LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073018\
Data File : BF107816.D
Acq On : 30 Jul 2018 22:33
Operator : JU/SJ
Sample : J4164-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

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-BF073018.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	5.196	482	486	504	rBV	499823	676586	15.89%	0.762%
2	5.601	551	555	578	rBV	1931803	3081515	72.35%	3.470%
3	6.601	722	725	742	rBV	2060933	3397931	79.78%	3.827%
4	6.737	744	748	783	rVV	2909080	4258896	100.00%	4.796%
5	6.960	783	786	808	rVV	750166	1179012	27.68%	1.328%
6	7.113	808	812	827	rVV	2579379	2816425	66.13%	3.172%
7	7.525	878	882	906	rBV	1314945	2362564	55.47%	2.661%
8	8.242	1000	1004	1006	rBV	1204842	1174620	27.58%	1.323%
9	8.766	1090	1093	1096	rVV	207186	162984	3.83%	0.184%
10	8.954	1121	1125	1131	rBV	207464	283711	6.66%	0.320%
11	9.054	1138	1142	1150	rBV	228956	280342	6.58%	0.316%
12	9.313	1180	1186	1195	rBV	3409213	4048351	95.06%	4.559%
13	9.378	1195	1197	1202	rVV	140083	173866	4.08%	0.196%
14	9.584	1227	1232	1236	rBV	200742	317805	7.46%	0.358%
15	9.654	1240	1244	1247	rVV	547272	623844	14.65%	0.703%
16	9.684	1247	1249	1251	rVV	295639	325389	7.64%	0.366%
17	9.707	1251	1253	1260	rVV2	224210	321217	7.54%	0.362%
18	9.772	1261	1264	1272	rVV	260418	381020	8.95%	0.429%
19	9.866	1276	1280	1284	rVV2	669170	905463	21.26%	1.020%
20	10.001	1299	1303	1306	rBV	1193883	1141204	26.80%	1.285%
21	10.101	1316	1320	1324	rBV	182930	243513	5.72%	0.274%
22	10.195	1333	1336	1340	rBV3	297171	312705	7.34%	0.352%
23	10.236	1340	1343	1346	rVB	330362	301091	7.07%	0.339%
24	10.313	1352	1356	1359	rBV	345880	403899	9.48%	0.455%
25	10.342	1359	1361	1364	rVB	192921	148146	3.48%	0.167%
26	10.372	1364	1366	1368	rBV	247164	178003	4.18%	0.200%
27	10.407	1368	1372	1378	rVB2	312612	457669	10.75%	0.515%
28	10.454	1378	1380	1384	rBV2	106227	146194	3.43%	0.165%
29	10.548	1393	1396	1402	rVB2	321078	454317	10.67%	0.512%
30	10.707	1417	1423	1426	rVB3	139545	246415	5.79%	0.278%
31	10.795	1433	1438	1444	rBV	1388645	1765921	41.46%	1.989%
32	10.848	1445	1447	1450	rVB	279923	248007	5.82%	0.279%
33	10.883	1450	1453	1456	rBV	156528	233903	5.49%	0.263%
34	11.095	1485	1489	1492	rBV2	303884	459938	10.80%	0.518%

LSC Area Percent Report

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Sample : J4164-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

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-BF073018.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.125	1492	1494	1501	rVB2	270999	316112	7.42%	0.356%
36	11.301	1521	1524	1527	rBV2	303947	295145	6.93%	0.332%
37	11.395	1536	1540	1549	rVB	263830	394860	9.27%	0.445%
38	11.495	1553	1557	1559	rBV	1017259	1091255	25.62%	1.229%
39	11.519	1559	1561	1568	rVB	2552967	2689364	63.15%	3.029%
40	11.572	1568	1570	1574	rBV	400588	545383	12.81%	0.614%
41	11.730	1594	1597	1600	rBV4	217556	225680	5.30%	0.254%
42	11.825	1610	1613	1622	rVB	367128	473681	11.12%	0.533%
43	11.913	1624	1628	1632	rVB	180356	234998	5.52%	0.265%
44	11.995	1639	1642	1645	rBV	1123516	1265247	29.71%	1.425%
45	12.025	1645	1647	1653	rVV	1172003	1237477	29.06%	1.394%
46	12.078	1653	1656	1658	rVV	311071	317516	7.46%	0.358%
47	12.107	1658	1661	1664	rVV2	1357245	1817757	42.68%	2.047%
48	12.130	1664	1665	1669	rVV	967064	920812	21.62%	1.037%
49	12.230	1679	1682	1685	rVB	173082	166591	3.91%	0.188%
50	12.289	1689	1692	1696	rBV	527240	658845	15.47%	0.742%
51	12.325	1696	1698	1703	rVB3	248694	291220	6.84%	0.328%
52	12.419	1712	1714	1716	rBV	172160	173225	4.07%	0.195%
53	12.442	1716	1718	1721	rVV	198084	224962	5.28%	0.253%
54	12.472	1721	1723	1725	rVV	353533	294840	6.92%	0.332%
55	12.495	1725	1727	1732	rVB3	225450	219978	5.17%	0.248%
56	12.548	1732	1736	1739	rBV	1175597	1476290	34.66%	1.663%
57	12.583	1739	1742	1744	rVV2	541498	737112	17.31%	0.830%
58	12.642	1748	1752	1760	rVB4	516464	1051283	24.68%	1.184%
59	12.713	1761	1764	1769	rBV	2512725	2909518	68.32%	3.277%
60	12.754	1769	1771	1773	rVV	253770	248203	5.83%	0.280%
61	12.777	1773	1775	1778	rVV	209265	185829	4.36%	0.209%
62	12.813	1778	1781	1784	rVV2	284353	271116	6.37%	0.305%
63	12.866	1787	1790	1792	rBV	305288	309869	7.28%	0.349%
64	12.889	1792	1794	1796	rVV2	192360	152869	3.59%	0.172%
65	12.948	1798	1804	1809	rVV	3286240	3963820	93.07%	4.464%
66	12.995	1809	1812	1815	rVB	382123	426723	10.02%	0.481%
67	13.077	1823	1826	1836	rVB	2420088	2929137	68.78%	3.299%
68	13.166	1836	1841	1846	rBV4	485044	881348	20.69%	0.993%
69	13.219	1846	1850	1852	rBV3	199339	251257	5.90%	0.283%
70	13.272	1857	1859	1864	rVV	846988	992754	23.31%	1.118%
71	13.342	1868	1871	1874	rVV	477323	527731	12.39%	0.594%

LSC Area Percent Report

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Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

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
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Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073018.M
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72	13.377	1874	1877	1885	rVB	824739	1013456	23.80%	1.141%
73	13.472	1890	1893	1896	rVV	785473	857814	20.14%	0.966%
74	13.501	1896	1898	1907	rVB	721218	944676	22.18%	1.064%
75	13.624	1915	1919	1921	rBV4	168330	232718	5.46%	0.262%
76	13.677	1925	1928	1929	rBV2	147549	152075	3.57%	0.171%
77	13.760	1939	1942	1944	rBV2	129661	179372	4.21%	0.202%
78	13.789	1944	1947	1950	rVB2	349938	403629	9.48%	0.455%
79	13.842	1954	1956	1960	rVB	164211	148271	3.48%	0.167%
80	13.901	1960	1966	1968	rBV2	596224	879567	20.65%	0.991%
81	13.924	1968	1970	1972	rVV	420656	370353	8.70%	0.417%
82	13.954	1972	1975	1978	rVV3	497109	606355	14.24%	0.683%
83	13.995	1980	1982	1989	rVB2	340421	583150	13.69%	0.657%
84	14.066	1992	1994	2001	rBV3	127703	213889	5.02%	0.241%
85	14.142	2003	2007	2011	rBV2	2153138	3787486	88.93%	4.265%
86	14.177	2011	2013	2020	rVV	2077948	2184618	51.30%	2.460%
87	14.230	2020	2022	2024	rVB2	187808	144854	3.40%	0.163%
88	14.313	2032	2036	2042	rVB4	285974	476230	11.18%	0.536%
89	14.495	2065	2067	2069	rBV	181391	160078	3.76%	0.180%
90	14.536	2069	2074	2077	rVV	819053	1101750	25.87%	1.241%
91	14.571	2077	2080	2084	rVB2	460712	531204	12.47%	0.598%
92	14.666	2093	2096	2098	rBV	404227	398560	9.36%	0.449%
93	15.054	2160	2162	2166	rVB4	178120	184334	4.33%	0.208%
94	15.230	2188	2192	2200	rBV	1105051	2651419	62.26%	2.986%
95	15.342	2208	2211	2219	rVB	326941	444436	10.44%	0.501%
96	15.554	2243	2247	2254	rVB	787041	1144853	26.88%	1.289%
97	15.624	2254	2259	2266	rBV	1144711	1986752	46.65%	2.237%
98	15.689	2266	2270	2273	rBV	579896	761953	17.89%	0.858%
99	17.265	2533	2538	2548	rVB	365455	854955	20.07%	0.963%
100	17.748	2614	2620	2632	rVB	274171	717064	16.84%	0.808%

Sum of corrected areas: 88798144

LSC Report - Integrated Chromatogram

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Data File : BF107816.D
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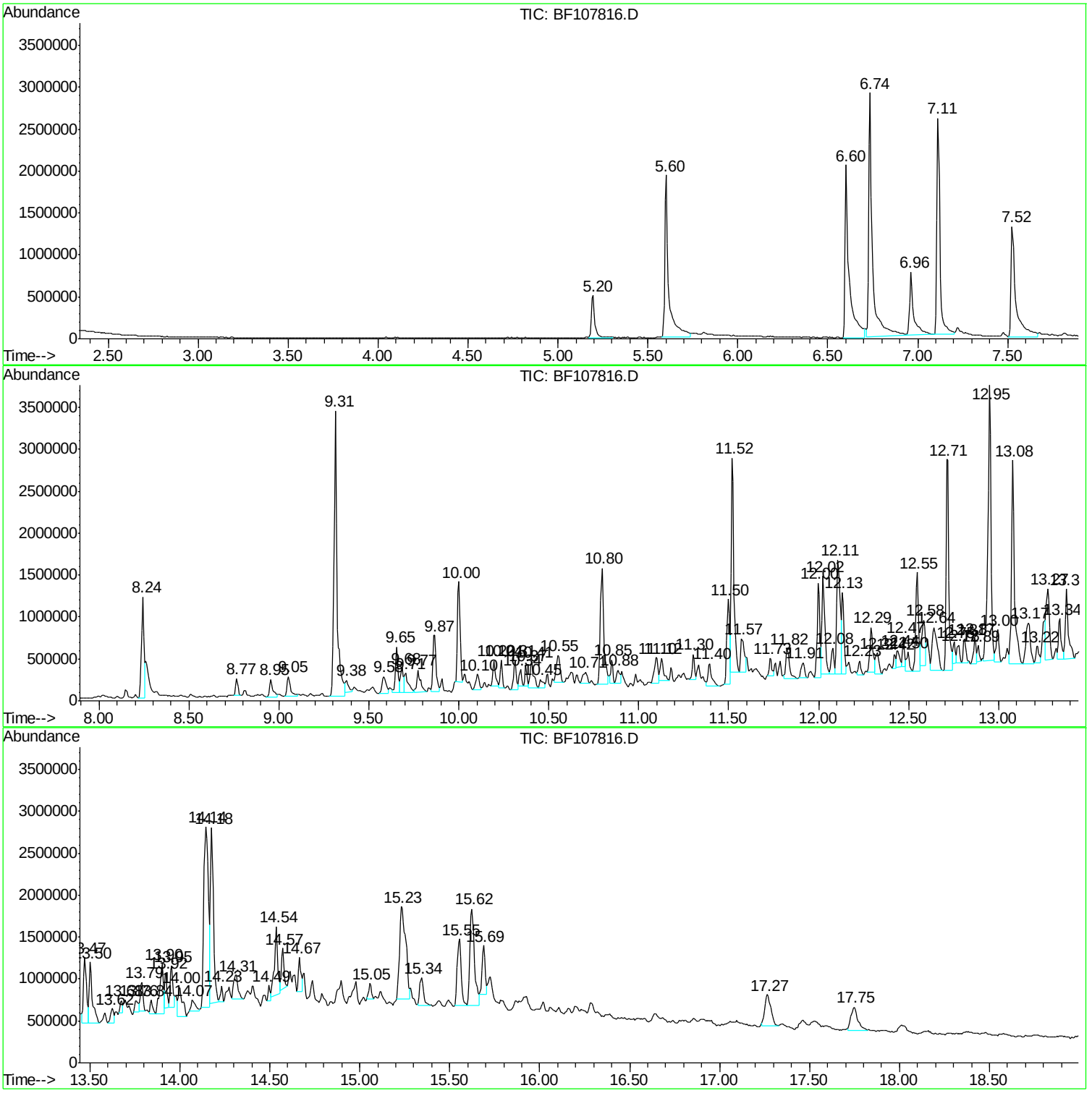
Operator : JU/SJ
Sample : J4164-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-5(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073018.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

