LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\
Data File : BF113003.D
Acq On : 12 Mar 2019 15:22
Operator : JU/SJ
Sample : K1843-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GATE-SOIL-BOX

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-BF022719.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	5.351	549	555	558	rBV	4522737	4691409	92.71%	5.843%
2	6.375	723	729	732	rBV	4340980	5035245	99.51%	6.271%
3	6.504	746	751	754	rBV	4933577	5006963	98.95%	6.236%
4	6.734	786	790	793	rBV	1373532	1199615	23.71%	1.494%
5	6.887	812	816	820	rBV	3862397	3821316	75.52%	4.759%
6	7.292	880	885	888	rBV	3110372	3226269	63.76%	4.018%
7	8.010	1003	1007	1014	rBV	1509624	1589447	31.41%	1.980%
8	8.728	1125	1129	1138	rBV	98321	103763	2.05%	0.129%
9	8.822	1142	1145	1150	rVV	120054	99497	1.97%	0.124%
10	9.092	1185	1191	1194	rBV	5026010	5060112	100.00%	6.302%
11	9.351	1230	1235	1240	rBV	47958	71712	1.42%	0.089%
12	9.422	1244	1247	1250	rVV	115099	120145	2.37%	0.150%
13	9.481	1254	1257	1263	rVV	497422	458138	9.05%	0.571%
14	9.539	1263	1267	1272	rVV	59000	73928	1.46%	0.092%
15	9.622	1276	1281	1284	rVB2	86724	79652	1.57%	0.099%
16	9.763	1299	1305	1308	rBV	1859810	1704373	33.68%	2.123%
17	9.792	1308	1310	1314	rVB	491825	392429	7.76%	0.489%
18	9.916	1327	1331	1336	rBV2	93084	107371	2.12%	0.134%
19	9.963	1336	1339	1343	rVB	147154	146119	2.89%	0.182%
20	10.169	1370	1374	1379	rBV4	59520	105288	2.08%	0.131%
21	10.304	1394	1397	1403	rBV	374232	328375	6.49%	0.409%
22	10.463	1422	1424	1429	rVB2	102012	113817	2.25%	0.142%
23	10.551	1434	1439	1442	rBV	3279680	3548930	70.14%	4.420%
24	10.675	1457	1460	1467	rVB3	88562	110266	2.18%	0.137%
25	10.851	1484	1490	1493	rBV4	116415	194021	3.83%	0.242%
26	10.880	1493	1495	1498	rVV2	97319	90609	1.79%	0.113%
27	11.045	1520	1523	1527	rVB	142465	140113	2.77%	0.175%
28	11.098	1527	1532	1535	rBV2	118243	170187	3.36%	0.212%
29	11.133	1535	1538	1544	rVB	177804	217292	4.29%	0.271%
30	11.239	1552	1556	1558	rBV	1749452	1655816	32.72%	2.062%
31	11.263	1558	1560	1564	rVV	3356755	3052827	60.33%	3.802%
32	11.316	1564	1569	1572	rVV	754602	775497	15.33%	0.966%
33	11.469	1590	1595	1597	rBV2	140129	152726	3.02%	0.190%
34	11.533	1603	1606	1610	rBV2	146231	145255	2.87%	0.181%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\
Data File : BF113003.D
Acq On : 12 Mar 2019 15:22
Operator : JU/SJ
Sample : K1843-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GATE-SOIL-BOX

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-BF022719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.569	1610	1612	1615	rVB2	86815	72121	1.43%	0.090%
36	11.739	1638	1641	1643	rBV	633198	512153	10.12%	0.638%
37	11.769	1643	1646	1651	rVV2	866700	1134032	22.41%	1.412%
38	11.816	1651	1654	1656	rVV2	250650	269094	5.32%	0.335%
39	11.851	1656	1660	1662	rVV	826266	930626	18.39%	1.159%
40	11.875	1662	1664	1668	rVB	408663	346628	6.85%	0.432%
41	12.033	1688	1691	1693	rBV	411544	351665	6.95%	0.438%
42	12.057	1693	1695	1701	rVB	288923	276300	5.46%	0.344%
43	12.110	1701	1704	1708	rBV	101873	93667	1.85%	0.117%
44	12.180	1711	1716	1719	rBV	209596	233470	4.61%	0.291%
45	12.216	1719	1722	1723	rBV	100564	81961	1.62%	0.102%
46	12.233	1723	1725	1728	rVB	96192	90860	1.80%	0.113%
47	12.286	1731	1734	1737	rBV	319685	335331	6.63%	0.418%
48	12.322	1737	1740	1742	rVV2	151825	157830	3.12%	0.197%
49	12.339	1742	1743	1746	rVB2	88270	67963	1.34%	0.085%
50	12.369	1746	1748	1753	rVB3	242716	264796	5.23%	0.330%
51	12.451	1757	1762	1765	rBV	3065158	3029972	59.88%	3.774%
52	12.557	1778	1780	1785	rBV3	174517	284544	5.62%	0.354%
53	12.674	1794	1800	1806	rBV	3296957	3752470	74.16%	4.674%
54	12.722	1806	1808	1814	rVB2	127019	194978	3.85%	0.243%
55	12.792	1817	1820	1821	rBV2	133117	110119	2.18%	0.137%
56	12.822	1821	1825	1828	rVV	4082800	3774286	74.59%	4.701%
57	12.892	1832	1837	1840	rBV3	253978	373102	7.37%	0.465%
58	12.980	1848	1852	1853	rBV3	187191	218451	4.32%	0.272%
59	12.998	1853	1855	1858	rVB	391075	357458	7.06%	0.445%
60	13.069	1863	1867	1869	rBV	218039	205061	4.05%	0.255%
61	13.104	1869	1873	1875	rBV	404921	376085	7.43%	0.468%
62	13.127	1875	1877	1880	rVB	75916	72378	1.43%	0.090%
63	13.192	1885	1888	1891	rBV	220436	204410	4.04%	0.255%
64	13.222	1891	1893	1897	rBV	250796	236669	4.68%	0.295%
65	13.304	1903	1907	1912	rVB4	81246	139287	2.75%	0.173%
66	13.504	1937	1941	1946	rVB	228686	258816	5.11%	0.322%
67	13.610	1955	1959	1962	rBV2	220914	310695	6.14%	0.387%
68	13.645	1962	1965	1967	rVV	307531	322323	6.37%	0.401%
69	13.663	1967	1968	1973	rVV2	228550	276130	5.46%	0.344%
70	13.710	1973	1976	1983	rVB2	274003	456342	9.02%	0.568%
71	13.863	1995	2002	2005	rBV2	2012634	3237457	63.98%	4.032%

LSC Area Percent Report

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Data File : BF113003.D
Acq On : 12 Mar 2019 15:22
Operator : JU/SJ
Sample : K1843-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GATE-SOIL-BOX

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-BF022719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.892	2005	2007	2013	rVB	1471714	1329363	26.27%	1.656%
73	13.969	2018	2020	2023	rVB	237397	185182	3.66%	0.231%
74	14.045	2031	2033	2036	rVB2	98777	98840	1.95%	0.123%
75	14.086	2036	2040	2043	rVV2	80150	101459	2.01%	0.126%
76	14.121	2043	2046	2048	rVB	79755	67696	1.34%	0.084%
77	14.216	2059	2062	2064	rVV	91600	92310	1.82%	0.115%
78	14.251	2064	2068	2071	rVV	364433	404473	7.99%	0.504%
79	14.286	2071	2074	2077	rVV	186389	199629	3.95%	0.249%
80	14.345	2077	2084	2086	rVV3	196888	368747	7.29%	0.459%
81	14.374	2086	2089	2090	rVV	181823	192263	3.80%	0.239%
82	14.392	2090	2092	2096	rVV2	169100	199584	3.94%	0.249%
83	14.445	2096	2101	2106	rVB2	126164	197452	3.90%	0.246%
84	14.545	2115	2118	2121	rBV4	110507	136980	2.71%	0.171%
85	14.645	2133	2135	2141	rVB4	105208	141852	2.80%	0.177%
86	14.710	2143	2146	2156	rVB5	93048	191904	3.79%	0.239%
87	14.786	2156	2159	2162	rBV2	71195	67358	1.33%	0.084%
88	14.874	2169	2174	2177	rBV	1285680	1949798	38.53%	2.428%
89	14.974	2187	2191	2194	rVB	229243	280044	5.53%	0.349%
90	15.157	2217	2222	2227	rVB	844345	1039493	20.54%	1.295%
91	15.216	2227	2232	2237	rBV	1205977	1404292	27.75%	1.749%
92	15.274	2237	2242	2245	rBV	1144848	1470584	29.06%	1.832%
93	15.298	2245	2246	2253	rVB3	362554	431381	8.53%	0.537%
94	15.715	2314	2317	2321	rBV2	93406	126974	2.51%	0.158%
95	16.457	2439	2443	2444	rBV2	67854	94507	1.87%	0.118%
96	16.627	2466	2472	2481	rVB2	497418	985187	19.47%	1.227%
97	16.786	2495	2499	2505	rBV	91952	166908	3.30%	0.208%
98	16.845	2505	2509	2513	rVV2	78072	119463	2.36%	0.149%
99	17.033	2535	2541	2557	rVB	411666	904544	17.88%	1.127%
100	17.245	2574	2577	2585	rVB	76300	143311	2.83%	0.178%

Sum of corrected areas: 80289630

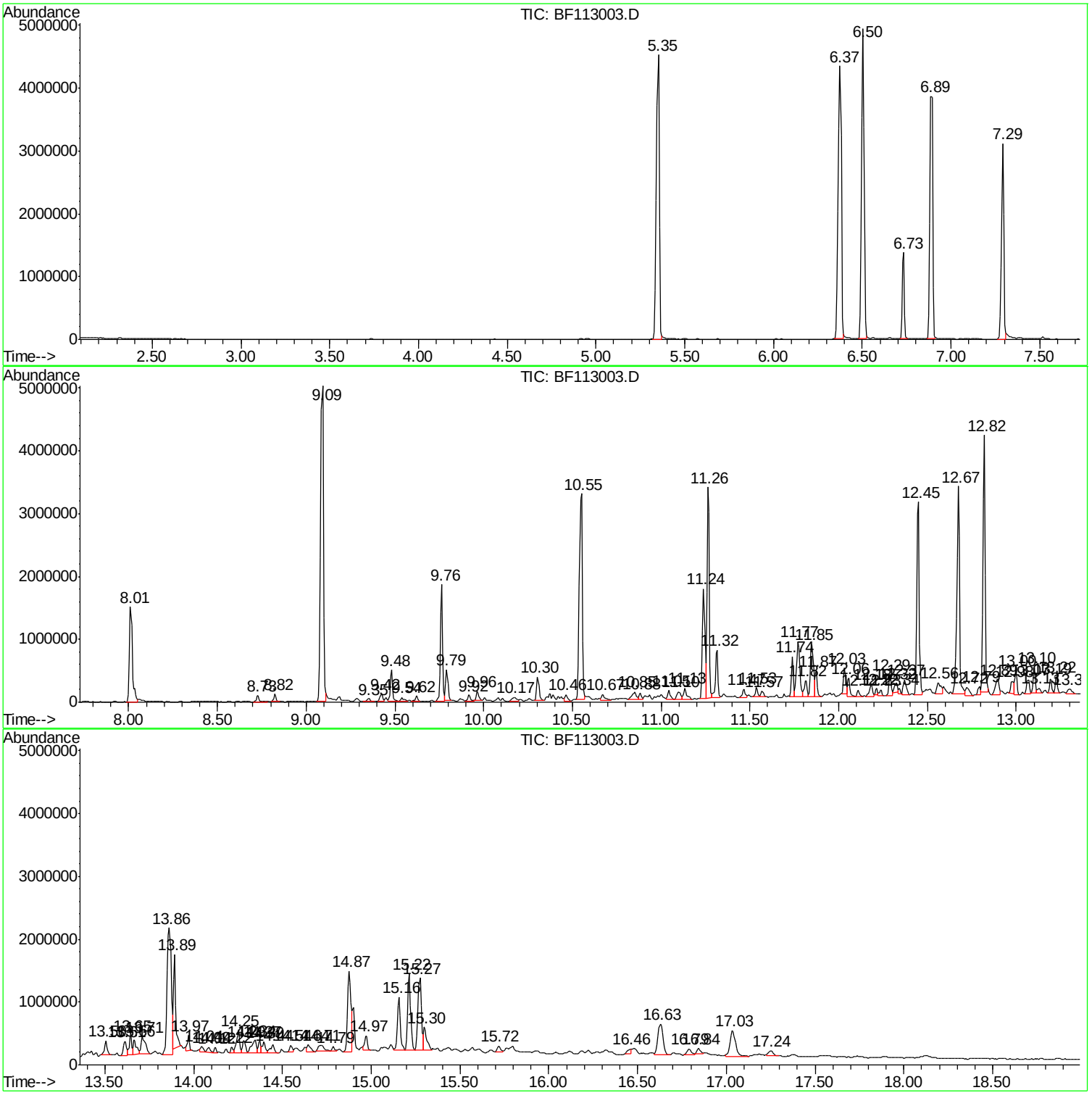
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\
Data File : BF113003.D
Acq On : 12 Mar 2019 15:22
Operator : JU/SJ
Sample : K1843-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GATE-SOIL-BOX

