LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098716.D
Acq On : 23 Sep 2017 00:35
Operator : SJ/JU
Sample : I5304-05 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

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:\HPCHEM1\BNA_F\METHODS\8270-BF092117.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	5.534	582	586	589	rBV	191549	178836	1.90%	0.226%
2	6.534	752	756	760	rBV	236843	187510	2.00%	0.236%
3	6.687	779	782	786	rVB	239962	193611	2.06%	0.244%
4	6.928	819	823	826	rBV	1079478	843818	8.98%	1.064%
5	7.081	846	849	852	rVB	166764	128110	1.36%	0.162%
6	8.210	1037	1041	1044	rBV	1426751	1125644	11.98%	1.419%
7	9.281	1219	1223	1226	rBV	262341	192478	2.05%	0.243%
8	9.622	1278	1281	1283	rBV	140758	122985	1.31%	0.155%
9	9.963	1336	1339	1342	rBV	1201597	1023259	10.89%	1.290%
10	9.998	1342	1345	1348	rVB	731599	578317	6.16%	0.729%
11	10.069	1353	1357	1361	rBV	83675	123561	1.32%	0.156%
12	10.163	1369	1373	1377	rBV2	187137	190598	2.03%	0.240%
13	10.369	1404	1408	1410	rBV2	99411	128314	1.37%	0.162%
14	10.510	1428	1432	1437	rVV2	300370	310380	3.30%	0.391%
15	10.663	1453	1458	1463	rVB4	90340	203737	2.17%	0.257%
16	10.745	1470	1472	1476	rVB	160750	148191	1.58%	0.187%
17	10.875	1488	1494	1500	rVB2	104643	136392	1.45%	0.172%
18	11.057	1519	1525	1528	rBV3	119731	178399	1.90%	0.225%
19	11.086	1528	1530	1533	rVV2	133477	120420	1.28%	0.152%
20	11.310	1562	1568	1572	rVV4	86717	156420	1.67%	0.197%
21	11.345	1572	1574	1580	rVB	345372	337635	3.59%	0.426%
22	11.451	1589	1592	1594	rBV	870286	920448	9.80%	1.161%
23	11.486	1594	1598	1600	rVV	4501238	4745838	50.52%	5.984%
24	11.533	1600	1606	1608	rVV	1766263	1717860	18.29%	2.166%
25	11.557	1608	1610	1613	rVV	205054	183052	1.95%	0.231%
26	11.680	1624	1631	1634	rBV2	684334	720707	7.67%	0.909%
27	11.780	1645	1648	1652	rVB2	159610	144114	1.53%	0.182%
28	11.951	1672	1677	1680	rBV	669369	698296	7.43%	0.881%
29	11.980	1680	1682	1686	rVB	1050108	881560	9.39%	1.112%
30	12.027	1686	1690	1693	rBV	430000	408648	4.35%	0.515%
31	12.069	1693	1697	1699	rVV2	1576512	1664558	17.72%	2.099%
32	12.086	1699	1700	1704	rVB	601920	376335	4.01%	0.475%
33	12.251	1724	1728	1730	rVV	708147	701450	7.47%	0.885%
34	12.274	1730	1732	1735	rVV2	422331	342320	3.64%	0.432%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098716.D
Acq On : 23 Sep 2017 00:35
Operator : SJ/JU
Sample : I5304-05 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

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:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.398	1751	1753	1755	rVV	190767	151579	1.61%	0.191%
36	12.427	1755	1758	1760	rVV	170019	129300	1.38%	0.163%
37	12.451	1760	1762	1765	rVB	190613	150642	1.60%	0.190%
38	12.504	1767	1771	1774	rBV	437419	510140	5.43%	0.643%
39	12.539	1774	1777	1780	rVV3	219676	297922	3.17%	0.376%
40	12.592	1783	1786	1791	rBV2	339660	421378	4.49%	0.531%
41	12.686	1795	1802	1804	rBV	5897585	8848205	94.20%	11.157%
42	12.727	1808	1809	1813	rVB2	242864	184130	1.96%	0.232%
43	12.821	1817	1825	1829	rBV2	536296	816254	8.69%	1.029%
44	12.916	1833	1841	1844	rBV2	5726464	9393176	100.00%	11.845%
45	12.945	1844	1846	1850	rVB2	460106	461948	4.92%	0.583%
46	13.016	1853	1858	1862	rBV2	680632	774307	8.24%	0.976%
47	13.051	1862	1864	1868	rVB	599674	551239	5.87%	0.695%
48	13.110	1869	1874	1878	rBV2	450494	857857	9.13%	1.082%
49	13.139	1878	1879	1882	rVB	272705	206942	2.20%	0.261%
50	13.198	1882	1889	1890	rBV4	410726	521811	5.56%	0.658%
51	13.221	1890	1893	1896	rVB	1260097	1247937	13.29%	1.574%
52	13.251	1896	1898	1901	rBV2	99878	110020	1.17%	0.139%
53	13.292	1901	1905	1907	rBV	1043765	905032	9.63%	1.141%
54	13.327	1907	1911	1913	rVV2	649786	696632	7.42%	0.878%
55	13.351	1913	1915	1918	rVB	265295	233081	2.48%	0.294%
56	13.380	1918	1920	1924	rVB2	135983	112512	1.20%	0.142%
57	13.421	1924	1927	1929	rBV	345327	285254	3.04%	0.360%
58	13.451	1929	1932	1935	rBV	401747	375891	4.00%	0.474%
59	13.527	1941	1945	1949	rVB4	174992	222883	2.37%	0.281%
60	13.621	1954	1961	1963	rBV5	163600	314568	3.35%	0.397%
61	13.651	1963	1966	1968	rVV	137988	176298	1.88%	0.222%
62	13.704	1972	1975	1976	rBV2	120975	130514	1.39%	0.165%
63	13.727	1976	1979	1984	rVB	484395	519698	5.53%	0.655%
64	13.839	1993	1998	2001	rBV2	736419	929053	9.89%	1.172%
65	13.868	2001	2003	2005	rVV	731719	711626	7.58%	0.897%
66	13.898	2005	2008	2011	rVV2	747690	1027309	10.94%	1.295%
67	13.939	2011	2015	2021	rVB2	583255	721363	7.68%	0.910%
68	14.010	2021	2027	2033	rBV	239634	410535	4.37%	0.518%
69	14.092	2033	2041	2044	rVV3	3869998	5670694	60.37%	7.151%
70	14.127	2044	2047	2053	rVV	3411998	3641682	38.77%	4.592%
71	14.204	2057	2060	2063	rVV	830902	745050	7.93%	0.939%

LSC Area Percent Report

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Acq On : 23 Sep 2017 00:35
Operator : SJ/JU
Sample : I5304-05 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

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:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.233	2063	2065	2070	rVV3	134536	256017	2.73%	0.323%
73	14.280	2070	2073	2075	rVV	355776	344520	3.67%	0.434%
74	14.310	2075	2078	2082	rVV2	394202	496543	5.29%	0.626%
75	14.410	2092	2095	2098	rVV3	129146	162065	1.73%	0.204%
76	14.439	2098	2100	2102	rVV	182143	175582	1.87%	0.221%
77	14.474	2102	2106	2109	rVV	505872	625831	6.66%	0.789%
78	14.510	2109	2112	2116	rVV2	294168	334565	3.56%	0.422%
79	14.574	2116	2123	2125	rVV2	271908	501438	5.34%	0.632%
80	14.604	2125	2128	2130	rVV2	334981	362890	3.86%	0.458%
81	14.627	2130	2132	2135	rVV2	378503	330580	3.52%	0.417%
82	14.674	2135	2140	2144	rVB3	181026	290947	3.10%	0.367%
83	14.786	2155	2159	2162	rBV2	282826	346193	3.69%	0.437%
84	14.815	2162	2164	2170	rVB3	119141	160787	1.71%	0.203%
85	14.868	2170	2173	2177	rBV2	96678	126403	1.35%	0.159%
86	14.980	2186	2192	2200	rVB3	149217	331726	3.53%	0.418%
87	15.051	2200	2204	2207	rBV3	102269	128367	1.37%	0.162%
88	15.157	2215	2222	2225	rBV	1824224	3379551	35.98%	4.262%
89	15.180	2225	2226	2229	rVB	1153283	665179	7.08%	0.839%
90	15.257	2236	2239	2246	rVB	341246	361747	3.85%	0.456%
91	15.351	2251	2255	2256	rBV2	109128	136473	1.45%	0.172%
92	15.462	2269	2274	2280	rVB	937243	1294290	13.78%	1.632%
93	15.527	2280	2285	2291	rVB	1327006	1775641	18.90%	2.239%
94	15.592	2291	2296	2299	rBV	635556	915076	9.74%	1.154%
95	15.621	2299	2301	2307	rVB	472329	546733	5.82%	0.689%
96	16.162	2389	2393	2401	rVB3	71233	141615	1.51%	0.179%
97	17.098	2545	2552	2560	rVB2	369877	750922	7.99%	0.947%
98	17.280	2578	2583	2588	rVB	67048	118135	1.26%	0.149%
99	17.333	2588	2592	2598	rBV3	49976	110963	1.18%	0.140%
100	17.551	2623	2629	2643	rVB	248515	554632	5.90%	0.699%