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073018\
Data File : BF107816.D
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Operator : JU/SJ
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Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

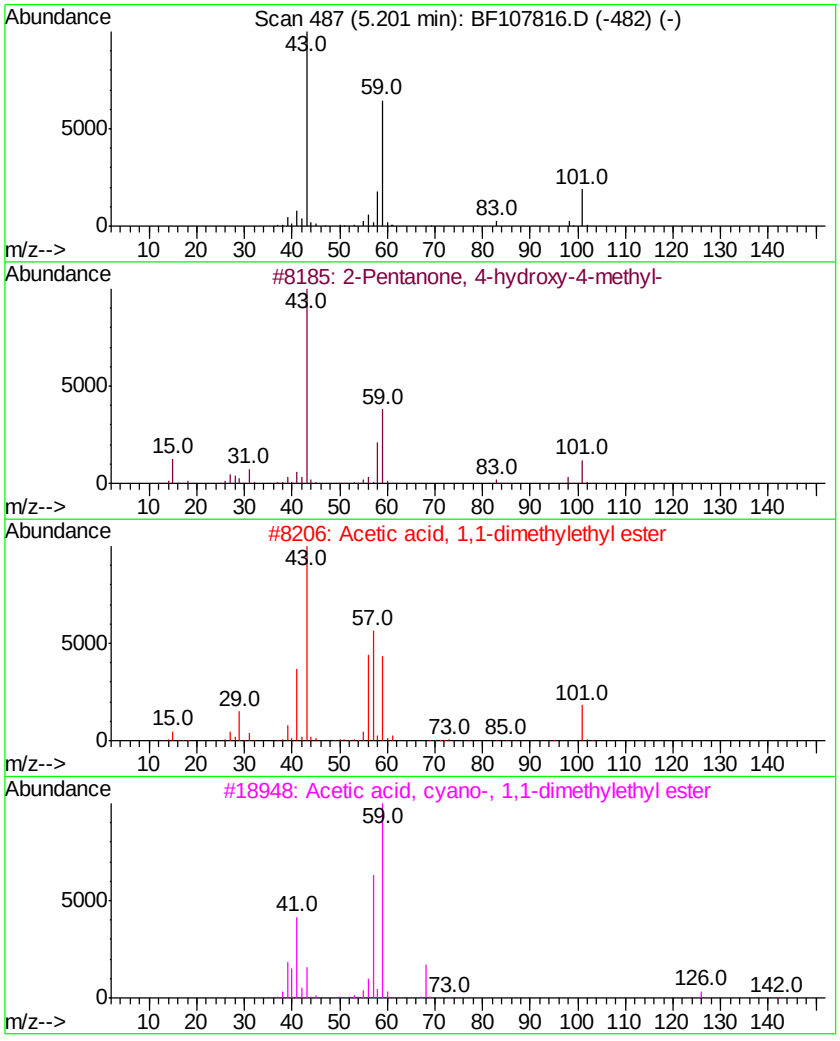
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

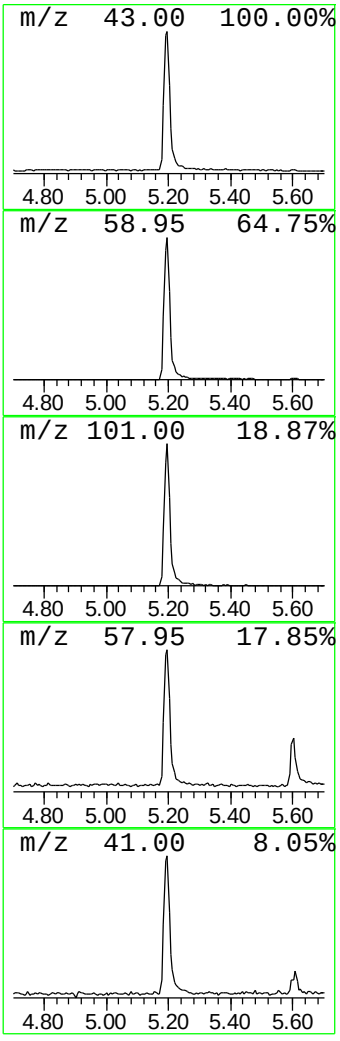
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.20	11.48 ng	676586	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	Guanidine	59	CH5N3	000113-00-8	9





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Instrument : BNA_F
ClientSampleId : SB-5(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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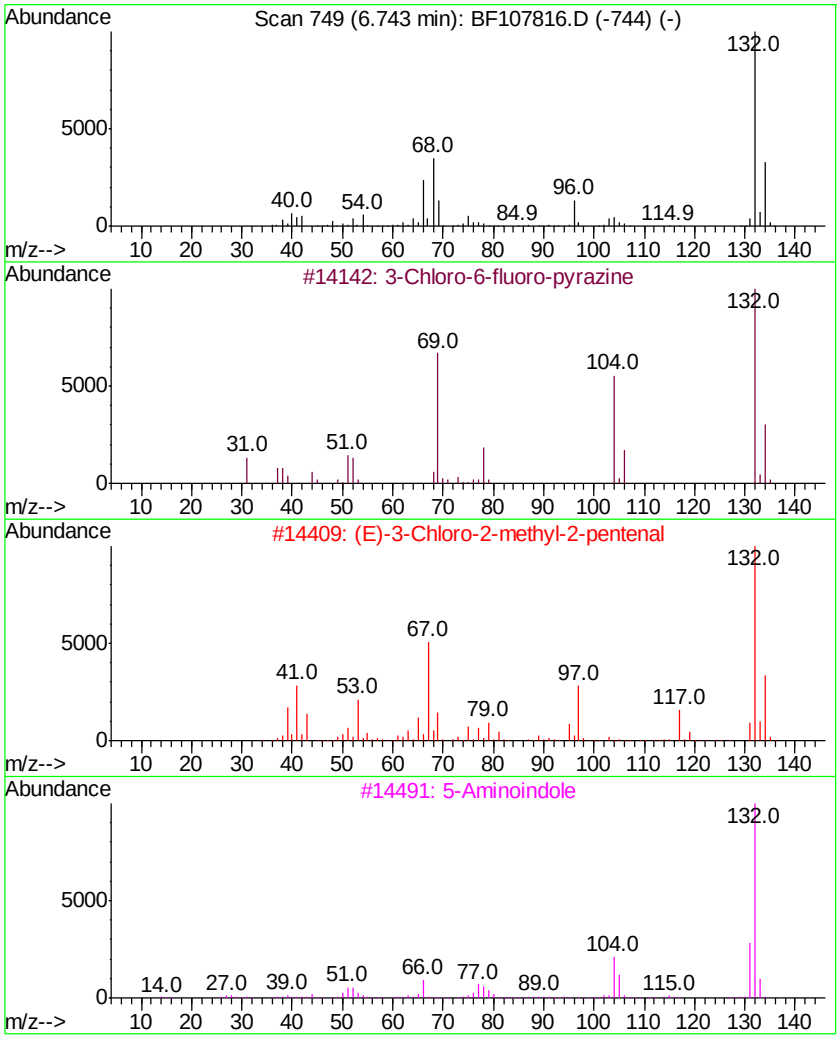
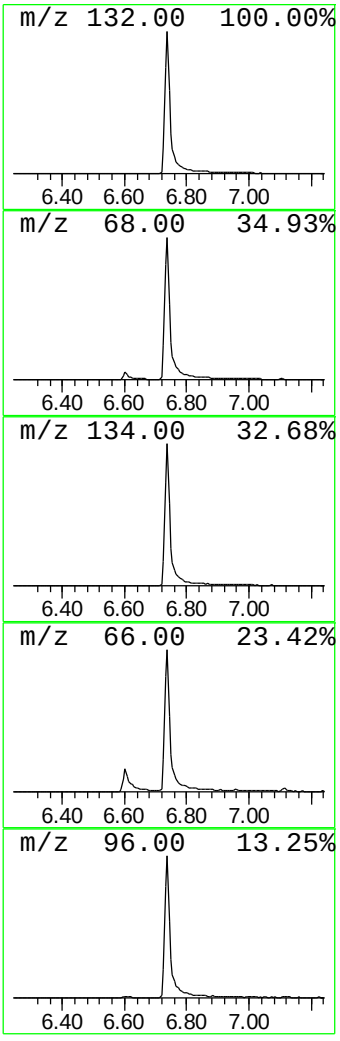
****

Peak Number 2 unknown6.74 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.74	72.25 ng	4258900	1,4-Dichlorobenzene-d4	6.96

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	12
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





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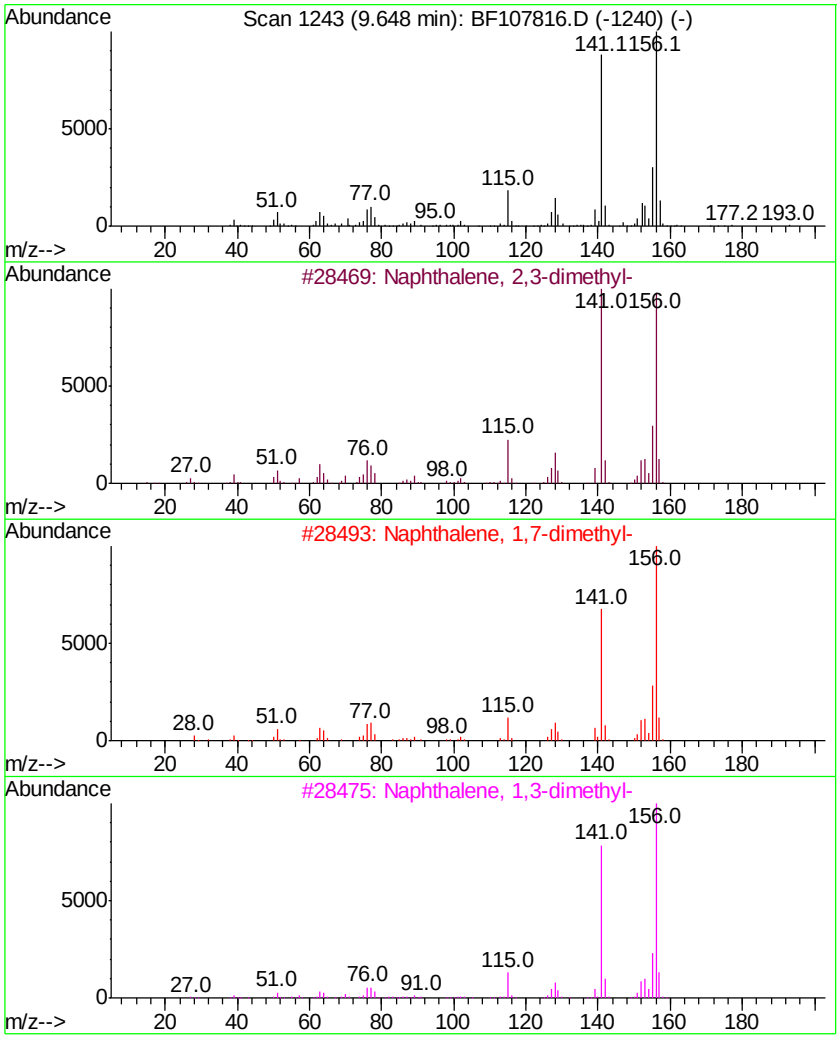
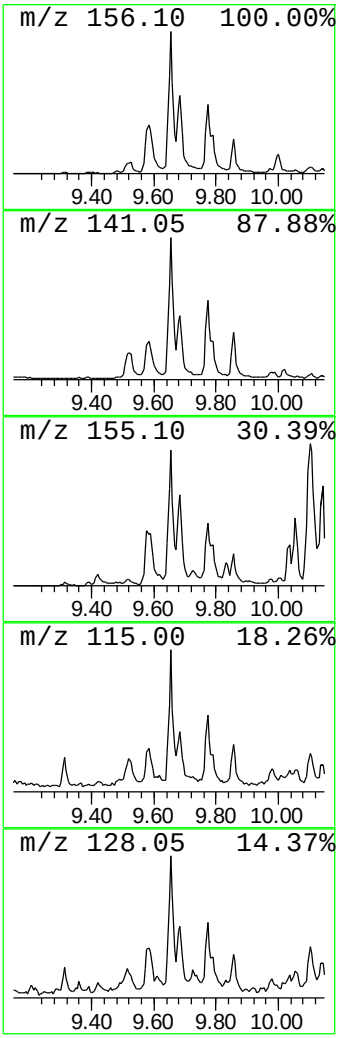
****

Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.65	10.93 ng	623844	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	96





Library Search Compound Report

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Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

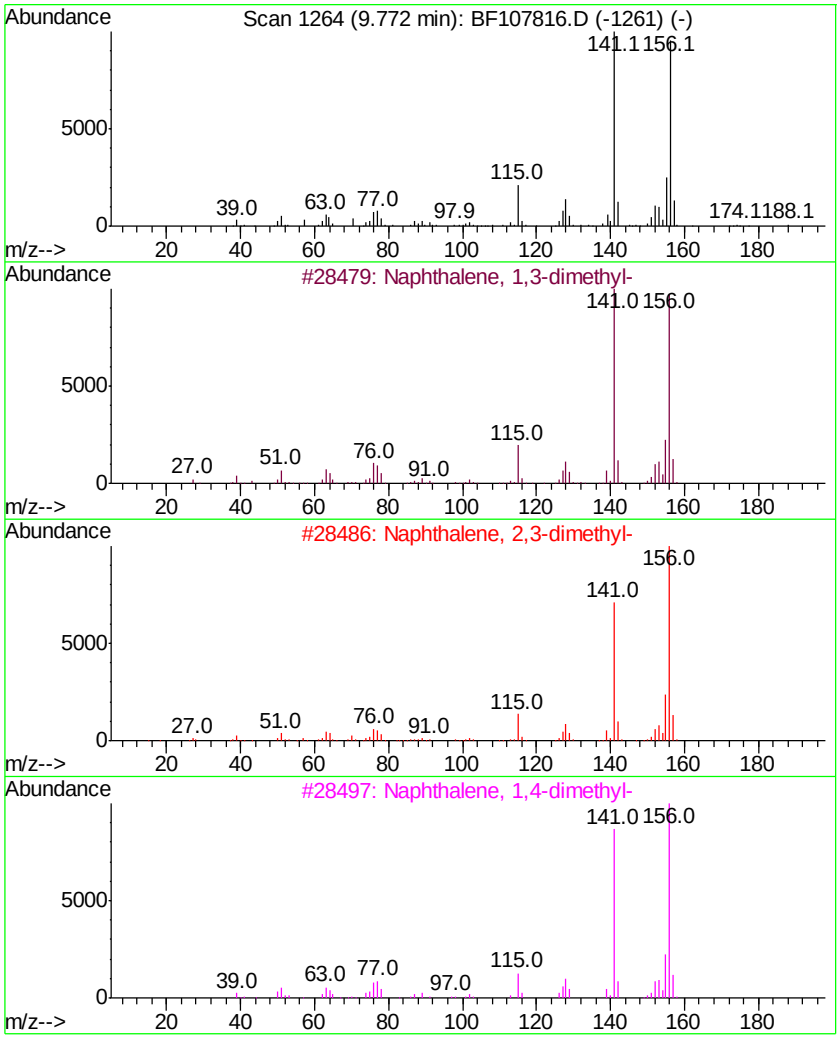
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

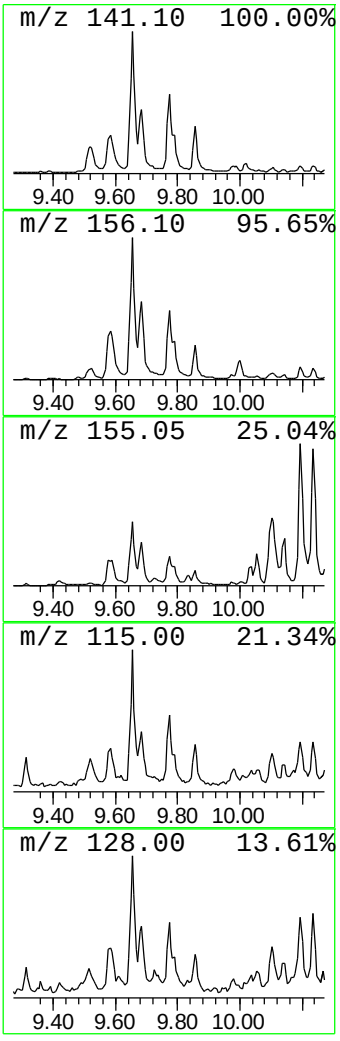
****

Peak Number 5 Naphthalene, 1,3-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.77	6.68 ng	381020	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
3	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95
5	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	95





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Data File : BF107816.D
Acq On : 30 Jul 2018 22:33
Operator : JU/SJ
Sample : J4164-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

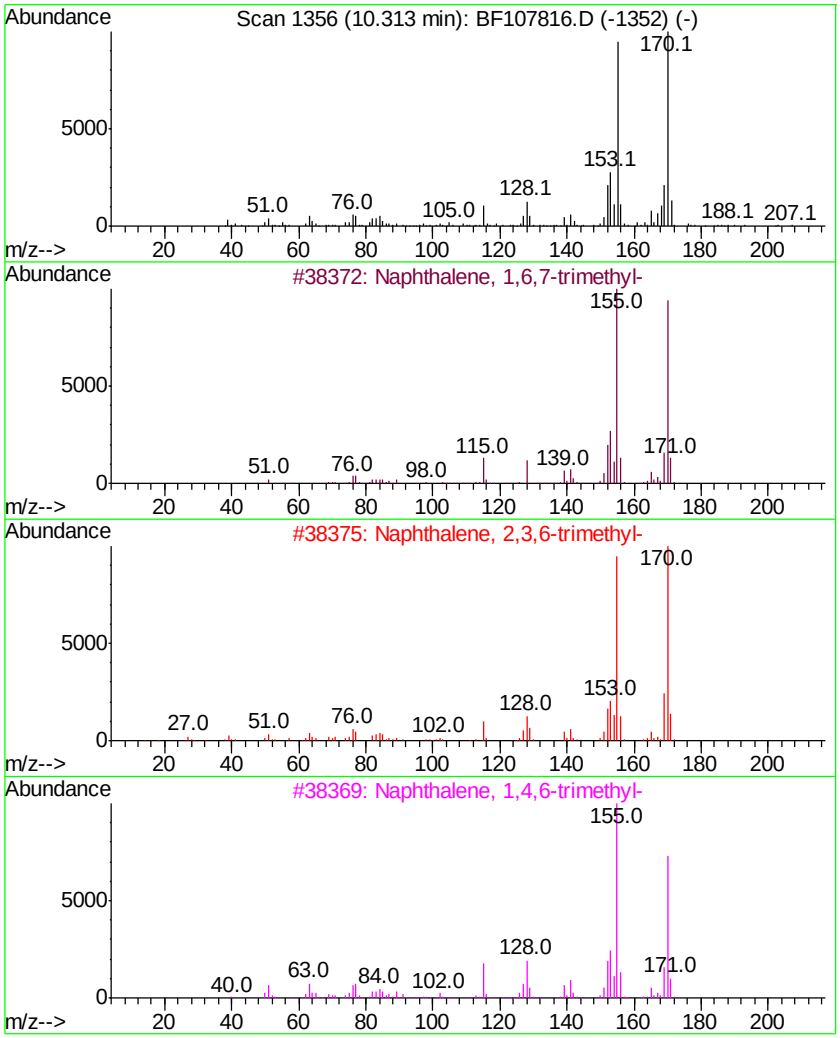
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

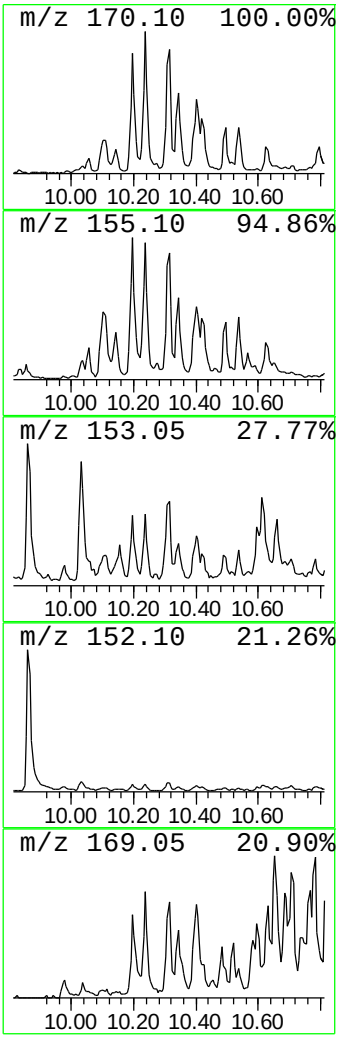
****

Peak Number 6 Naphthalene, 1,6,7-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.31	7.08 ng	403899	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
2	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	96
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	87





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Acq On : 30 Jul 2018 22:33
Operator : JU/SJ
Sample : J4164-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