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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\BF031219\
Data File : BF113003.D
Acq On : 12 Mar 2019 15:22
Operator : JU/SJ
Sample : K1843-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GATE-SOIL-BOX

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

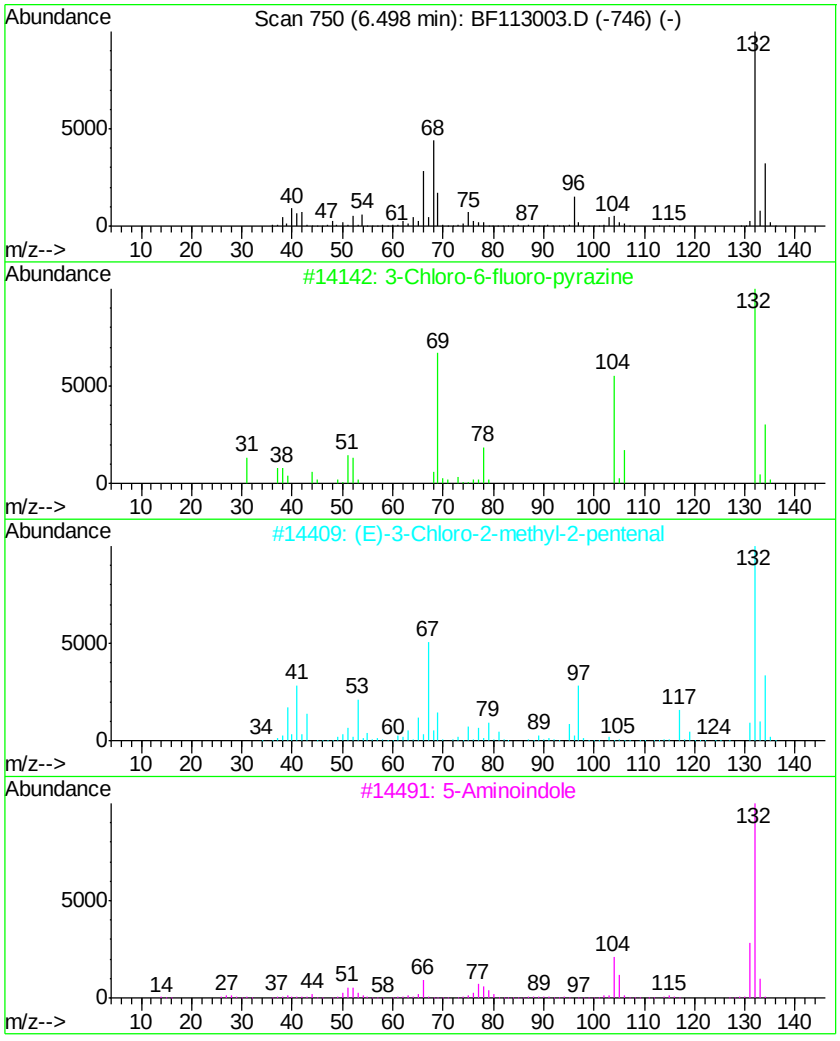
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

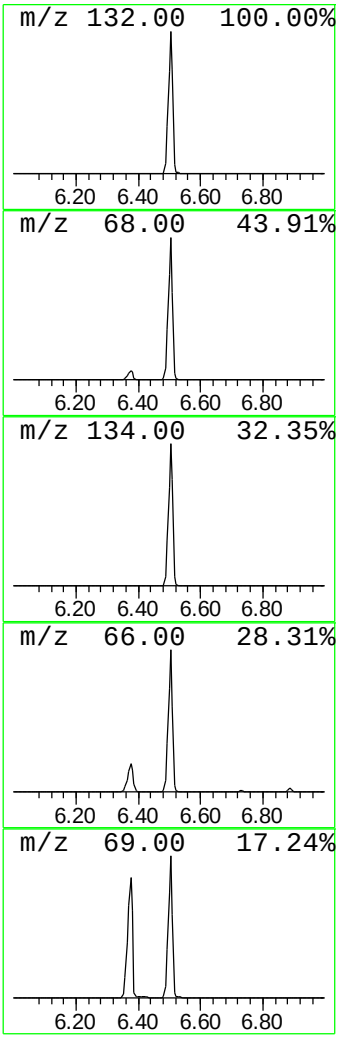
****

Peak Number 1 unknown6.50 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.50	83.48 ng	5006960	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\
Data File : BF113003.D
Acq On : 12 Mar 2019 15:22
Operator : JU/SJ
Sample : K1843-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GATE-SOIL-BOX

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

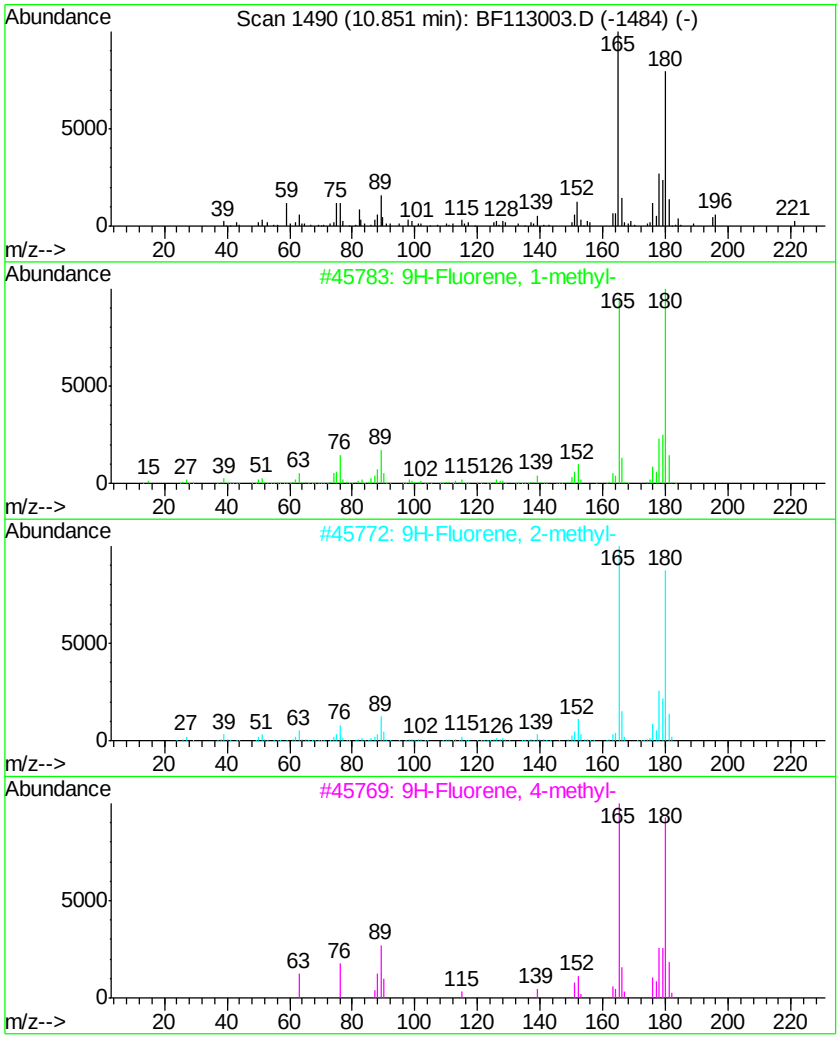
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

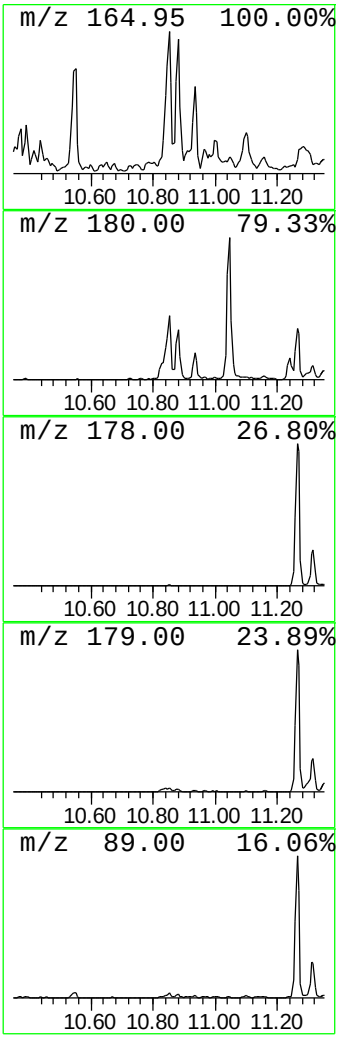
****

Peak Number 3 9H-Fluorene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.85	2.34 ng	194021	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	98
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
3	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	95
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	95
5	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\
Data File : BF113003.D
Acq On : 12 Mar 2019 15:22
Operator : JU/SJ
Sample : K1843-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GATE-SOIL-BOX

