LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
Data File : BF117000.D
Acq On : 12 Sep 2019 18:57
Operator : HP/JU
Sample : K4850-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7-(6)

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-BF083019.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	5.434	566	569	582	rVB	718114	713023	6.11%	0.447%
2	6.451	739	742	750	rVB	895908	769227	6.59%	0.483%
3	6.592	762	766	773	rBV	1004147	840849	7.21%	0.528%
4	6.981	828	832	834	rBV	703414	592116	5.08%	0.372%
5	7.004	834	836	843	rVB	695229	583407	5.00%	0.366%
6	7.381	898	900	906	rVB2	543809	535718	4.59%	0.336%
7	8.104	1017	1023	1024	rBV	720764	627272	5.38%	0.394%
8	8.128	1024	1027	1030	rVV	1666421	1430460	12.26%	0.898%
9	8.816	1140	1144	1148	rVB	960496	784532	6.73%	0.492%
10	8.916	1156	1161	1164	rBV	2015550	1673564	14.35%	1.050%
11	9.175	1201	1205	1208	rBV	1209422	963211	8.26%	0.604%
12	9.445	1246	1251	1254	rBV	722331	944988	8.10%	0.593%
13	9.516	1259	1263	1265	rBV	1224381	1142294	9.79%	0.717%
14	9.580	1270	1274	1279	rVB2	659903	870640	7.46%	0.546%
15	9.633	1279	1283	1288	rVB	764804	831842	7.13%	0.522%
16	9.716	1292	1297	1301	rBV	1964099	1947047	16.69%	1.222%
17	9.857	1318	1321	1322	rVV	650879	602416	5.16%	0.378%
18	9.869	1322	1323	1325	rVV	578459	550565	4.72%	0.345%
19	9.892	1325	1327	1330	rVB	1111929	866035	7.42%	0.543%
20	10.057	1353	1355	1359	rVB	828871	734894	6.30%	0.461%
21	10.098	1359	1362	1365	rBV	954849	740069	6.34%	0.464%
22	10.175	1370	1375	1377	rBV2	1021973	1182672	10.14%	0.742%
23	10.263	1386	1390	1392	rBV3	477612	713745	6.12%	0.448%
24	10.357	1401	1406	1407	rBV3	570672	585391	5.02%	0.367%
25	10.404	1411	1414	1420	rVB4	1316868	1715191	14.70%	1.076%
26	10.469	1420	1425	1427	rBV2	603497	828093	7.10%	0.520%
27	10.516	1430	1433	1437	rVB2	629896	651645	5.59%	0.409%
28	10.645	1452	1455	1458	rVB	907917	872111	7.48%	0.547%
29	10.769	1472	1476	1481	rBV2	1125435	1403001	12.03%	0.880%
30	10.951	1503	1507	1510	rVV2	1061108	1511478	12.96%	0.948%
31	10.980	1510	1512	1515	rVV	885576	869638	7.46%	0.546%
32	11.033	1519	1521	1524	rVV	870278	803866	6.89%	0.504%
33	11.086	1524	1530	1531	rVV4	548982	758500	6.50%	0.476%
34	11.104	1531	1533	1538	rVV3	655431	817708	7.01%	0.513%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
Data File : BF117000.D
Acq On : 12 Sep 2019 18:57
Operator : HP/JU
Sample : K4850-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7-(6)

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-BF083019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.151	1538	1541	1544	rVV2	440637	557726	4.78%	0.350%
36	11.192	1545	1548	1553	rVV4	353126	707701	6.07%	0.444%
37	11.239	1553	1556	1561	rVB2	684187	737641	6.32%	0.463%
38	11.339	1571	1573	1575	rBV	514266	527925	4.53%	0.331%
39	11.374	1575	1579	1582	rVV	3289727	3145090	26.96%	1.974%
40	11.422	1584	1587	1589	rBV	1408854	1135496	9.73%	0.713%
41	11.457	1589	1593	1595	rBV2	752959	963376	8.26%	0.605%
42	11.639	1621	1624	1626	rVB	758340	686226	5.88%	0.431%
43	11.674	1626	1630	1633	rBV2	862487	841302	7.21%	0.528%
44	11.851	1656	1660	1662	rBV	2357001	2322964	19.91%	1.458%
45	11.880	1662	1665	1668	rVB	2764521	2540338	21.78%	1.594%
46	11.927	1669	1673	1676	rBV	1062069	1265916	10.85%	0.794%
47	11.969	1676	1680	1682	rVV	4592257	5455716	46.77%	3.423%
48	11.992	1682	1684	1688	rVB	2395094	1830551	15.69%	1.149%
49	12.139	1706	1709	1711	rVV	1135006	1070444	9.18%	0.672%
50	12.174	1713	1715	1720	rVB3	697100	720538	6.18%	0.452%
51	12.286	1732	1734	1737	rVV	856013	917480	7.87%	0.576%
52	12.327	1737	1741	1743	rVV	1467065	1611832	13.82%	1.011%
53	12.351	1743	1745	1748	rVB	1088234	869526	7.45%	0.546%
54	12.404	1748	1754	1757	rBV	2809631	4002433	34.31%	2.512%
55	12.445	1757	1761	1763	rVV2	2282226	3278008	28.10%	2.057%
56	12.504	1766	1771	1774	rVV3	1629869	2419340	20.74%	1.518%
57	12.580	1778	1784	1786	rBV	4830773	6765912	58.00%	4.246%
58	12.627	1790	1792	1795	rVB	663034	543803	4.66%	0.341%
59	12.663	1795	1798	1801	rVB	1640316	1426014	12.22%	0.895%
60	12.816	1816	1824	1827	rBV	6409912	11664799	100.00%	7.320%
61	12.851	1827	1830	1833	rVB2	1173478	1194628	10.24%	0.750%
62	12.904	1833	1839	1841	rBV3	654374	1170227	10.03%	0.734%
63	12.927	1841	1843	1845	rVV2	855076	649375	5.57%	0.407%
64	12.951	1845	1847	1851	rVB	738596	734335	6.30%	0.461%
65	13.016	1853	1858	1864	rBV4	1843215	3069155	26.31%	1.926%
66	13.063	1864	1866	1869	rBV2	511770	581877	4.99%	0.365%
67	13.104	1869	1873	1874	rBV2	1496317	1891200	16.21%	1.187%
68	13.127	1874	1877	1880	rVB	2523853	3011987	25.82%	1.890%
69	13.192	1885	1888	1891	rVB	1479445	1467864	12.58%	0.921%
70	13.239	1891	1896	1902	rVB	2710351	3215611	27.57%	2.018%
71	13.327	1906	1911	1913	rBV	2308829	2476706	21.23%	1.554%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
Data File : BF117000.D
Acq On : 12 Sep 2019 18:57
Operator : HP/JU
Sample : K4850-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7-(6)

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-BF083019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.357	1913	1916	1918	rVB	2301883	2068541	17.73%	1.298%
73	13.492	1932	1939	1941	rBV2	497295	1061049	9.10%	0.666%
74	13.521	1941	1944	1946	rBV2	541121	616342	5.28%	0.387%
75	13.604	1954	1958	1960	rBV2	567519	841071	7.21%	0.528%
76	13.633	1960	1963	1967	rVB2	1181255	1317990	11.30%	0.827%
77	13.739	1975	1981	1983	rBV4	1045217	1813783	15.55%	1.138%
78	13.768	1983	1986	1988	rVB2	1424739	1435398	12.31%	0.901%
79	13.798	1988	1991	1993	rBV2	795607	809948	6.94%	0.508%
80	13.992	2017	2024	2027	rBV	3775073	6796547	58.27%	4.265%
81	14.033	2027	2031	2036	rVV	4201658	5545535	47.54%	3.480%
82	14.074	2036	2038	2041	rVV	612013	622920	5.34%	0.391%
83	14.145	2046	2050	2055	rVV3	1359132	2168177	18.59%	1.361%
84	14.339	2080	2083	2085	rBV	587049	639592	5.48%	0.401%
85	14.386	2085	2091	2093	rBV	2209121	2733808	23.44%	1.715%
86	14.415	2093	2096	2098	rVB	1441426	1260097	10.80%	0.791%
87	14.457	2098	2103	2105	rBV3	718838	993925	8.52%	0.624%
88	14.510	2109	2112	2114	rBV2	1282682	1483573	12.72%	0.931%
89	14.568	2119	2122	2125	rVV	737067	730971	6.27%	0.459%
90	14.721	2142	2148	2151	rVB3	437972	915002	7.84%	0.574%
91	14.868	2170	2173	2176	rBV2	493583	535413	4.59%	0.336%
92	15.039	2194	2202	2205	rBV2	2009145	4200513	36.01%	2.636%
93	15.133	2214	2218	2222	rBV	707618	854113	7.32%	0.536%
94	15.333	2246	2252	2256	rVB	1601210	2334208	20.01%	1.465%
95	15.409	2257	2265	2268	rBV2	2189763	3691765	31.65%	2.317%
96	15.486	2274	2278	2284	rVB2	529402	901833	7.73%	0.566%
97	15.621	2295	2301	2304	rBV	341387	704086	6.04%	0.442%
98	15.798	2328	2331	2337	rVB2	428899	597760	5.12%	0.375%
99	16.898	2510	2518	2524	rVV	650346	1436805	12.32%	0.902%
100	17.345	2585	2594	2601	rVB	549253	1323665	11.35%	0.831%

