LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
Data File : BF107710.D
Acq On : 26 Jul 2018 19:59
Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(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-BF072018.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	6.960	783	786	809	rBV	491570	904864	6.07%	0.534%
2	7.219	826	830	851	rBV	567439	840105	5.63%	0.496%
3	8.025	964	967	979	rVB4	115858	288703	1.94%	0.170%
4	8.283	1000	1011	1016	rBV2	7418932	13822553	92.67%	8.161%
5	8.325	1016	1018	1032	rVB	547696	931028	6.24%	0.550%
6	8.960	1121	1126	1133	rVV	4960659	5599745	37.54%	3.306%
7	9.013	1133	1135	1138	rVV	263821	339559	2.28%	0.200%
8	9.060	1138	1143	1166	rVB	2836695	3486126	23.37%	2.058%
9	9.313	1179	1186	1195	rBV2	164722	280927	1.88%	0.166%
10	9.419	1201	1204	1214	rBV	1314307	1504039	10.08%	0.888%
11	9.583	1227	1232	1240	rBV	968003	1546139	10.37%	0.913%
12	9.654	1240	1244	1247	rVV	1204892	1400889	9.39%	0.827%
13	9.683	1247	1249	1254	rVV	880657	893592	5.99%	0.528%
14	9.777	1260	1265	1274	rVB2	548418	898667	6.02%	0.531%
15	9.866	1276	1280	1286	rBV	3047851	3202996	21.47%	1.891%
16	9.977	1296	1299	1301	rBV	621741	597454	4.01%	0.353%
17	10.001	1301	1303	1306	rVV2	1300244	1260844	8.45%	0.744%
18	10.036	1306	1309	1314	rVV	1723339	1642822	11.01%	0.970%
19	10.213	1334	1339	1343	rBV	4047104	4716605	31.62%	2.785%
20	10.313	1353	1356	1359	rBV	336420	380119	2.55%	0.224%
21	10.342	1359	1361	1368	rVB	216582	257826	1.73%	0.152%
22	10.407	1368	1372	1378	rVB2	250334	403514	2.71%	0.238%
23	10.460	1378	1381	1385	rBV2	269369	349112	2.34%	0.206%
24	10.560	1394	1398	1404	rBV	5546499	6778136	45.44%	4.002%
25	10.707	1419	1423	1427	rBV	1015650	965411	6.47%	0.570%
26	10.789	1432	1437	1443	rBV2	1334368	2259555	15.15%	1.334%
27	10.836	1443	1445	1451	rVB2	253850	295041	1.98%	0.174%
28	11.101	1485	1490	1493	rBV	988939	1286931	8.63%	0.760%
29	11.130	1493	1495	1501	rVB	391350	398187	2.67%	0.235%
30	11.183	1501	1504	1507	rBV	421539	370362	2.48%	0.219%
31	11.224	1508	1511	1513	rVV	274442	260990	1.75%	0.154%
32	11.248	1513	1515	1521	rVV2	287279	346454	2.32%	0.205%
33	11.307	1521	1525	1528	rVV2	196156	232702	1.56%	0.137%
34	11.336	1528	1530	1537	rVV	309655	340394	2.28%	0.201%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
Data File : BF107710.D
Acq On : 26 Jul 2018 19:59
Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(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-BF072018.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.395	1537	1540	1551	rVB	1233259	1441175	9.66%	0.851%
36	11.542	1554	1565	1568	rBV2	7433481	14915921	100.00%	8.806%
37	11.583	1568	1572	1583	rVV	4467660	5330678	35.74%	3.147%
38	11.736	1592	1598	1604	rBV	1771926	2364890	15.85%	1.396%
39	11.789	1604	1607	1609	rVV	355154	374225	2.51%	0.221%
40	11.830	1612	1614	1619	rVB3	266628	357228	2.39%	0.211%
41	11.913	1625	1628	1633	rVB	207707	287347	1.93%	0.170%
42	12.001	1639	1643	1645	rBV	1834807	1833690	12.29%	1.083%
43	12.030	1645	1648	1653	rVV	2297849	2403132	16.11%	1.419%
44	12.077	1653	1656	1659	rVV	821748	836188	5.61%	0.494%
45	12.118	1659	1663	1670	rVB2	3251833	4664203	31.27%	2.754%
46	12.295	1690	1693	1697	rVV	1108809	1157578	7.76%	0.683%
47	12.548	1733	1736	1739	rBV	586549	739582	4.96%	0.437%
48	12.589	1739	1743	1745	rVV2	421052	537088	3.60%	0.317%
49	12.648	1749	1753	1760	rVB4	282910	563619	3.78%	0.333%
50	12.730	1761	1767	1770	rBV	6387863	9190093	61.61%	5.426%
51	12.813	1778	1781	1788	rVB	1079622	1070564	7.18%	0.632%
52	12.871	1788	1791	1793	rBV2	293170	295710	1.98%	0.175%
53	12.960	1798	1806	1810	rBV2	5651998	8809494	59.06%	5.201%
54	12.995	1810	1812	1816	rVV	544996	570239	3.82%	0.337%
55	13.065	1820	1824	1828	rVV2	622297	781143	5.24%	0.461%
56	13.107	1828	1831	1836	rVB	374307	475061	3.18%	0.280%
57	13.165	1836	1841	1845	rBV2	612531	1097657	7.36%	0.648%
58	13.207	1845	1848	1852	rVV2	203737	272670	1.83%	0.161%
59	13.277	1856	1860	1864	rVV	2002154	2398515	16.08%	1.416%
60	13.342	1868	1871	1874	rVV	2162872	2272007	15.23%	1.341%
61	13.377	1874	1877	1884	rVV2	905937	1373128	9.21%	0.811%
62	13.442	1884	1888	1890	rVV2	173652	269218	1.80%	0.159%
63	13.471	1890	1893	1896	rVV	500979	577118	3.87%	0.341%
64	13.507	1896	1899	1906	rVB2	563297	841265	5.64%	0.497%
65	13.754	1938	1941	1944	rBV2	322408	407085	2.73%	0.240%
66	13.783	1944	1946	1951	rVB3	197180	249113	1.67%	0.147%
67	13.895	1962	1965	1967	rBV	423411	427173	2.86%	0.252%
68	13.924	1967	1970	1972	rVV	737374	784572	5.26%	0.463%
69	13.948	1972	1974	1981	rVB3	500195	791995	5.31%	0.468%
70	14.065	1990	1994	2000	rBV	178714	324831	2.18%	0.192%
71	14.148	2000	2008	2011	rVV2	3920529	6662578	44.67%	3.934%

LSC Area Percent Report

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Acq On : 26 Jul 2018 19:59
Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(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-BF072018.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.183	2011	2014	2020	rVV	3243556	3980674	26.69%	2.350%
73	14.254	2024	2026	2029	rVV	286794	386407	2.59%	0.228%
74	14.301	2031	2034	2040	rVV4	571753	1032183	6.92%	0.609%
75	14.360	2040	2044	2046	rVV2	371659	691038	4.63%	0.408%
76	14.383	2046	2048	2059	rVV	508918	859817	5.76%	0.508%
77	14.495	2064	2067	2069	rVV2	344630	418108	2.80%	0.247%
78	14.530	2069	2073	2077	rVV	928936	1550665	10.40%	0.916%
79	14.565	2077	2079	2083	rVV	524642	632094	4.24%	0.373%
80	14.612	2084	2087	2088	rVV3	304430	350894	2.35%	0.207%
81	14.636	2088	2091	2093	rVV	621620	761267	5.10%	0.449%
82	14.665	2093	2096	2097	rVV	566058	623986	4.18%	0.368%
83	14.683	2097	2099	2104	rVV	756555	941231	6.31%	0.556%
84	14.736	2105	2108	2114	rVB2	257663	419677	2.81%	0.248%
85	14.865	2127	2130	2132	rBV4	166918	232437	1.56%	0.137%
86	15.054	2158	2162	2169	rBV2	215054	354242	2.37%	0.209%
87	15.236	2186	2193	2195	rBV	2429140	4350311	29.17%	2.568%
88	15.342	2207	2211	2218	rBV	787077	963178	6.46%	0.569%
89	15.436	2223	2227	2228	rBV2	174701	222212	1.49%	0.131%
90	15.554	2242	2247	2253	rVB	1392243	2134288	14.31%	1.260%
91	15.630	2253	2260	2265	rBV	2295564	3592266	24.08%	2.121%
92	15.683	2266	2269	2272	rVV	637450	895015	6.00%	0.528%
93	15.718	2272	2275	2283	rVB2	705732	1092404	7.32%	0.645%
94	15.871	2296	2301	2303	rBV2	205530	358318	2.40%	0.212%
95	16.283	2366	2371	2381	rVB2	313243	642967	4.31%	0.380%
96	16.442	2394	2398	2409	rBV3	124509	298083	2.00%	0.176%
97	17.259	2529	2537	2547	rBV2	861010	2178201	14.60%	1.286%
98	17.448	2563	2569	2574	rBV	196000	436498	2.93%	0.258%
99	17.742	2611	2619	2634	rBV	520093	1446640	9.70%	0.854%
100	17.989	2657	2661	2676	rVB2	217072	700853	4.70%	0.414%

Sum of corrected areas: 169376118

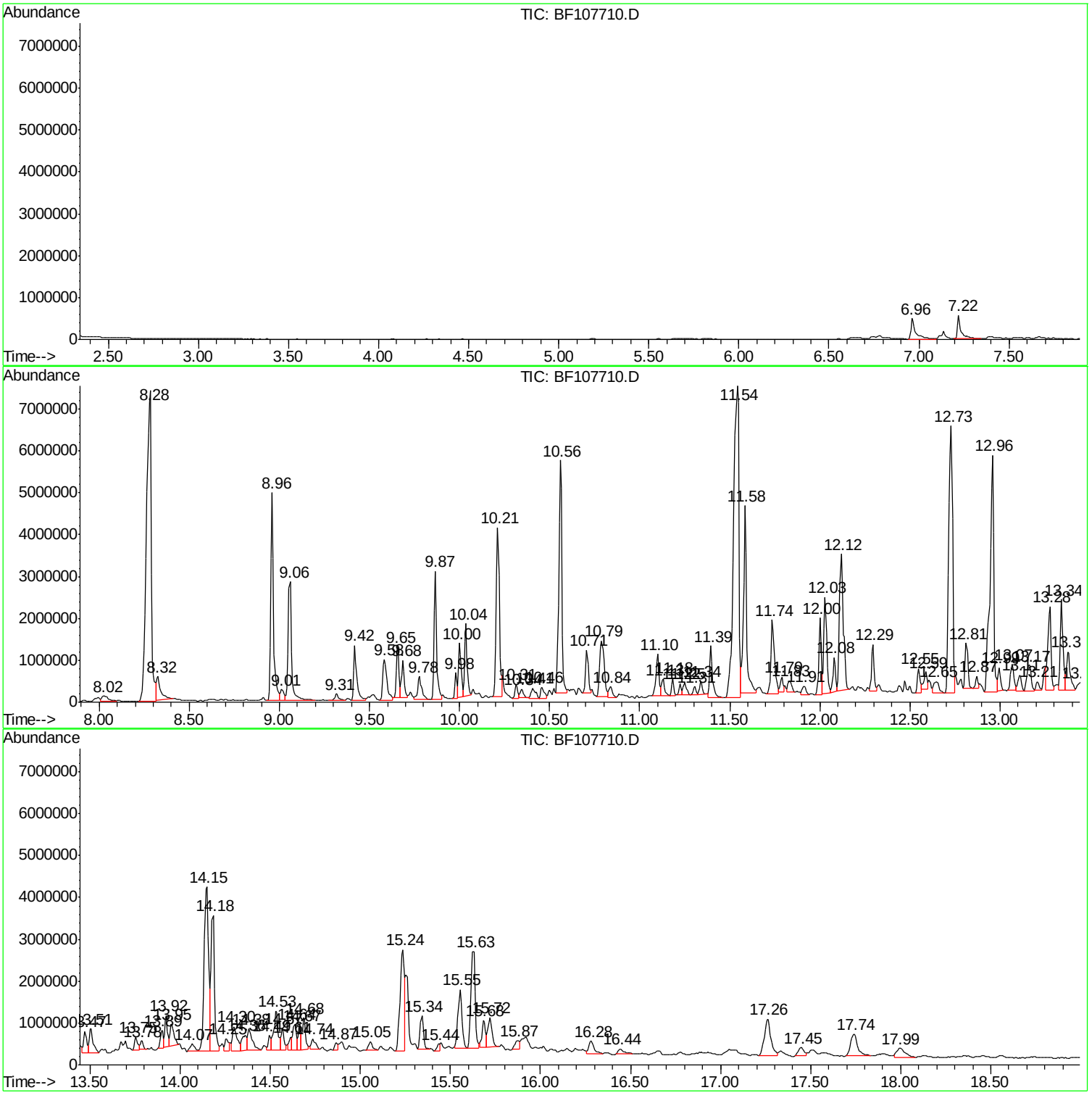
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
Data File : BF107710.D
Acq On : 26 Jul 2018 19:59
Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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\BF072618\
Data File : BF107710.D
Acq On : 26 Jul 2018 19:59
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Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