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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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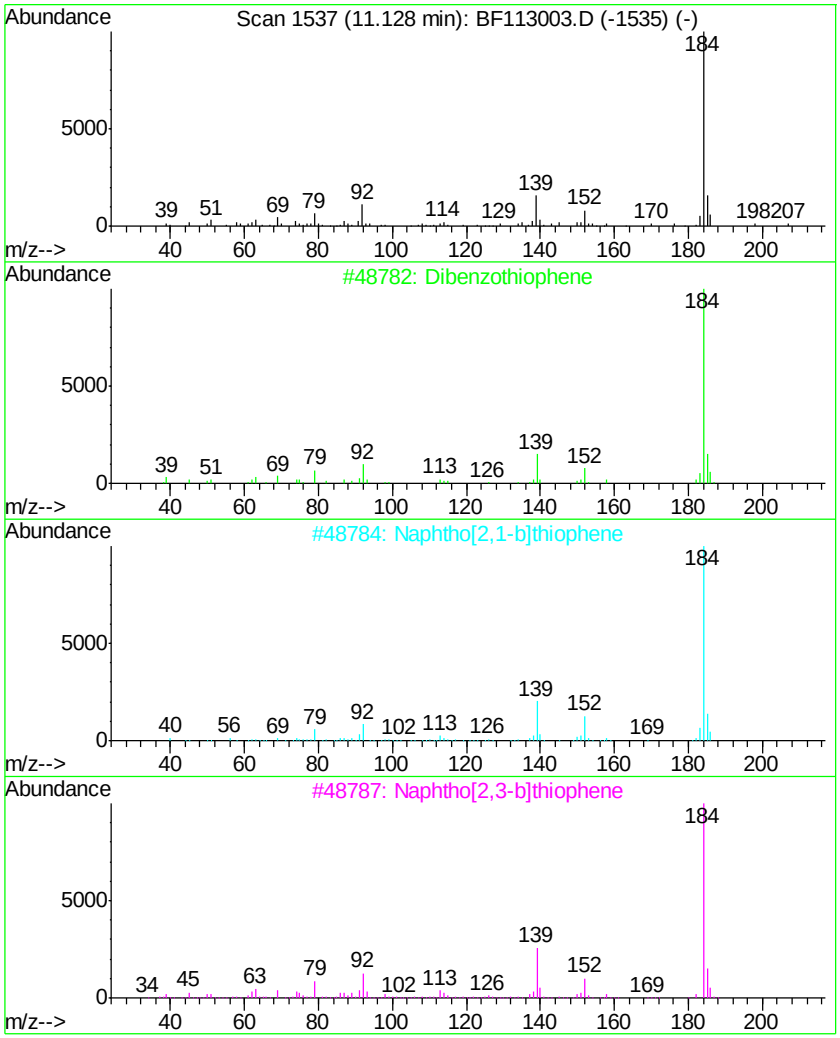
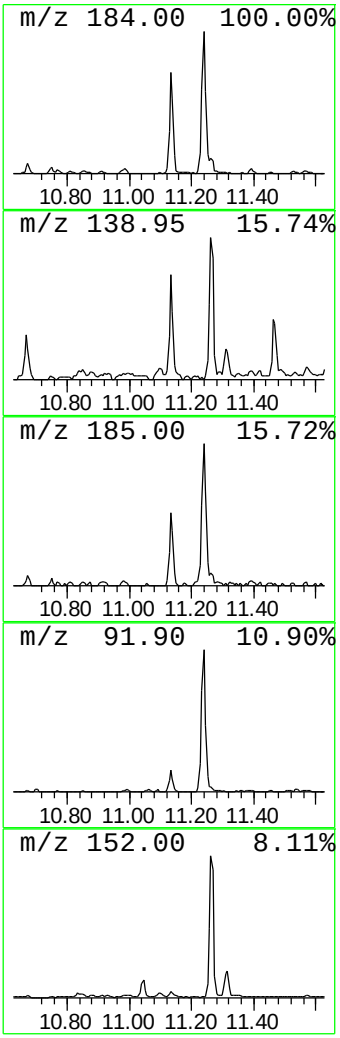
Peak Number 4 Dibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.13	2.62 ng	217292	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\
Data File : BF113003.D
Acq On : 12 Mar 2019 15:22
Operator : JU/SJ
Sample : K1843-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GATE-SOIL-BOX

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

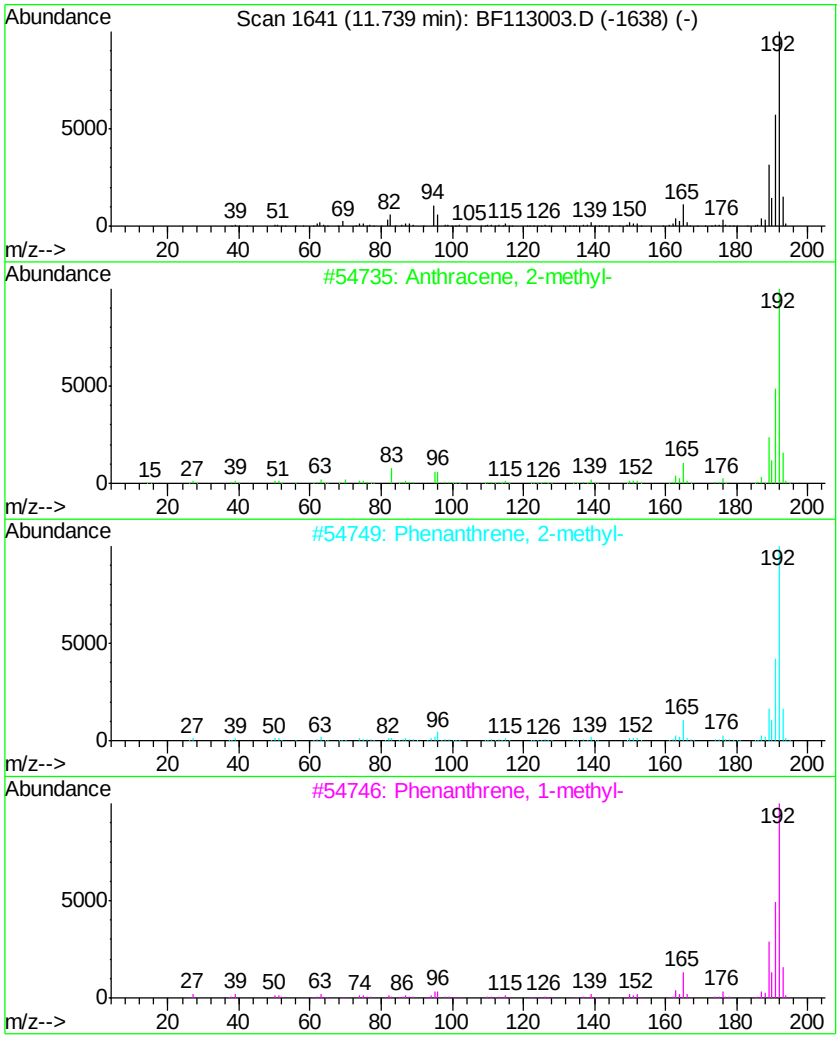
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

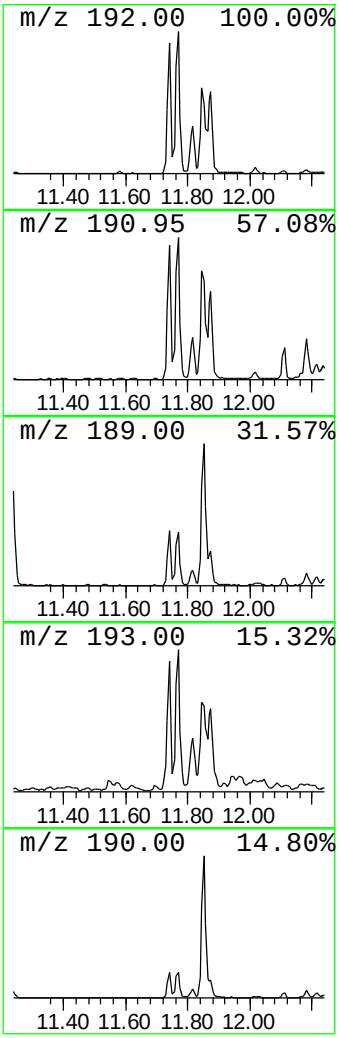
****

Peak Number 5 Anthracene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	6.19 ng	512153	Phenanthrene-d10	11.24

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	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\
Data File : BF113003.D
Acq On : 12 Mar 2019 15:22
Operator : JU/SJ
Sample : K1843-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GATE-SOIL-BOX

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

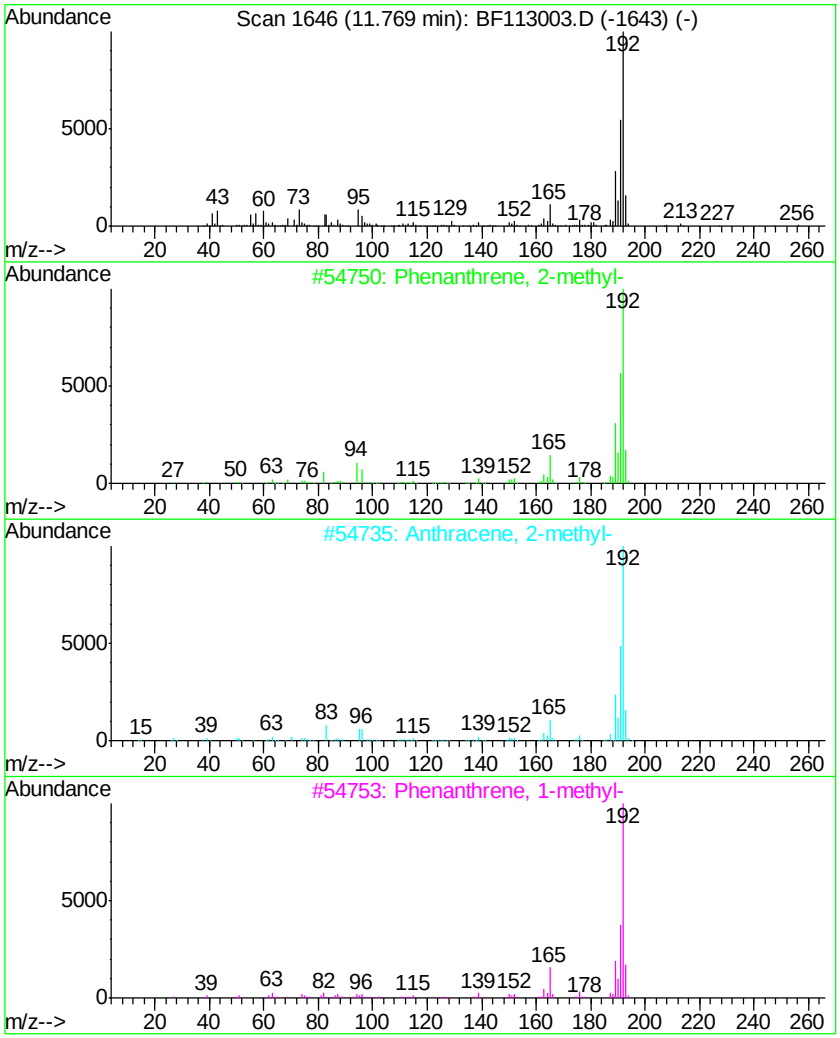
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

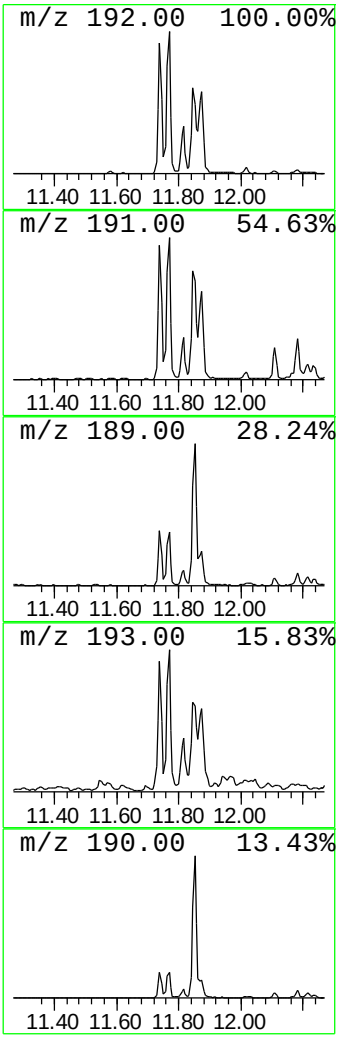
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	13.70 ng	1134030	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	95





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Sample : K1843-01
Misc :
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ClientSampleId : GATE-SOIL-BOX

