LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
Data File : BF101317.D
Acq On : 12 Dec 2017 6:30
Operator : SJ/JU
Sample : I6764-10 2X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MAP-3-E(4-5)

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:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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	5.446	568	571	588	rBV	355963	395120	19.39%	1.697%
2	6.463	741	744	756	rBV	387684	439214	21.56%	1.887%
3	6.598	764	767	774	rBV	488648	431818	21.19%	1.855%
4	6.828	803	806	811	rBV	281264	230614	11.32%	0.991%
5	6.987	829	833	842	rVB	382892	342990	16.83%	1.473%
6	7.393	899	902	910	rBV	271196	236471	11.61%	1.016%
7	8.110	1021	1024	1027	rBV	326187	282487	13.86%	1.214%
8	8.134	1027	1028	1031	rVB	49905	30266	1.49%	0.130%
9	9.187	1203	1207	1210	rBV	598124	462172	22.68%	1.985%
10	9.581	1271	1274	1280	rVB2	44288	48609	2.39%	0.209%
11	9.734	1296	1300	1306	rBV	327024	268316	13.17%	1.153%
12	9.869	1320	1323	1327	rBV2	316532	268292	13.17%	1.153%
13	9.904	1327	1329	1332	rVB	47163	34482	1.69%	0.148%
14	10.075	1355	1358	1361	rVB2	38056	30837	1.51%	0.132%
15	10.286	1386	1394	1398	rBV3	25801	33813	1.66%	0.145%
16	10.422	1414	1417	1421	rVB	53853	53605	2.63%	0.230%
17	10.663	1451	1458	1463	rBV2	246820	226791	11.13%	0.974%
18	10.763	1472	1475	1478	rBV2	24836	30394	1.49%	0.131%
19	11.116	1533	1535	1542	rVV2	30815	45028	2.21%	0.193%
20	11.169	1542	1544	1548	rVV	66814	63307	3.11%	0.272%
21	11.210	1548	1551	1554	rVV2	38913	43280	2.12%	0.186%
22	11.257	1557	1559	1564	rVB	54802	47253	2.32%	0.203%
23	11.363	1573	1577	1579	rBV	303559	268906	13.20%	1.155%
24	11.392	1579	1582	1585	rVV	856519	755066	37.06%	3.244%
25	11.439	1587	1590	1593	rVV	305316	252412	12.39%	1.084%
26	11.475	1593	1596	1601	rVB2	36066	42752	2.10%	0.184%
27	11.598	1612	1617	1621	rBV2	115729	137333	6.74%	0.590%
28	11.651	1625	1626	1629	rVV	36023	30922	1.52%	0.133%
29	11.698	1631	1634	1638	rVB3	34754	45306	2.22%	0.195%
30	11.763	1643	1645	1652	rVB2	57793	68366	3.36%	0.294%
31	11.863	1658	1662	1665	rBV	150237	150379	7.38%	0.646%
32	11.892	1665	1667	1672	rVV	204823	184771	9.07%	0.794%
33	11.939	1672	1675	1678	rVB	78289	71796	3.52%	0.308%
34	11.980	1678	1682	1684	rBV2	242015	268065	13.16%	1.152%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
Data File : BF101317.D
Acq On : 12 Dec 2017 6:30
Operator : SJ/JU
Sample : I6764-10 2X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MAP-3-E(4-5)

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:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.998	1684	1685	1690	rVB	123523	90395	4.44%	0.388%
36	12.045	1690	1693	1696	rBV2	41692	38380	1.88%	0.165%
37	12.157	1709	1712	1716	rVV	131661	116547	5.72%	0.501%
38	12.198	1716	1719	1722	rVB	152855	126600	6.21%	0.544%
39	12.304	1732	1737	1741	rBV4	45813	71962	3.53%	0.309%
40	12.339	1741	1743	1745	rVV	49957	36710	1.80%	0.158%
41	12.369	1745	1748	1750	rVB	40468	35494	1.74%	0.152%
42	12.416	1750	1756	1759	rBV	135574	154844	7.60%	0.665%
43	12.457	1759	1763	1765	rVV2	84596	107150	5.26%	0.460%
44	12.516	1768	1773	1776	rVB2	149086	159874	7.85%	0.687%
45	12.592	1781	1786	1789	rBV	1732696	1861178	91.34%	7.995%
46	12.622	1789	1791	1793	rVB	37166	27702	1.36%	0.119%
47	12.645	1793	1795	1798	rVB	56281	50602	2.48%	0.217%
48	12.680	1798	1801	1804	rVB	143679	120947	5.94%	0.520%
49	12.733	1804	1810	1812	rBV3	106762	142819	7.01%	0.614%
50	12.757	1812	1814	1818	rVB2	45990	50531	2.48%	0.217%
51	12.822	1818	1825	1829	rBV2	1562685	2037546	100.00%	8.753%
52	12.863	1829	1832	1836	rVB2	103402	109802	5.39%	0.472%
53	12.945	1839	1846	1849	rBV2	446218	536415	26.33%	2.304%
54	12.975	1849	1851	1856	rVB	143033	136872	6.72%	0.588%
55	13.033	1856	1861	1865	rBV2	163844	280139	13.75%	1.203%
56	13.122	1872	1876	1877	rBV2	139526	180132	8.84%	0.774%
57	13.139	1877	1879	1882	rVB	209662	202366	9.93%	0.869%
58	13.180	1882	1886	1888	rBV5	22310	33597	1.65%	0.144%
59	13.210	1888	1891	1893	rBV	100986	96922	4.76%	0.416%
60	13.245	1893	1897	1900	rVV2	188601	230357	11.31%	0.990%
61	13.298	1904	1906	1910	rBV2	37233	44646	2.19%	0.192%
62	13.339	1910	1913	1915	rBV	149227	122719	6.02%	0.527%
63	13.369	1915	1918	1922	rVB2	109416	111809	5.49%	0.480%
64	13.510	1940	1942	1945	rBV3	29074	35681	1.75%	0.153%
65	13.563	1949	1951	1954	rVB2	44158	33955	1.67%	0.146%
66	13.657	1964	1967	1970	rBV	234088	206289	10.12%	0.886%
67	13.710	1974	1976	1980	rVB	32989	32847	1.61%	0.141%
68	13.763	1981	1985	1988	rBV	207109	246375	12.09%	1.058%
69	13.792	1988	1990	1992	rVV	157654	127261	6.25%	0.547%
70	13.822	1992	1995	2000	rVB3	157326	235893	11.58%	1.013%
71	13.869	2000	2003	2009	rVB	221780	210436	10.33%	0.904%

LSC Area Percent Report

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Acq On : 12 Dec 2017 6:30
Operator : SJ/JU
Sample : I6764-10 2X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MAP-3-E(4-5)

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:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.933	2010	2014	2018	rBV	56606	88207	4.33%	0.379%
73	13.974	2018	2021	2022	rBV	39472	31684	1.56%	0.136%
74	14.016	2022	2028	2031	rBV2	937142	1382228	67.84%	5.938%
75	14.051	2031	2034	2037	rVV	935468	826431	40.56%	3.550%
76	14.127	2044	2047	2049	rBV	115433	105232	5.16%	0.452%
77	14.169	2052	2054	2057	rBV	84183	81244	3.99%	0.349%
78	14.245	2063	2067	2070	rVB2	87865	125250	6.15%	0.538%
79	14.280	2070	2073	2075	rVV3	54217	51899	2.55%	0.223%
80	14.369	2085	2088	2090	rBV2	86676	95825	4.70%	0.412%
81	14.404	2090	2094	2097	rVV	223155	220673	10.83%	0.948%
82	14.439	2097	2100	2101	rVV	79823	66636	3.27%	0.286%
83	14.480	2105	2107	2109	rVB2	50514	38220	1.88%	0.164%
84	14.504	2109	2111	2113	rVB	37969	28979	1.42%	0.124%
85	14.533	2113	2116	2117	rBV	102304	100210	4.92%	0.430%
86	14.598	2125	2127	2130	rVB	60569	49065	2.41%	0.211%
87	14.651	2133	2136	2139	rBV2	25643	31635	1.55%	0.136%
88	14.727	2146	2149	2152	rBV3	51380	76017	3.73%	0.327%
89	14.904	2176	2179	2182	rBV2	125184	136756	6.71%	0.587%
90	15.074	2202	2208	2215	rBV	710642	1537195	75.44%	6.604%
91	15.180	2222	2226	2229	rBV	183651	199152	9.77%	0.856%
92	15.263	2237	2240	2245	rBV4	51395	101084	4.96%	0.434%
93	15.380	2255	2260	2266	rVB	440914	610308	29.95%	2.622%
94	15.445	2266	2271	2275	rBV	581873	760429	37.32%	3.267%
95	15.498	2277	2280	2283	rVV	127680	165013	8.10%	0.709%
96	15.533	2283	2286	2292	rVB2	203494	277034	13.60%	1.190%
97	17.004	2529	2536	2542	rVB2	302301	597537	29.33%	2.567%
98	17.163	2558	2563	2569	rBV2	61719	134888	6.62%	0.579%
99	17.462	2606	2614	2621	rBV	226094	484481	23.78%	2.081%
100	17.698	2648	2654	2660	rVB	48664	109653	5.38%	0.471%