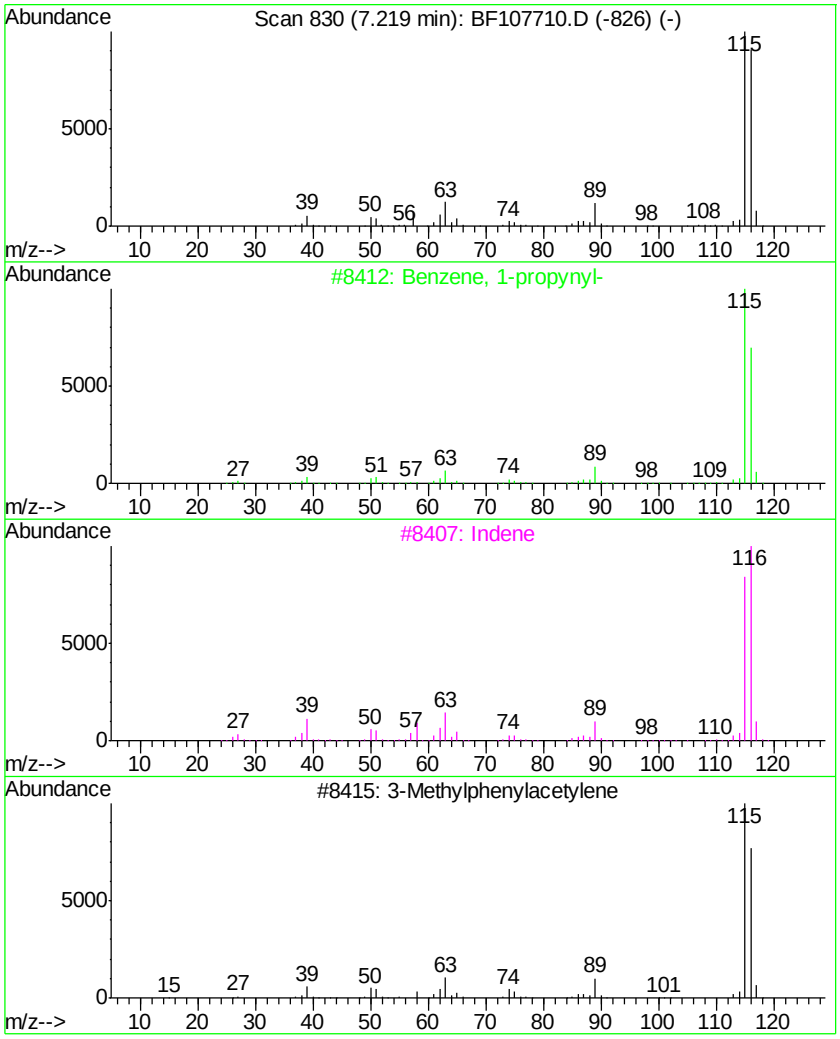
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

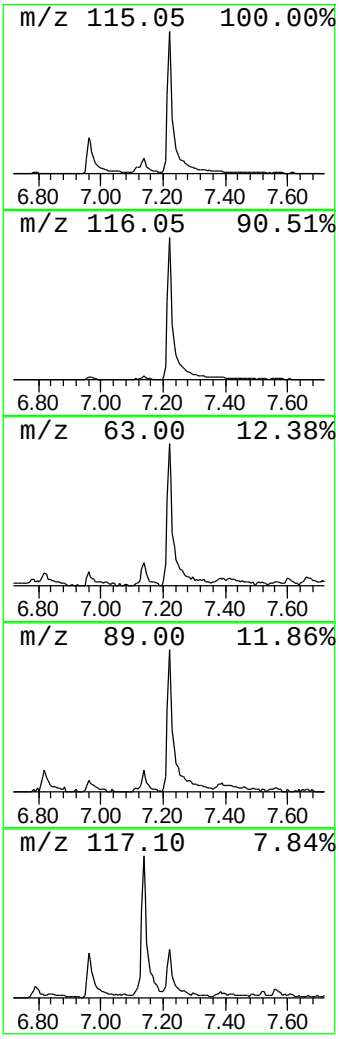
****

Peak Number 1 Benzene, 1-propynyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.22	18.57 ng	840105	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-propynyl-	116	C9H8	000673-32-5	95
2	Indene	116	C9H8	000095-13-6	95
3	3-Methylphenylacetylene	116	C9H8	000766-82-5	94
4	Benzene, 1,2-propadienyl-	116	C9H8	002327-99-3	91
5	Benzene, 1-ethynyl-4-methyl-	116	C9H8	000766-97-2	91





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
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Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

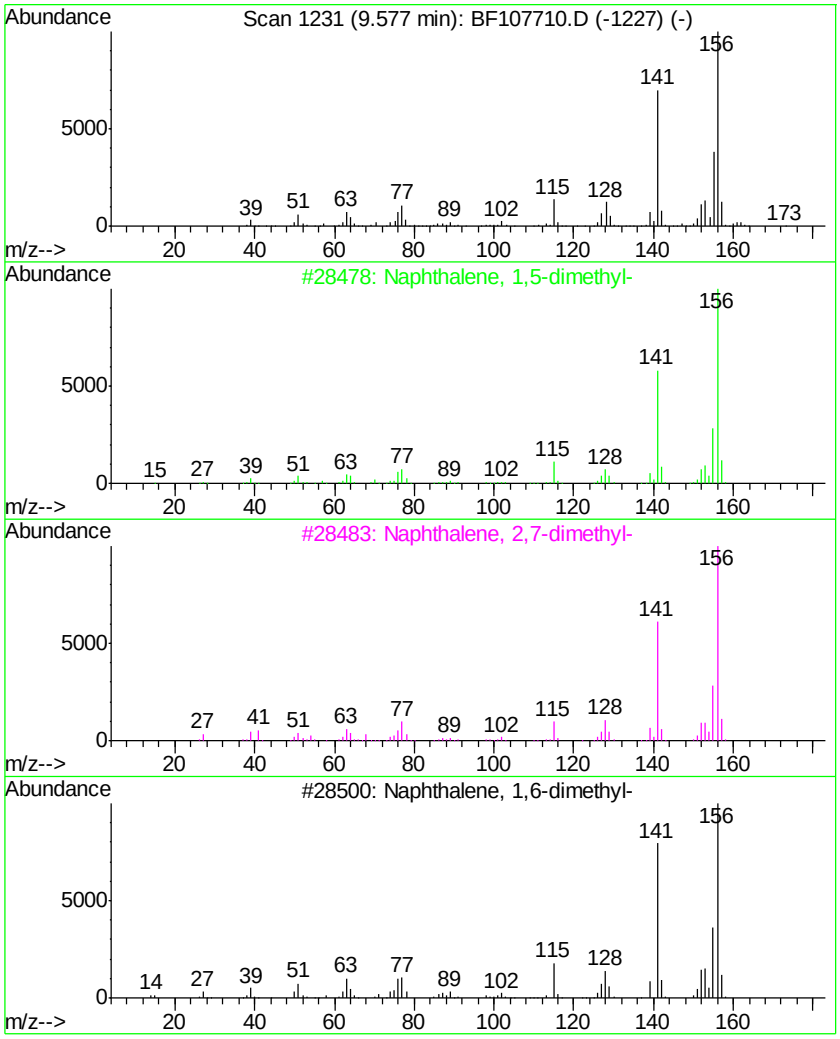
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

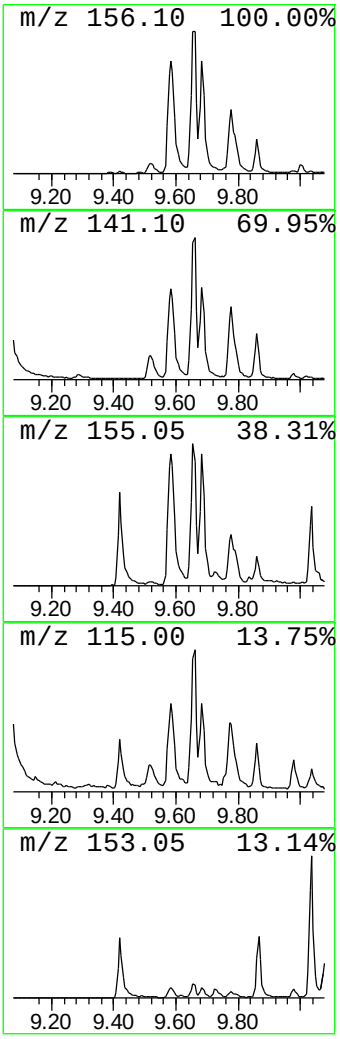
****

Peak Number 2 Naphthalene, 1,5-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.58	24.53 ng	1546140	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96





Library Search Compound Report

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Misc :
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Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
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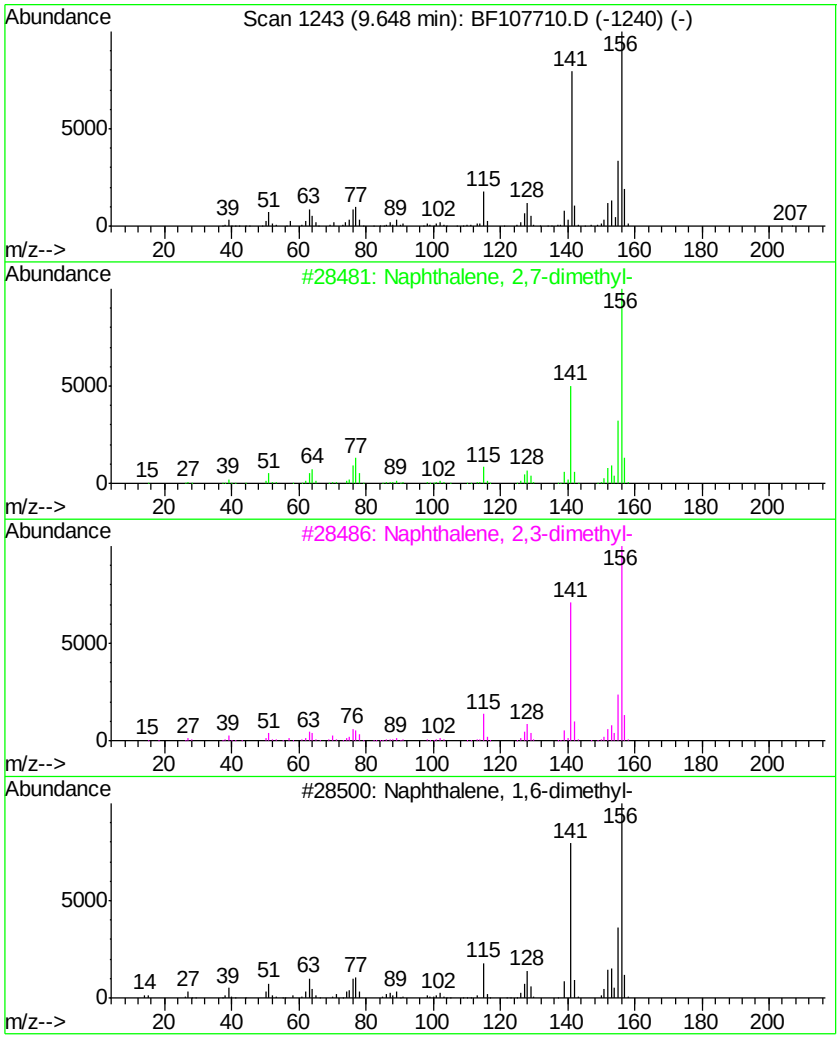
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

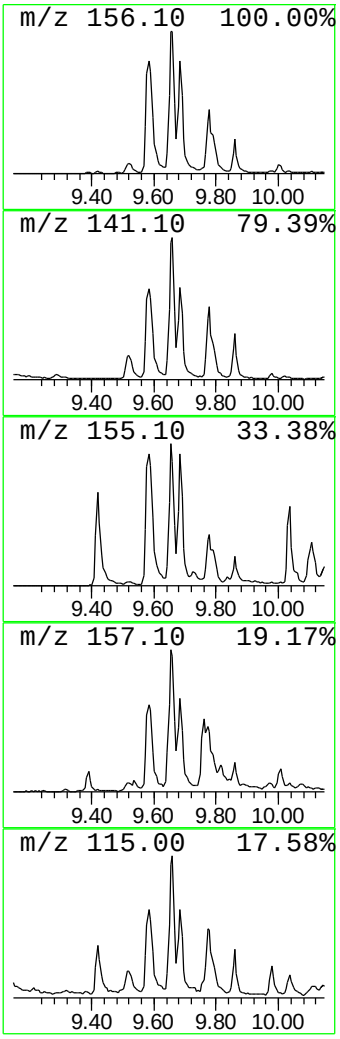
****

Peak Number 3 Naphthalene, 2,7-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.65	22.22 ng	1400890	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
Data File : BF107710.D
Acq On : 26 Jul 2018 19:59
Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