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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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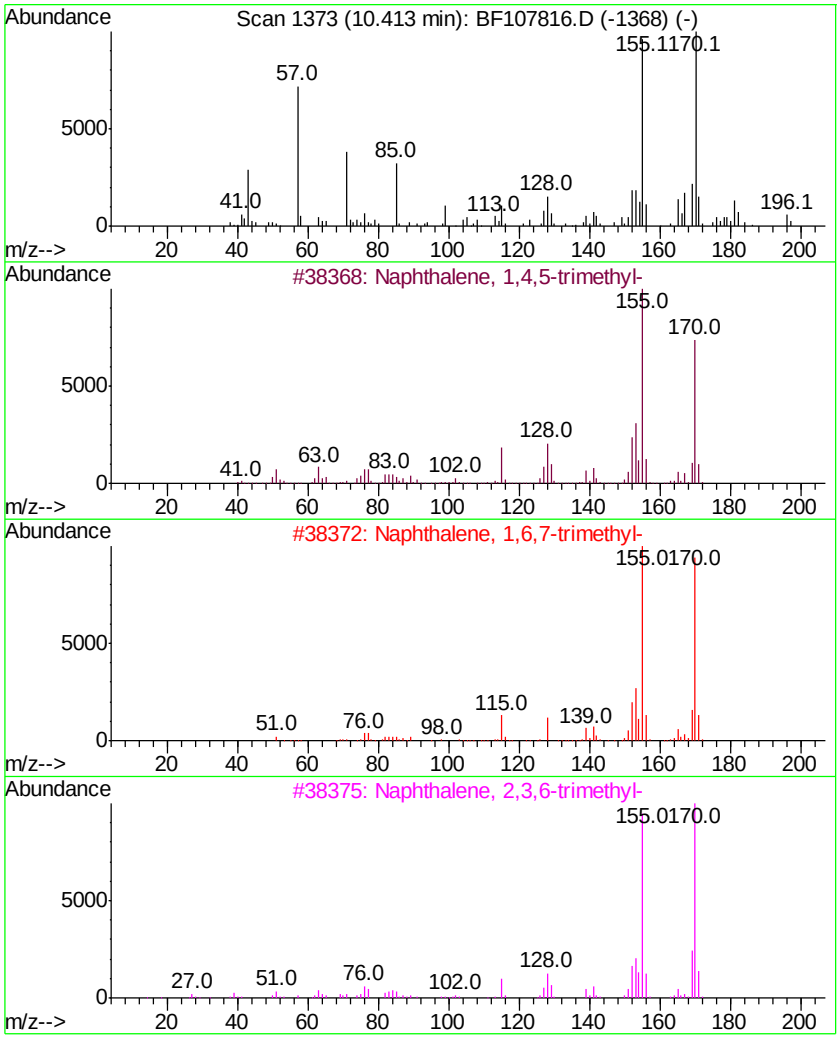
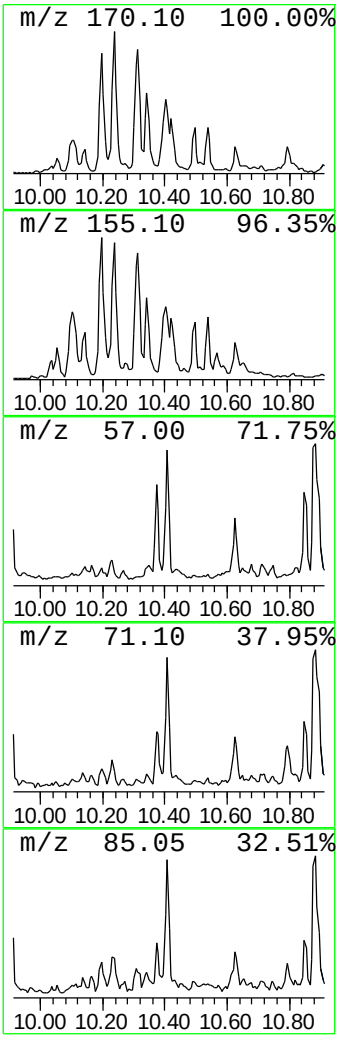
Peak Number 7 Naphthalene, 1,4,5-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.41	8.02 ng	457669	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	96
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96
4	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	93
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	89





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Sample : J4164-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073018.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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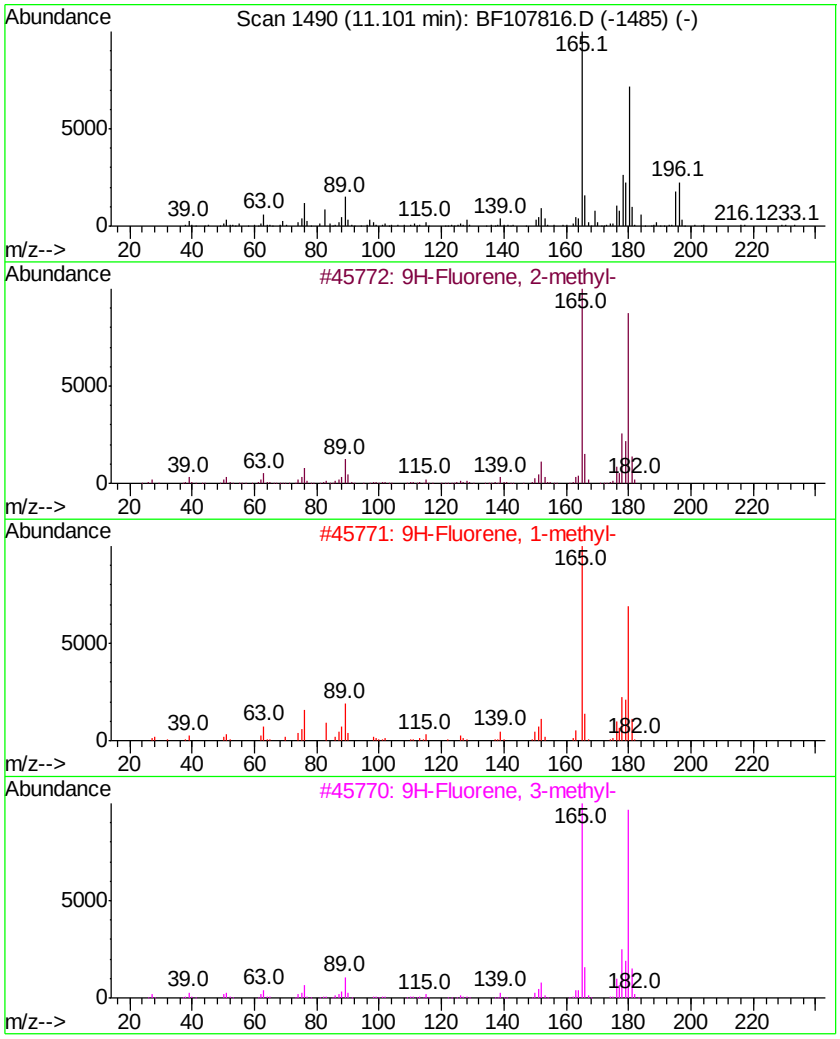
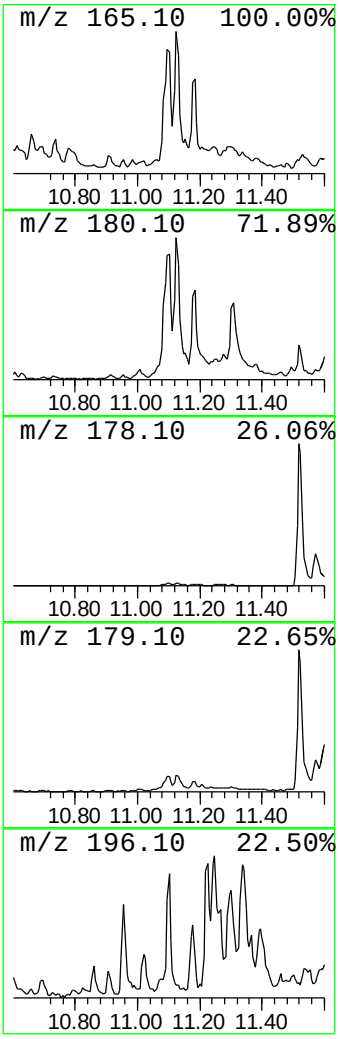
Peak Number 8 9H-Fluorene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.10	8.43 ng	459938	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	91
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	86
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	78





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Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

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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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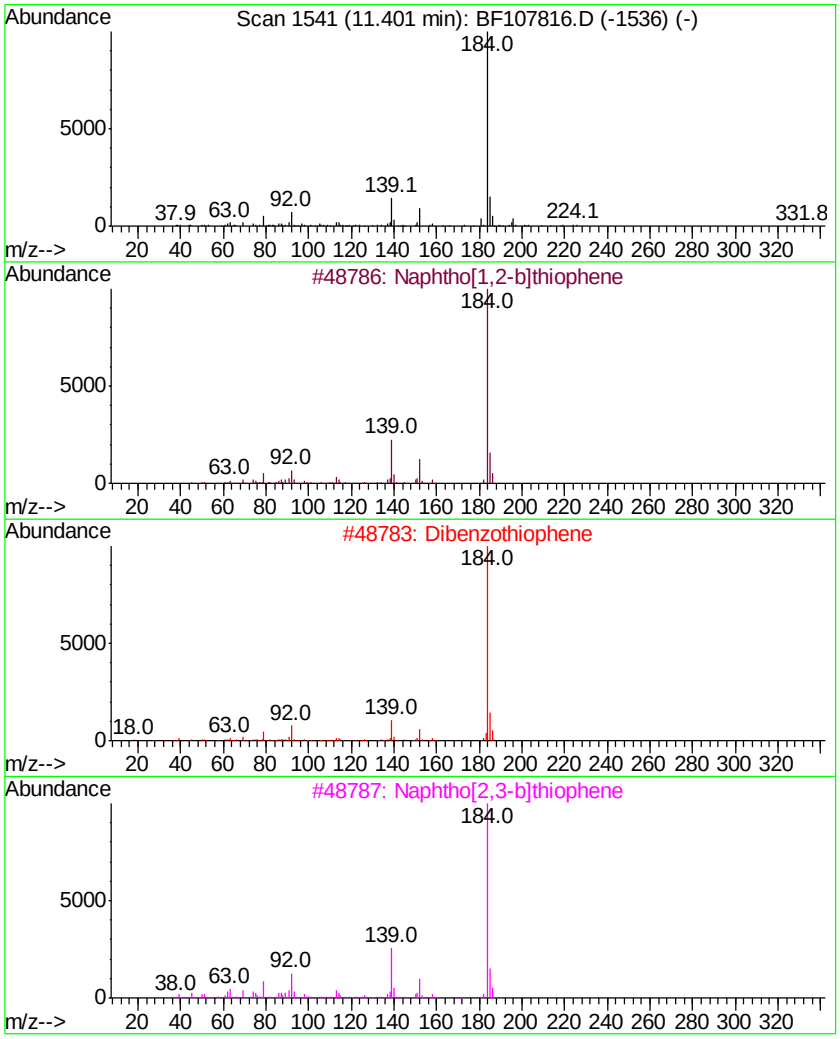
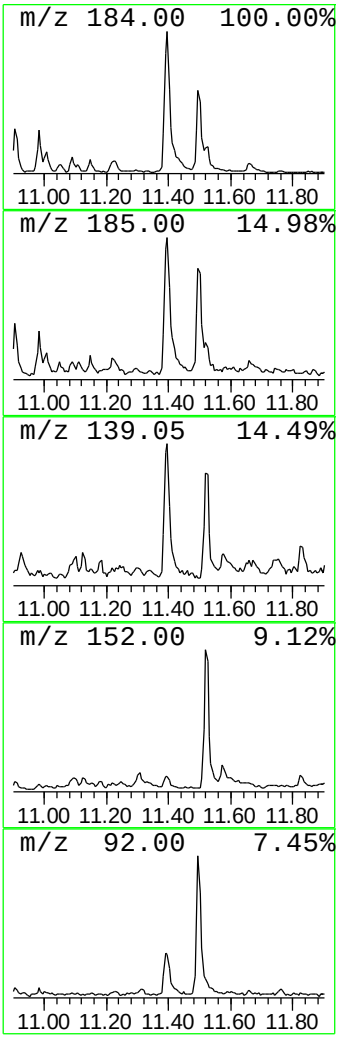
Peak Number 9 Naphtho[1,2-b]thiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.40	7.24 ng	394860	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
2	Dibenzothiophene	184	C12H8S	000132-65-0	93
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	90
5	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	72