Sum of corrected areas: 23277992

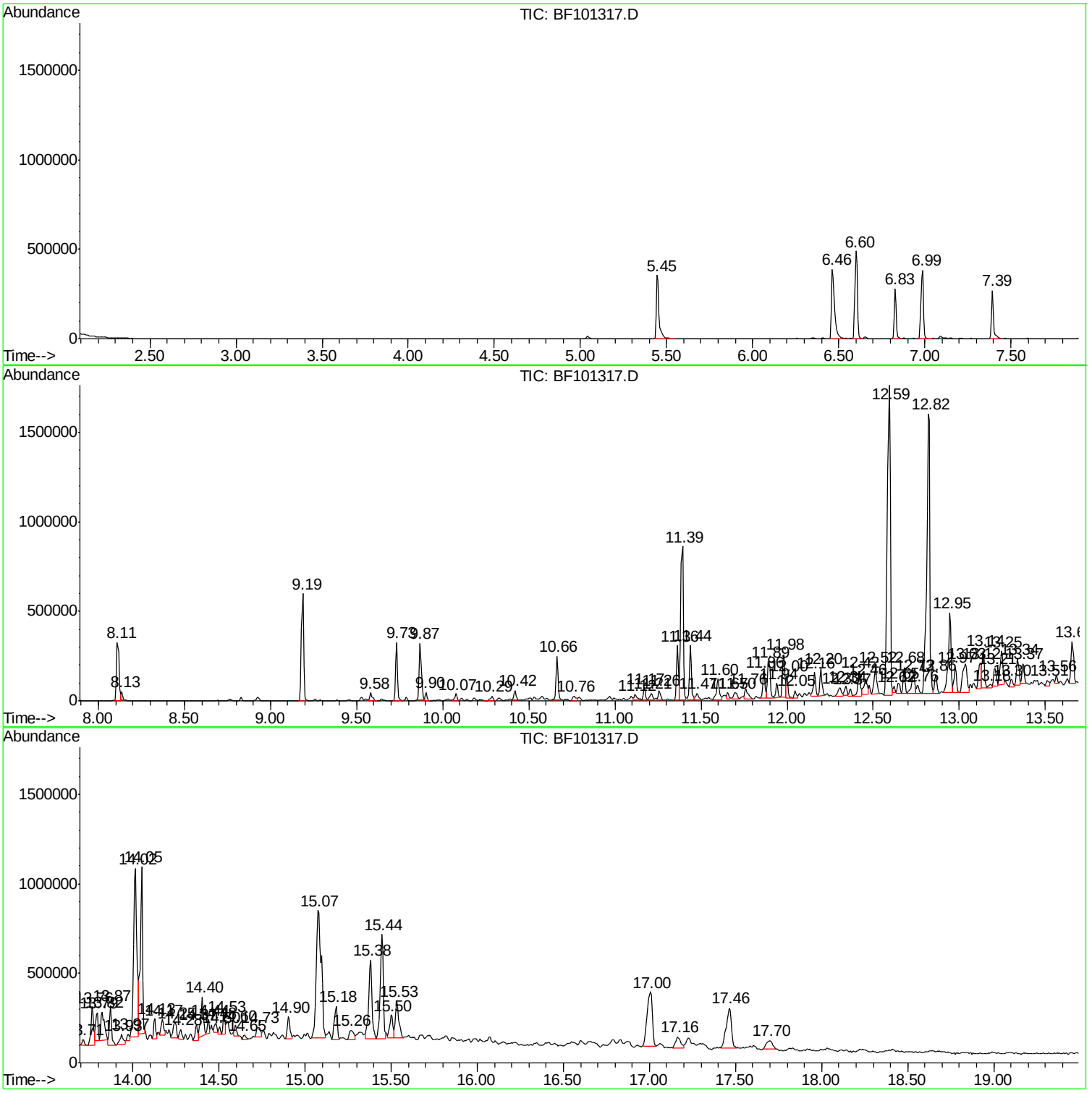
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
Data File : BF101317.D
Acq On : 12 Dec 2017 6:30
Operator : SJ/JU
Sample : I6764-10 2X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
MAP-3-E(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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\BF121117\
Data File : BF101317.D
Acq On : 12 Dec 2017 6:30
Operator : SJ/JU
Sample : I6764-10 2X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MAP-3-E(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

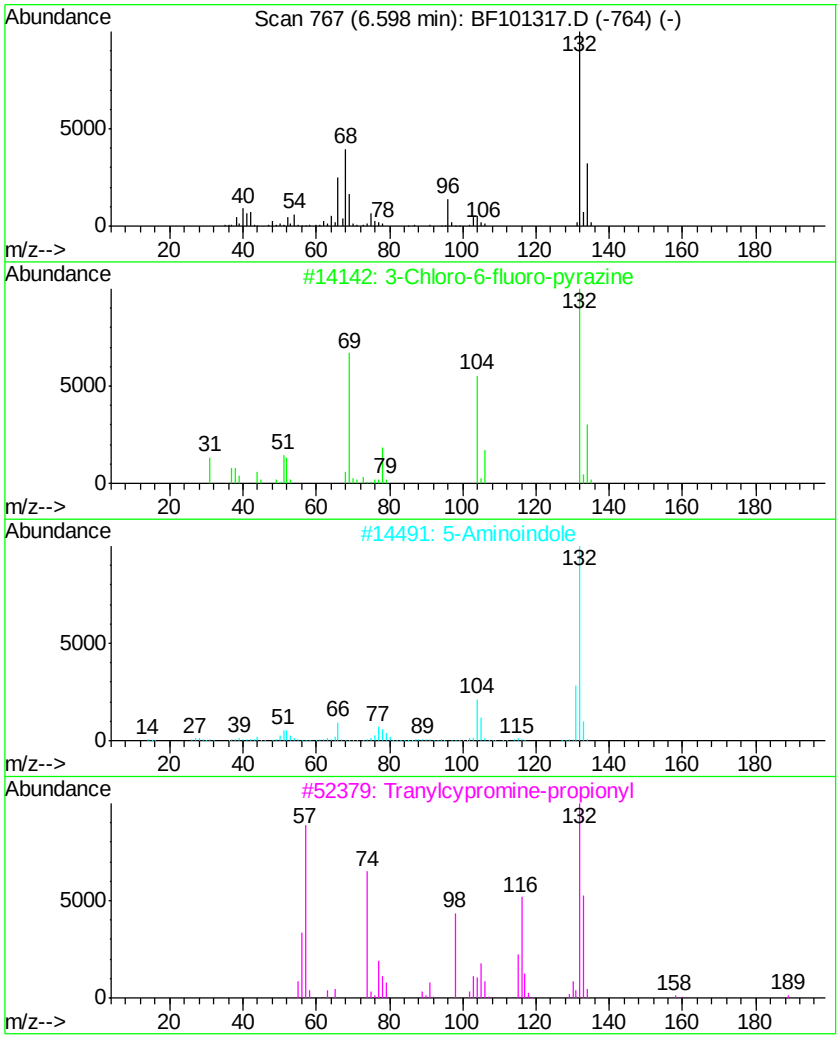
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

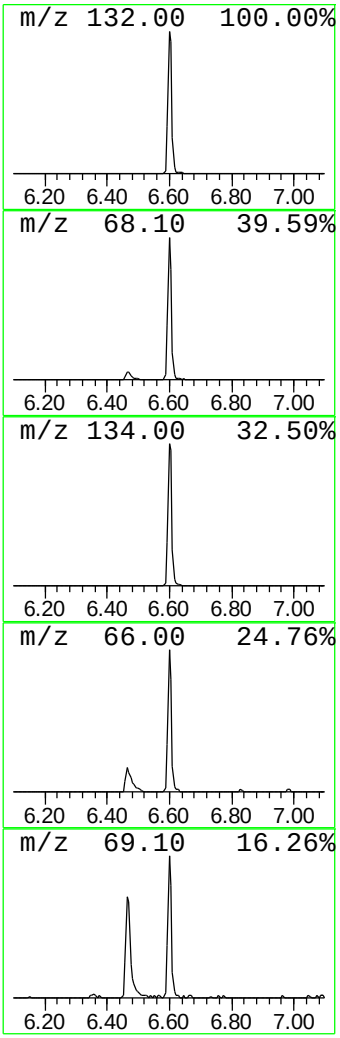
****

Peak Number 1 unknown6.60 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.60	37.45 ng	431818	1,4-Dichlorobenzene-d4	6.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
2	5-Aminoindole	132	C8H8N2	005192-03-0	12
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
Data File : BF101317.D
Acq On : 12 Dec 2017 6:30
Operator : SJ/JU
Sample : I6764-10 2X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MAP-3-E(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