Sum of corrected areas: 159362700

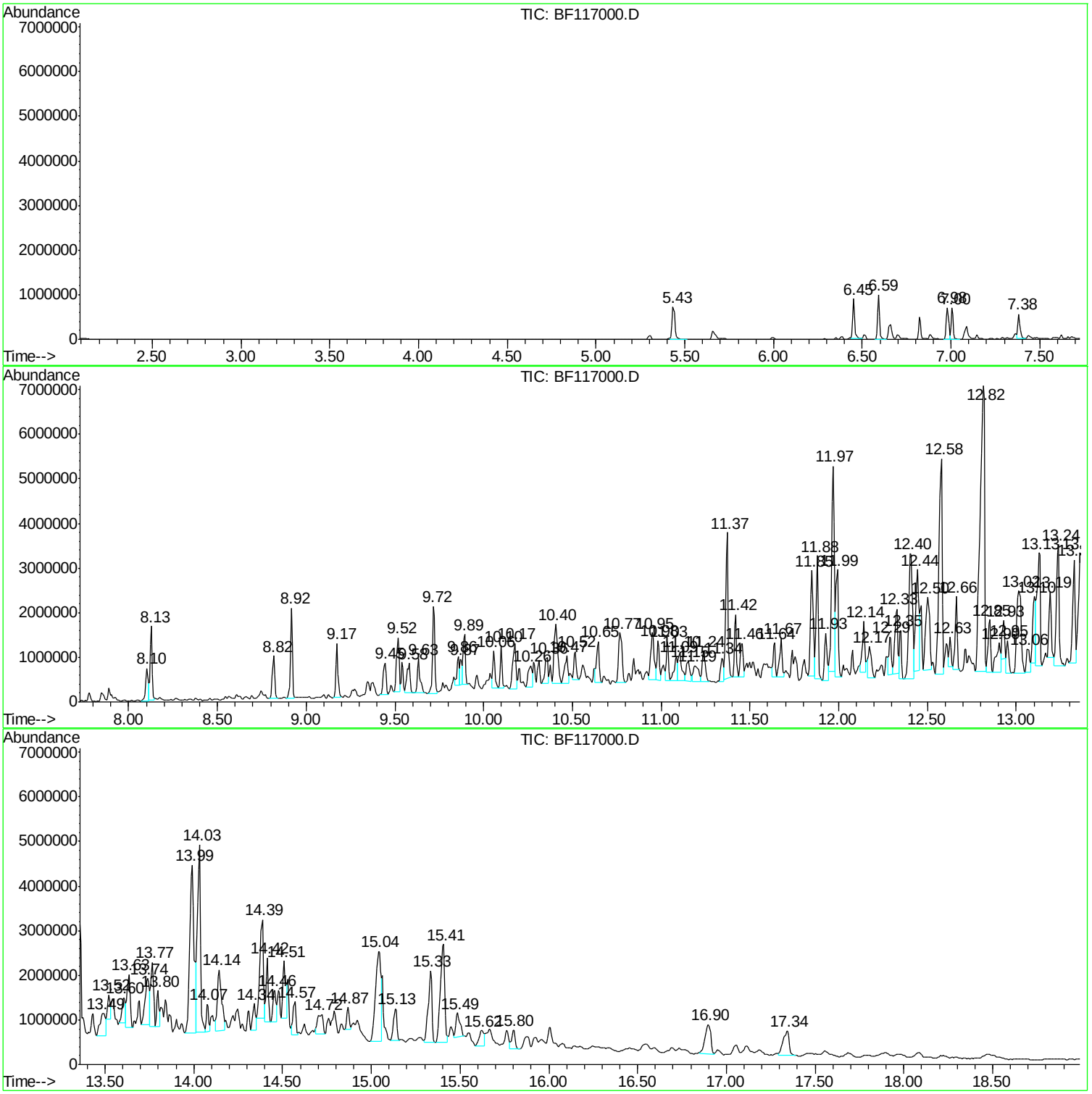
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
Data File : BF117000.D
Acq On : 12 Sep 2019 18:57
Operator : HP/JU
Sample : K4850-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7-(6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.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\BF091219\
Data File : BF117000.D
Acq On : 12 Sep 2019 18:57
Operator : HP/JU
Sample : K4850-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7-(6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

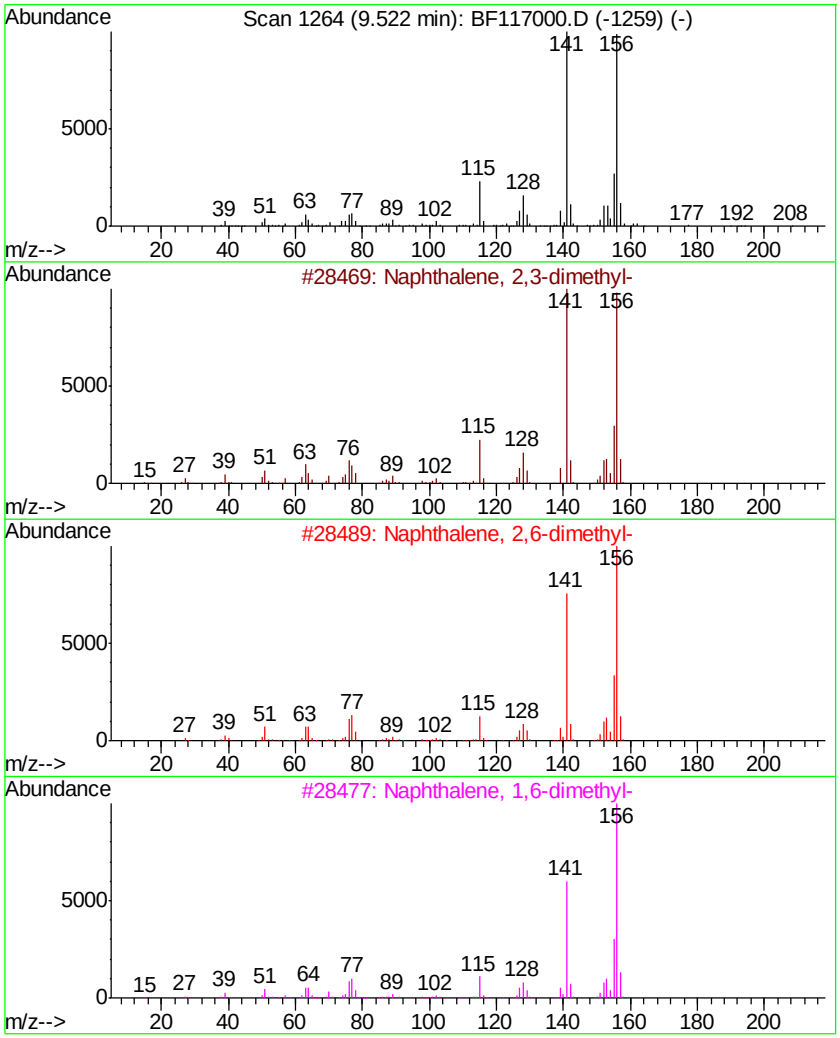
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

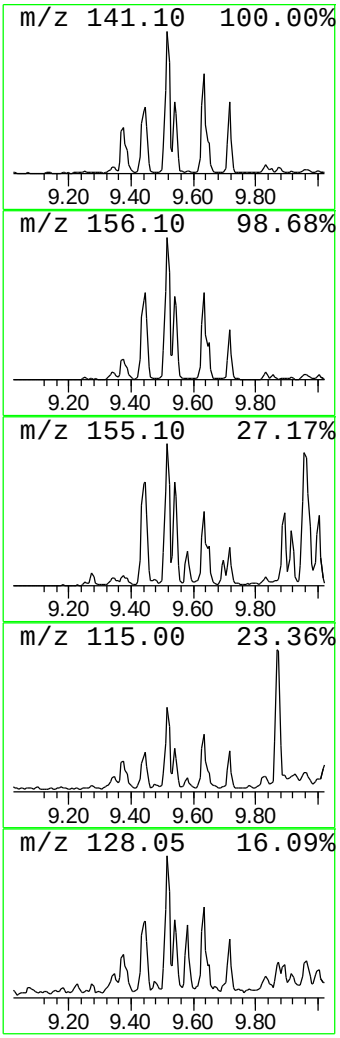
****

Peak Number 1 Naphthalene, 2,3-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.52	37.92 ng	1142290	Acenaphthene-d10	9.86

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, 1,6-dimethyl-	156	C12H12	000575-43-9	97
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
Data File : BF117000.D
Acq On : 12 Sep 2019 18:57
Operator : HP/JU
Sample : K4850-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7-(6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

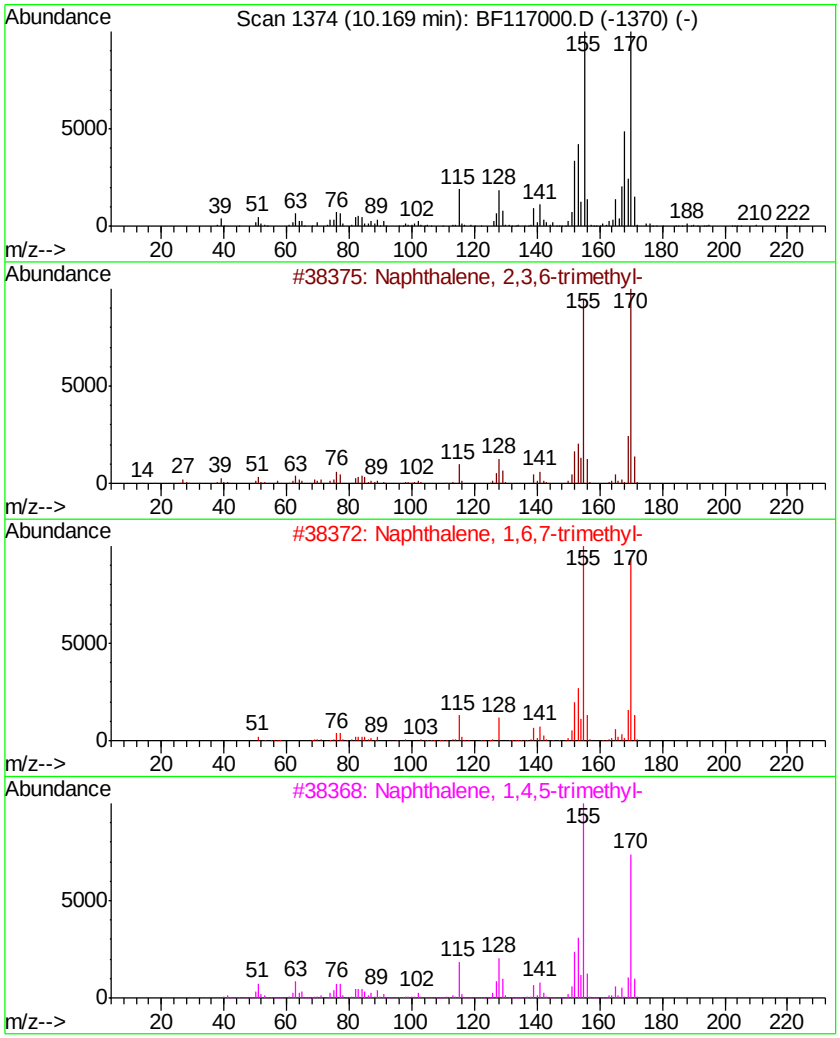
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

