LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105036.D
Acq On : 2 May 2018 17:35
Operator : JU/SJ
Sample : J2157-15 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-B

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-BF040618.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	5.398	559	563	584	rBV	844293	894381	34.80%	1.933%
2	6.422	734	737	756	rBV	792506	918282	35.72%	1.985%
3	6.557	756	760	766	rBV	1171825	966032	37.58%	2.088%
4	6.786	796	799	807	rBV	656657	535415	20.83%	1.157%
5	6.939	822	825	836	rBV	858080	764281	29.73%	1.652%
6	7.351	892	895	902	rBV	500762	543867	21.16%	1.176%
7	8.075	1014	1018	1029	rVB	745950	739912	28.79%	1.599%
8	8.886	1151	1156	1163	rVV	228692	207321	8.07%	0.448%
9	9.145	1197	1200	1205	rBV	1288712	1057505	41.14%	2.286%
10	9.416	1241	1246	1250	rBV	196629	270230	10.51%	0.584%
11	9.486	1254	1258	1261	rVV	386590	393567	15.31%	0.851%
12	9.516	1261	1263	1266	rVV2	129070	147687	5.75%	0.319%
13	9.545	1266	1268	1274	rVV2	121192	160894	6.26%	0.348%
14	9.604	1274	1278	1287	rVB	215897	247380	9.62%	0.535%
15	9.692	1289	1293	1298	rVV2	344626	318558	12.39%	0.689%
16	9.827	1313	1316	1319	rVB2	816557	702119	27.32%	1.518%
17	9.863	1319	1322	1325	rVB2	168833	143454	5.58%	0.310%
18	10.027	1345	1350	1354	rVB2	229127	263424	10.25%	0.569%
19	10.069	1354	1357	1361	rVB	267536	223427	8.69%	0.483%
20	10.145	1366	1370	1373	rBV	272227	292984	11.40%	0.633%
21	10.174	1373	1375	1381	rVB	173169	148111	5.76%	0.320%
22	10.233	1381	1385	1387	rBV	139349	221342	8.61%	0.478%
23	10.380	1406	1410	1415	rVB3	338595	426517	16.59%	0.922%
24	10.445	1415	1421	1422	rBV2	114429	153127	5.96%	0.331%
25	10.533	1431	1436	1439	rVB4	95908	141469	5.50%	0.306%
26	10.622	1444	1451	1455	rBV3	655834	702644	27.34%	1.519%
27	10.739	1466	1471	1477	rVB3	169201	259248	10.09%	0.560%
28	10.927	1498	1503	1506	rBV2	281923	356952	13.89%	0.772%
29	10.957	1506	1508	1511	rVV	244786	213454	8.30%	0.461%
30	11.010	1515	1517	1520	rVV	234603	172506	6.71%	0.373%
31	11.057	1520	1525	1527	rVV2	105627	190415	7.41%	0.412%
32	11.080	1527	1529	1534	rVV2	111587	140529	5.47%	0.304%
33	11.127	1534	1537	1540	rVV3	123272	140555	5.47%	0.304%
34	11.174	1541	1545	1547	rVV3	115660	145151	5.65%	0.314%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105036.D
Acq On : 2 May 2018 17:35
Operator : JU/SJ
Sample : J2157-15 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-B

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-BF040618.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.216	1547	1552	1556	rVB	176273	219201	8.53%	0.474%
36	11.321	1566	1570	1572	rBV	738094	674040	26.22%	1.457%
37	11.345	1572	1574	1578	rVV	1464296	1329423	51.72%	2.874%
38	11.398	1580	1583	1585	rVV	547062	446457	17.37%	0.965%
39	11.433	1585	1589	1591	rVV2	187659	261479	10.17%	0.565%
40	11.474	1594	1596	1602	rVV4	105848	205457	7.99%	0.444%
41	11.557	1606	1610	1615	rBV3	118761	236189	9.19%	0.511%
42	11.651	1622	1626	1631	rVB3	219888	278004	10.82%	0.601%
43	11.739	1637	1641	1644	rVB	131925	153840	5.99%	0.333%
44	11.827	1652	1656	1658	rVV	768406	739135	28.76%	1.598%
45	11.857	1658	1661	1664	rVB	962875	855245	33.27%	1.849%
46	11.904	1664	1669	1672	rBV	396428	411420	16.01%	0.889%
47	11.939	1672	1675	1677	rVV2	1103473	1222551	47.56%	2.643%
48	11.963	1677	1679	1684	rVB	760008	604118	23.50%	1.306%
49	12.121	1699	1706	1710	rBV3	337642	484167	18.84%	1.047%
50	12.151	1710	1711	1716	rVB3	163237	164189	6.39%	0.355%
51	12.268	1729	1731	1734	rVV	228483	228048	8.87%	0.493%
52	12.298	1734	1736	1739	rVV	302671	304908	11.86%	0.659%
53	12.327	1739	1741	1743	rVB	254013	188486	7.33%	0.407%
54	12.380	1743	1750	1752	rBV	859458	959398	37.32%	2.074%
55	12.416	1752	1756	1758	rVV2	528589	731152	28.44%	1.580%
56	12.474	1761	1766	1774	rVB4	414224	758898	29.52%	1.640%
57	12.545	1774	1778	1781	rBV	1803645	1671806	65.04%	3.614%
58	12.580	1781	1784	1786	rVV2	173449	168766	6.57%	0.365%
59	12.604	1786	1788	1791	rVV2	228751	189160	7.36%	0.409%
60	12.692	1800	1803	1806	rBV3	150883	176281	6.86%	0.381%
61	12.780	1811	1818	1823	rBV	2223267	2570425	100.00%	5.556%
62	12.827	1823	1826	1829	rVB	306902	323497	12.59%	0.699%
63	12.910	1837	1840	1843	rVV	866868	883415	34.37%	1.909%
64	12.933	1843	1844	1848	rVB2	223786	149573	5.82%	0.323%
65	12.992	1850	1854	1861	rBV3	430254	759781	29.56%	1.642%
66	13.051	1861	1864	1866	rBV	167553	157490	6.13%	0.340%
67	13.086	1866	1870	1871	rBV2	340878	418937	16.30%	0.906%
68	13.110	1871	1874	1876	rVB	649098	638050	24.82%	1.379%
69	13.174	1883	1885	1888	rVV	420867	351264	13.67%	0.759%
70	13.215	1888	1892	1896	rVV	698547	653975	25.44%	1.414%
71	13.310	1905	1908	1911	rVV	552785	525822	20.46%	1.137%

LSC Area Percent Report

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Acq On : 2 May 2018 17:35
Operator : JU/SJ
Sample : J2157-15 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-B

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-BF040618.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.345	1911	1914	1916	rVV	582399	519800	20.22%	1.124%
73	13.527	1941	1945	1946	rVV	160443	191257	7.44%	0.413%
74	13.545	1946	1948	1951	rVV2	174811	184853	7.19%	0.400%
75	13.610	1955	1959	1961	rBV2	176895	243270	9.46%	0.526%
76	13.639	1961	1964	1968	rVB3	337060	396120	15.41%	0.856%
77	13.757	1978	1984	1986	rBV3	303645	489721	19.05%	1.059%
78	13.780	1986	1988	1991	rVB	288351	228682	8.90%	0.494%
79	13.810	1991	1993	1996	rBV2	134790	173022	6.73%	0.374%
80	13.862	2000	2002	2005	rVB	207301	185118	7.20%	0.400%
81	14.015	2024	2028	2032	rBV2	1161767	1854014	72.13%	4.007%
82	14.057	2032	2035	2038	rVV	1066218	1070195	41.63%	2.313%
83	14.192	2055	2058	2064	rBV5	129306	246154	9.58%	0.532%
84	14.374	2085	2089	2092	rBV2	127264	141702	5.51%	0.306%
85	14.410	2092	2095	2097	rBV	175010	191121	7.44%	0.413%
86	14.451	2097	2102	2106	rVV	567553	742865	28.90%	1.606%
87	14.486	2106	2108	2112	rVV	328591	339703	13.22%	0.734%
88	14.533	2112	2116	2118	rVV	179973	266460	10.37%	0.576%
89	14.557	2118	2120	2123	rVV	209645	215545	8.39%	0.466%
90	14.592	2123	2126	2128	rVV	323720	323544	12.59%	0.699%
91	14.615	2128	2130	2133	rVB	205103	170985	6.65%	0.370%
92	14.992	2191	2194	2198	rVV	187809	250998	9.76%	0.543%
93	15.051	2202	2204	2211	rVB3	112315	168006	6.54%	0.363%
94	15.157	2218	2222	2229	rVB	515255	914684	35.58%	1.977%
95	15.262	2237	2240	2245	rVB	140679	159976	6.22%	0.346%
96	15.462	2270	2274	2279	rVB	405154	484332	18.84%	1.047%
97	15.527	2280	2285	2290	rBV	606675	760476	29.59%	1.644%
98	15.586	2291	2295	2298	rBV	330564	412328	16.04%	0.891%
99	17.074	2542	2548	2555	rVB2	177549	342070	13.31%	0.739%
100	17.521	2619	2624	2633	rVB	143867	300961	11.71%	0.651%

