LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
Data File : BF114690.D
Acq On : 31 May 2019 4:43
Operator : HP/JU
Sample : K3068-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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	5.310	542	548	551	rBV	5593703	6031195	40.03%	2.972%
2	6.334	717	722	729	rBV2	5569093	6550125	43.47%	3.227%
3	6.469	740	745	748	rBV	6740934	6403178	42.49%	3.155%
4	6.698	781	784	788	rBV	2463233	2034635	13.50%	1.003%
5	6.857	807	811	814	rBV	5846948	4927025	32.70%	2.428%
6	7.257	874	879	882	rBV	3973586	3546891	23.54%	1.748%
7	7.981	998	1002	1004	rBV	3065265	2560342	16.99%	1.262%
8	7.998	1004	1005	1008	rVB	854979	576947	3.83%	0.284%
9	8.686	1119	1122	1126	rBV	430484	381572	2.53%	0.188%
10	8.786	1134	1139	1144	rVB	460652	377779	2.51%	0.186%
11	9.057	1180	1185	1188	rBV	6193016	5809497	38.55%	2.862%
12	9.310	1224	1228	1234	rBV2	208472	308791	2.05%	0.152%
13	9.386	1237	1241	1244	rBV	437898	434920	2.89%	0.214%
14	9.445	1248	1251	1254	rVV	687565	511347	3.39%	0.252%
15	9.504	1258	1261	1266	rVV	243737	249656	1.66%	0.123%
16	9.586	1270	1275	1278	rBV	520182	448328	2.98%	0.221%
17	9.728	1293	1299	1302	rBV	2983354	2648099	17.57%	1.305%
18	9.757	1302	1304	1307	rVV	2263187	1684052	11.18%	0.830%
19	9.928	1330	1333	1337	rVB	1246464	1004844	6.67%	0.495%
20	10.269	1388	1391	1394	rVV	2136527	1682778	11.17%	0.829%
21	10.322	1397	1400	1401	rVV2	283797	272454	1.81%	0.134%
22	10.333	1401	1402	1404	rVV	452108	372230	2.47%	0.183%
23	10.357	1404	1406	1408	rVV	453438	371100	2.46%	0.183%
24	10.428	1415	1418	1423	rVB	574666	564490	3.75%	0.278%
25	10.510	1427	1432	1436	rVV2	3987027	3927669	26.07%	1.935%
26	10.633	1448	1453	1457	rVB4	158653	269386	1.79%	0.133%
27	10.816	1477	1484	1487	rBV3	529984	809186	5.37%	0.399%
28	10.845	1487	1489	1492	rVV2	391357	353843	2.35%	0.174%
29	10.898	1495	1498	1501	rVB2	285422	304073	2.02%	0.150%
30	10.969	1507	1510	1514	rVV2	373682	444426	2.95%	0.219%
31	11.004	1514	1516	1522	rVB	910359	867116	5.75%	0.427%
32	11.063	1522	1526	1529	rBV2	518356	656394	4.36%	0.323%
33	11.098	1529	1532	1535	rVB	1189562	917820	6.09%	0.452%
34	11.204	1546	1550	1551	rBV	2373508	2188494	14.52%	1.078%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
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Sample : K3068-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.233	1551	1555	1558	rVV	10246623	12656781	84.00%	6.236%
36	11.280	1558	1563	1566	rVV	4730132	4003452	26.57%	1.973%
37	11.310	1566	1568	1572	rVB2	375410	388874	2.58%	0.192%
38	11.427	1582	1588	1591	rBV2	1900178	1936143	12.85%	0.954%
39	11.498	1598	1600	1602	rBV	413582	317065	2.10%	0.156%
40	11.533	1602	1606	1609	rVB3	676446	595253	3.95%	0.293%
41	11.616	1617	1620	1623	rVB	372295	363526	2.41%	0.179%
42	11.704	1629	1635	1637	rBV	3040935	2750080	18.25%	1.355%
43	11.733	1637	1640	1644	rVV	3943526	3608131	23.95%	1.778%
44	11.780	1644	1648	1650	rVV	1347184	1282900	8.51%	0.632%
45	11.816	1650	1654	1656	rVV	4227366	4470949	29.67%	2.203%
46	11.839	1656	1658	1661	rVB	2218993	1716022	11.39%	0.846%
47	11.998	1682	1685	1687	rBV	1923790	1696104	11.26%	0.836%
48	12.022	1687	1689	1692	rVB2	1518077	1245570	8.27%	0.614%
49	12.075	1695	1698	1701	rBV	390409	367510	2.44%	0.181%
50	12.145	1705	1710	1713	rBV	940931	1090683	7.24%	0.537%
51	12.174	1713	1715	1717	rBV	486763	402404	2.67%	0.198%
52	12.198	1717	1719	1722	rVB2	532558	451439	3.00%	0.222%
53	12.251	1724	1728	1731	rBV	1635012	1770706	11.75%	0.872%
54	12.286	1731	1734	1737	rVV	855961	1003831	6.66%	0.495%
55	12.333	1740	1742	1748	rVB3	1112284	1434754	9.52%	0.707%
56	12.422	1751	1757	1760	rBV	10260289	12367923	82.08%	6.094%
57	12.463	1760	1764	1769	rBV3	431959	714112	4.74%	0.352%
58	12.557	1773	1780	1782	rBV3	747496	1343531	8.92%	0.662%
59	12.651	1789	1796	1800	rBV4	9514824	15068227	100.00%	7.424%
60	12.686	1800	1802	1808	rVB2	766496	1003415	6.66%	0.494%
61	12.757	1811	1814	1816	rBV	924611	819121	5.44%	0.404%
62	12.786	1816	1819	1825	rVB2	5767356	5470175	36.30%	2.695%
63	12.857	1825	1831	1834	rBV2	1411732	2171098	14.41%	1.070%
64	12.916	1838	1841	1843	rBV3	260366	303456	2.01%	0.150%
65	12.939	1843	1845	1847	rVV	937040	1053877	6.99%	0.519%
66	12.963	1847	1849	1852	rVB	2256264	2029959	13.47%	1.000%
67	12.998	1852	1855	1857	rBV2	238138	291013	1.93%	0.143%
68	13.033	1857	1861	1863	rBV	1354642	1282053	8.51%	0.632%
69	13.069	1863	1867	1869	rBV	1971324	1884834	12.51%	0.929%
70	13.092	1869	1871	1874	rVB	571388	551826	3.66%	0.272%
71	13.121	1874	1876	1879	rBV	331225	335016	2.22%	0.165%

LSC Area Percent Report

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Acq On : 31 May 2019 4:43
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Sample : K3068-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

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
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Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.157	1879	1882	1885	rVB	1175662	948704	6.30%	0.467%
73	13.186	1885	1887	1891	rBV	1278679	1177792	7.82%	0.580%
74	13.263	1897	1900	1902	rBV2	429898	409432	2.72%	0.202%
75	13.363	1910	1917	1919	rBV5	428807	946151	6.28%	0.466%
76	13.410	1923	1925	1928	rVV2	281888	268294	1.78%	0.132%
77	13.463	1931	1934	1940	rVB	1252907	1491491	9.90%	0.735%
78	13.574	1949	1953	1956	rBV2	1272855	1639983	10.88%	0.808%
79	13.604	1956	1958	1960	rVV	1204386	1016189	6.74%	0.501%
80	13.627	1960	1962	1967	rVB2	725314	826329	5.48%	0.407%
81	13.669	1967	1969	1971	rBV	833265	738056	4.90%	0.364%
82	13.821	1989	1995	1998	rBV3	6176957	8681243	57.61%	4.277%
83	13.857	1998	2001	2006	rVB	5374744	6004491	39.85%	2.959%
84	13.933	2009	2014	2017	rBV2	1176030	1239837	8.23%	0.611%
85	14.010	2025	2027	2030	rVB3	644025	572281	3.80%	0.282%
86	14.045	2030	2033	2037	rBV2	555568	630448	4.18%	0.311%
87	14.174	2053	2055	2057	rBV	427181	405946	2.69%	0.200%
88	14.216	2058	2062	2064	rVV	1229818	1411830	9.37%	0.696%
89	14.245	2064	2067	2070	rVB	799362	739164	4.91%	0.364%
90	14.357	2084	2086	2089	rVB3	627108	561218	3.72%	0.277%
91	14.504	2109	2111	2114	rBV3	357294	427186	2.84%	0.210%
92	14.616	2128	2130	2135	rVB2	613262	576198	3.82%	0.284%
93	14.833	2162	2167	2176	rBV	3462780	7278153	48.30%	3.586%
94	14.927	2180	2183	2186	rVB	1210956	1171099	7.77%	0.577%
95	15.110	2210	2214	2219	rVB	2210178	2794221	18.54%	1.377%
96	15.168	2220	2224	2229	rVB	3478788	3868323	25.67%	1.906%
97	15.221	2229	2233	2235	rBV	1142330	1345222	8.93%	0.663%
98	15.251	2235	2238	2240	rVB	741813	648594	4.30%	0.320%
99	16.557	2455	2460	2467	rVB2	1418142	2644532	17.55%	1.303%
100	16.951	2524	2527	2537	rVB	1017594	1758454	11.67%	0.866%

Sum of corrected areas: 202953356

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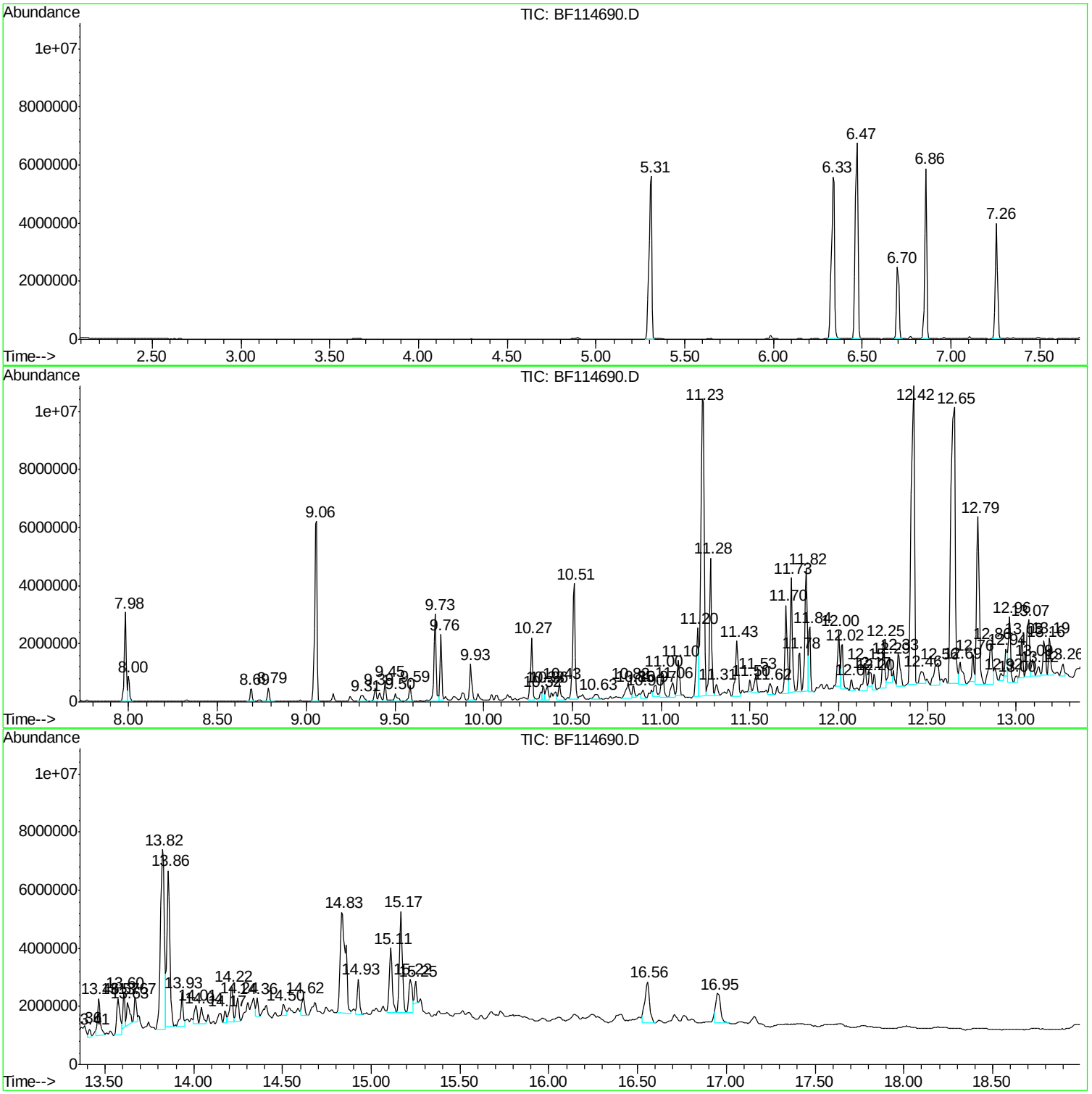
Sample : K3068-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
Data File : BF114690.D
Acq On : 31 May 2019 4:43
Operator : HP/JU
Sample : K3068-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

