LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111618\
Data File : BF110834.D
Acq On : 16 Nov 2018 23:11
Operator : JU/SJ
Sample : J5977-12 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

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-BF110818.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	5.557	587	590	610	rVB	145681	214705	6.56%	0.595%
2	6.563	758	761	774	rBV	182887	259853	7.94%	0.720%
3	6.710	782	786	792	rBV	262466	266942	8.15%	0.739%
4	6.939	821	825	832	rBV	391072	358372	10.95%	0.992%
5	7.092	848	851	865	rVB	212788	214362	6.55%	0.594%
6	7.504	918	921	935	rBV	115952	173458	5.30%	0.480%
7	8.222	1039	1043	1045	rBV	539461	514153	15.70%	1.424%
8	8.239	1045	1046	1053	rVB	483749	452912	13.83%	1.254%
9	8.933	1161	1164	1171	rBV	293910	299425	9.14%	0.829%
10	9.033	1177	1181	1188	rBV	224942	230251	7.03%	0.638%
11	9.292	1222	1225	1233	rBV	372539	312553	9.55%	0.866%
12	9.398	1240	1243	1248	rBV	114711	98253	3.00%	0.272%
13	9.563	1267	1271	1275	rBV	96786	132537	4.05%	0.367%
14	9.633	1280	1283	1286	rBV	178597	185025	5.65%	0.512%
15	9.663	1286	1288	1291	rBV	96054	76426	2.33%	0.212%
16	9.751	1299	1303	1311	rVB	92216	118700	3.63%	0.329%
17	9.839	1315	1318	1324	rBV	472182	467563	14.28%	1.295%
18	9.980	1339	1342	1345	rVV	604521	520509	15.90%	1.441%
19	10.016	1345	1348	1351	rVB	132089	123230	3.76%	0.341%
20	10.186	1372	1377	1380	rBV	369940	341572	10.43%	0.946%
21	10.221	1380	1383	1386	rVB	72672	68739	2.10%	0.190%
22	10.292	1391	1395	1398	rBV	82844	83131	2.54%	0.230%
23	10.439	1417	1420	1424	rBV	76783	86384	2.64%	0.239%
24	10.533	1432	1436	1442	rVB	788688	745080	22.76%	2.063%
25	10.686	1457	1462	1465	rVB	110139	109492	3.34%	0.303%
26	10.774	1470	1477	1483	rBV3	221613	298318	9.11%	0.826%
27	11.080	1518	1529	1531	rBV	168971	231969	7.08%	0.642%
28	11.110	1531	1534	1536	rVV	102099	98541	3.01%	0.273%
29	11.163	1540	1543	1546	rVV	88945	83055	2.54%	0.230%
30	11.286	1560	1564	1567	rVV	187480	190005	5.80%	0.526%
31	11.368	1575	1578	1584	rVB	242315	227916	6.96%	0.631%
32	11.474	1592	1596	1598	rBV	467742	473566	14.46%	1.311%
33	11.510	1598	1602	1605	rVV	3373189	3274197	100.00%	9.067%
34	11.557	1606	1610	1613	rVV	796339	760557	23.23%	2.106%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111618\
Data File : BF110834.D
Acq On : 16 Nov 2018 23:11
Operator : JU/SJ
Sample : J5977-12 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

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-BF110818.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.710	1631	1636	1639	rBV	252440	244101	7.46%	0.676%
36	11.763	1643	1645	1648	rVV	116033	94977	2.90%	0.263%
37	11.810	1650	1653	1657	rVB2	122440	135807	4.15%	0.376%
38	11.892	1662	1667	1671	rVB2	71999	109333	3.34%	0.303%
39	11.974	1677	1681	1684	rBV	468762	474403	14.49%	1.314%
40	12.004	1684	1686	1690	rVB	552795	505503	15.44%	1.400%
41	12.057	1691	1695	1697	rBV	191477	176993	5.41%	0.490%
42	12.092	1697	1701	1703	rVV2	778198	851464	26.01%	2.358%
43	12.115	1703	1705	1708	rVB	341526	275763	8.42%	0.764%
44	12.268	1728	1731	1735	rBV	308946	274874	8.40%	0.761%
45	12.310	1735	1738	1742	rVB2	189398	177019	5.41%	0.490%
46	12.421	1752	1757	1759	rBV2	70341	97176	2.97%	0.269%
47	12.451	1759	1762	1764	rVV	88792	74436	2.27%	0.206%
48	12.474	1764	1766	1769	rVB2	76206	71361	2.18%	0.198%
49	12.527	1769	1775	1778	rBV	302020	351102	10.72%	0.972%
50	12.568	1778	1782	1784	rVV3	169585	228399	6.98%	0.633%
51	12.627	1787	1792	1795	rBV2	181523	231902	7.08%	0.642%
52	12.704	1800	1805	1808	rBV	2611397	2552528	77.96%	7.069%
53	12.757	1812	1814	1817	rVV2	80273	74458	2.27%	0.206%
54	12.792	1817	1820	1825	rVV	390071	336196	10.27%	0.931%
55	12.845	1825	1829	1831	rVV3	133202	159021	4.86%	0.440%
56	12.868	1831	1833	1837	rVB	81844	73714	2.25%	0.204%
57	12.933	1837	1844	1847	rBV	2411555	2676849	81.76%	7.413%
58	12.974	1847	1851	1855	rVB	137914	144368	4.41%	0.400%
59	13.051	1858	1864	1867	rVV2	312680	360642	11.01%	0.999%
60	13.086	1867	1870	1875	rVB3	87604	120796	3.69%	0.335%
61	13.145	1875	1880	1884	rBV2	192467	330903	10.11%	0.916%
62	13.233	1891	1895	1896	rVV2	184243	240888	7.36%	0.667%
63	13.251	1896	1898	1902	rVB	440479	450069	13.75%	1.246%
64	13.321	1907	1910	1912	rVV	335249	316028	9.65%	0.875%
65	13.357	1912	1916	1923	rVV2	291604	369841	11.30%	1.024%
66	13.451	1929	1932	1935	rVV	246707	227189	6.94%	0.629%
67	13.480	1935	1937	1946	rVB	221312	281500	8.60%	0.780%
68	13.568	1946	1952	1955	rBV5	36896	68446	2.09%	0.190%
69	13.739	1976	1981	1983	rBV3	60817	91817	2.80%	0.254%
70	13.768	1983	1986	1989	rVV	169833	164819	5.03%	0.456%
71	13.880	1998	2005	2006	rBV	251569	301522	9.21%	0.835%

LSC Area Percent Report

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Acq On : 16 Nov 2018 23:11
Operator : JU/SJ
Sample : J5977-12 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

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-BF110818.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.898	2006	2008	2011	rVV	245838	207282	6.33%	0.574%
73	13.933	2011	2014	2020	rVV3	178792	276520	8.45%	0.766%
74	13.980	2020	2022	2028	rVB	203606	202408	6.18%	0.561%
75	14.045	2028	2033	2039	rBV	81438	156786	4.79%	0.434%
76	14.121	2039	2046	2050	rBV2	1385400	2133608	65.16%	5.909%
77	14.157	2050	2052	2055	rVV	1146607	977278	29.85%	2.706%
78	14.239	2063	2066	2069	rBV3	109756	116784	3.57%	0.323%
79	14.286	2071	2074	2079	rBV3	224065	244071	7.45%	0.676%
80	14.357	2082	2086	2089	rBV2	109537	126858	3.87%	0.351%
81	14.474	2104	2106	2108	rVV	70973	70832	2.16%	0.196%
82	14.515	2108	2113	2116	rVV	310434	417528	12.75%	1.156%
83	14.551	2116	2119	2122	rVV	179677	210413	6.43%	0.583%
84	14.592	2122	2126	2128	rVV4	127154	183512	5.60%	0.508%
85	14.615	2128	2130	2132	rVV2	132285	133389	4.07%	0.369%
86	14.645	2132	2135	2137	rVV	217803	235480	7.19%	0.652%
87	14.662	2137	2138	2142	rVV2	158869	149766	4.57%	0.415%
88	14.715	2143	2147	2149	rVV3	101275	122723	3.75%	0.340%
89	15.033	2198	2201	2204	rVB2	90961	106826	3.26%	0.296%
90	15.209	2226	2231	2234	rBV	679971	1157577	35.35%	3.206%
91	15.315	2246	2249	2253	rBV	177020	207750	6.35%	0.575%
92	15.527	2281	2285	2292	rVB	394775	514660	15.72%	1.425%
93	15.598	2292	2297	2303	rVV	597885	843547	25.76%	2.336%
94	15.656	2303	2307	2310	rVV	224666	288337	8.81%	0.798%
95	15.692	2310	2313	2319	rVB2	170106	248096	7.58%	0.687%
96	16.256	2406	2409	2414	rVB2	53417	72736	2.22%	0.201%
97	17.233	2568	2575	2582	rVB	205817	419044	12.80%	1.160%
98	17.409	2600	2605	2612	rBV3	41014	87093	2.66%	0.241%
99	17.709	2650	2656	2665	rVB	135703	291658	8.91%	0.808%
100	17.974	2693	2701	2709	rVB2	38219	99881	3.05%	0.277%