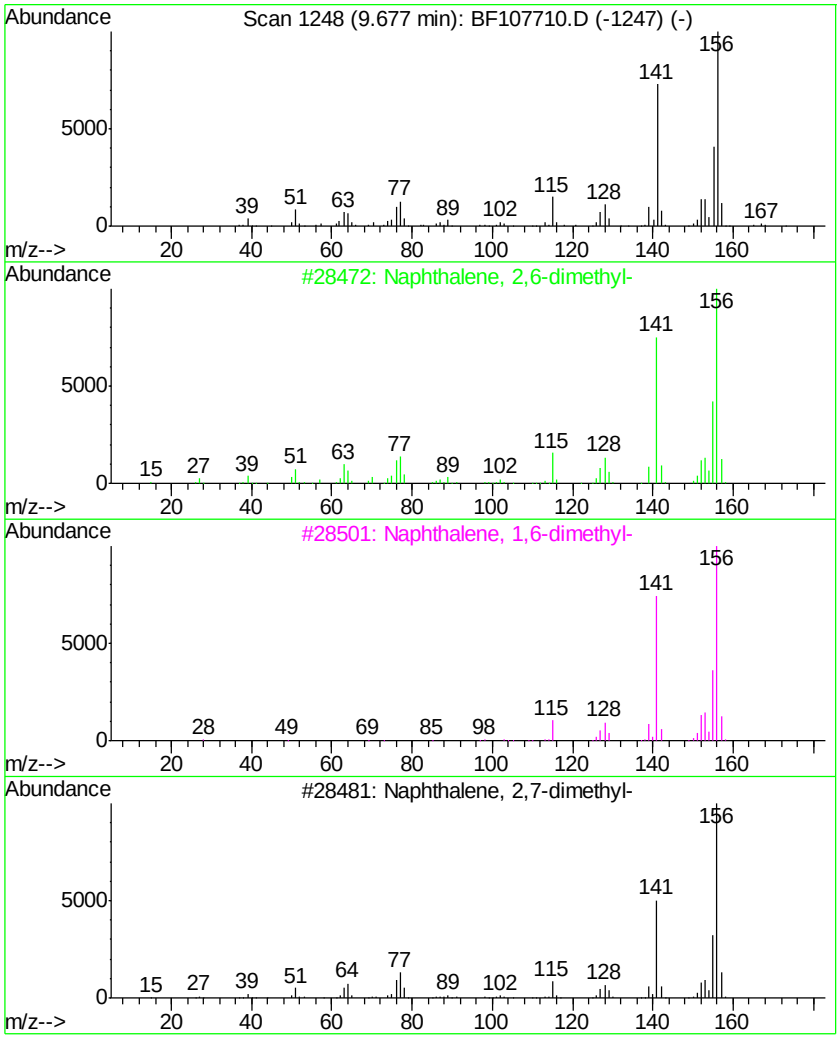
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

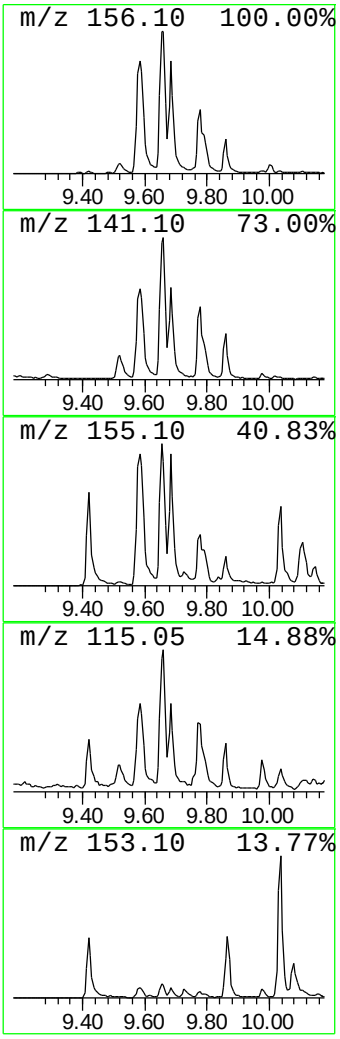
****

Peak Number 4 Naphthalene, 2,6-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.68	14.17 ng	893592	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
Data File : BF107710.D
Acq On : 26 Jul 2018 19:59
Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

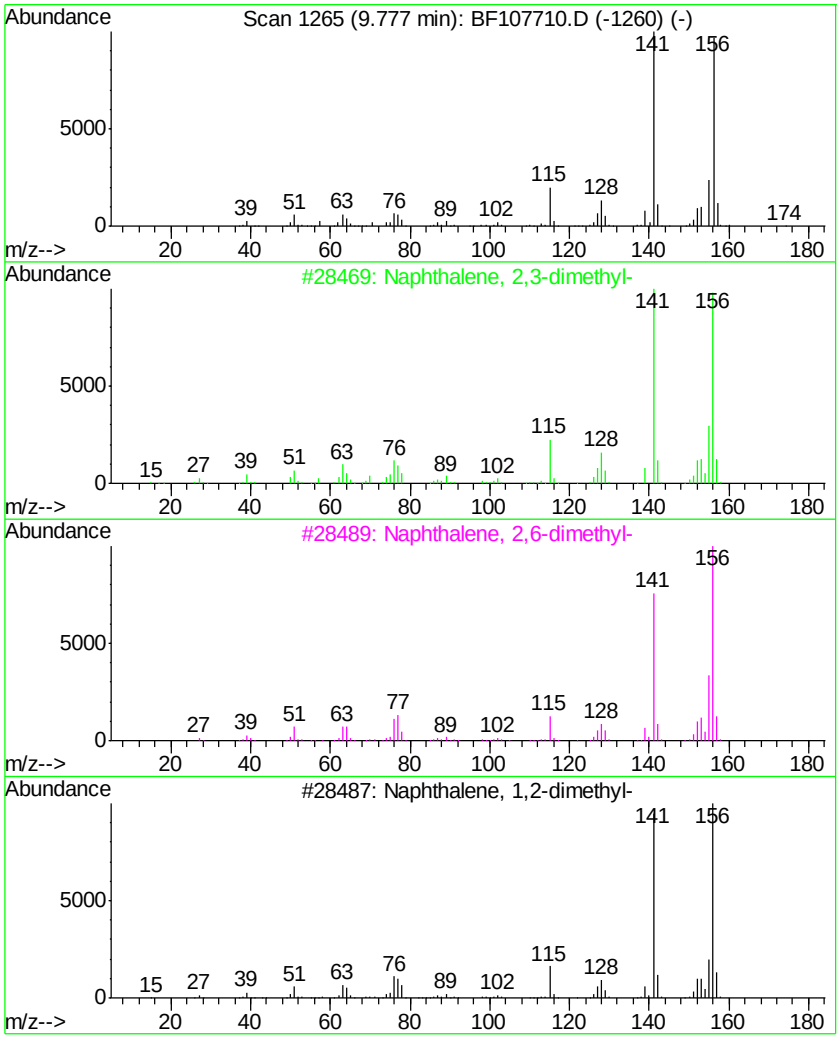
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

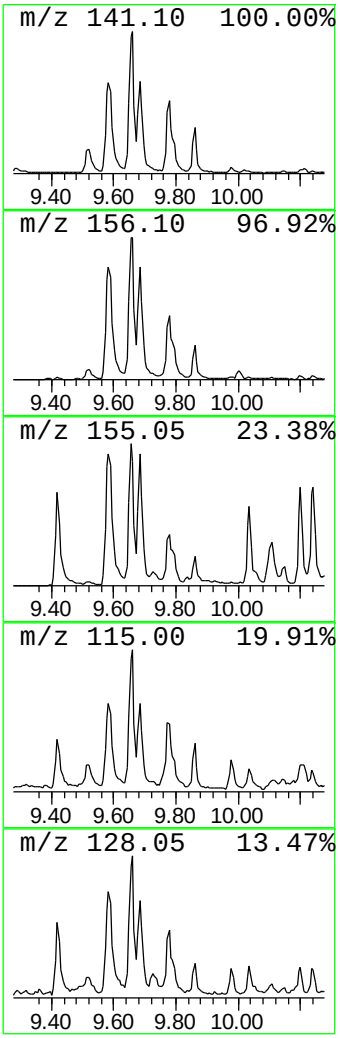
****

Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.78	14.26 ng	898667	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
3	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	95
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	95





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Acq On : 26 Jul 2018 19:59
Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(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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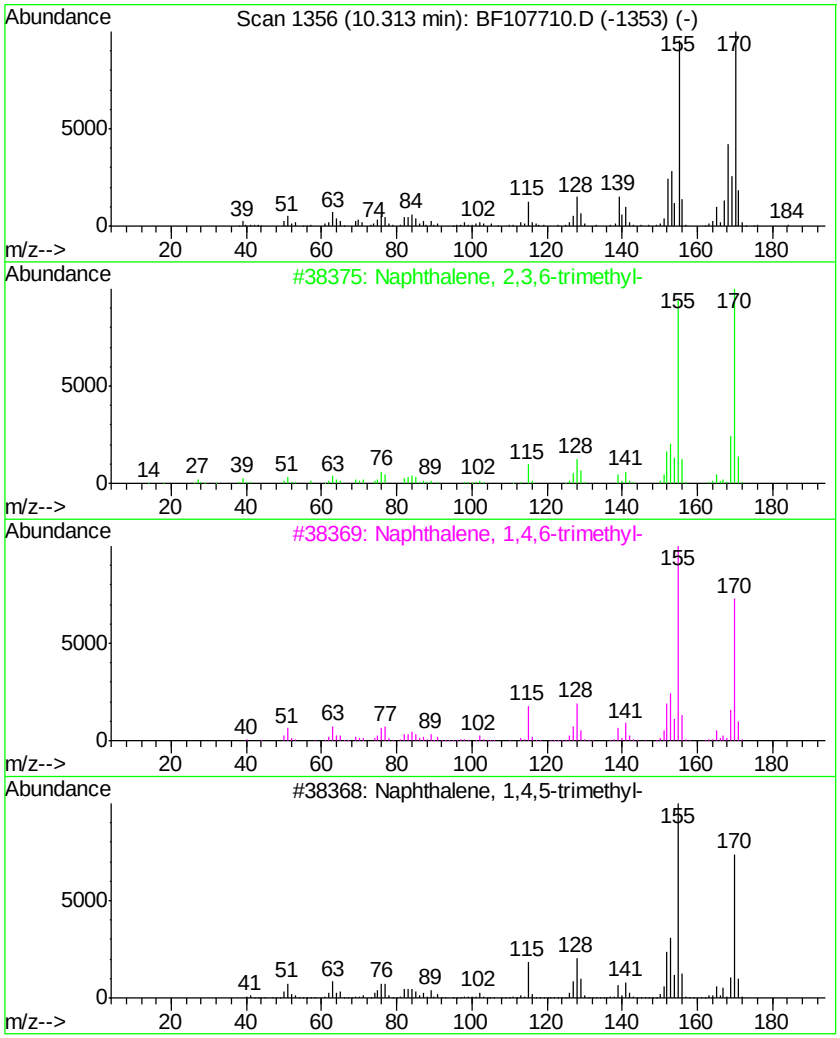
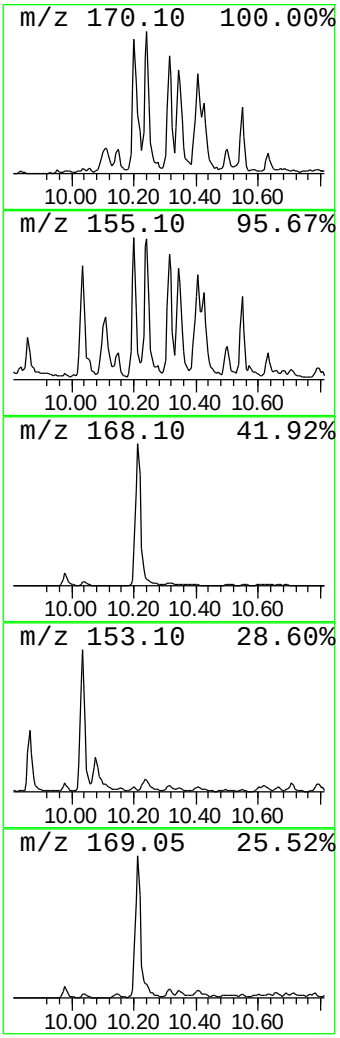
Peak Number 6 Naphthalene, 2,3,6-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.31	6.03 ng	380119	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	93
2	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	93
3	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	92
4	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	89
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	76