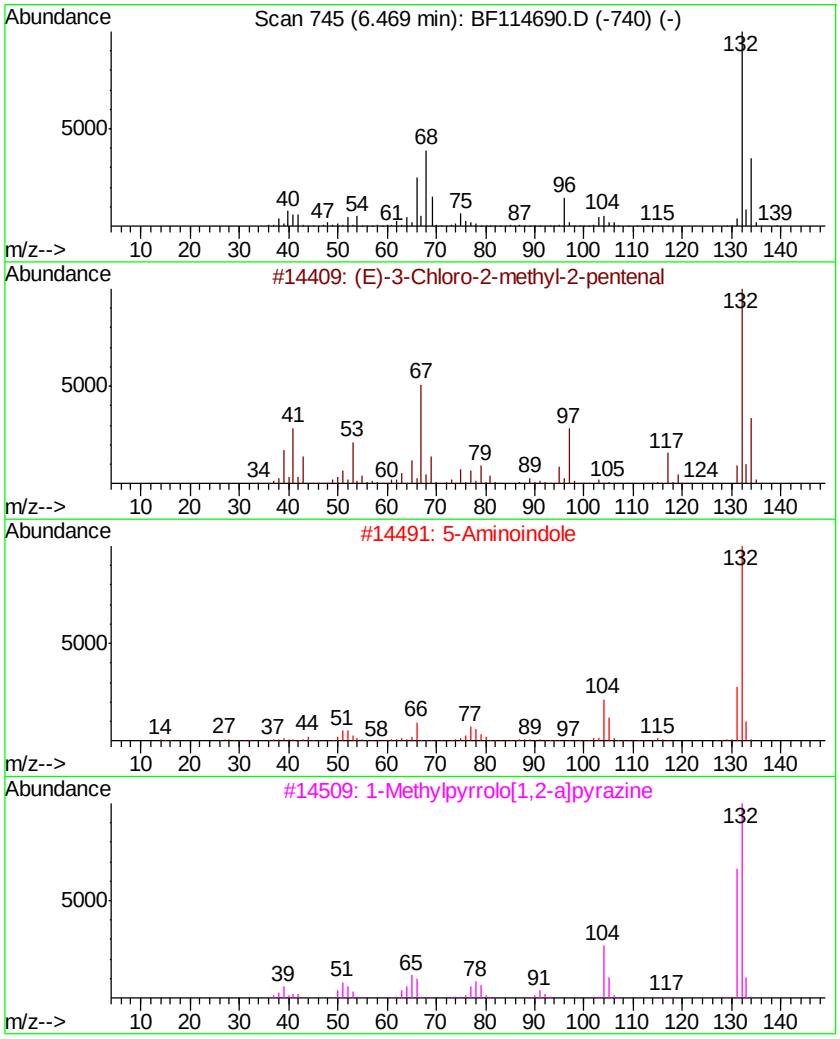
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

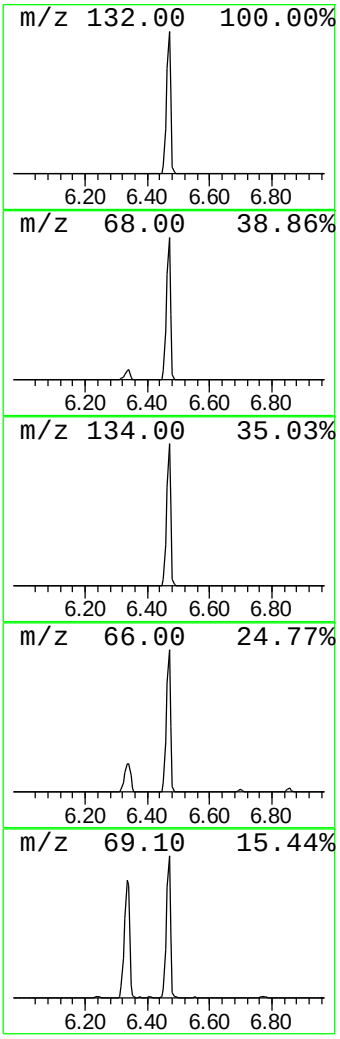
****

Peak Number 1 unknown6.47 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.47	62.94 ng	6403180	1,4-Dichlorobenzene-d4	6.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
2	5-Aminoindole	132	C8H8N2	005192-03-0	12
3	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9
4	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
5	Xenon	132	Xe	007440-63-3	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
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Misc :
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Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

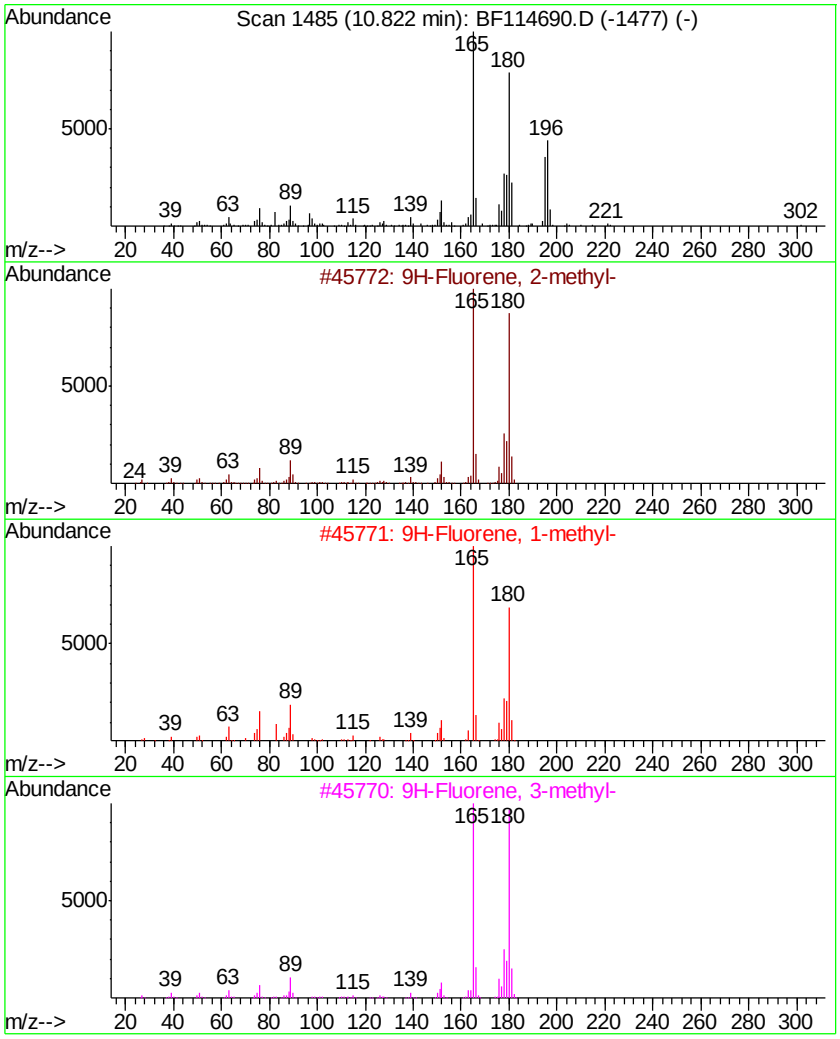
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

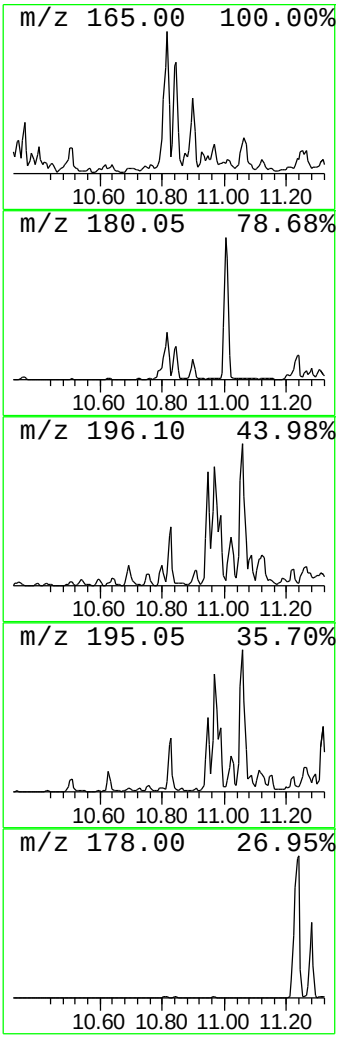
****

Peak Number 3 9H-Fluorene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.82	7.39 ng	809186	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	95
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	94
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	89