Sum of corrected areas: 46264749

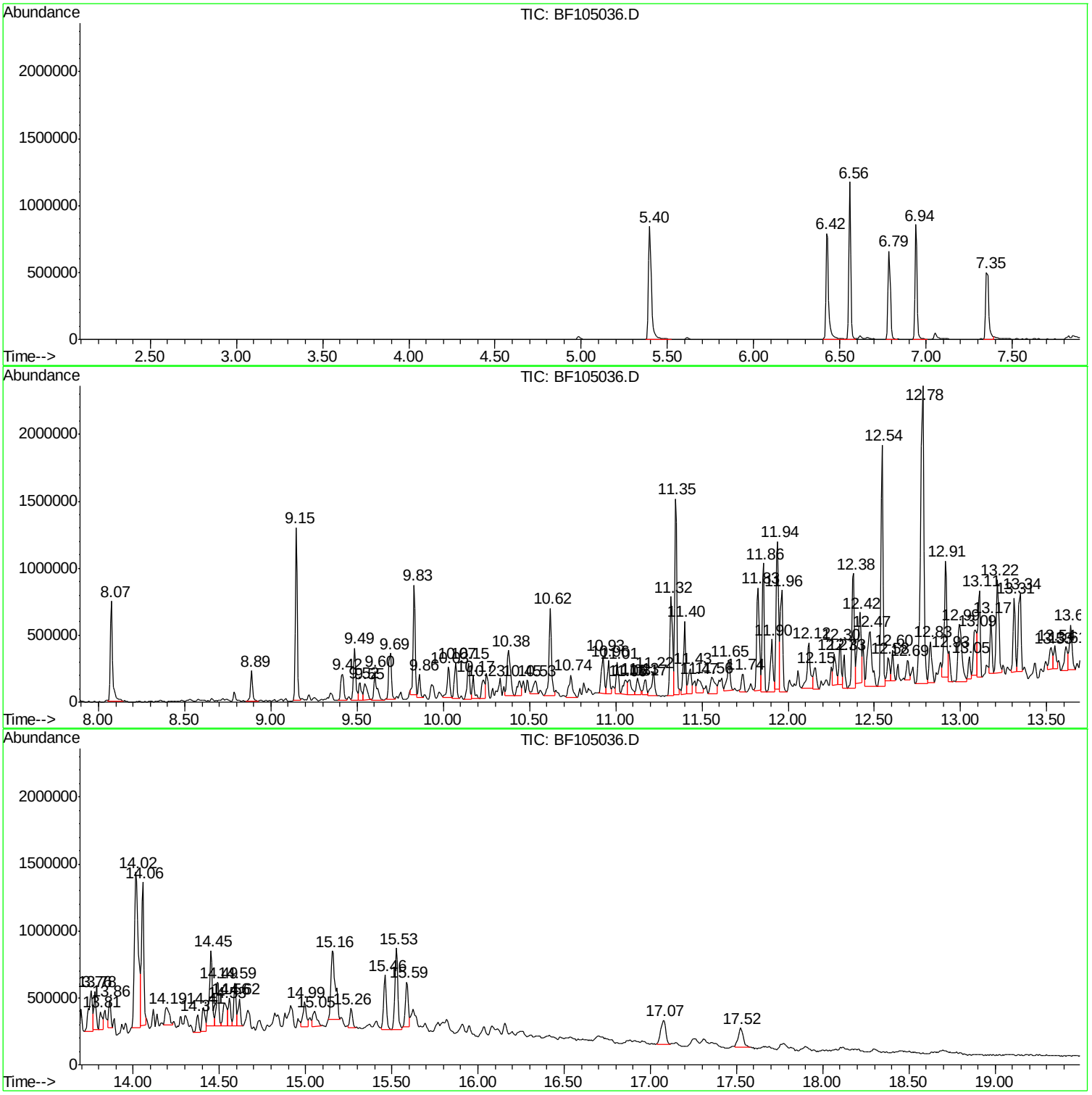
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105036.D
Acq On : 2 May 2018 17:35
Operator : JU/SJ
Sample : J2157-15 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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\BF050218\
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Instrument : BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

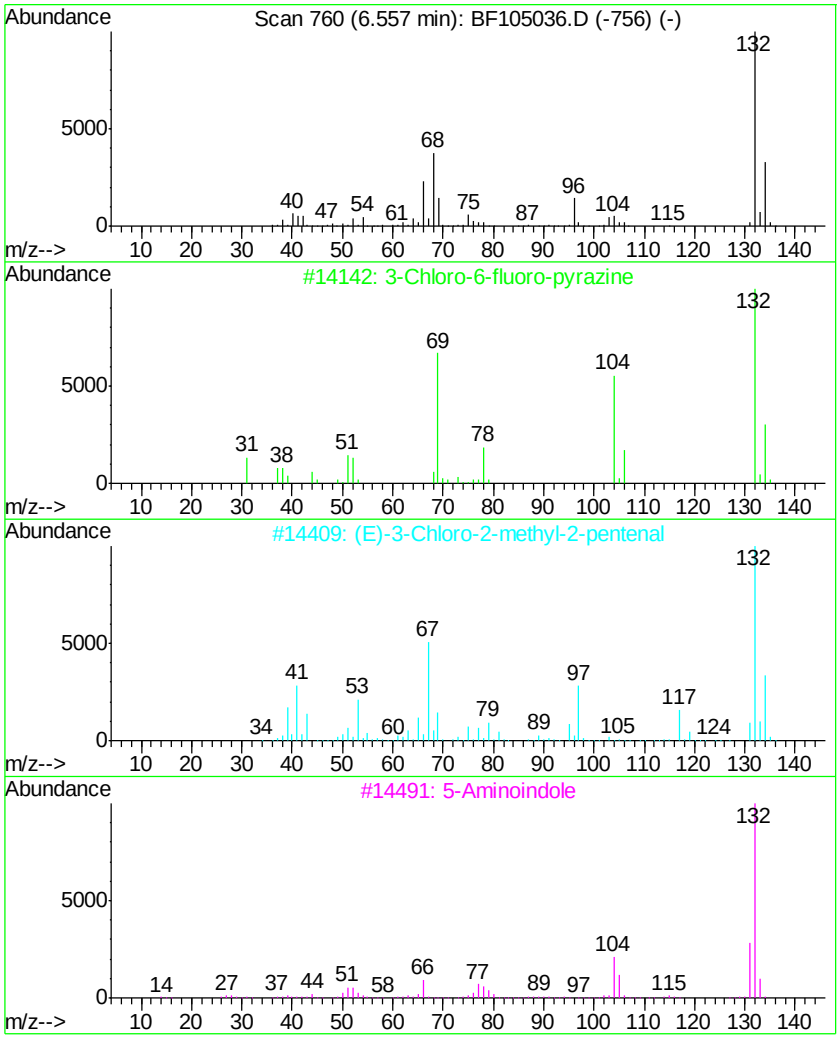
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

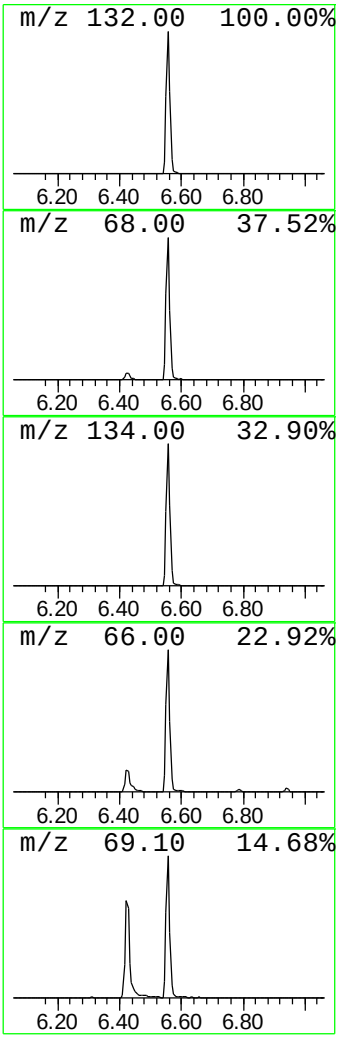
****

Peak Number 1 unknown6.56 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.56	36.09 ng	966032	1,4-Dichlorobenzene-d4	6.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9
5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105036.D
Acq On : 2 May 2018 17:35
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Sample : J2157-15 2X
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Instrument : BNA_F
ClientSampleId : CL-02-043018-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

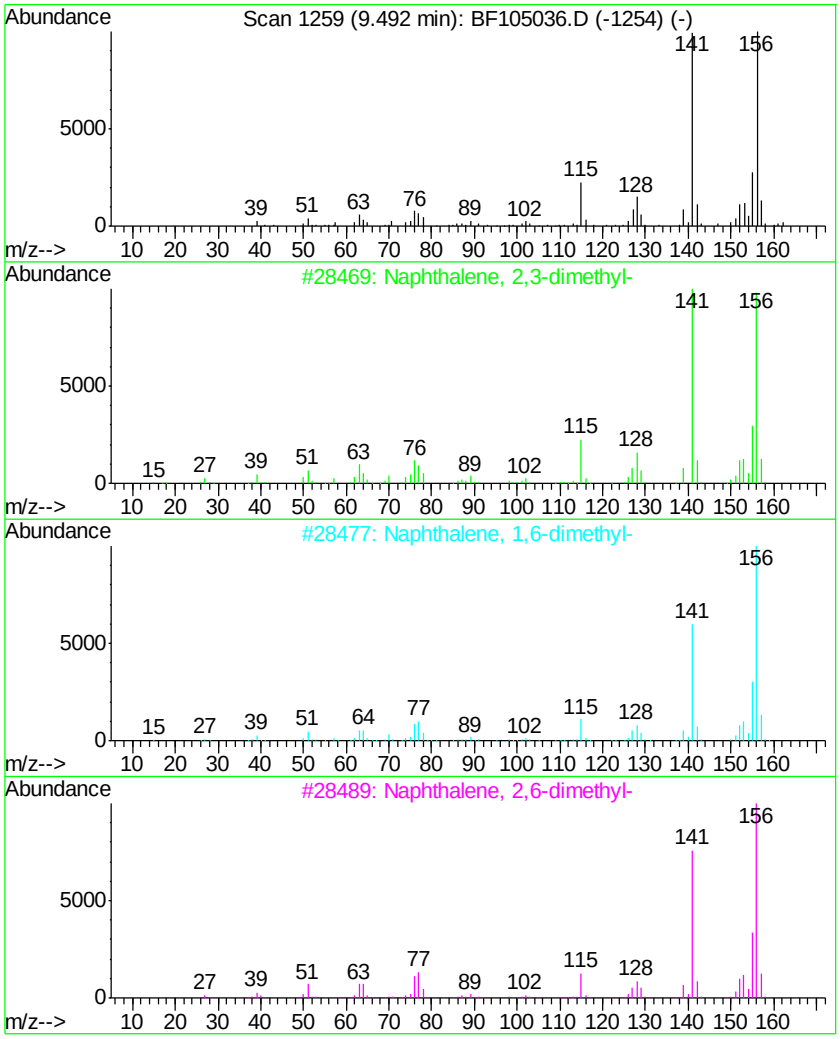
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

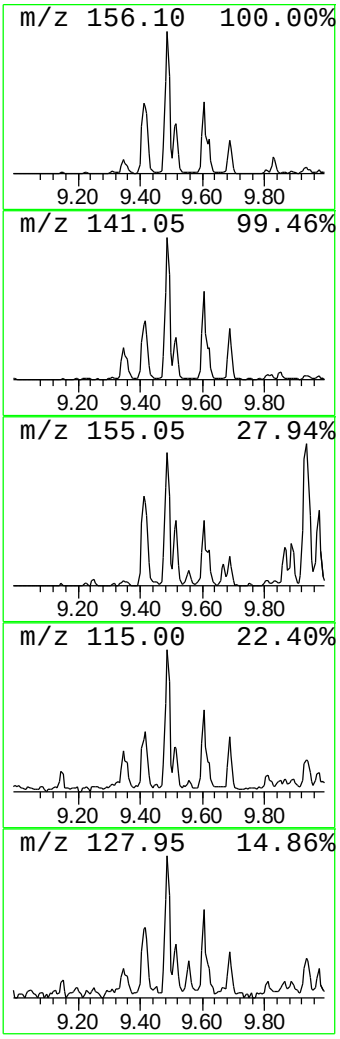
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.49	11.21 ng	393567	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
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Instrument : BNA_F
ClientSampleId : CL-02-043018-B