Sum of corrected areas: 36110401

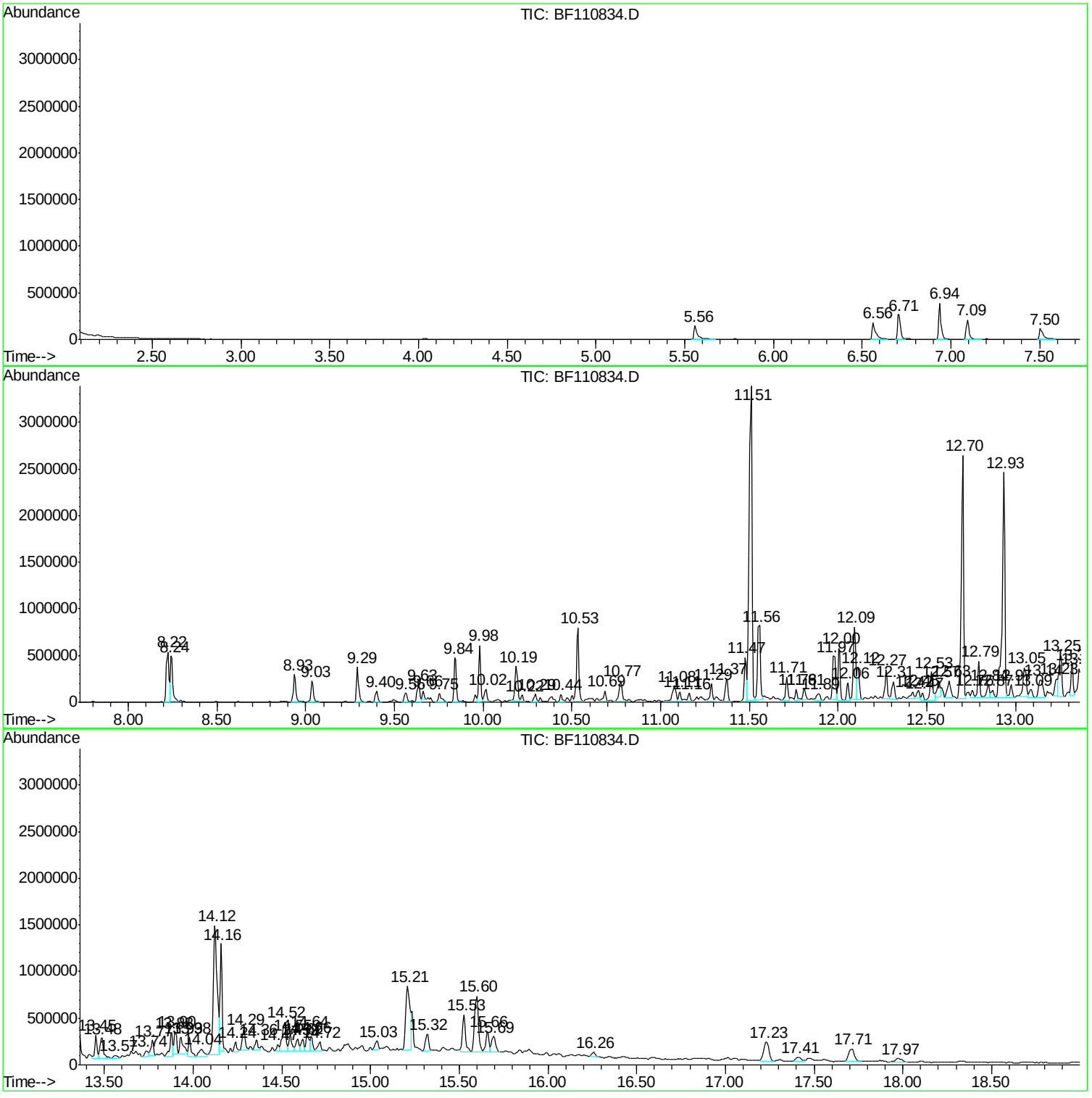
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111618\
Data File : BF110834.D
Acq On : 16 Nov 2018 23:11
Operator : JU/SJ
Sample : J5977-12 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.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 : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111618\
Data File : BF110834.D
Acq On : 16 Nov 2018 23:11
Operator : JU/SJ
Sample : J5977-12 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

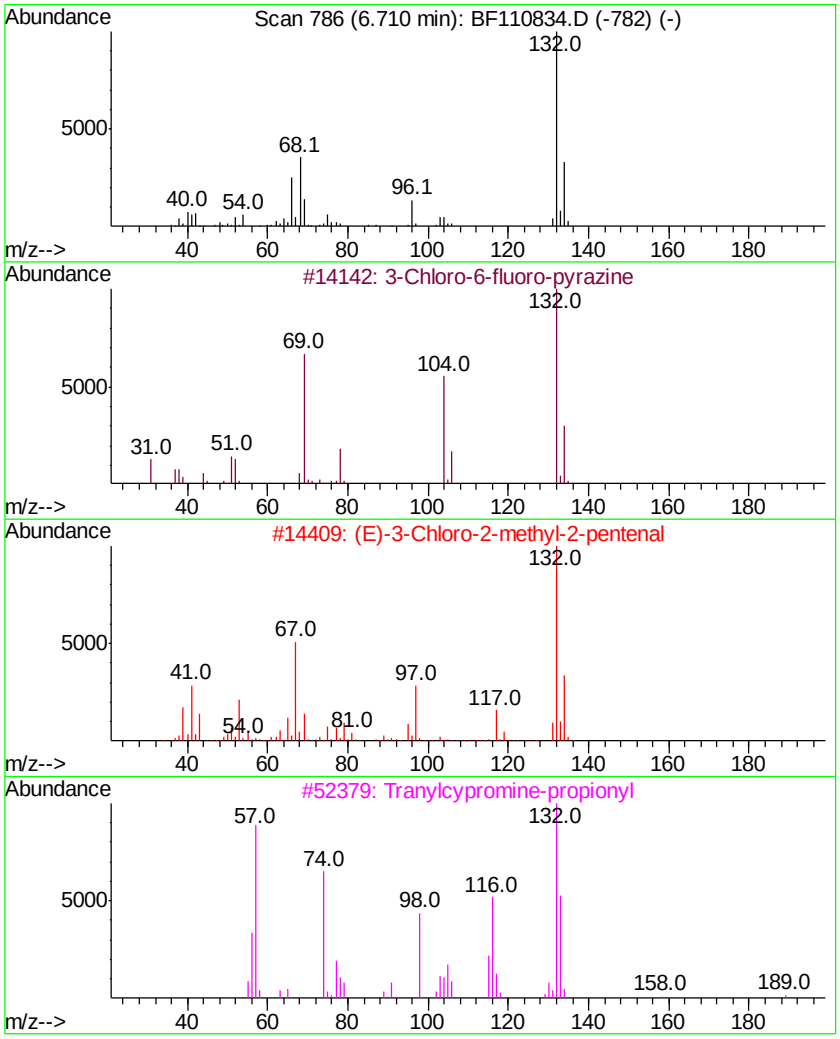
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

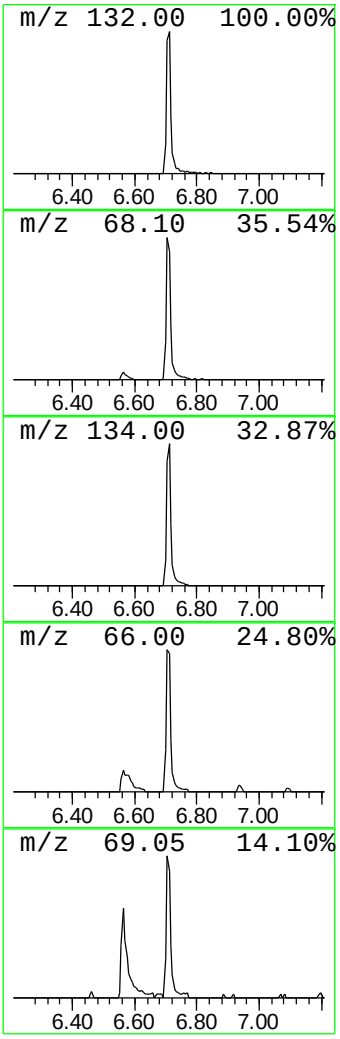
****

Peak Number 1 unknown6.71 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.71	14.90 ng	266942	1,4-Dichlorobenzene-d4	6.94

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	25
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	16
4	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9
5	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111618\
Data File : BF110834.D
Acq On : 16 Nov 2018 23:11
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Sample : J5977-12 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

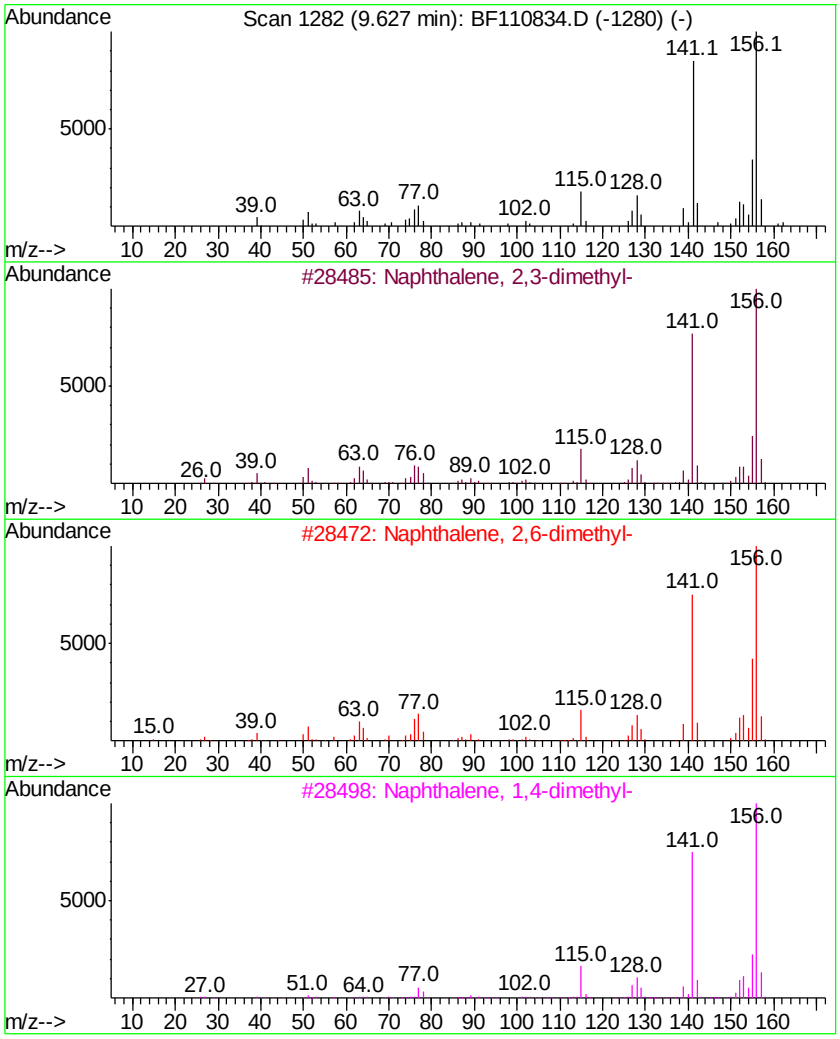
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

