LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\
Data File : BF099406.D
Acq On : 12 Oct 2017 20:32
Operator : SJ/JU
Sample : I5729-06 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3W-(1-2)

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-BF092317.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	5.063	503	506	518	rVB	72902	82211	3.04%	0.278%
2	5.463	571	574	587	rVB	492655	498990	18.44%	1.685%
3	6.481	744	747	755	rBV	530642	504648	18.65%	1.705%
4	6.622	767	771	777	rVB	600253	553029	20.44%	1.868%
5	6.675	777	780	784	rBV2	40782	34967	1.29%	0.118%
6	6.851	806	810	814	rBV	814039	670552	24.79%	2.265%
7	7.004	831	836	840	rBV	516126	429257	15.87%	1.450%
8	7.410	902	905	908	rBV	345397	296189	10.95%	1.000%
9	8.134	1024	1028	1030	rBV	1081123	855447	31.62%	2.889%
10	8.151	1030	1031	1034	rVB	157902	121263	4.48%	0.410%
11	8.486	1083	1088	1091	rBV4	18696	39793	1.47%	0.134%
12	8.845	1146	1149	1152	rBV	155706	115686	4.28%	0.391%
13	8.945	1162	1166	1169	rBV	120723	97290	3.60%	0.329%
14	9.204	1205	1210	1213	rBV	750220	575198	21.26%	1.943%
15	9.475	1251	1256	1260	rBV	41555	52817	1.95%	0.178%
16	9.545	1264	1268	1270	rBV	75748	74026	2.74%	0.250%
17	9.569	1270	1272	1274	rVV	48047	35896	1.33%	0.121%
18	9.598	1274	1277	1284	rVB	96126	84079	3.11%	0.284%
19	9.663	1284	1288	1290	rBV2	46891	48149	1.78%	0.163%
20	9.745	1299	1302	1305	rVB	42796	36163	1.34%	0.122%
21	9.804	1308	1312	1319	rVB2	36298	37084	1.37%	0.125%
22	9.886	1319	1326	1329	rBV2	966331	853509	31.55%	2.883%
23	9.922	1329	1332	1335	rVB	247013	215529	7.97%	0.728%
24	10.039	1347	1352	1356	rBV2	24244	36152	1.34%	0.122%
25	10.092	1357	1361	1364	rVV	207898	190833	7.05%	0.645%
26	10.128	1364	1367	1371	rVB2	44444	42245	1.56%	0.143%
27	10.198	1376	1379	1382	rBV	36936	38490	1.42%	0.130%
28	10.228	1382	1384	1390	rVB	30414	33188	1.23%	0.112%
29	10.292	1390	1395	1396	rBV3	42526	54485	2.01%	0.184%
30	10.304	1396	1397	1400	rVB2	57511	43836	1.62%	0.148%
31	10.433	1415	1419	1424	rBV	231405	223341	8.26%	0.754%
32	10.592	1443	1446	1450	rVB2	92292	90781	3.36%	0.307%
33	10.675	1457	1460	1464	rBV	327096	309172	11.43%	1.044%
34	10.792	1475	1480	1487	rVB4	95686	159767	5.91%	0.540%

LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\
Data File : BF099406.D
Acq On : 12 Oct 2017 20:32
Operator : SJ/JU
Sample : I5729-06 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3W-(1-2)

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-BF092317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.980	1505	1512	1515	rBV3	60199	99147	3.66%	0.335%
36	11.110	1528	1534	1535	rBV3	57108	70535	2.61%	0.238%
37	11.133	1535	1538	1542	rVV3	52188	75883	2.80%	0.256%
38	11.180	1543	1546	1550	rVV	170679	148637	5.49%	0.502%
39	11.227	1550	1554	1557	rVV3	119667	153696	5.68%	0.519%
40	11.269	1557	1561	1566	rVB	127727	152721	5.65%	0.516%
41	11.375	1575	1579	1581	rBV	752626	685388	25.33%	2.315%
42	11.398	1581	1583	1587	rVV	1641973	1532486	56.65%	5.176%
43	11.451	1587	1592	1595	rVV	474563	417341	15.43%	1.410%
44	11.486	1595	1598	1603	rVB2	51712	63114	2.33%	0.213%
45	11.604	1614	1618	1623	rBV2	210083	241925	8.94%	0.817%
46	11.651	1623	1626	1627	rVV2	56903	52595	1.94%	0.178%
47	11.669	1627	1629	1633	rVV3	56851	56679	2.10%	0.191%
48	11.704	1633	1635	1640	rVB3	65437	68934	2.55%	0.233%
49	11.786	1646	1649	1652	rVB	33193	35932	1.33%	0.121%
50	11.875	1661	1664	1666	rBV	217045	188592	6.97%	0.637%
51	11.904	1666	1669	1672	rVB	338503	277490	10.26%	0.937%
52	11.951	1672	1677	1680	rBV	111509	103581	3.83%	0.350%
53	11.986	1680	1683	1686	rBV2	389261	435424	16.09%	1.471%
54	12.010	1686	1687	1690	rVB	173082	95156	3.52%	0.321%
55	12.057	1692	1695	1697	rBV2	63099	56835	2.10%	0.192%
56	12.110	1701	1704	1706	rBV	45298	45804	1.69%	0.155%
57	12.169	1711	1714	1717	rVV	237222	206989	7.65%	0.699%
58	12.204	1717	1720	1724	rVB	199530	189139	6.99%	0.639%
59	12.316	1734	1739	1742	rBV2	80667	112532	4.16%	0.380%
60	12.351	1742	1745	1747	rVV	91660	84607	3.13%	0.286%
61	12.374	1747	1749	1751	rVB	64513	50992	1.88%	0.172%
62	12.422	1753	1757	1760	rBV	161357	188210	6.96%	0.636%
63	12.451	1760	1762	1766	rVV4	78977	117713	4.35%	0.398%
64	12.516	1770	1773	1777	rVV2	175656	177965	6.58%	0.601%
65	12.551	1777	1779	1781	rVV2	41891	31403	1.16%	0.106%
66	12.598	1782	1787	1790	rBV	2667812	2579300	95.34%	8.712%
67	12.633	1790	1793	1794	rVV	40403	35754	1.32%	0.121%
68	12.651	1794	1796	1799	rVB	62503	51461	1.90%	0.174%
69	12.739	1806	1811	1814	rBV3	101556	134500	4.97%	0.454%
70	12.827	1818	1826	1830	rBV2	2128366	2705351	100.00%	9.138%
71	12.869	1830	1833	1837	rVB2	145586	155154	5.74%	0.524%

LSC Area Percent Report

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Data File : BF099406.D
Acq On : 12 Oct 2017 20:32
Operator : SJ/JU
Sample : I5729-06 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3W-(1-2)

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-BF092317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.951	1841	1847	1850	rBV2	429105	546108	20.19%	1.845%
73	12.980	1850	1852	1856	rVB	157778	138606	5.12%	0.468%
74	13.027	1856	1860	1861	rBV2	142020	163503	6.04%	0.552%
75	13.121	1872	1876	1878	rBV2	137386	188425	6.96%	0.636%
76	13.145	1878	1880	1883	rVB	289322	239827	8.86%	0.810%
77	13.174	1883	1885	1887	rBV3	49234	42400	1.57%	0.143%
78	13.210	1888	1891	1894	rBV	205774	172066	6.36%	0.581%
79	13.251	1894	1898	1900	rBV2	191649	212149	7.84%	0.717%
80	13.304	1905	1907	1909	rBV2	42680	31163	1.15%	0.105%
81	13.345	1909	1914	1916	rVB2	90475	114073	4.22%	0.385%
82	13.374	1916	1919	1921	rBV	127585	120070	4.44%	0.406%
83	13.569	1950	1952	1955	rVB	76384	60964	2.25%	0.206%
84	13.657	1964	1967	1971	rVB	229024	201187	7.44%	0.680%
85	13.763	1982	1985	1988	rBV	210452	228886	8.46%	0.773%
86	13.792	1988	1990	1992	rVV	208380	164837	6.09%	0.557%
87	13.821	1992	1995	2000	rVV3	178106	315096	11.65%	1.064%
88	13.863	2000	2002	2006	rVB	177070	170763	6.31%	0.577%
89	14.010	2023	2027	2031	rBV2	1194718	1732051	64.02%	5.850%
90	14.045	2031	2033	2036	rVB	1056907	837994	30.98%	2.831%
91	14.121	2044	2046	2049	rBV	194367	164754	6.09%	0.556%
92	14.404	2092	2094	2096	rVB	160931	124482	4.60%	0.420%
93	15.063	2202	2206	2209	rBV	742360	1098209	40.59%	3.709%
94	15.168	2222	2224	2229	rVB	117074	117114	4.33%	0.396%
95	15.368	2254	2258	2264	rVB	440571	569820	21.06%	1.925%
96	15.433	2265	2269	2273	rVV	625517	743839	27.50%	2.513%
97	15.492	2275	2279	2282	rVV	410690	539227	19.93%	1.821%
98	15.521	2282	2284	2293	rVB	211372	282018	10.42%	0.953%
99	16.974	2526	2531	2541	rVB	250578	492763	18.21%	1.664%
100	17.427	2602	2608	2617	rVB	175560	380101	14.05%	1.284%