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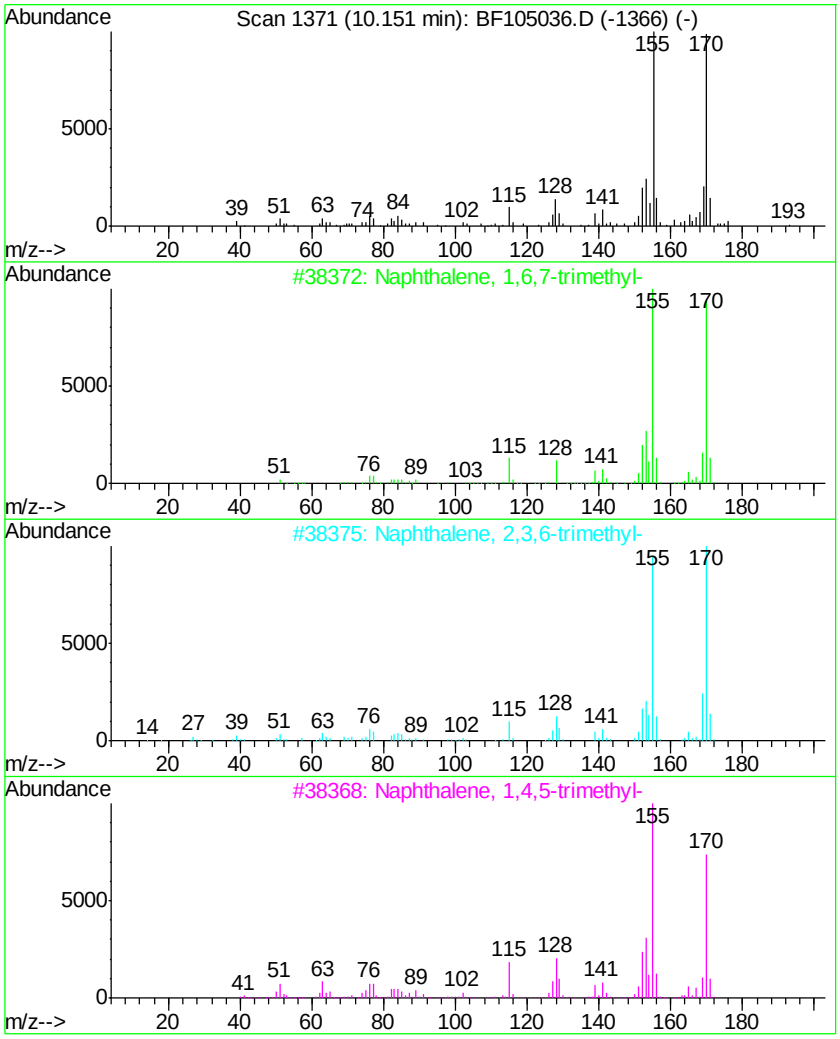
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

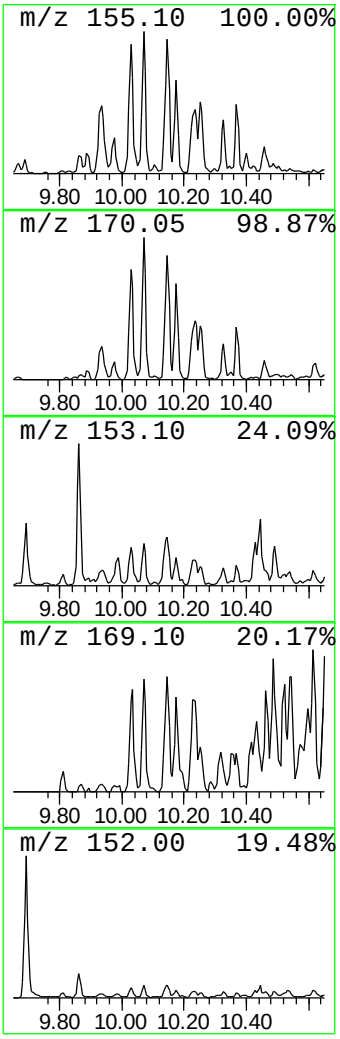
****

Peak Number 4 Naphthalene, 1,6,7-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.15	8.35 ng	292984	Acenaphthene-d10	9.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	98
2	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96
3	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	96
4	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	91





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
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Sample : J2157-15 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

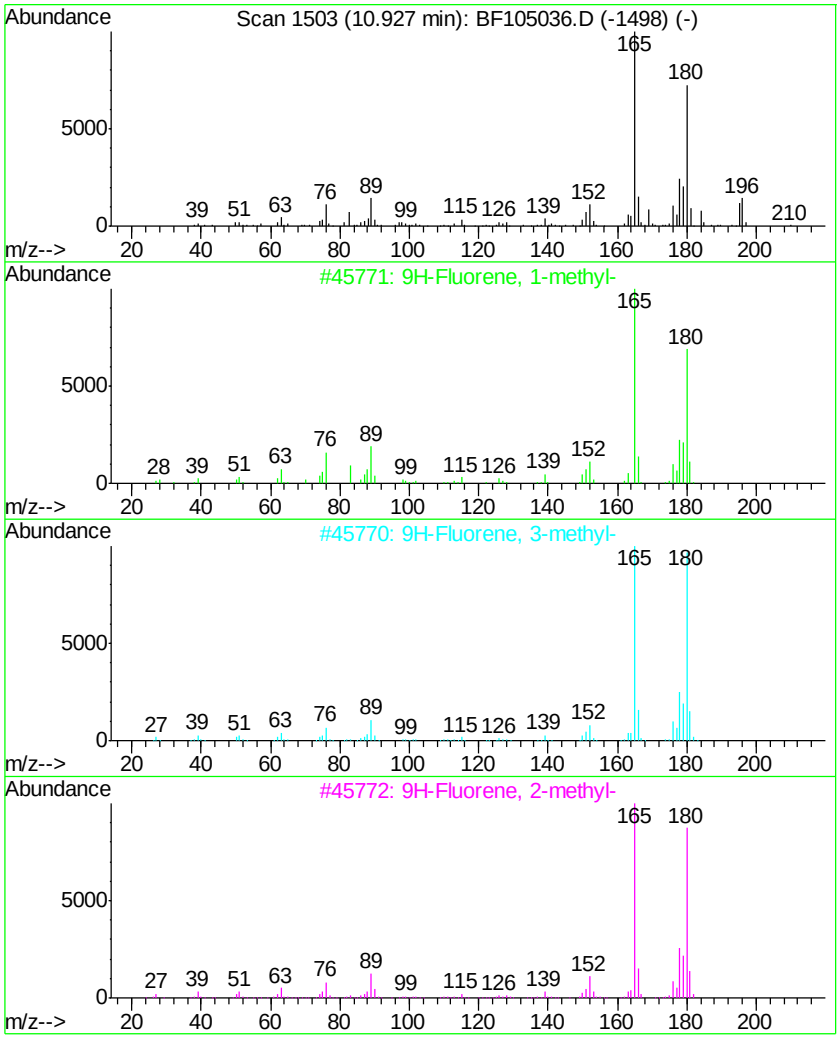
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

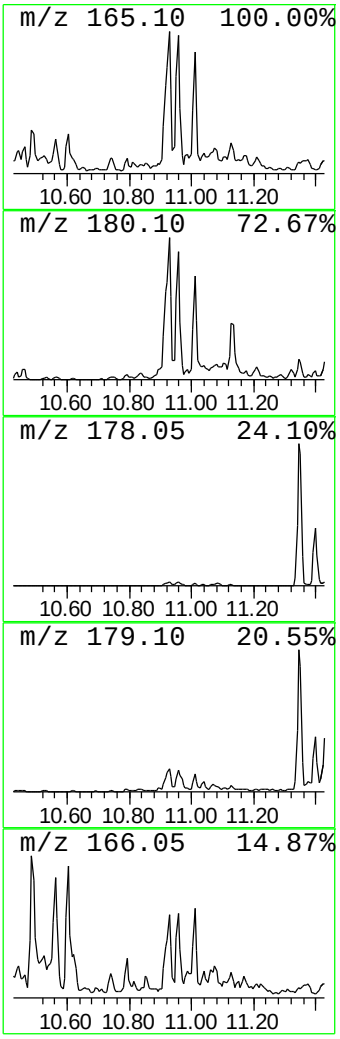
****

Peak Number 5 9H-Fluorene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.93	10.59 ng	356952	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	95
2	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	92
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	76
5	(3H)Benzo[c]pyrrole, 3-methyl-3-...	208	C14H12N2	059341-20-7	64





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105036.D
Acq On : 2 May 2018 17:35
Operator : JU/SJ
Sample : J2157-15 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

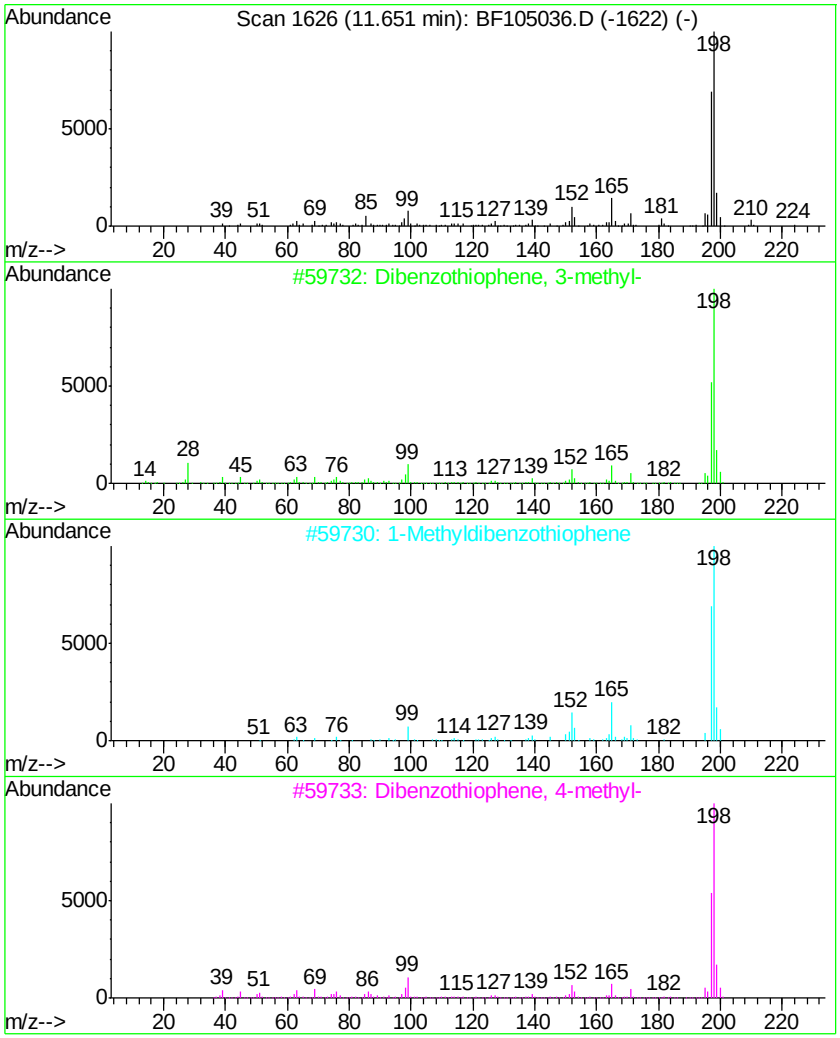
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