Library Search Compound Report

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Misc :
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Instrument : BNA_F
ClientSampleId : GW-04(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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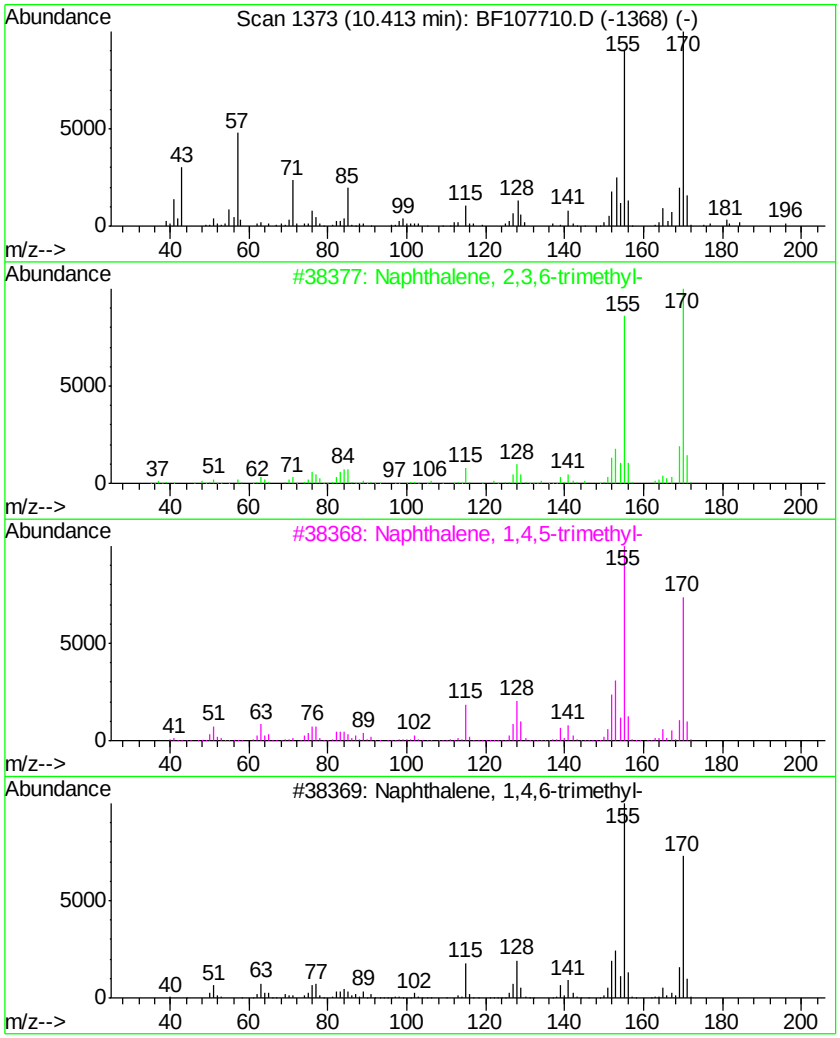
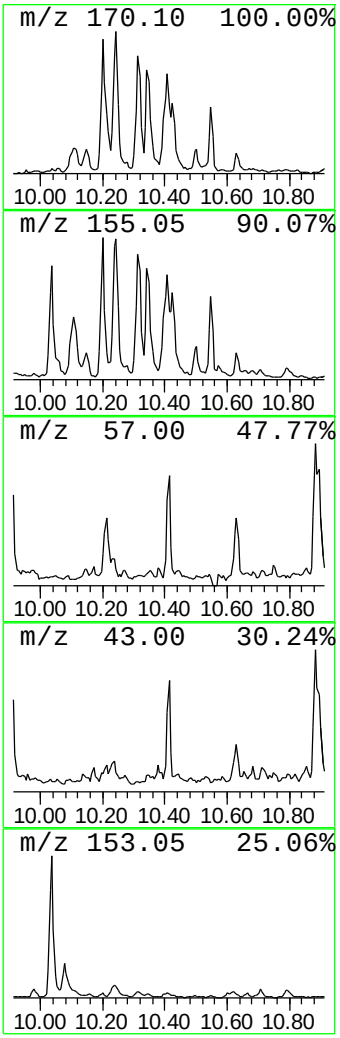
Peak Number 7 Naphthalene, 1,4,5-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.41	6.40 ng	403514	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96
2	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	95
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	95
4	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	94
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	90





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Sample : J4109-01 20X
Misc :
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Instrument : BNA_F
ClientSampleId : GW-04(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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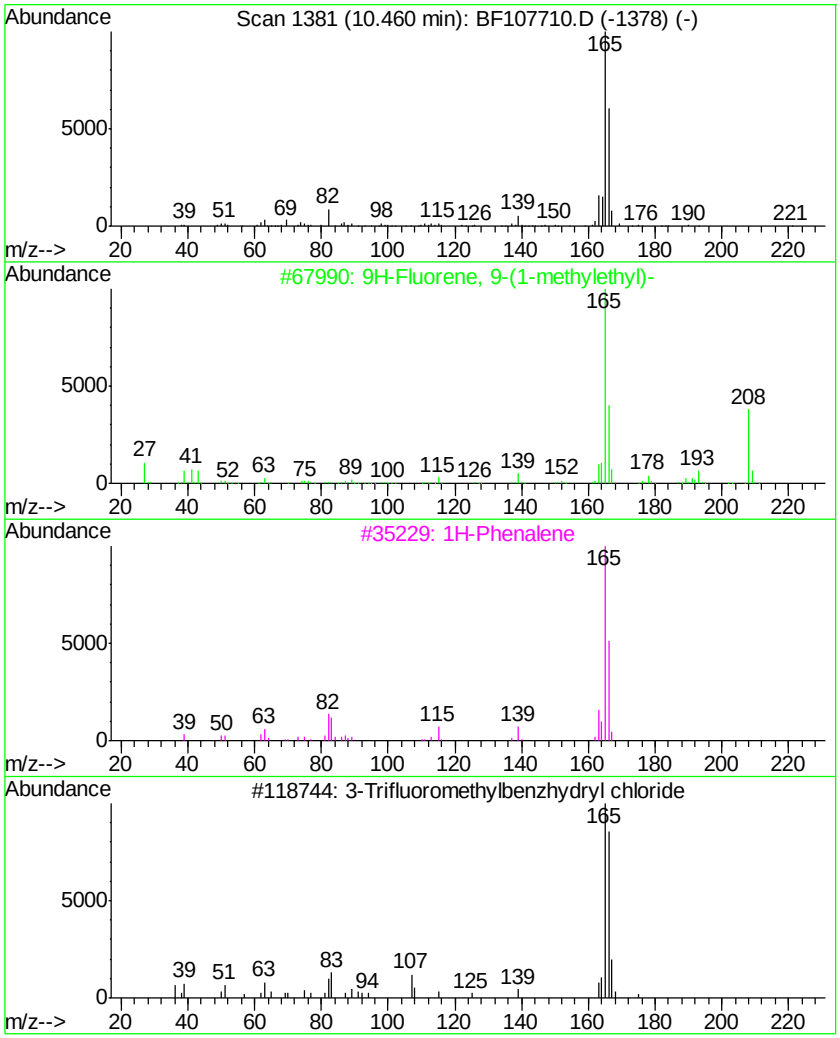
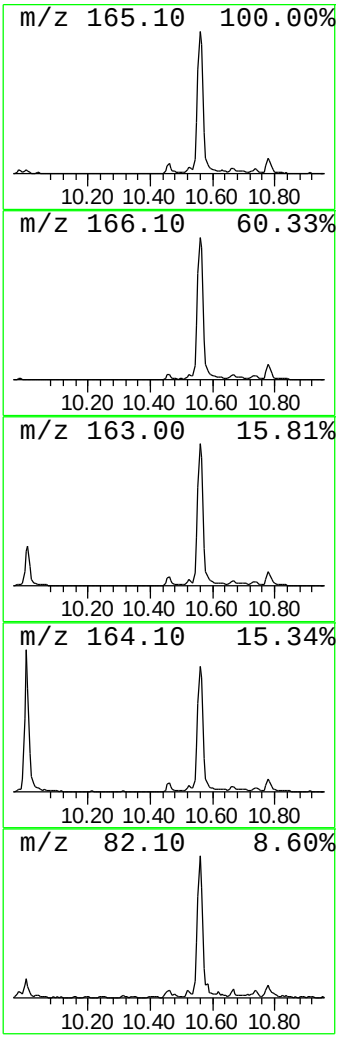
Peak Number 8 9H-Fluorene, 9-(1-methyleth... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.46	5.54 ng	349112	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-(1-methylethyl)-	208	C16H16	003299-99-8	83
2	1H-Phenalene	166	C13H10	000203-80-5	72
3	3-Trifluoromethylbenzhydryl chlo...	270	C14H10ClF3	067240-79-3	72
4	Fluorene-9-methanol	196	C14H12O	024324-17-2	64
5	Fluorene, 9-chloro-	200	C13H9Cl	006630-65-5	53





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Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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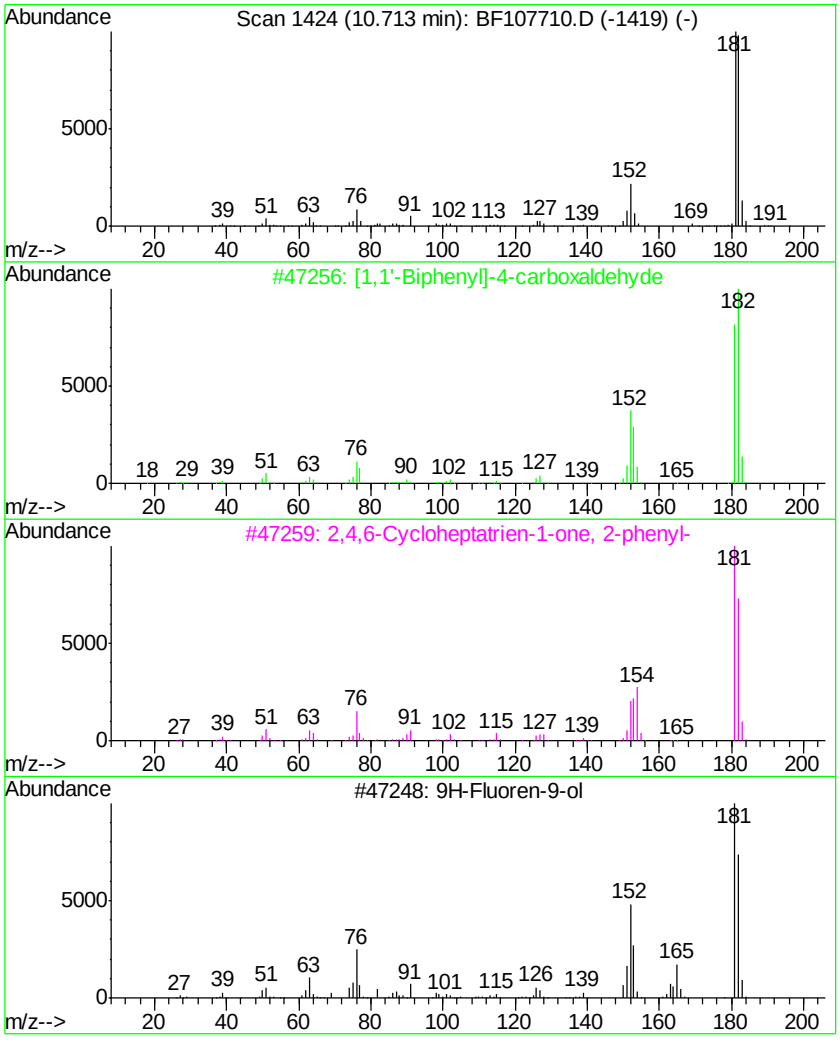
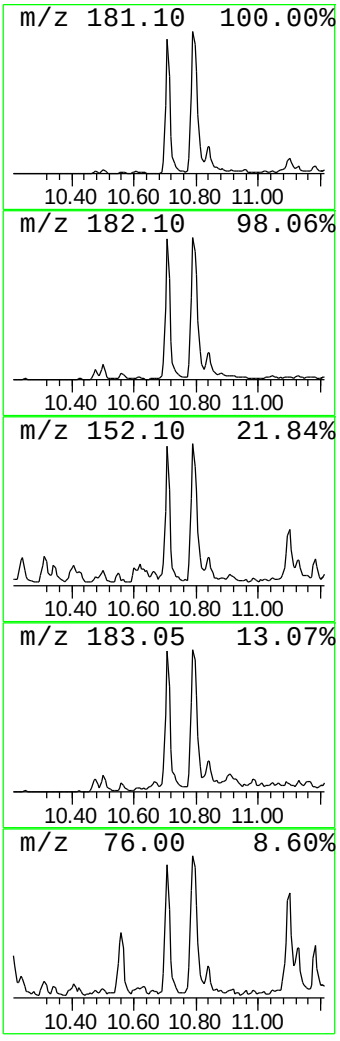
Peak Number 9 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.71	15.31 ng	965411	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	91
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	78
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
4	6H-Dibenzo[b,d]-pyran	182	C13H10O	000229-95-8	64
5	2-Hydroxyfluorene	182	C13H10O	002443-58-5	59