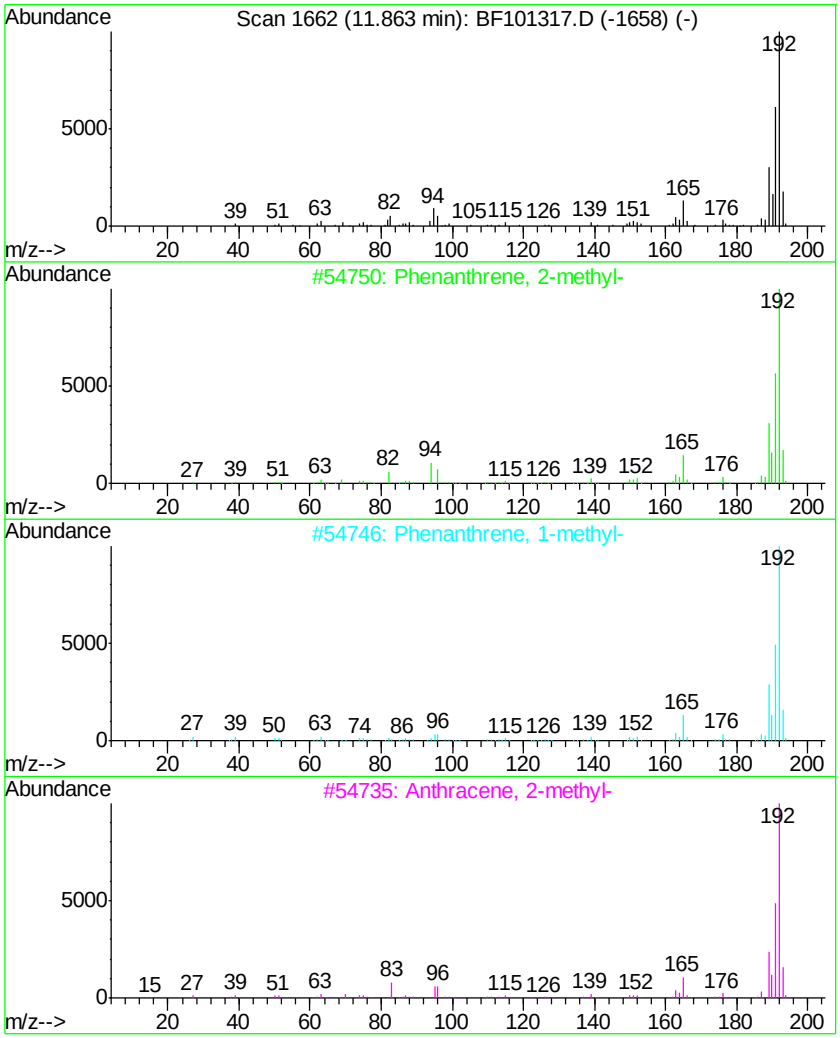
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

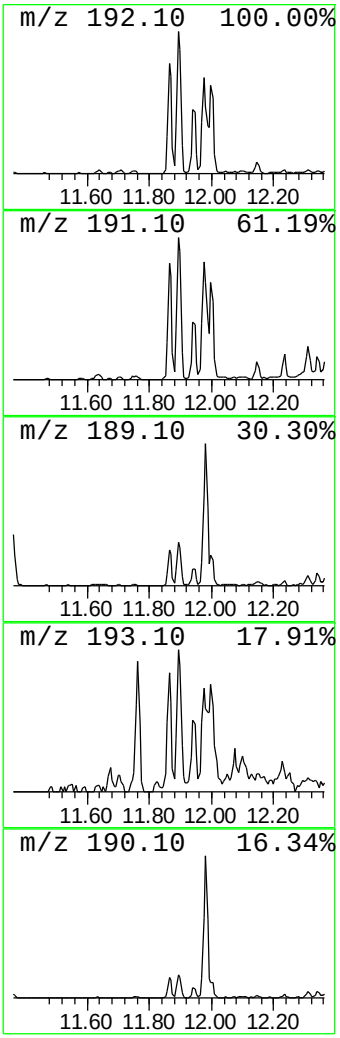
****

Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	11.18 ng	150379	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
Data File : BF101317.D
Acq On : 12 Dec 2017 6:30
Operator : SJ/JU
Sample : I6764-10 2X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MAP-3-E(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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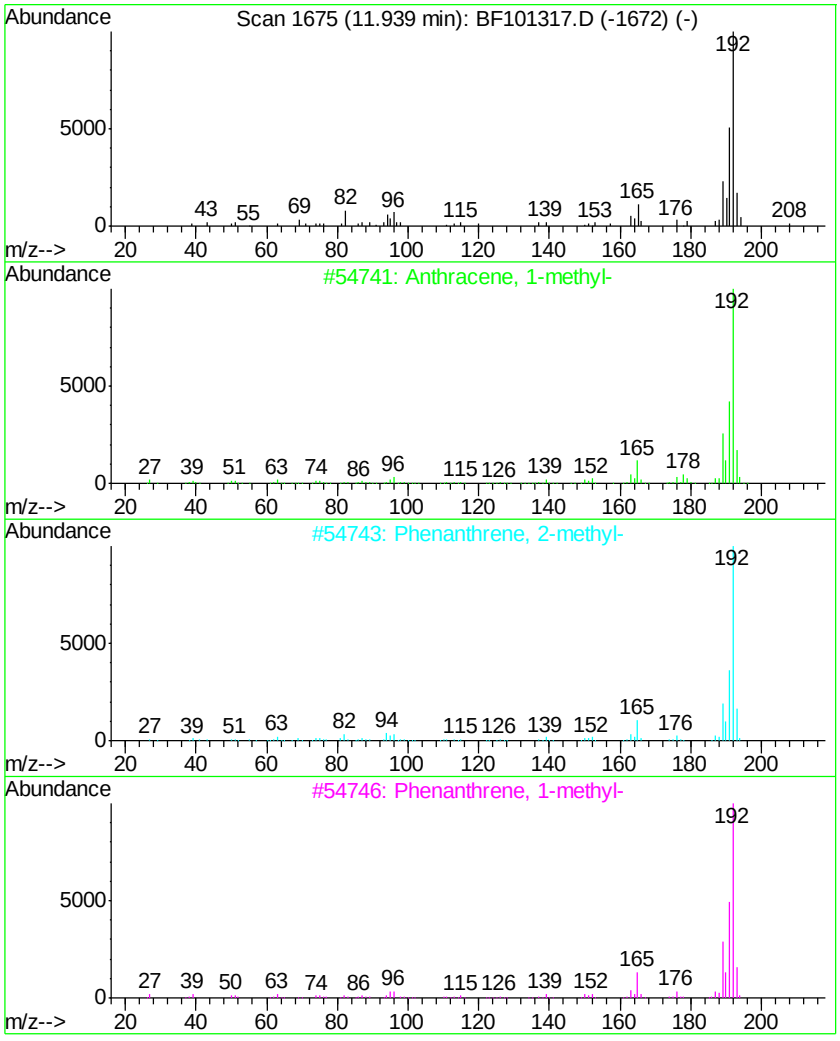
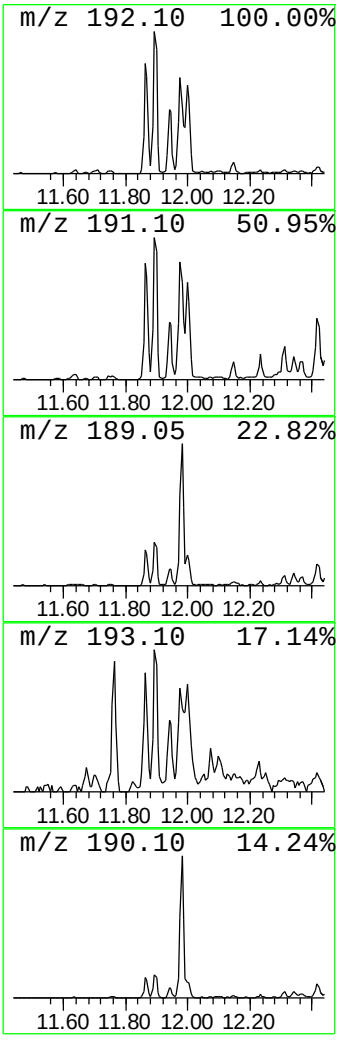
Peak Number 5 Anthracene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	5.34 ng	71796	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
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Operator : SJ/JU
Sample : I6764-10 2X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MAP-3-E(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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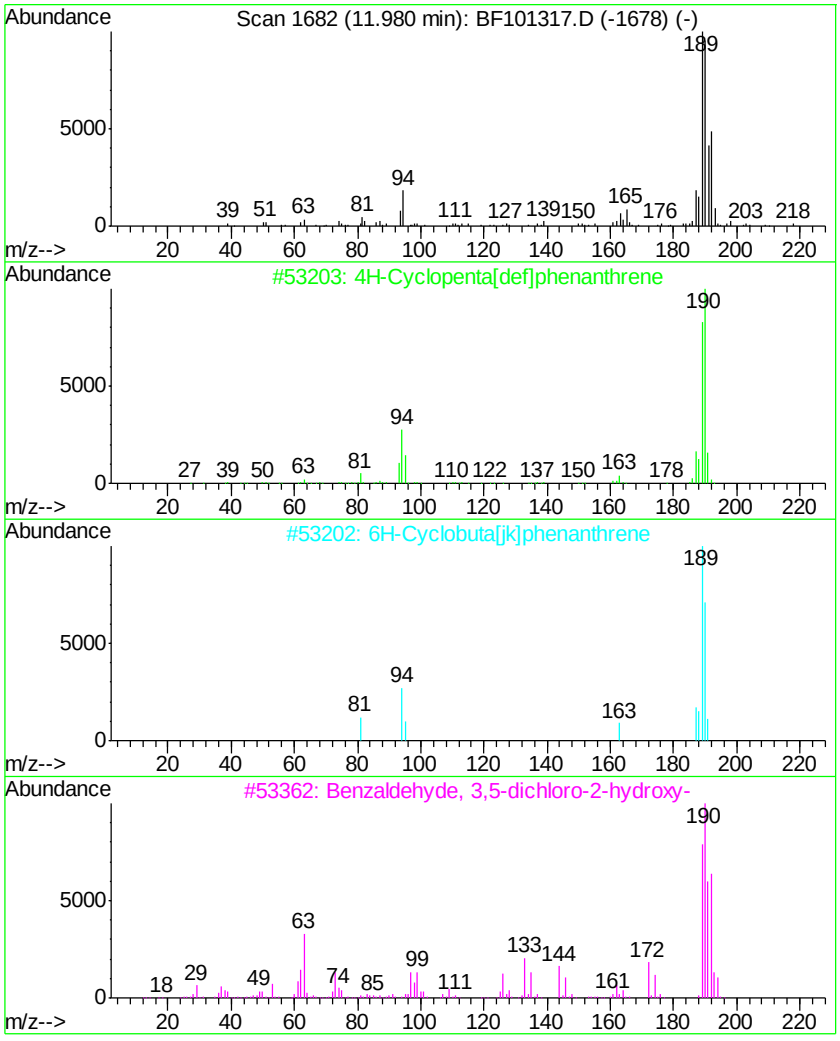
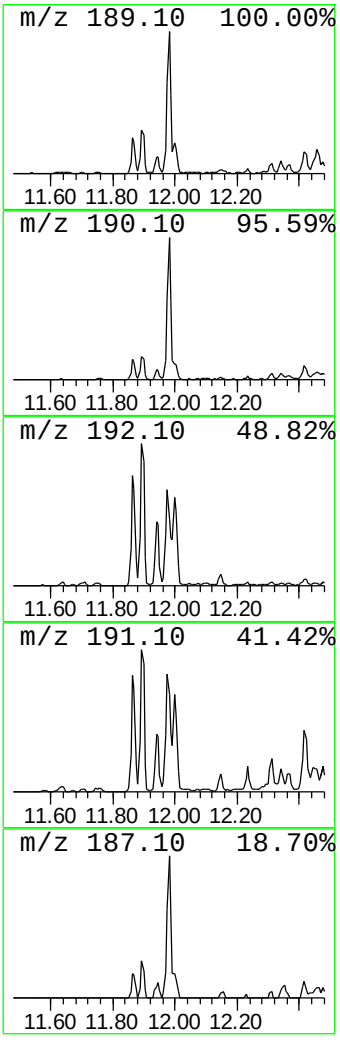
Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	19.94 ng	268065	Phenanthrene-d10	11.36