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Operator : HP/JU
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Misc :
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Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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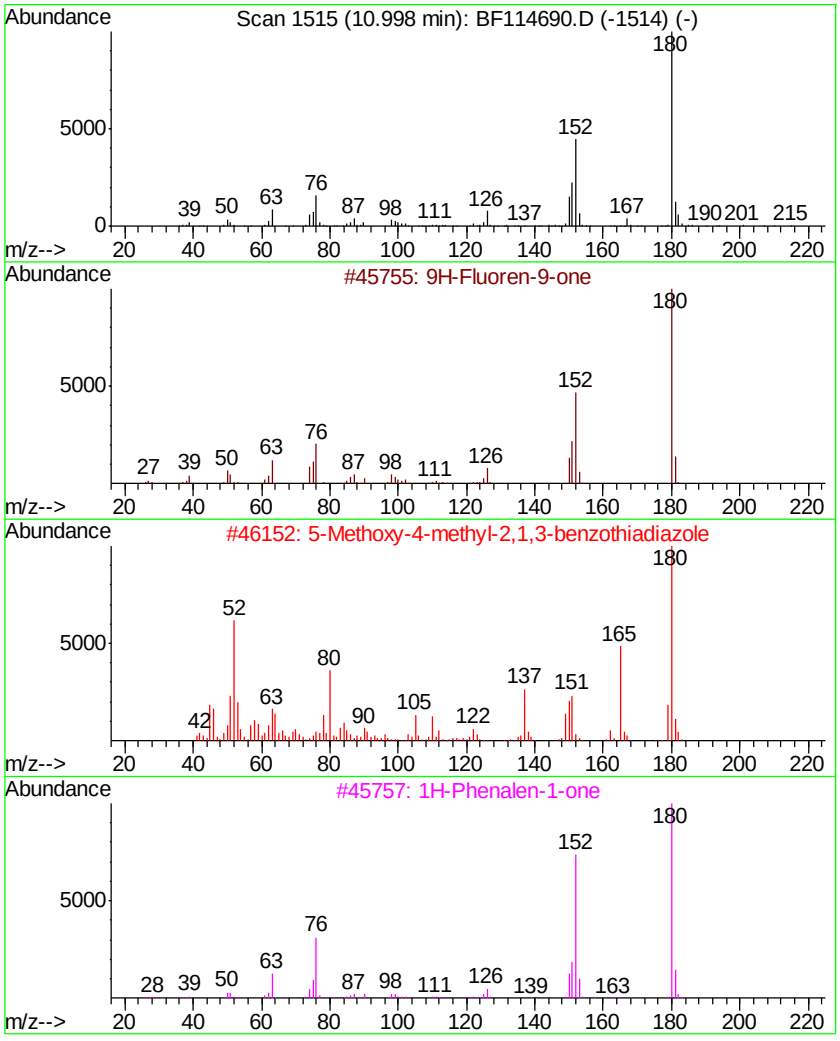
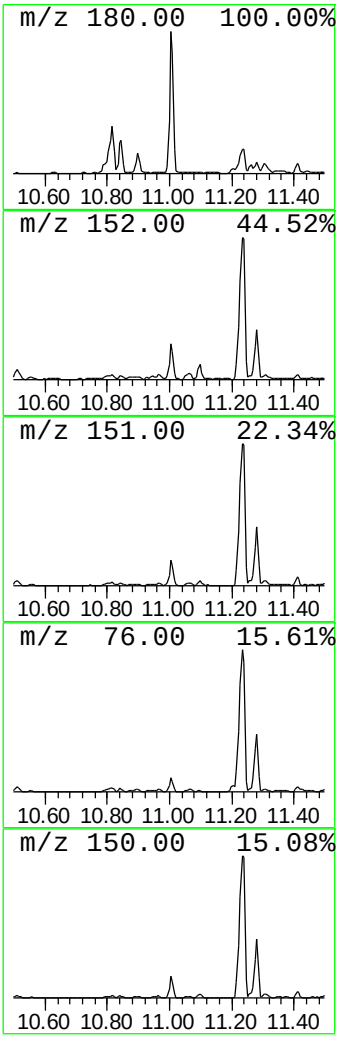
Peak Number 4 9H-Fluoren-9-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.00	7.92 ng	867116	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2	5-Methoxy-4-methyl-2,1,3-benzoth...	180	C8H8N2OS	089976-68-1	50
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	47
4	Phenazine	180	C12H8N2	000092-82-0	47
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	43





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Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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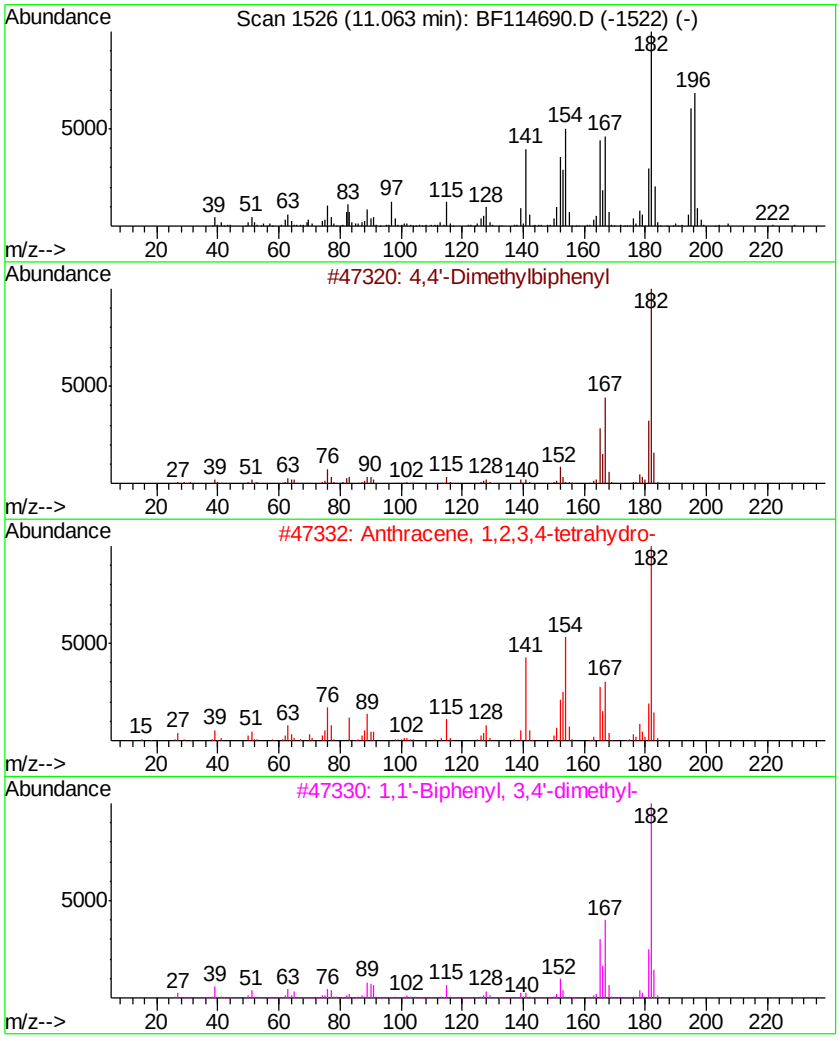
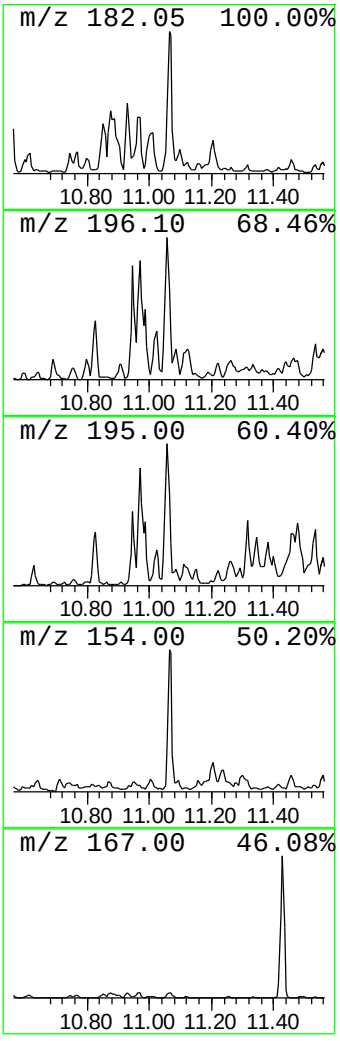
Peak Number 5 4,4'-Dimethylbiphenyl Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.06	6.00 ng	656394	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	86
2	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	83
3	1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	64
4	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	43
5	Bicyclo[3.2.1]octane-6-carboxyli...	182	C10H14O3	1000362-16-3	42





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
Data File : BF114690.D
Acq On : 31 May 2019 4:43
Operator : HP/JU
Sample : K3068-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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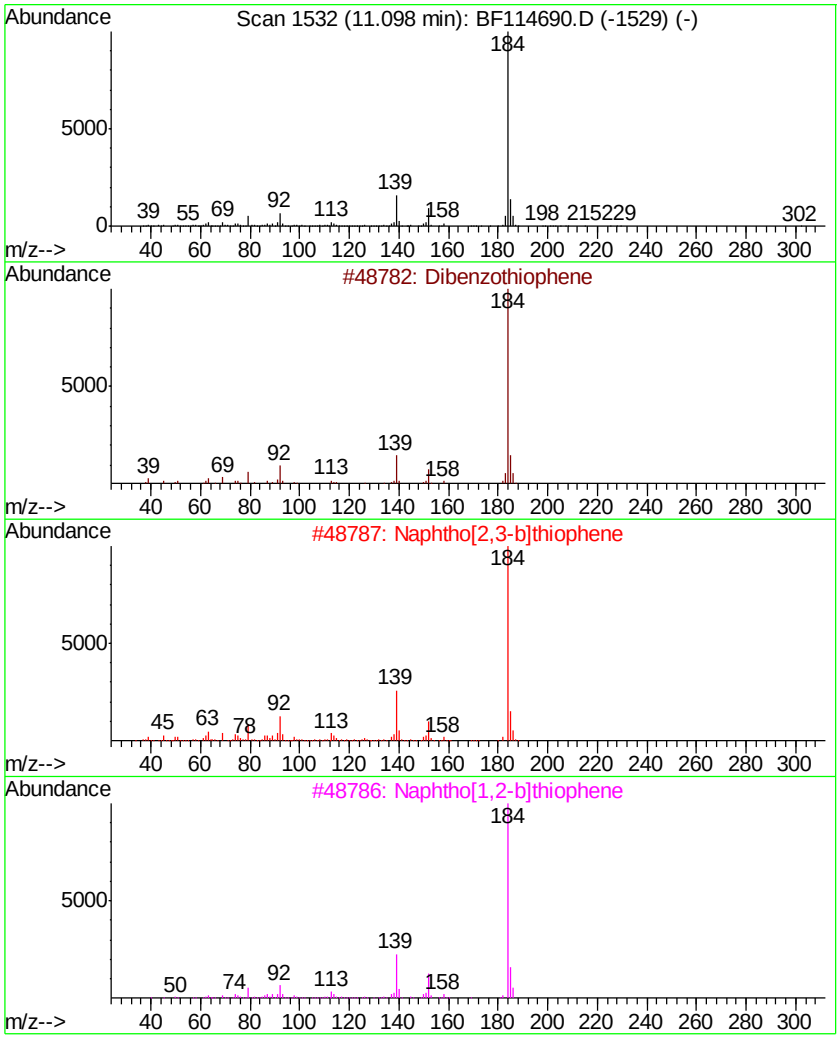
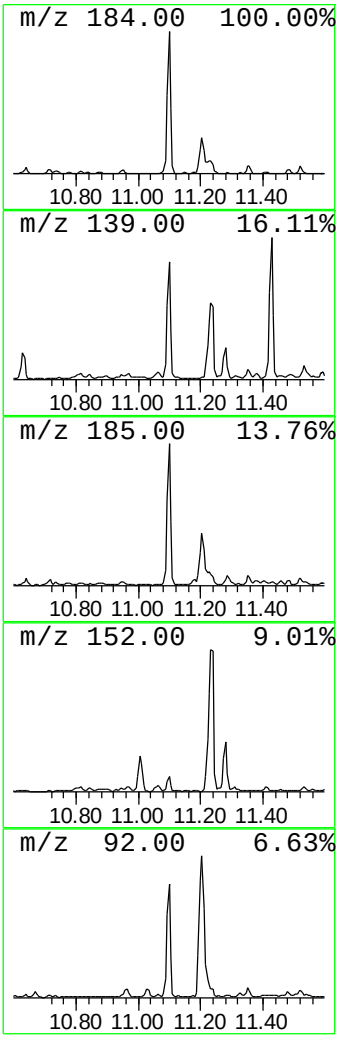
Peak Number 6 Dibenzothiophene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.10	8.39 ng	917820	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72





