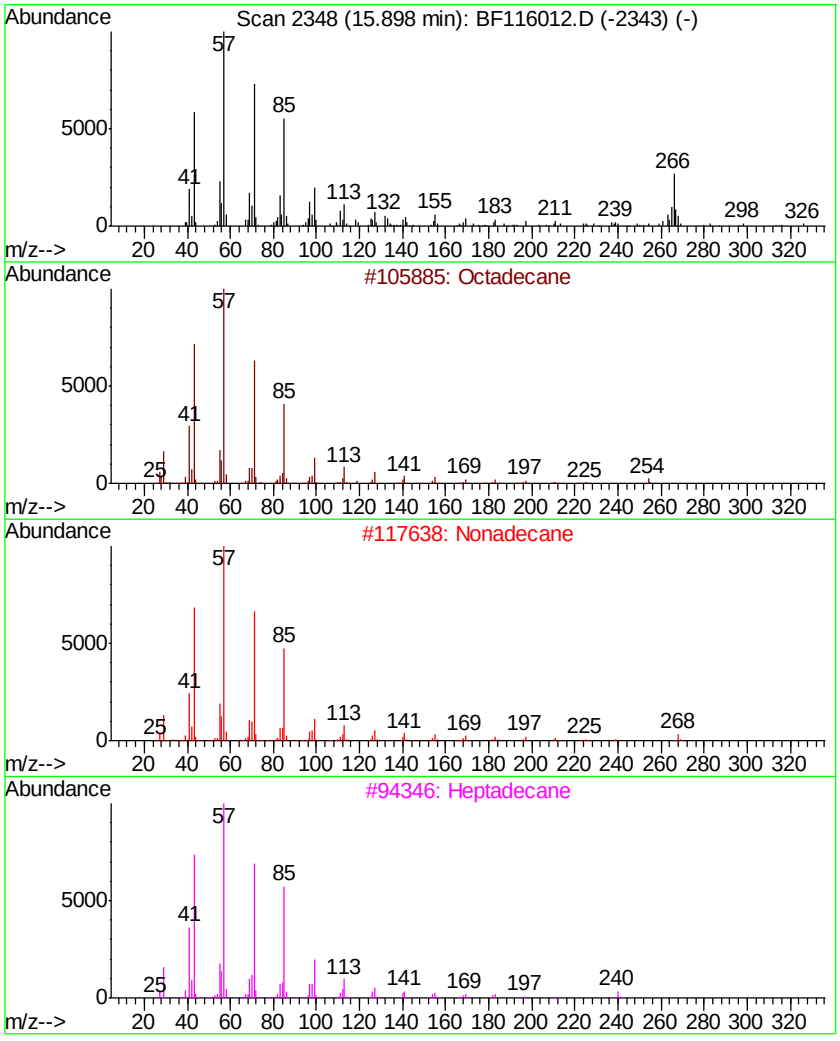
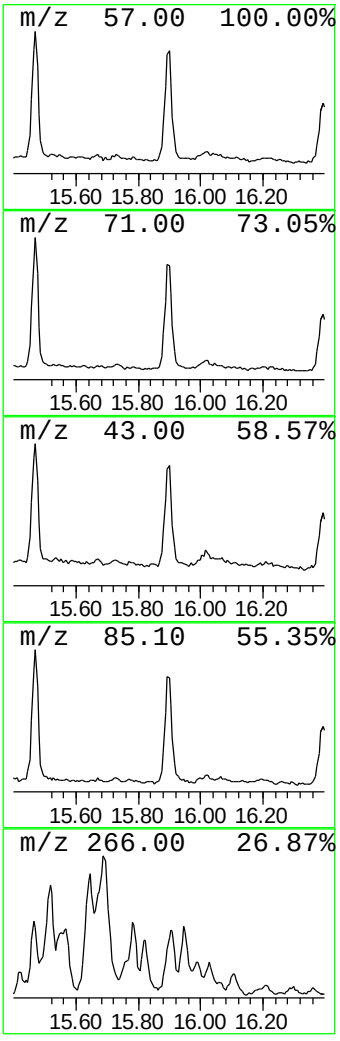
Peak Number 20 Octadecane Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.90	4.06 ng	246682	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	97
2	Nonadecane	268	C19H40	000629-92-5	96
3	Heptadecane	240	C17H36	000629-78-7	95
4	Heneicosane	296	C21H44	000629-94-7	76
5	Eicosane, 3-methyl-	296	C21H44	006418-46-8	76





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF080619\
Data File : BF116012.D
Acq On : 6 Aug 2019 14:49
Operator : HP/JU
Sample : K4135-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-B1-B4-COMP-(30)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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
Butane, 2-methoxy...	2.12	25.9	ng	1008190	1	6.84	779919	20.0
unknown6.62	6.62	86.8	ng	3383330	1	6.84	779919	20.0
unknown11.17	11.17	4.0	ng	227054	4	11.36	1142230	20.0
Dibenzothiophene	11.26	6.6	ng	378837	4	11.36	1142230	20.0
unknown11.52	11.52	5.2	ng	294834	4	11.36	1142230	20.0
Benzene, (1,1,4,6...	11.67	17.0	ng	970614	4	11.36	1142230	20.0
Benzene, 1-isocya...	11.72	8.7	ng	494451	4	11.36	1142230	20.0
Pentadecane, 2-me...	11.76	12.5	ng	715704	4	11.36	1142230	20.0
3-Phenylpropionic...	11.78	5.2	ng	299179	4	11.36	1142230	20.0
Benzamide, 3-meth...	11.80	4.0	ng	226257	4	11.36	1142230	20.0
Benzene, (1,1-dim...	11.84	9.9	ng	566425	4	11.36	1142230	20.0
Phenanthrene, 2-m...	11.89	9.2	ng	526022	4	11.36	1142230	20.0
Anthracene, 1-met...	11.94	4.2	ng	241700	4	11.36	1142230	20.0
4H-Cyclopenta[def...	11.97	7.8	ng	448430	4	11.36	1142230	20.0
Phenanthrene, 2,5...	12.42	4.7	ng	270003	4	11.36	1142230	20.0
unknown12.45	12.45	5.9	ng	337325	4	11.36	1142230	20.0
7H-Benz[de]anthra...	13.86	4.0	ng	468348	5	14.00	2361170	20.0
Benzo[e]pyrene	15.34	9.6	ng	581834	6	15.46	1214060	20.0
Octadecane	15.90	4.1	ng	246682	6	15.46	1214060	20.0