Sum of corrected areas: 29605522

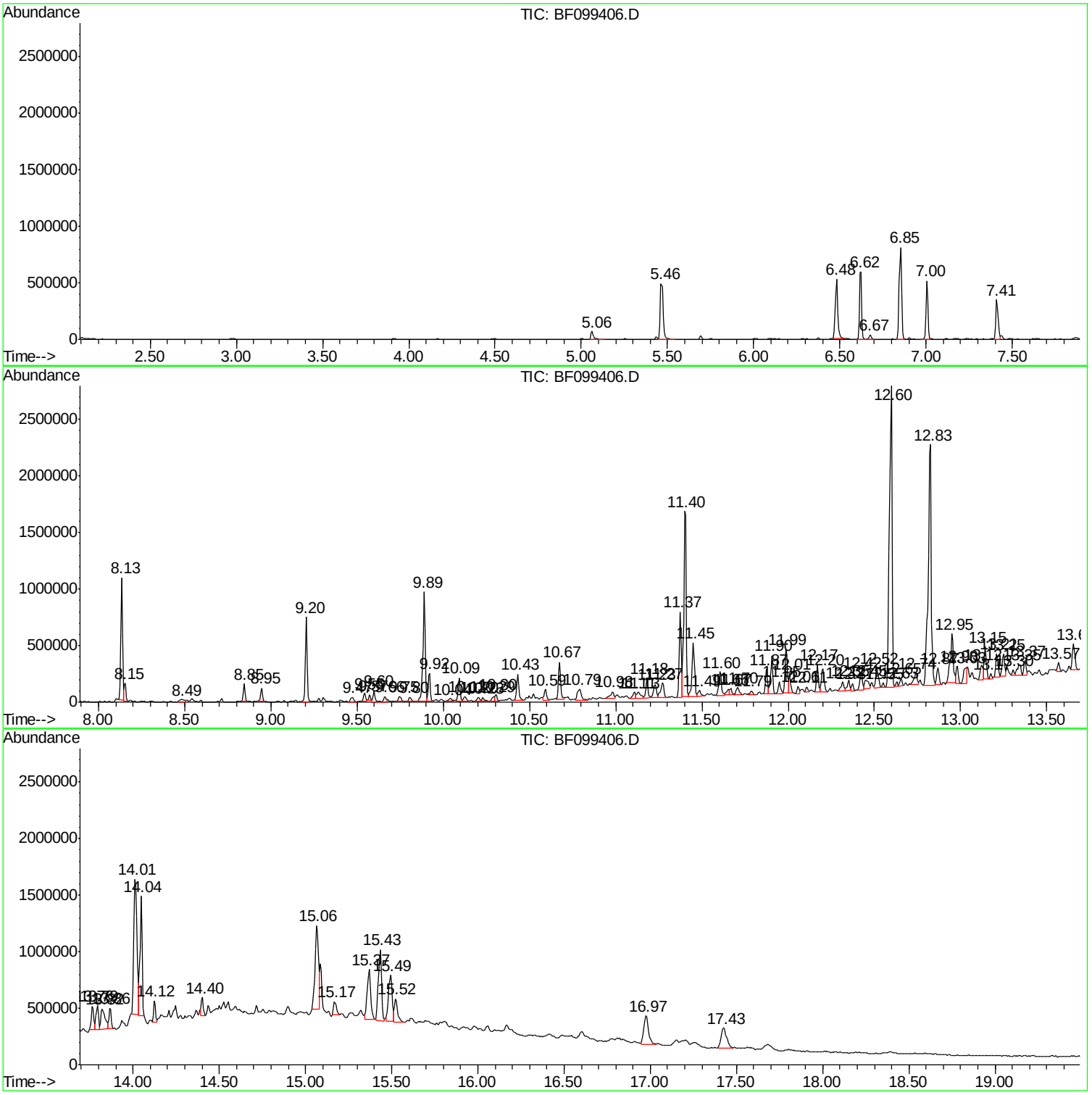
LSC Report - Integrated Chromatogram

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\
Data File : BF099406.D
Acq On : 12 Oct 2017 20:32
Operator : SJ/JU
Sample : I5729-06 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
3W-(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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 : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\
Data File : BF099406.D
Acq On : 12 Oct 2017 20:32
Operator : SJ/JU
Sample : I5729-06 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3W-(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

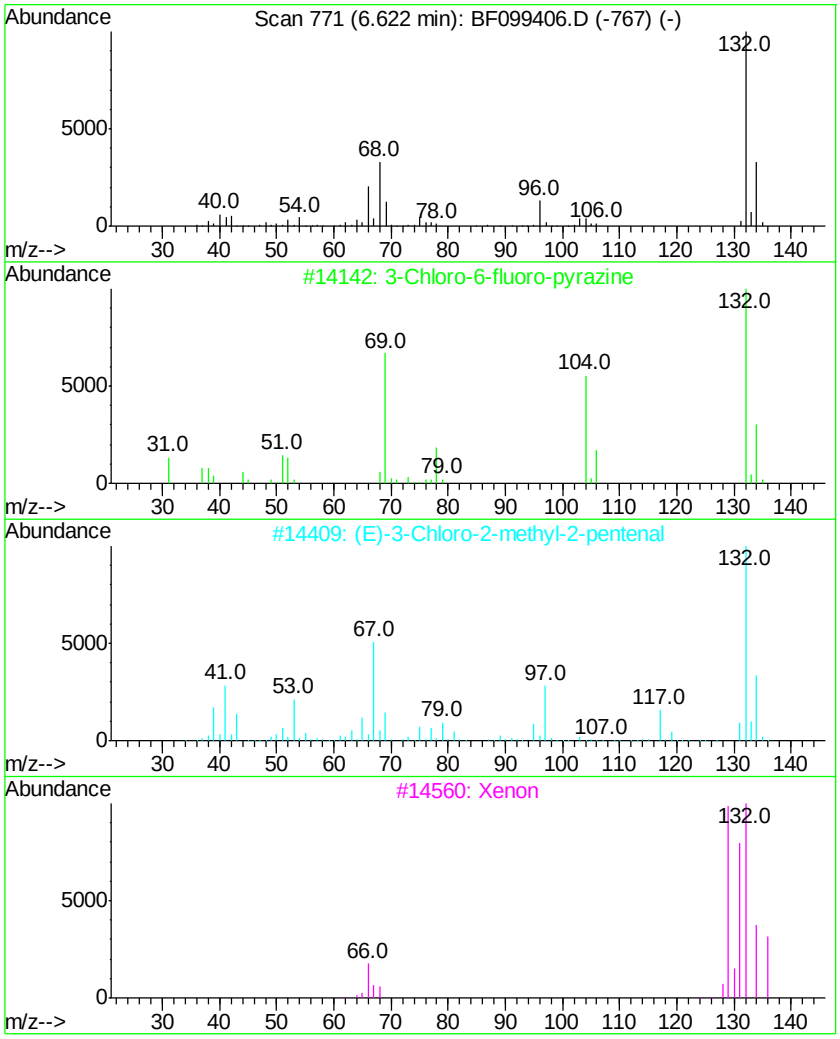
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

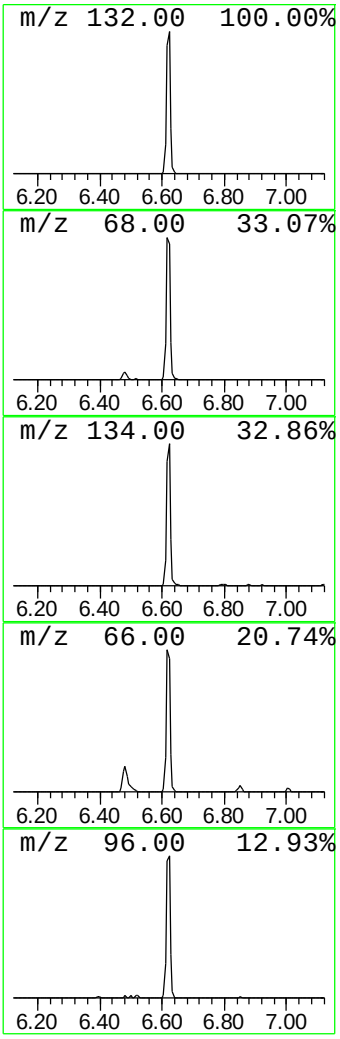
****

Peak Number 1 unknown6.62 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	16.49 ng	553029	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	38
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	Xenon	132	Xe	007440-63-3	9
4	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\
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Operator : SJ/JU
Sample : I5729-06 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3W-(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

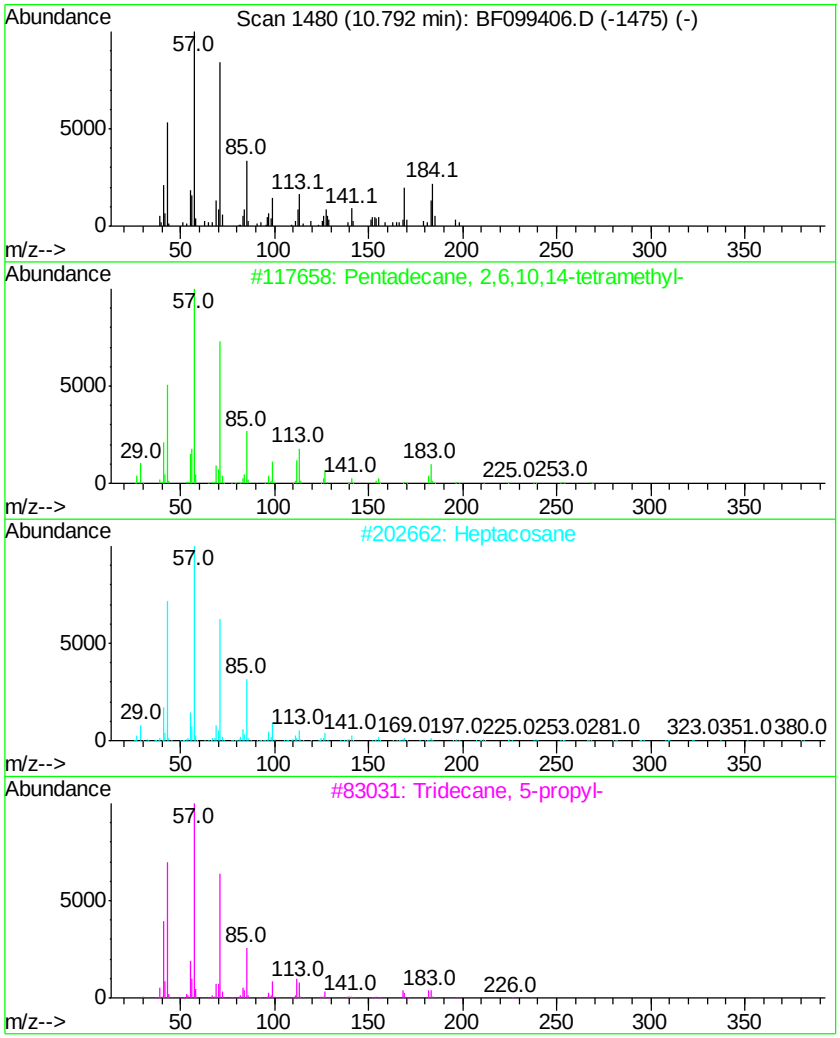
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