Library Search Compound Report

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Acq On : 31 May 2019 4:43
Operator : HP/JU
Sample : K3068-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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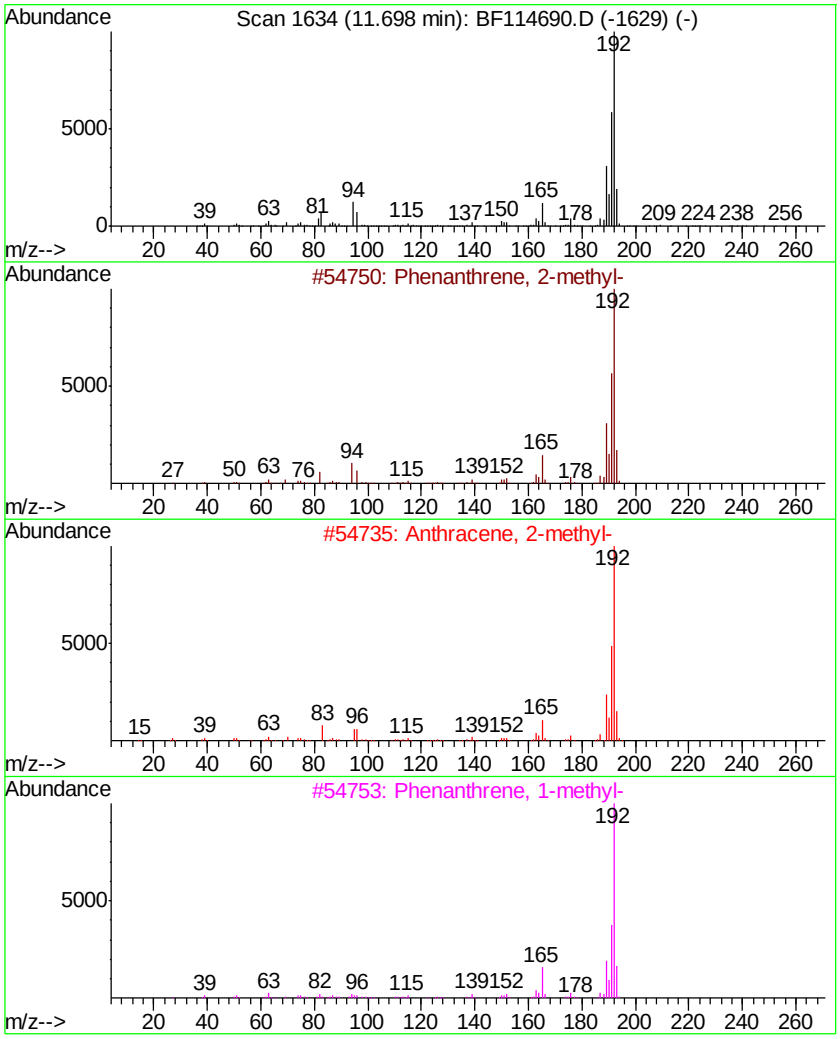
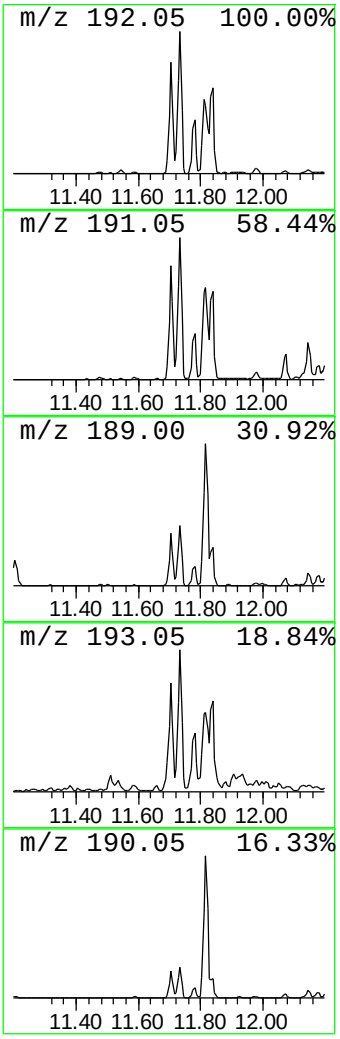
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.70	25.13 ng	2750080	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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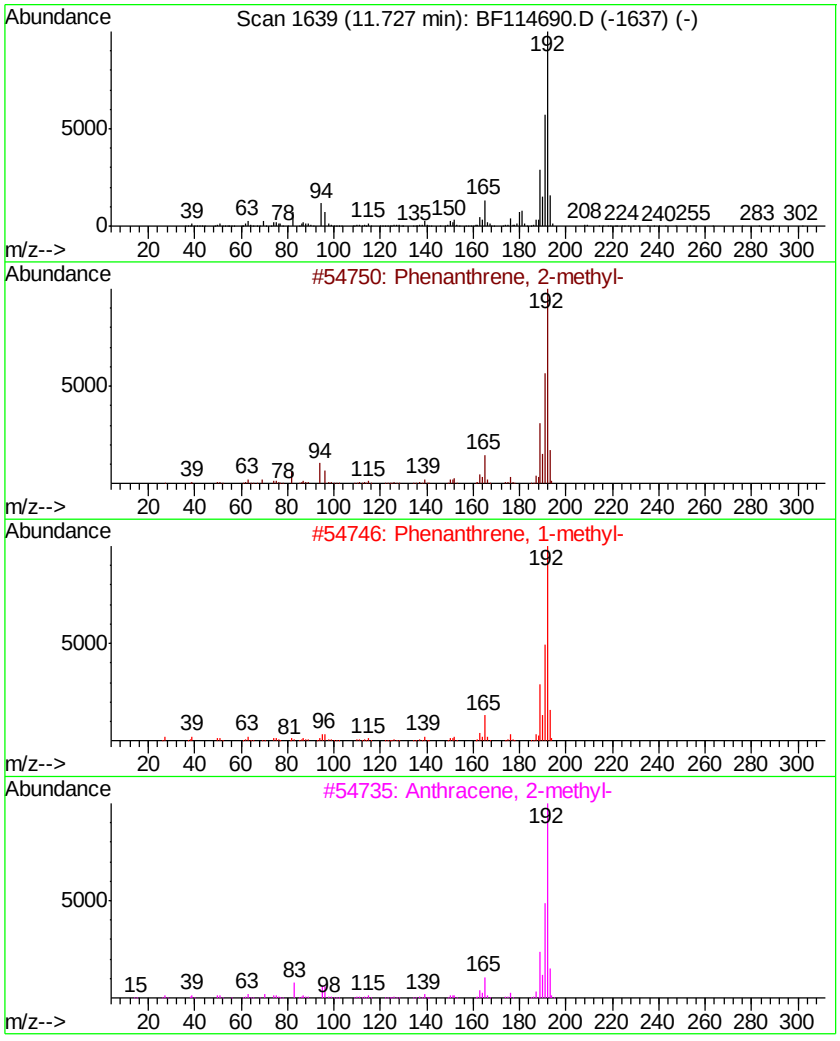
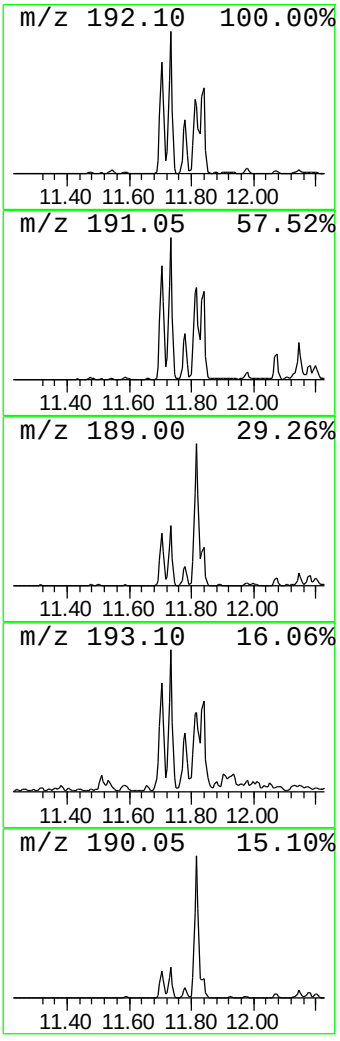
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.73	32.97 ng	3608130	Phenanthrene-d10	11.20

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	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94





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Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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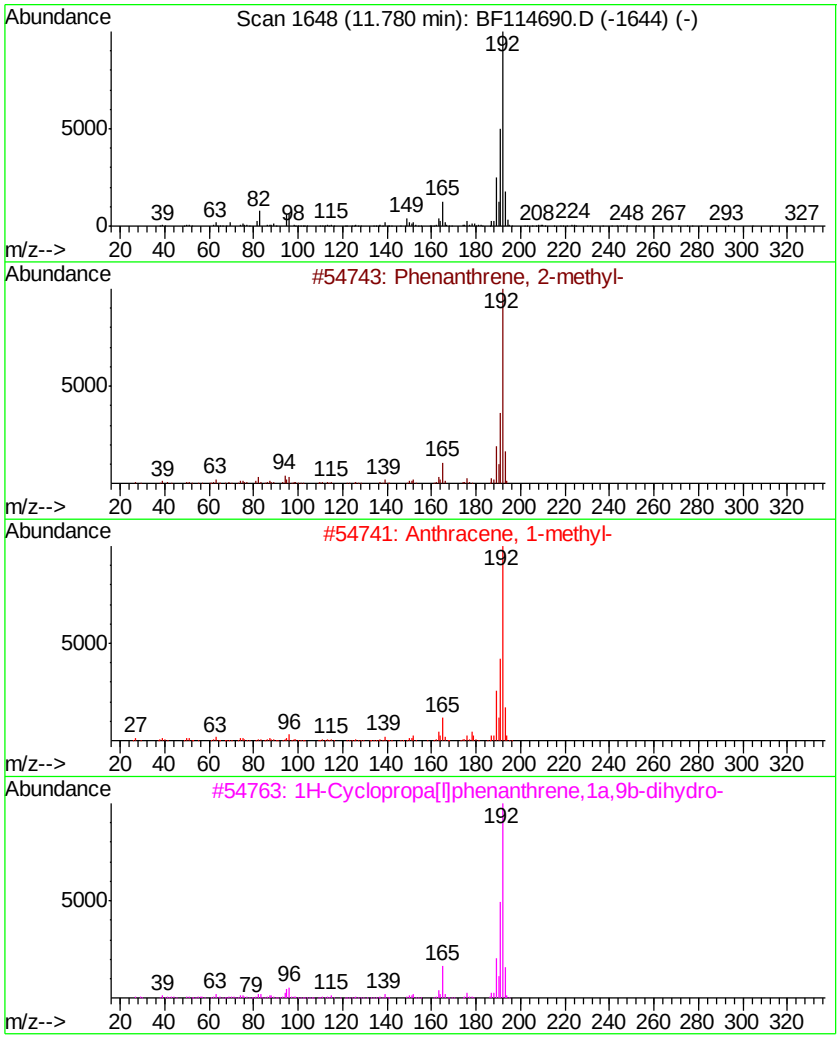
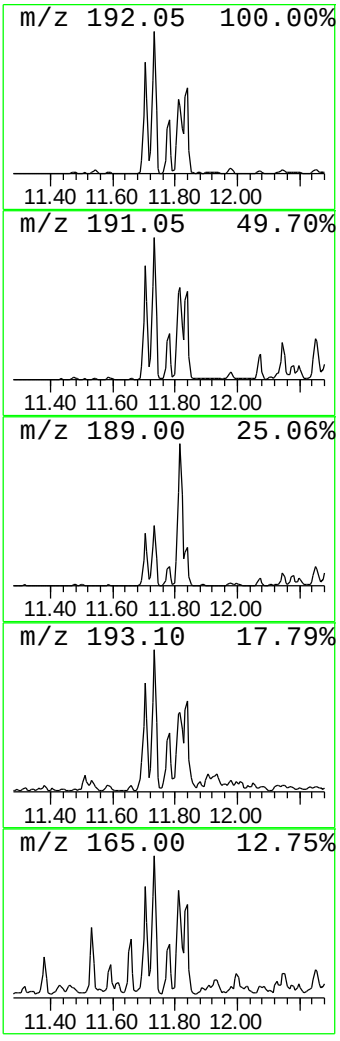
Peak Number 9 Anthracene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.78	11.72 ng	1282900	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96