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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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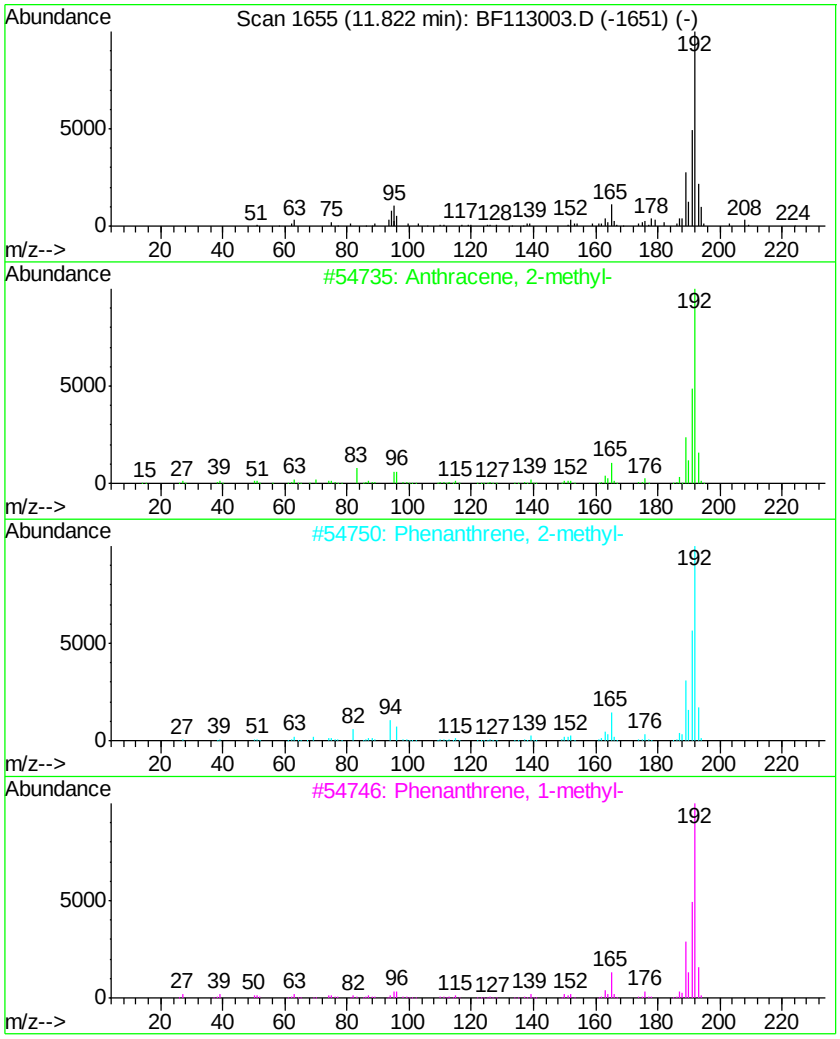
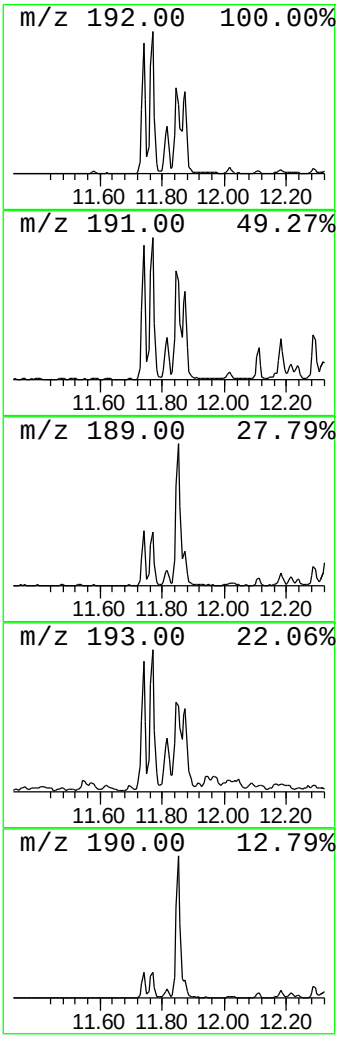
Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	3.25 ng	269094	Phenanthrene-d10	11.24

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	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
5	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	93





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

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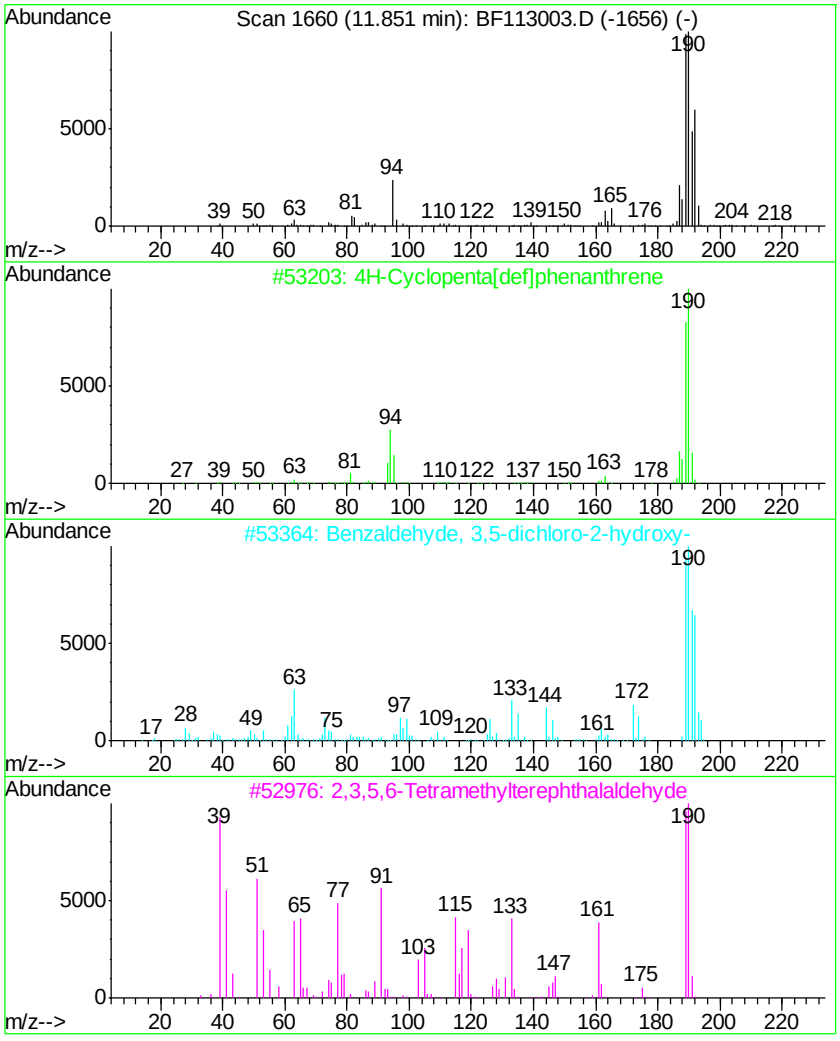
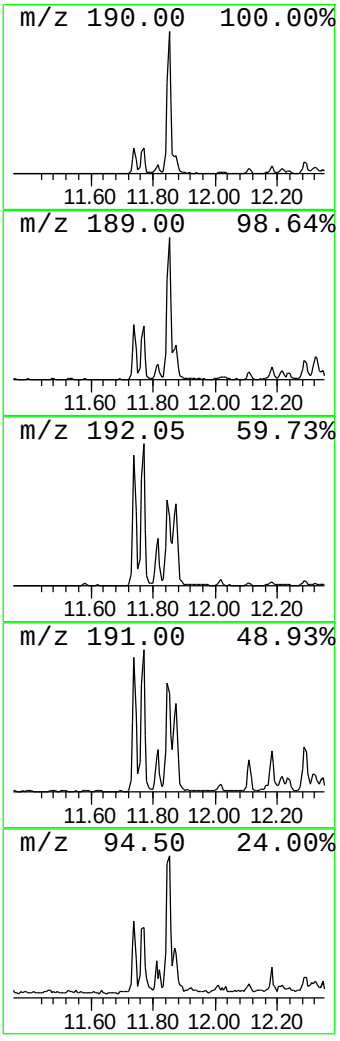
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.85	11.24 ng	930626	Phenanthrene-d10	11.24

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	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	38
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	30





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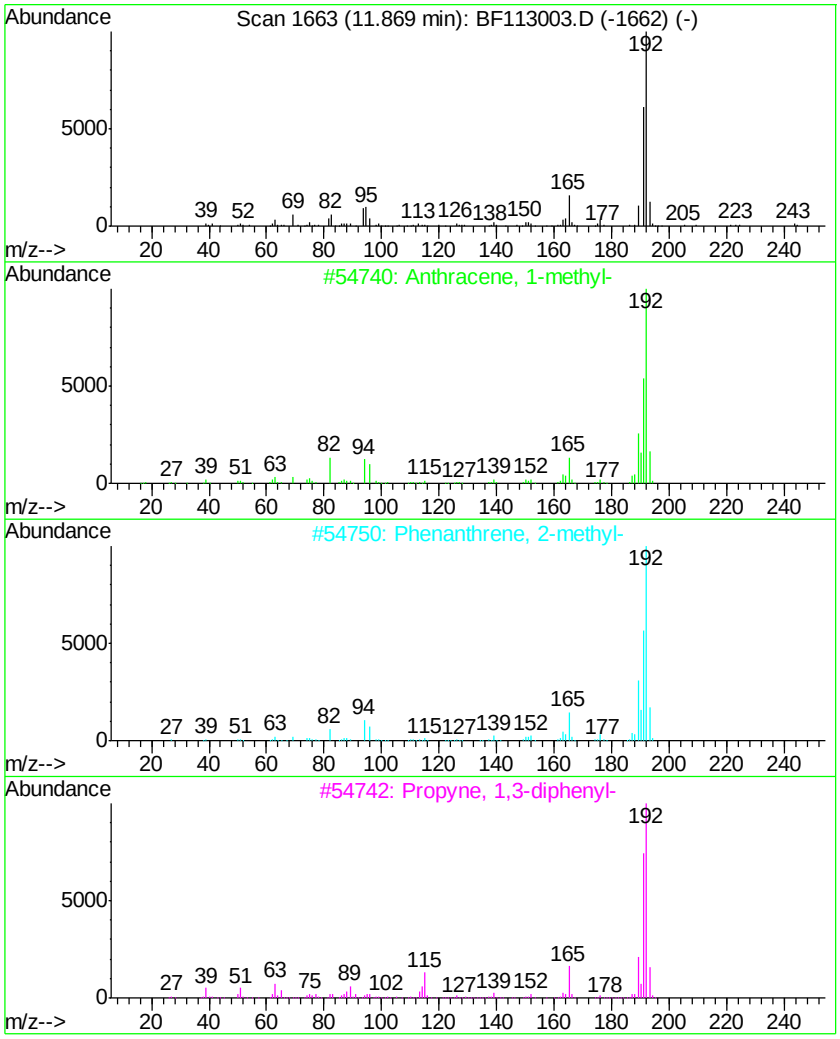
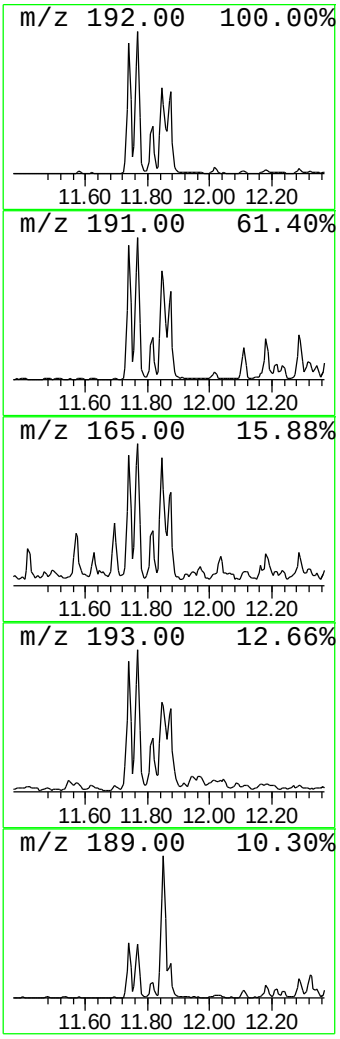
Peak Number 9 Propyne, 1,3-diphenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	4.19 ng	346628	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	87
3	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	87
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	80
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	80





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TIC Integration Parameters: LSCINT.P