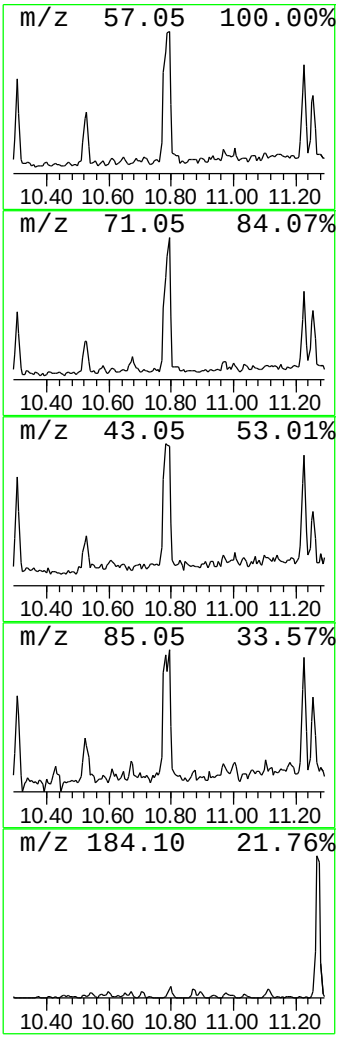
****

Peak Number 3 Pentadecane, 2,6,10,14-tetr... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.79	4.66 ng	159767	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	64
2	Heptacosane	380	C27H56	000593-49-7	53
3	Tridecane, 5-propyl-	226	C16H34	055045-11-9	53
4	Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	50
5	Sulfurous acid, 2-ethylhexyl und...	348	C19H40O3S	1000309-19-4	49





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\
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Misc :
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Instrument : BNA_F
ClientSampleId : 3W-(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

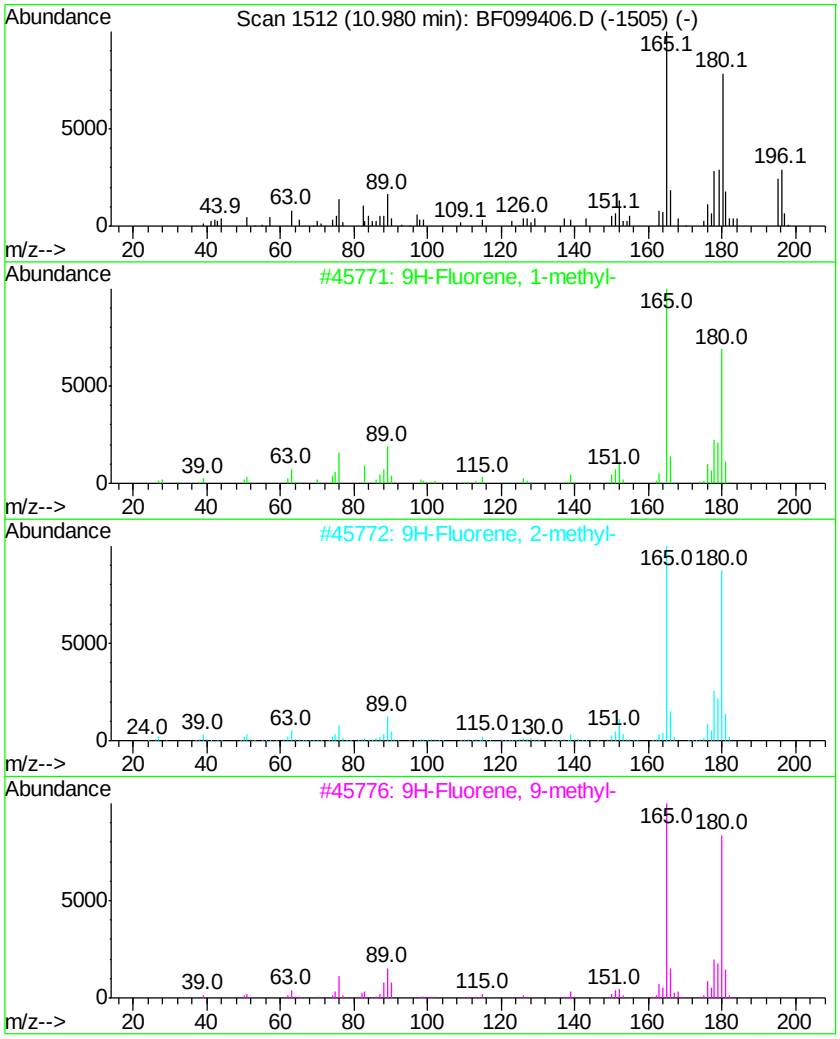
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

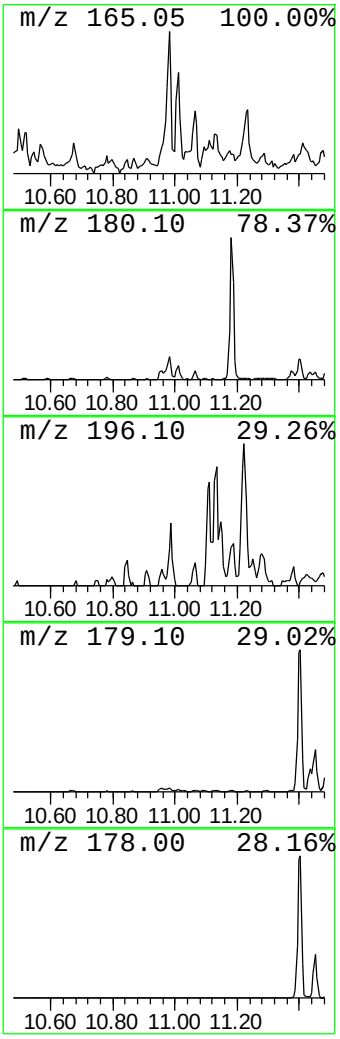
****

Peak Number 4 9H-Fluorene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.98	2.89 ng	99147	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	86
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	86
5	(E)-Stilbene	180	C14H12	000103-30-0	50





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\
Data File : BF099406.D
Acq On : 12 Oct 2017 20:32
Operator : SJ/JU
Sample : I5729-06 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3W-(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

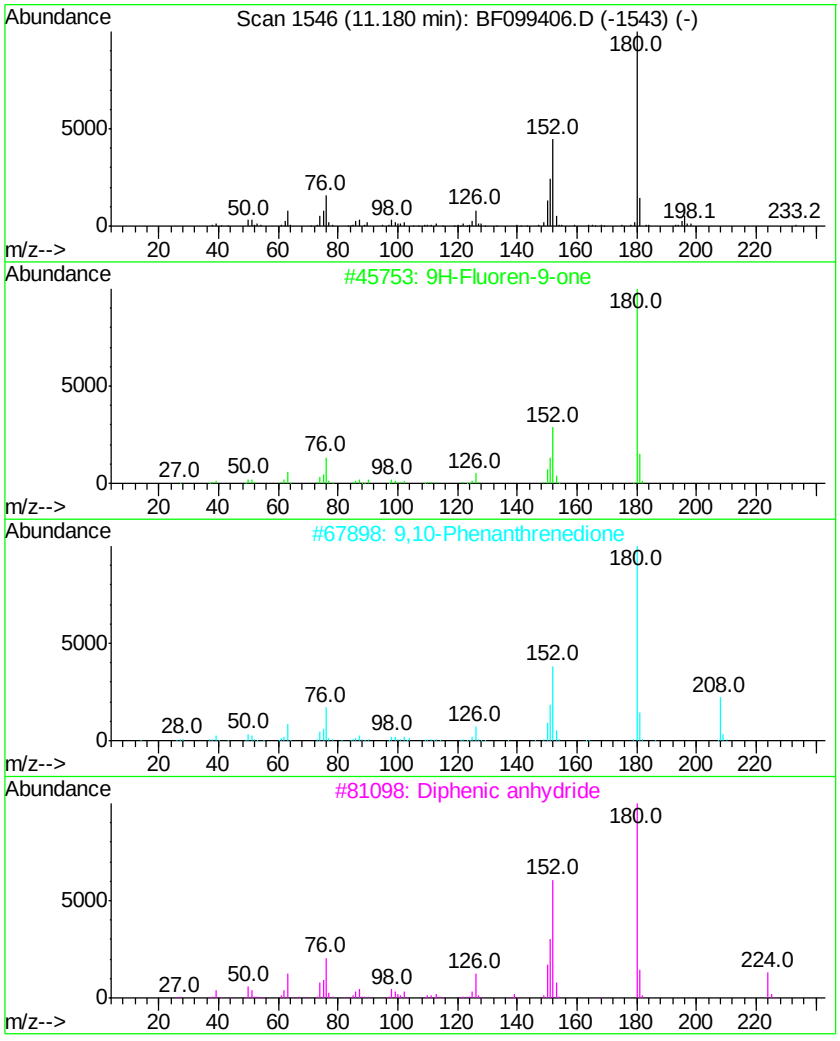
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

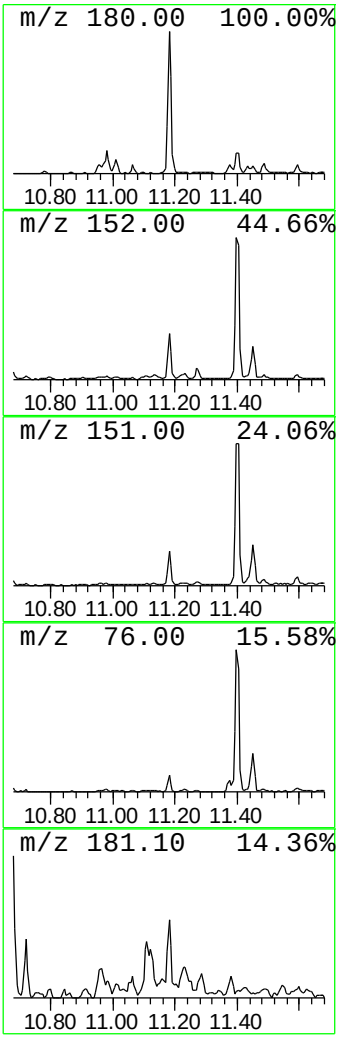
****

Peak Number 5 9H-Fluoren-9-one Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.18	4.34 ng	148637	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	91
3	Diphenic anhydride	224	C14H8O3	006050-13-1	68
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	53





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\
Data File : BF099406.D
Acq On : 12 Oct 2017 20:32
Operator : SJ/JU
Sample : I5729-06 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3W-(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

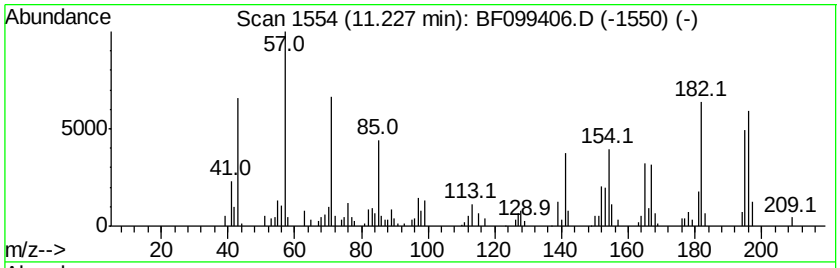
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