Sum of corrected areas: 79303674

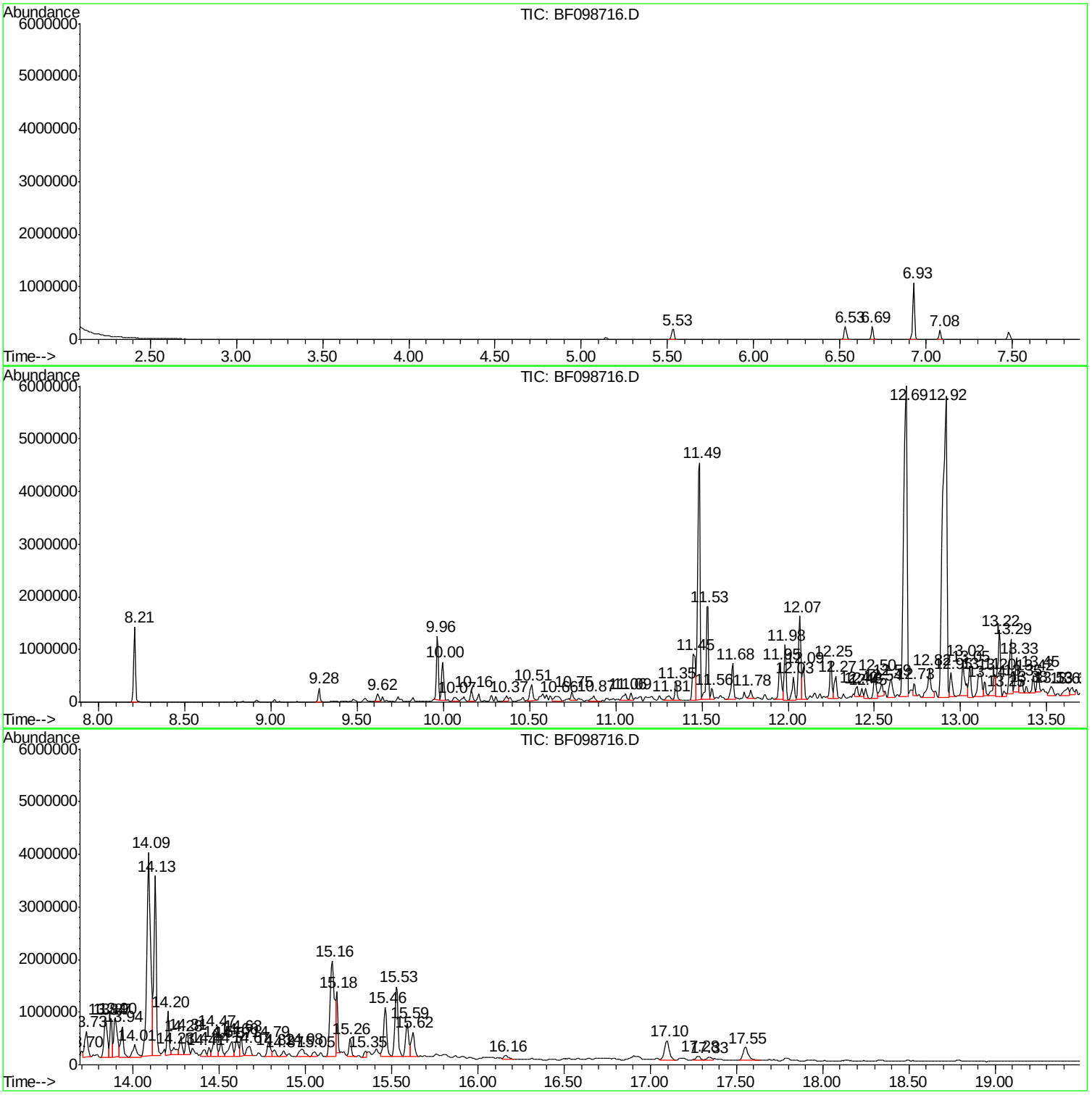
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098716.D
Acq On : 23 Sep 2017 00:35
Operator : SJ/JU
Sample : I5304-05 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SASP2P-ENV-118-6(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098716.D
Acq On : 23 Sep 2017 00:35
Operator : SJ/JU
Sample : I5304-05 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

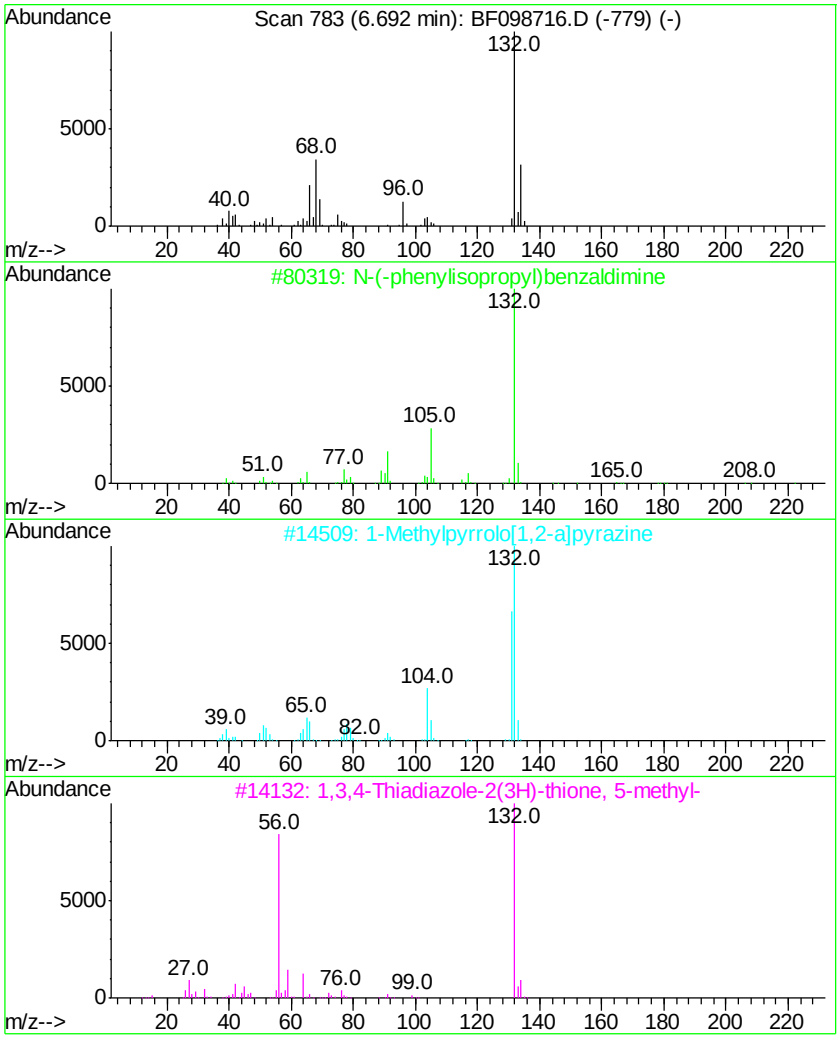
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

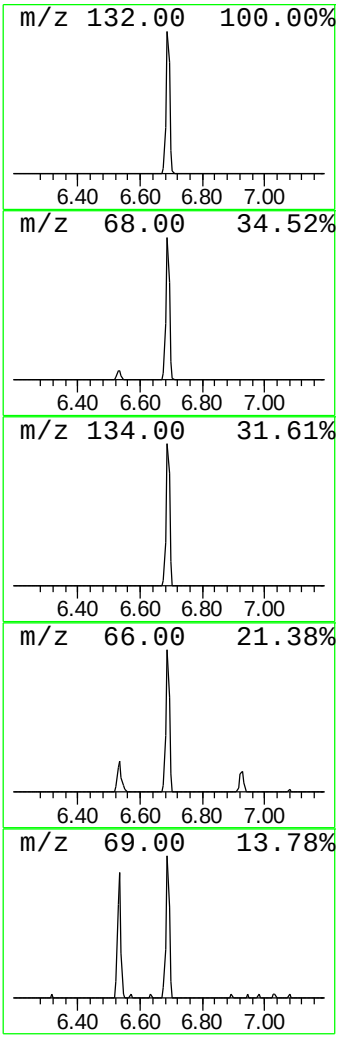
****

Peak Number 1 unknown6.69 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.69	4.59 ng	193611	1,4-Dichlorobenzene-d4	6.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	N-(-phenylisopropyl)benzaldimine	223	C16H17N	1000379-01-3	10
2	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9
3	1,3,4-Thiadiazole-2(3H)-thione, ...	132	C3H4N2S2	029490-19-5	9
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
5	5-Aminoindole	132	C8H8N2	005192-03-0	9





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Operator : SJ/JU
Sample : I5304-05 20X
Misc :
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Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

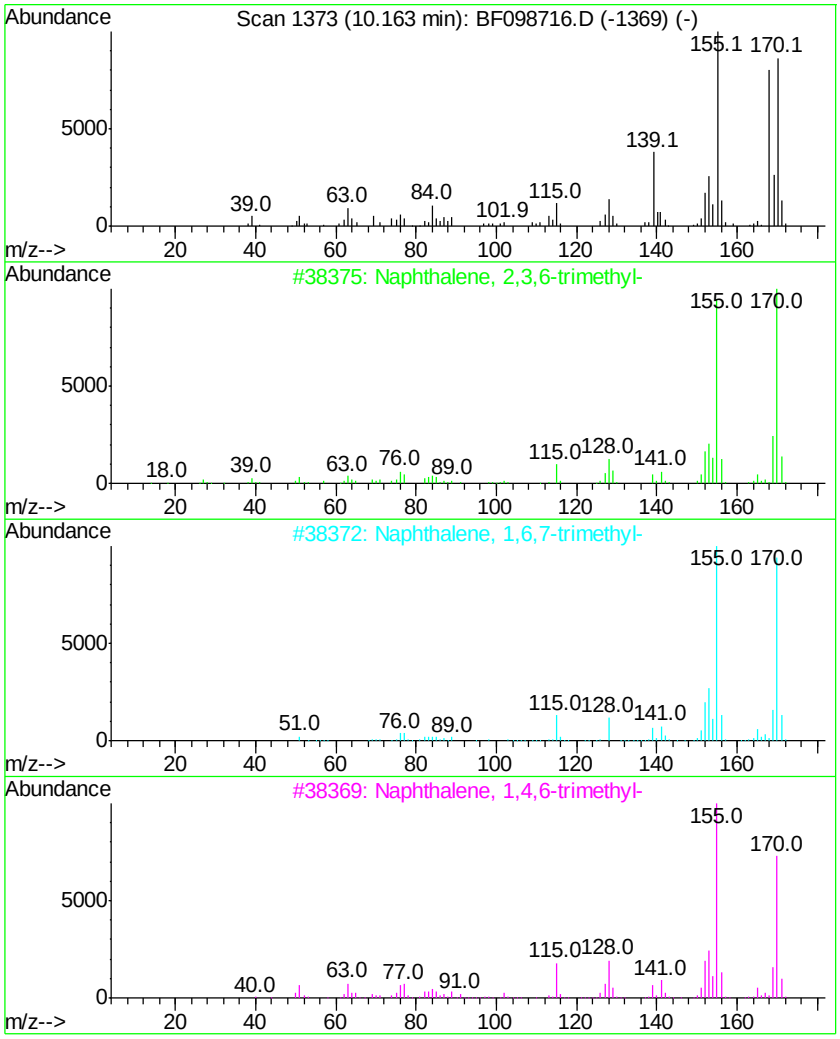
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