Library Search Compound Report

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Sample : J4164-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073018.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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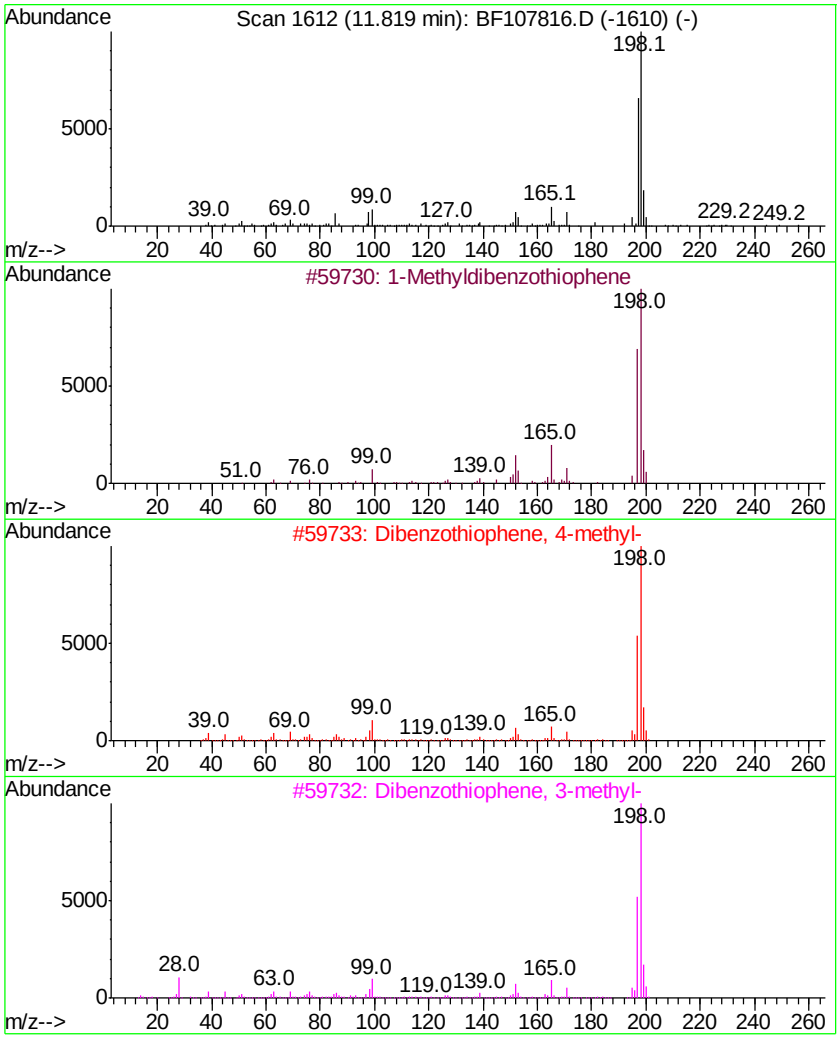
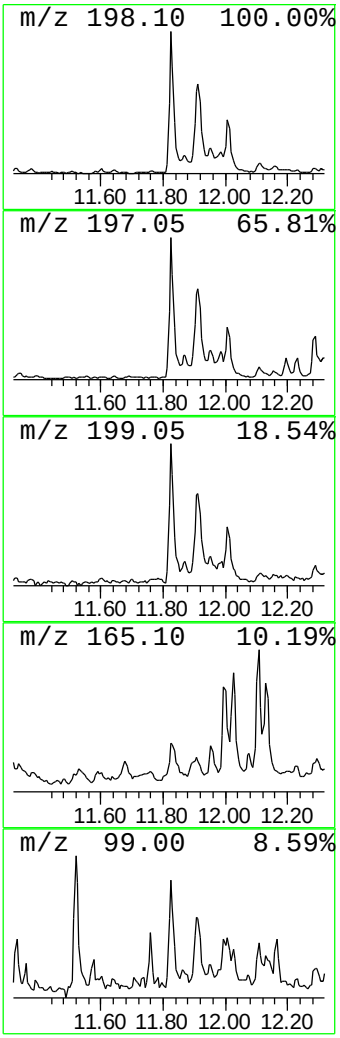
Peak Number 10 1-Methyldibenzothiophene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	8.68 ng	473681	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	97
2	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	94
3	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	91
4	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	90
5	Benzene, 1-fluoro-4-(2-phenyleth...	198	C14H11F	017404-69-2	72





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Operator : JU/SJ
Sample : J4164-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

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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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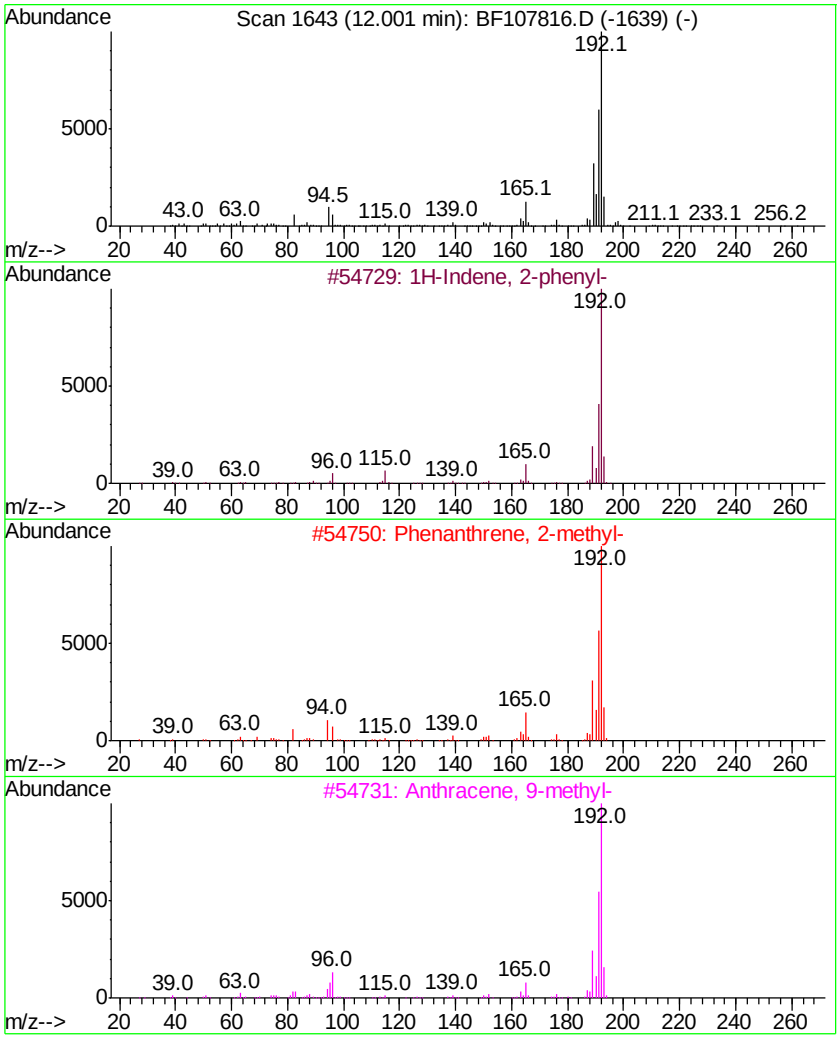
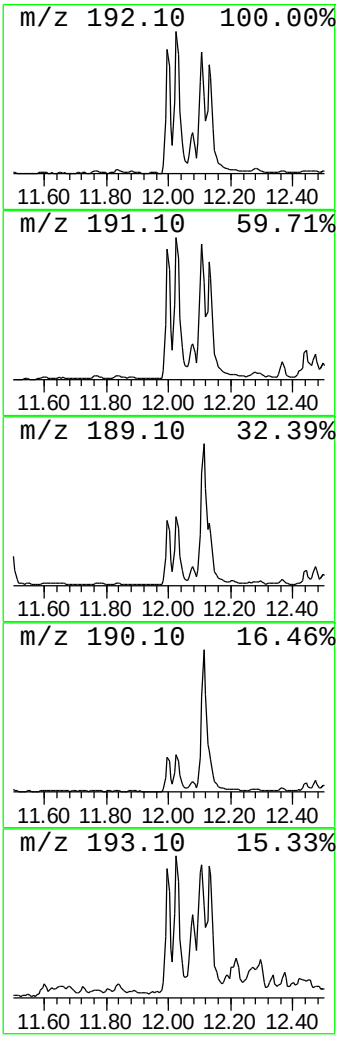
Peak Number 11 1H-Indene, 2-phenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	23.19 ng	1265250	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90





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Operator : JU/SJ
Sample : J4164-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

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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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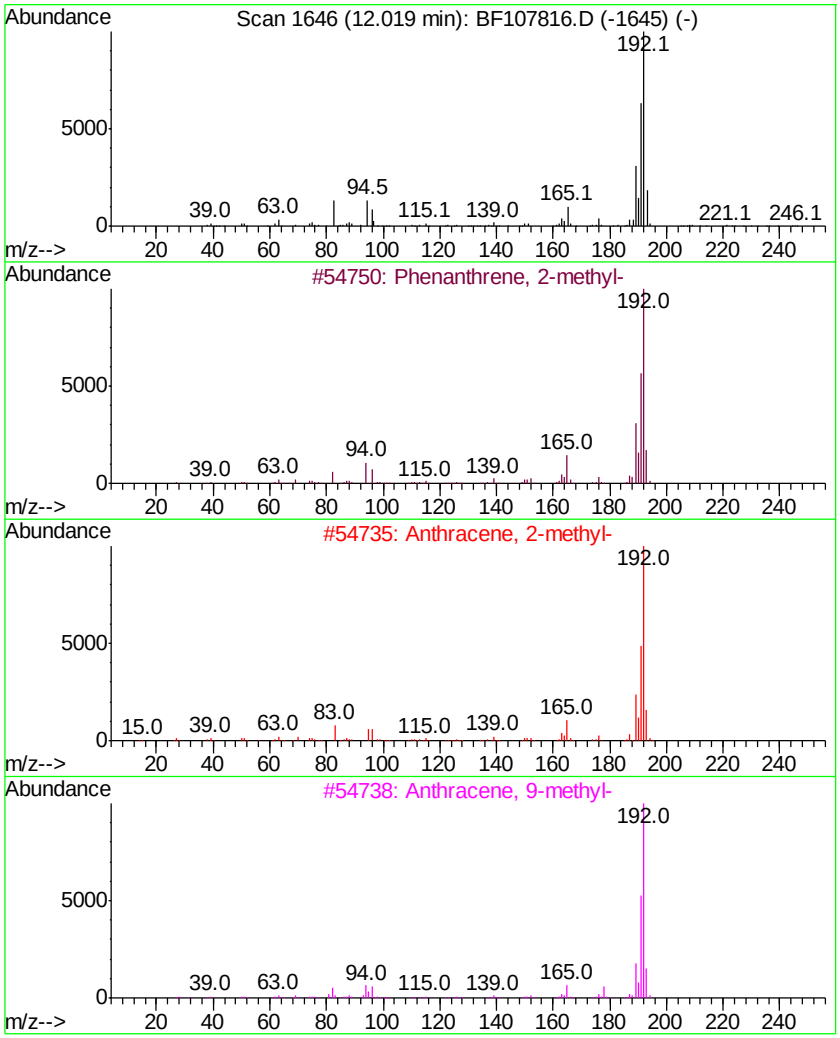
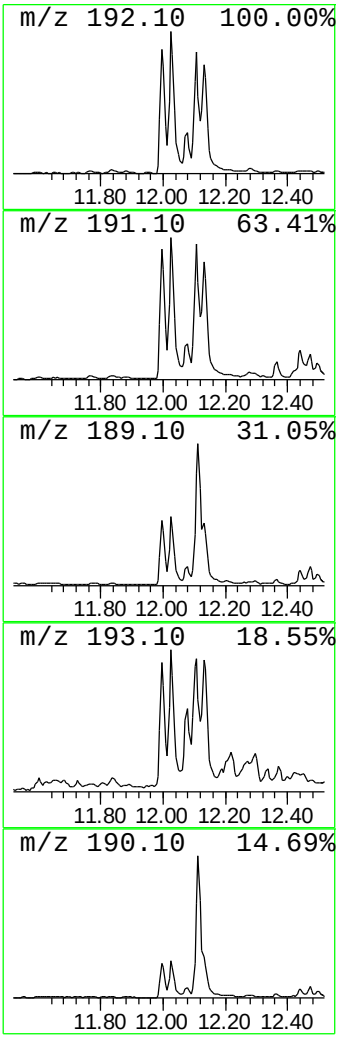
Peak Number 12 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	22.68 ng	1237480	Phenanthrene-d10	11.50

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	94
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	89





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Operator : JU/SJ
Sample : J4164-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