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Sample : K3068-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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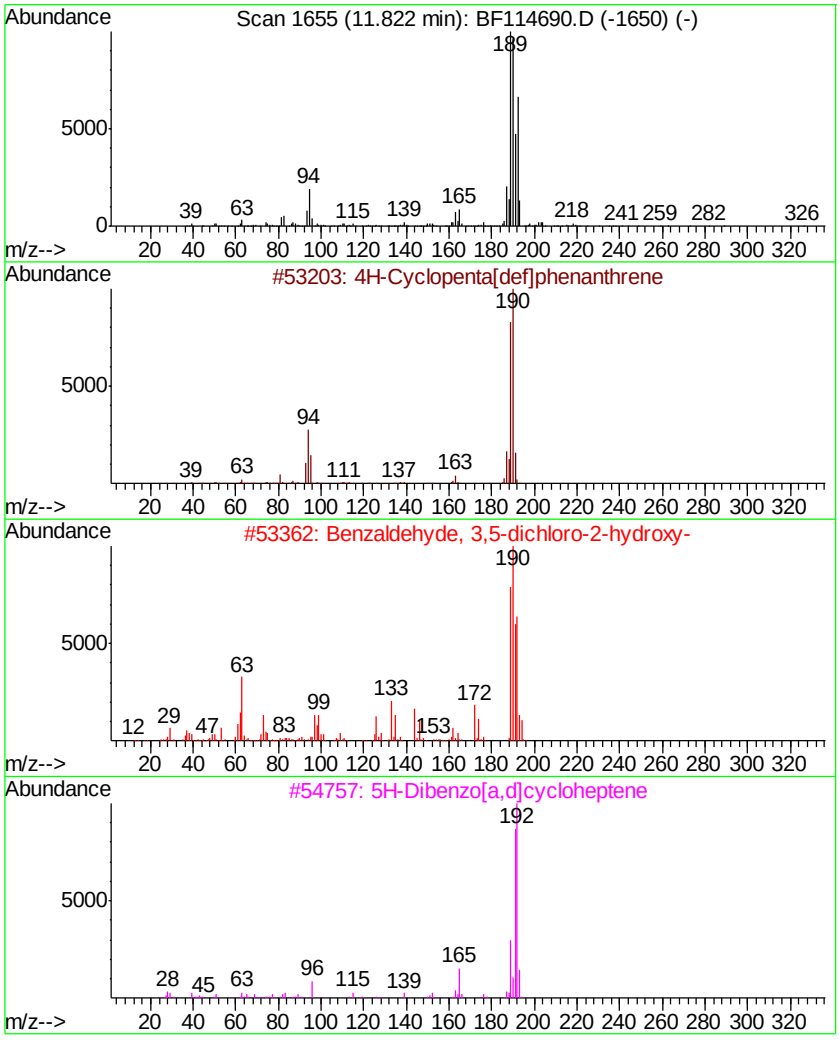
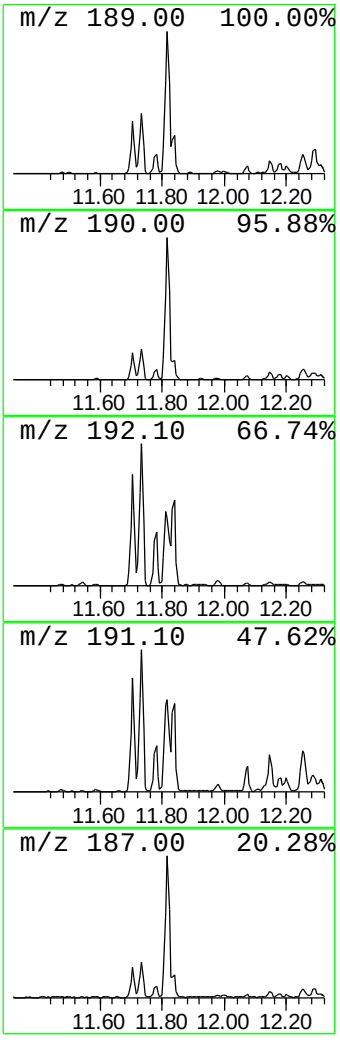
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	40.86 ng	4470950	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	72
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	30
4	2,6-Dichlorobenzaldoxime	189	C7H5Cl2NO	025185-95-9	30
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	30





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Sample : K3068-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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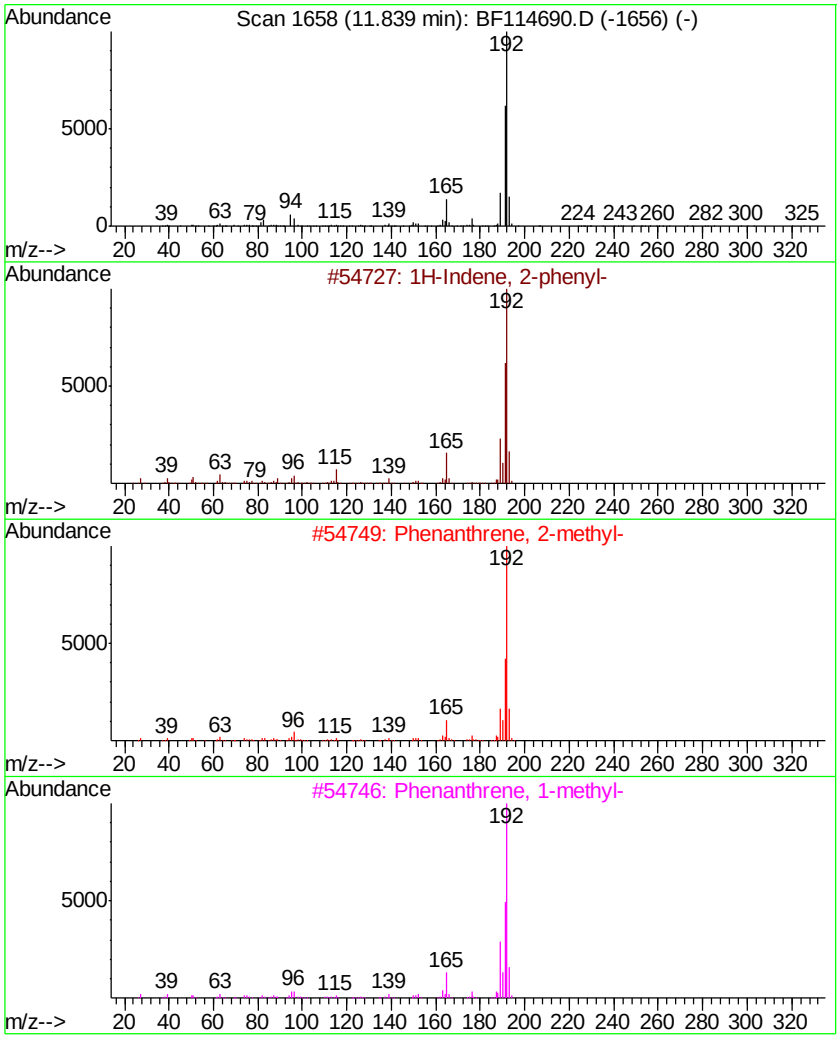
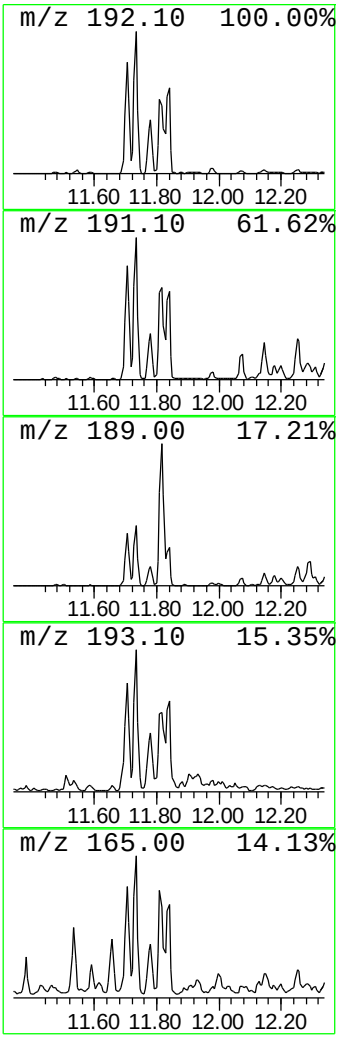
Peak Number 11 1H-Indene, 2-phenyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.84	15.68 ng	1716020	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90





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Operator : HP/JU
Sample : K3068-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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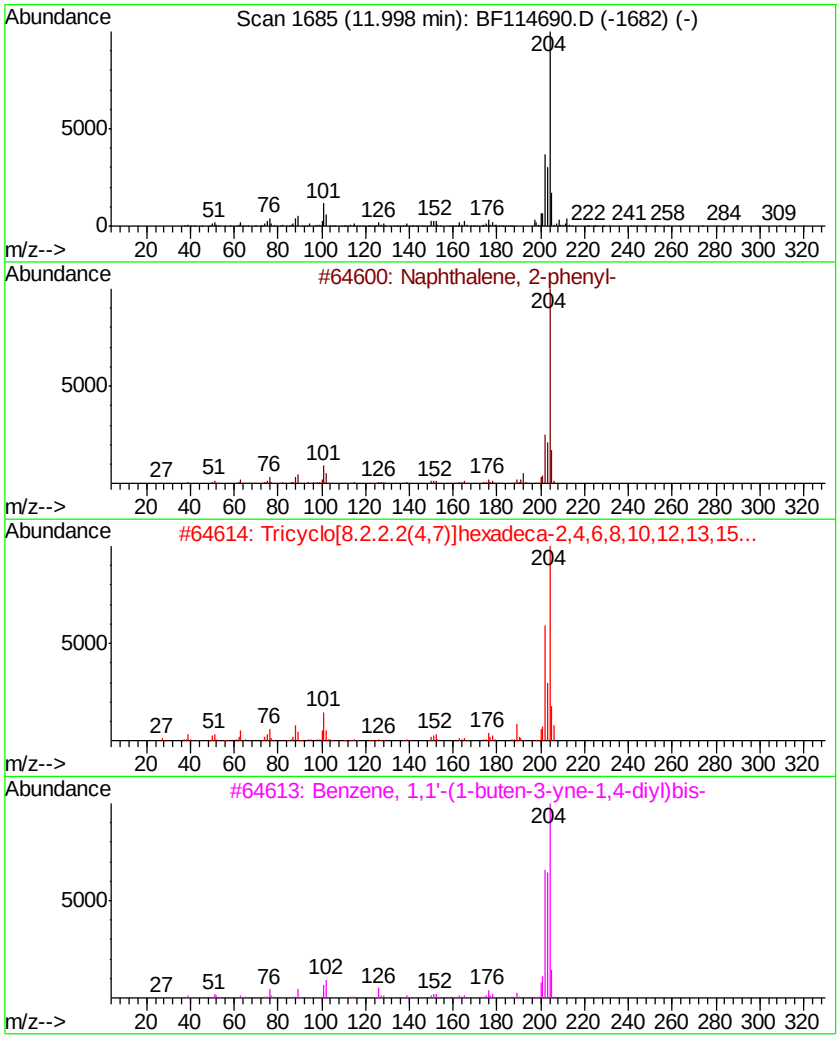
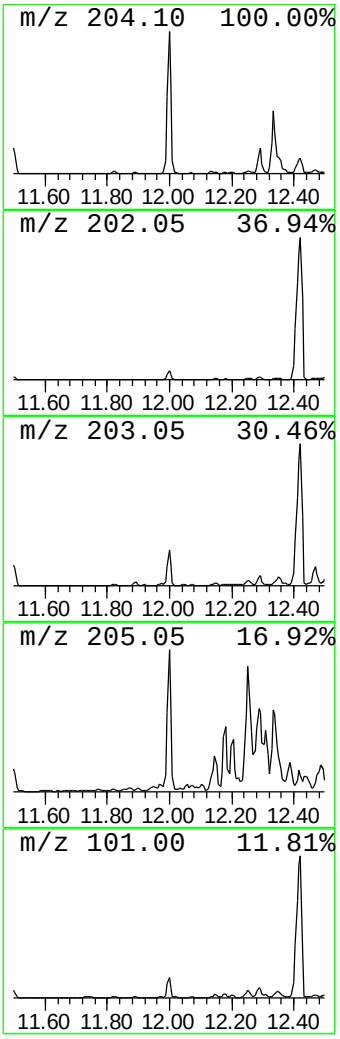
Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	15.50 ng	1696100	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
3	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	58
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	53
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50