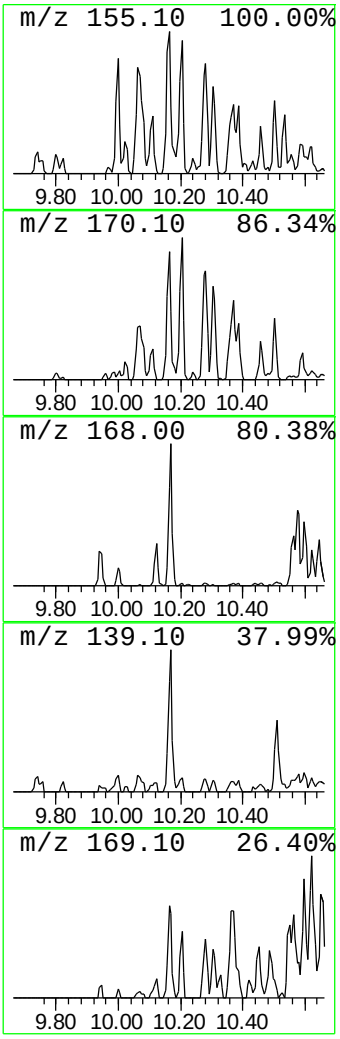
****

Peak Number 2 Naphthalene, 2,3,6-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.16	3.73 ng	190598	Acenaphthene-d10	9.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	95
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	91
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	86





Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
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Sample : I5304-05 20X
Misc :
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Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

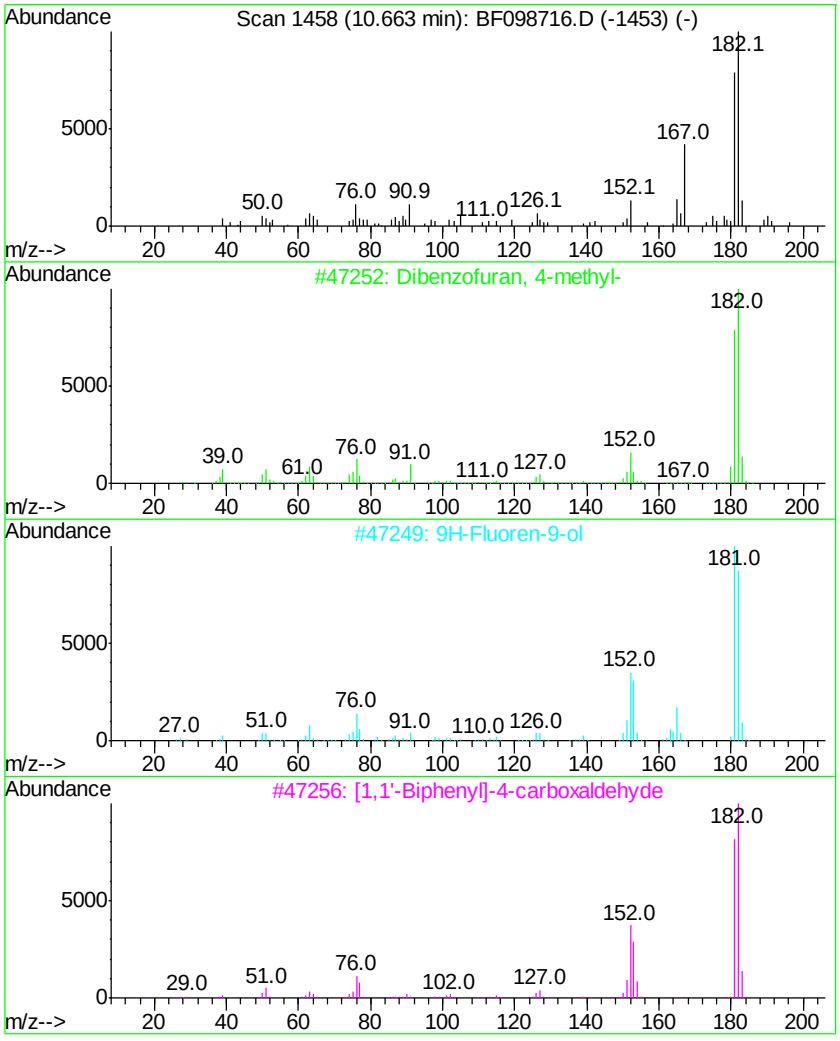
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

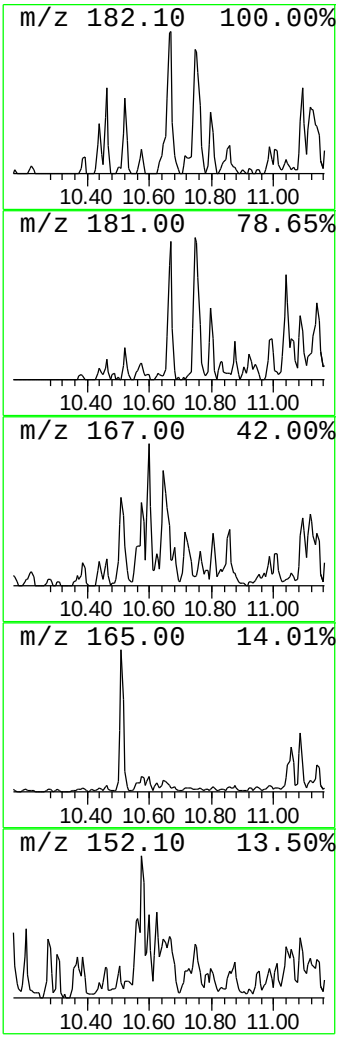
****

Peak Number 3 Dibenzofuran, 4-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.66	3.98 ng	203737	Acenaphthene-d10	9.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	89
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	72
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	59
4	2-Hydroxyfluorene	182	C13H10O	002443-58-5	58
5	Pyridine, 4,4'-(1,2-ethenediyl)bis-	182	C12H10N2	001135-32-6	52





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Data File : BF098716.D
Acq On : 23 Sep 2017 00:35
Operator : SJ/JU
Sample : I5304-05 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

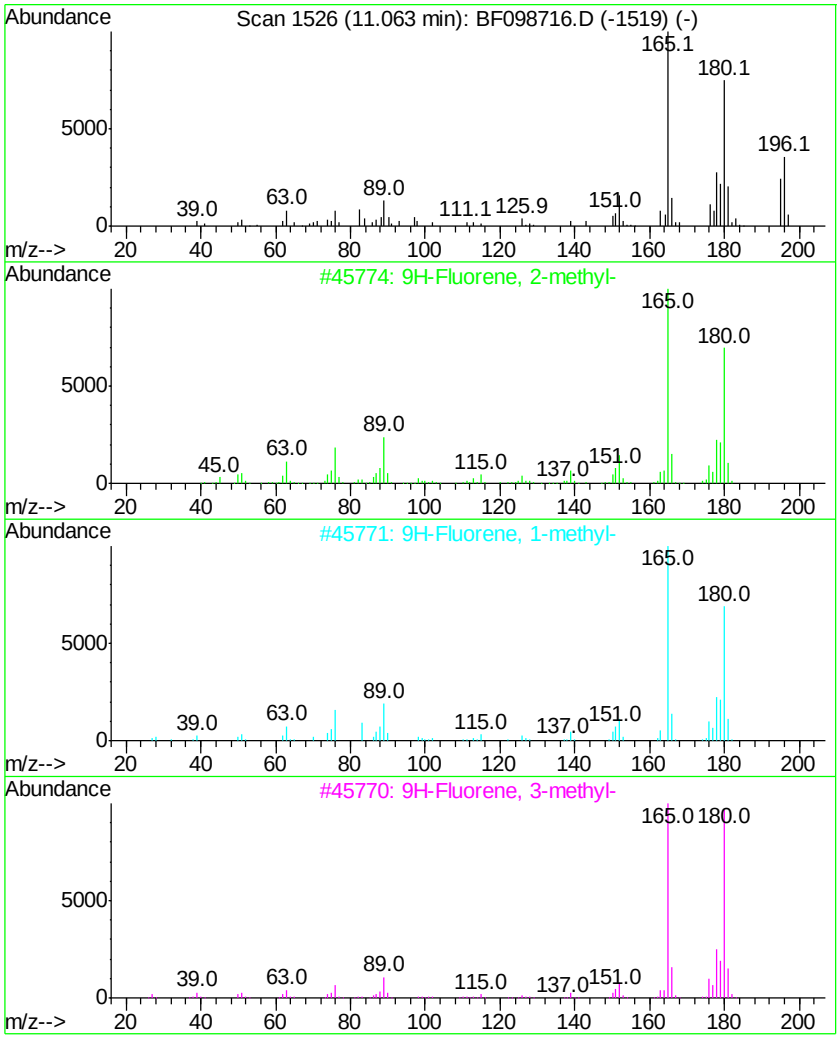
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

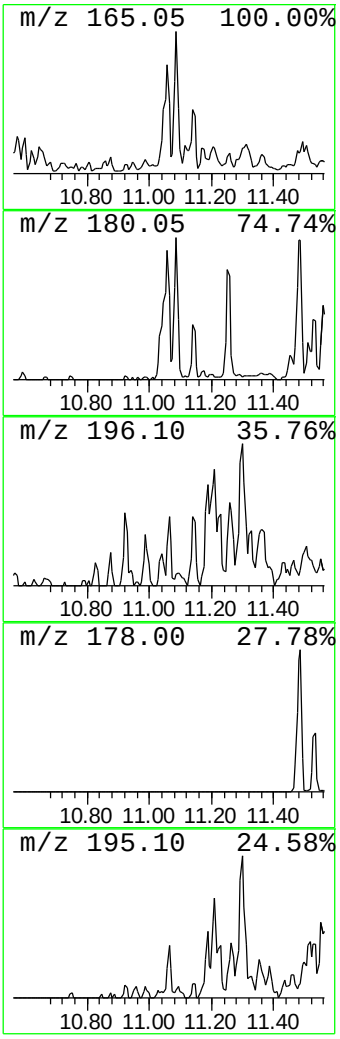
****

Peak Number 4 9H-Fluorene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.06	3.88 ng	178399	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	86
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	64





Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098716.D
Acq On : 23 Sep 2017 00:35
Operator : SJ/JU
Sample : I5304-05 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