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Sample : J4109-01 20X
Misc :
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Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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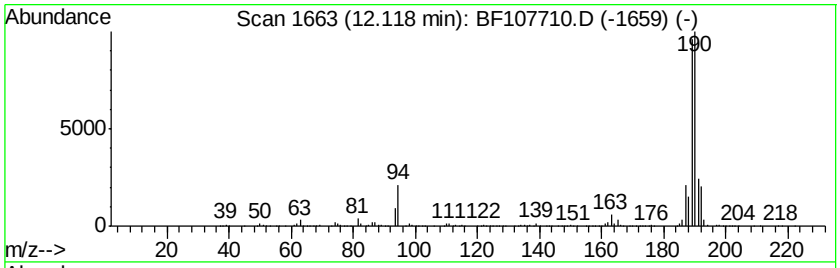
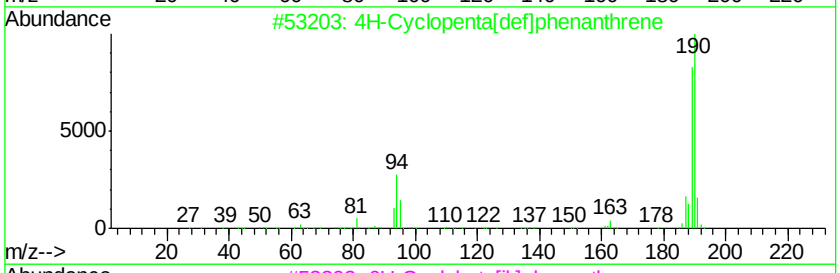
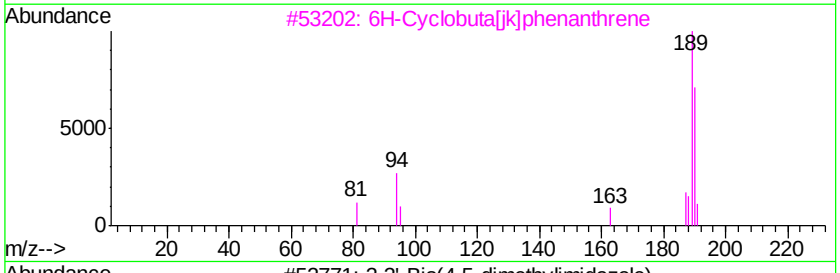
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 18

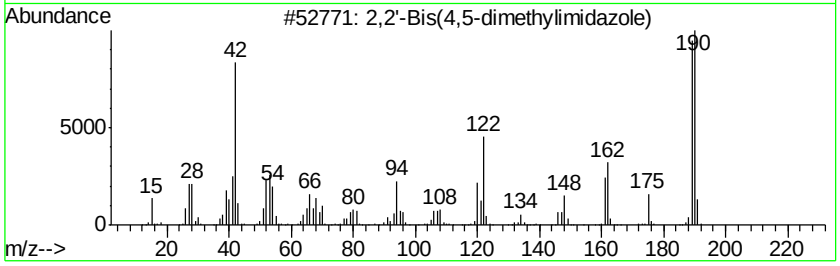
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	6.25 ng	4664200	Phenanthrene-d10	11.50

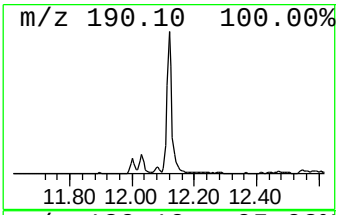
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	72
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
4	Methyl diselenide	190	C2H6Se2	007101-31-7	22
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	17

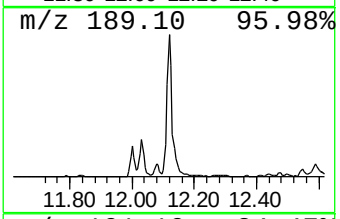


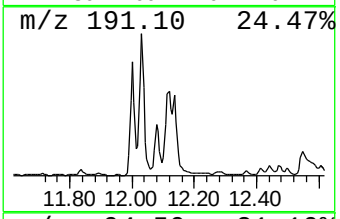


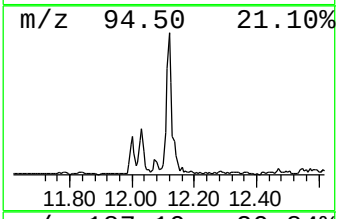


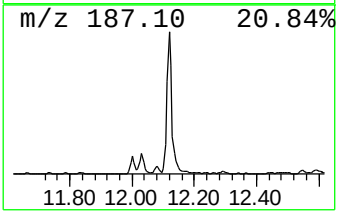












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Acq On : 26 Jul 2018 19:59
Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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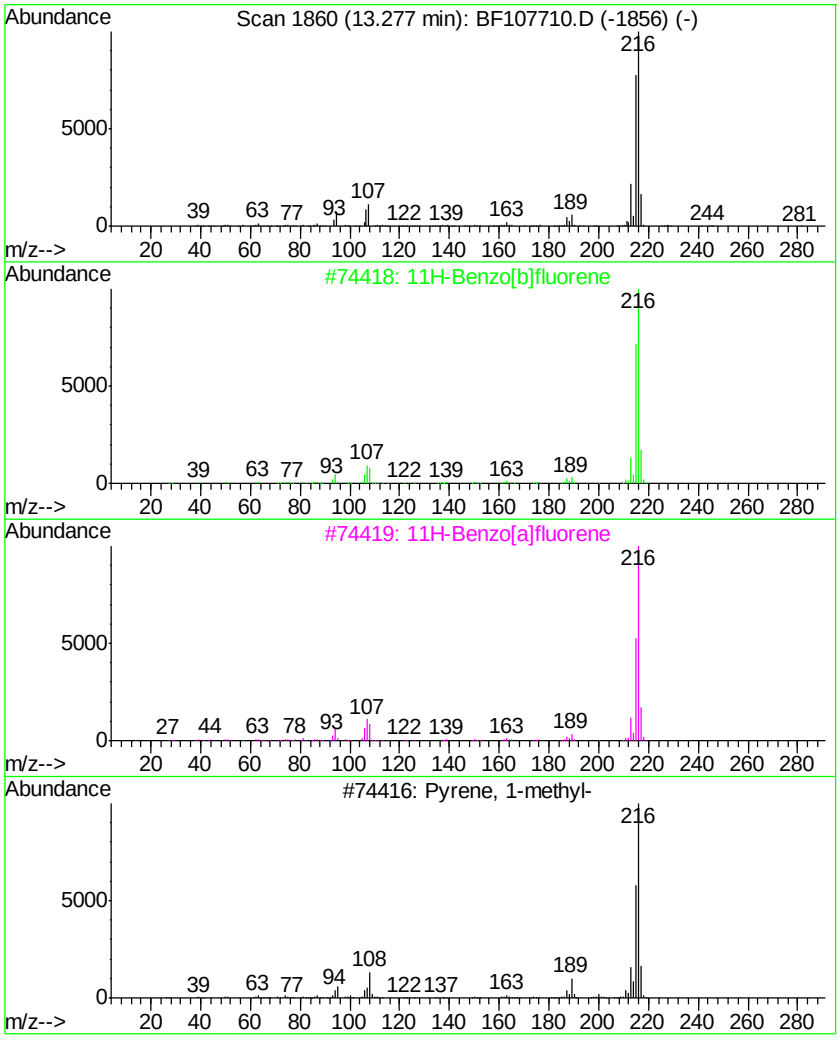
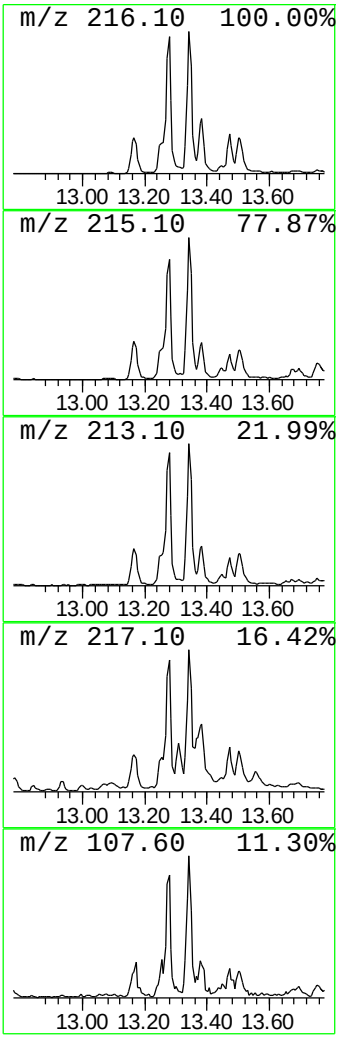
Peak Number 11 11H-Benzo[b]fluorene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.28	7.20 ng	2398520	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





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Misc :
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Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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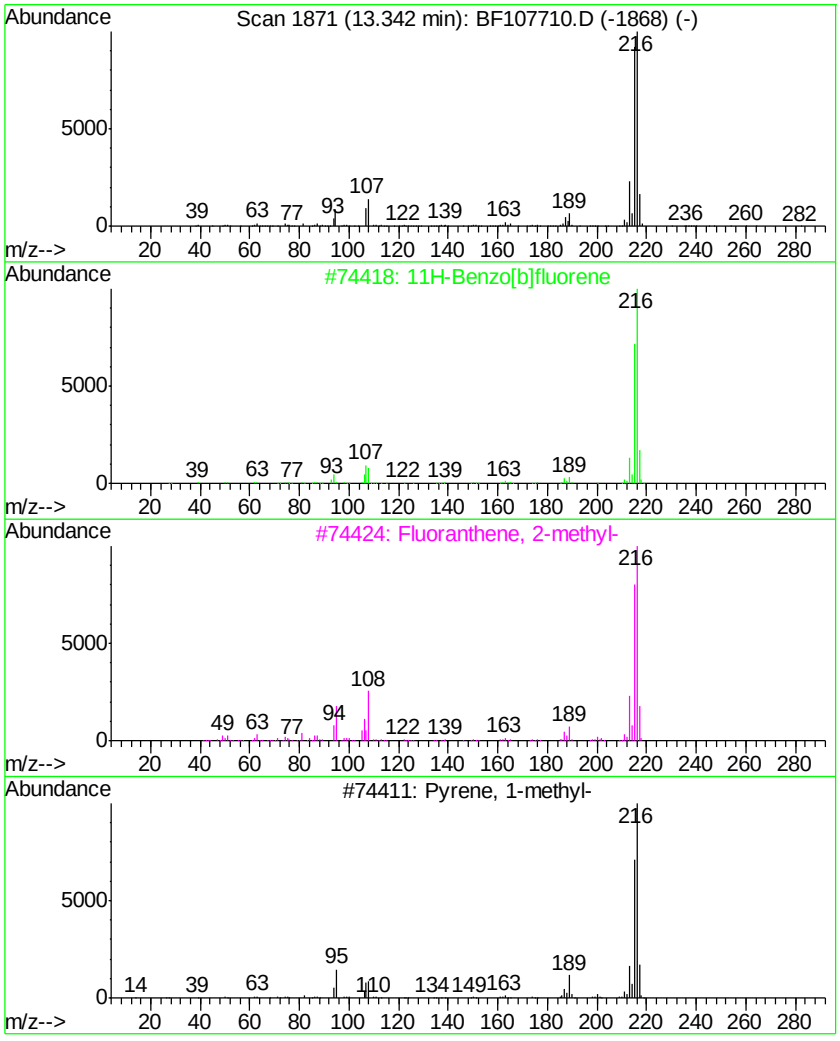
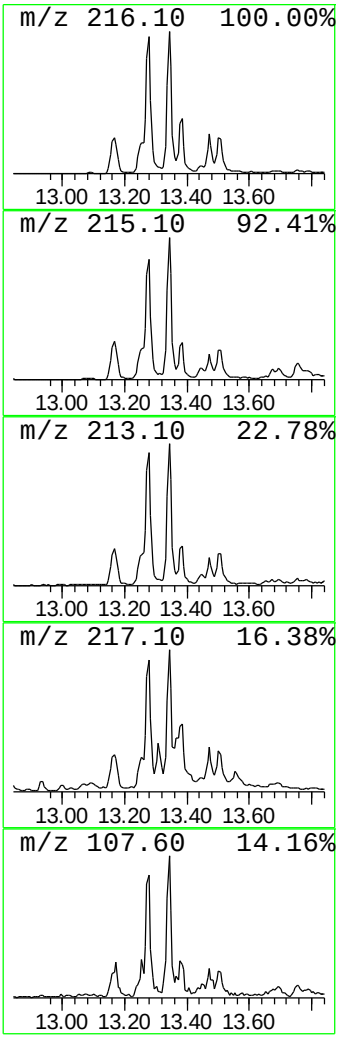
Peak Number 12 Pyrene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	6.82 ng	2272010	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