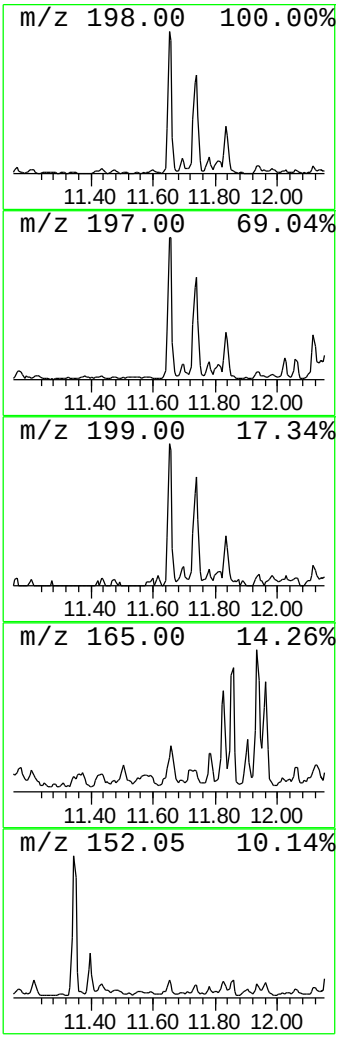
****

Peak Number 6 Dibenzothiophene, 3-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.65	8.25 ng	278004	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	96
2	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	93
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	93
4	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	90
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	83





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Acq On : 2 May 2018 17:35
Operator : JU/SJ
Sample : J2157-15 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-B

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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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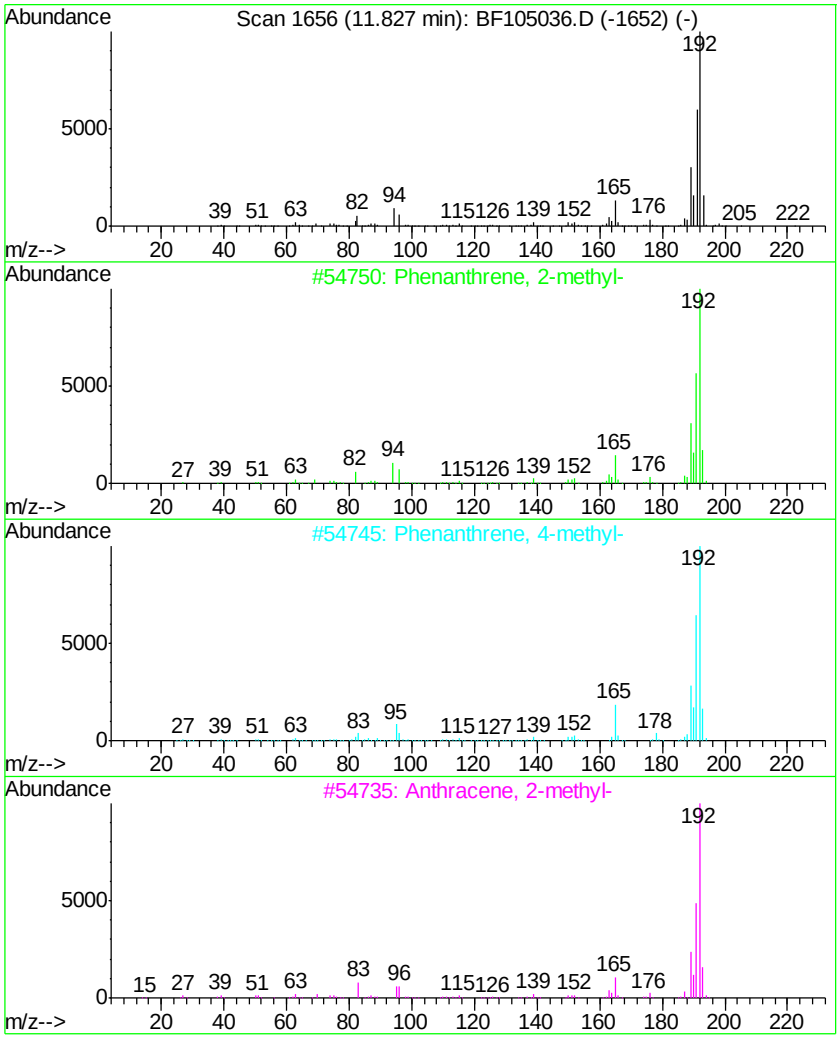
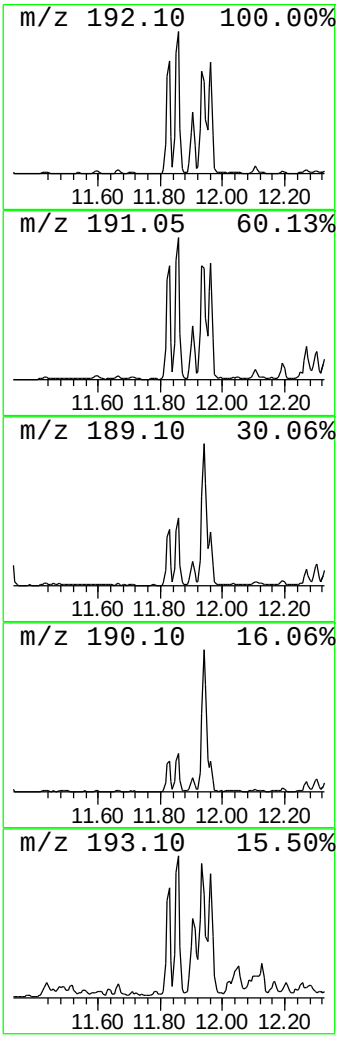
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	21.93 ng	739135	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Instrument : BNA_F
ClientSampleId : CL-02-043018-B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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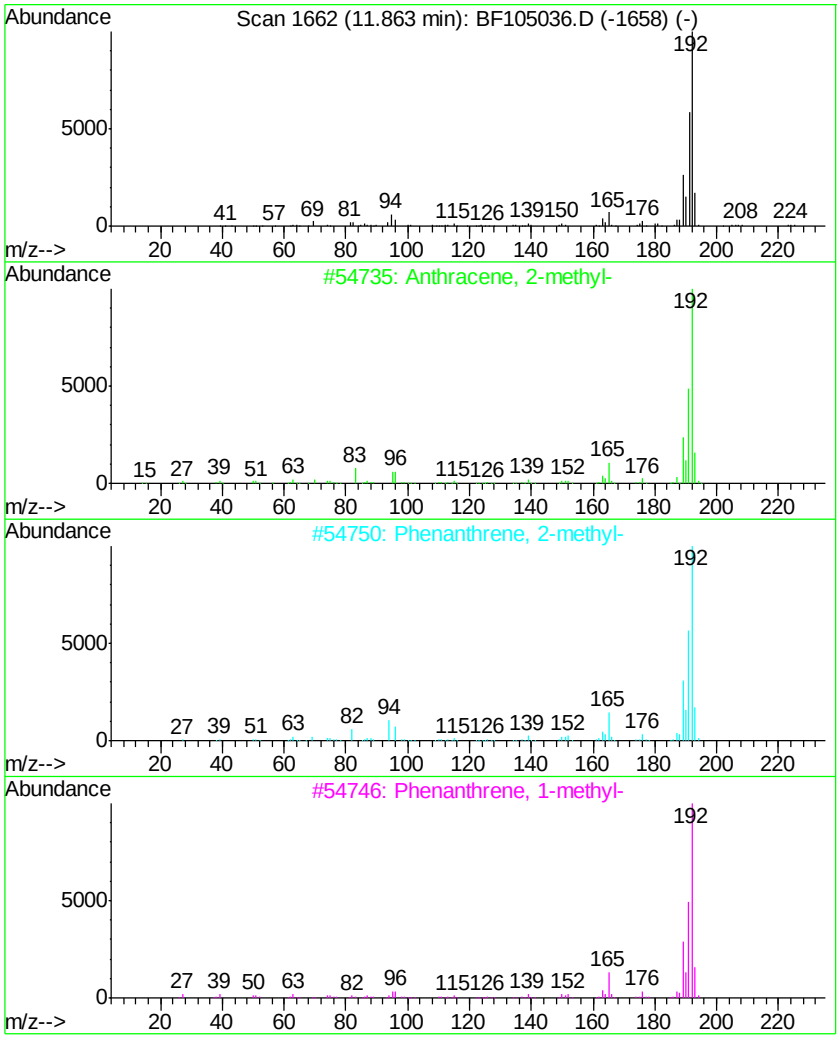
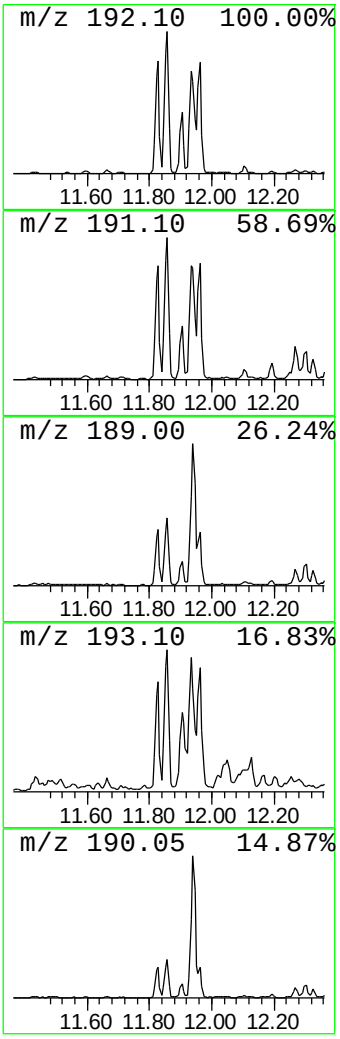
Peak Number 8 Anthracene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	25.38 ng	855245	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94





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ClientSampleId : CL-02-043018-B