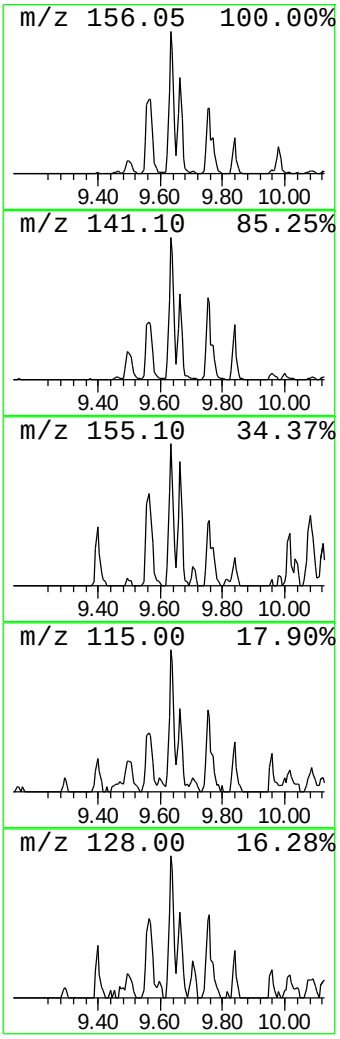
****

Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.63	7.11 ng	185025	Acenaphthene-d10	9.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
3	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111618\
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Acq On : 16 Nov 2018 23:11
Operator : JU/SJ
Sample : J5977-12 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

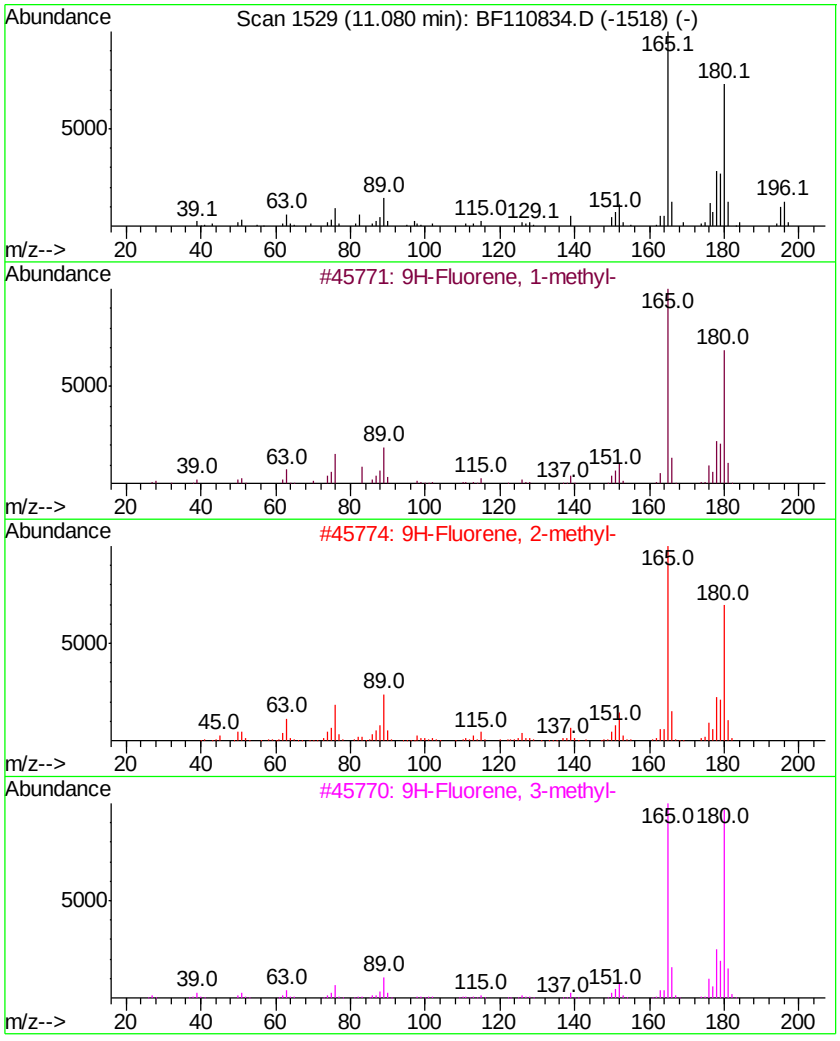
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

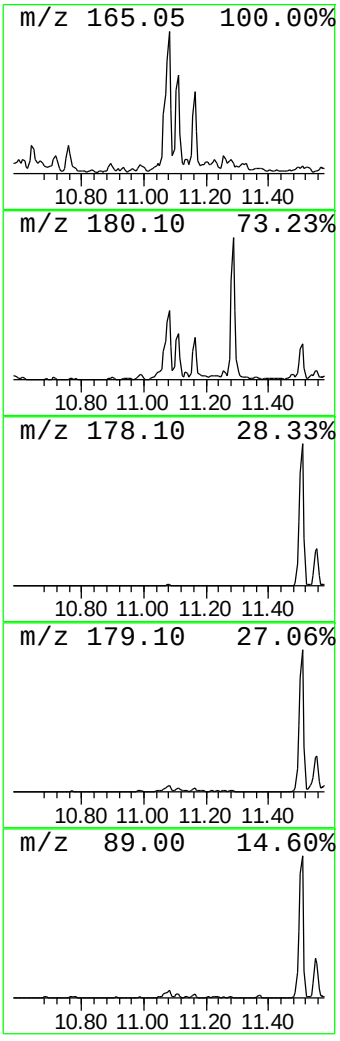
****

Peak Number 4 9H-Fluorene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.08	9.80 ng	231969	Phenanthrene-d10	11.47

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, 3-methyl-	180	C14H12	002523-39-9	95
4	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	86
5	3H-Benz[e]indene, 2-methyl-	180	C14H12	150096-60-9	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111618\
Data File : BF110834.D
Acq On : 16 Nov 2018 23:11
Operator : JU/SJ
Sample : J5977-12 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

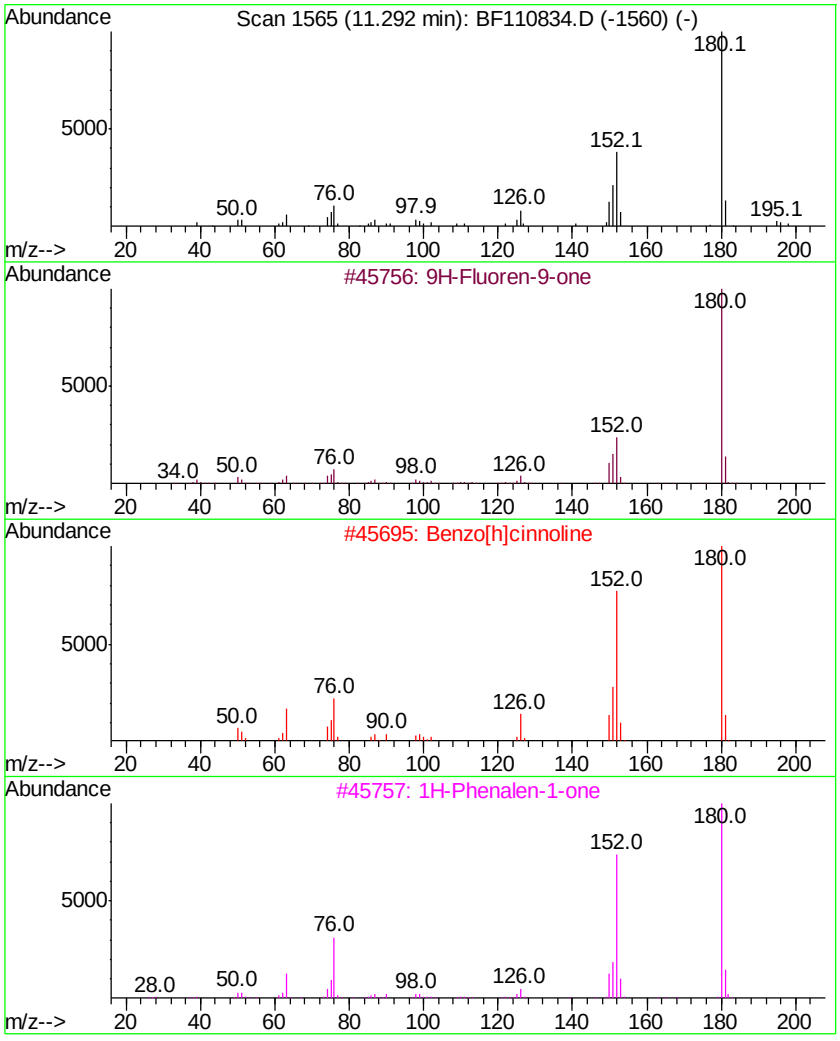
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

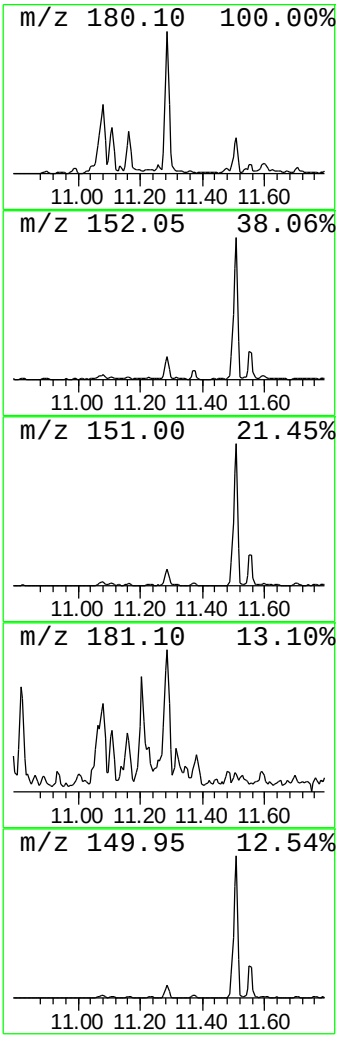
****

Peak Number 5 9H-Fluoren-9-one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	8.02 ng	190005	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	83
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	72
4	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	50
5	1,1'-Biphenyl, 4-ethenyl-	180	C14H12	002350-89-2	42





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111618\
Data File : BF110834.D
Acq On : 16 Nov 2018 23:11
Operator : JU/SJ
Sample : J5977-12 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