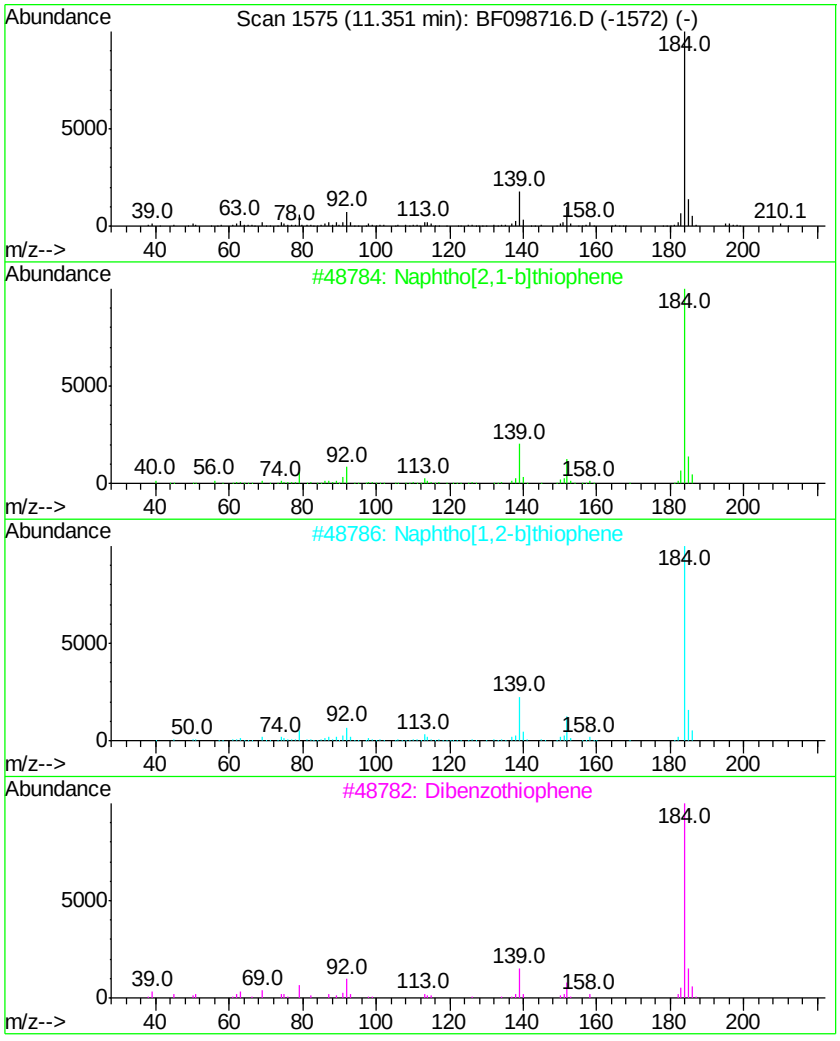
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

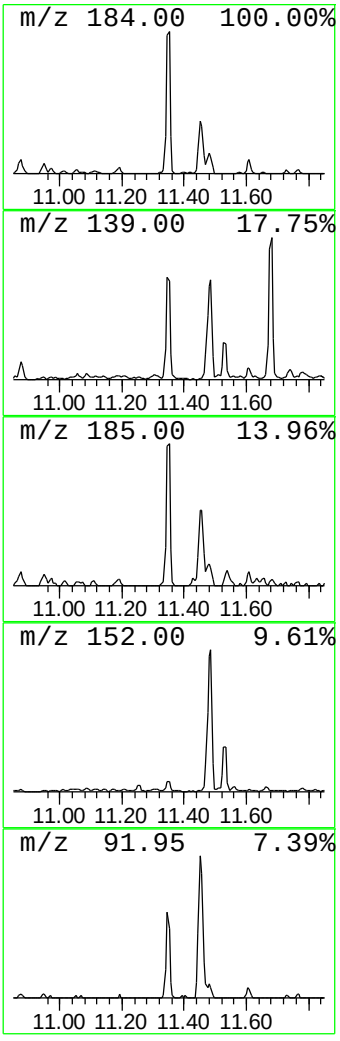
****

Peak Number 5 Naphtho[2,1-b]thiophene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.35	7.34 ng	337635	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	97
3	Dibenzothiophene	184	C12H8S	000132-65-0	96
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





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Acq On : 23 Sep 2017 00:35
Operator : SJ/JU
Sample : I5304-05 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.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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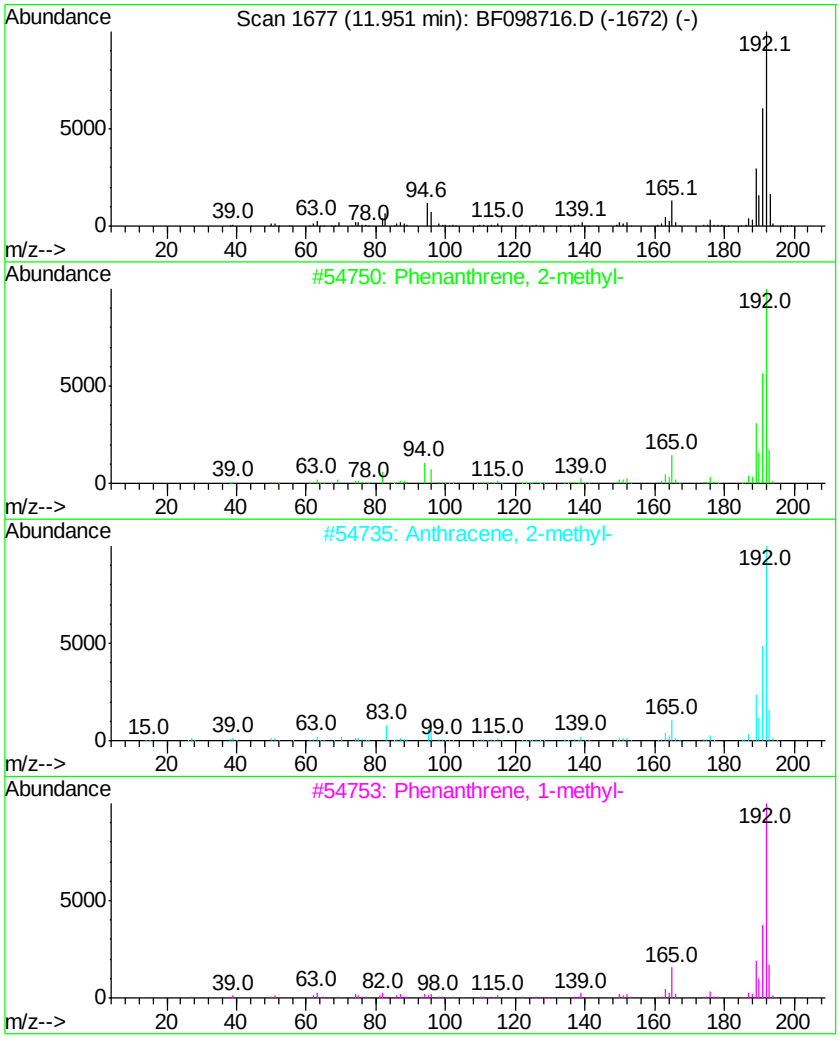
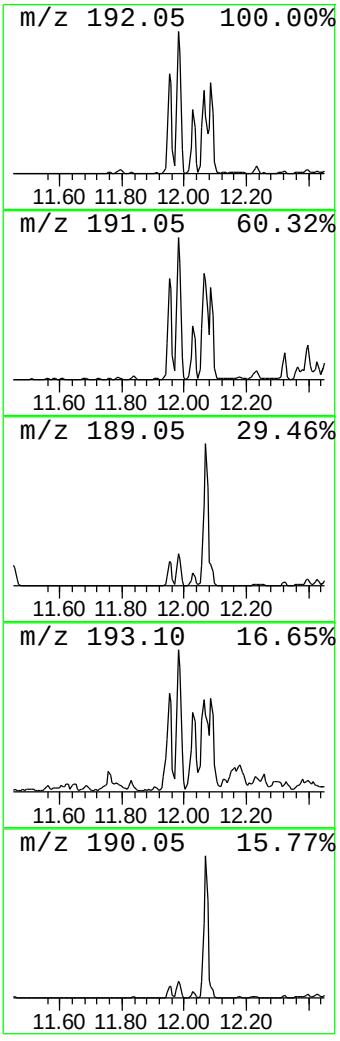
Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	15.17 ng	698296	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	94





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Operator : SJ/JU
Sample : I5304-05 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.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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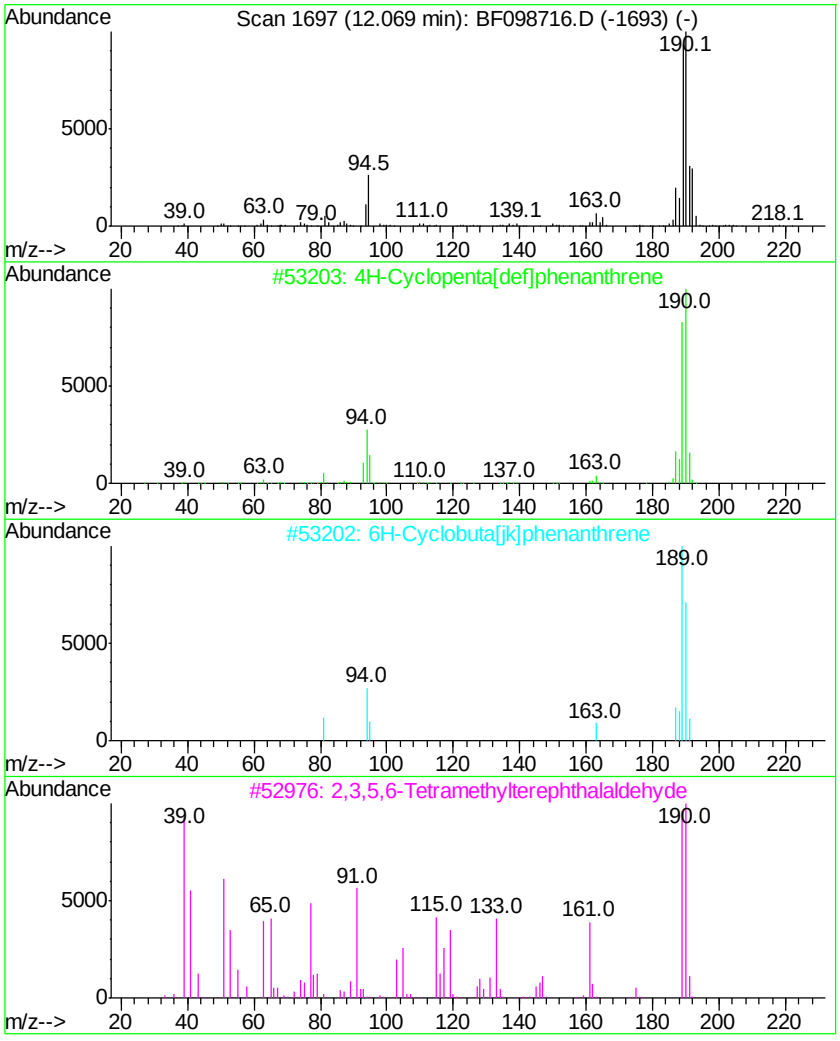
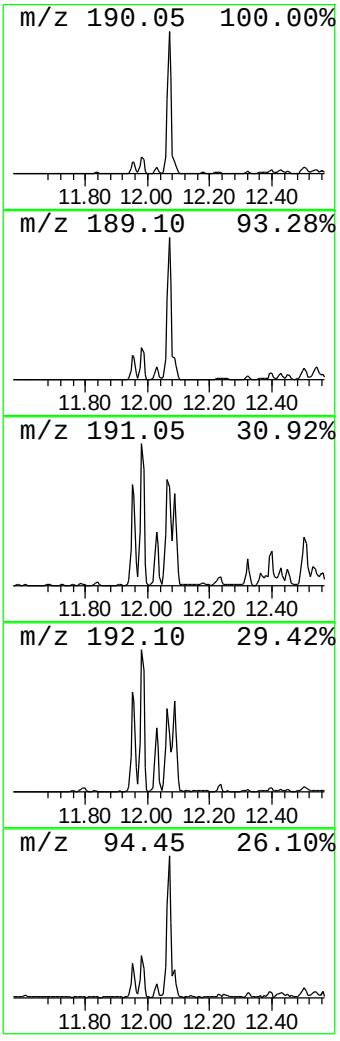
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	36.17 ng	1664560	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	Methyl diselenide	190	C2H6Se2	007101-31-7	49
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	33