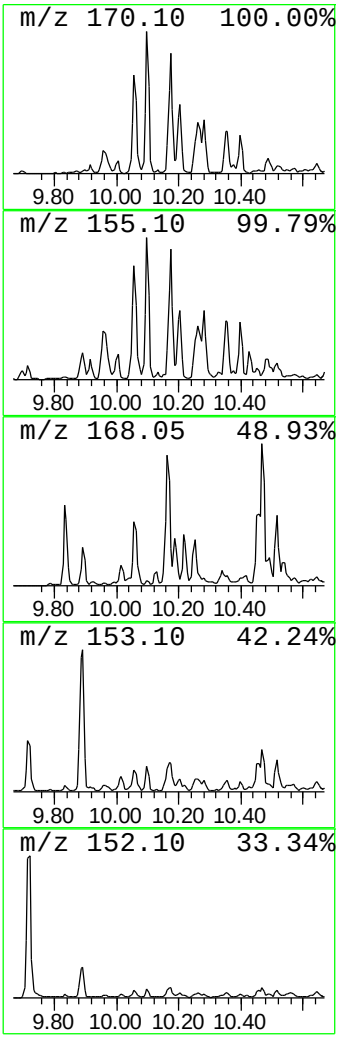
****

Peak Number 2 Naphthalene, 2,3,6-trimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.17	39.26 ng	1182670	Acenaphthene-d10	9.86

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





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
Data File : BF117000.D
Acq On : 12 Sep 2019 18:57
Operator : HP/JU
Sample : K4850-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7-(6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.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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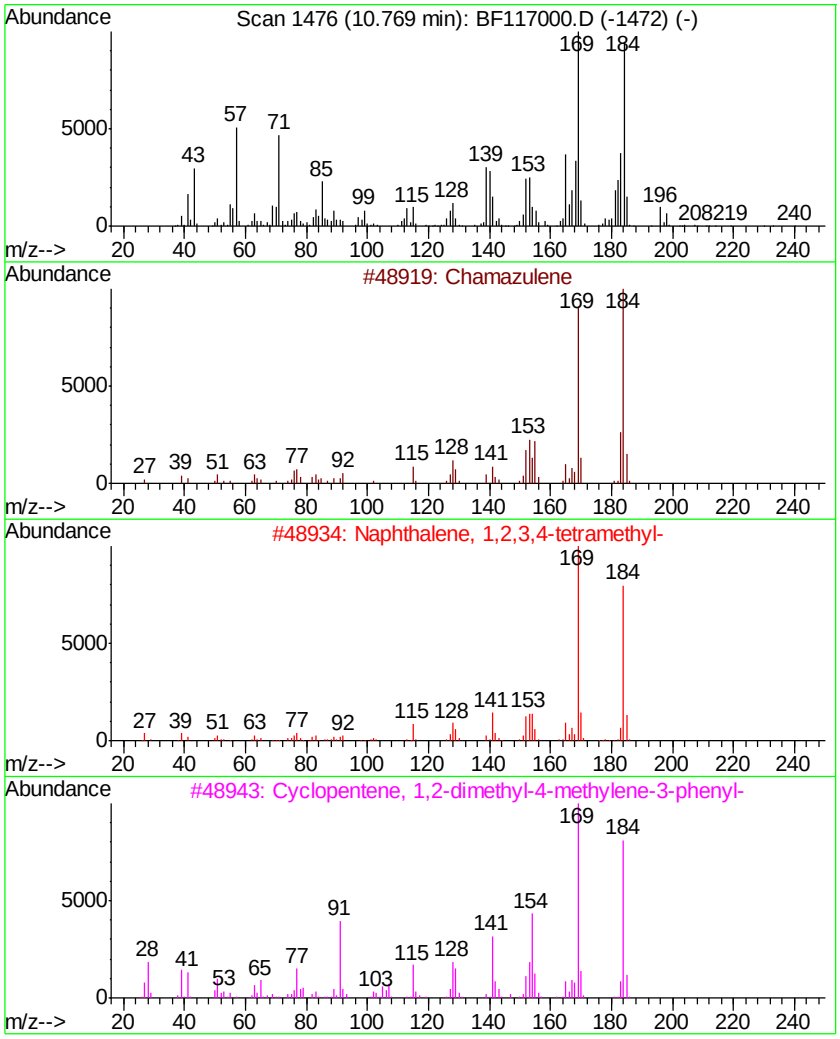
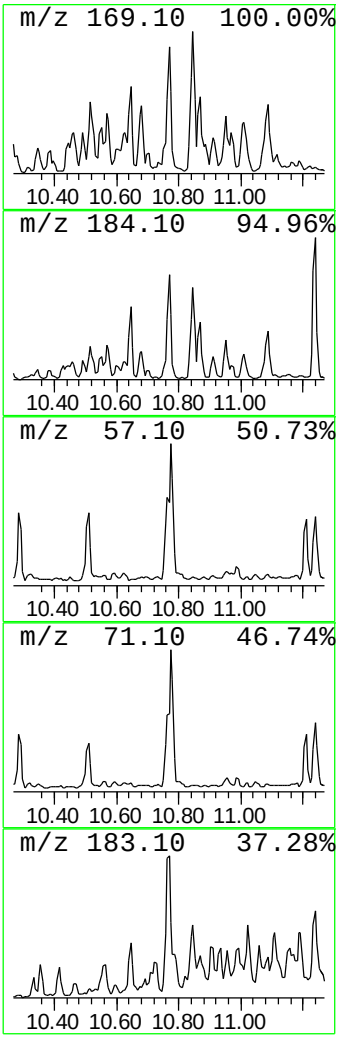
Peak Number 3 Chamazulene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	53.15 ng	1403000	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chamazulene	184	C14H16	000529-05-5	68
2	Naphthalene, 1,2,3,4-tetramethyl-	184	C14H16	003031-15-0	64
3	Cyclopentene, 1,2-dimethyl-4-met...	184	C14H16	1000152-22-4	58
4	1,4,5,8-Tetramethylnaphthalene	184	C14H16	002717-39-7	58
5	4-Cyclohepta-2,4,6-trienyl-phenol	184	C13H12O	091902-42-0	55





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
Data File : BF117000.D
Acq On : 12 Sep 2019 18:57
Operator : HP/JU
Sample : K4850-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7-(6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

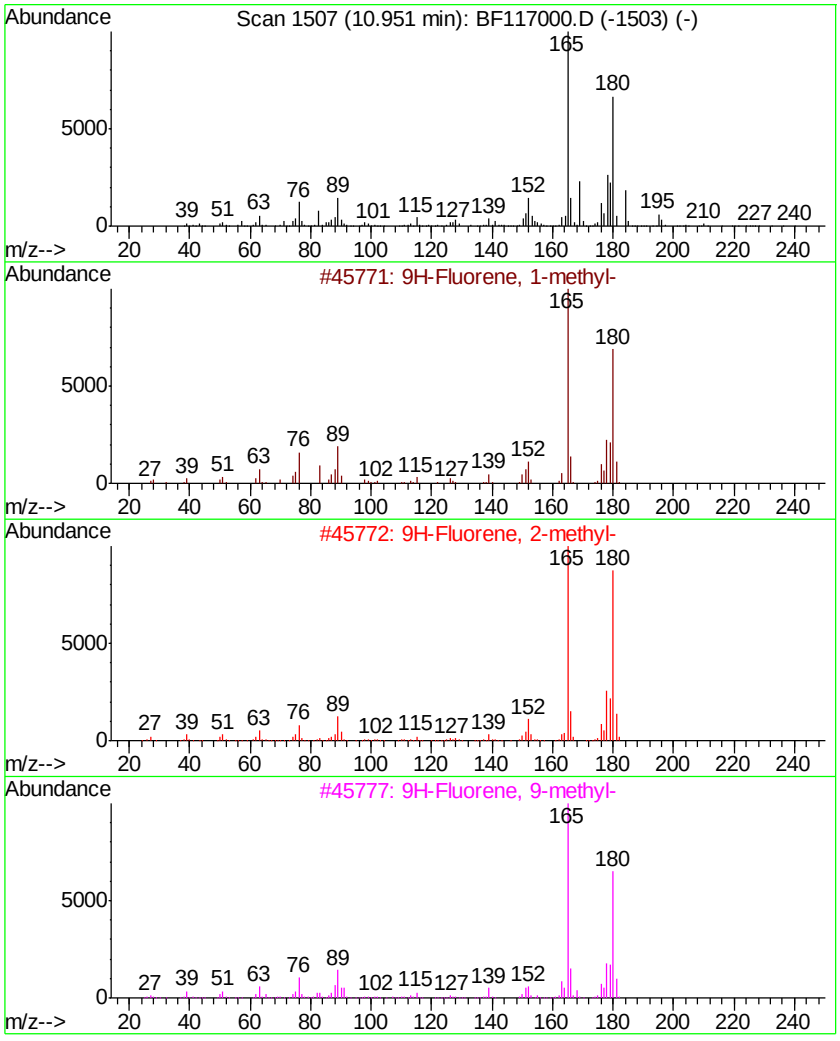
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