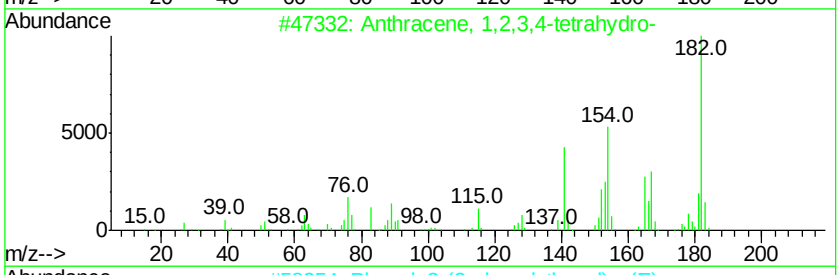
****

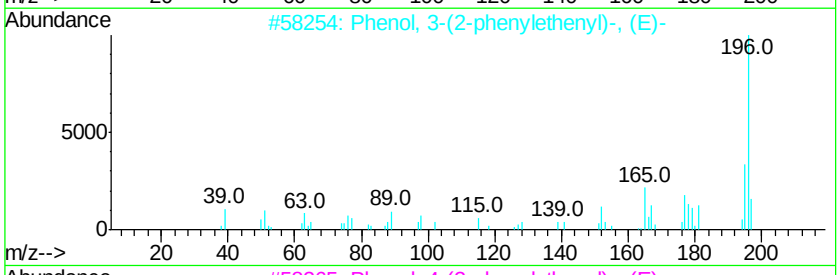
Peak Number 6 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 12

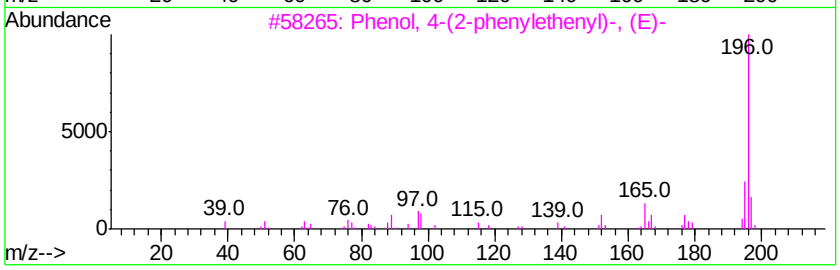
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	4.48 ng	153696	Phenanthrene-d10	11.37

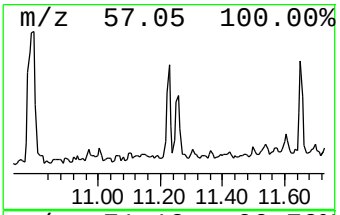
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	50
2	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	38
3	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	35
4	8-Dimethylaminonaphthalene-1-car...	196	C13H12N2	128644-69-9	30
5	.beta.-Carboline, 1,2-dimethyl-	196	C13H12N2	109847-05-4	18

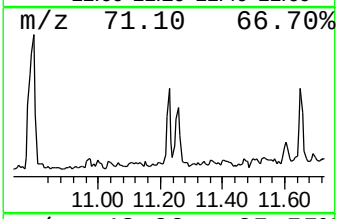


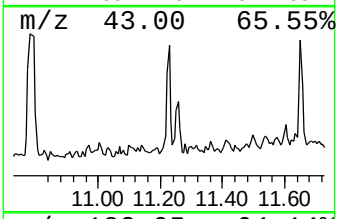


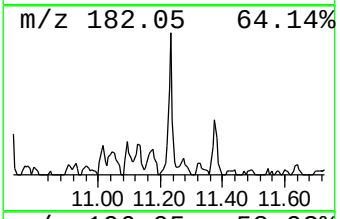


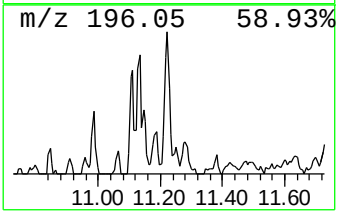












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Sample : I5729-06 5X
Misc :
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Instrument : BNA_F
ClientSampleId : 3W-(1-2)

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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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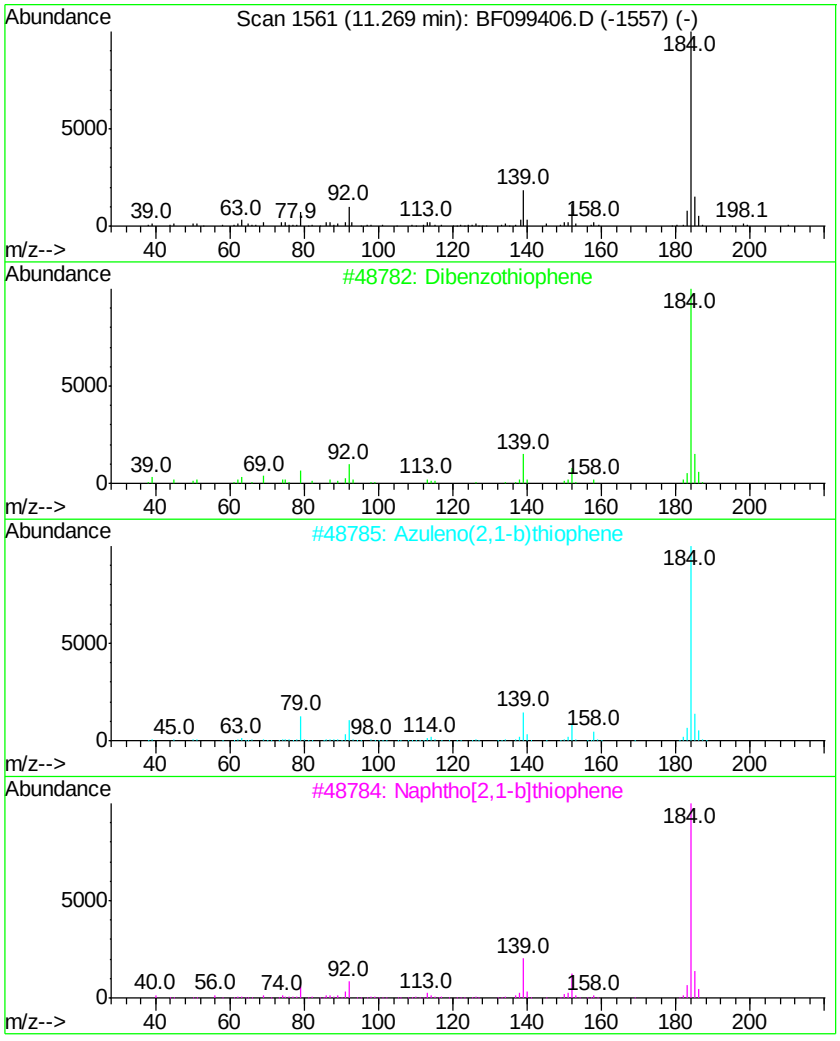
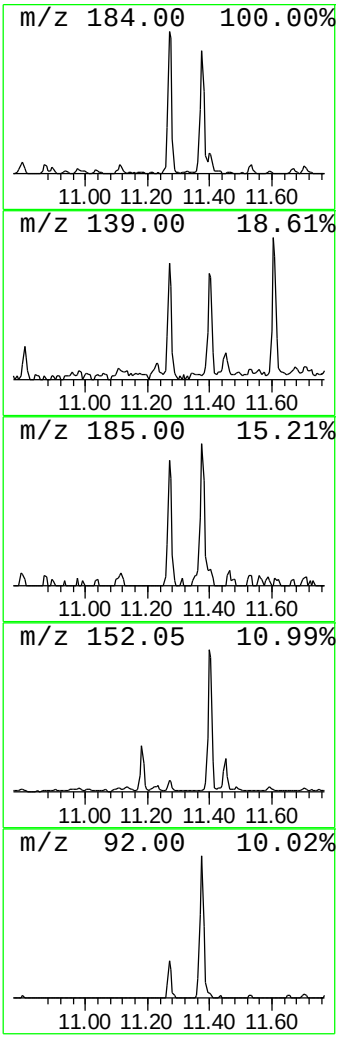
Peak Number 7 Dibenzothiophene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.27	4.46 ng	152721	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	94
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	94
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
5	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	87





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

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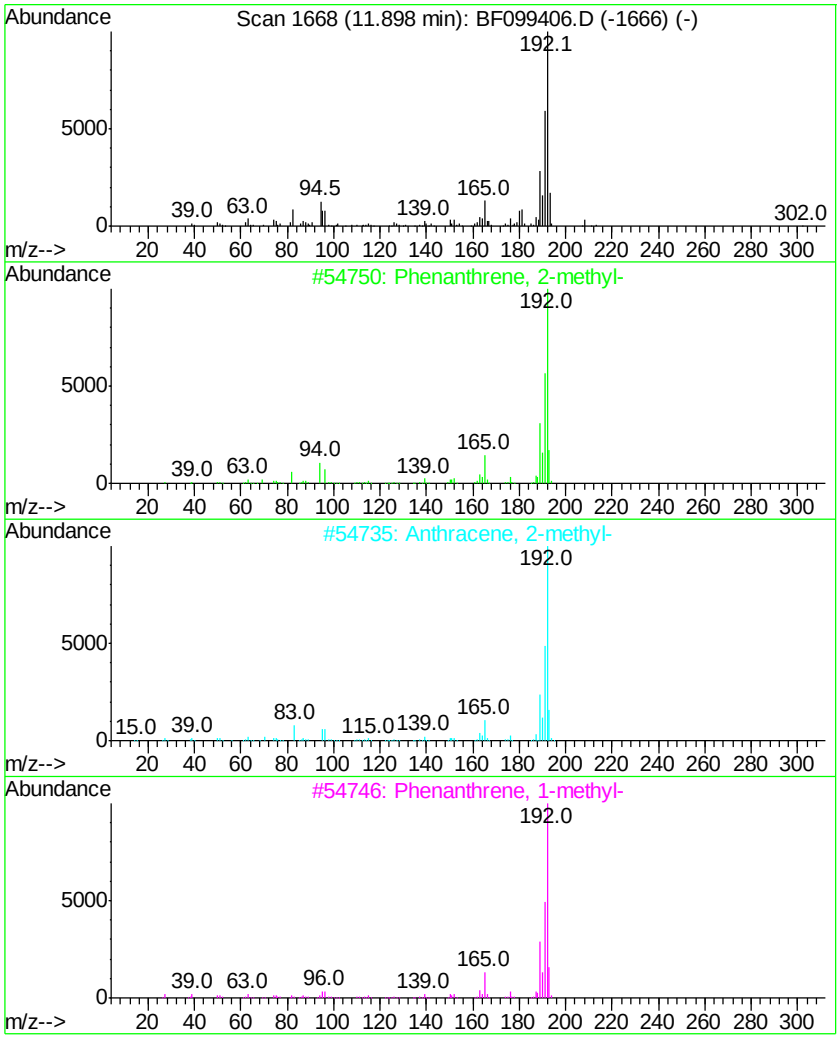
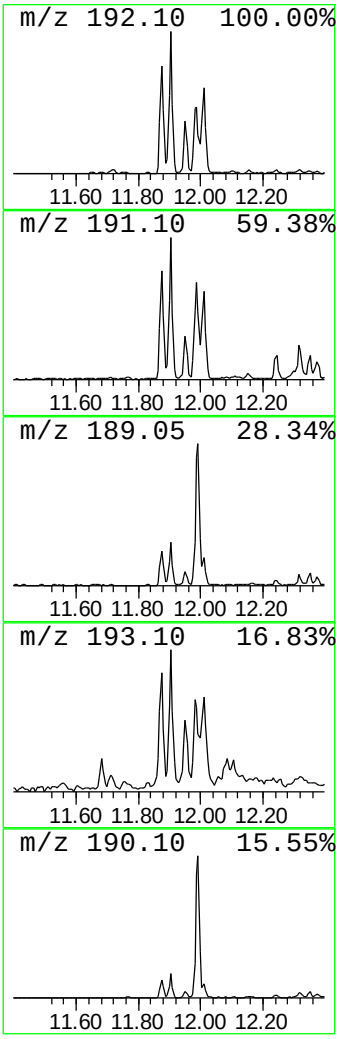
Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	8.10 ng	277490	Phenanthrene-d10	11.37