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Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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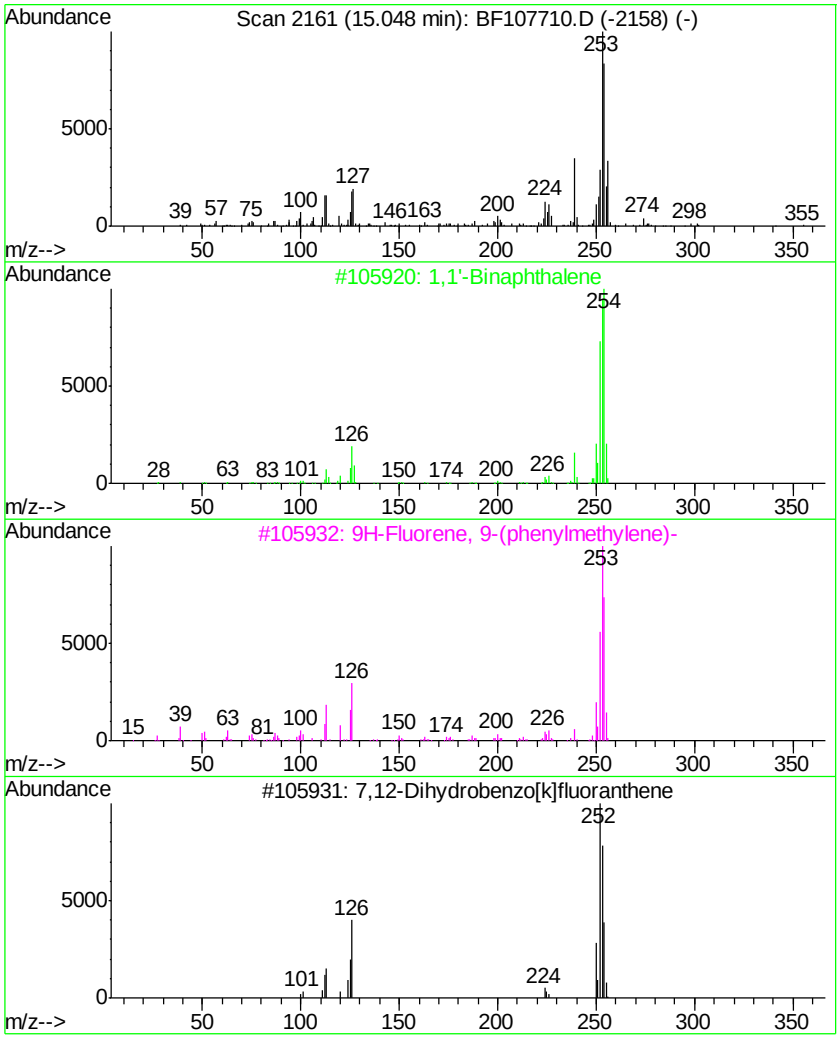
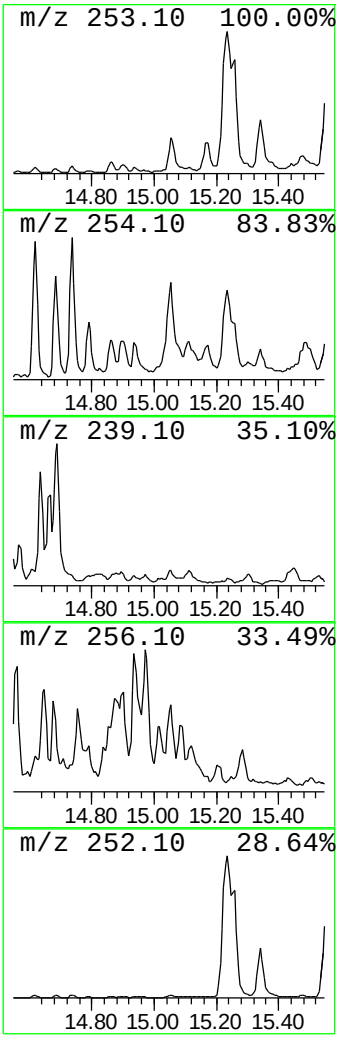
Peak Number 13 1,1'-Binaphthalene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.05	7.92 ng	354242	Perylene-d12	15.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Binaphthalene	254	C20H14	000604-53-5	60
2	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	58
3	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	58
4	Pyrido[2,3-g]indole, 5-methoxy-2...	254	C16H18N2O	201991-45-9	52
5	4,6'-Biazulenyl	254	C20H14	094154-49-1	50





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ClientSampleId : GW-04(3-5)

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TIC Integration Parameters: LSCINT.P

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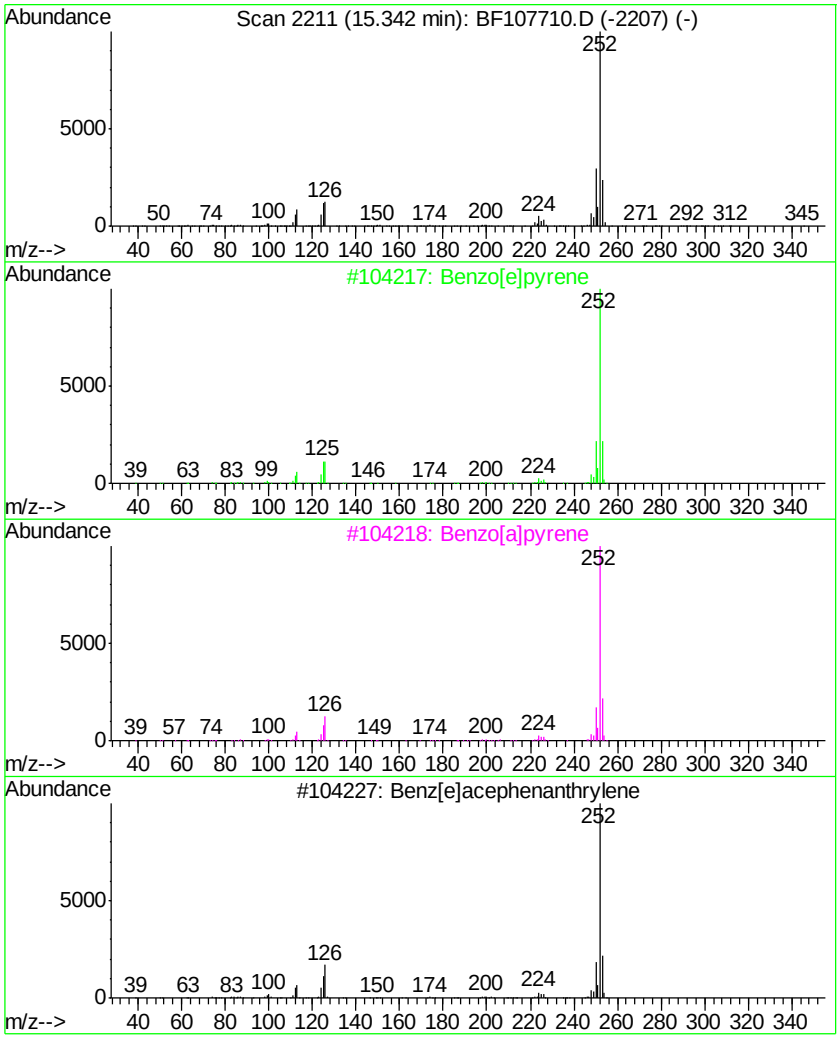
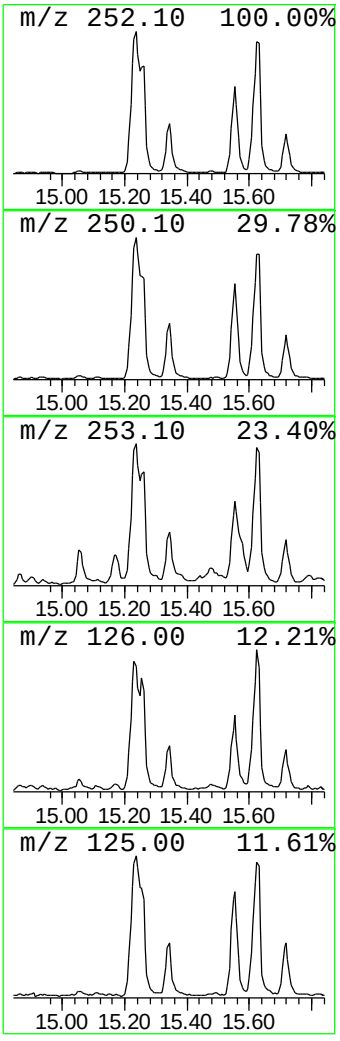
Peak Number 14 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.34	21.52 ng	963178	Perylene-d12	15.68

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	98
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





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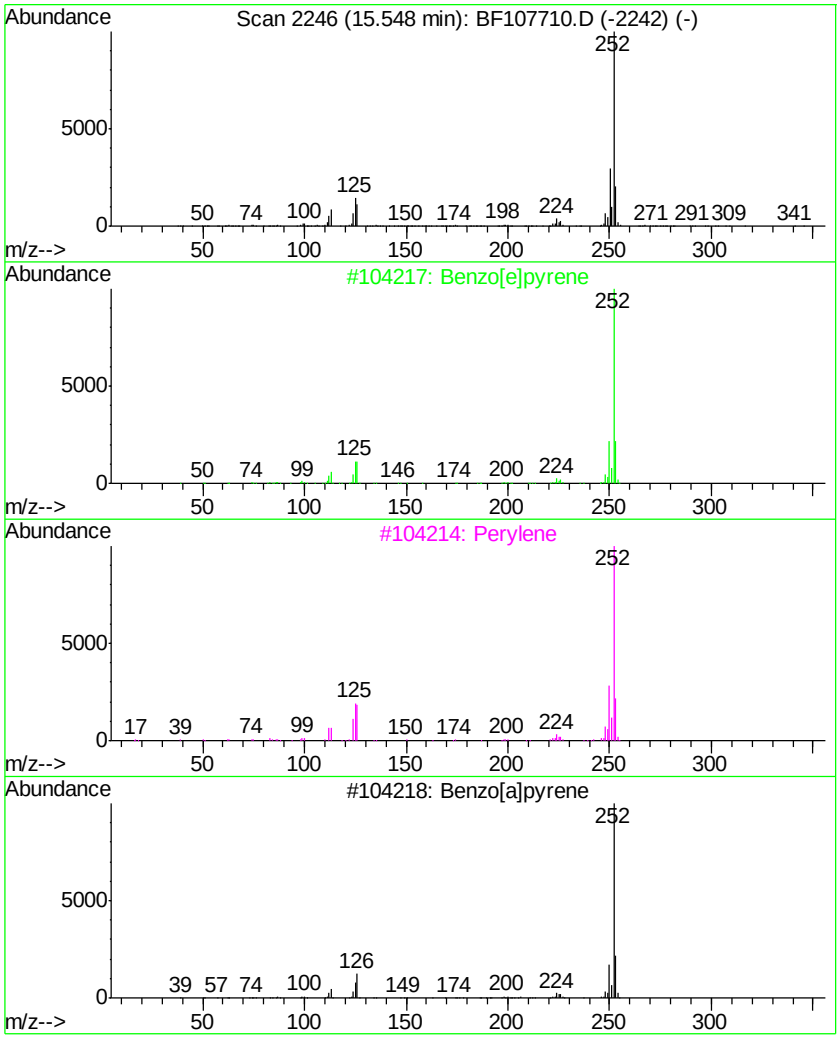
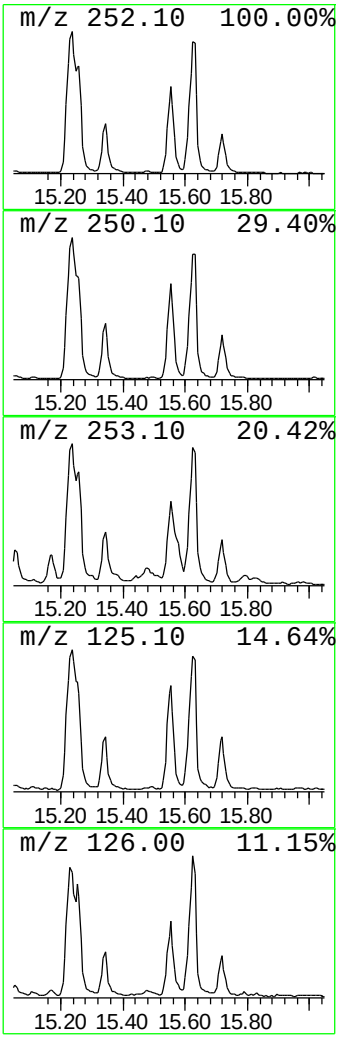
Peak Number 15 Benzo[j]fluoranthene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.55	47.69 ng	2134290	Perylene-d12	15.68