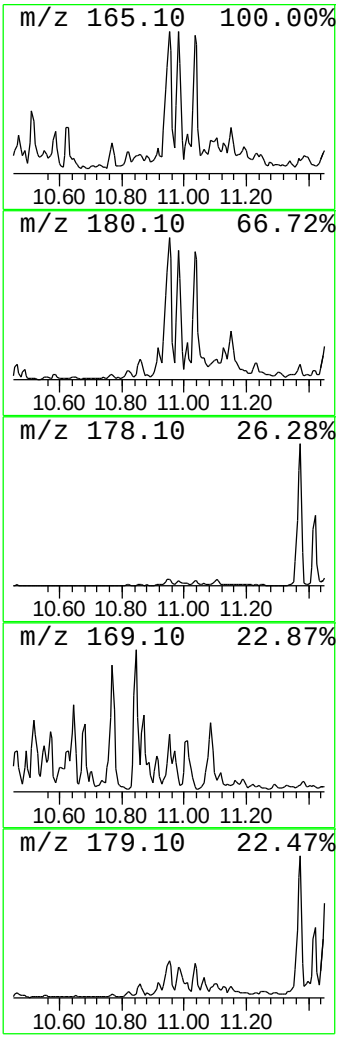
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	57.26 ng	1511480	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	93
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	86
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	70
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	70
5	(3H)Benzo[c]pyrrole, 3-methyl-3-...	208	C14H12N2	059341-20-7	58





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
Data File : BF117000.D
Acq On : 12 Sep 2019 18:57
Operator : HP/JU
Sample : K4850-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7-(6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

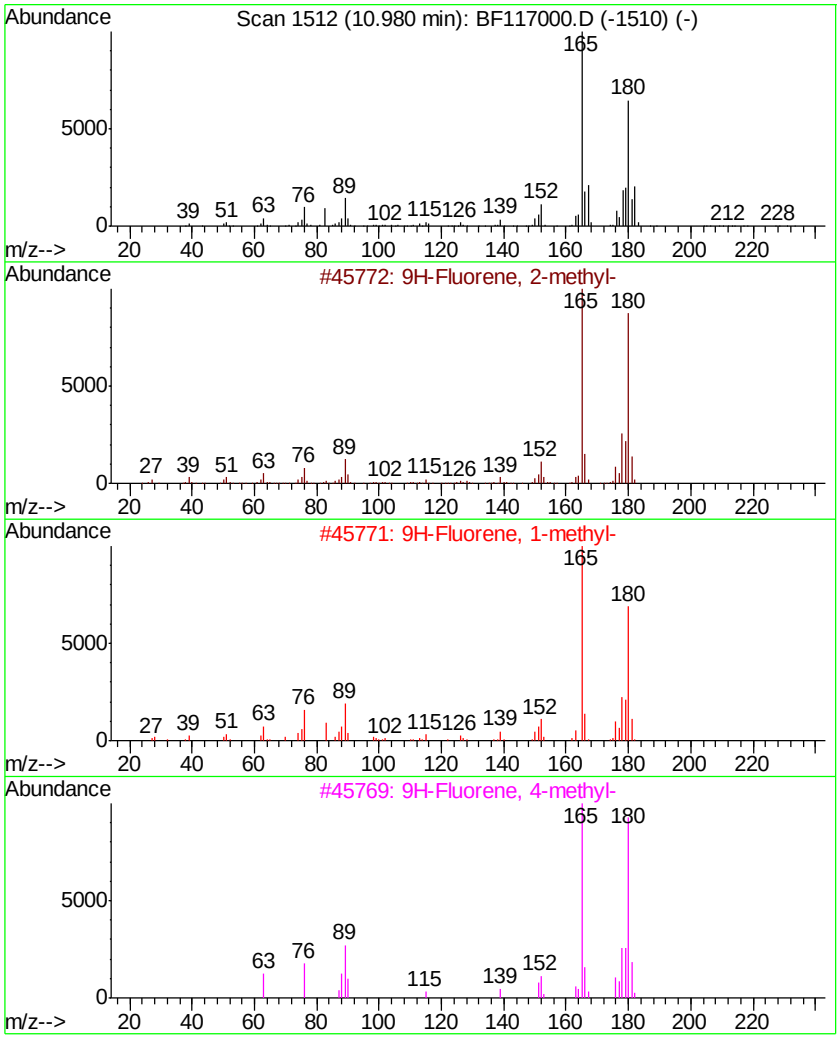
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

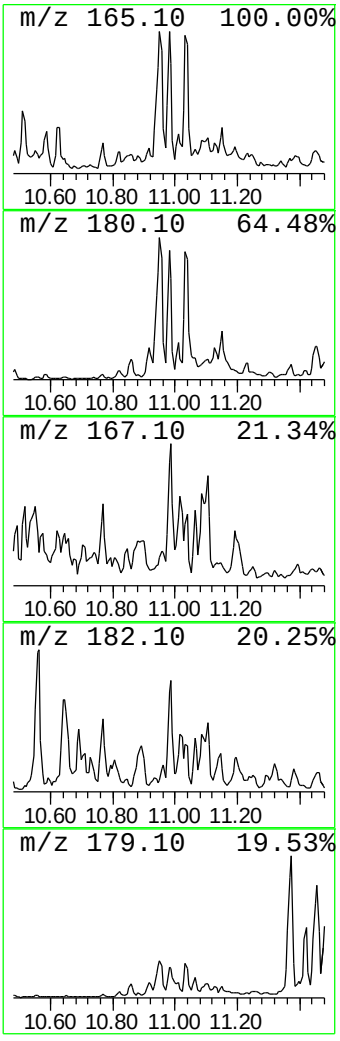
****

Peak Number 5 9H-Fluorene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.98	32.95 ng	869638	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	89
3	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	78
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	76
5	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	76





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Acq On : 12 Sep 2019 18:57
Operator : HP/JU
Sample : K4850-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7-(6)

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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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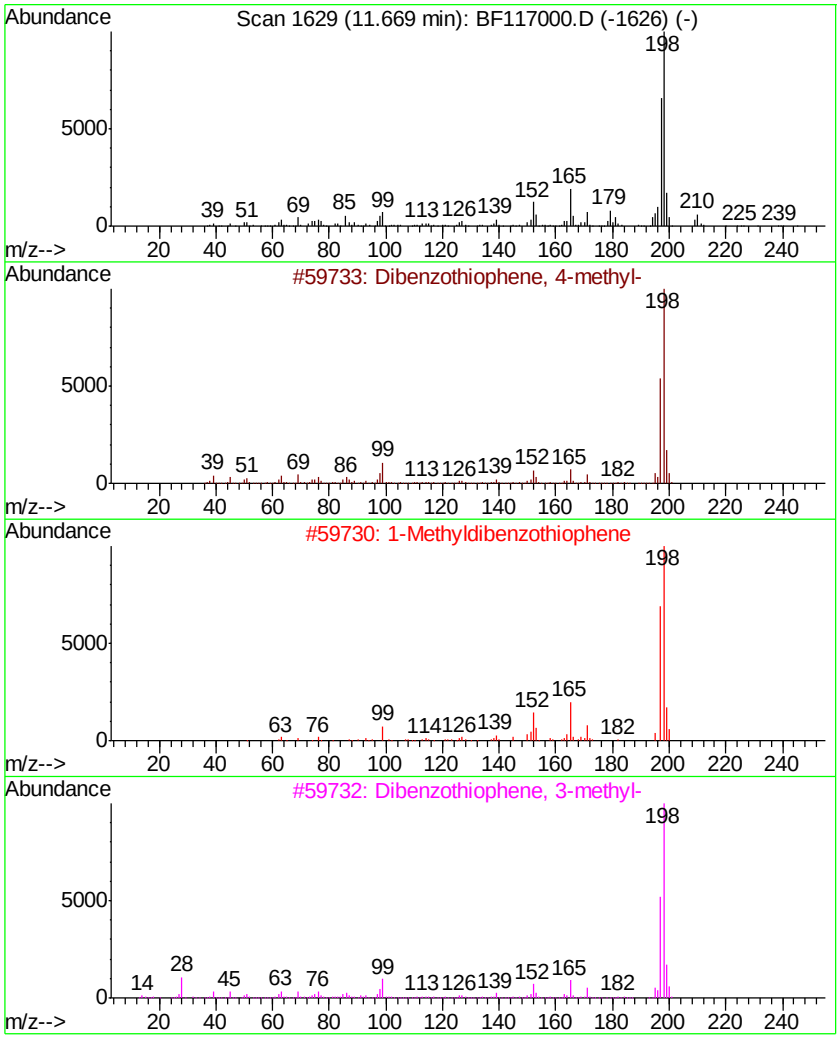
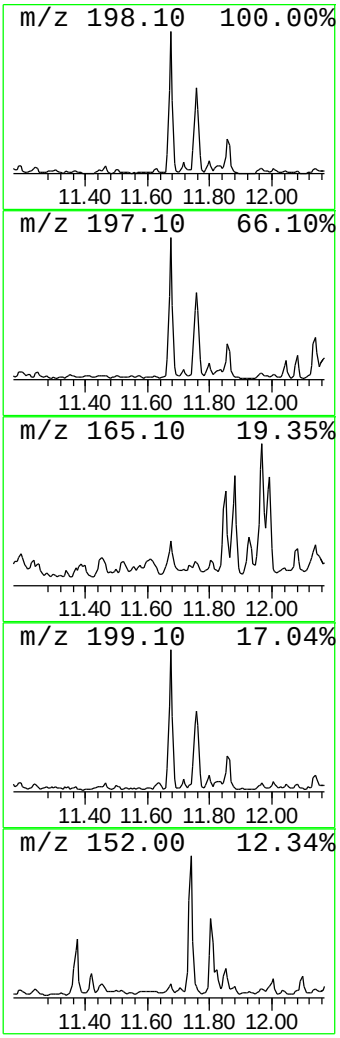
Peak Number 6 Dibenzothiophene, 4-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.67	31.87 ng	841302	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	97
2	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	95
3	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	95
4	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	83
5	4,6,8-Trimethyl-1-azulenecarbald...	198	C14H14O	000832-62-2	80