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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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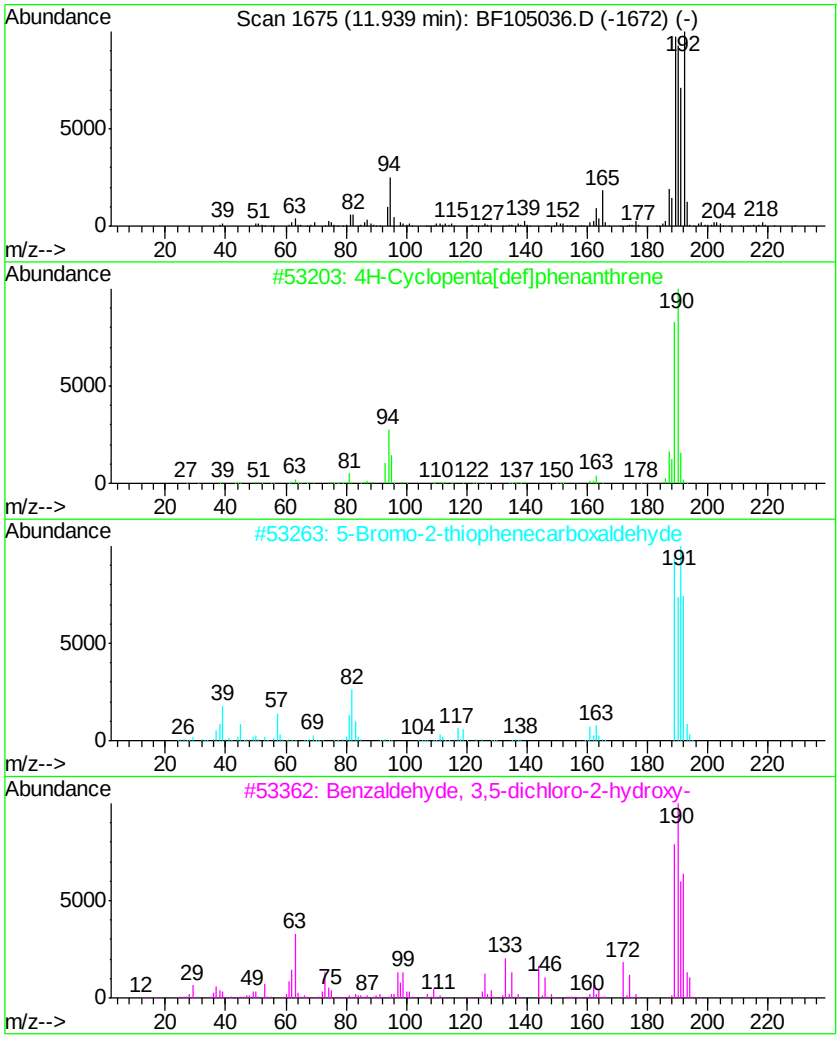
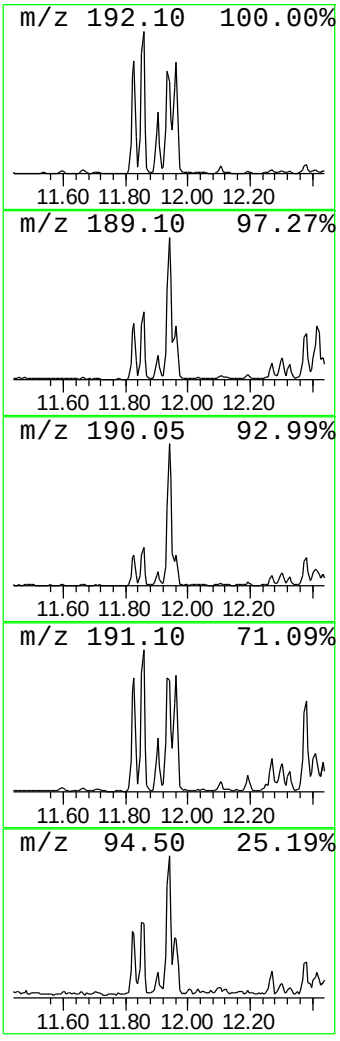
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	36.28 ng	1222550	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	90
2	5-Bromo-2-thiophenecarboxaldehyde	190	C5H3BrOS	004701-17-1	59
3	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	58
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	46





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Sample : J2157-15 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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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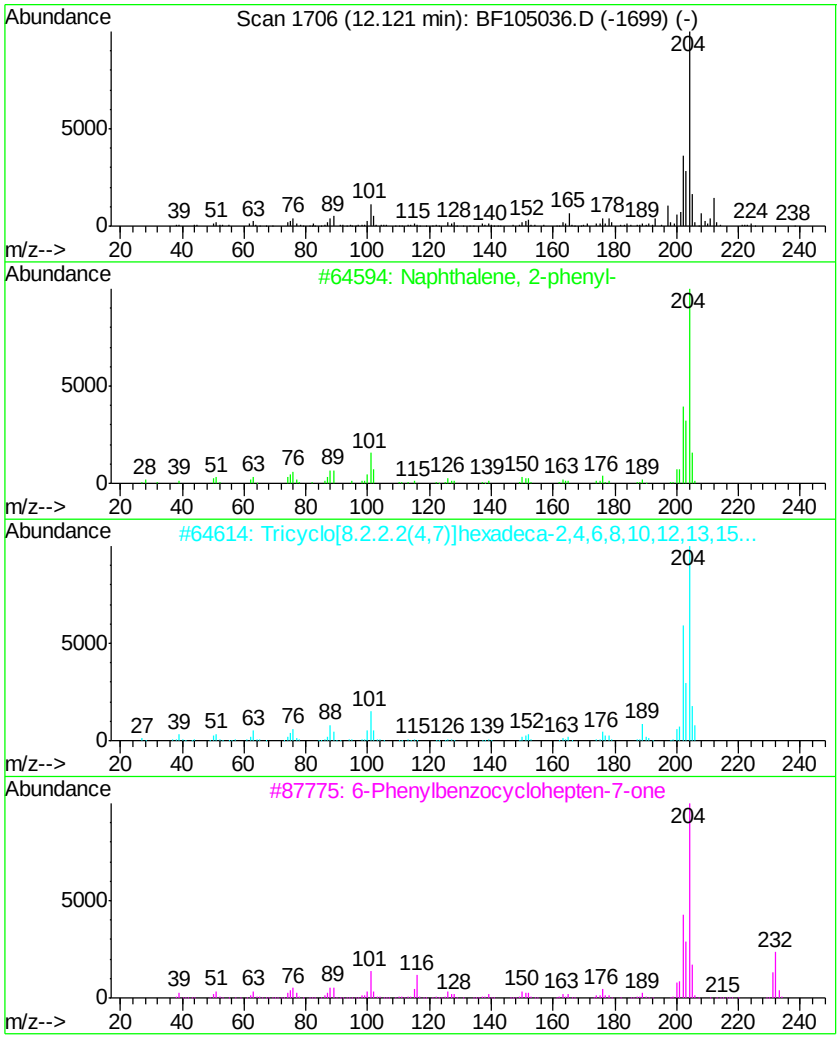
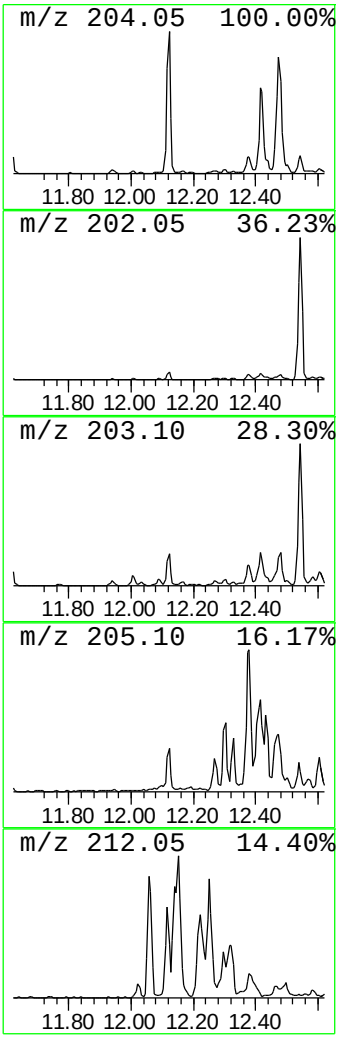
Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	14.37 ng	484167	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	86
3	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	74
4	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	55
5	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	55





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ALS Vial : 18 Sample Multiplier: 1

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ClientSampleId : CL-02-043018-B

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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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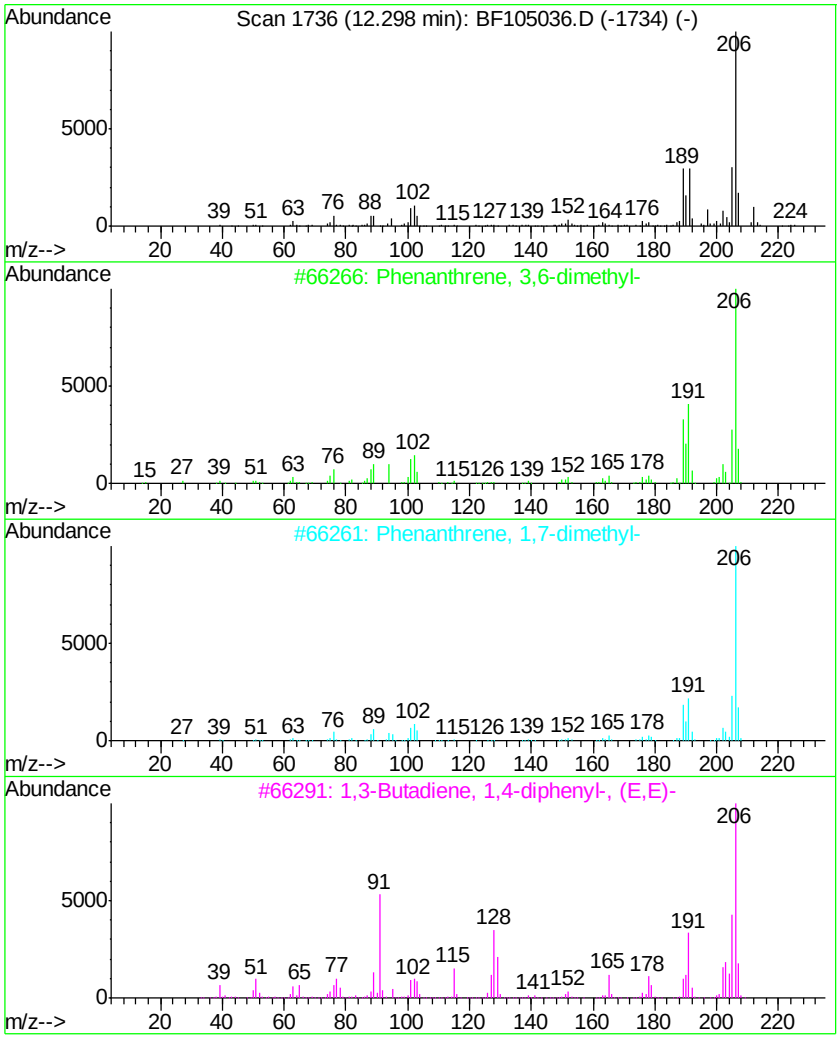
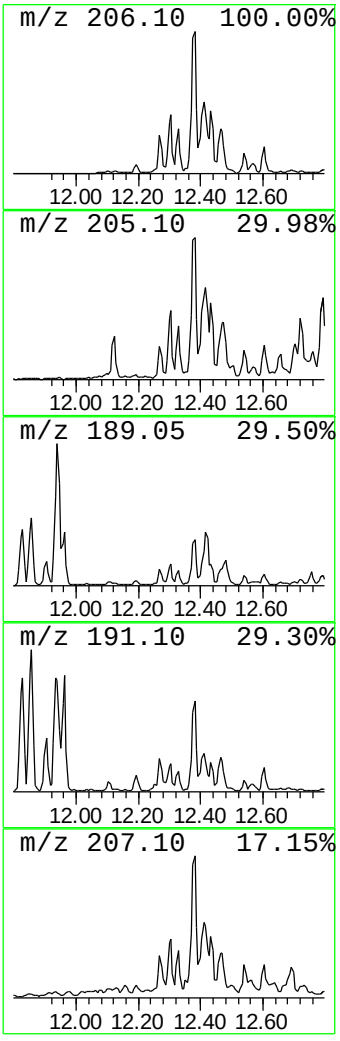
Peak Number 13 Phenanthrene, 3,6-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	9.05 ng	304908	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
3	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	87
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	86
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	76