Library Search Compound Report

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Acq On : 23 Sep 2017 00:35
Operator : SJ/JU
Sample : I5304-05 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

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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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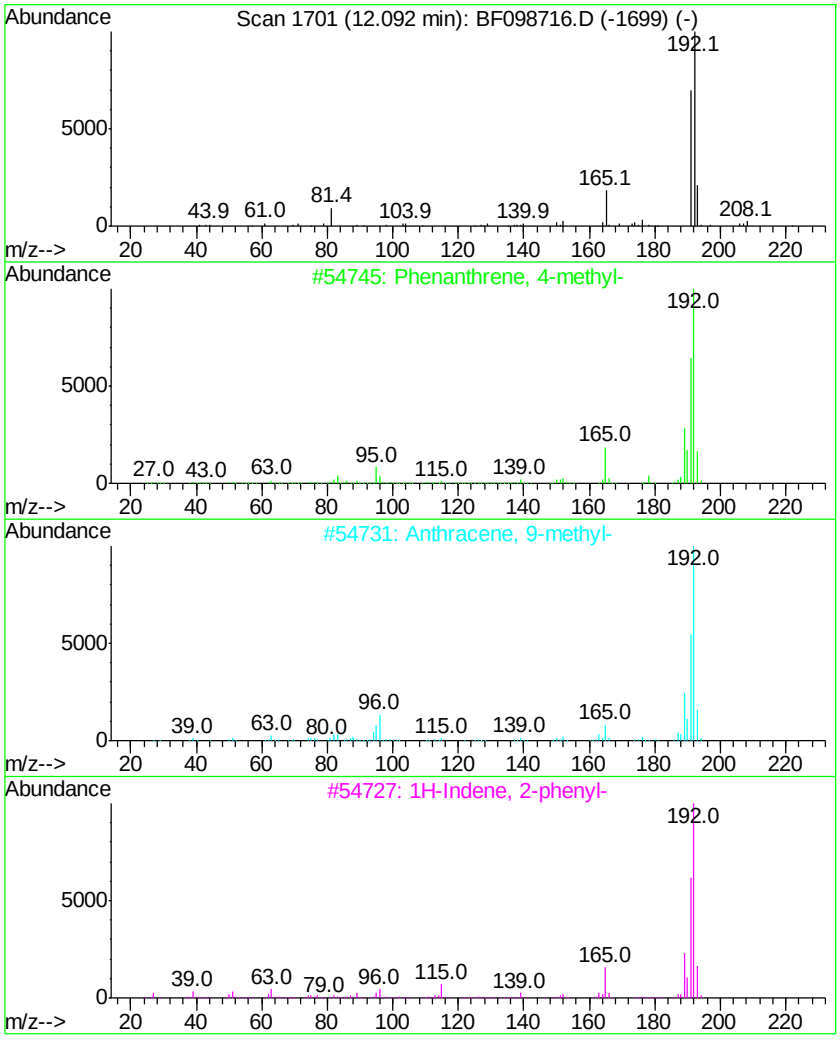
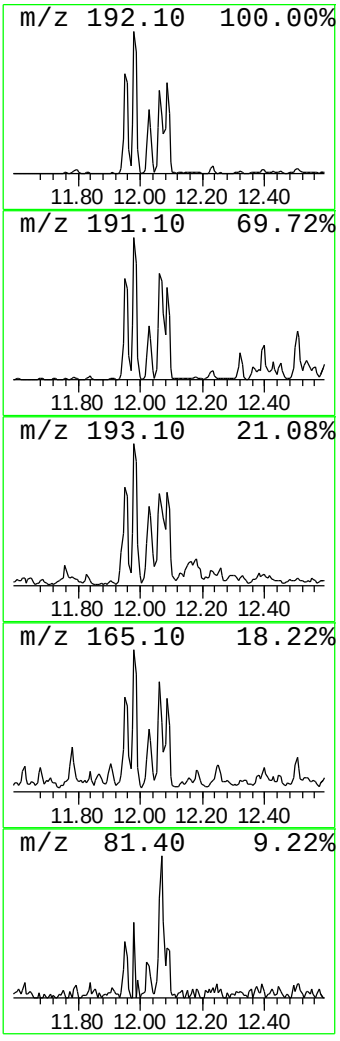
Peak Number 10 Phenanthrene, 4-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	8.18 ng	376335	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	83
4	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	83
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	83





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Acq On : 23 Sep 2017 00:35
Operator : SJ/JU
Sample : I5304-05 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.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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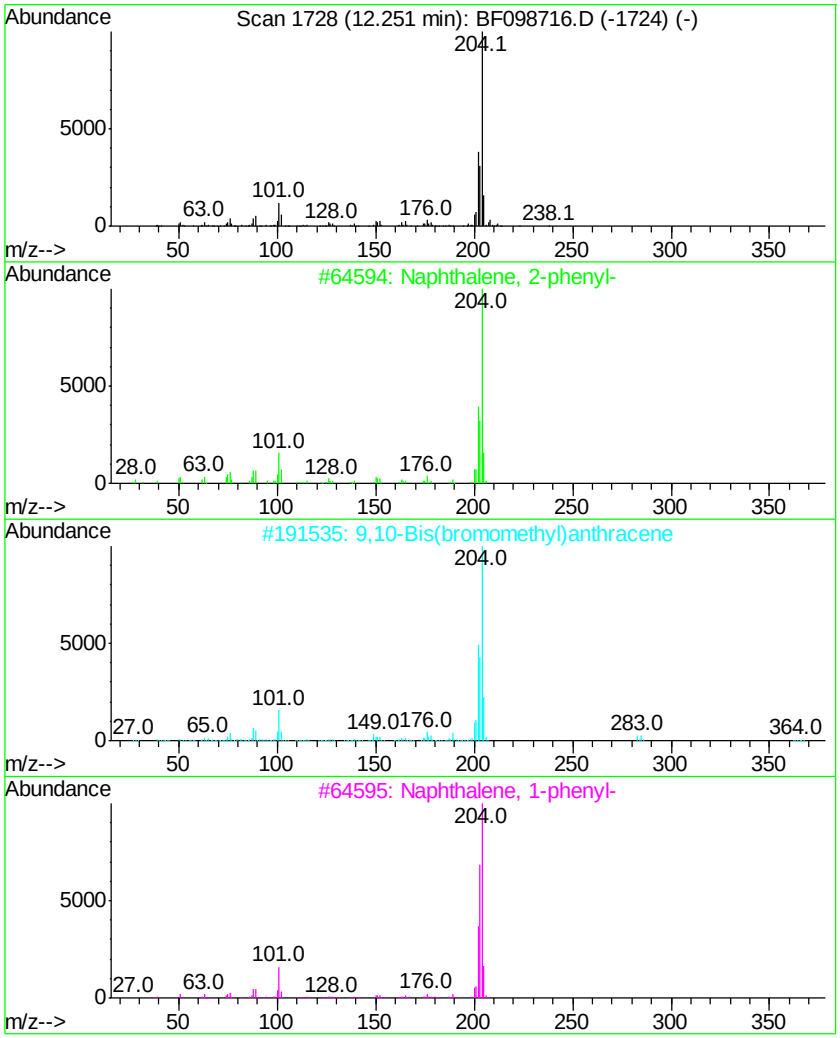
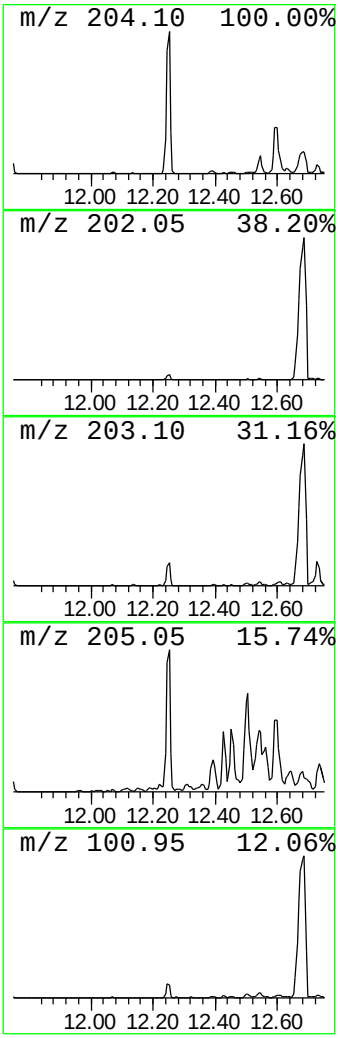
Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	15.24 ng	701450	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	62
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	55
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	53
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	52