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	53
3	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	42
4	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	42
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
Data File : BF101317.D
Acq On : 12 Dec 2017 6:30
Operator : SJ/JU
Sample : I6764-10 2X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MAP-3-E(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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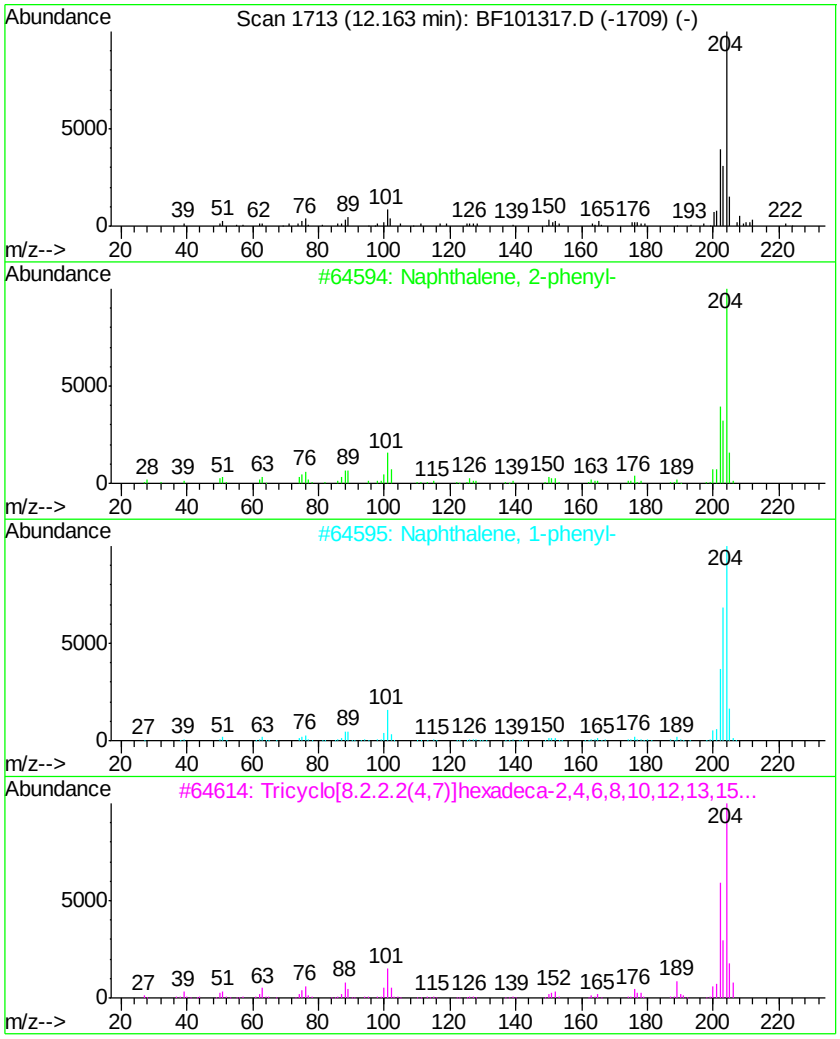
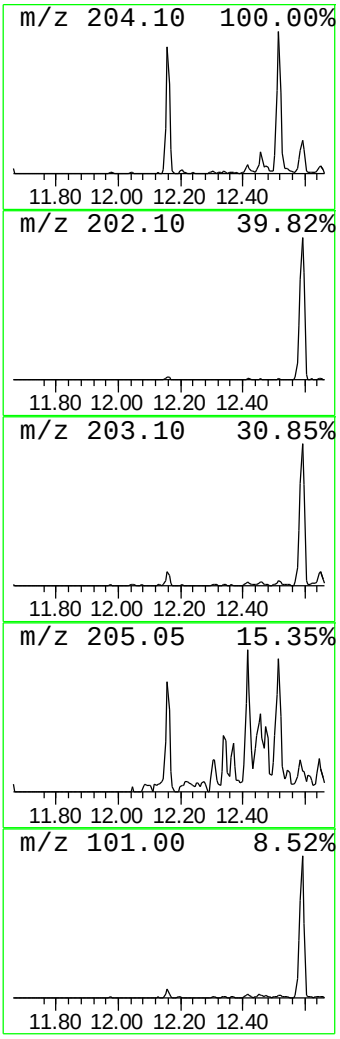
Peak Number 8 Naphthalene, 1-phenyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	8.67 ng	116547	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	83
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	72
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	52
5	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	52





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Data File : BF101317.D
Acq On : 12 Dec 2017 6:30
Operator : SJ/JU
Sample : I6764-10 2X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MAP-3-E(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