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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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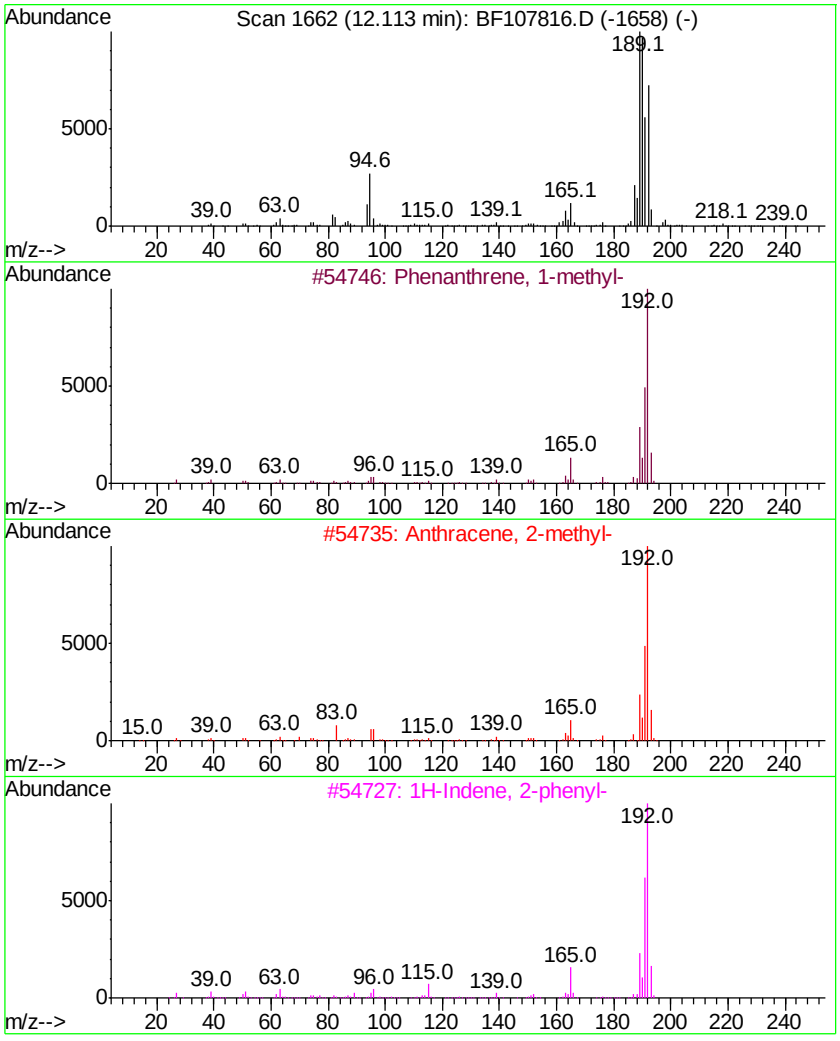
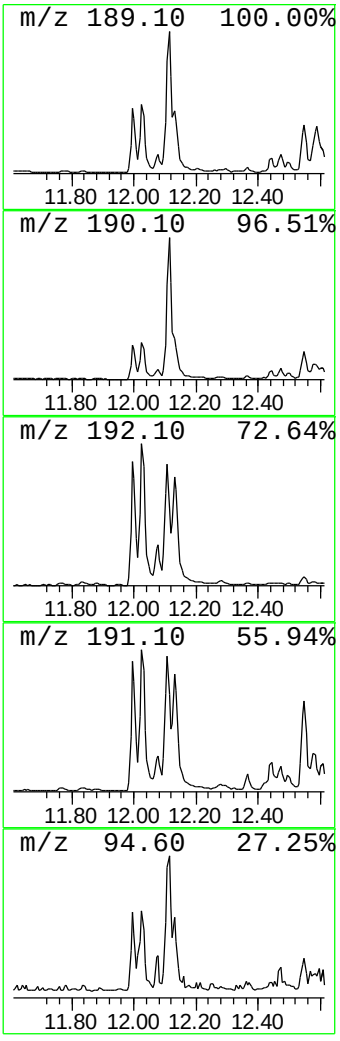
Peak Number 13 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.11	33.32 ng	1817760	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	60
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	60
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	55
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	55
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	55





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Sample : J4164-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

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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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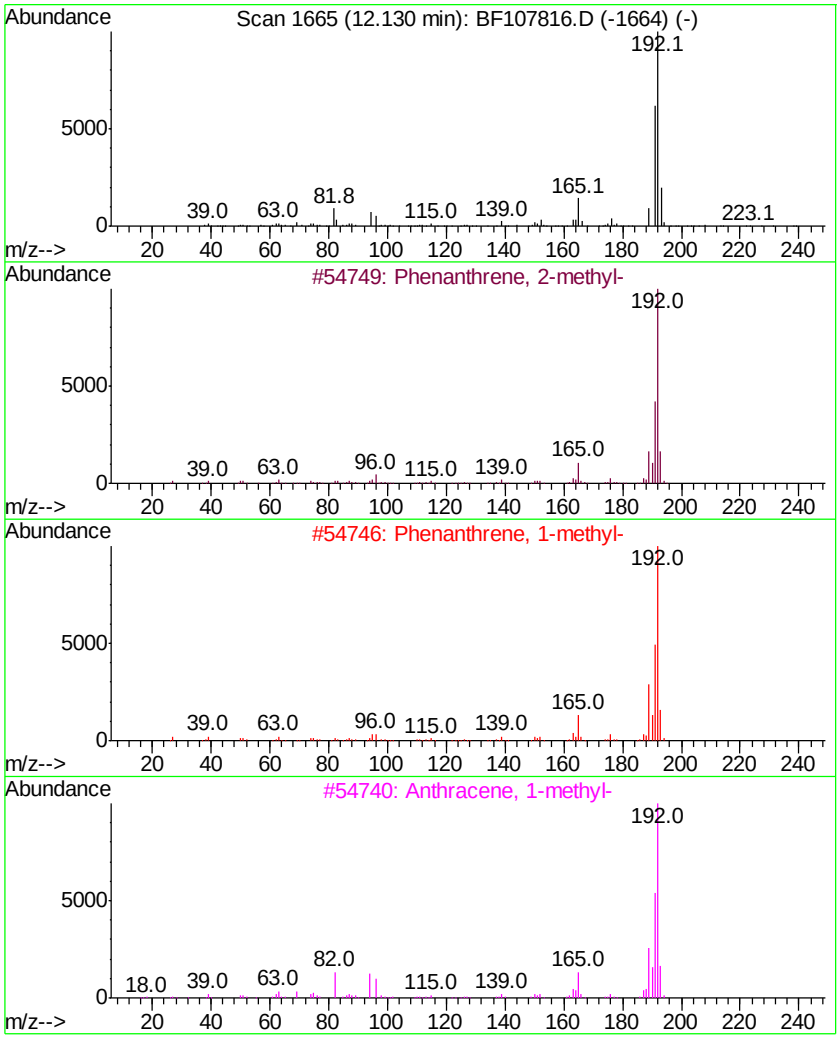
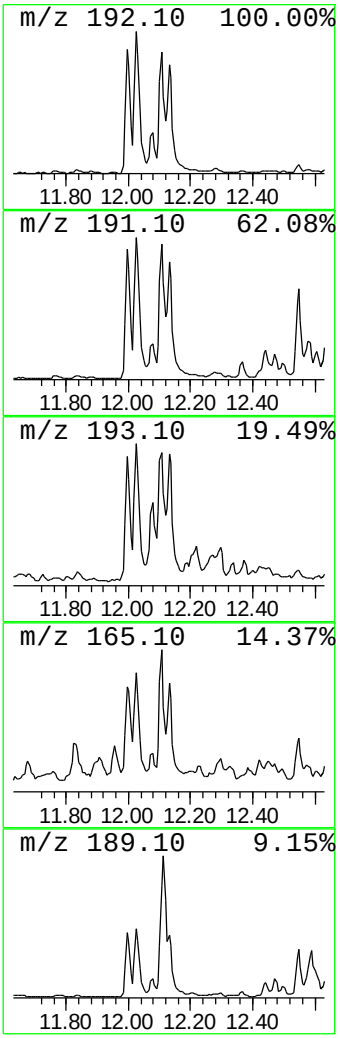
Peak Number 14 Anthracene, 9-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	16.88 ng	920812	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	87
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	87





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ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

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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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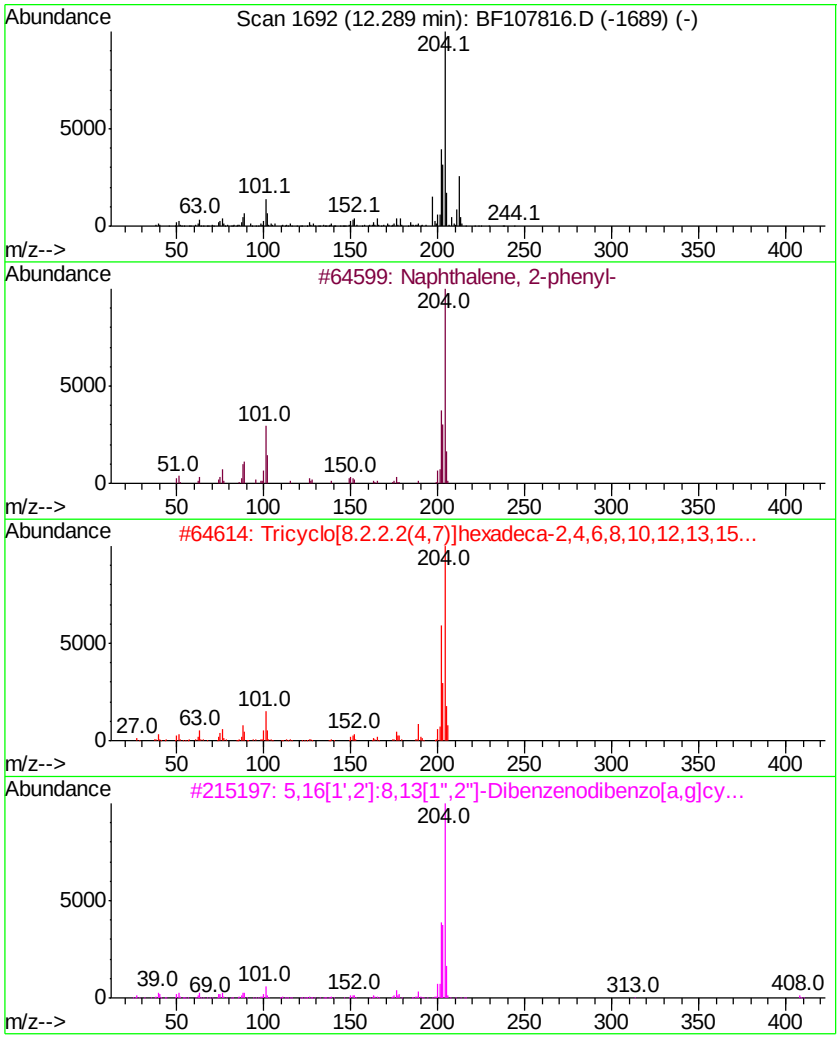
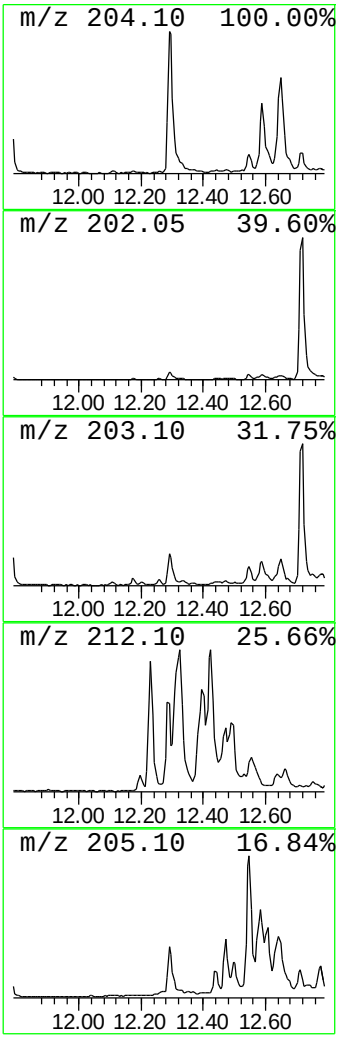
Peak Number 15 Naphthalene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	12.08 ng	658845	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	78
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	60
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	50
4	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	46
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	45