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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
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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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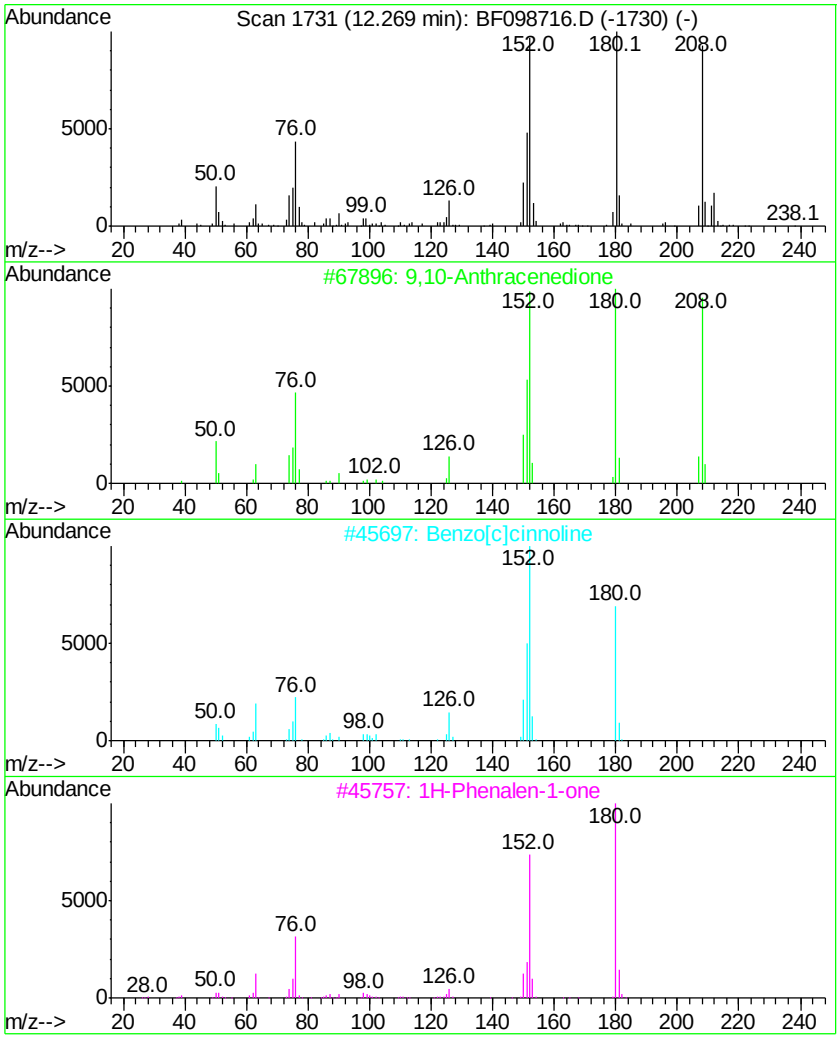
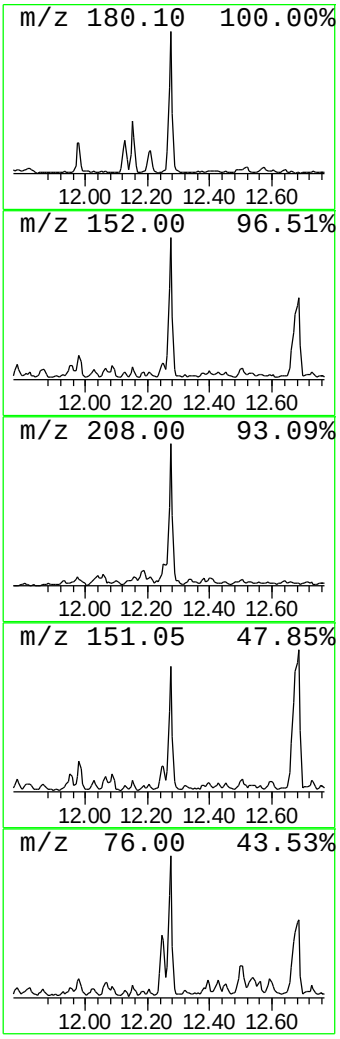
Peak Number 12 9,10-Anthracenedione Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	7.44 ng	342320	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	55
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	49
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	41





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Sample : I5304-05 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

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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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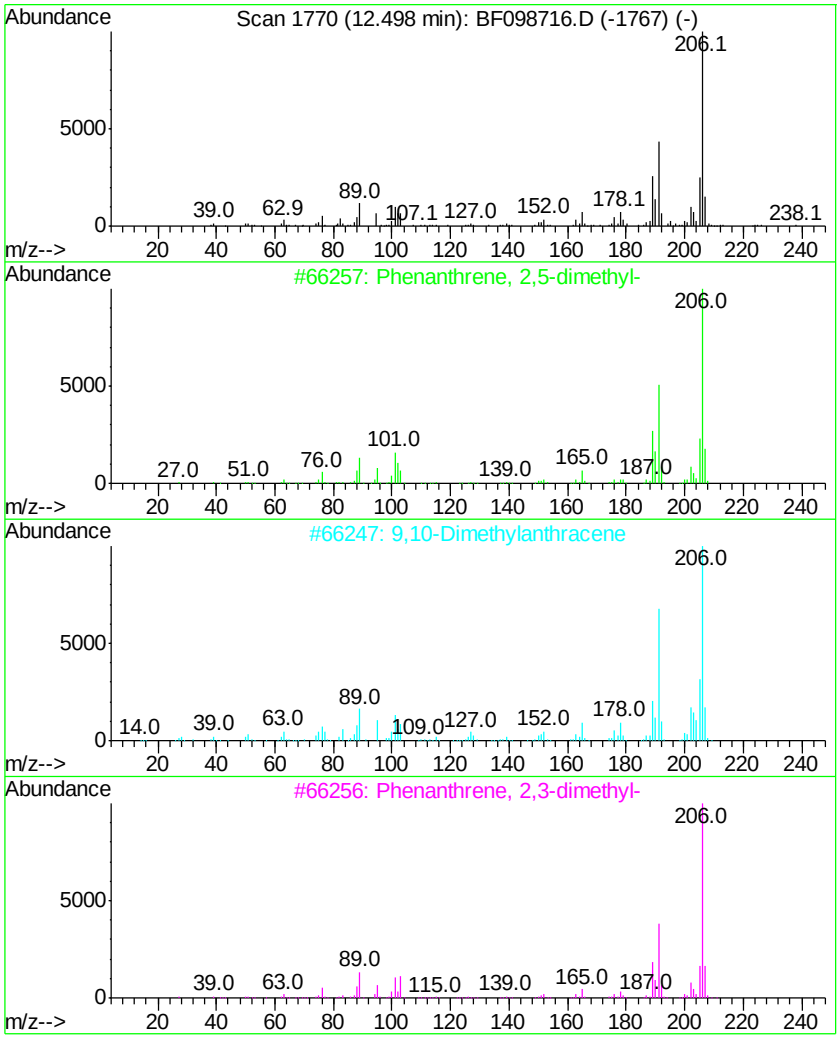
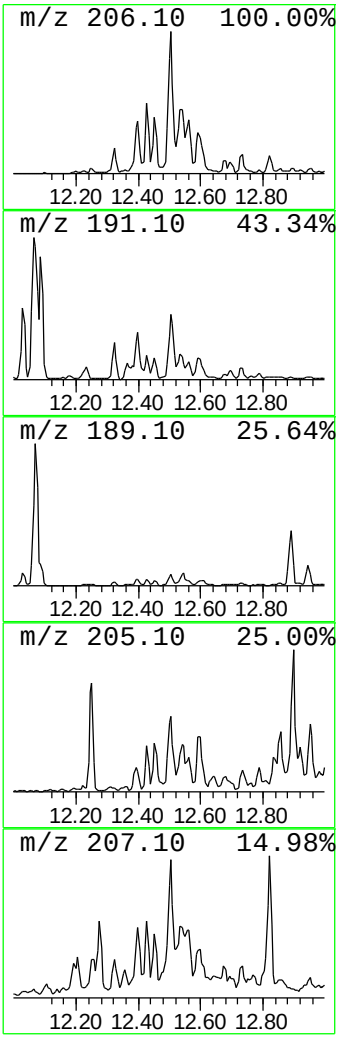
Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.50	11.08 ng	510140	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90





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Operator : SJ/JU
Sample : I5304-05 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.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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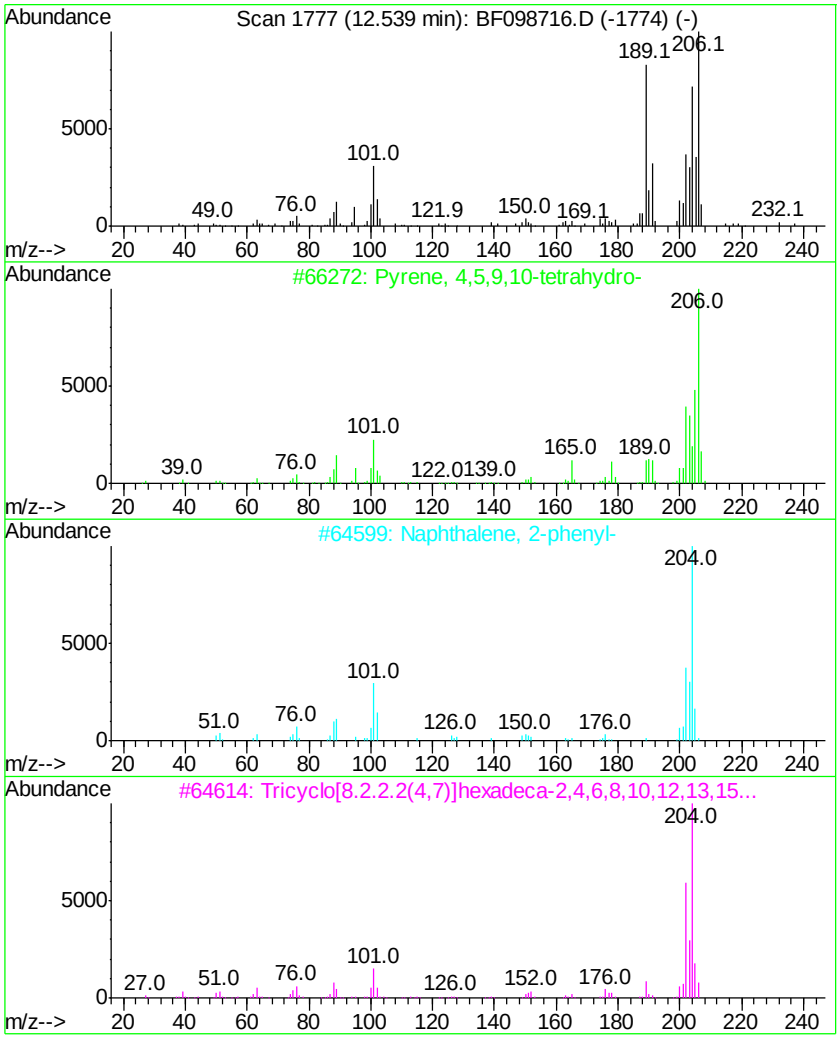
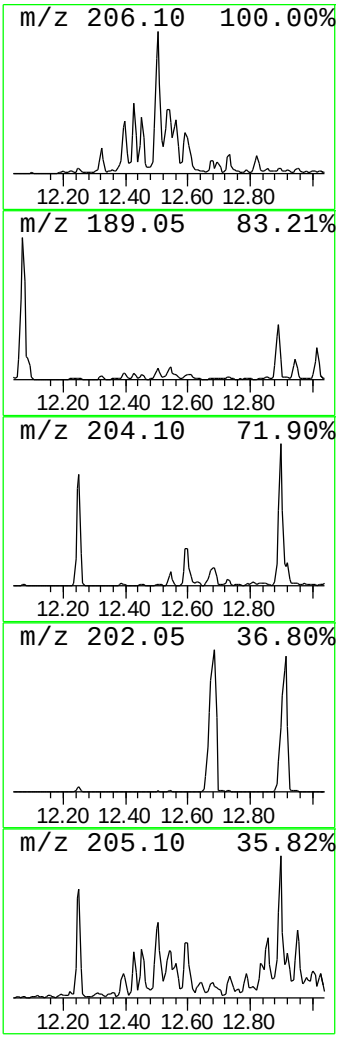
Peak Number 14 unknown12.54 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.54	6.47 ng	297922	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	46
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	35
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	30
4	3-Benzofurancarboxylic acid, 2-e...	204	C12H12O3	040800-94-0	27
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	25