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	96
3	Benzo[a]pyrene	252	C20H12	000050-32-8	95
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





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Acq On : 26 Jul 2018 19:59
Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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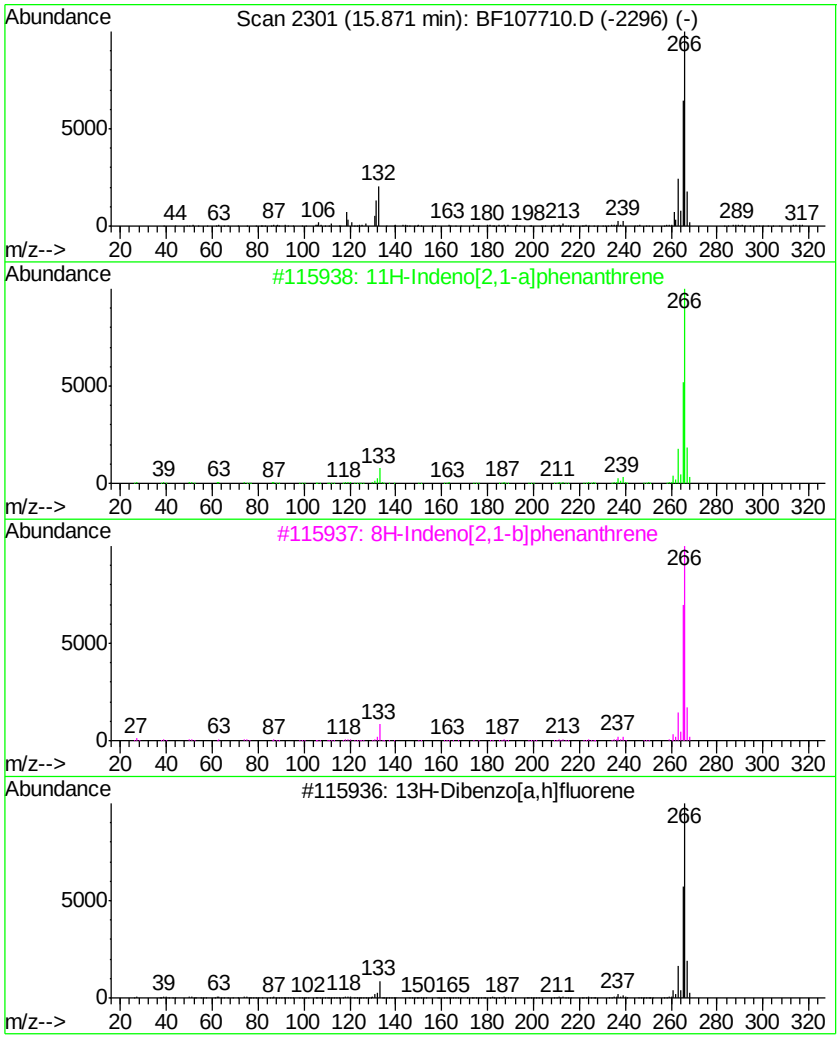
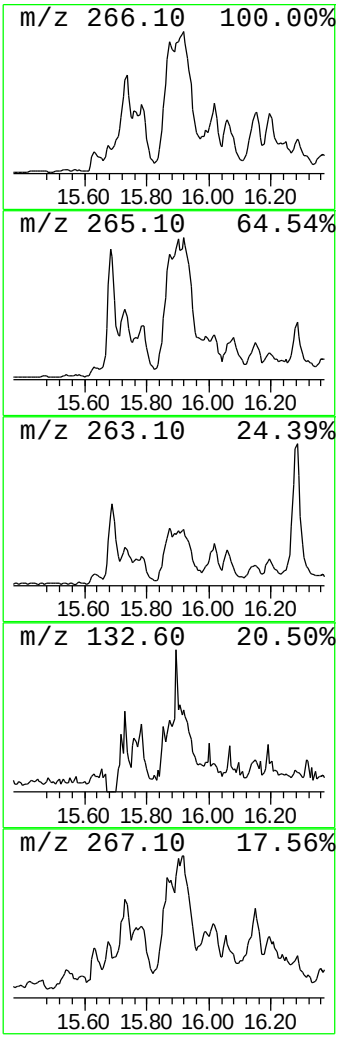
Peak Number 16 11H-Indeno[2,1-a]phenanthrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.87	8.01 ng	358318	Perylene-d12	15.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	76
2	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	76
3	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	76
4	(1H)Phenanthro[9,10-d]pyrazole, ...	294	C21H14N2	037944-54-0	56
5	4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	53





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Acq On : 26 Jul 2018 19:59
Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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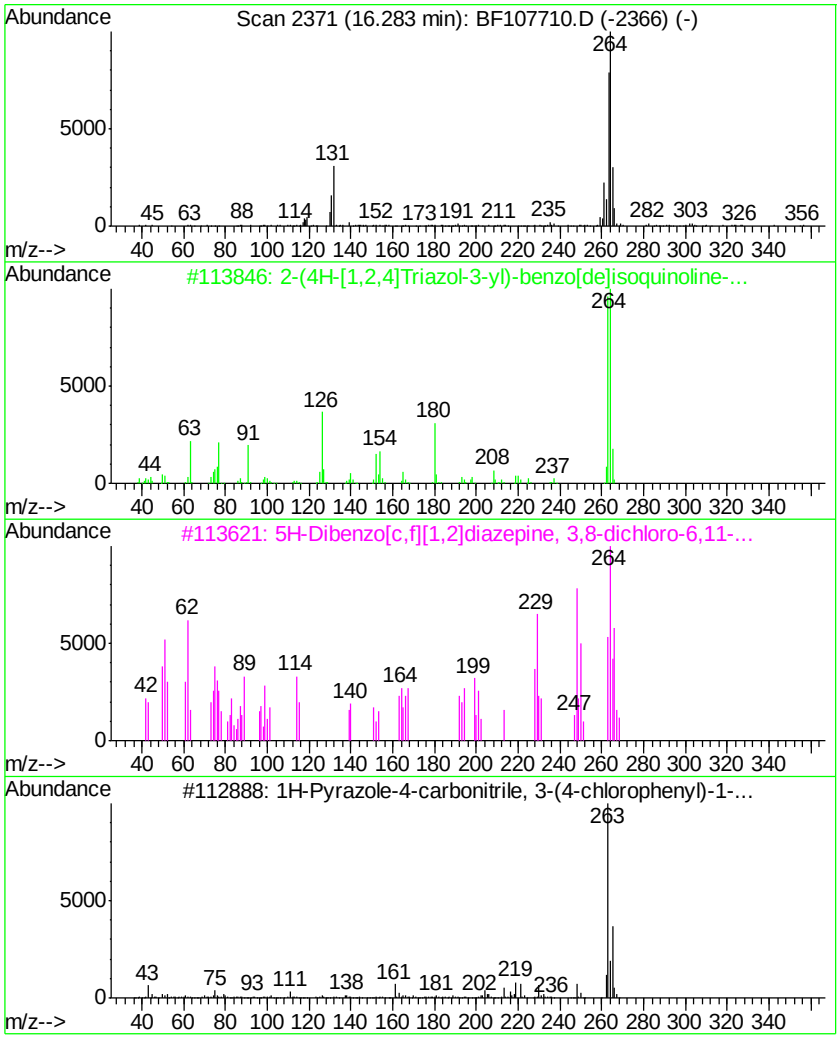
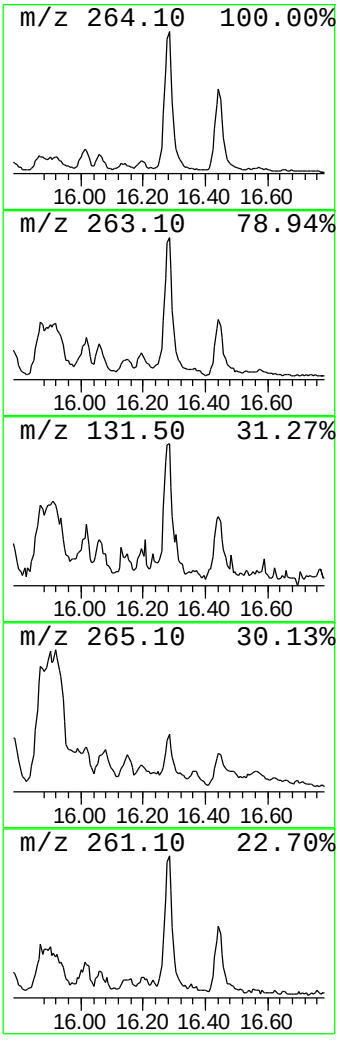
Peak Number 17 unknown16.28 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.28	14.37 ng	642967	Perylene-d12	15.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-(4H-[1,2,4]Triazol-3-yl)-benzo...	264	C14H8N4O2	1000318-09-6	40
2	5H-Dibenzo[c,f][1,2]diazepine, 3...	264	C13H10Cl2N2	000955-66-8	38
3	1H-Pyrazole-4-carbonitrile, 3-(4...	263	C12H10ClN3S	068364-67-0	35
4	Phenothiazine, 2-chloro-8-methoxy-	263	C13H10ClNOS	017800-09-8	35
5	Iron, (.eta.-5-cyclopentadienyl)...	264	C16H16Fe	1000155-06-6	32





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Data File : BF107710.D
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Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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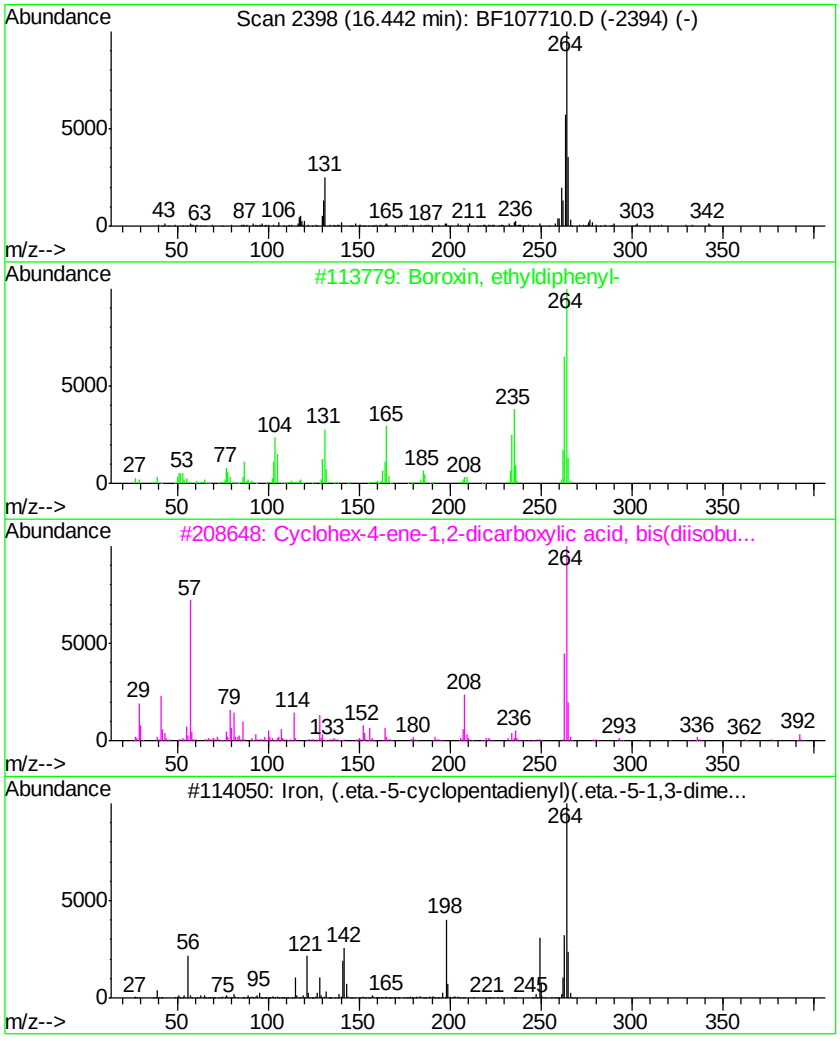
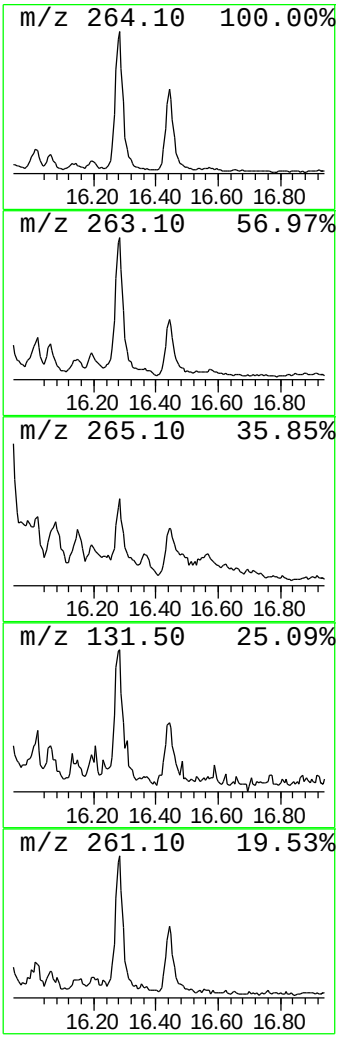
Peak Number 18 Boroxin, ethyldiphenyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.44	6.66 ng	298083	Perylene-d12	15.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Boroxin, ethyldiphenyl-	264	C14H15B3O3	1000151-82-0	53
2	Cyclohex-4-ene-1,2-dicarboxylic ...	392	C24H44N2O2	1000187-42-7	38
3	Iron, (.eta.-5-cyclopentadienyl)...	264	C16H16Fe	1000155-06-6	38
4	Methyl 8-[5-(methoxycarbonyl)met...	296	C16H24O5	1000105-33-9	35
5	Quinoline, 2-[2-(4-chlorophenyl)...	265	C17H12ClN	005392-19-8	25