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Sample : J2157-15 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-B

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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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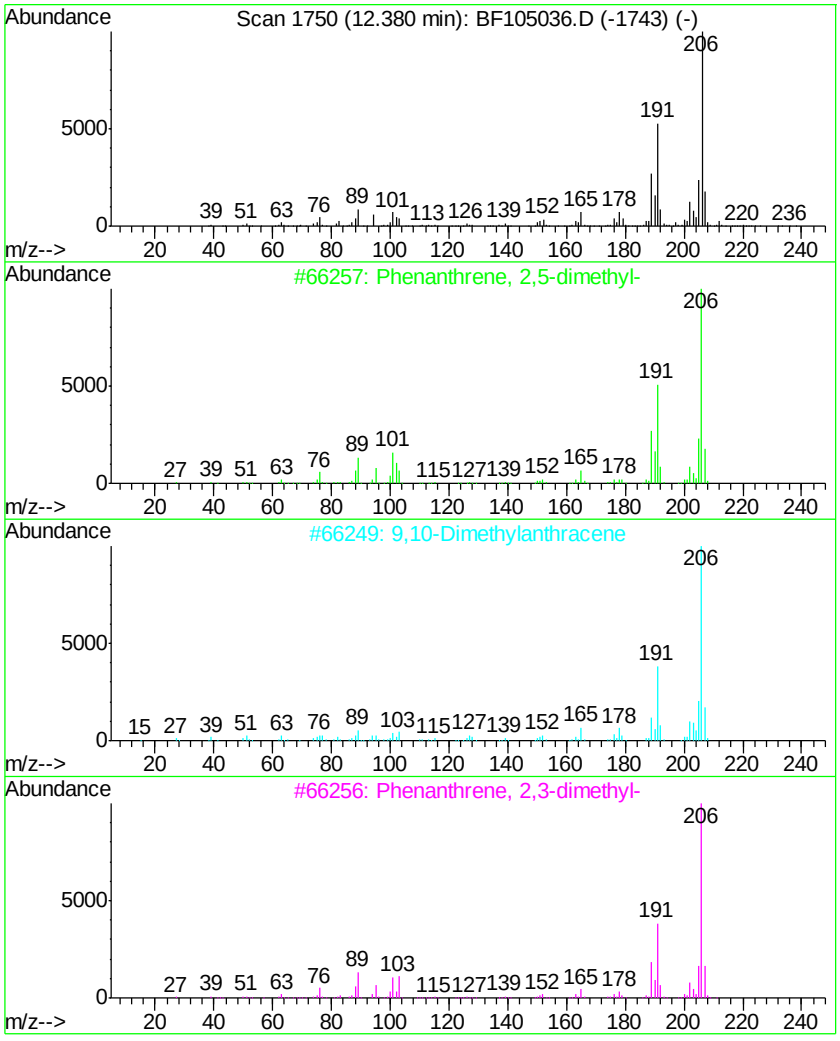
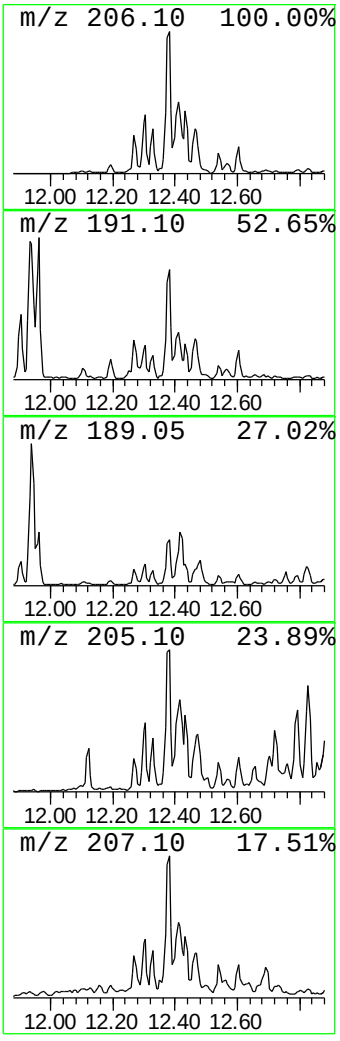
Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.38	28.47 ng	959398	Phenanthrene-d10	11.32

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	95
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90





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ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-B

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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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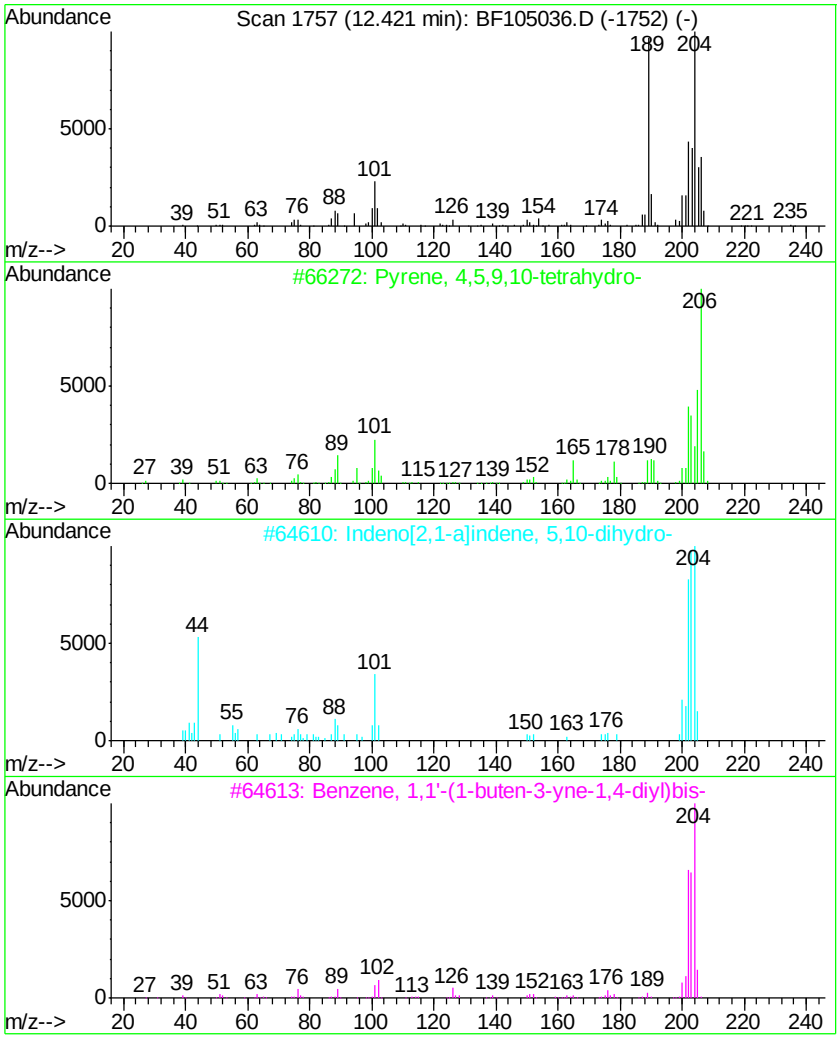
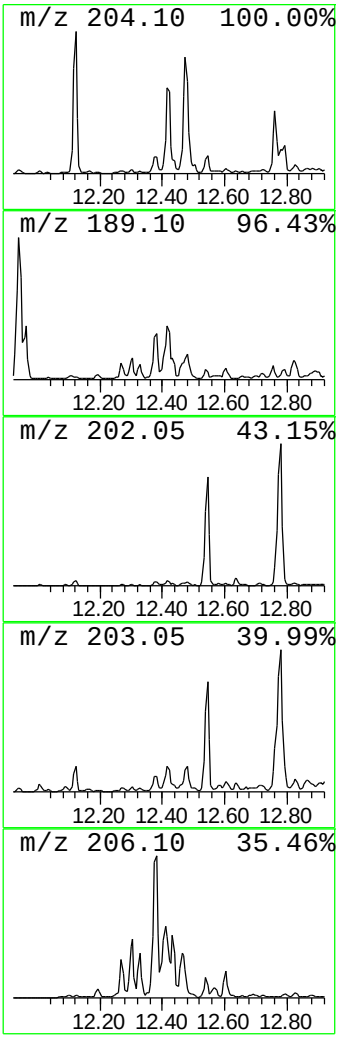
Peak Number 15 unknown12.42 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	21.69 ng	731152	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	42
2	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	41
3	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	35
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	35
5	2,3-Dimethoxy-5-aminocinnamonitrile	204	C11H12N2O2	1000214-46-5	30





Library Search Compound Report

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Misc :
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Instrument : BNA_F
ClientSampleId : CL-02-043018-B