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Instrument : BNA_F
ClientSampleId : AOC-7-(6)

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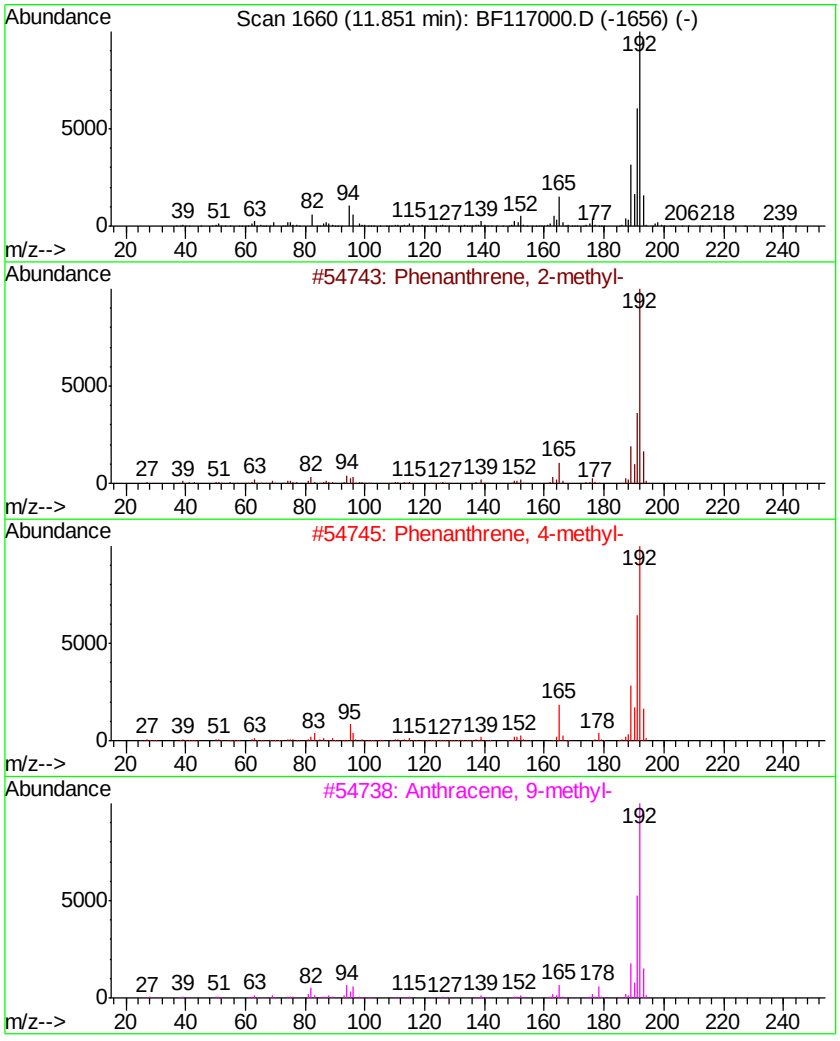
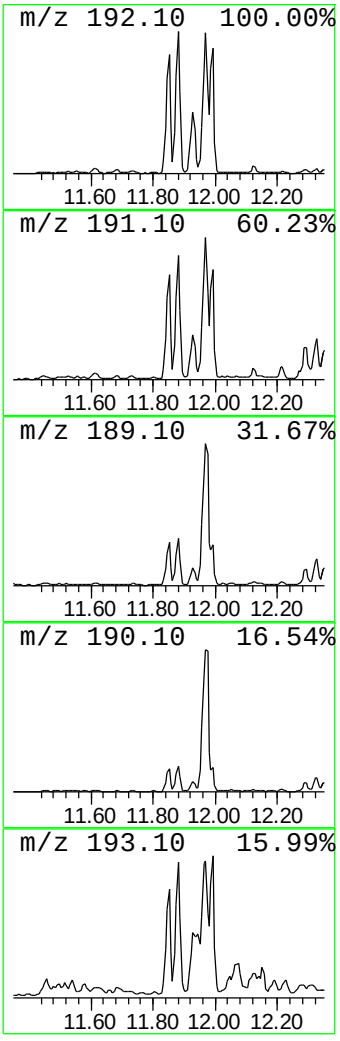
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.85	88.00 ng	2322960	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	92





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ClientSampleId : AOC-7-(6)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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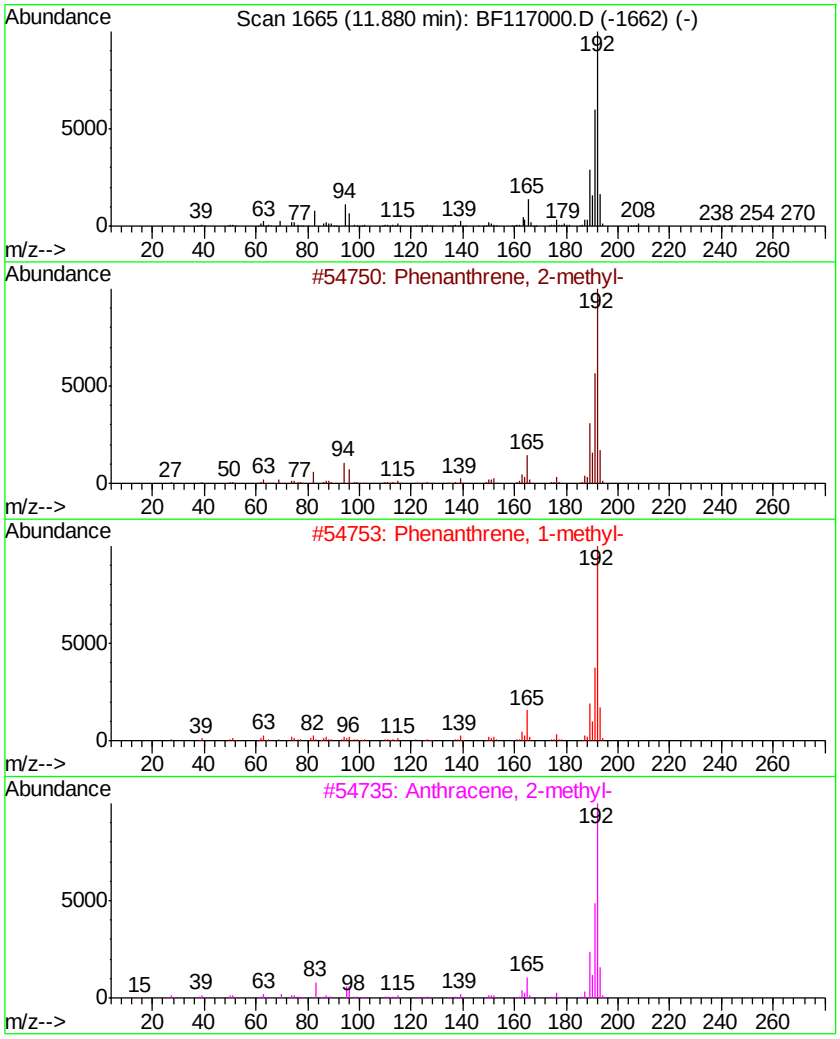
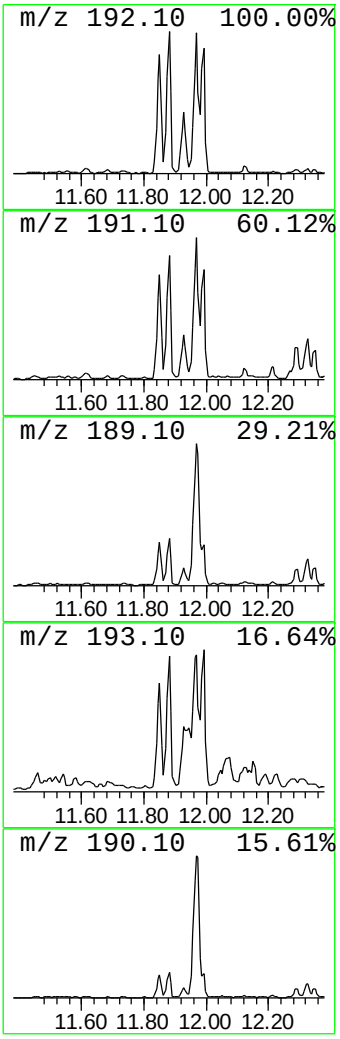
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	96.24 ng	2540340	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Instrument : BNA_F
ClientSampleId : AOC-7-(6)