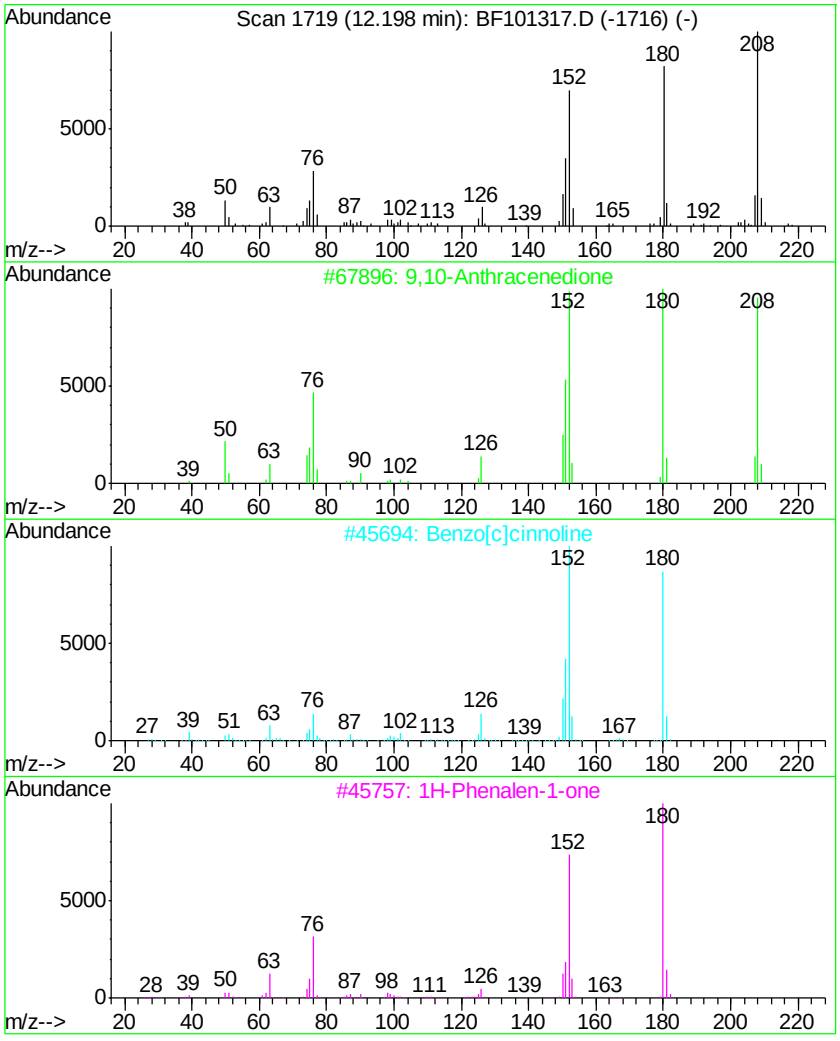
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

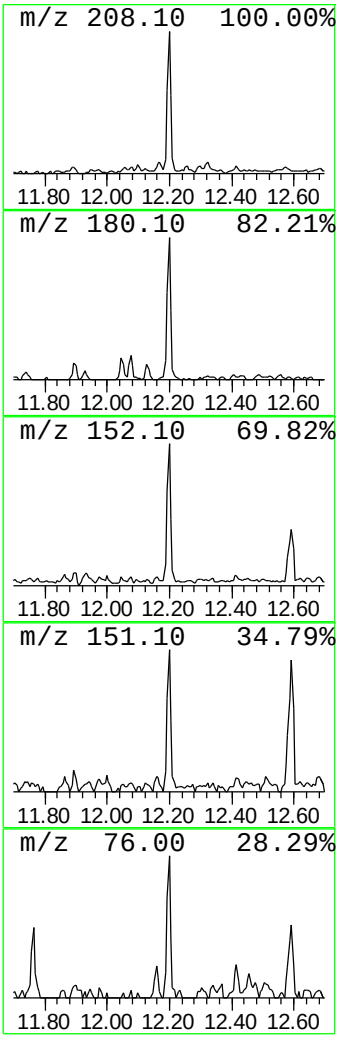
****

Peak Number 9 9,10-Anthracenedione Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	9.42 ng	126600	Phenanthrene-d10	11.36

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	95
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	91
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	83
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	70





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Sample : I6764-10 2X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MAP-3-E(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

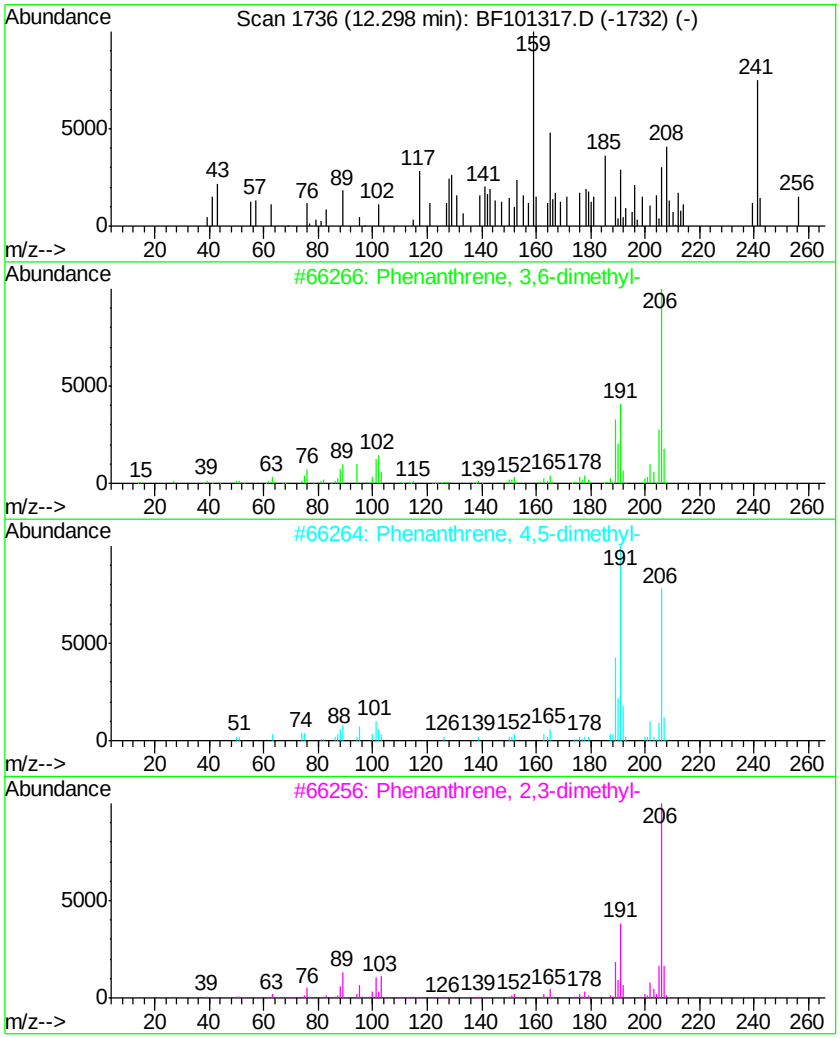
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

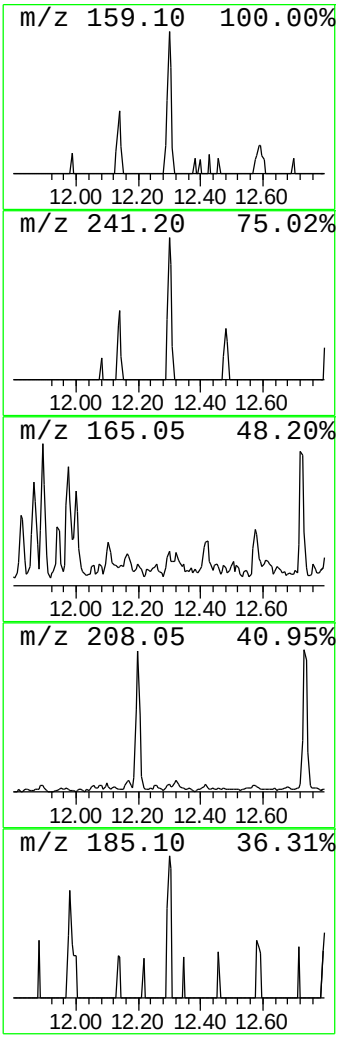
****

Peak Number 10 Phenanthrene, 3,6-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	5.35 ng	71962	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	64
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	64
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	64
4	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	60
5	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	60