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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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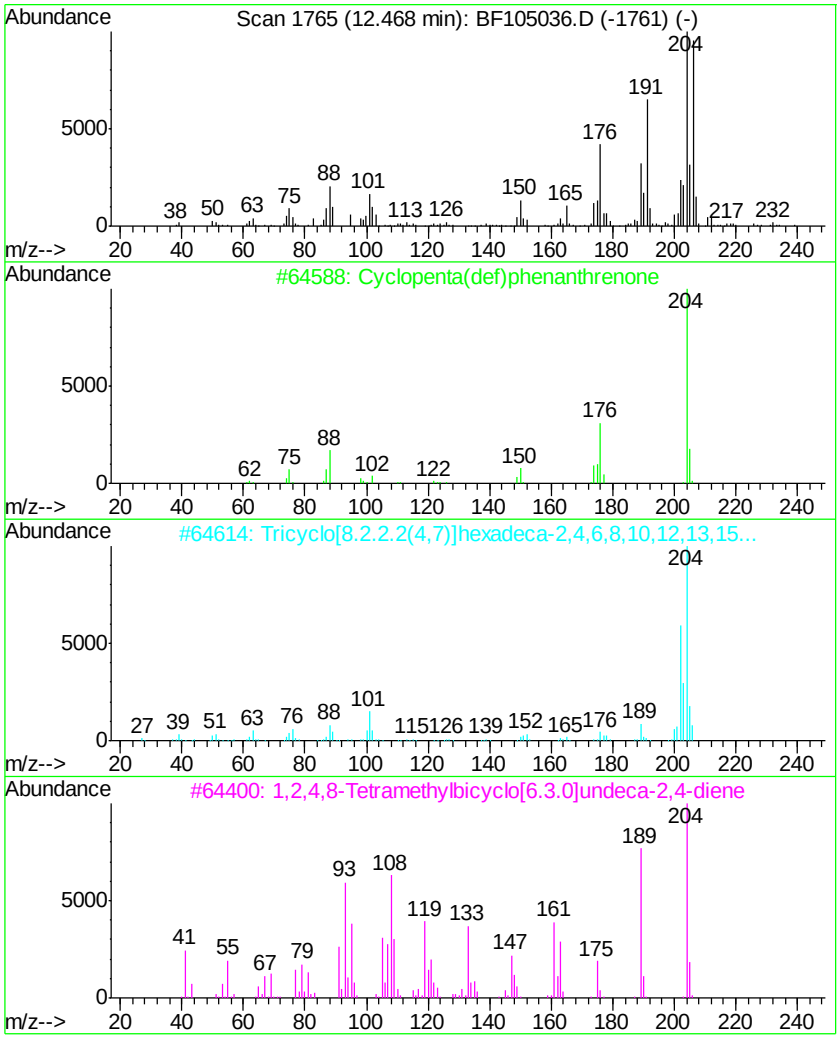
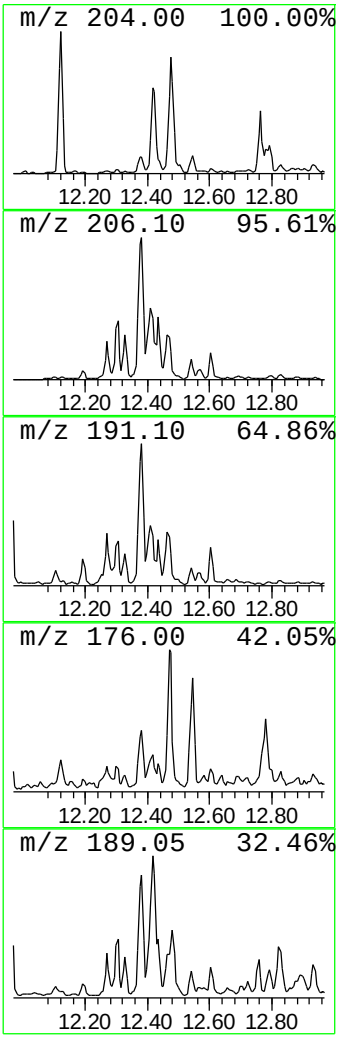
Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	22.52 ng	758898	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	92
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	55
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	55
4	Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	50
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	49





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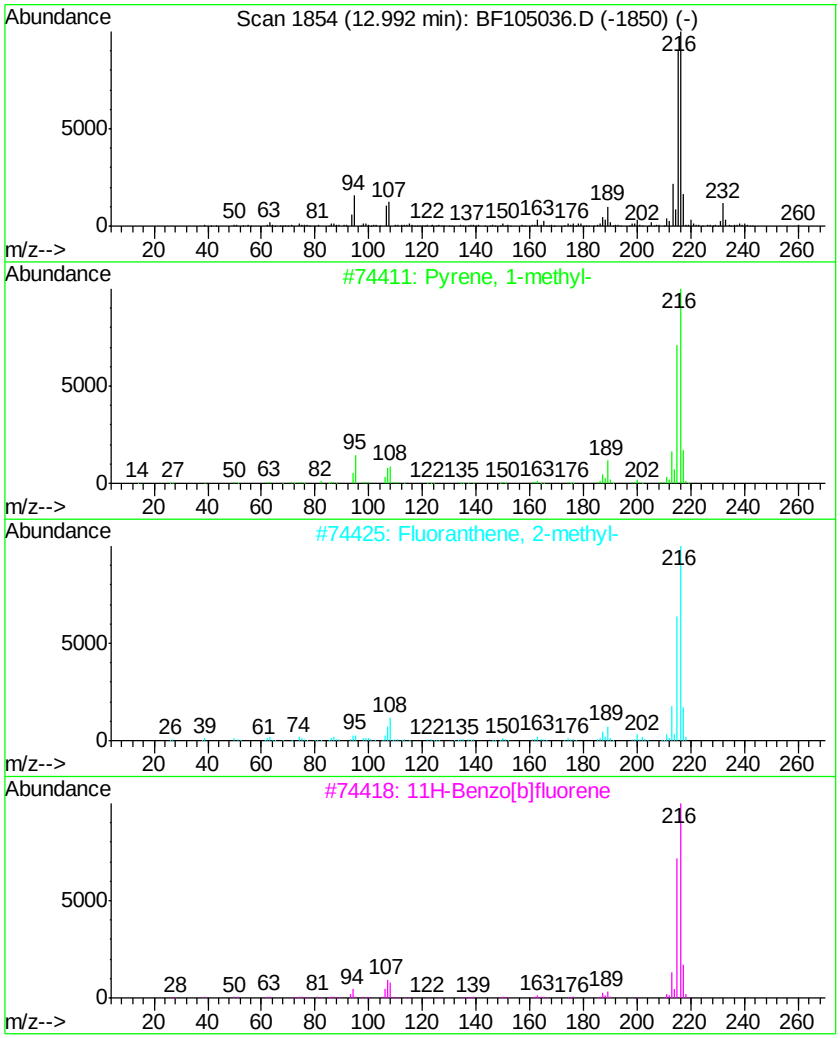
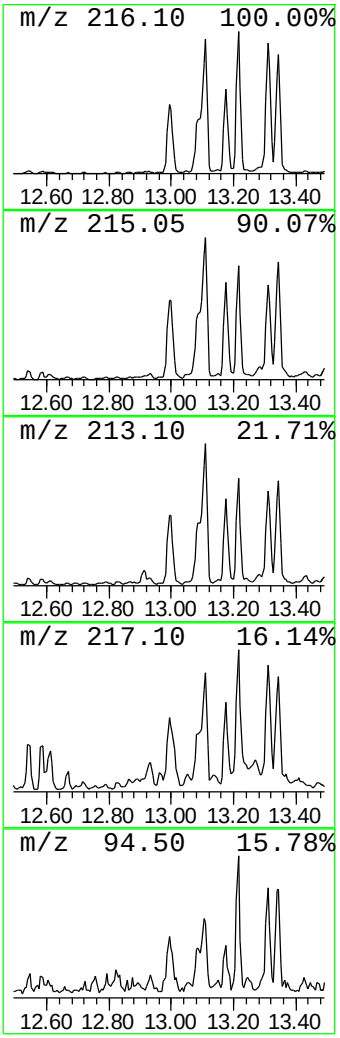
Peak Number 17 Pyrene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.99	8.20 ng	759781	Chrysene-d12	14.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	83
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81





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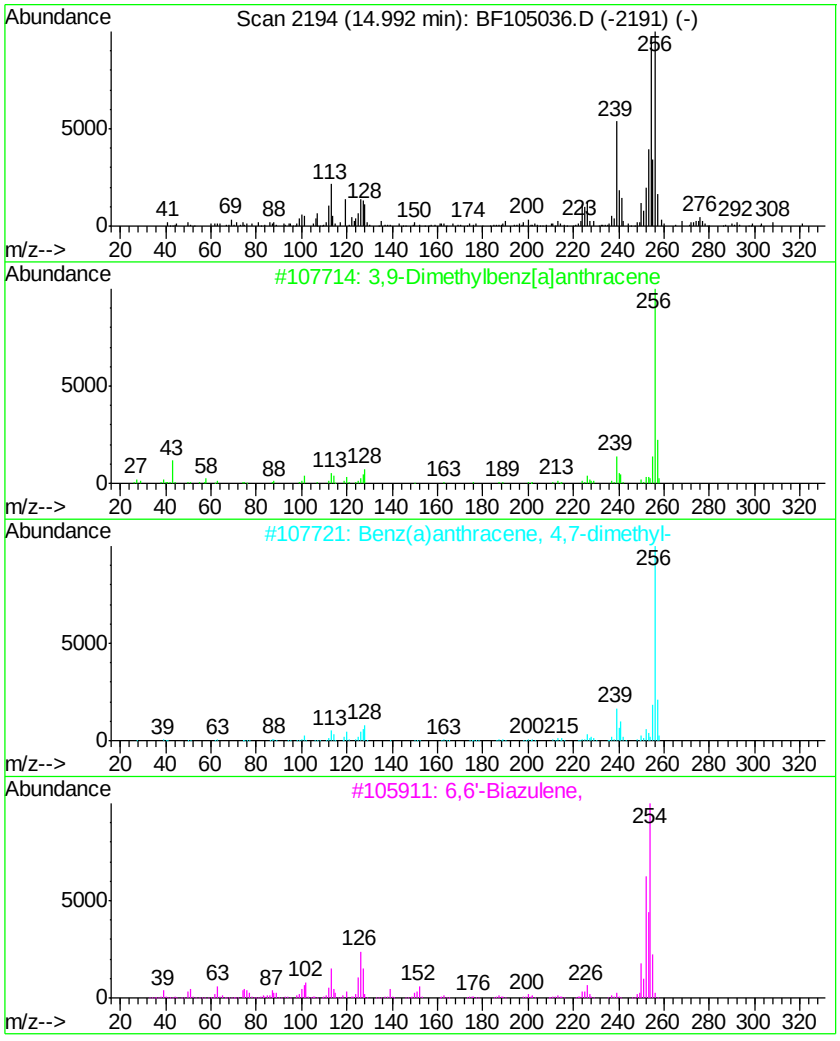
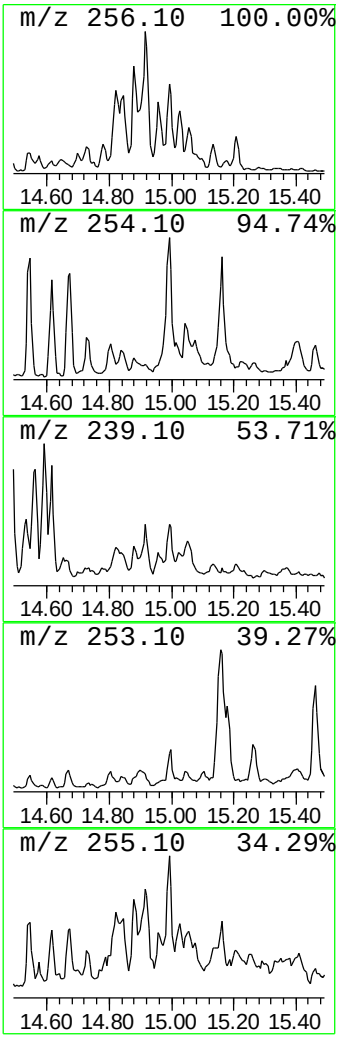
Peak Number 18 unknown14.99 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.99	12.17 ng	250998	Perylene-d12	15.59

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,9-Dimethylbenz[a]anthracene	256	C20H16	000316-51-8	45
2	Benz(a)anthracene, 4,7-dimethyl-	256	C20H16	035187-18-9	43
3	6,6'-Biazulene,	254	C20H14	073393-11-0	42
4	Cyclopropa[3,4]cyclohepta[1,2-a]...	254	C18H22O	057983-83-2	42
5	Chrysene, 5-ethyl-	256	C20H16	054986-62-8	41