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	97
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	95





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Instrument : BNA_F
ClientSampleId : 3W-(1-2)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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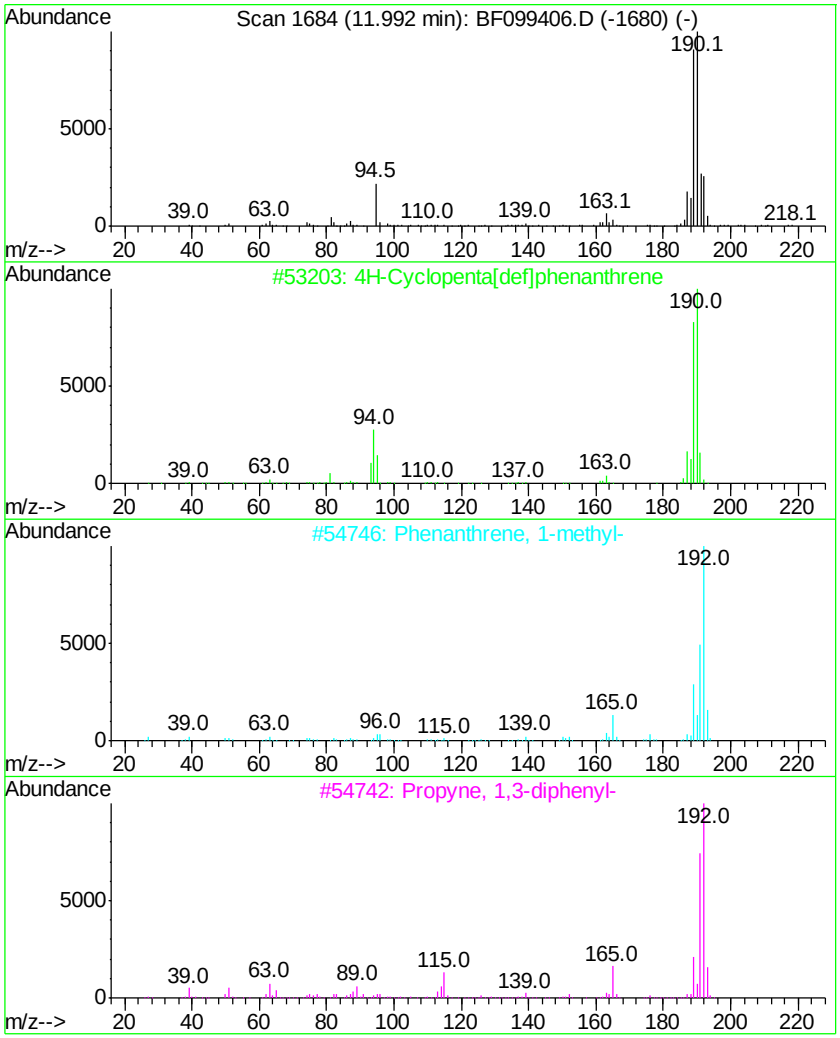
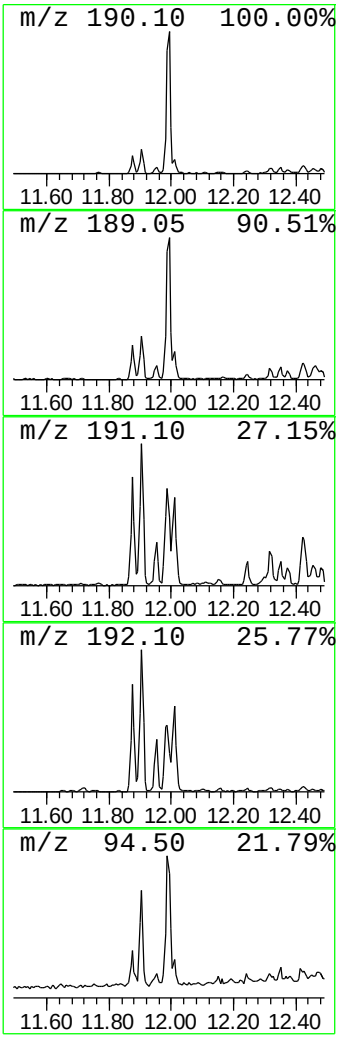
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	12.71 ng	435424	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	25
3	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	18
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	18
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	15





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Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3W-(1-2)

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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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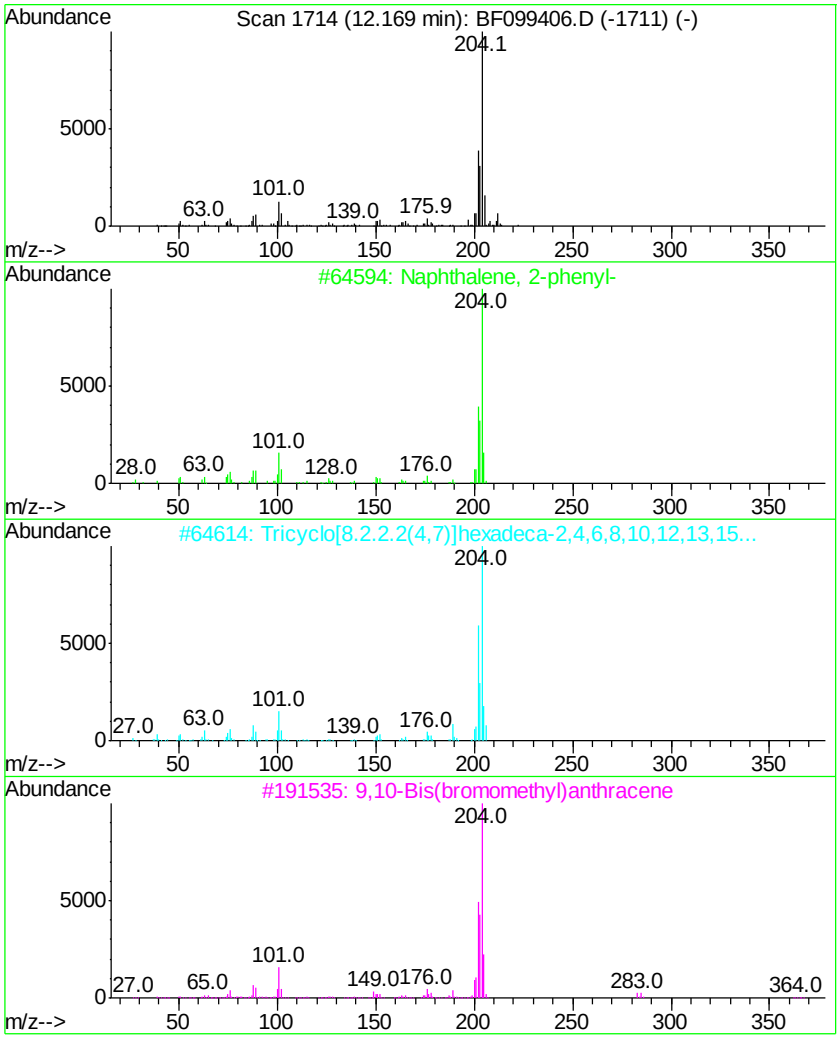
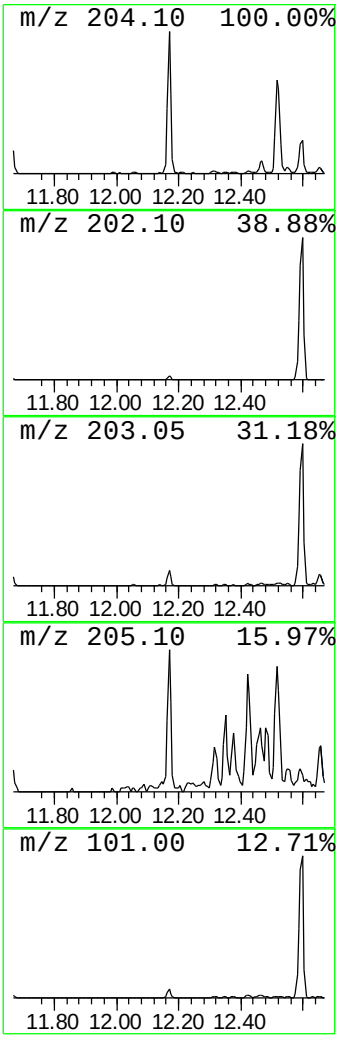
Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	6.04 ng	206989	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	83
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	62
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	50
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	49