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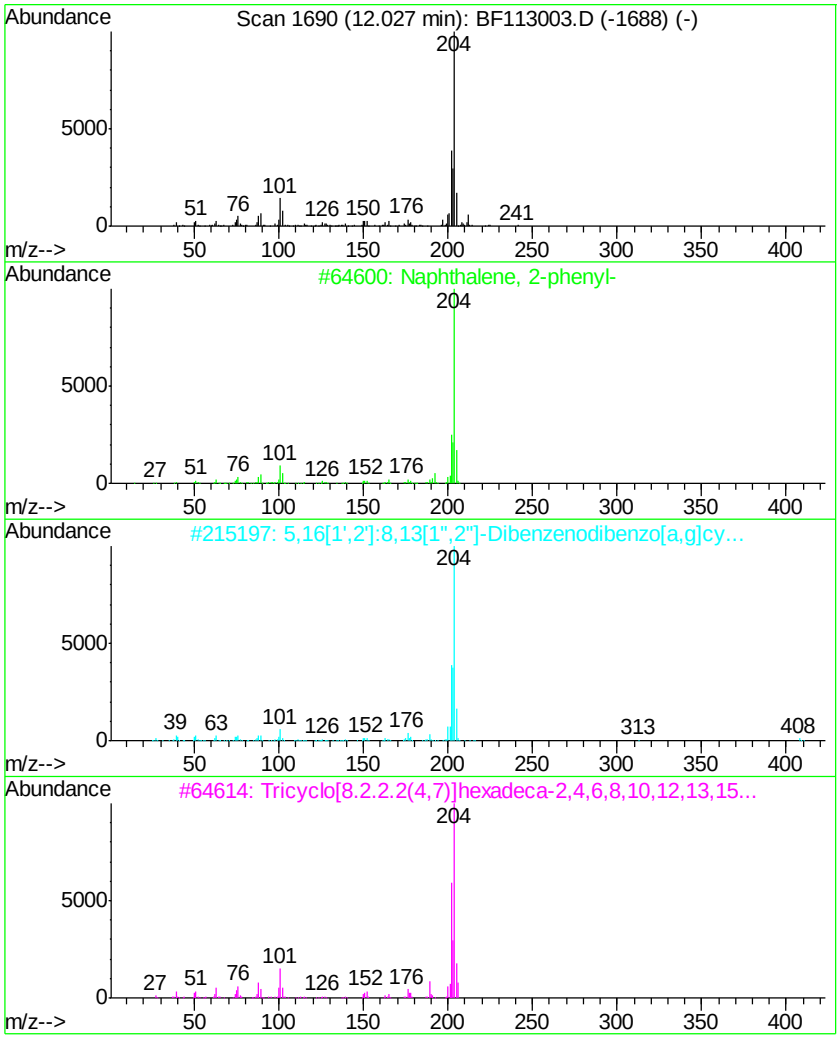
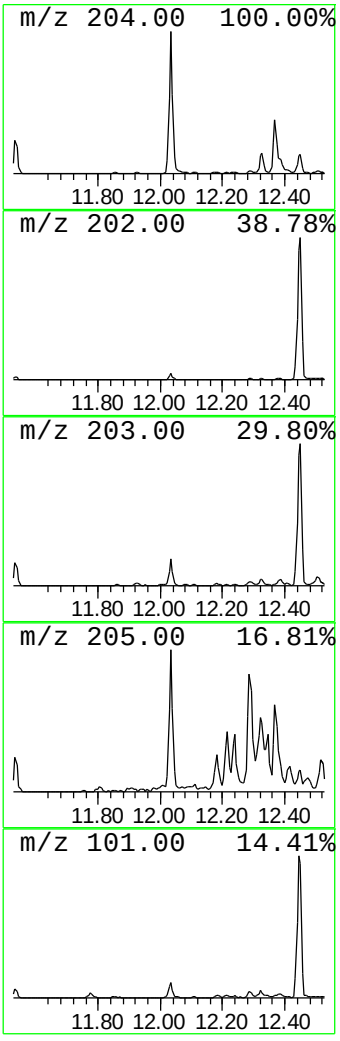
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	4.25 ng	351665	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	91
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	83
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	58





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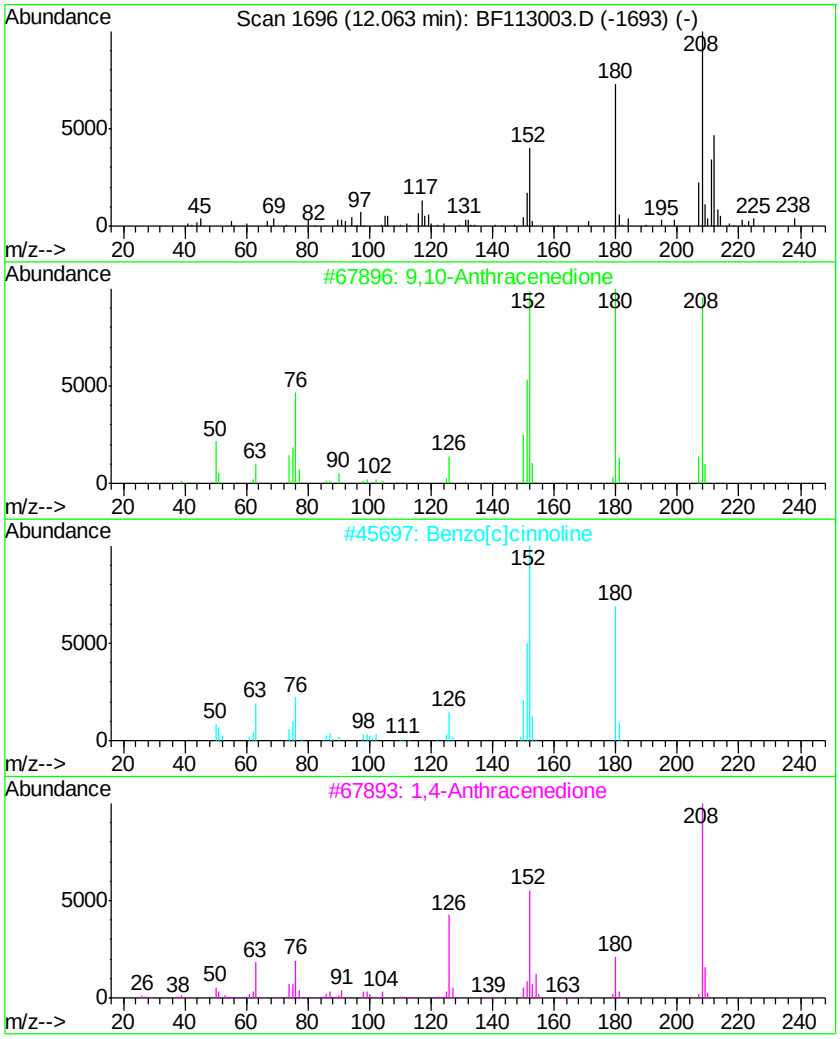
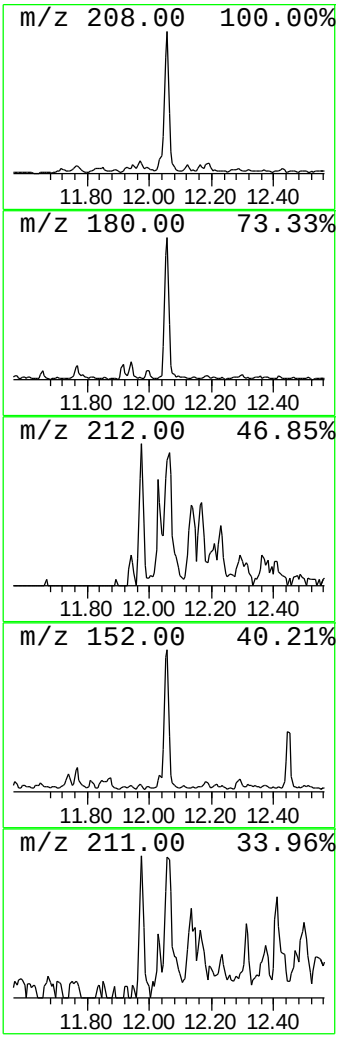
Peak Number 11 9,10-Anthracenedione Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	3.34 ng	276300	Phenanthrene-d10	11.24

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	60
3	1,4-Anthracenedione	208	C14H8O2	000635-12-1	58
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	53
5	2,5-Cyclohexadiene-1,4-dione, 2,...	208	C6H2Cl2O4	000087-88-7	50





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TIC Integration Parameters: LSCINT.P

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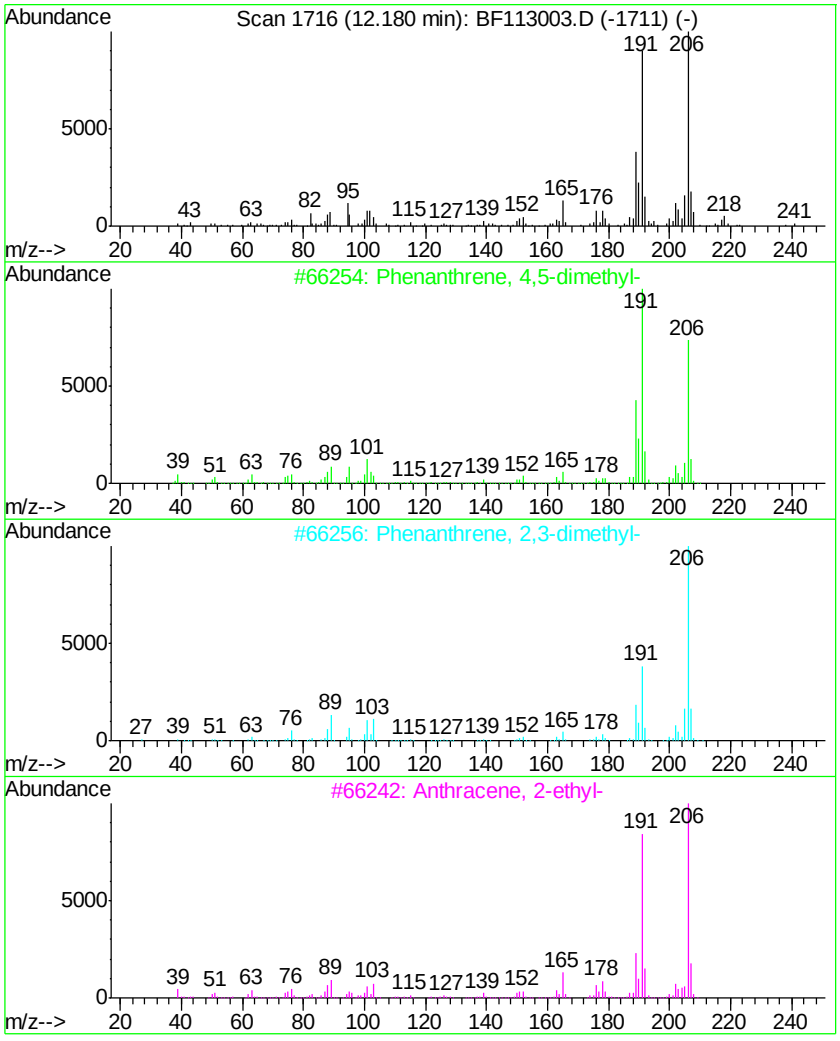
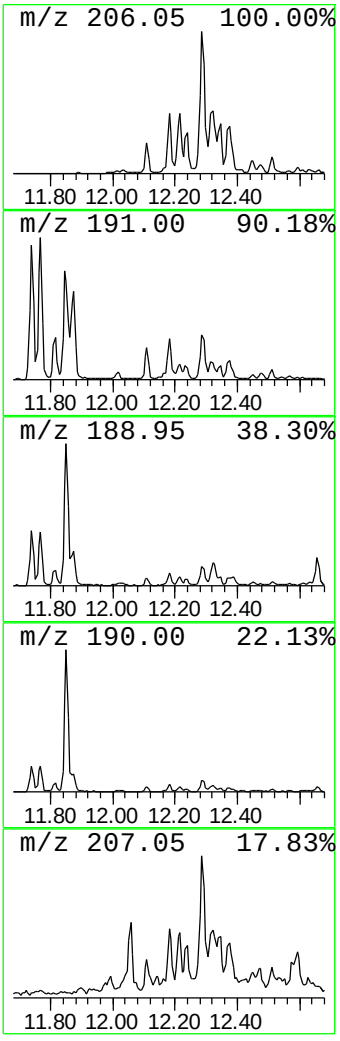
Peak Number 12 Phenanthrene, 4,5-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.18	2.82 ng	233470	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	96
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	94
3	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
4	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	89
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	87