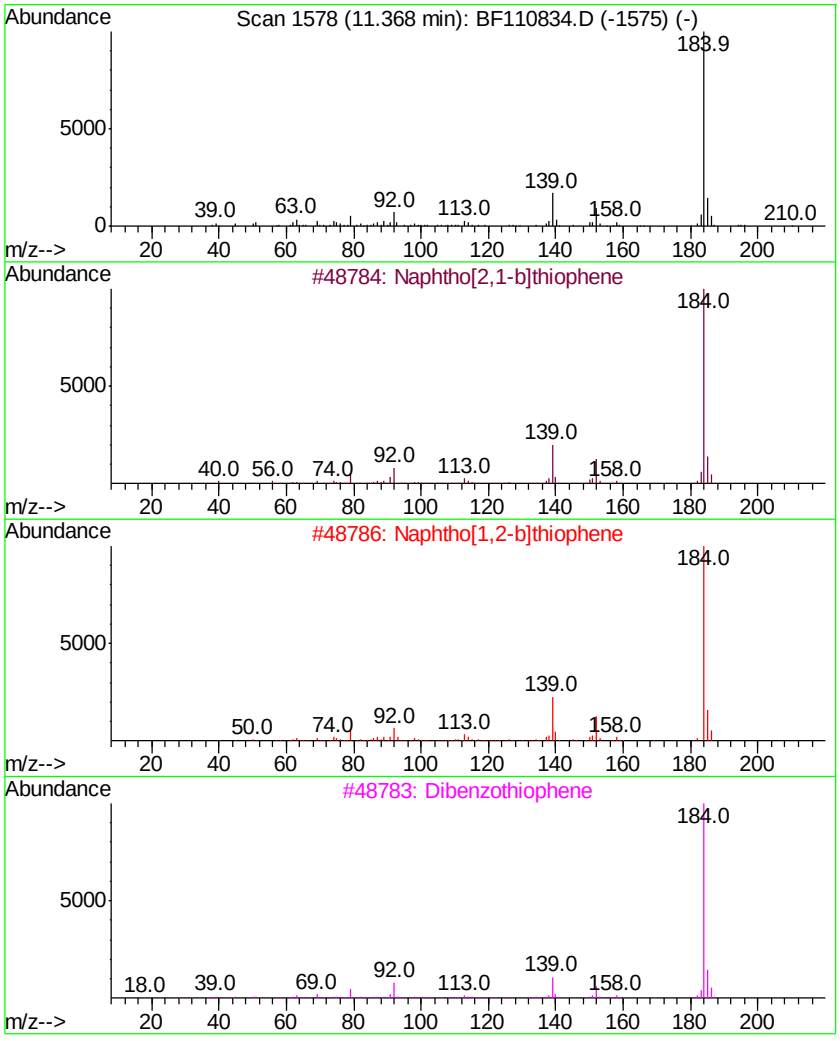
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

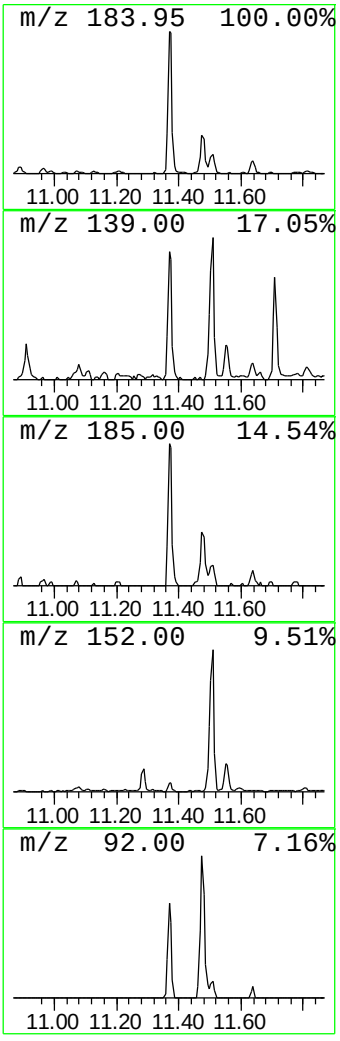
****

Peak Number 6 Naphtho[2,1-b]thiophene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	9.63 ng	227916	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	97
3	Dibenzothiophene	184	C12H8S	000132-65-0	95
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





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Operator : JU/SJ
Sample : J5977-12 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

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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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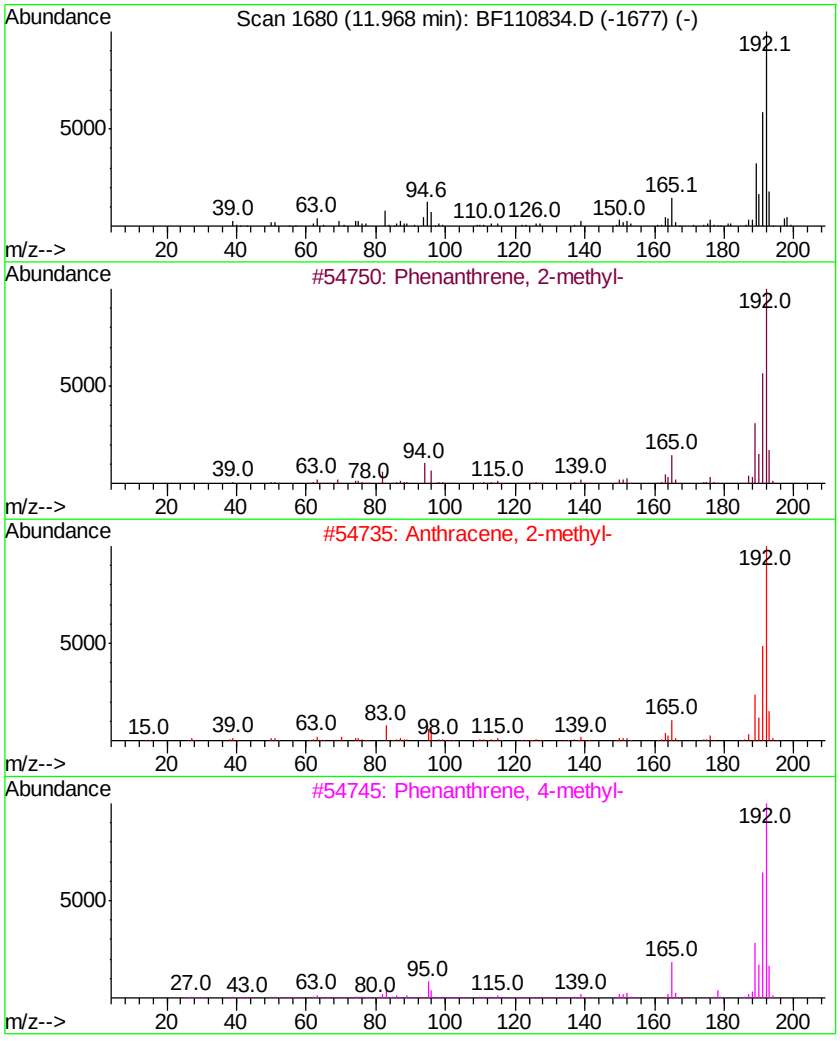
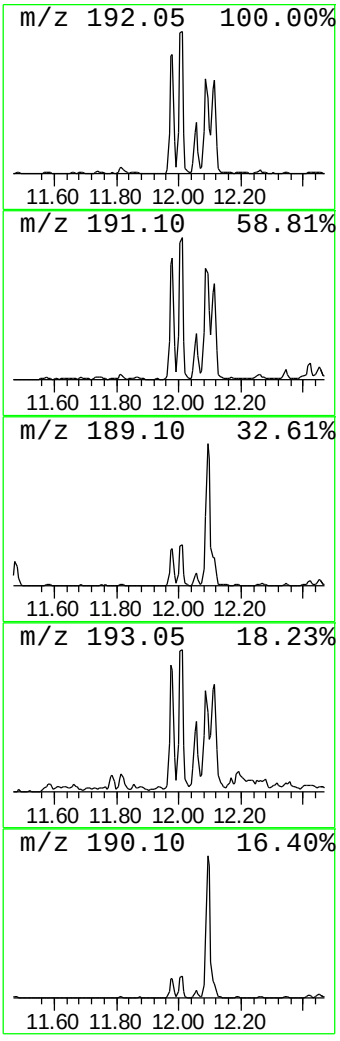
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	20.04 ng	474403	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





Library Search Compound Report

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Sample : J5977-12 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

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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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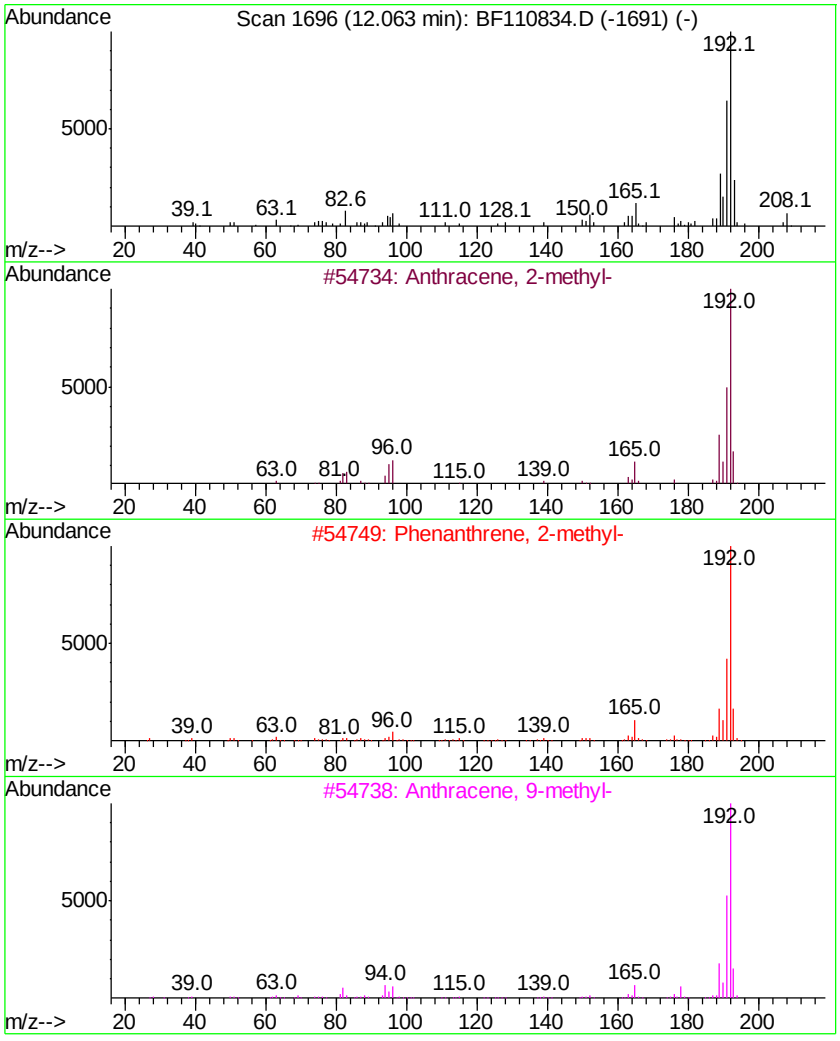
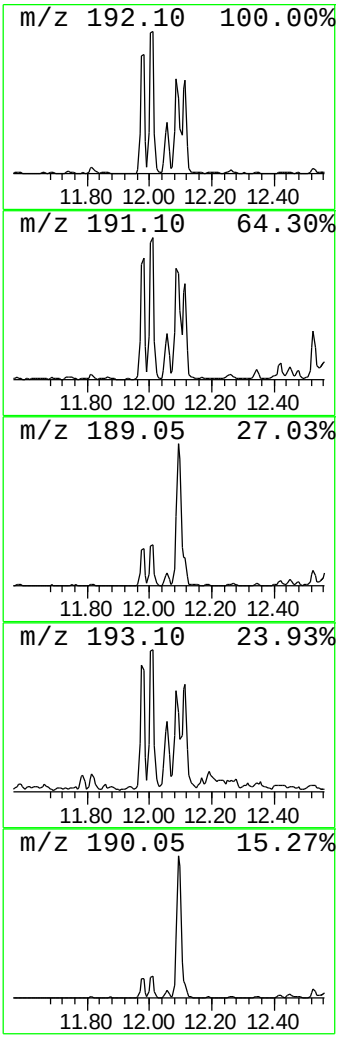
Peak Number 9 Anthracene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	7.47 ng	176993	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	91