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Operator : HP/JU
Sample : K3068-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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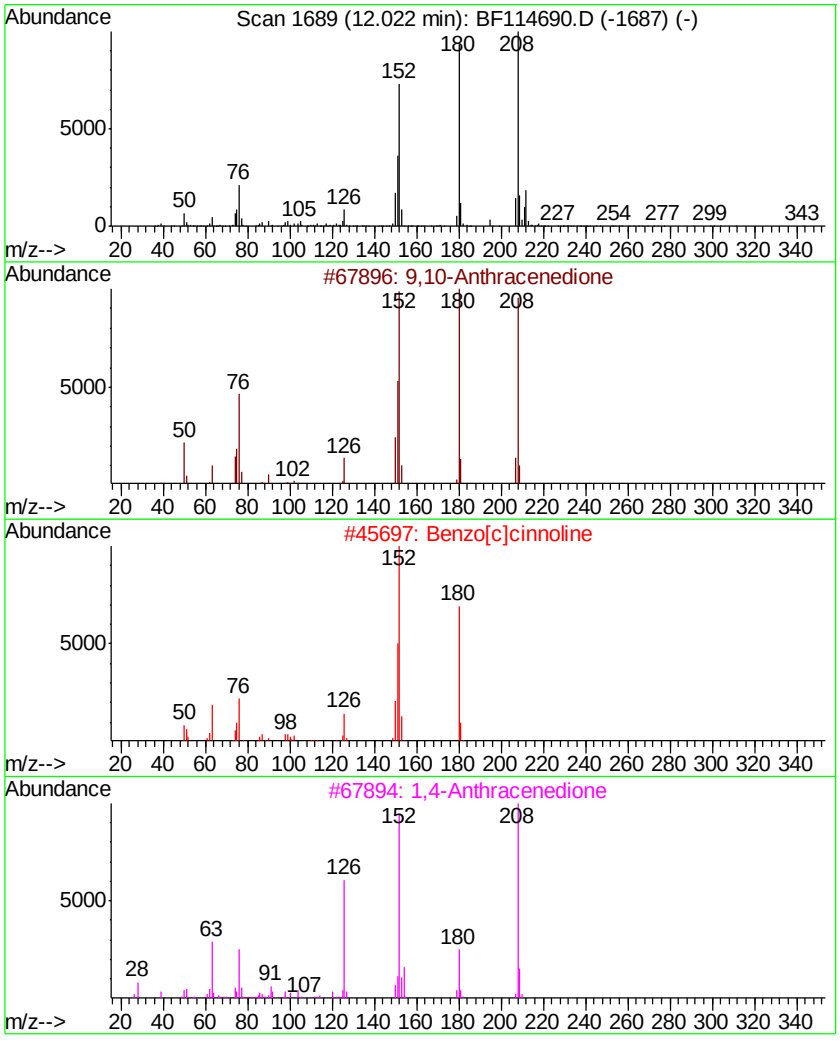
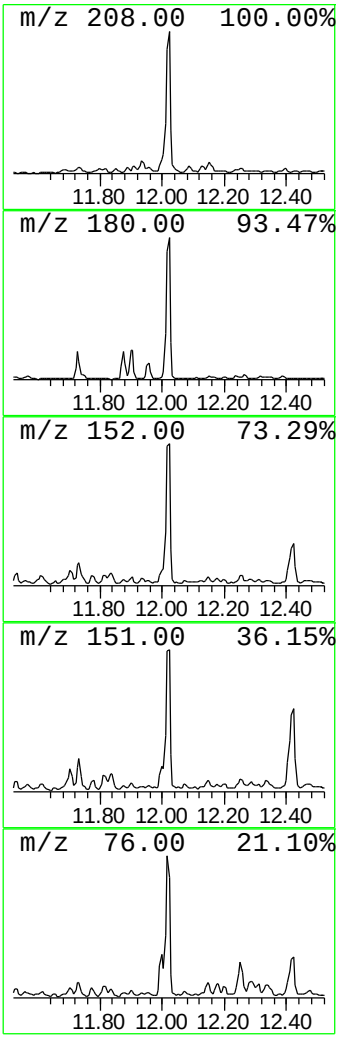
Peak Number 13 9,10-Anthracenedione Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	11.38 ng	1245570	Phenanthrene-d10	11.20

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	55
3	1,4-Anthracenedione	208	C14H8O2	000635-12-1	52
4	Carbazole-9-ethanol	211	C14H13NO	001484-14-6	47
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	46





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Misc :
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Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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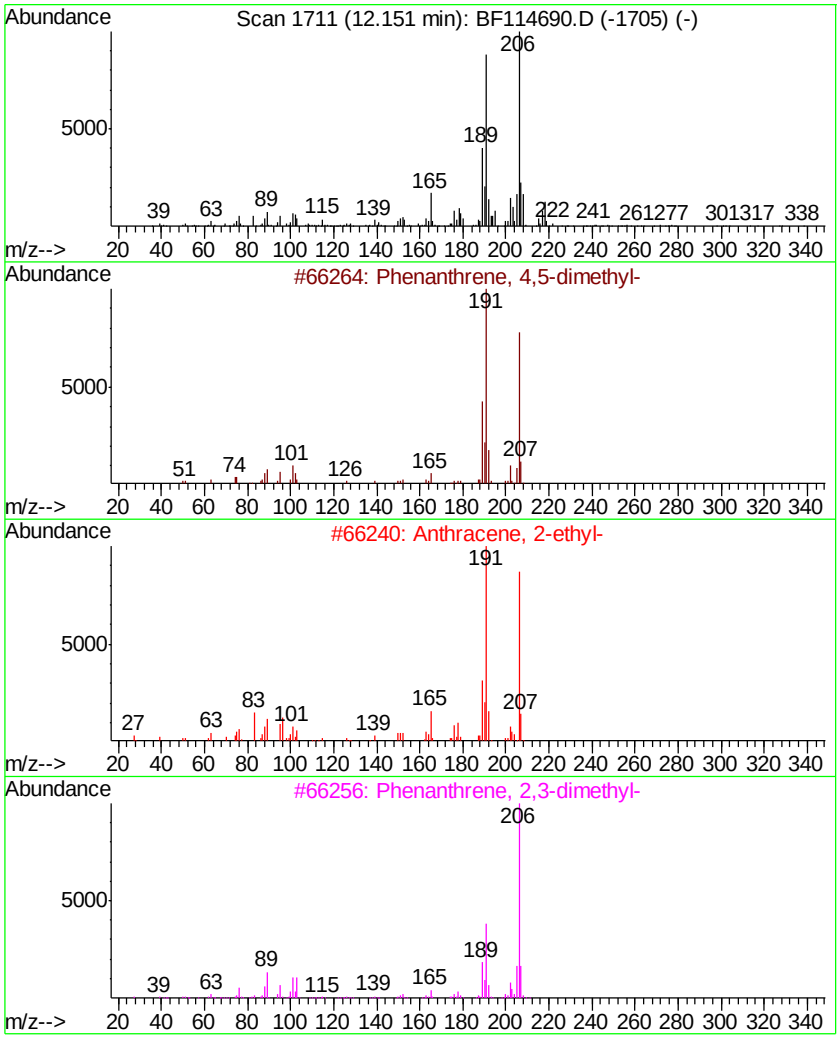
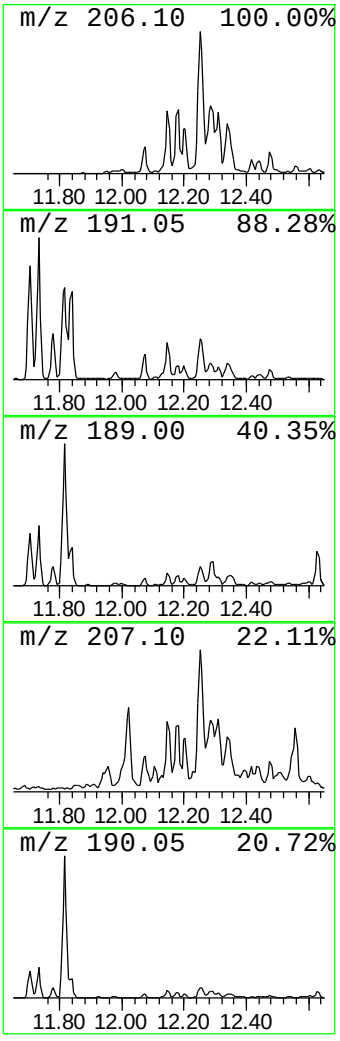
Peak Number 14 Phenanthrene, 4,5-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	9.97 ng	1090680	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	97
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	87