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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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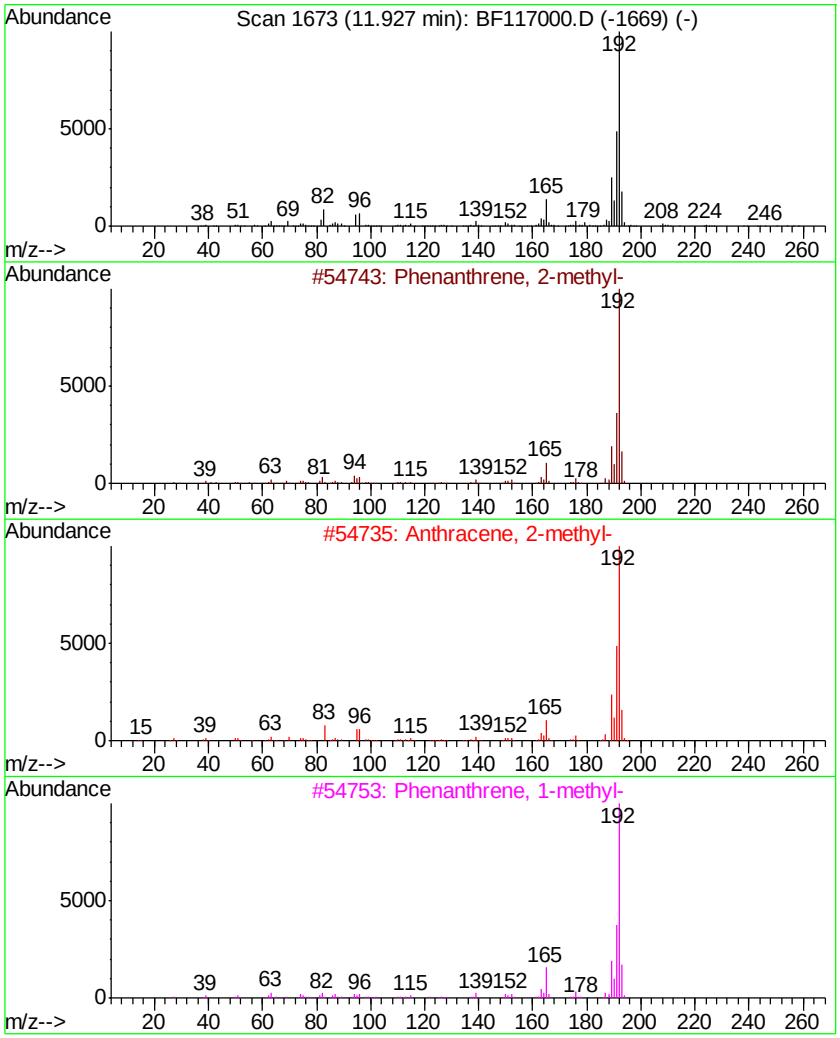
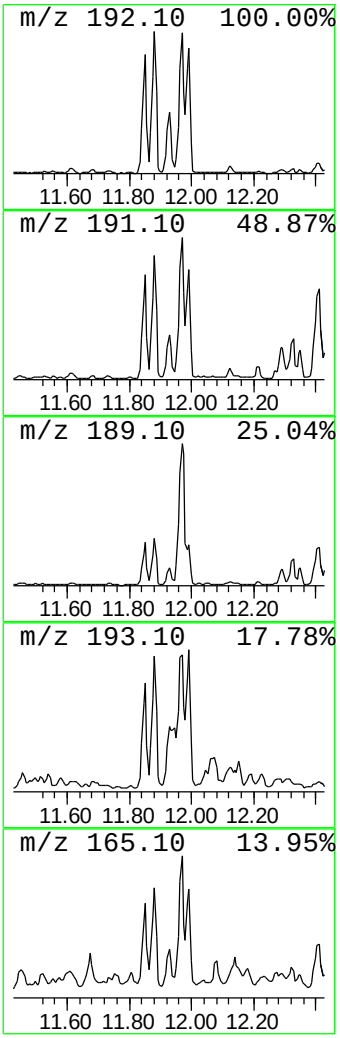
Peak Number 9 Anthracene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	47.96 ng	1265920	Phenanthrene-d10	11.34

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	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95





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Misc :
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Instrument : BNA_F
ClientSampleId : AOC-7-(6)

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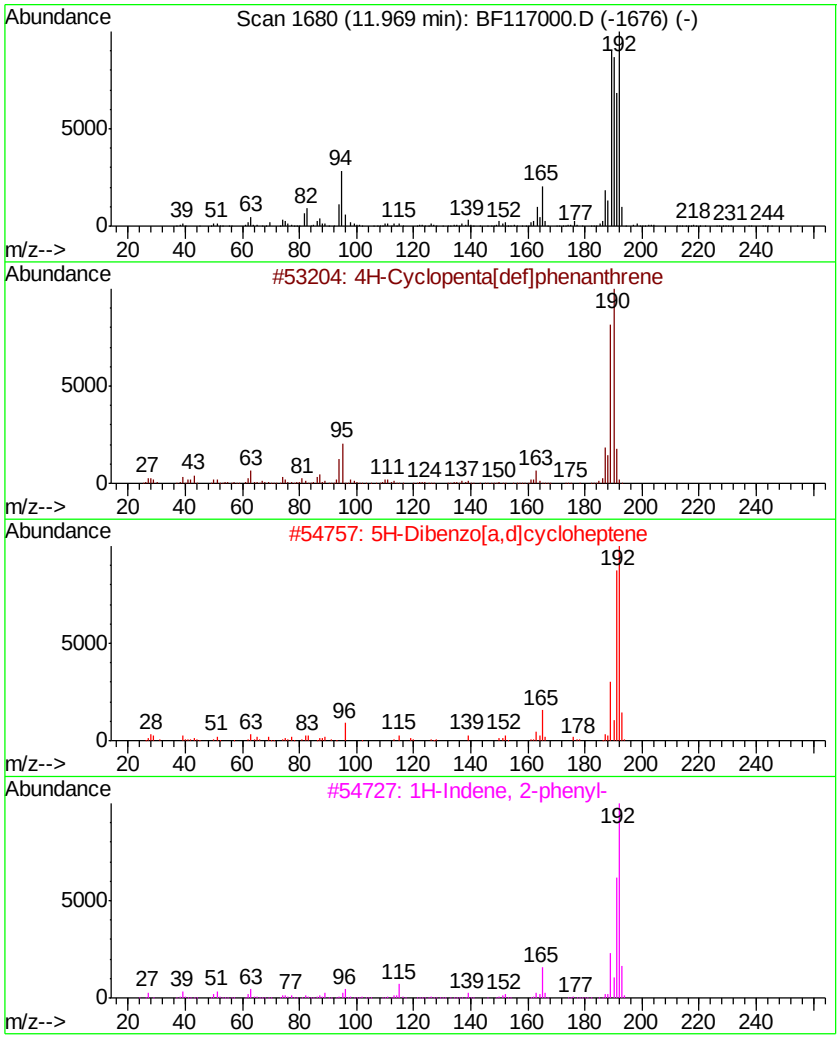
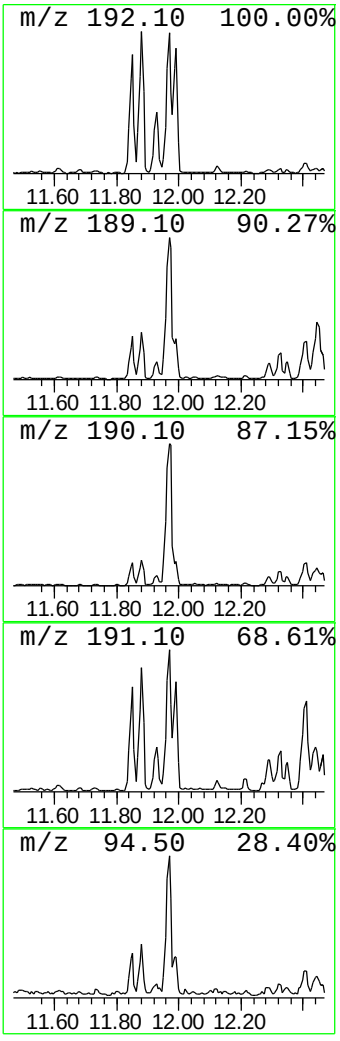
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	206.69 ng	5455720	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	50
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	46
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	38
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	38
5	Benzene, 1-bromo-2-chloro-	190	C6H4BrCl	000694-80-4	38