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Operator : SJ/JU
Sample : I6764-10 2X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MAP-3-E(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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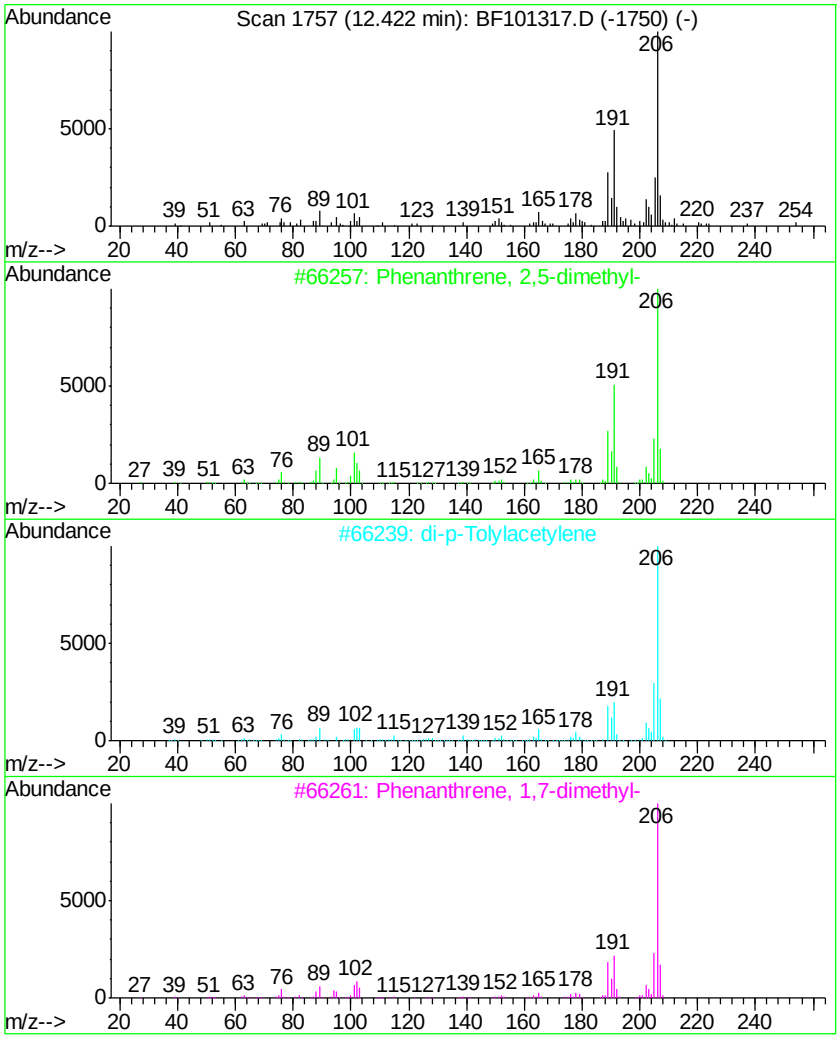
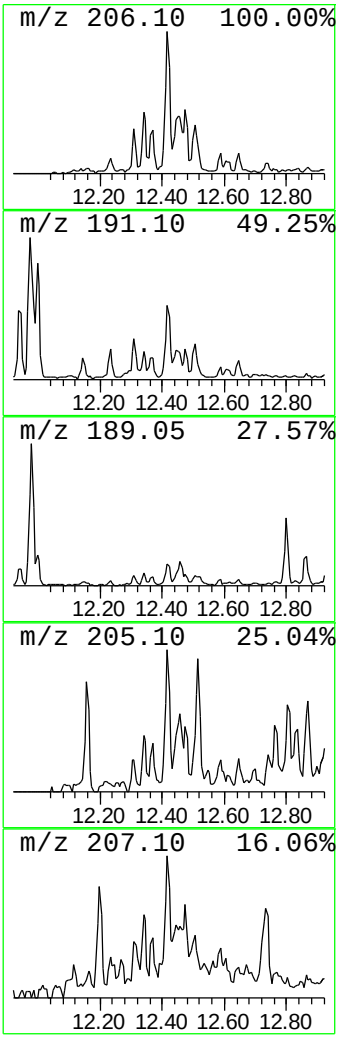
Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	11.52 ng	154844	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	92
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90





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Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MAP-3-E(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
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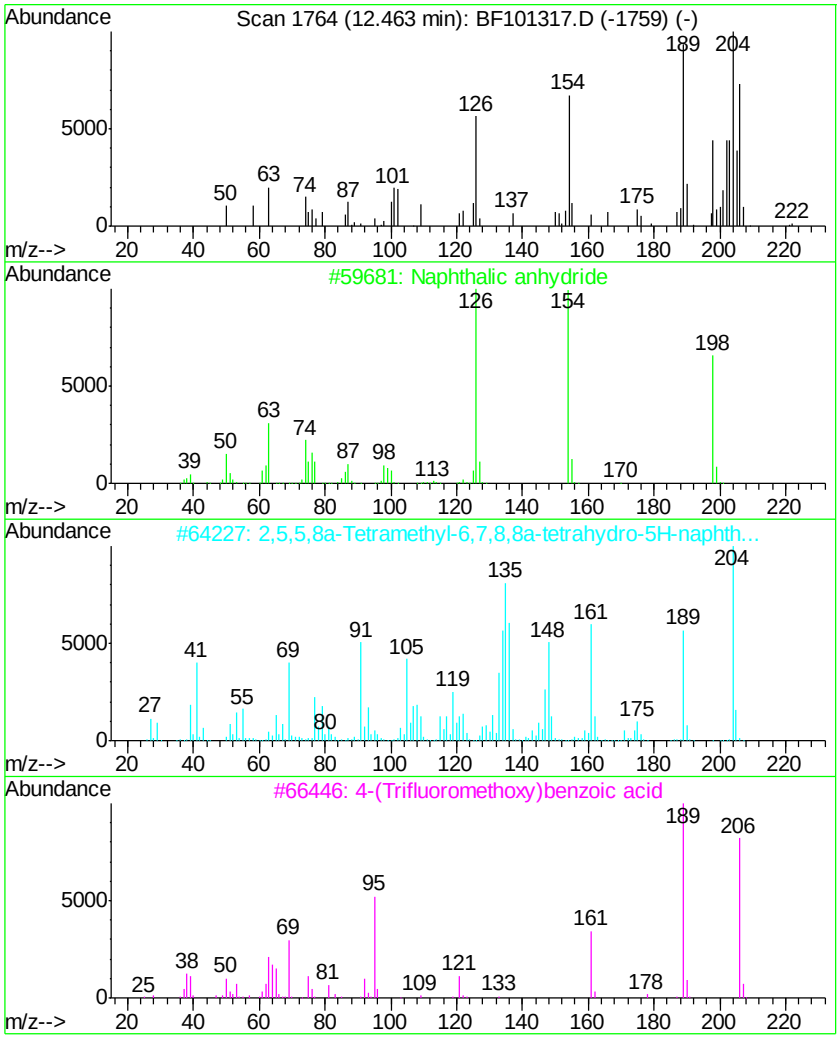
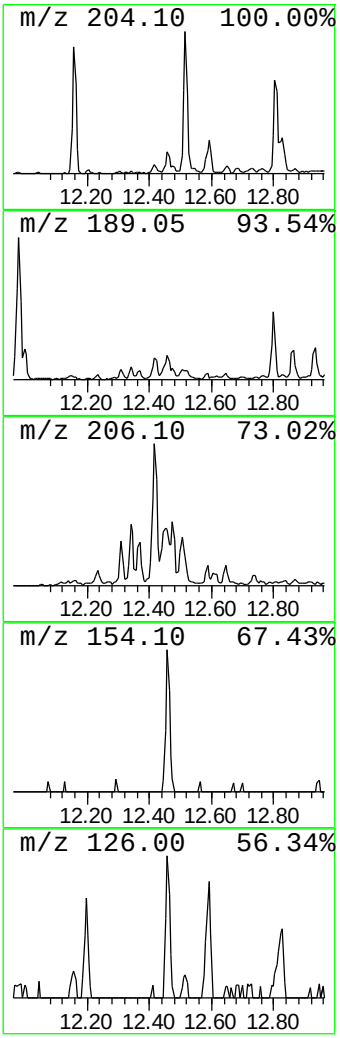
Peak Number 12 unknown12.46 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	7.97 ng	107150	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalic anhydride	198	C12H6O3	000081-84-5	46
2	2,5,5,8a-Tetramethyl-6,7,8,8a-te...	204	C14H20O	124957-09-1	27
3	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	18
4	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	15
5	Dibenzo[b,f][1,4]diazocine	206	C14H10N2	000262-92-0	11