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Sample : I5304-05 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.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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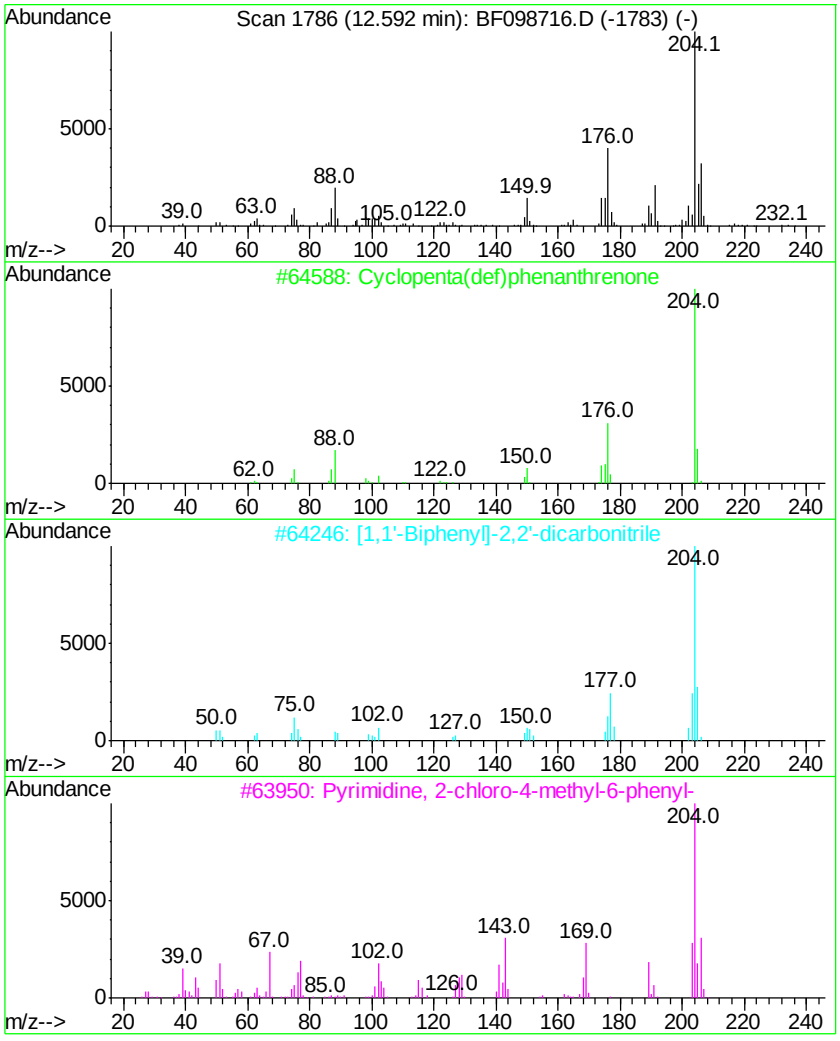
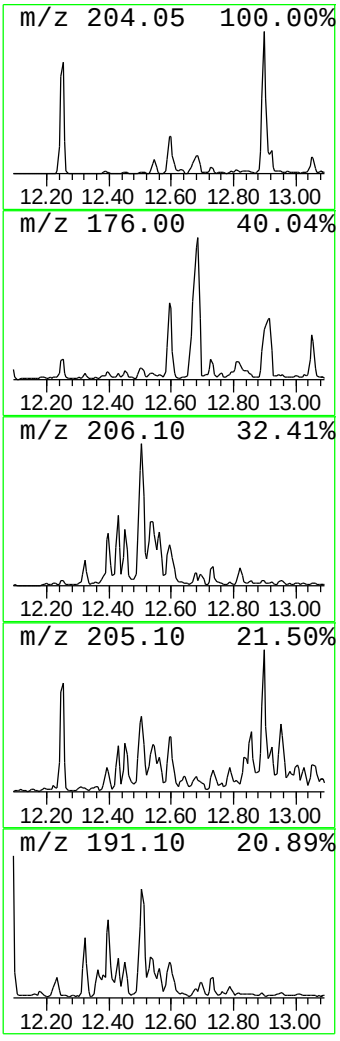
Peak Number 15 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.59	9.16 ng	421378	Phenanthrene-d10	11.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	46
3	Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	43
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	38
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	38





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Misc :
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Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

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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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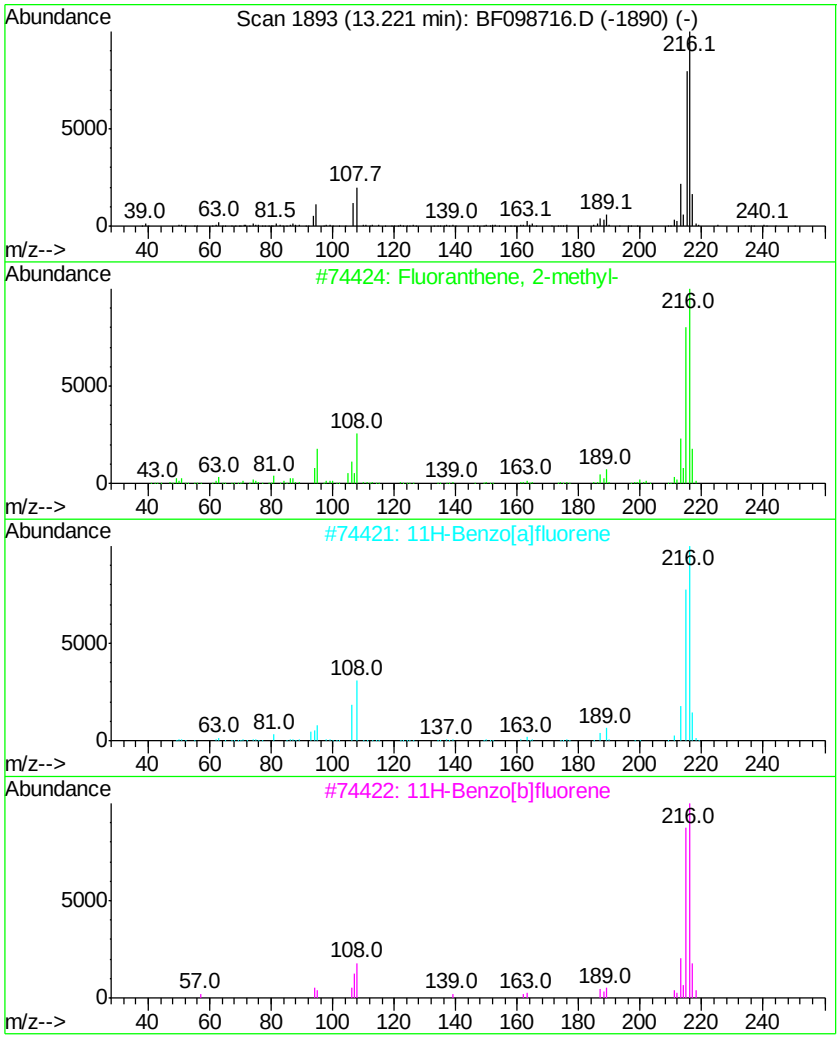
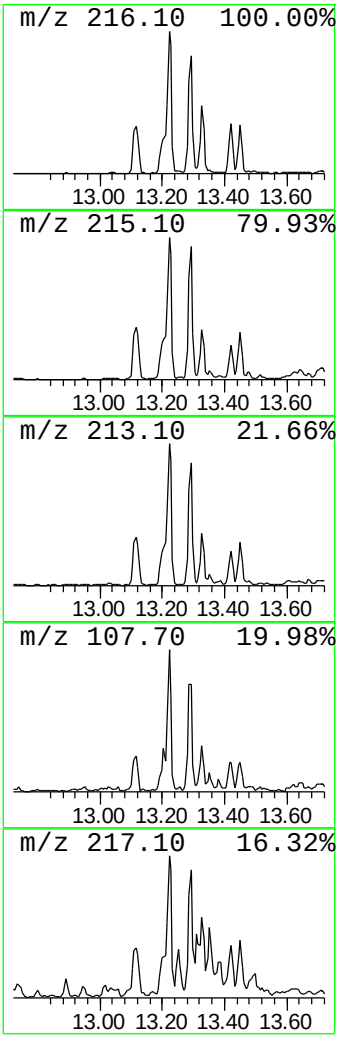
Peak Number 16 Fluoranthene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.22	4.40 ng	1247940	Chrysene-d12	14.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	96
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	87
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	81





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Misc :
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Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