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Sample : K4850-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7-(6)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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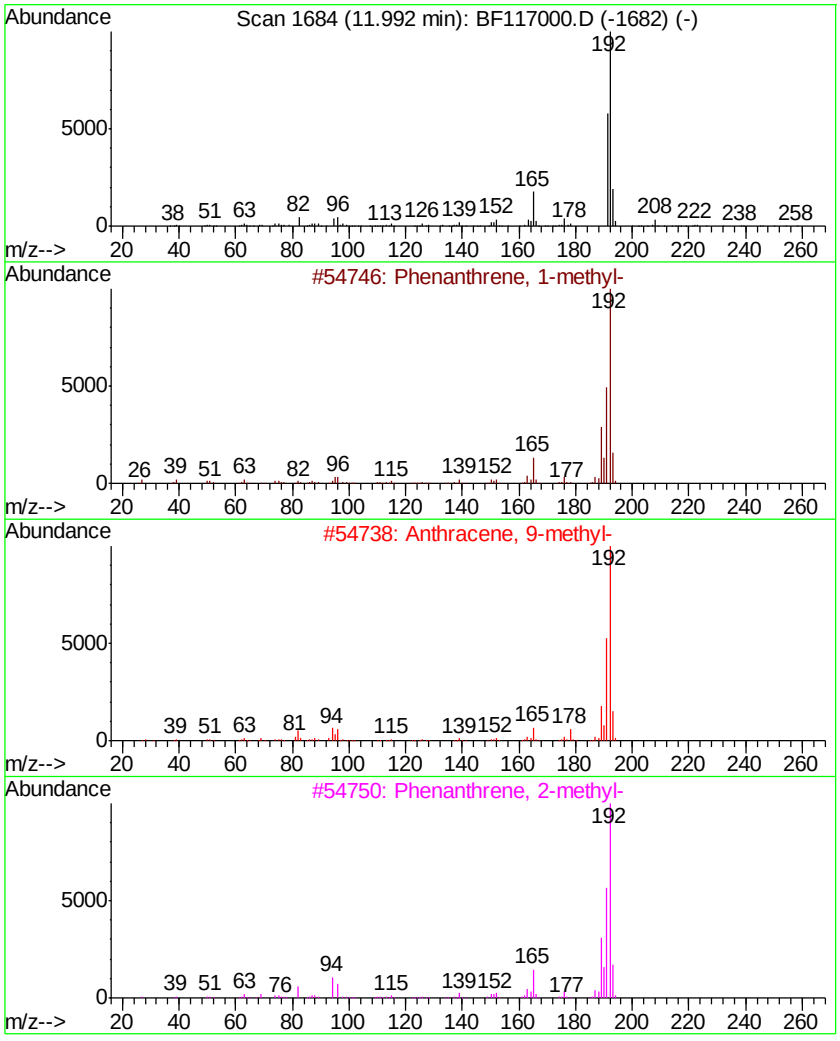
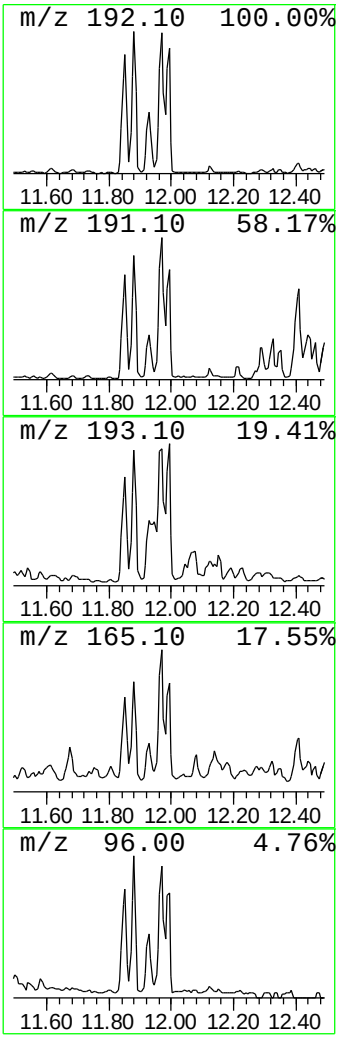
Peak Number 11 Anthracene, 9-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	69.35 ng	1830550	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
4	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	91
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90





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Operator : HP/JU
Sample : K4850-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7-(6)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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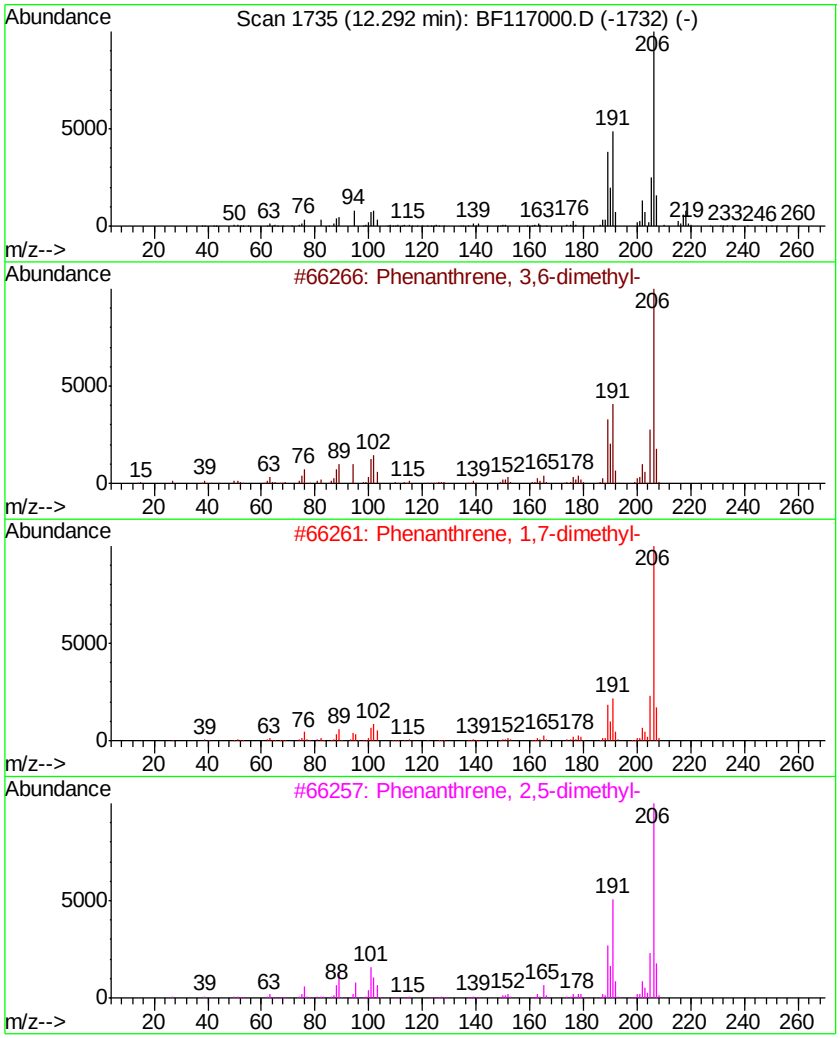
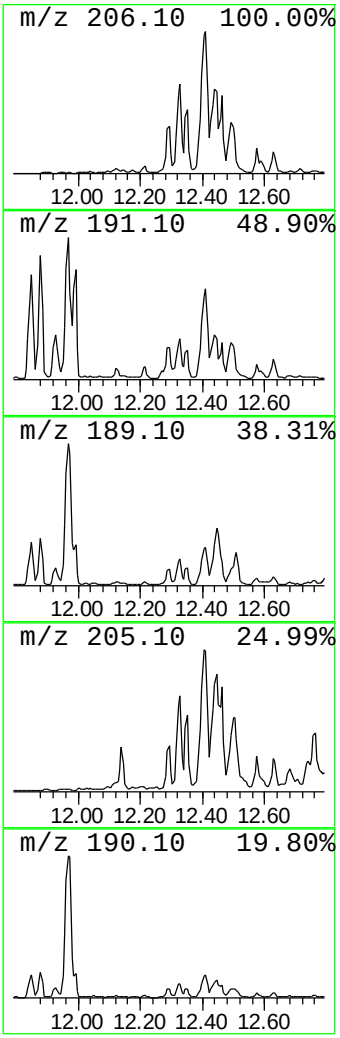
Peak Number 13 Phenanthrene, 3,6-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	34.76 ng	917480	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	95
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	90
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	81





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Sample : K4850-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7-(6)

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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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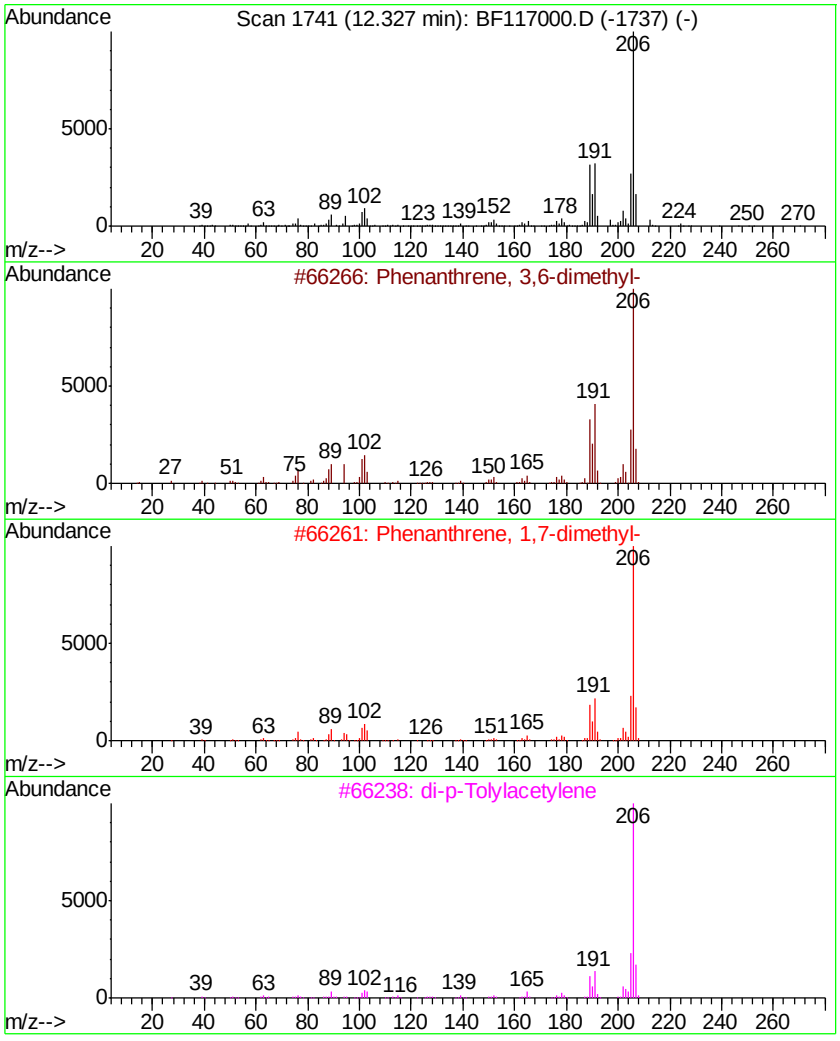
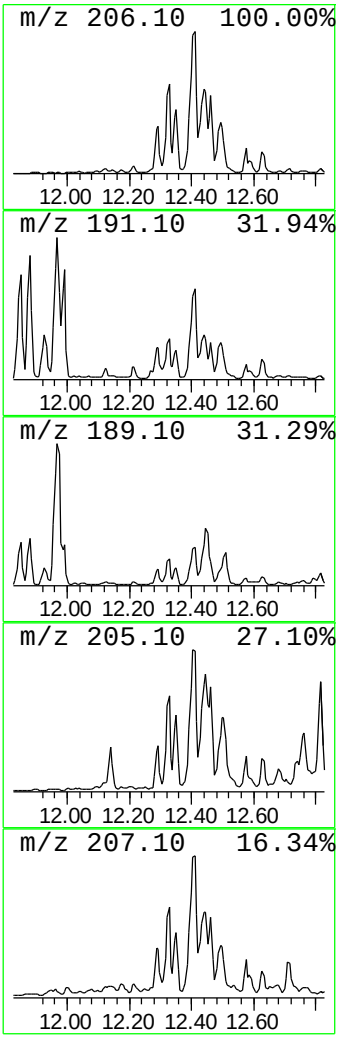
Peak Number 14 Phenanthrene, 1,7-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	61.06 ng	1611830	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	96
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	94
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	81