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Sample : J5977-12 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

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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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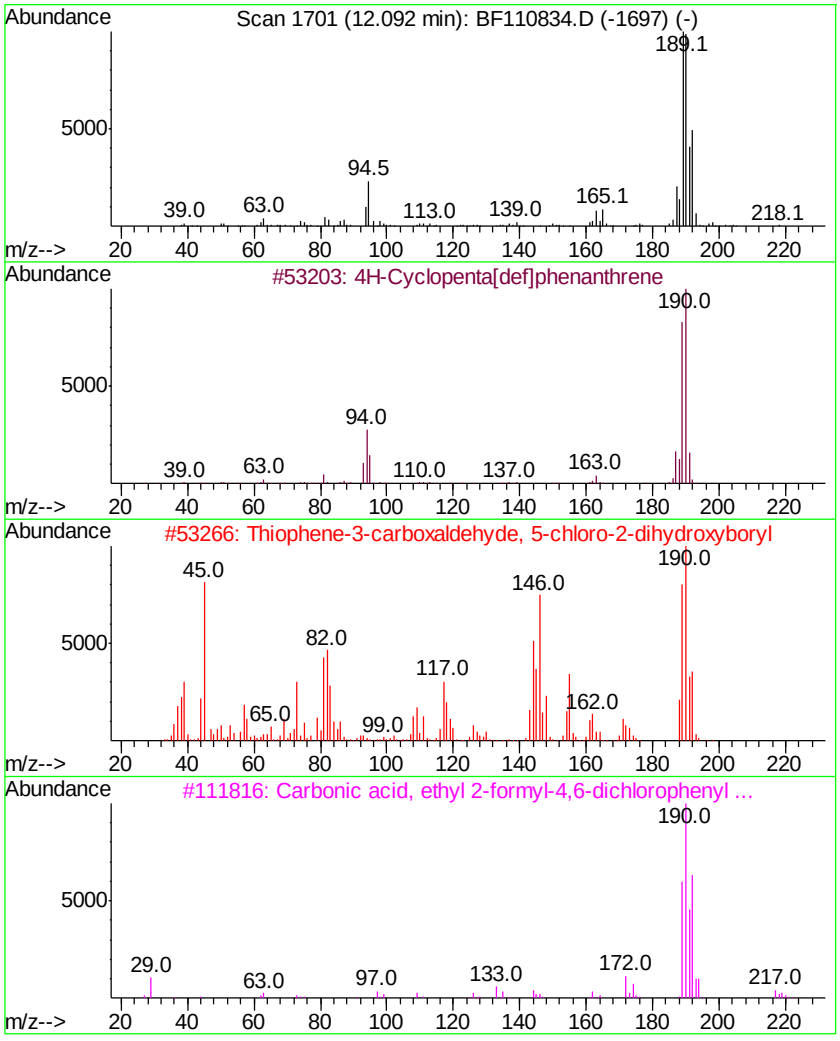
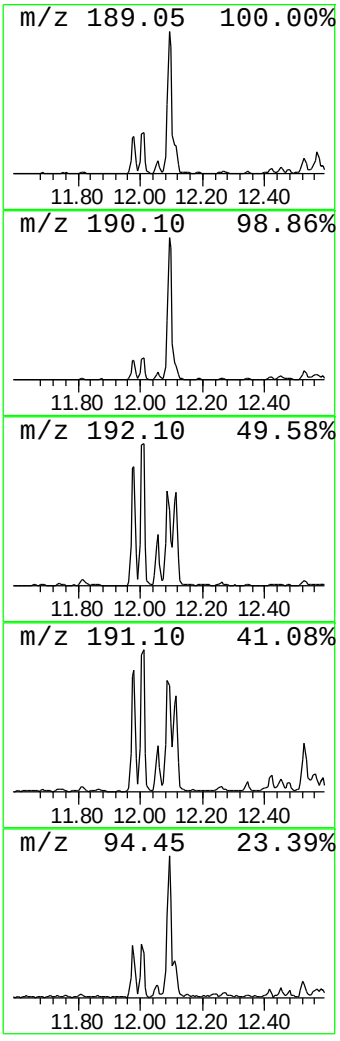
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	35.96 ng	851464	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	53
3	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	50
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	42
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40





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Sample : J5977-12 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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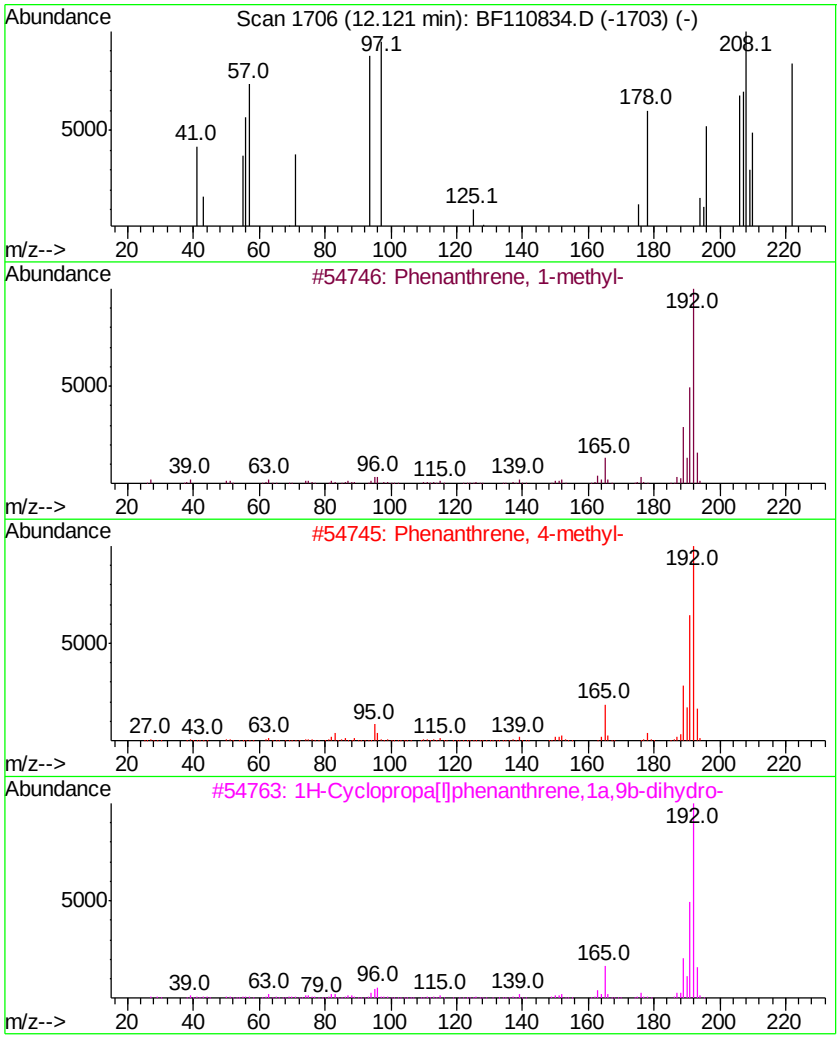
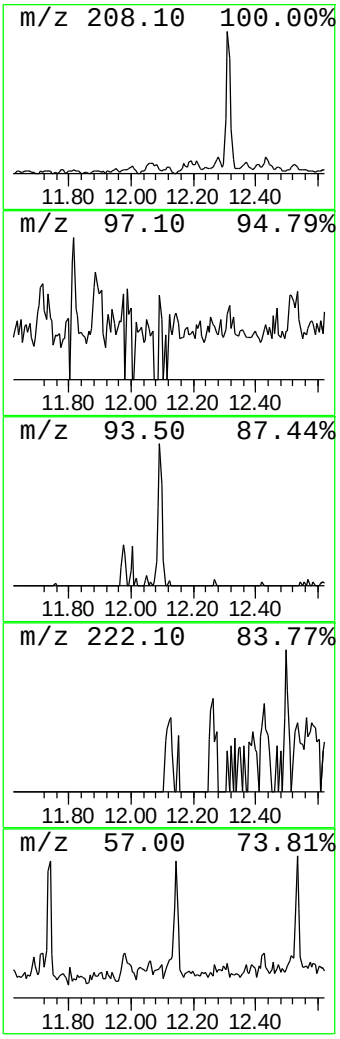
Peak Number 11 Phenanthrene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	11.65 ng	275763	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	90





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Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