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Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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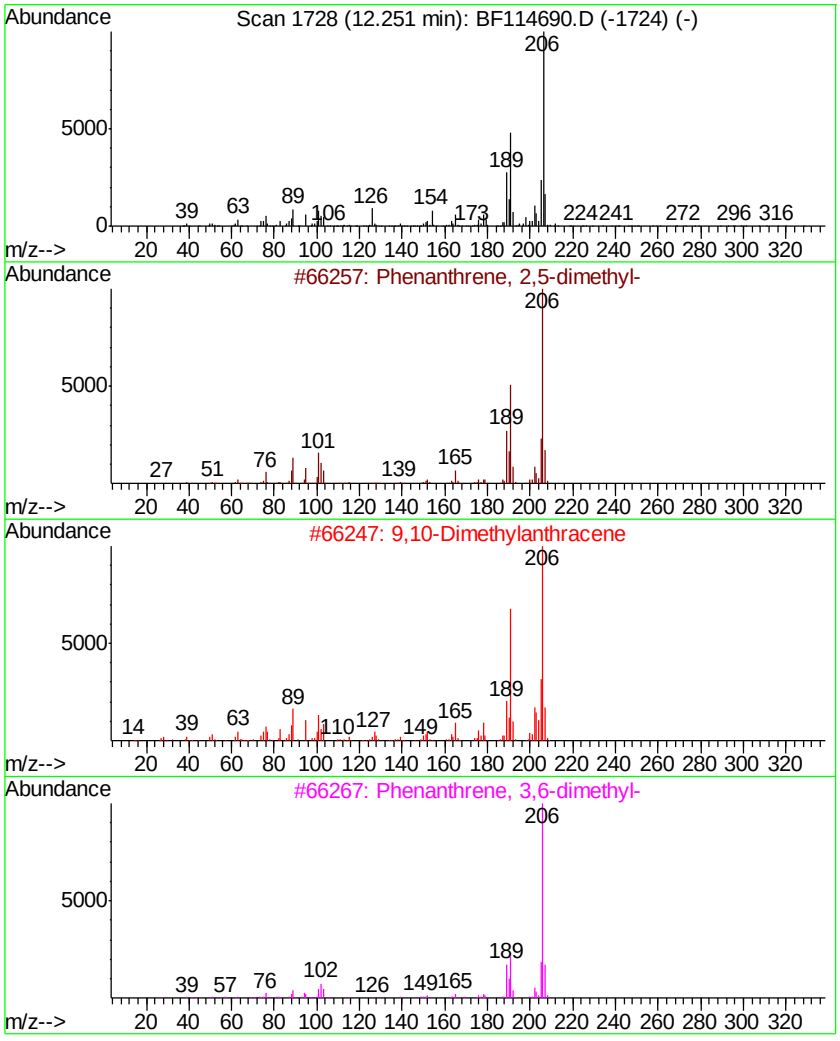
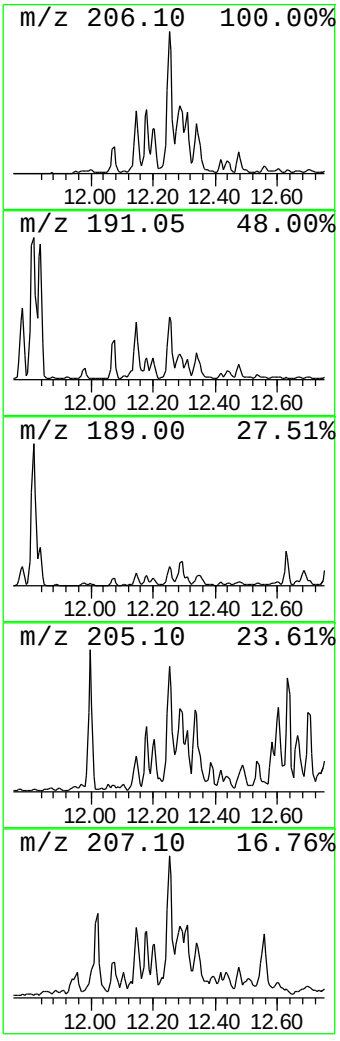
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	16.18 ng	1770710	Phenanthrene-d10	11.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	89
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	86
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	83





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Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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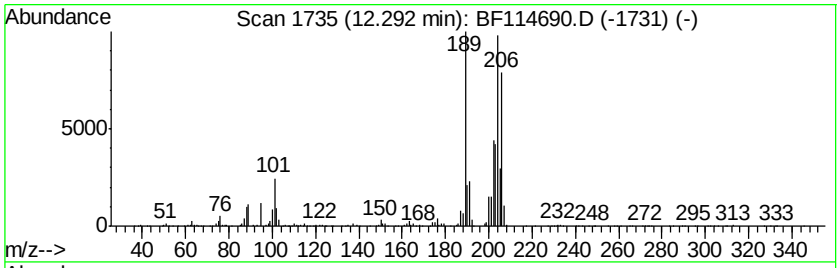
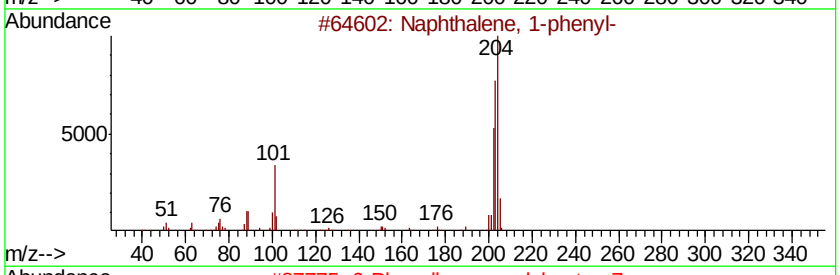
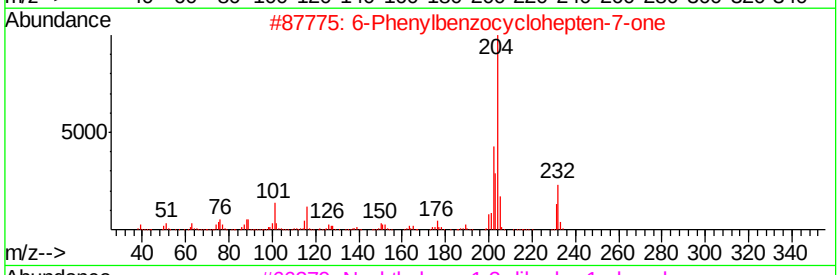
Peak Number 16 Naphthalene, 1-phenyl- Concentration Rank 15

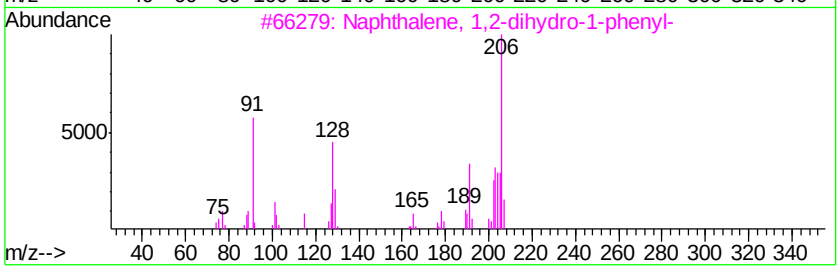
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	9.17 ng	1003830	Phenanthrene-d10	11.20

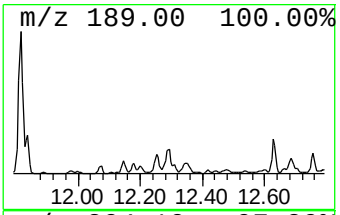
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	44
2	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	42
3	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	38
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	35
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	30

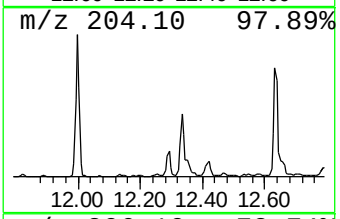


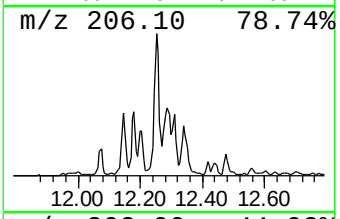


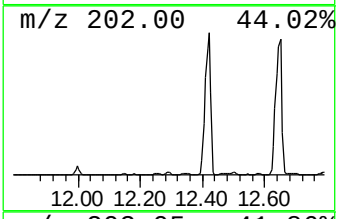


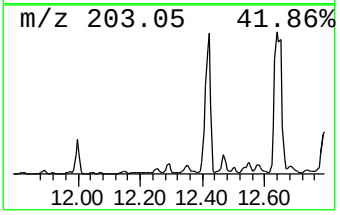












Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
Data File : BF114690.D
Acq On : 31 May 2019 4:43
Operator : HP/JU
Sample : K3068-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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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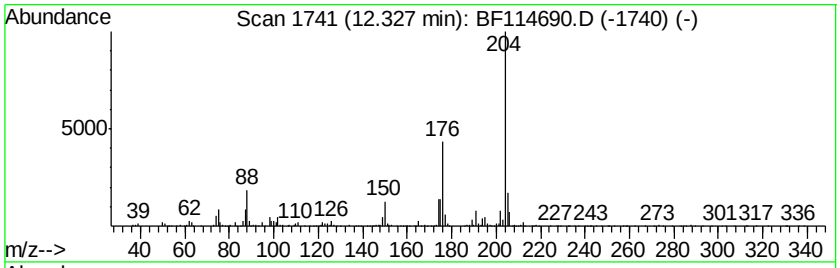
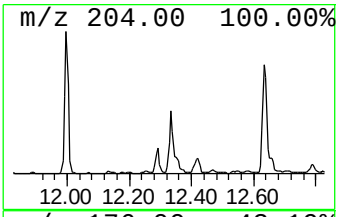
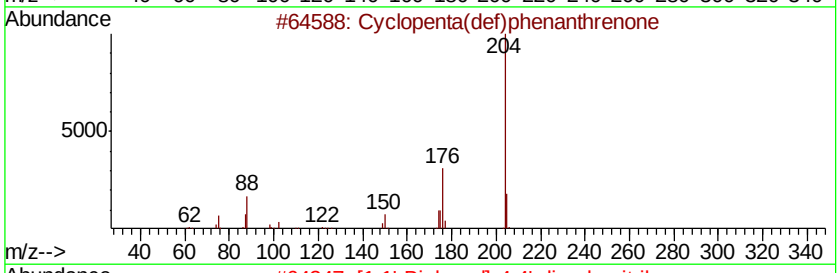
Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 11

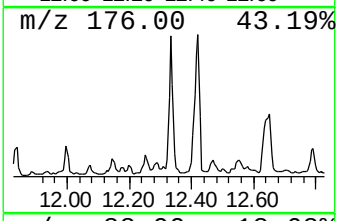
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	13.11 ng	1434750	Phenanthrene-d10	11.20

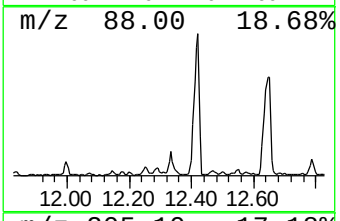
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
3	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	43
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	43
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	42