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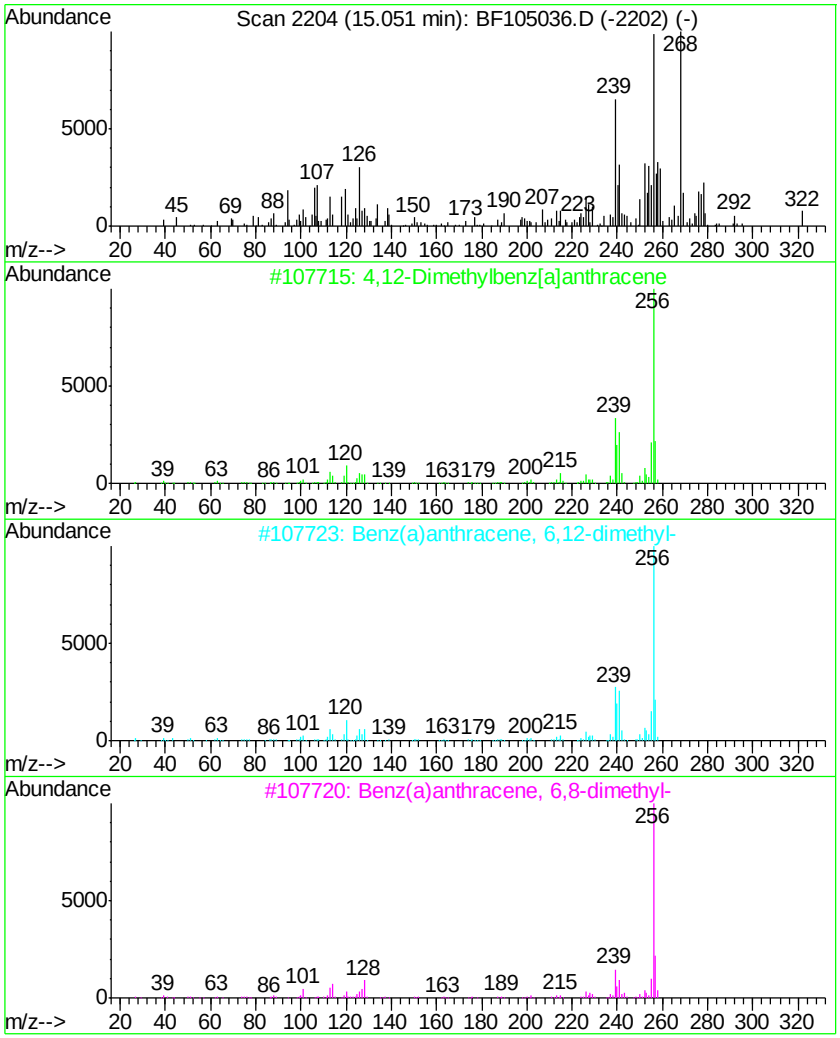
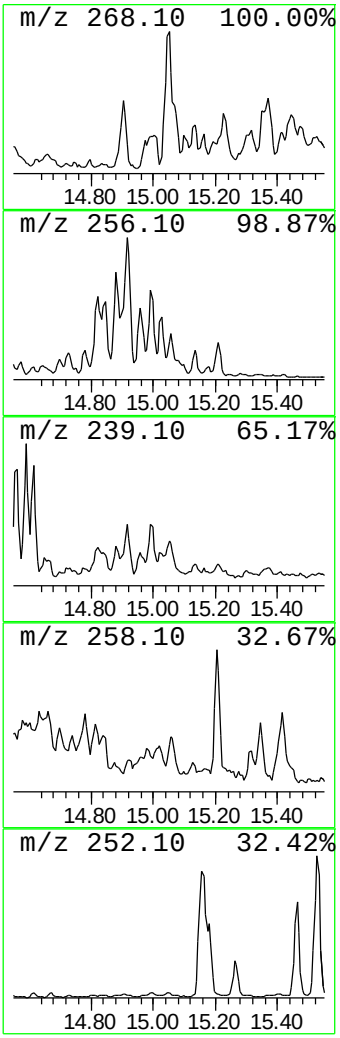
Peak Number 19 unknown15.05 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.05	8.15 ng	168006	Perylene-d12	15.59

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,12-Dimethylbenz[a]anthracene	256	C20H16	035187-19-0	42
2	Benz(a)anthracene, 6,12-dimethyl-	256	C20H16	000568-81-0	42
3	Benz(a)anthracene, 6,8-dimethyl-	256	C20H16	000317-64-6	41
4	Benz(a)anthracene, 7,8-dimethyl-	256	C20H16	000604-81-9	38
5	9,10,11,12-Tetrahydrobenzo[e]pyrene	256	C20H16	067099-81-4	38





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ALS Vial : 18 Sample Multiplier: 1

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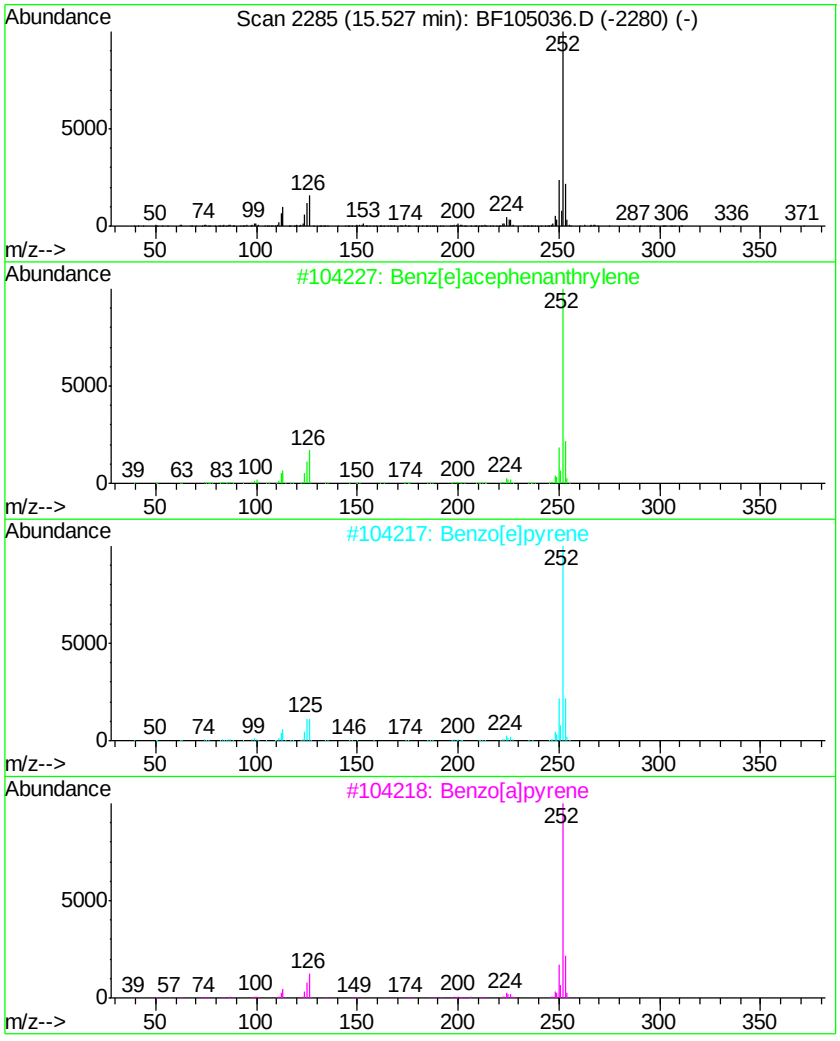
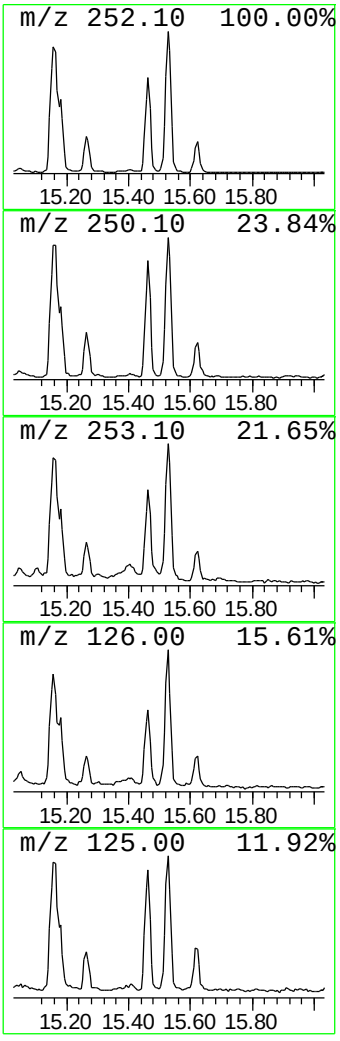
Peak Number 20 Benz[e]acephenanthrylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.53	36.89 ng	760476	Perylene-d12	15.59

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	98
2	Benzo[e]pyrene	252	C20H12	000192-97-2	98
3	Benzo[a]pyrene	252	C20H12	000050-32-8	98
4	Perylene	252	C20H12	000198-55-0	96
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050218\
Data File : BF105036.D
Acq On : 2 May 2018 17:35
Operator : JU/SJ
Sample : J2157-15 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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
unknown6.56	6.56	36.1	ng	966032	1	6.79	535415	20.0
Naphthalene, 2,3-...	9.49	11.2	ng	393567	3	9.83	702119	20.0
Naphthalene, 1,6,...	10.15	8.3	ng	292984	3	9.83	702119	20.0
9H-Fluorene, 1-me...	10.93	10.6	ng	356952	4	11.32	674040	20.0
Dibenzothiophene,...	11.65	8.3	ng	278004	4	11.32	674040	20.0
Phenanthrene, 2-m...	11.83	21.9	ng	739135	4	11.32	674040	20.0
Anthracene, 2-met...	11.86	25.4	ng	855245	4	11.32	674040	20.0
4H-Cyclopenta[def...	11.94	36.3	ng	1222550	4	11.32	674040	20.0
Naphthalene, 2-ph...	12.12	14.4	ng	484167	4	11.32	674040	20.0
Phenanthrene, 3,6...	12.30	9.1	ng	304908	4	11.32	674040	20.0
Phenanthrene, 2,5...	12.38	28.5	ng	959398	4	11.32	674040	20.0
unknown12.42	12.42	21.7	ng	731152	4	11.32	674040	20.0
Cyclopenta(def)ph...	12.47	22.5	ng	758898	4	11.32	674040	20.0
Pyrene, 1-methyl-	12.99	8.2	ng	759781	5	14.03	1854010	20.0
unknown14.99	14.99	12.2	ng	250998	6	15.59	412328	20.0
unknown15.05	15.05	8.2	ng	168006	6	15.59	412328	20.0
Benz[e]acephenant...	15.53	36.9	ng	760476	6	15.59	412328	20.0