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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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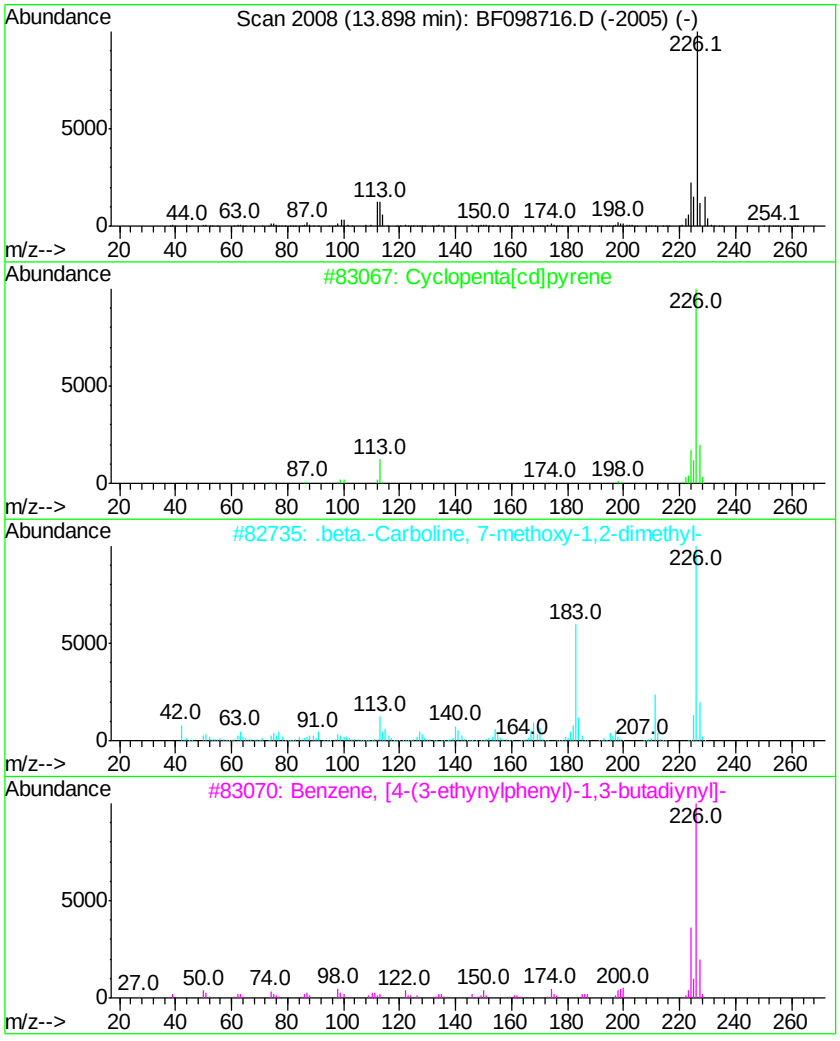
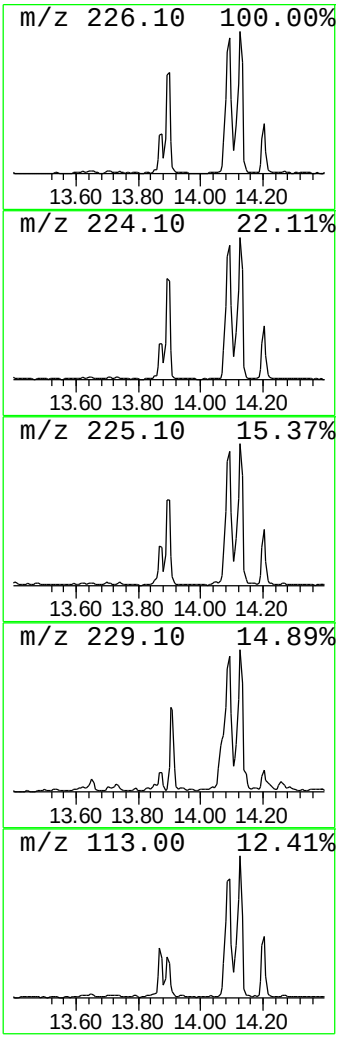
Peak Number 17 Cyclopenta[cd]pyrene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.90	3.62 ng	1027310	Chrysene-d12	14.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	64
2	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	47
3	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	43
4	1,3-Diamino-5,6-dihydro-9-methyl...	226	C13H14N4	037436-39-8	40
5	1-Isopropoxy-2-phenylmethtylbenzene	226	C16H18O	080227-92-5	38





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

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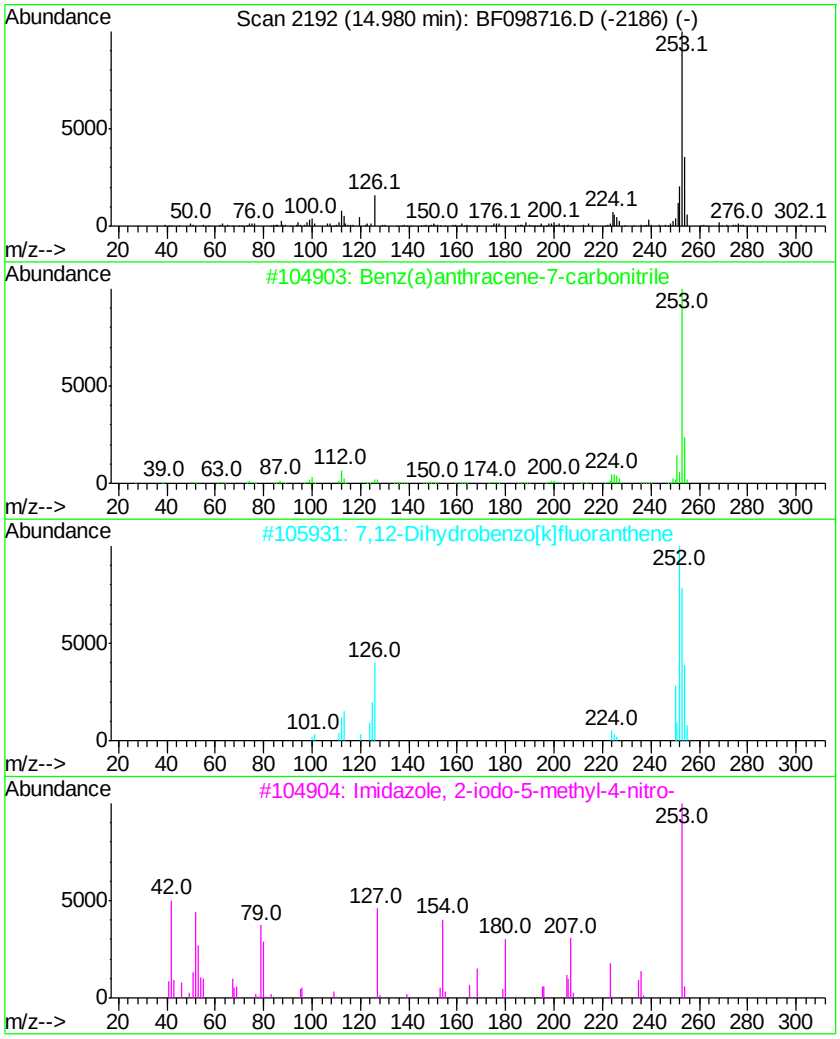
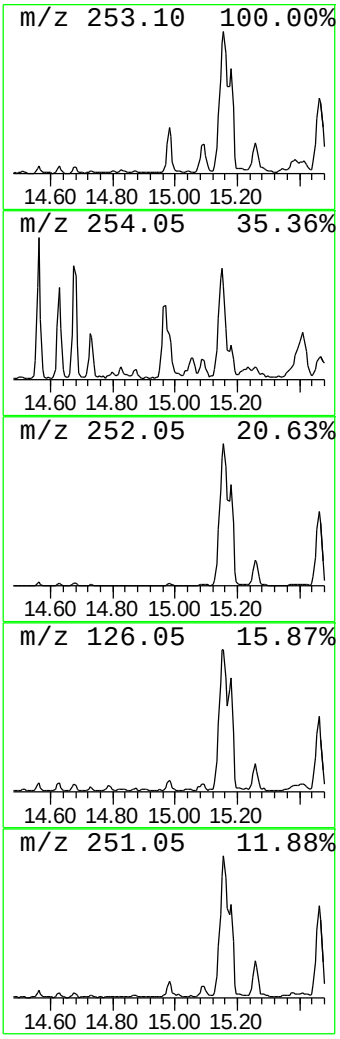
Peak Number 18 Benz(a)anthracene-7-carboni... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.98	7.25 ng	331726	Perylene-d12	15.59

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	94
2	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	42
3	Imidazole, 2-iodo-5-methyl-4-nitro-	253	C4H4IN3O2	149510-86-1	38
4	2(1H)-Quinolinone, 3-hydroxy-4-(...	253	C15H11NO3	014484-44-7	33
5	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	32





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092217\
Data File : BF098716.D
Acq On : 23 Sep 2017 00:35
Operator : SJ/JU
Sample : I5304-05 20X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SASP2P-ENV-118-6(5-10)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown6.69	6.69	4.6	ng	193611	1	6.93	843818	20.0
Naphthalene, 2,3,...	10.16	3.7	ng	190598	3	9.96	1023260	20.0
Dibenzofuran, 4-m...	10.66	4.0	ng	203737	3	9.96	1023260	20.0
9H-Fluorene, 2-me...	11.06	3.9	ng	178399	4	11.45	920448	20.0
Naphtho[2,1-b]thi...	11.35	7.3	ng	337635	4	11.45	920448	20.0
Phenanthrene, 2-m...	11.95	15.2	ng	698296	4	11.45	920448	20.0
4H-Cyclopenta[def...	12.07	36.2	ng	1664560	4	11.45	920448	20.0
Phenanthrene, 4-m...	12.09	8.2	ng	376335	4	11.45	920448	20.0
Naphthalene, 2-ph...	12.25	15.2	ng	701450	4	11.45	920448	20.0
9,10-Anthracenedione	12.27	7.4	ng	342320	4	11.45	920448	20.0
Phenanthrene, 2,5...	12.50	11.1	ng	510140	4	11.45	920448	20.0
unknown12.54	12.54	6.5	ng	297922	4	11.45	920448	20.0
Cyclopenta(def)ph...	12.59	9.2	ng	421378	4	11.45	920448	20.0
Fluoranthene, 2-m...	13.22	4.4	ng	1247940	5	14.10	5670690	20.0
Cyclopenta[cd]pyrene	13.90	3.6	ng	1027310	5	14.10	5670690	20.0
Benz(a)anthracene...	14.98	7.3	ng	331726	6	15.59	915076	20.0