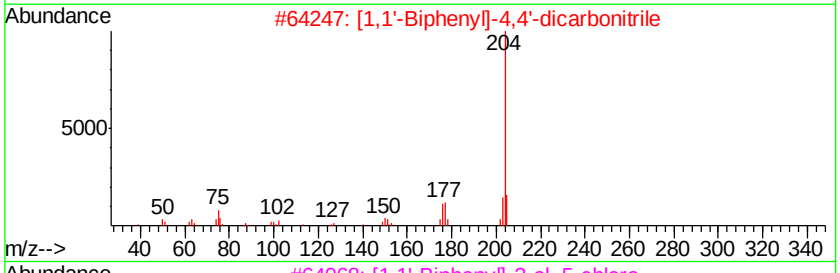


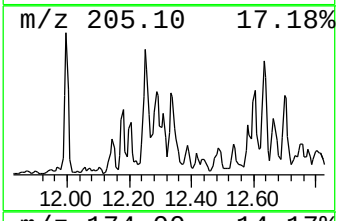


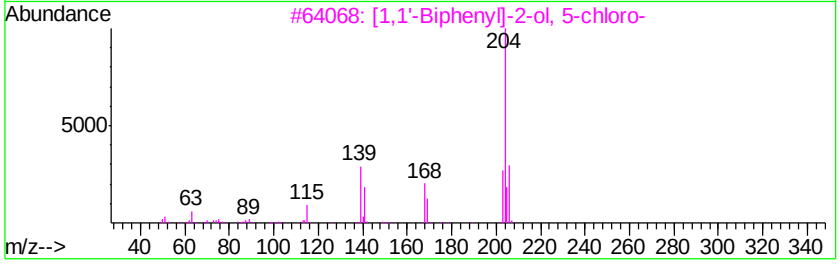


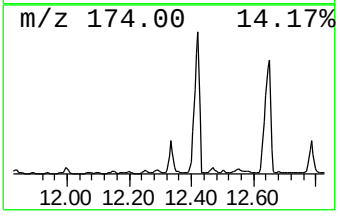












Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
Data File : BF114690.D
Acq On : 31 May 2019 4:43
Operator : HP/JU
Sample : K3068-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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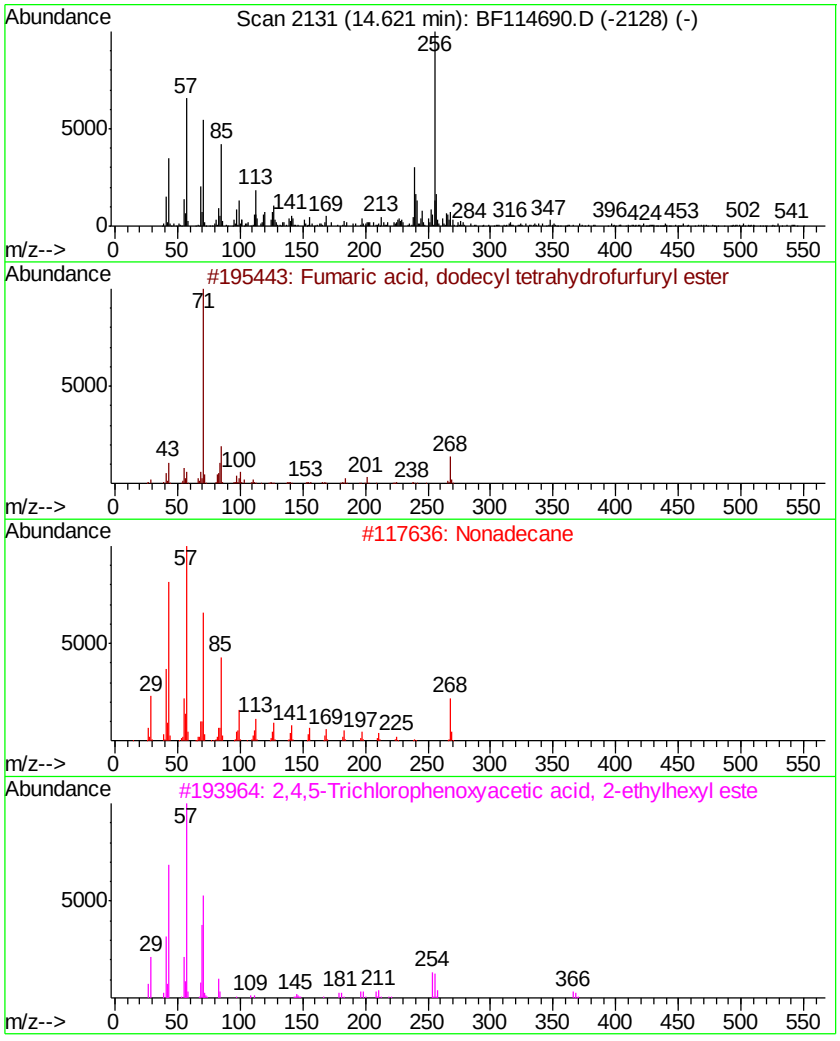
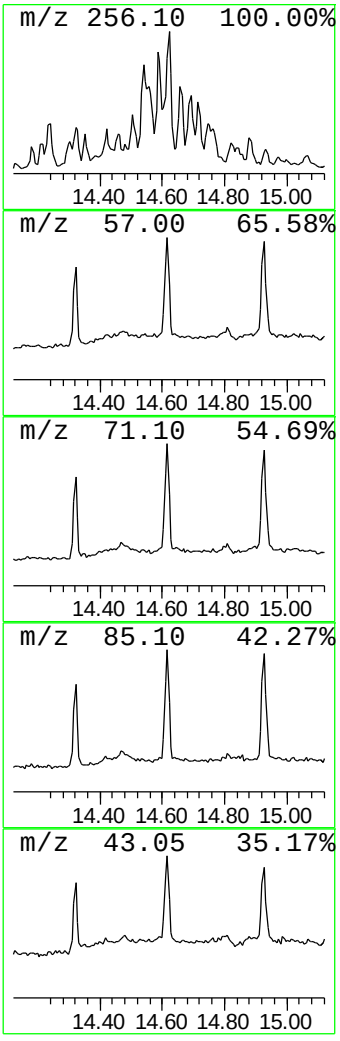
Peak Number 18 unknown14.62 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.62	8.57 ng	576198	Perylene-d12	15.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fumaric acid, dodecyl tetrahydro...	368	C21H36O5	1000330-58-6	32
2	Nonadecane	268	C19H40	000629-92-5	30
3	2,4,5-Trichlorophenoxyacetic aci...	366	C16H21Cl3O3	001928-47-8	17
4	2-Furanmethanamine, tetrahydro-	101	C5H11NO	004795-29-3	12
5	2,6,10,14-tetramethylpentadecano...	480	C23H39F7O2	1000376-67-3	10





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Misc :
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Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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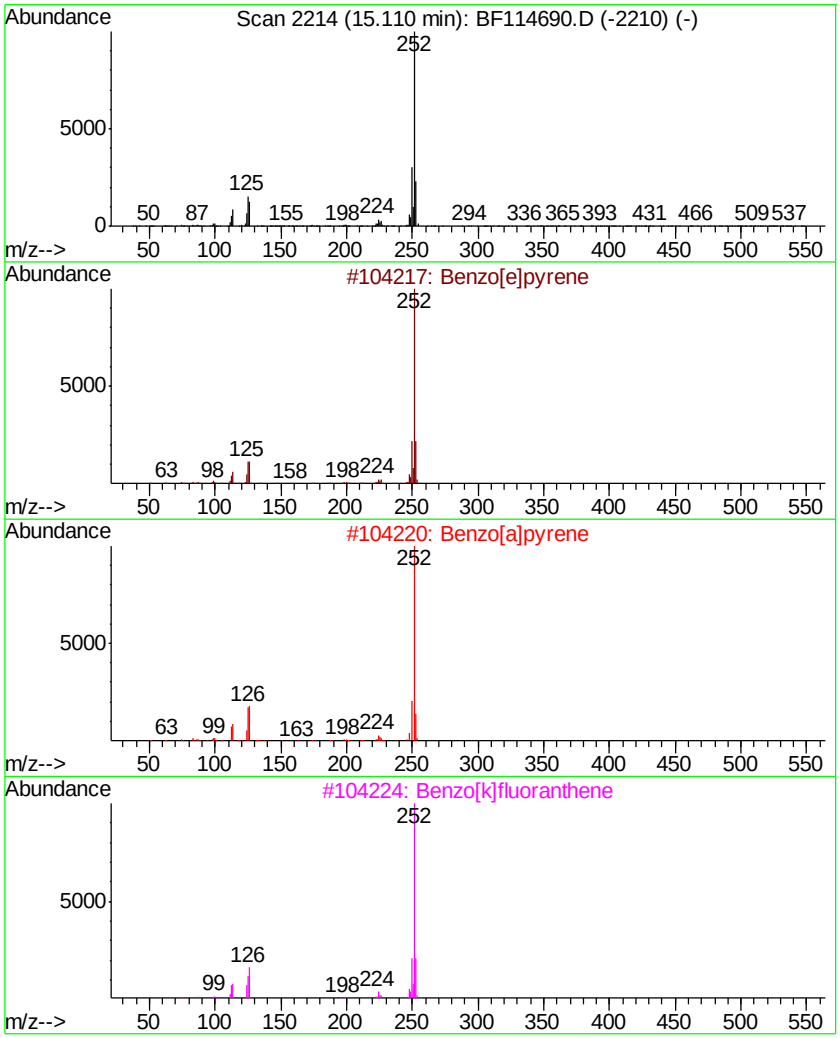
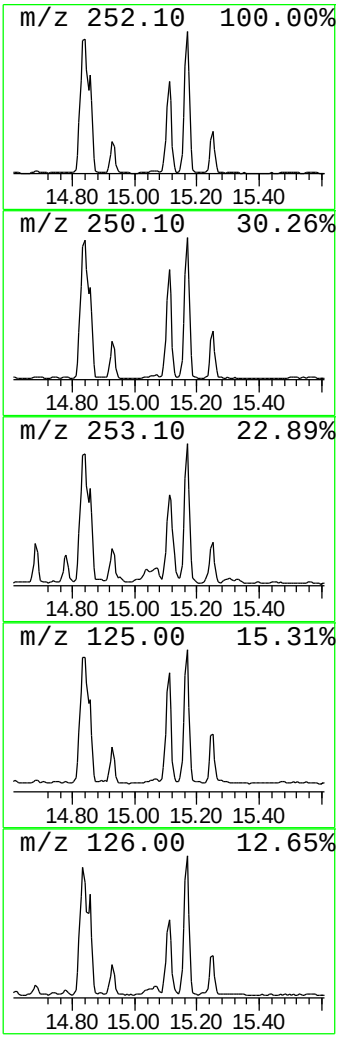
Peak Number 20 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.11	41.54 ng	2794220	Perylene-d12	15.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benzo[a]pyrene	252	C20H12	000050-32-8	93
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Perylene	252	C20H12	000198-55-0	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF053019\
Data File : BF114690.D
Acq On : 31 May 2019 4:43
Operator : HP/JU
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Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-6N(8.5-9.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF052919.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
unknown6.47	6.47	62.9	ng	6403180	1	6.70	2034640	20.0
9H-Fluorene, 2-me...	10.82	7.4	ng	809186	4	11.20	2188490	20.0
9H-Fluoren-9-one	11.00	7.9	ng	867116	4	11.20	2188490	20.0
4,4'-Dimethylbiph...	11.06	6.0	ng	656394	4	11.20	2188490	20.0
Dibenzothiophene	11.10	8.4	ng	917820	4	11.20	2188490	20.0
Phenanthrene, 2-m...	11.70	25.1	ng	2750080	4	11.20	2188490	20.0
Phenanthrene, 1-m...	11.73	33.0	ng	3608130	4	11.20	2188490	20.0
Anthracene, 1-met...	11.78	11.7	ng	1282900	4	11.20	2188490	20.0
4H-Cyclopenta[def...	11.82	40.9	ng	4470950	4	11.20	2188490	20.0
1H-Indene, 2-phenyl-	11.84	15.7	ng	1716020	4	11.20	2188490	20.0
Naphthalene, 2-ph...	12.00	15.5	ng	1696100	4	11.20	2188490	20.0
9,10-Anthracenedione	12.02	11.4	ng	1245570	4	11.20	2188490	20.0
Phenanthrene, 4,5...	12.15	10.0	ng	1090680	4	11.20	2188490	20.0
Phenanthrene, 2,5...	12.25	16.2	ng	1770710	4	11.20	2188490	20.0
Naphthalene, 1-ph...	12.29	9.2	ng	1003830	4	11.20	2188490	20.0
Cyclopenta(def)ph...	12.33	13.1	ng	1434750	4	11.20	2188490	20.0
unknown14.62	14.62	8.6	ng	576198	6	15.22	1345220	20.0
Benzo[e]pyrene	15.11	41.5	ng	2794220	6	15.22	1345220	20.0