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Misc :
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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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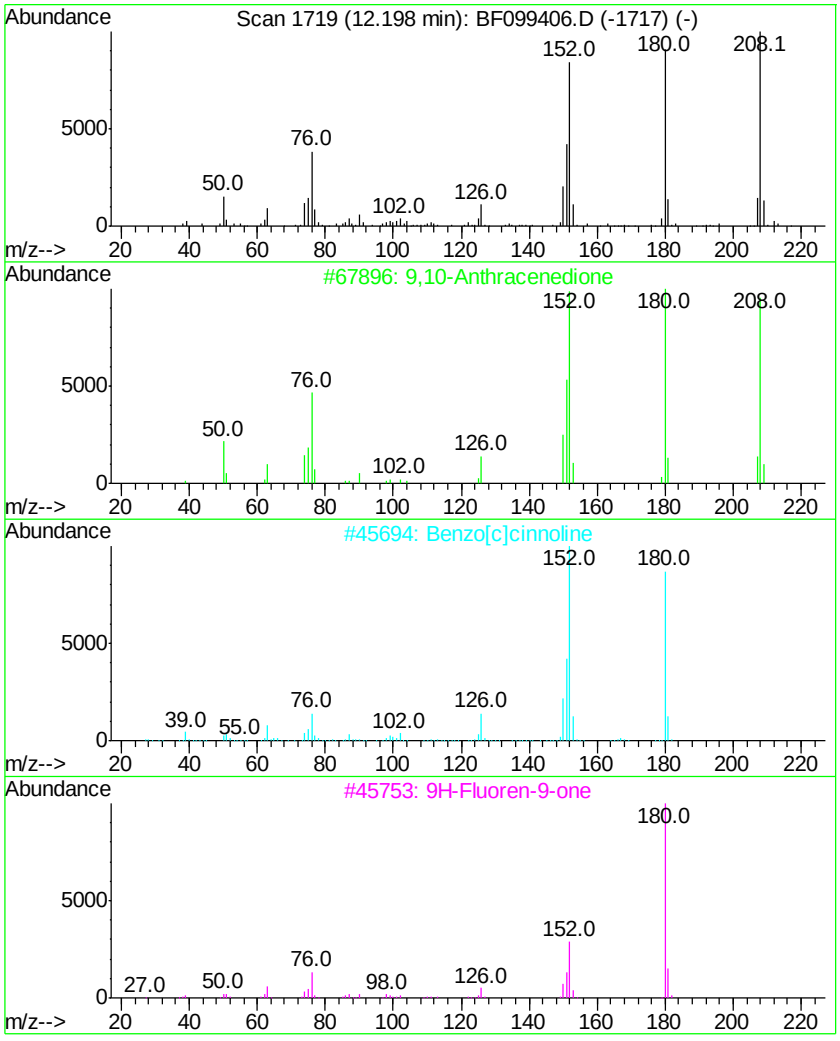
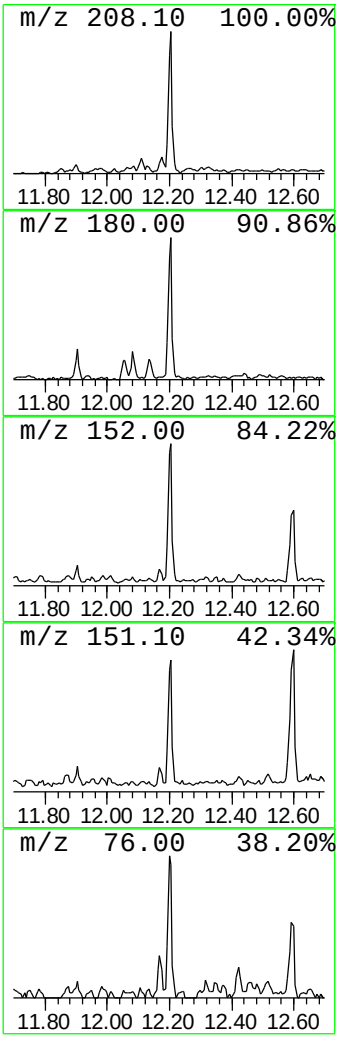
Peak Number 13 9,10-Anthracenedione Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	5.52 ng	189139	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	58
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	53
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	49





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Sample : I5729-06 5X
Misc :
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Instrument : BNA_F
ClientSampleId : 3W-(1-2)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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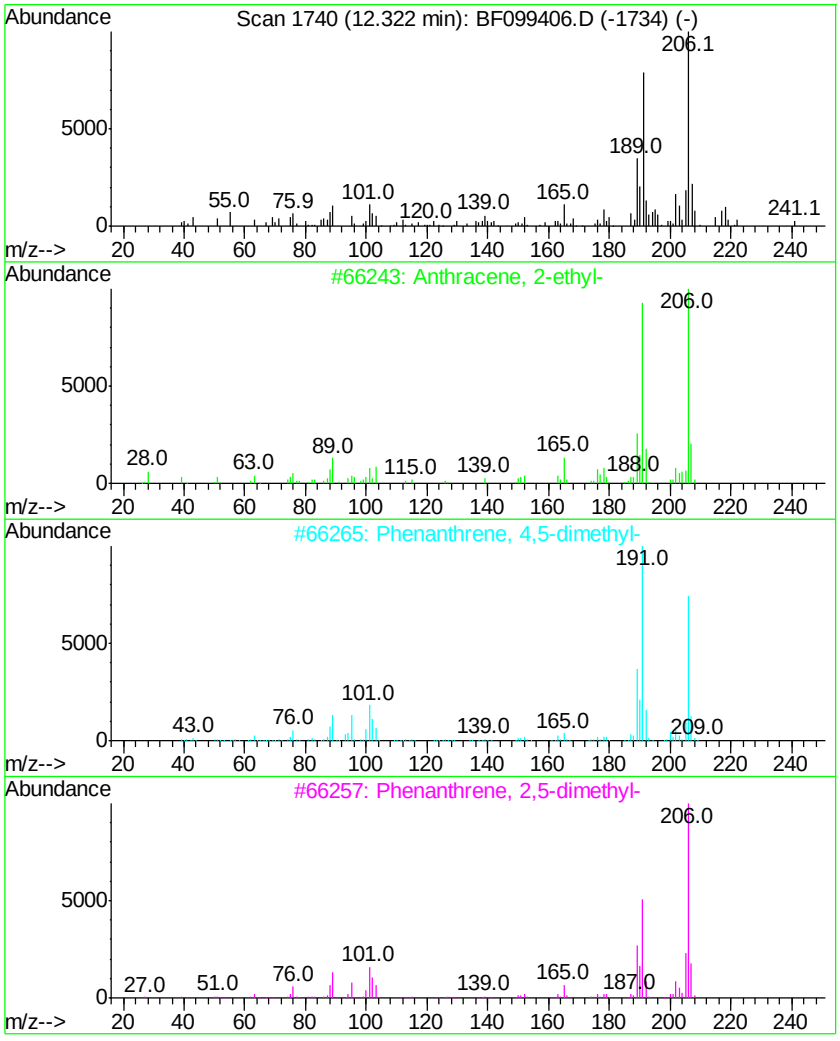
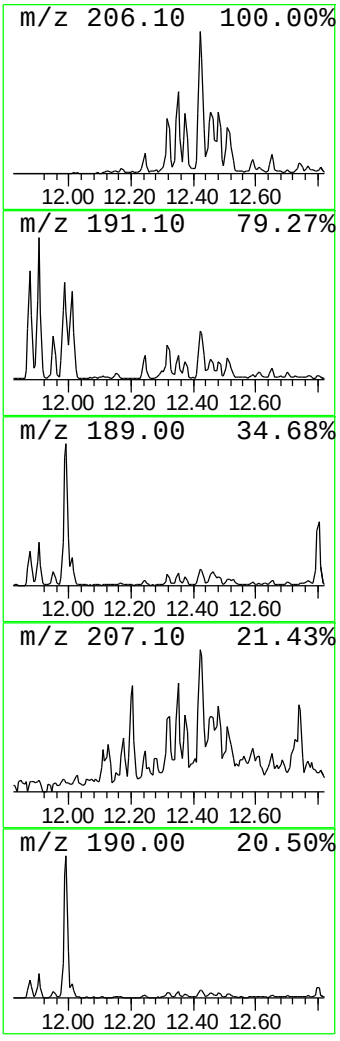
Peak Number 14 Anthracene, 2-ethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.32	3.28 ng	112532	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
4	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90





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Sample : I5729-06 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3W-(1-2)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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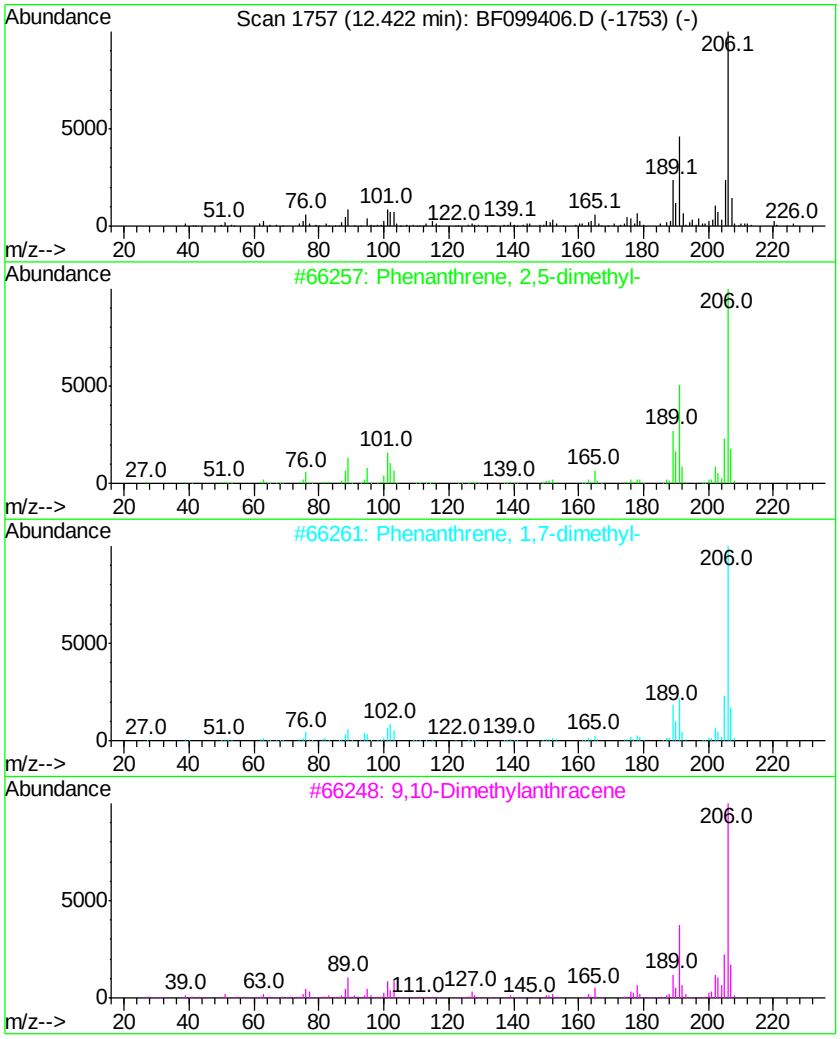
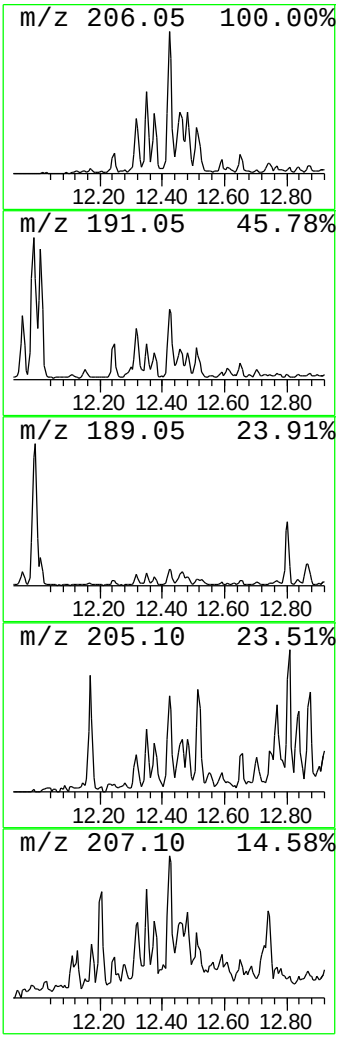
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	5.49 ng	188210	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	96
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90