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Misc :
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ClientSampleId : SB-5(3-5)

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TIC Integration Parameters: LSCINT.P

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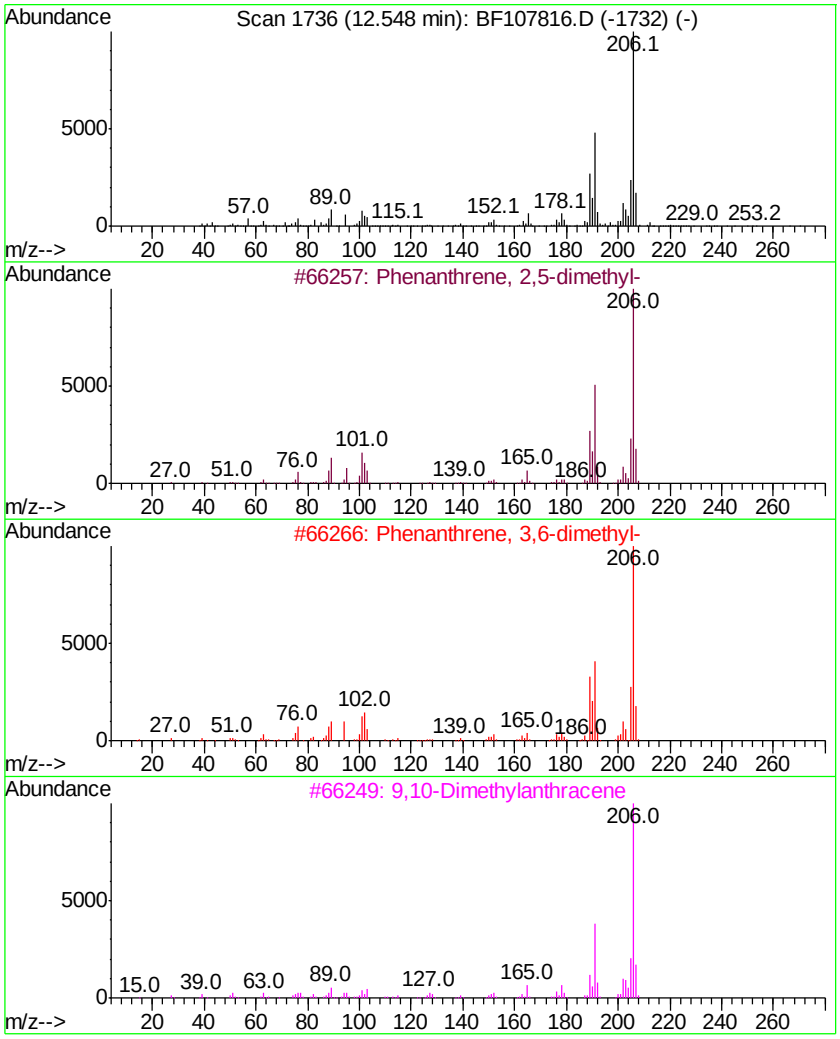
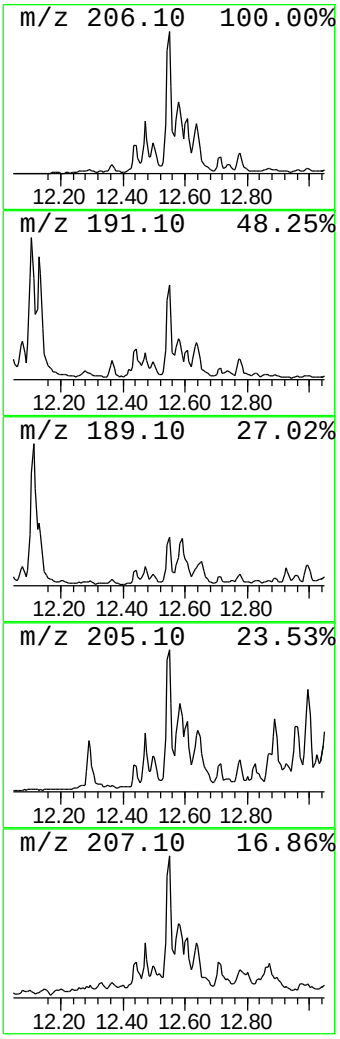
Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.55	27.06 ng	1476290	Phenanthrene-d10	11.50

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	91
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





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ClientSampleId : SB-5(3-5)

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

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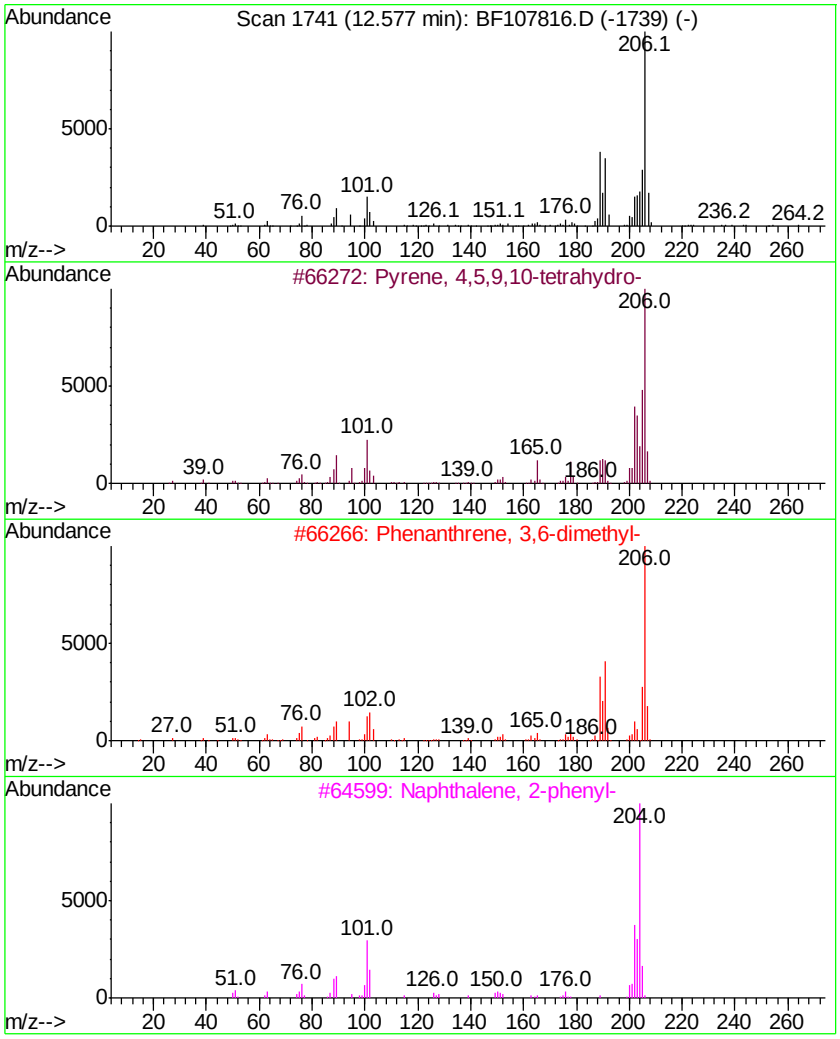
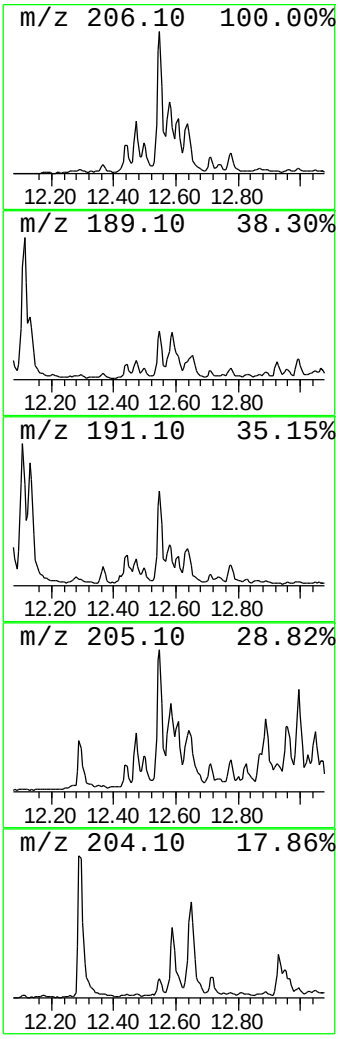
Peak Number 17 unknown12.58 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.58	13.51 ng	737112	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	41
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	38
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	35
4	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	35
5	1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	35





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Data File : BF107816.D
Acq On : 30 Jul 2018 22:33
Operator : JU/SJ
Sample : J4164-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073018.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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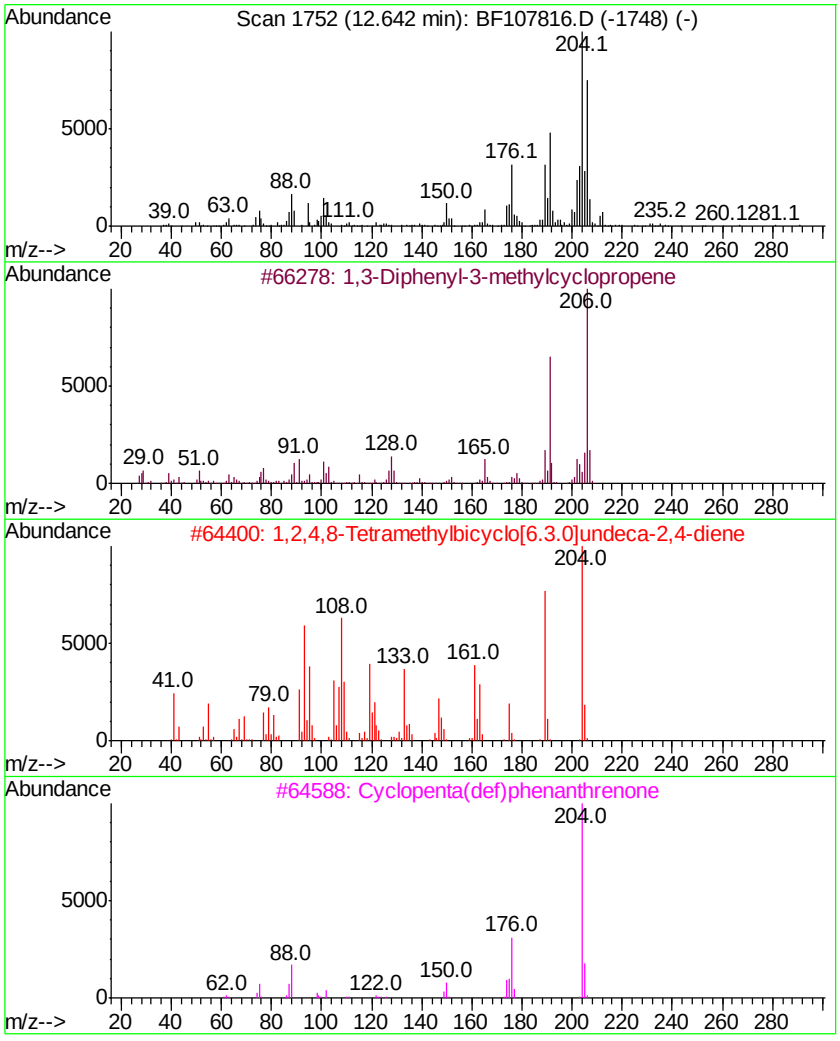
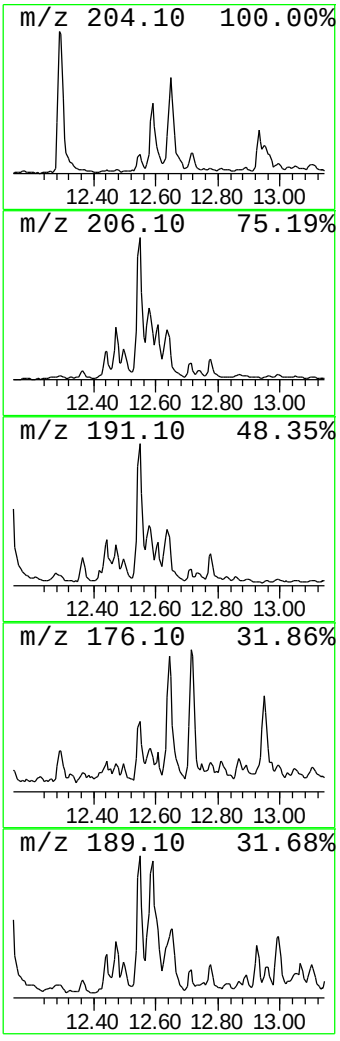
Peak Number 18 1,3-Diphenyl-3-methylcyclop... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.64	19.27 ng	1051280	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	86
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	78
3	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	74
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	64
5	1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	50