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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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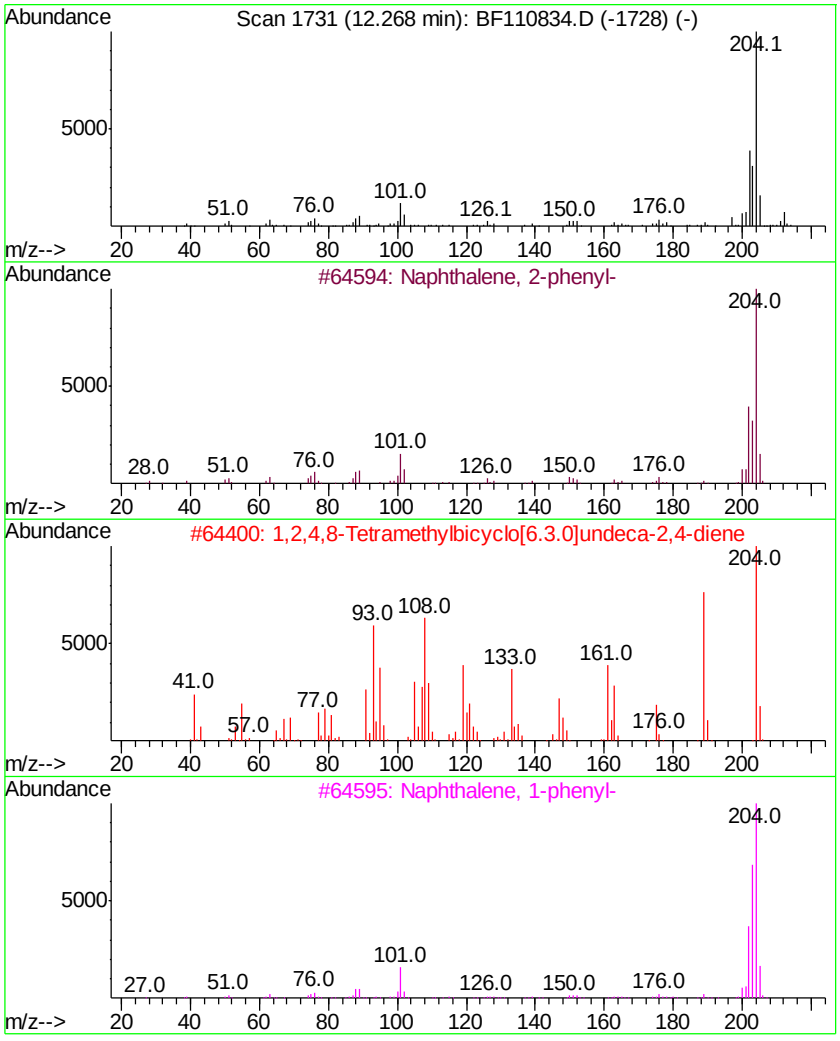
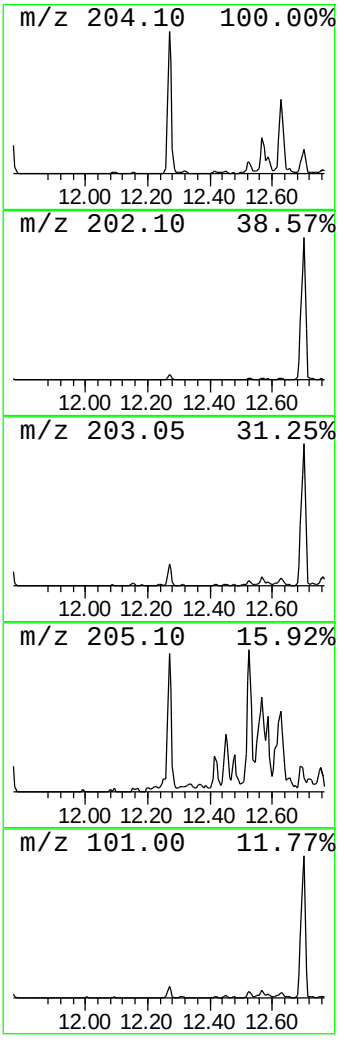
Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	11.61 ng	274874	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	80
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	70
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	64





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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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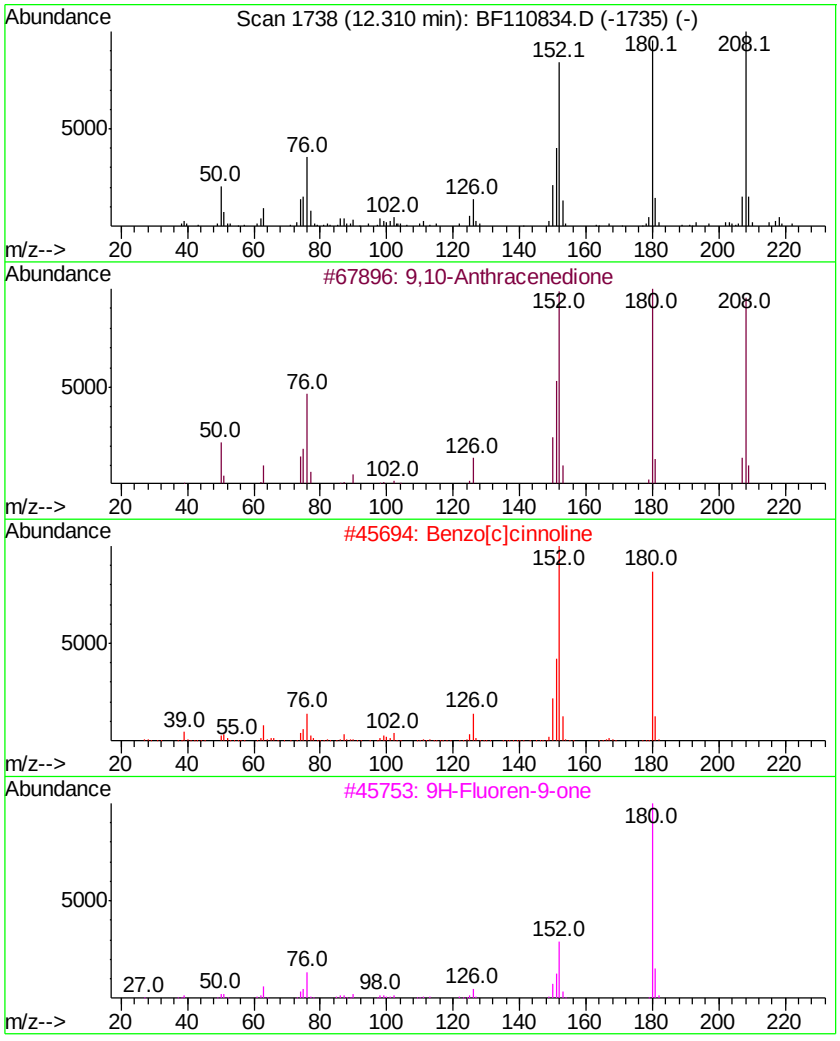
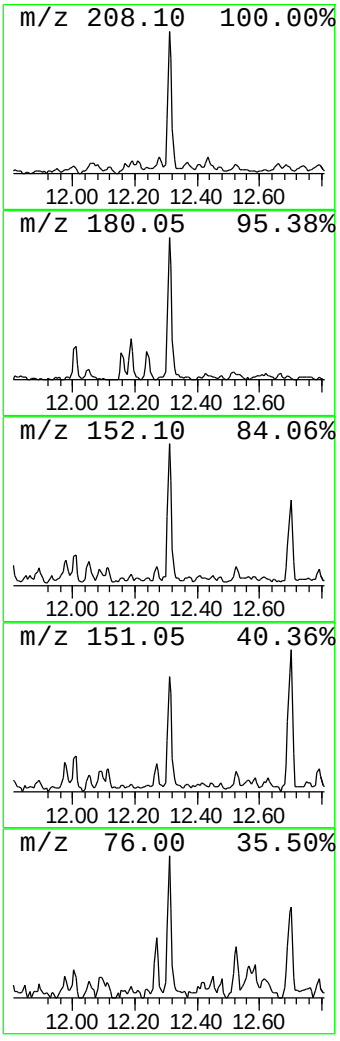
Peak Number 13 9,10-Anthracenedione Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.31	7.48 ng	177019	Phenanthrene-d10	11.47

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	96
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	86
4	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	64
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60





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Sample : J5977-12 5X
Misc :
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Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

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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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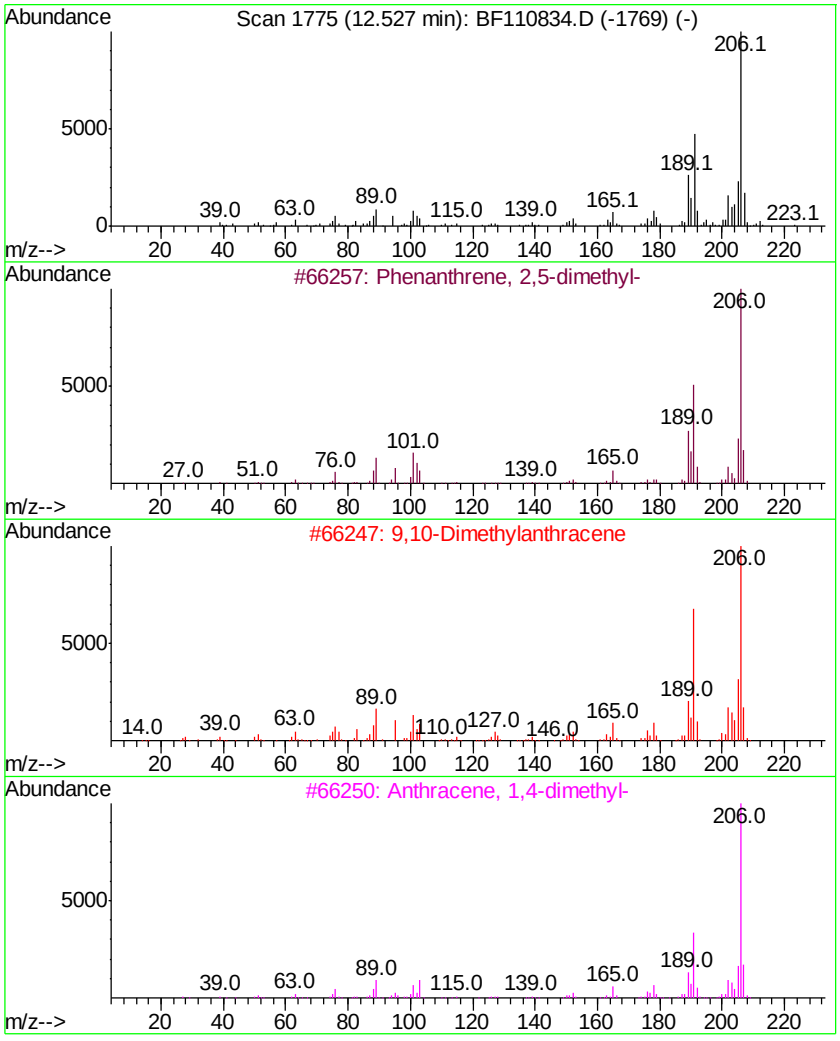
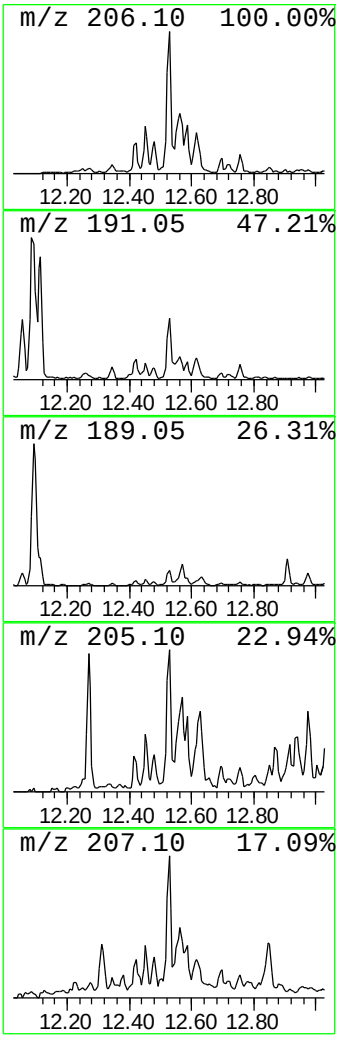
Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	14.83 ng	351102	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90