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

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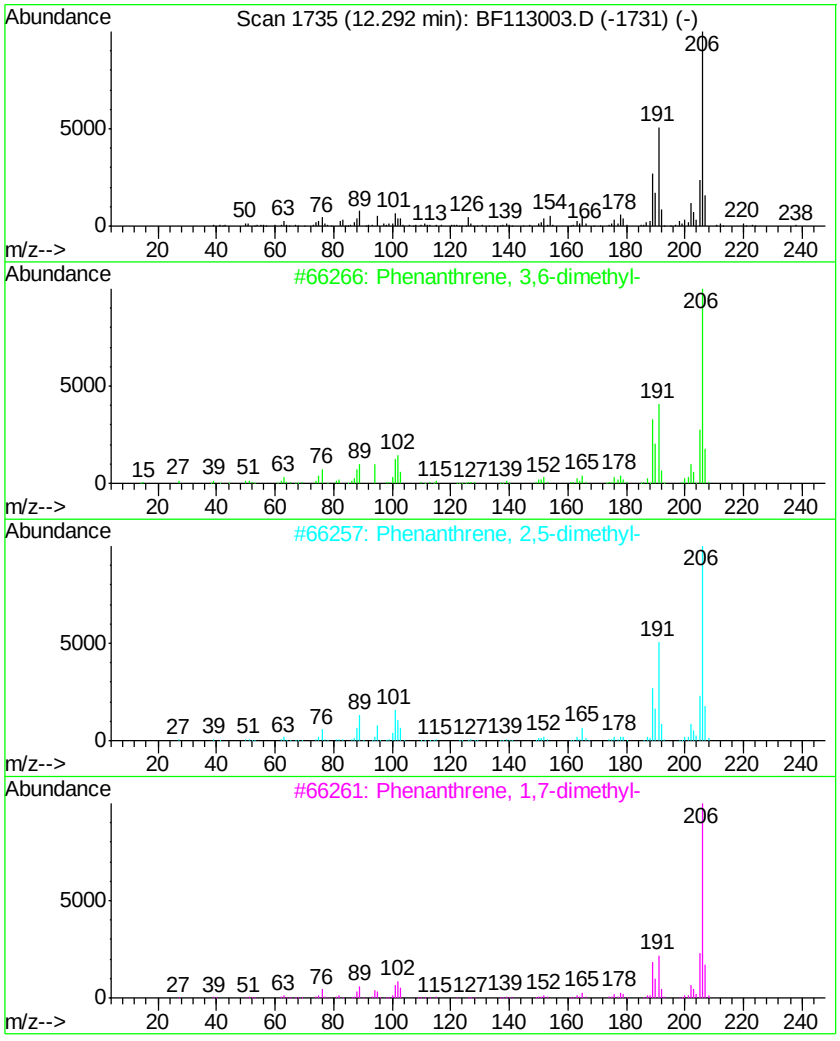
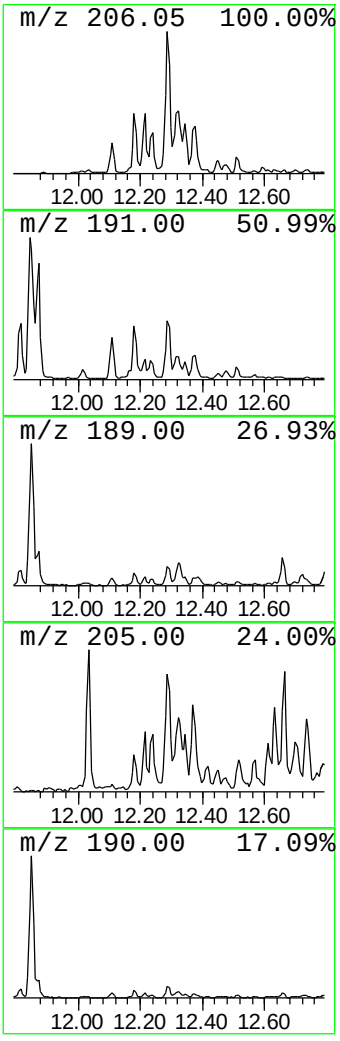
Peak Number 13 Phenanthrene, 3,6-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	4.05 ng	335331	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	95
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90





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TIC Integration Parameters: LSCINT.P

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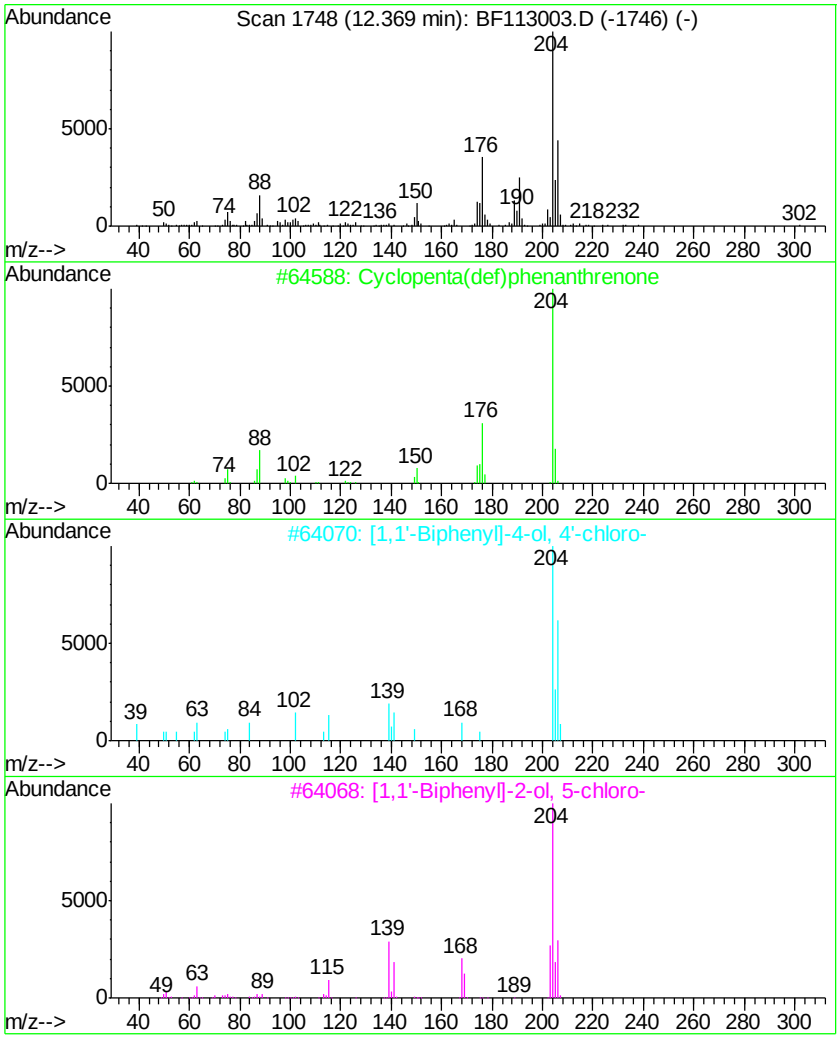
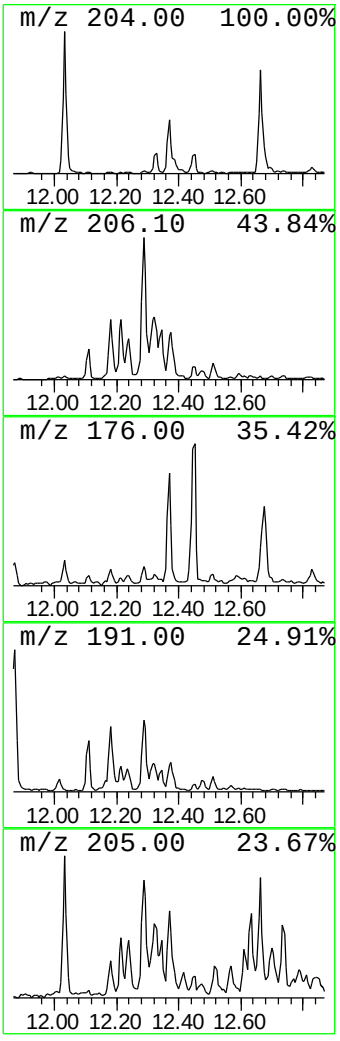
Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	3.20 ng	264796	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	49
3	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	47
4	2-Chloro-4-phenylphenol	204	C12H9ClO	000092-04-6	43
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	43





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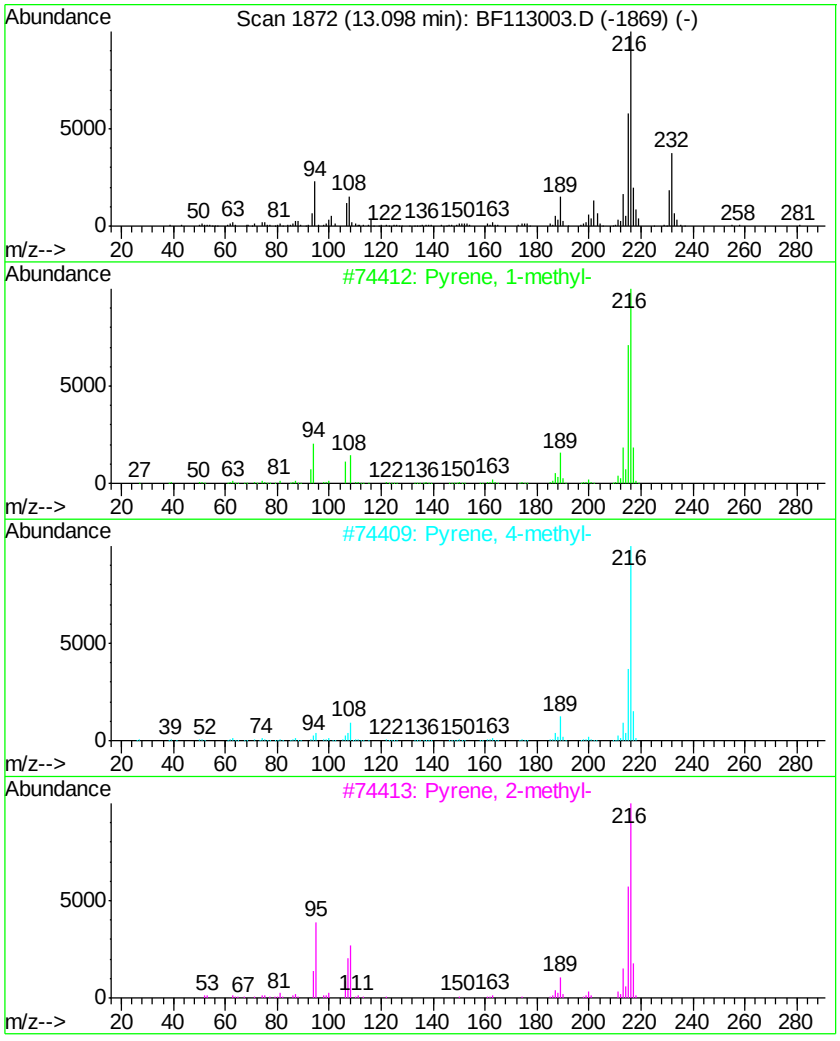
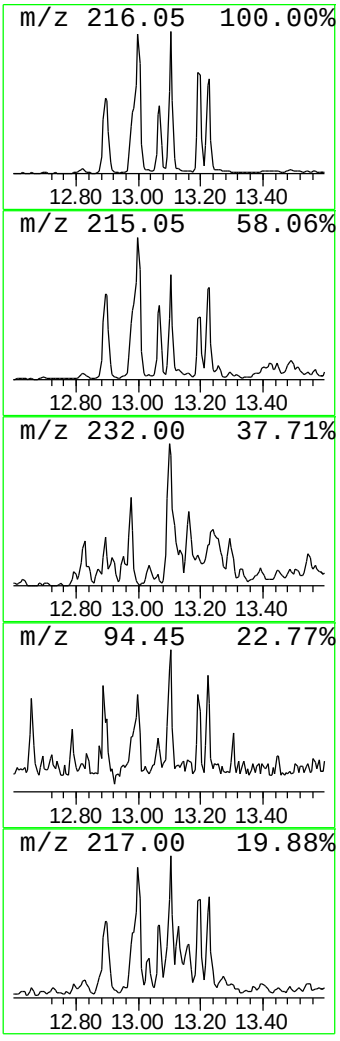
Peak Number 15 Pyrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.10	2.32 ng	376085	Chrysene-d12	13.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	92
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	89
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	86
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76