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Data File : BF107710.D
Acq On : 26 Jul 2018 19:59
Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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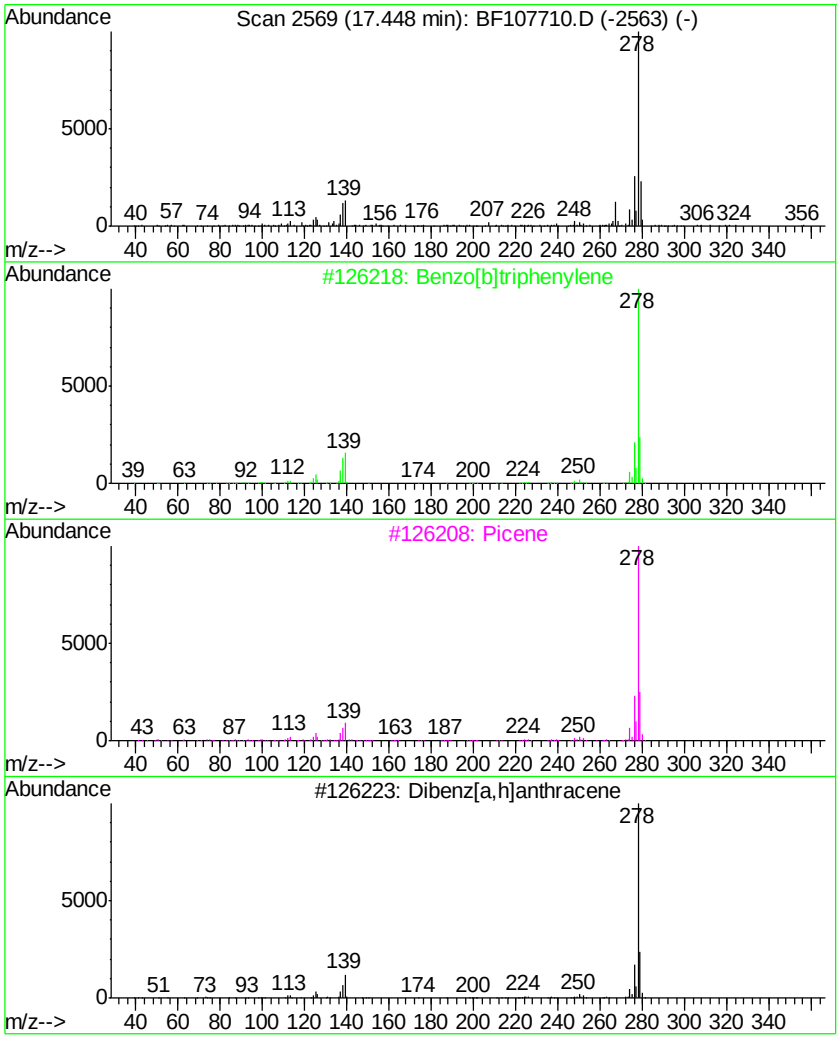
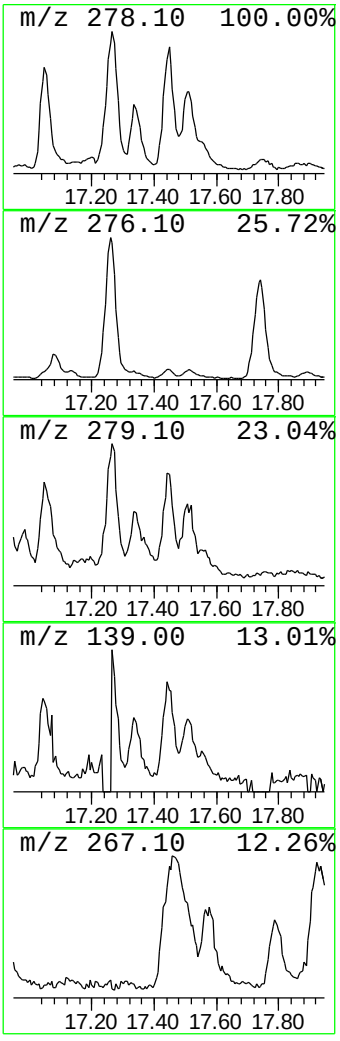
Peak Number 19 Benzo[b]triphenylene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.45	9.75 ng	436498	Perylene-d12	15.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
2	Picene	278	C22H14	000213-46-7	98
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	95
4	Pentaphene	278	C22H14	000222-93-5	89
5	Benzo[b]chrysene	278	C22H14	000214-17-5	89





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
Data File : BF107710.D
Acq On : 26 Jul 2018 19:59
Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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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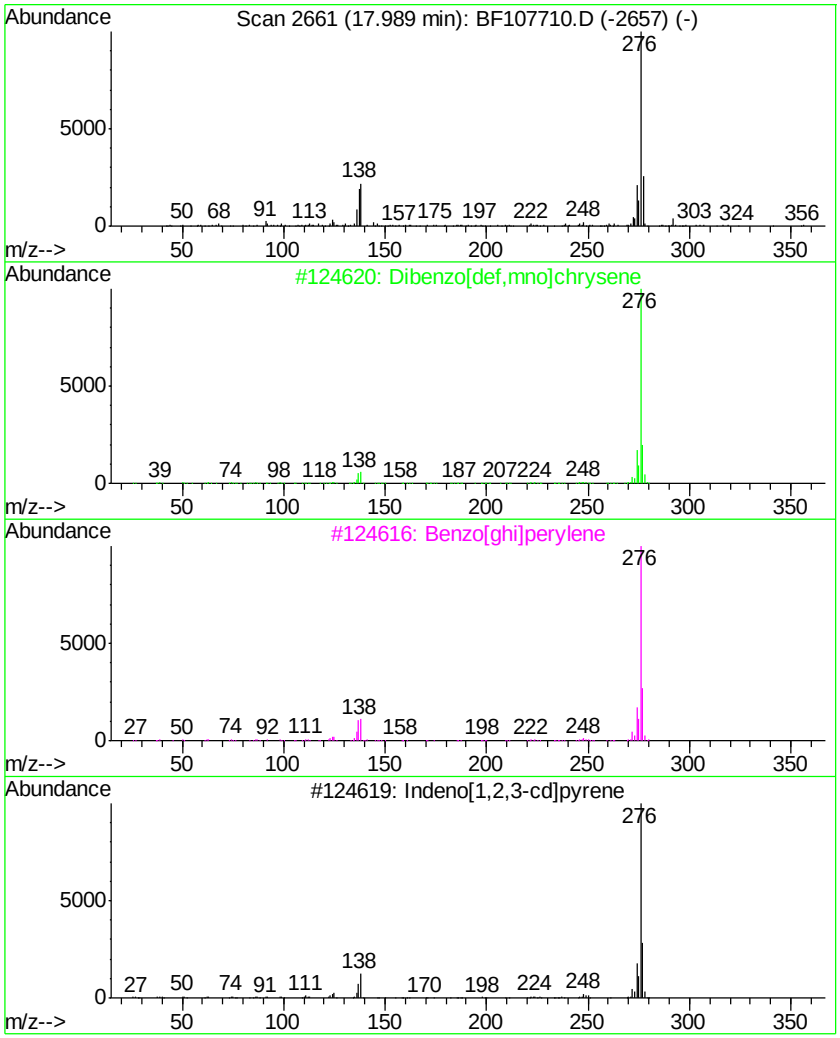
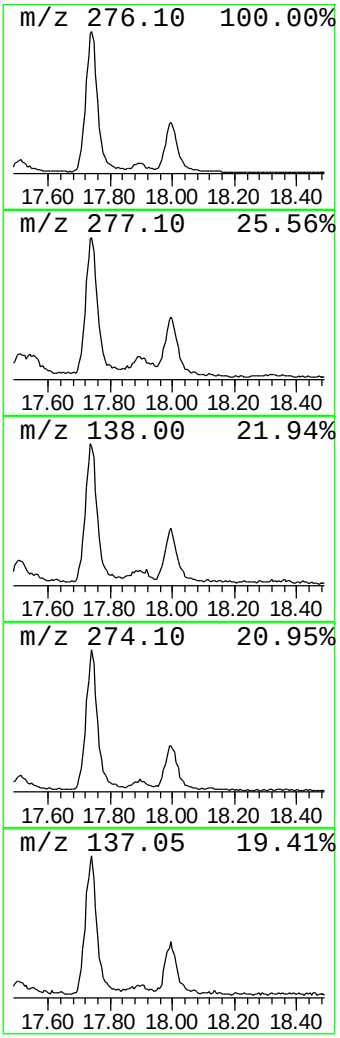
Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.99	15.66 ng	700853	Perylene-d12	15.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	91
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	89
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	86
4	1,3,5-Triazin-2-amine, N-isoprop...	276	C14H24N6	1000276-80-0	43
5	Phosphoric acid, 4-methoxy-2-(me...	276	C11H17O6P	094420-71-0	43





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072618\
Data File : BF107710.D
Acq On : 26 Jul 2018 19:59
Operator : JU/SJ
Sample : J4109-01 20X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GW-04(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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
Benzene, 1-propynyl-	7.22	18.6	ng	840105	1	6.96	904864	20.0
Naphthalene, 1,5-...	9.58	24.5	ng	1546140	3	10.00	1260840	20.0
Naphthalene, 2,7-...	9.65	22.2	ng	1400890	3	10.00	1260840	20.0
Naphthalene, 2,6-...	9.68	14.2	ng	893592	3	10.00	1260840	20.0
Naphthalene, 2,3-...	9.78	14.3	ng	898667	3	10.00	1260840	20.0
Naphthalene, 2,3,...	10.31	6.0	ng	380119	3	10.00	1260840	20.0
Naphthalene, 1,4,...	10.41	6.4	ng	403514	3	10.00	1260840	20.0
9H-Fluorene, 9-(1...	10.46	5.5	ng	349112	3	10.00	1260840	20.0
[1,1'-Biphenyl]-4...	10.71	15.3	ng	965411	3	10.00	1260840	20.0
4H-Cyclopenta[def...	12.12	6.3	ng	4664200	4	11.50	14915900	20.0
11H-Benzo[b]fluorene	13.28	7.2	ng	2398520	5	14.15	6662580	20.0
Pyrene, 1-methyl-	13.34	6.8	ng	2272010	5	14.15	6662580	20.0
1,1'-Binaphthalene	15.05	7.9	ng	354242	6	15.68	895015	20.0
Benzo[e]pyrene	15.34	21.5	ng	963178	6	15.68	895015	20.0
Benzo[j]fluoranthene	15.55	47.7	ng	2134290	6	15.68	895015	20.0
11H-Indeno[2,1-a]...	15.87	8.0	ng	358318	6	15.68	895015	20.0
unknown16.28	16.28	14.4	ng	642967	6	15.68	895015	20.0
Boroxin, ethyldip...	16.44	6.7	ng	298083	6	15.68	895015	20.0
Benzo[b]triphenylene	17.45	9.8	ng	436498	6	15.68	895015	20.0
Dibenzo[def,mno]c...	17.99	15.7	ng	700853	6	15.68	895015	20.0