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Sample : J5977-12 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

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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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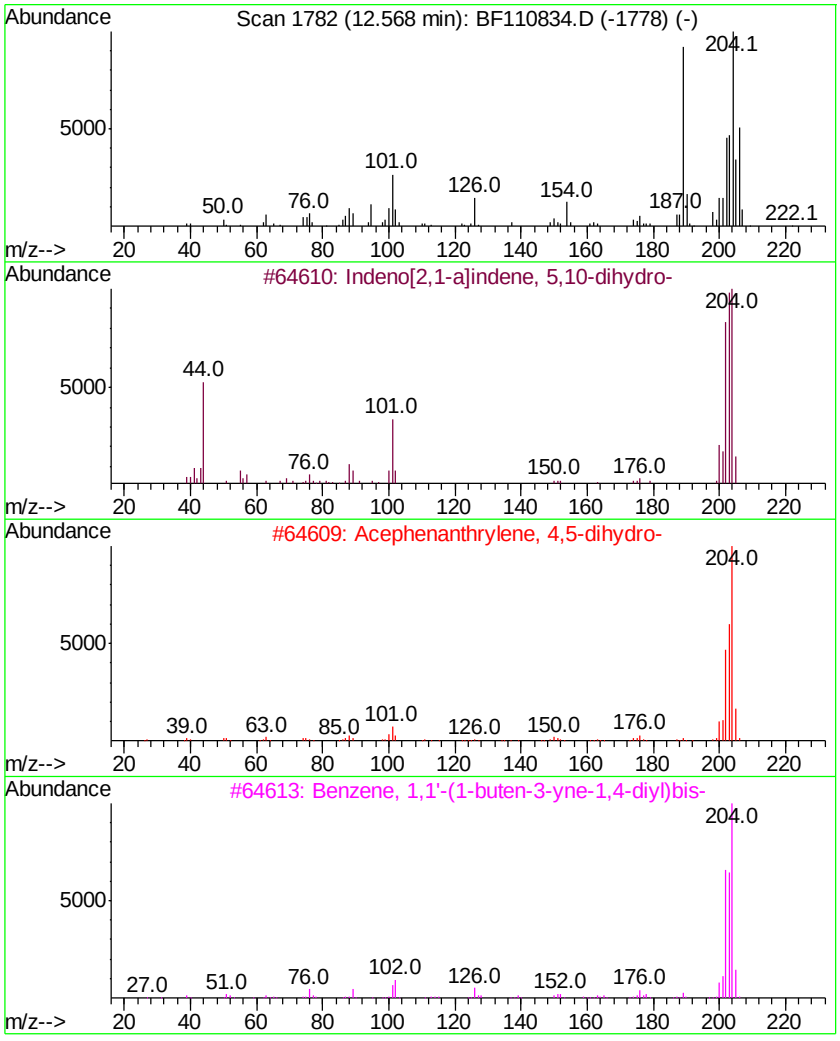
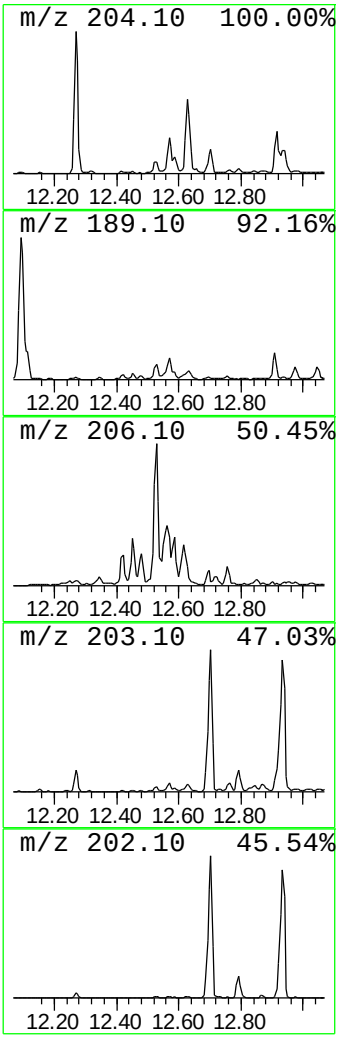
Peak Number 15 unknown12.57 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	9.65 ng	228399	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	49
2	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	46
3	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	46
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	46
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	43





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Misc :
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Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

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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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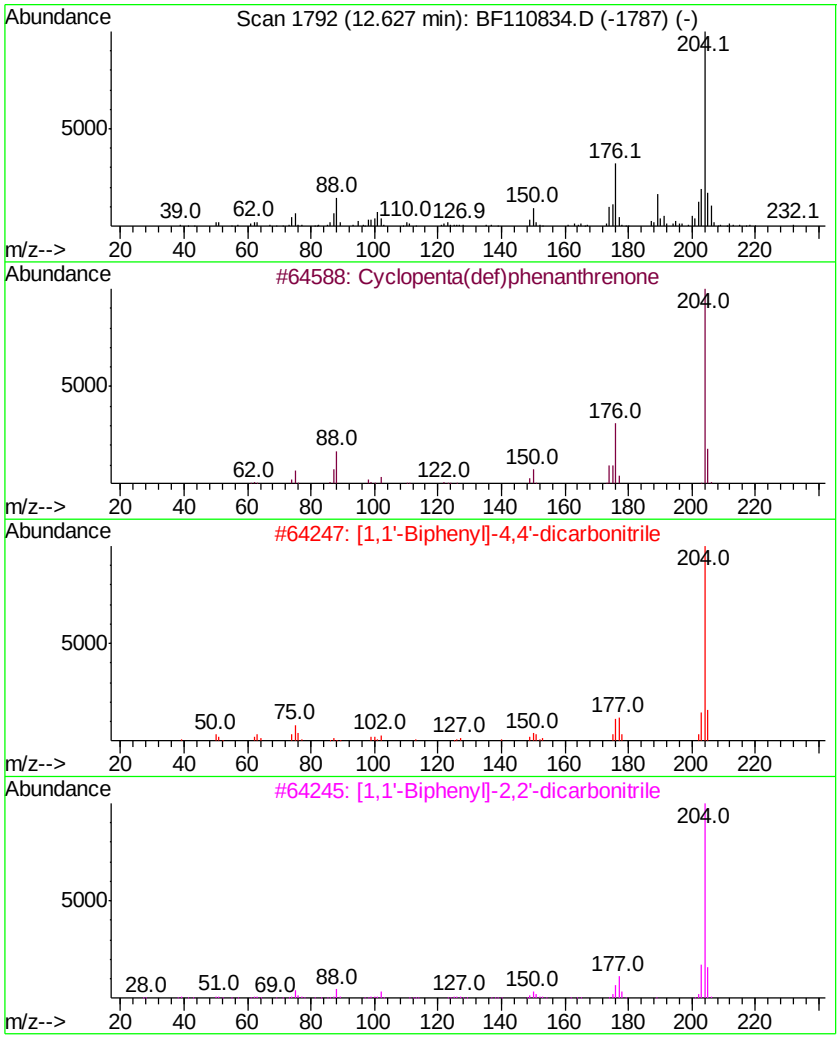
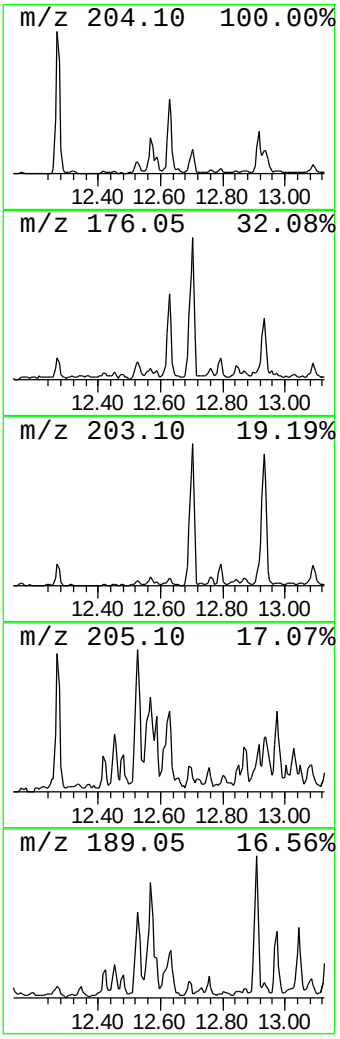
Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	9.79 ng	231902	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	59
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	52
4	1,4-Naphthalenedione, 5,8-dihydr...	204	C11H8O4	014554-09-7	50
5	4-(p-Anisidino)-3-pyrrolin-2-one	204	C11H12N2O2	1000260-86-2	49