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Data File : BF107816.D
Acq On : 30 Jul 2018 22:33
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Sample : J4164-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073018.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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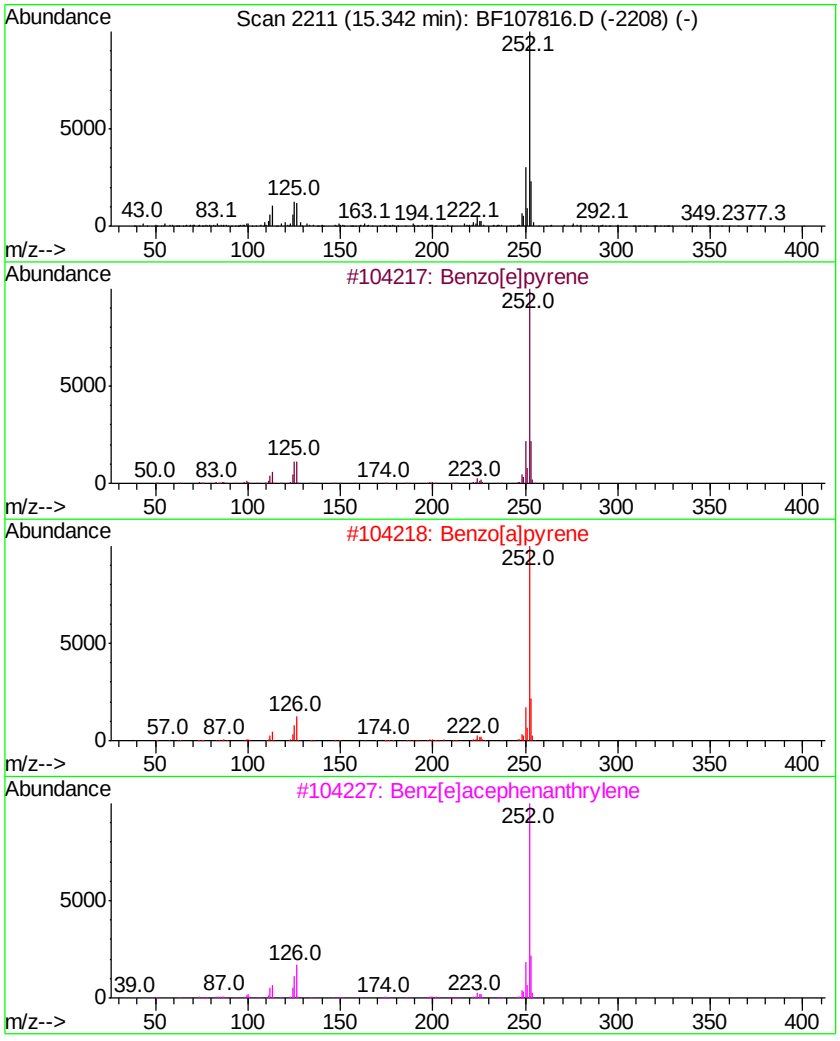
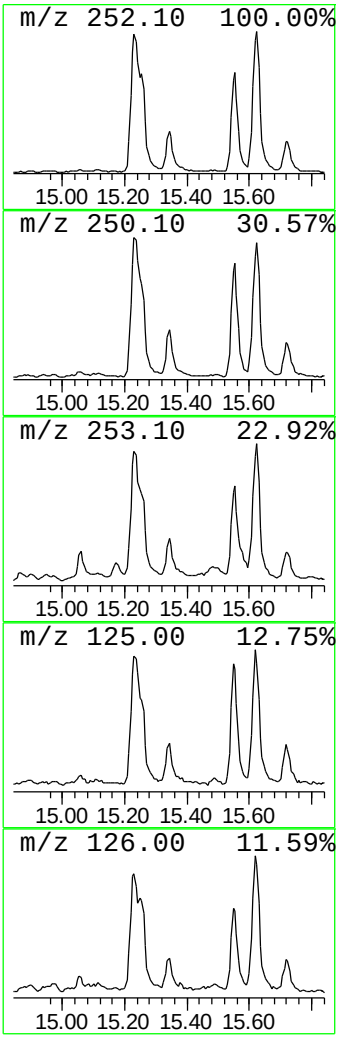
Peak Number 19 Benzo[e]pyrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.34	11.67 ng	444436	Perylene-d12	15.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	94
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	89
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073018\
Data File : BF107816.D
Acq On : 30 Jul 2018 22:33
Operator : JU/SJ
Sample : J4164-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073018.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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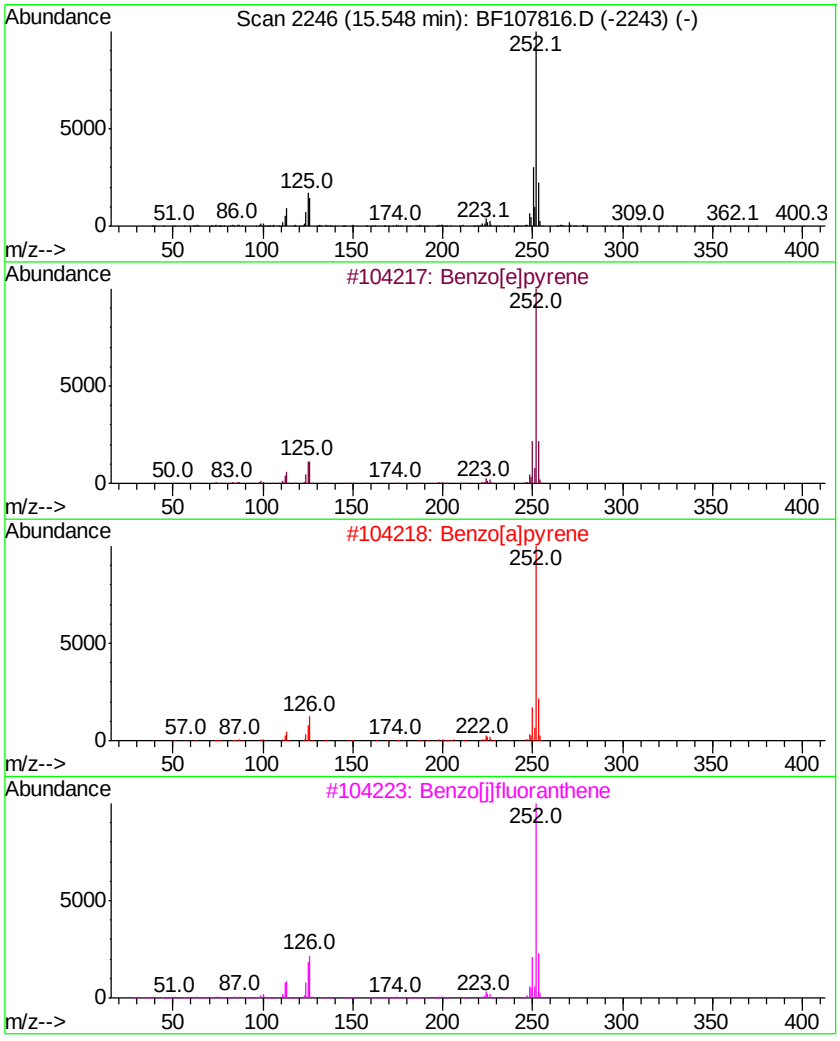
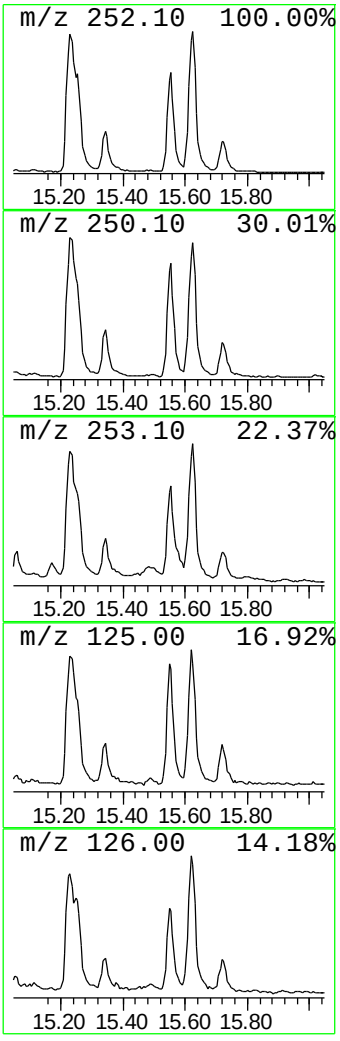
Peak Number 20 Benzo[j]fluoranthene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.55	30.05 ng	1144850	Perylene-d12	15.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benzo[a]pyrene	252	C20H12	000050-32-8	98
3	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF073018\
Data File : BF107816.D
Acq On : 30 Jul 2018 22:33
Operator : JU/SJ
Sample : J4164-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-5(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073018.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
2-Pentanone, 4-hy...	5.20	11.5	ng	676586	1	6.96	1179010	20.0
unknown6.74	6.74	72.3	ng	4258900	1	6.96	1179010	20.0
Naphthalene, 2,3-...	9.65	10.9	ng	623844	3	10.00	1141200	20.0
Naphthalene, 1,3-...	9.77	6.7	ng	381020	3	10.00	1141200	20.0
Naphthalene, 1,6,...	10.31	7.1	ng	403899	3	10.00	1141200	20.0
Naphthalene, 1,4,...	10.41	8.0	ng	457669	3	10.00	1141200	20.0
9H-Fluorene, 2-me...	11.10	8.4	ng	459938	4	11.50	1091260	20.0
Naphtho[1,2-b]thi...	11.40	7.2	ng	394860	4	11.50	1091260	20.0
1-Methyldibenzoth...	11.82	8.7	ng	473681	4	11.50	1091260	20.0
1H-Indene, 2-phenyl-	12.00	23.2	ng	1265250	4	11.50	1091260	20.0
Phenanthrene, 2-m...	12.02	22.7	ng	1237480	4	11.50	1091260	20.0
Phenanthrene, 1-m...	12.11	33.3	ng	1817760	4	11.50	1091260	20.0
Anthracene, 9-met...	12.13	16.9	ng	920812	4	11.50	1091260	20.0
Naphthalene, 2-ph...	12.29	12.1	ng	658845	4	11.50	1091260	20.0
Phenanthrene, 2,5...	12.55	27.1	ng	1476290	4	11.50	1091260	20.0
unknown12.58	12.58	13.5	ng	737112	4	11.50	1091260	20.0
1,3-Diphenyl-3-me...	12.64	19.3	ng	1051280	4	11.50	1091260	20.0
Benzo[e]pyrene	15.34	11.7	ng	444436	6	15.69	761953	20.0
Benzo[j]fluoranthene	15.55	30.1	ng	1144850	6	15.69	761953	20.0