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

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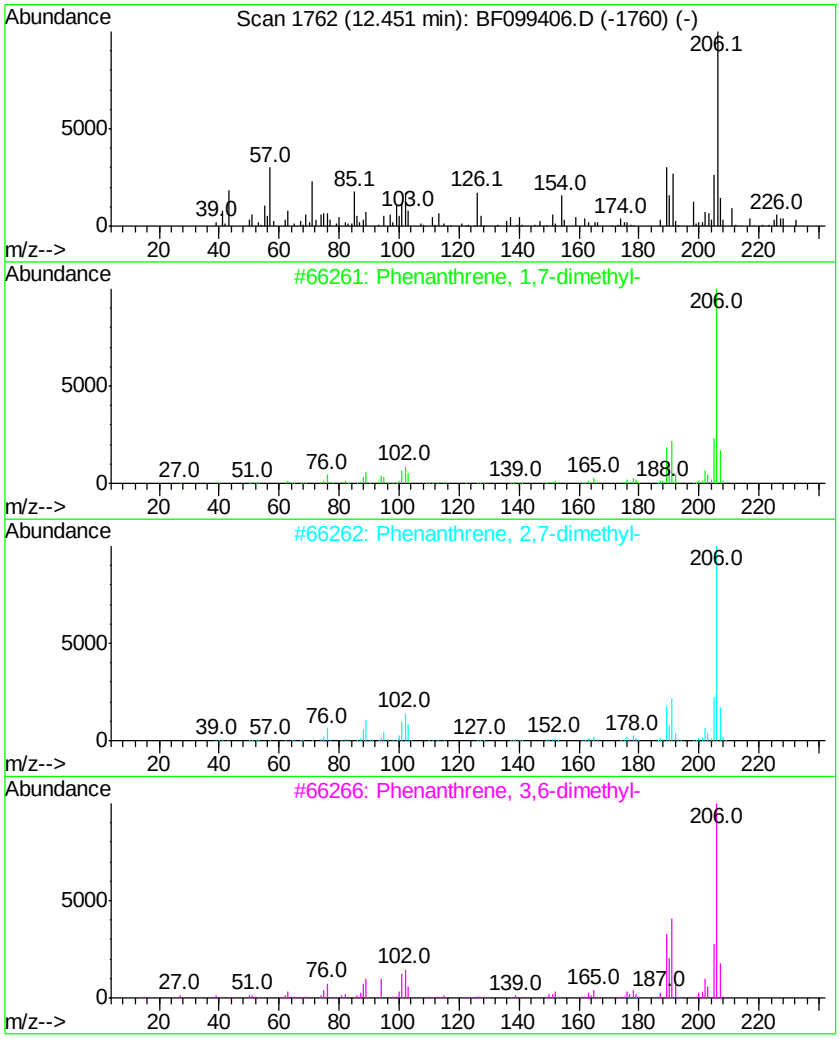
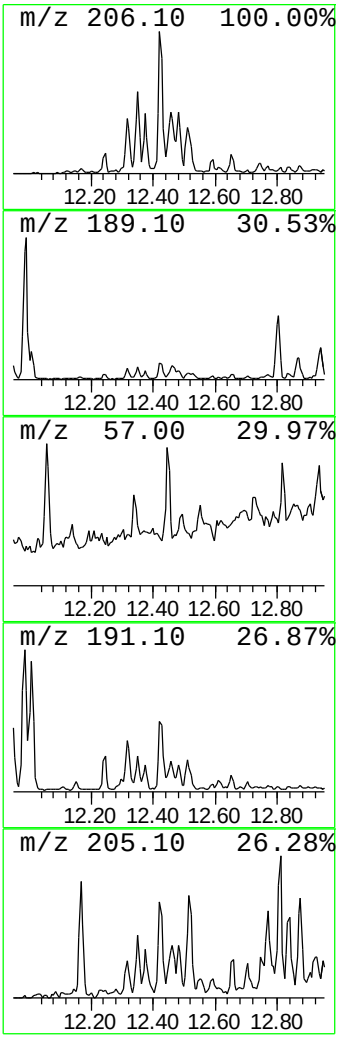
Peak Number 16 Phenanthrene, 1,7-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	3.43 ng	117713	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
2	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	89
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	58
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	58





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

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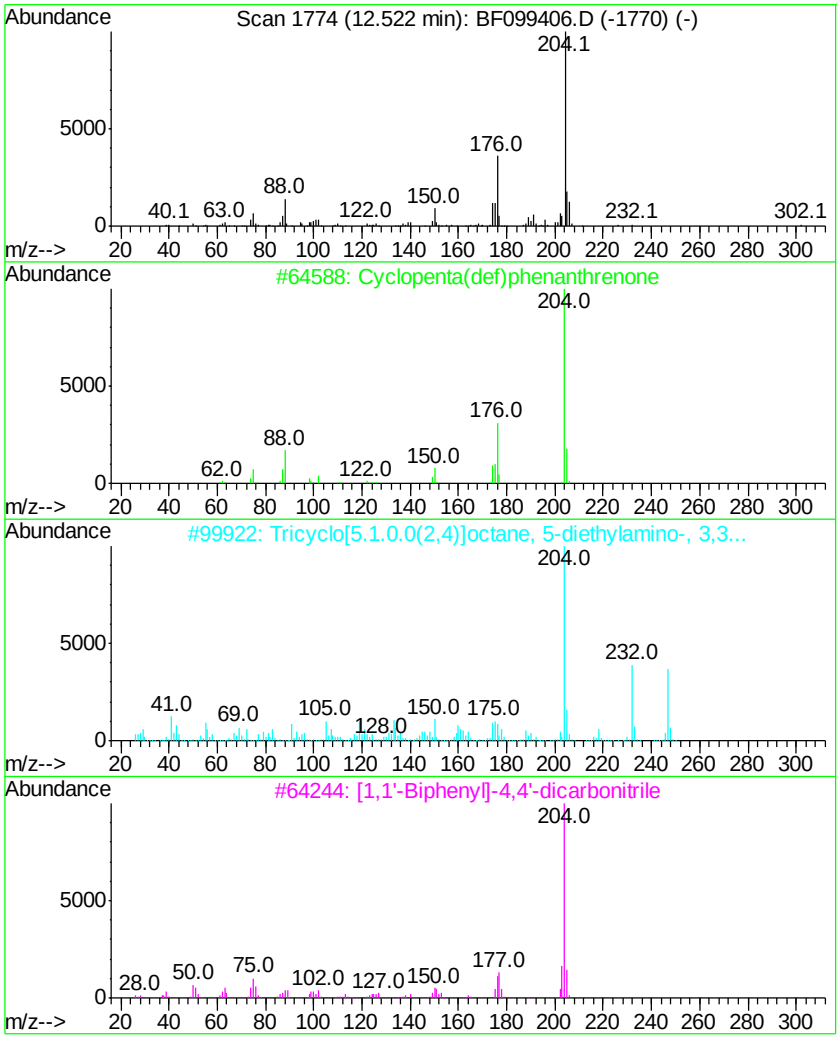
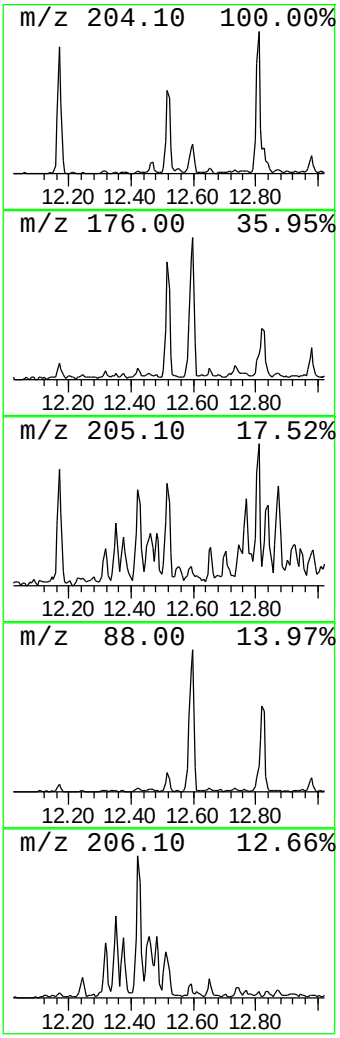
Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	5.19 ng	177965	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	98
2	Tricyclo[5.1.0.0(2,4)]octane, 5-...	247	C17H29N	1000063-59-3	43
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	43
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	41
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	38