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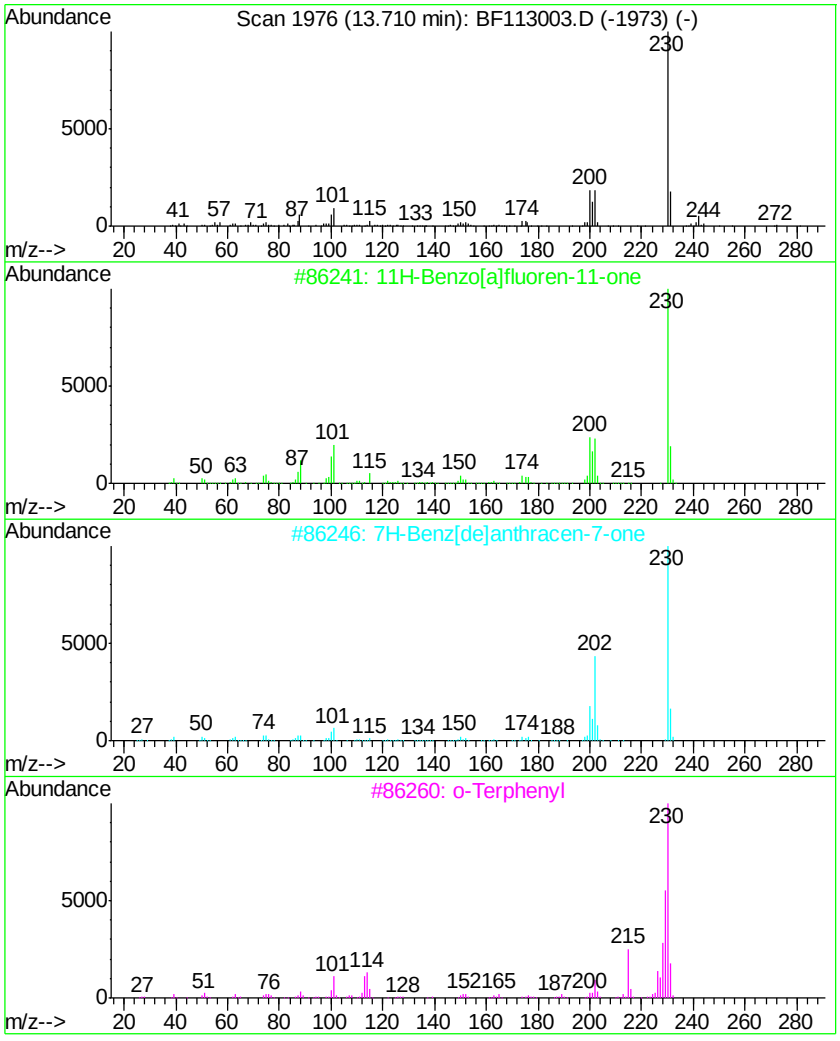
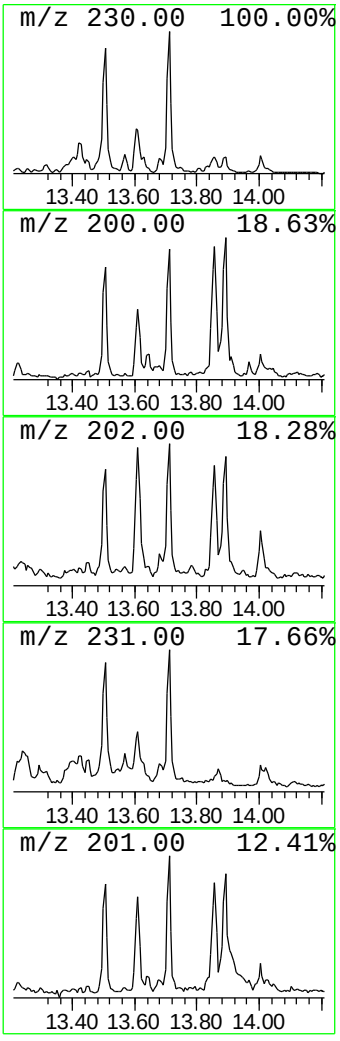
Peak Number 16 11H-Benzo[a]fluoren-11-one Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.71	2.82 ng	456342	Chrysene-d12	13.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	94
3	o-Terphenyl	230	C18H14	000084-15-1	64
4	Dibenzo[c,h][2,6]naphthyridine	230	C16H10N2	000218-30-4	59
5	5,6-Dihydrochrysene	230	C18H14	002091-92-1	59





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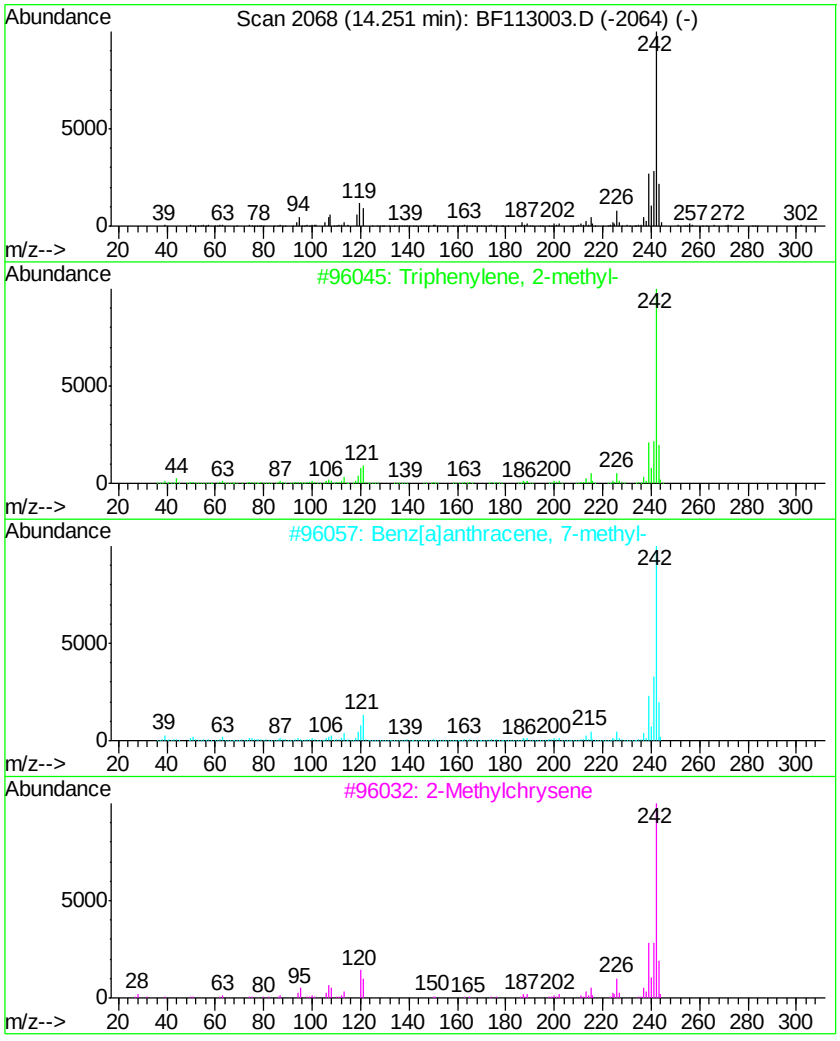
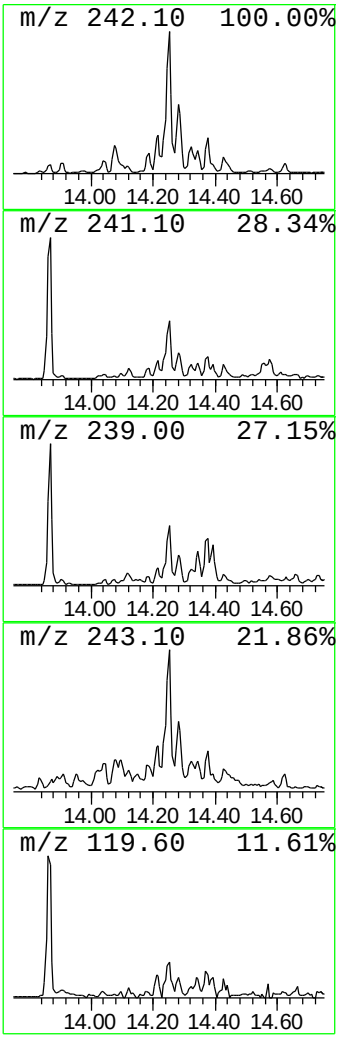
Peak Number 17 Triphenylene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.25	2.50 ng	404473	Chrysene-d12	13.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	97
2	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	95
3	2-Methylchrysene	242	C19H14	003351-32-4	95
4	Chrysene, 3-methyl-	242	C19H14	003351-31-3	94
5	Chrysene, 1-methyl-	242	C19H14	003351-28-8	94





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Instrument : BNA_F
ClientSampleId : GATE-SOIL-BOX

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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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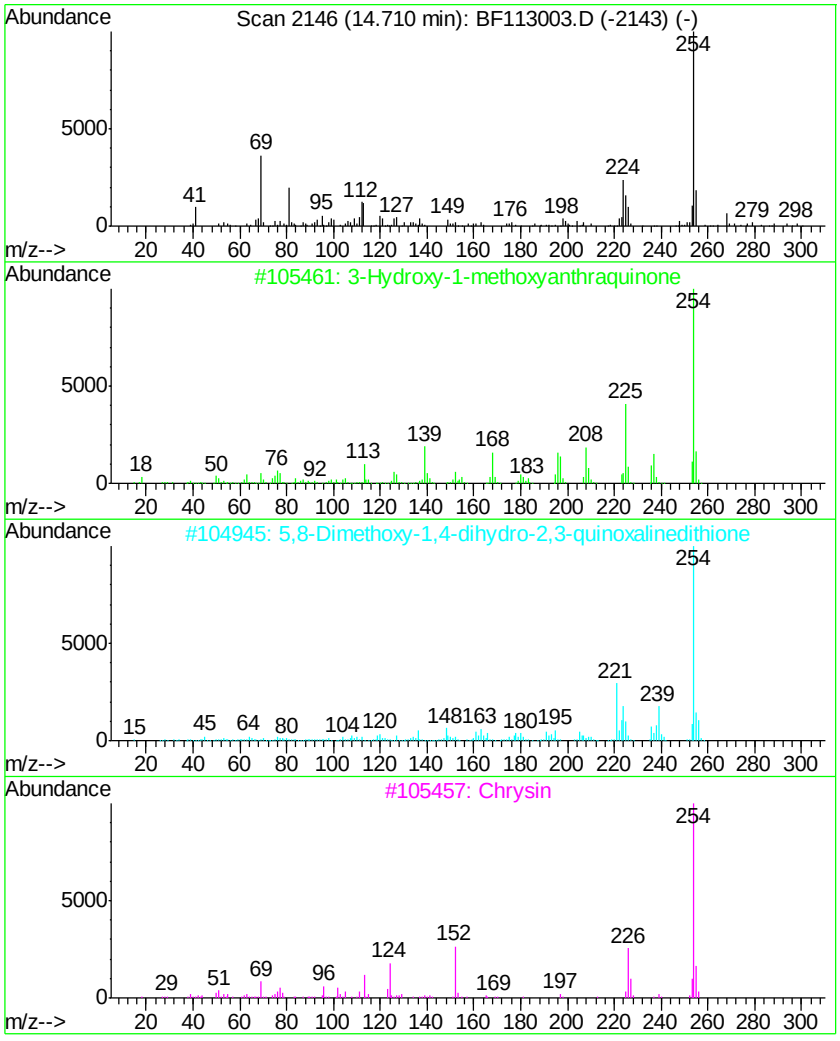
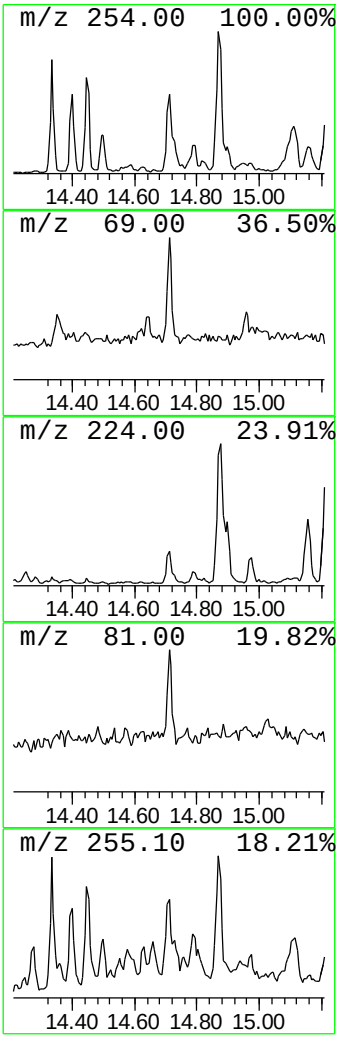
Peak Number 18 3-Hydroxy-1-methoxyanthraqu... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.71	2.61 ng	191904	Perylene-d12	15.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hydroxy-1-methoxyanthraquinone	254	C15H10O4	028504-24-7	64
2	5,8-Dimethoxy-1,4-dihydro-2,3-qu...	254	C10H10N2O2S2	001790-96-1	53
3	Chrysin	254	C15H10O4	000480-40-0	53
4	9,10-Anthracenedione, 1,8-dihydr...	254	C15H10O4	000481-74-3	50
5	Pyrrolo[3,2-g]quinoline, 9-metho...	254	C16H18N2O	199918-71-3	47