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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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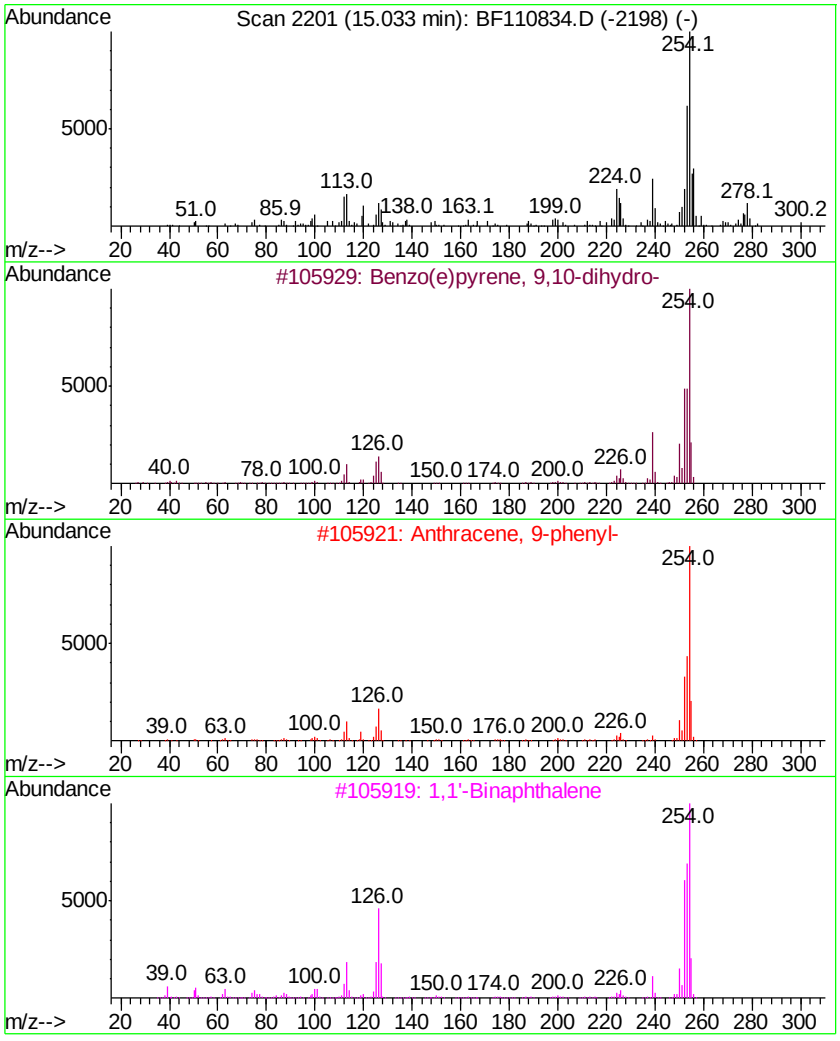
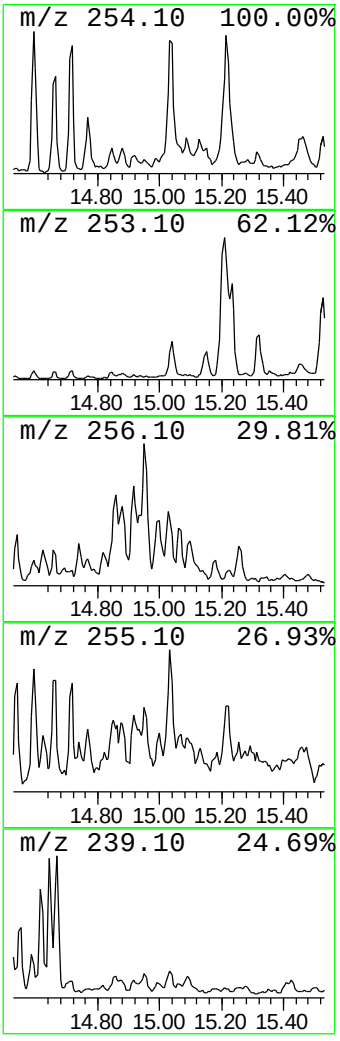
Peak Number 18 Benzo(e)pyrene, 9,10-dihydro- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.03	7.41 ng	106826	Perylene-d12	15.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(e)pyrene, 9,10-dihydro-	254	C20H14	066788-01-0	70
2	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	58
3	1,1'-Binaphthalene	254	C20H14	000604-53-5	58
4	Benzo(a)pyrene, 7,8-dihydro-	254	C20H14	017573-23-8	58
5	Estra-1,3,5(10),16-tetraen-3-ol	254	C18H22O	001150-90-9	50





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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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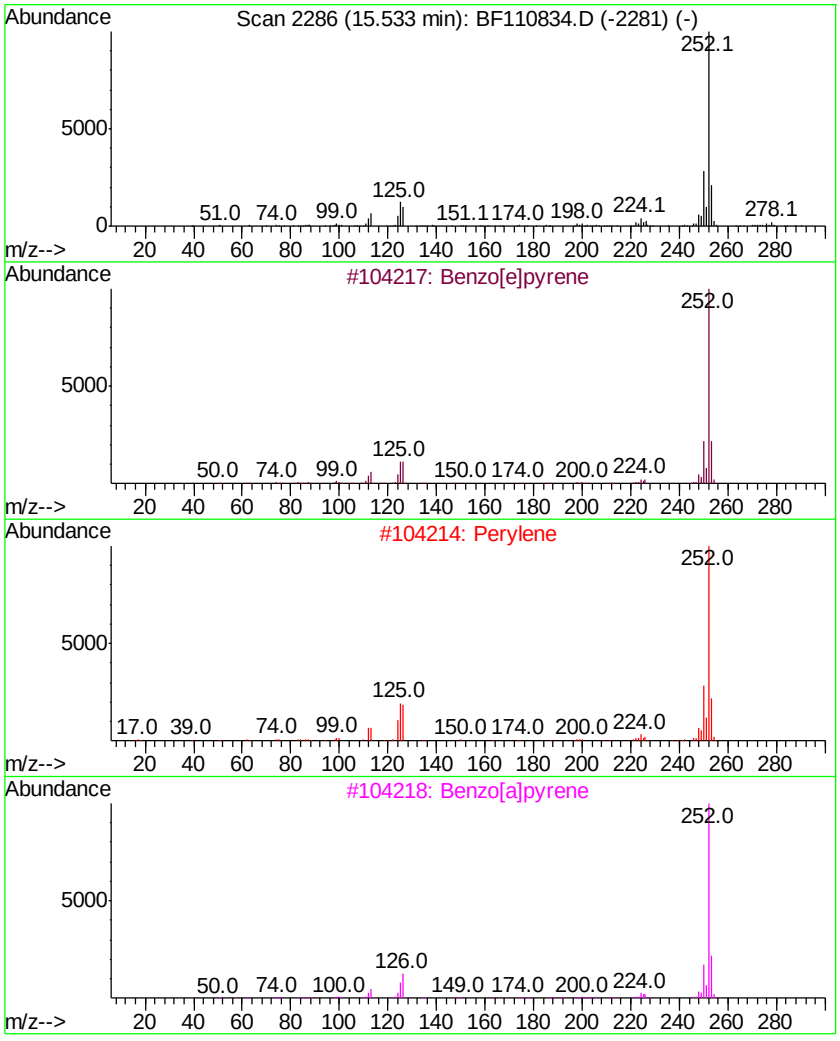
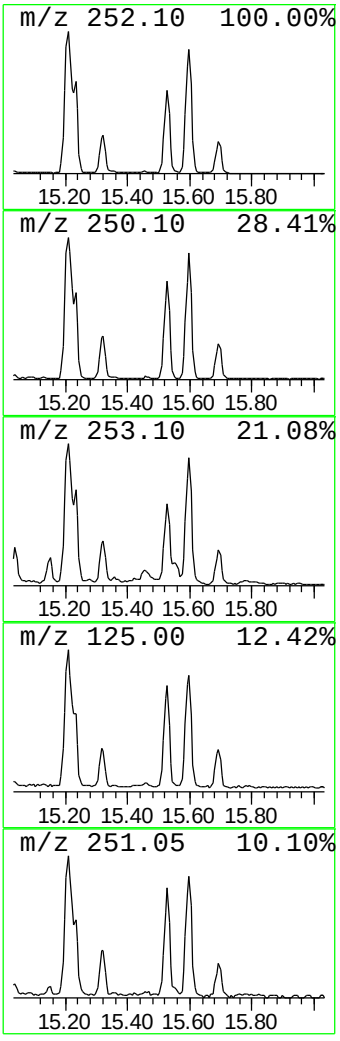
Peak Number 20 Benzo[e]pyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.53	35.70 ng	514660	Perylene-d12	15.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Perylene	252	C20H12	000198-55-0	96
3	Benzo[a]pyrene	252	C20H12	000050-32-8	95
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF111618\
Data File : BF110834.D
Acq On : 16 Nov 2018 23:11
Operator : JU/SJ
Sample : J5977-12 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MMTW-01(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.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
unknown6.71	6.71	14.9	ng	266942	1	6.94	358372	20.0
Naphthalene, 2,3-...	9.63	7.1	ng	185025	3	9.98	520509	20.0
9H-Fluorene, 1-me...	11.08	9.8	ng	231969	4	11.47	473566	20.0
9H-Fluoren-9-one	11.29	8.0	ng	190005	4	11.47	473566	20.0
Naphtho[2,1-b]thi...	11.37	9.6	ng	227916	4	11.47	473566	20.0
Phenanthrene, 2-m...	11.97	20.0	ng	474403	4	11.47	473566	20.0
Anthracene, 2-met...	12.06	7.5	ng	176993	4	11.47	473566	20.0
4H-Cyclopenta[def...	12.09	36.0	ng	851464	4	11.47	473566	20.0
Phenanthrene, 1-m...	12.12	11.7	ng	275763	4	11.47	473566	20.0
Naphthalene, 2-ph...	12.27	11.6	ng	274874	4	11.47	473566	20.0
9,10-Anthracenedione	12.31	7.5	ng	177019	4	11.47	473566	20.0
Phenanthrene, 2,5...	12.53	14.8	ng	351102	4	11.47	473566	20.0
unknown12.57	12.57	9.7	ng	228399	4	11.47	473566	20.0
Cyclopenta(def)ph...	12.63	9.8	ng	231902	4	11.47	473566	20.0
Benzo(e)pyrene, 9...	15.03	7.4	ng	106826	6	15.66	288337	20.0
Benzo[e]pyrene	15.53	35.7	ng	514660	6	15.66	288337	20.0