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Acq On : 12 Dec 2017 6:30
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Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MAP-3-E(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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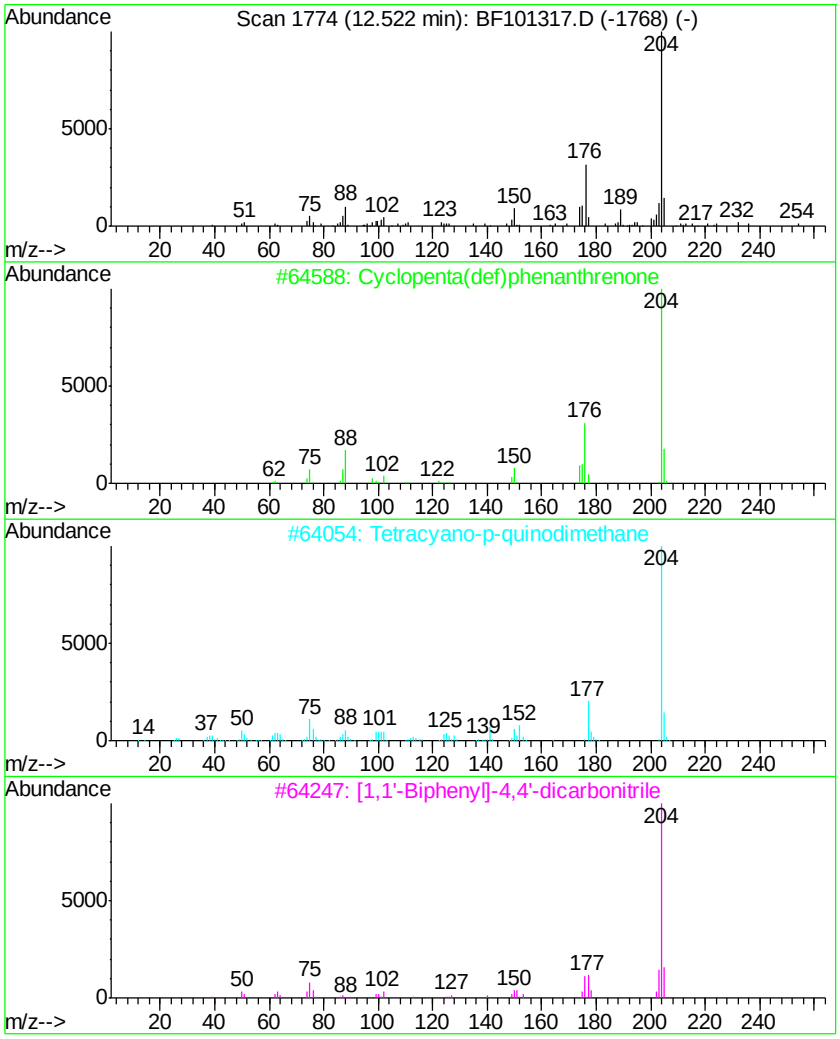
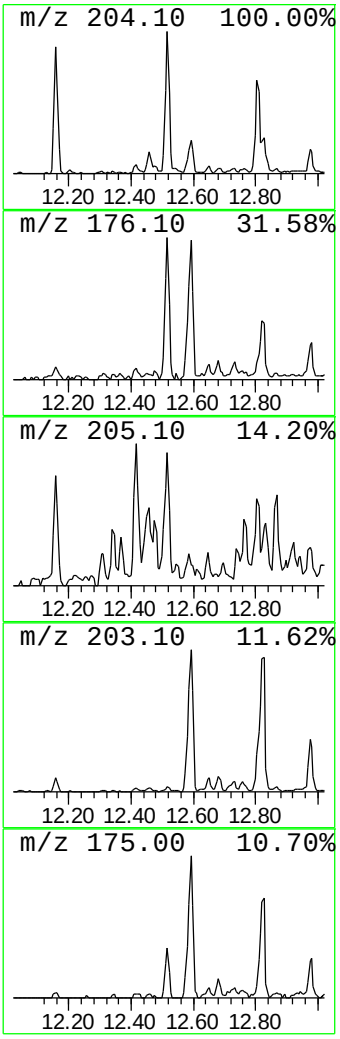
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	11.89 ng	159874	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	94
2	Tetracyano-p-quinodimethane	204	C12H4N4	001518-16-7	53
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	52
4	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	50
5	1-[3-(3,3-Dimethyl-but-1-ynyl)-2...	219	C15H25N	1000275-17-2	47





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Acq On : 12 Dec 2017 6:30
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Sample : I6764-10 2X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MAP-3-E(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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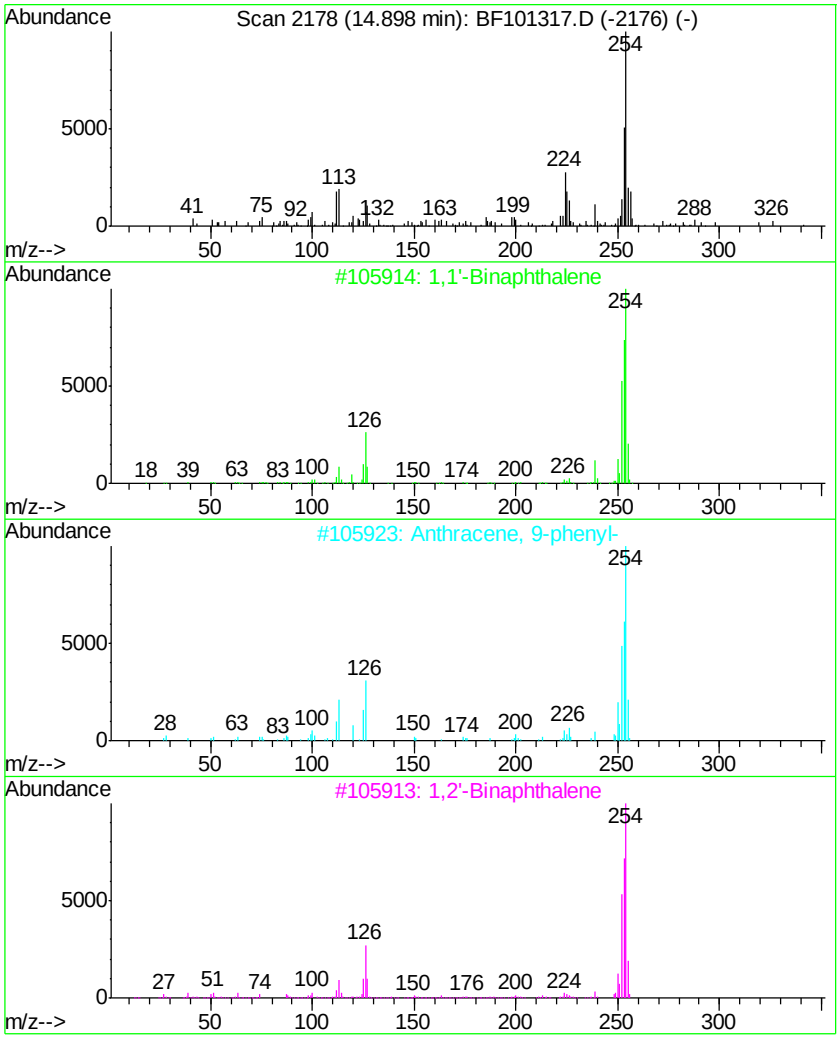
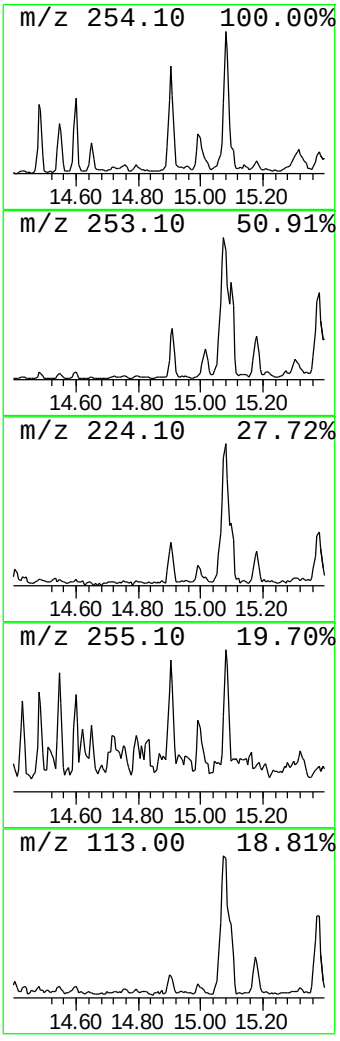
Peak Number 15 1,1'-Binaphthalene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.90	16.58 ng	136756	Perylene-d12	15.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Binaphthalene	254	C20H14	000604-53-5	81
2	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	72
3	1,2'-Binaphthalene	254	C20H14	004325-74-0	64
4	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	59
5	Imidazo[1,2-b]-1,2,4-triazine, 6...	254	C14H14N4O	1000277-24-4	59