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\
Data File : BF113003.D
Acq On : 12 Mar 2019 15:22
Operator : JU/SJ
Sample : K1843-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GATE-SOIL-BOX

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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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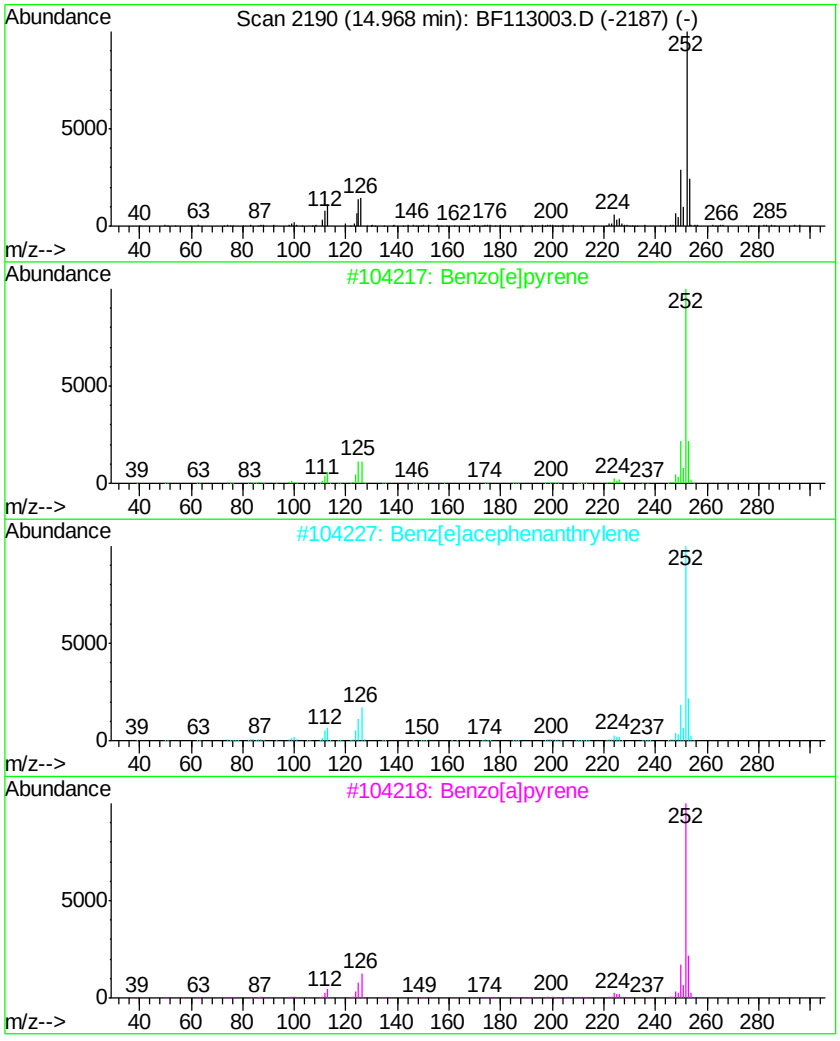
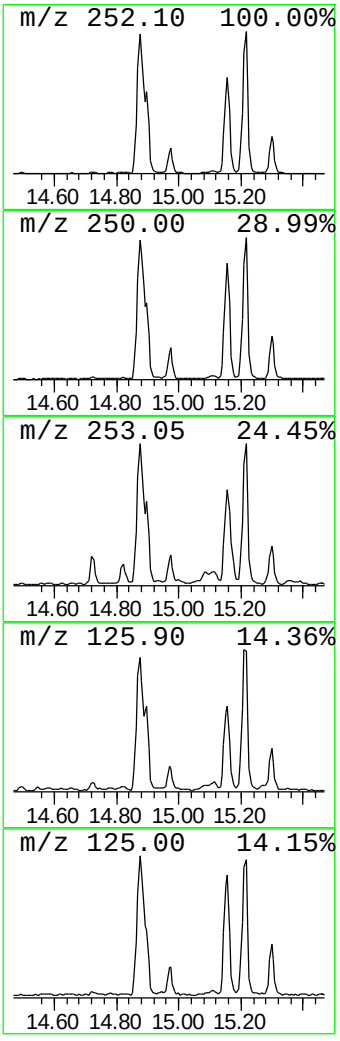
Peak Number 19 Benzo[e]pyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.97	3.81 ng	280044	Perylene-d12	15.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
3	Benzo[a]pyrene	252	C20H12	000050-32-8	91
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
5	Perylene	252	C20H12	000198-55-0	81





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031219\
Data File : BF113003.D
Acq On : 12 Mar 2019 15:22
Operator : JU/SJ
Sample : K1843-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GATE-SOIL-BOX

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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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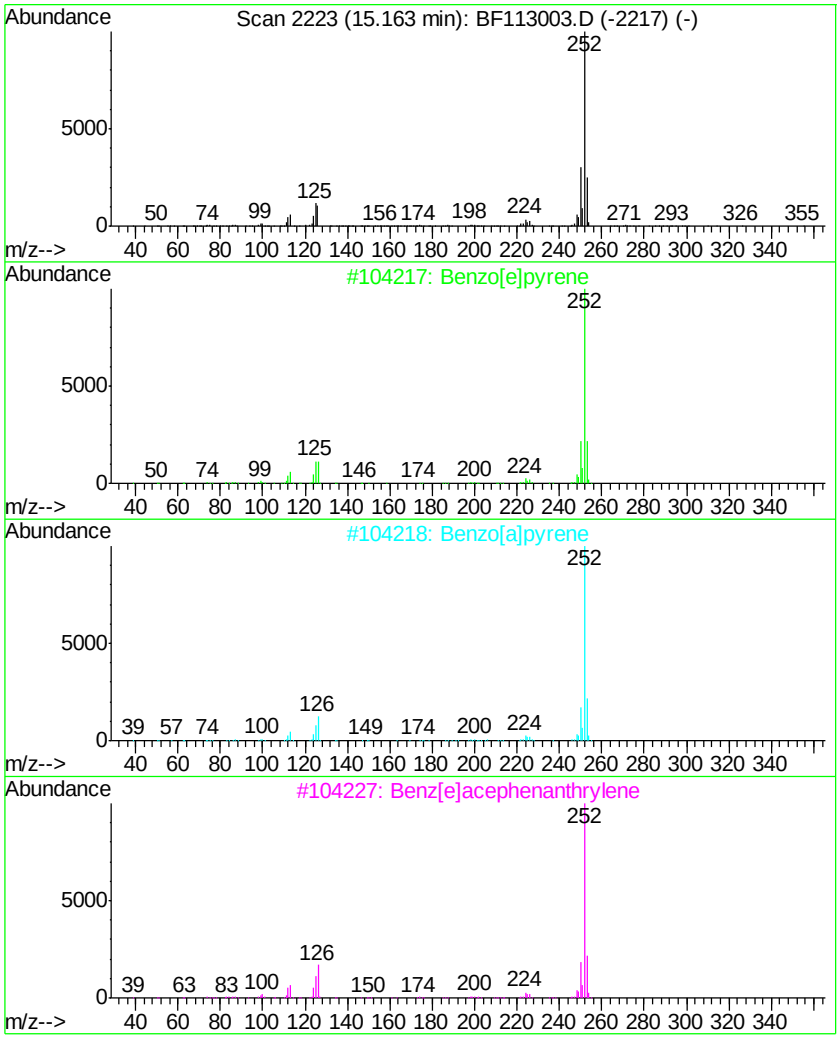
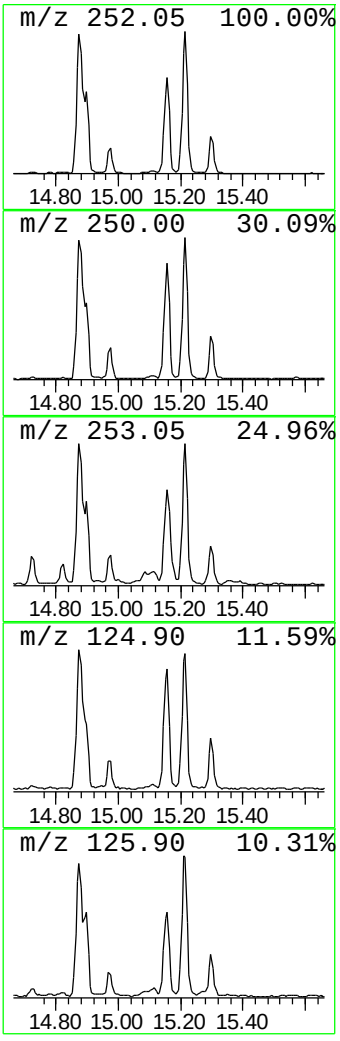
Peak Number 20 Benzo[j]fluoranthene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.16	14.14 ng	1039490	Perylene-d12	15.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benzo[a]pyrene	252	C20H12	000050-32-8	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	91
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF031219\
Data File : BF113003.D
Acq On : 12 Mar 2019 15:22
Operator : JU/SJ
Sample : K1843-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : GATE-SOIL-BOX

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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
unknown6.50	6.50	83.5	ng	5006960	1	6.73	1199620	20.0
9H-Fluorene, 1-me...	10.85	2.3	ng	194021	4	11.24	1655820	20.0
Dibenzothiophene	11.13	2.6	ng	217292	4	11.24	1655820	20.0
Anthracene, 2-met...	11.74	6.2	ng	512153	4	11.24	1655820	20.0
Phenanthrene, 2-m...	11.77	13.7	ng	1134030	4	11.24	1655820	20.0
Phenanthrene, 1-m...	11.82	3.3	ng	269094	4	11.24	1655820	20.0
4H-Cyclopenta[def...	11.85	11.2	ng	930626	4	11.24	1655820	20.0
Propyne, 1,3-diph...	11.87	4.2	ng	346628	4	11.24	1655820	20.0
Naphthalene, 2-ph...	12.03	4.3	ng	351665	4	11.24	1655820	20.0
9,10-Anthracenedione	12.06	3.3	ng	276300	4	11.24	1655820	20.0
Phenanthrene, 4,5...	12.18	2.8	ng	233470	4	11.24	1655820	20.0
Phenanthrene, 3,6...	12.29	4.0	ng	335331	4	11.24	1655820	20.0
Cyclopenta(def)ph...	12.37	3.2	ng	264796	4	11.24	1655820	20.0
Pyrene, 1-methyl-	13.10	2.3	ng	376085	5	13.87	3237460	20.0
11H-Benzo[a]fluor...	13.71	2.8	ng	456342	5	13.87	3237460	20.0
Triphenylene, 2-m...	14.25	2.5	ng	404473	5	13.87	3237460	20.0
3-Hydroxy-1-metho...	14.71	2.6	ng	191904	6	15.27	1470580	20.0
Benzo[e]pyrene	14.97	3.8	ng	280044	6	15.27	1470580	20.0
Benzo[j]fluoranthene	15.16	14.1	ng	1039490	6	15.27	1470580	20.0