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

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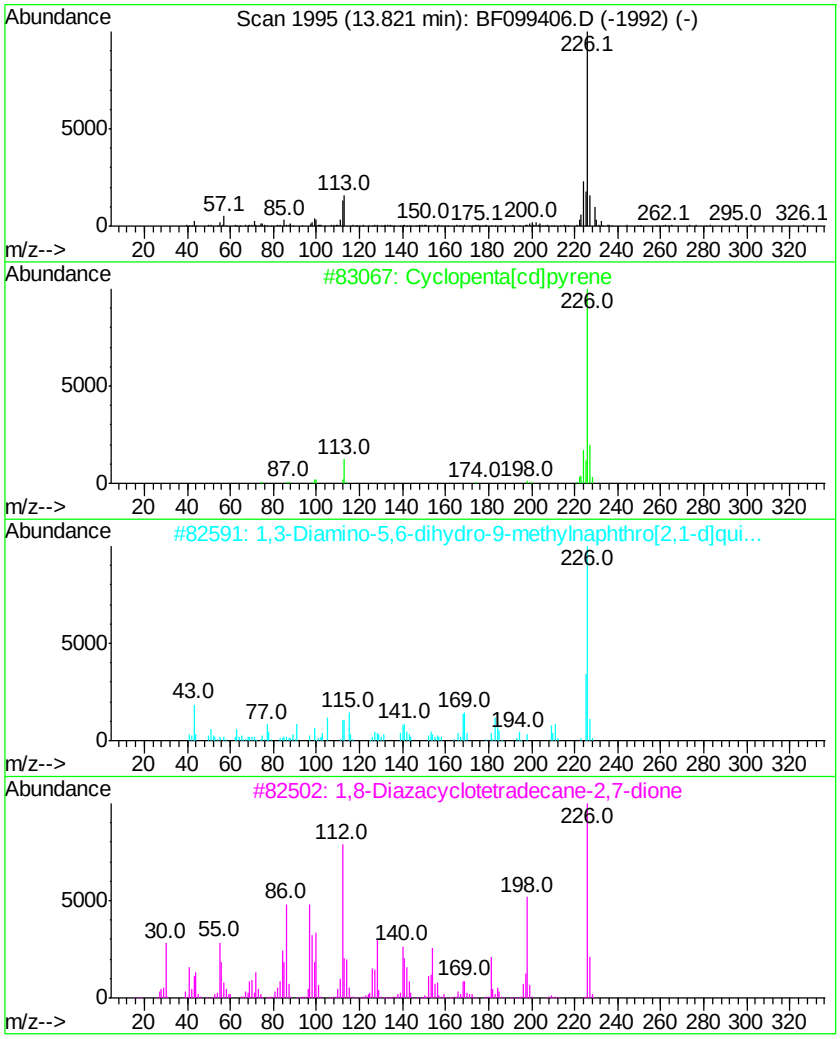
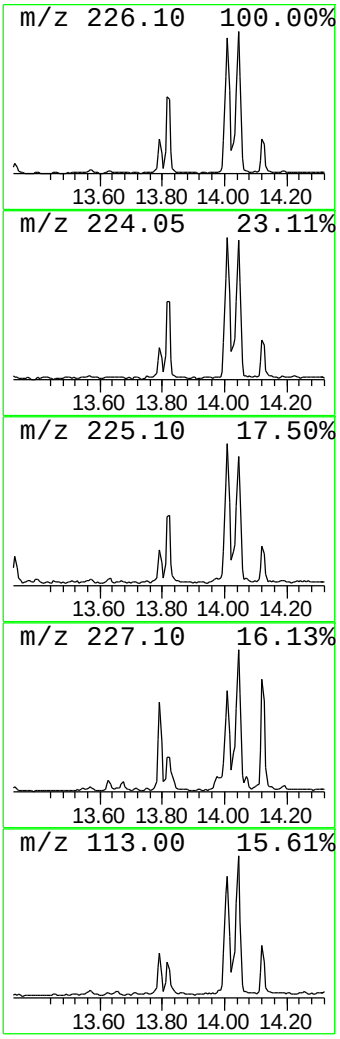
Peak Number 18 Cyclopenta[cd]pyrene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.82	3.64 ng	315096	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	52
2	1,3-Diamino-5,6-dihydro-9-methyl...	226	C13H14N4	037436-39-8	40
3	1,8-Diazacyclotetradecane-2,7-dione	226	C12H22N2O2	004266-66-4	37
4	4-Naphthalen-2-yl-thiazol-2-ylamine	226	C13H10N2S	1000300-53-4	33
5	Anthracene, 1,8-diethynyl-	226	C18H10	078053-58-4	32





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Data File : BF099406.D
Acq On : 12 Oct 2017 20:32
Operator : SJ/JU
Sample : I5729-06 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3W-(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

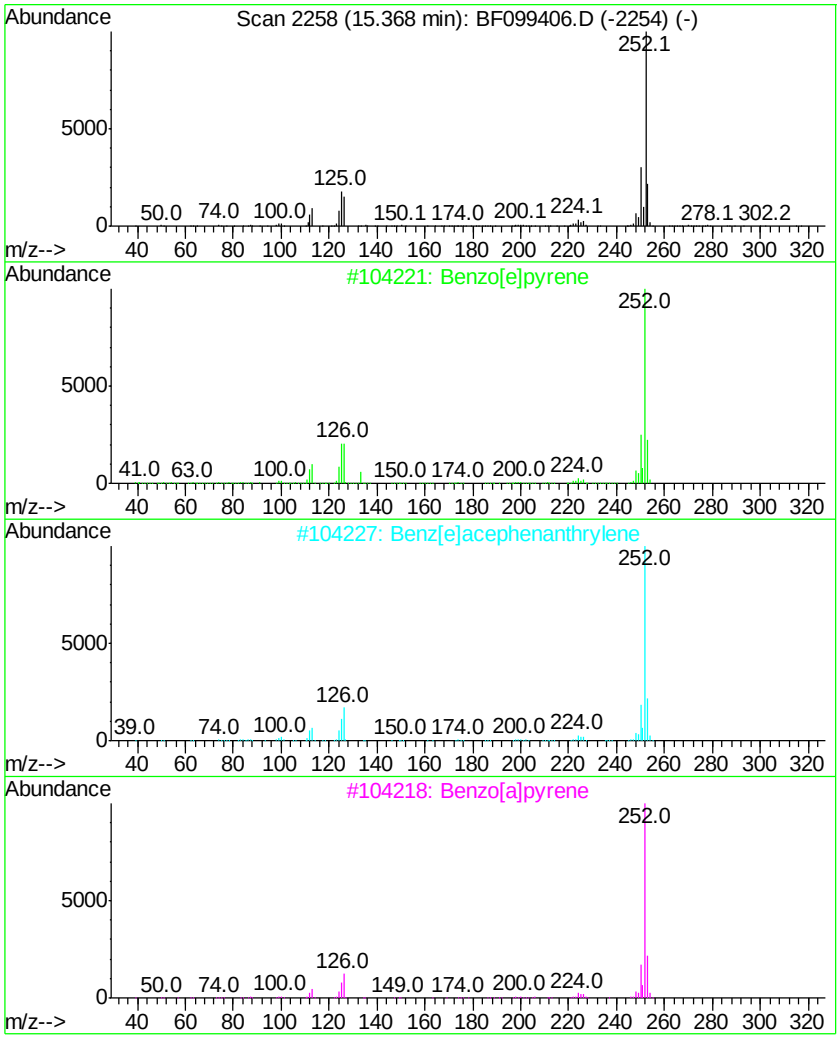
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

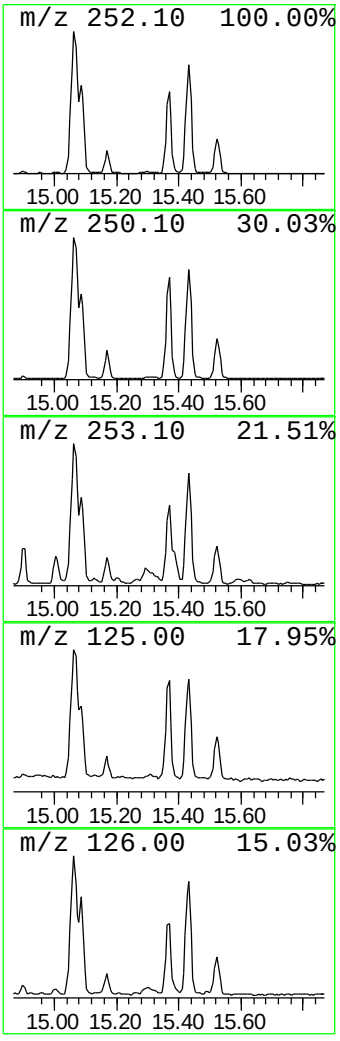
****

Peak Number 20 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.37	21.13 ng	569820	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	98
3	Benzo[a]pyrene	252	C20H12	000050-32-8	96
4	Perylene	252	C20H12	000198-55-0	96
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	91





Tentatively Identified Compound (LSC) summary

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_F\DATA\BF101217\
Data File : BF099406.D
Acq On : 12 Oct 2017 20:32
Operator : SJ/JU
Sample : I5729-06 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 3W-(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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
unknown6.62	6.62	16.5	ng	553029	1	6.85	670552	20.0
Pentadecane, 2,6,...	10.79	4.7	ng	159767	4	11.37	685388	20.0
9H-Fluorene, 1-me...	10.98	2.9	ng	99147	4	11.37	685388	20.0
9H-Fluoren-9-one	11.18	4.3	ng	148637	4	11.37	685388	20.0
Anthracene, 1,2,3...	11.23	4.5	ng	153696	4	11.37	685388	20.0
Dibenzothiophene	11.27	4.5	ng	152721	4	11.37	685388	20.0
Phenanthrene, 2-m...	11.90	8.1	ng	277490	4	11.37	685388	20.0
4H-Cyclopenta[def...	11.99	12.7	ng	435424	4	11.37	685388	20.0
Naphthalene, 2-ph...	12.17	6.0	ng	206989	4	11.37	685388	20.0
9,10-Anthracenedione	12.20	5.5	ng	189139	4	11.37	685388	20.0
Anthracene, 2-ethyl-	12.32	3.3	ng	112532	4	11.37	685388	20.0
Phenanthrene, 2,5...	12.42	5.5	ng	188210	4	11.37	685388	20.0
Phenanthrene, 1,7...	12.45	3.4	ng	117713	4	11.37	685388	20.0
Cyclopenta(def)ph...	12.52	5.2	ng	177965	4	11.37	685388	20.0
Cyclopenta[cd]pyrene	13.82	3.6	ng	315096	5	14.02	1732050	20.0
Benzo[e]pyrene	15.37	21.1	ng	569820	6	15.49	539227	20.0