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Operator : SJ/JU
Sample : I6764-10 2X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MAP-3-E(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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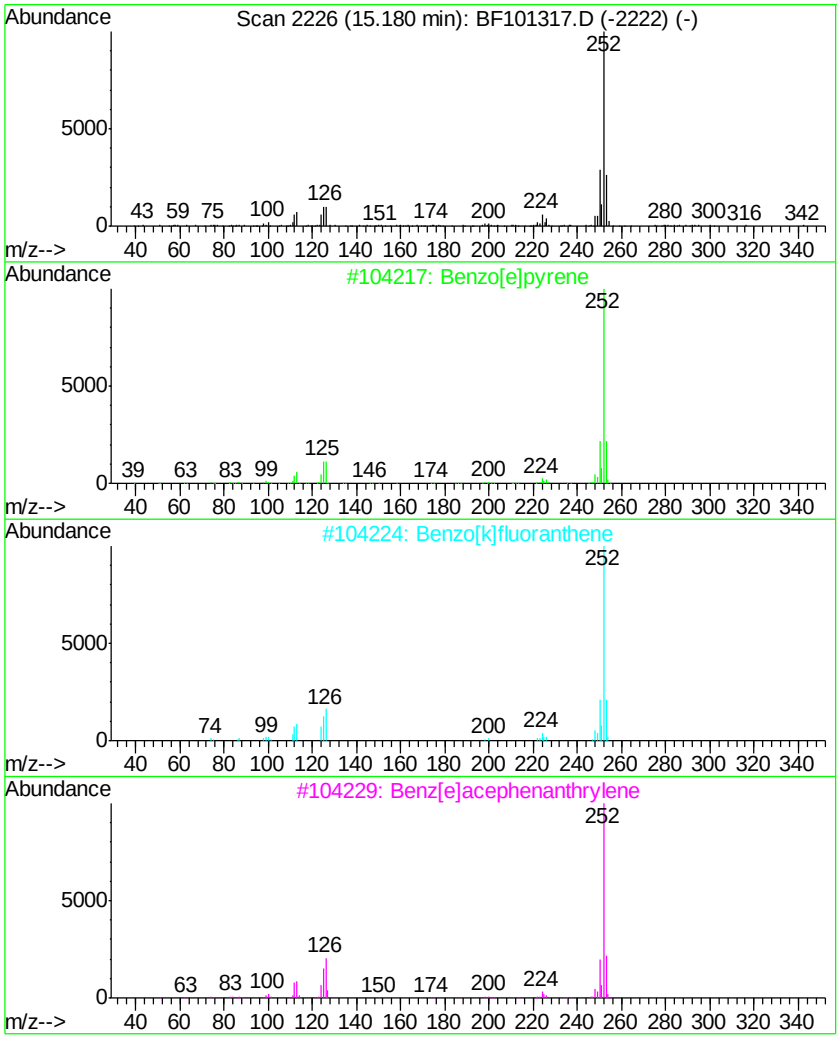
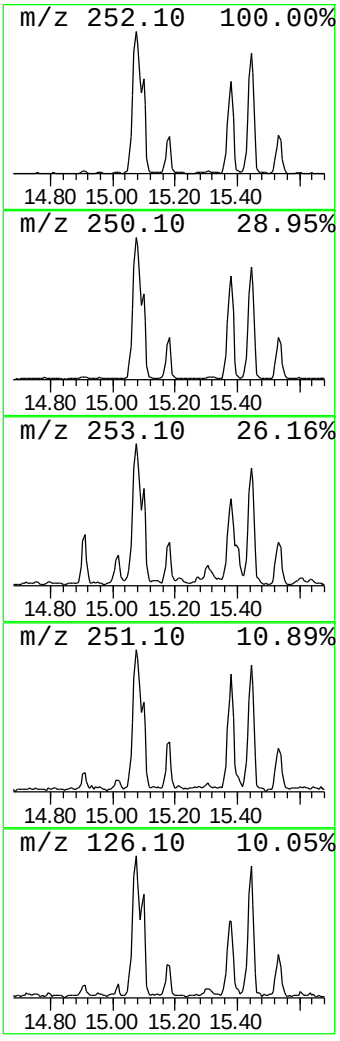
Peak Number 16 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.18	24.14 ng	199152	Perylene-d12	15.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





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Data File : BF101317.D
Acq On : 12 Dec 2017 6:30
Operator : SJ/JU
Sample : I6764-10 2X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MAP-3-E(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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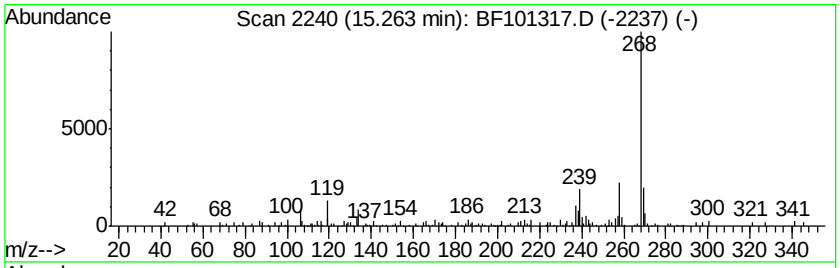
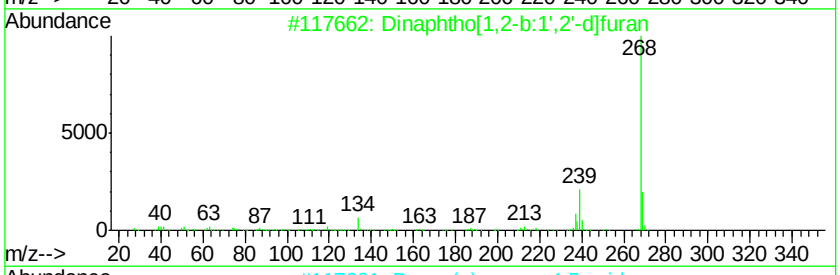
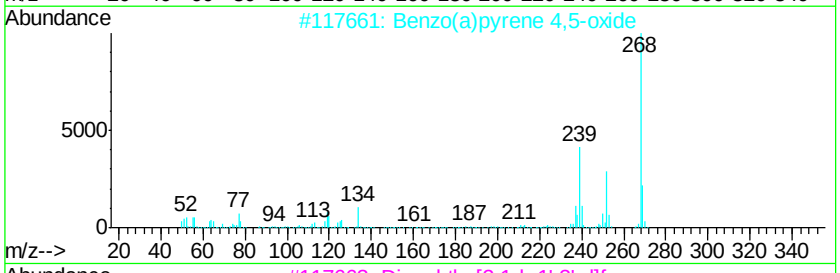
Peak Number 17 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 10

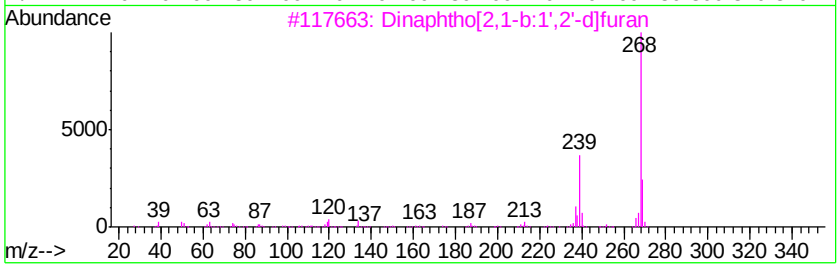
R.T.	EstConc	Area	Relative to ISTD	R.T.
15.26	12.25 ng	101084	Perylene-d12	15.50

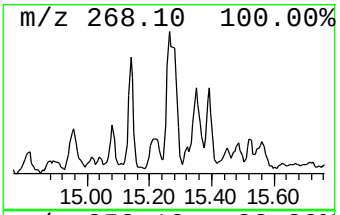
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	76
2	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	59
3	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	58
4	Benzo(a)pyren-7-ol	268	C20H12O	037994-82-4	58
5	4H-1-Benzopyran-4-one, 5-hydroxy...	268	C16H12O4	000520-28-5	53

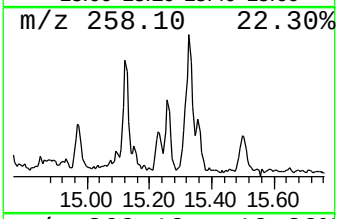


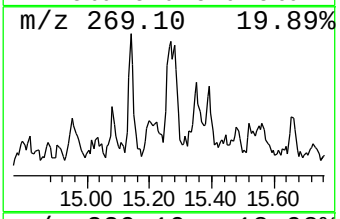


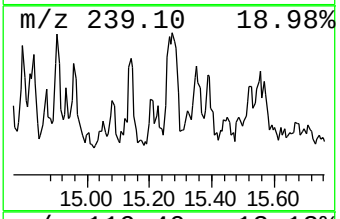


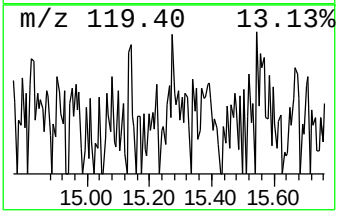












Tentatively Identified Compound (LSC) summary

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Operator : SJ/JU
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Misc :
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Instrument : BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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
unknown6.60	6.60	37.5	ng	431818	1	6.83	230614	20.0
Phenanthrene, 2-m...	11.86	11.2	ng	150379	4	11.36	268906	20.0
Anthracene, 1-met...	11.94	5.3	ng	71796	4	11.36	268906	20.0
4H-Cyclopenta[def...	11.98	19.9	ng	268065	4	11.36	268906	20.0
Naphthalene, 1-ph...	12.16	8.7	ng	116547	4	11.36	268906	20.0
9,10-Anthracenedione	12.20	9.4	ng	126600	4	11.36	268906	20.0
Phenanthrene, 3,6...	12.30	5.3	ng	71962	4	11.36	268906	20.0
Phenanthrene, 2,5...	12.42	11.5	ng	154844	4	11.36	268906	20.0
unknown12.46	12.46	8.0	ng	107150	4	11.36	268906	20.0
Cyclopenta(def)ph...	12.52	11.9	ng	159874	4	11.36	268906	20.0
1,1'-Binaphthalene	14.90	16.6	ng	136756	6	15.50	165013	20.0
Benzo[e]pyrene	15.18	24.1	ng	199152	6	15.50	165013	20.0
Dinaphtho[1,2-b:1...	15.26	12.3	ng	101084	6	15.50	165013	20.0