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Instrument : BNA_F
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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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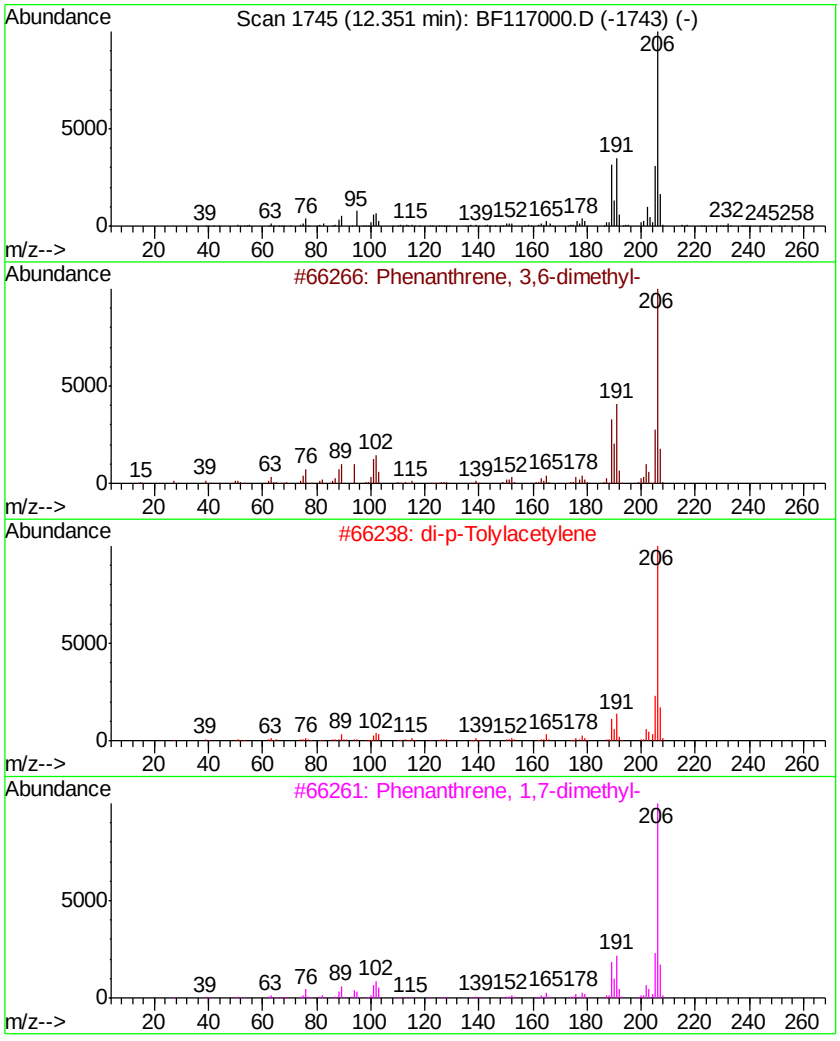
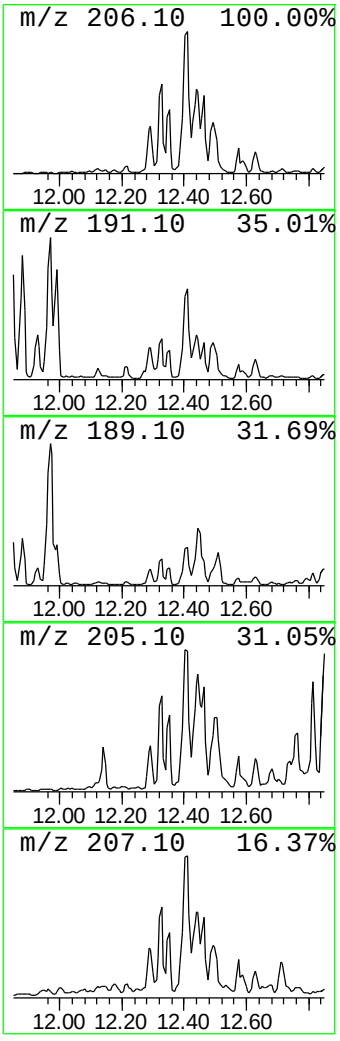
Peak Number 15 di-p-Tolylacetylene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	32.94 ng	869526	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	81





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ClientSampleId : AOC-7-(6)

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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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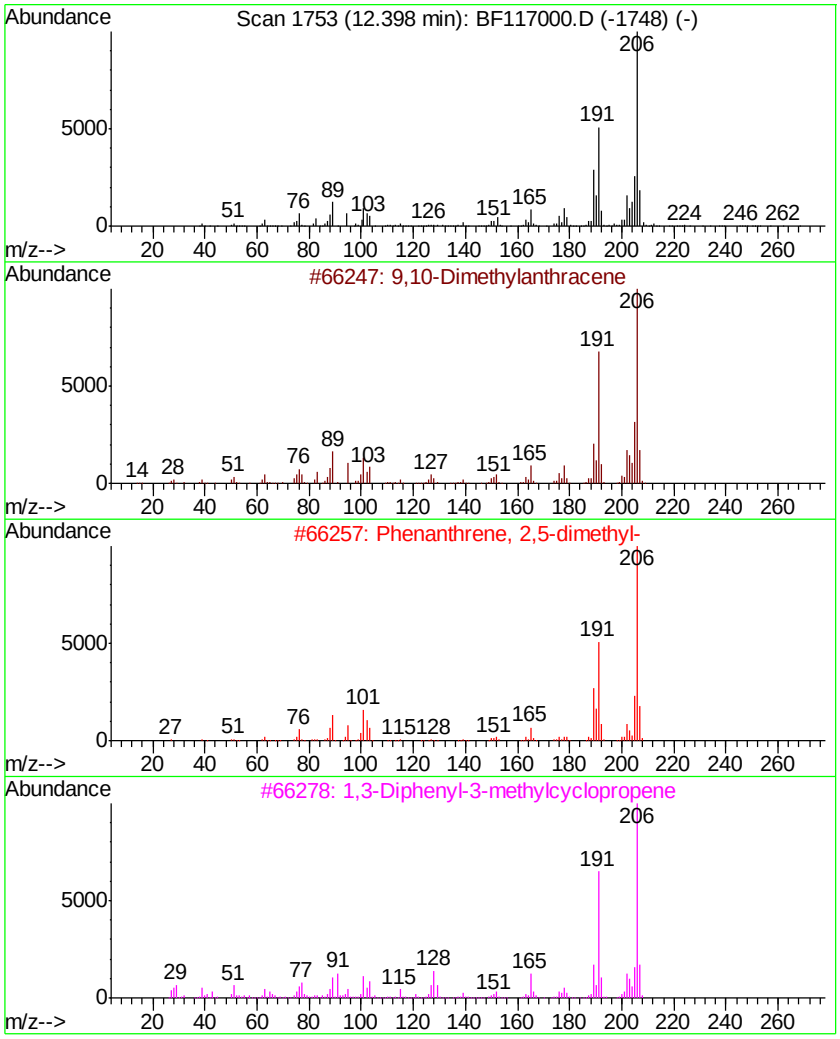
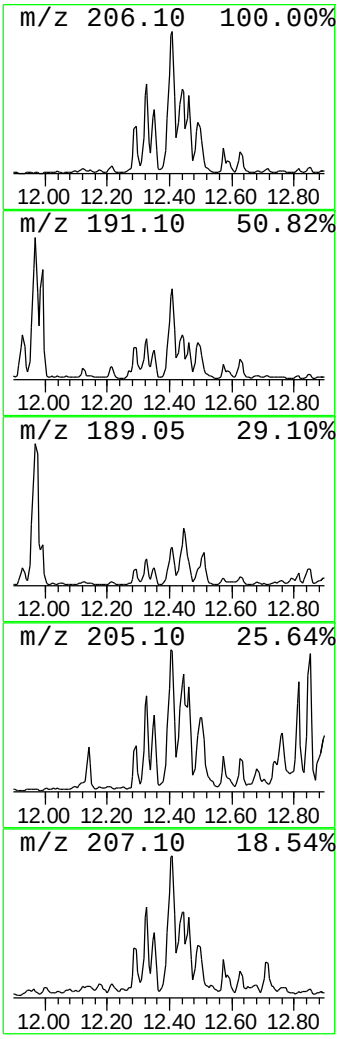
Peak Number 16 9,10-Dimethylanthracene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	151.63 ng	4002430	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	98
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
3	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91





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ClientSampleId : AOC-7-(6)

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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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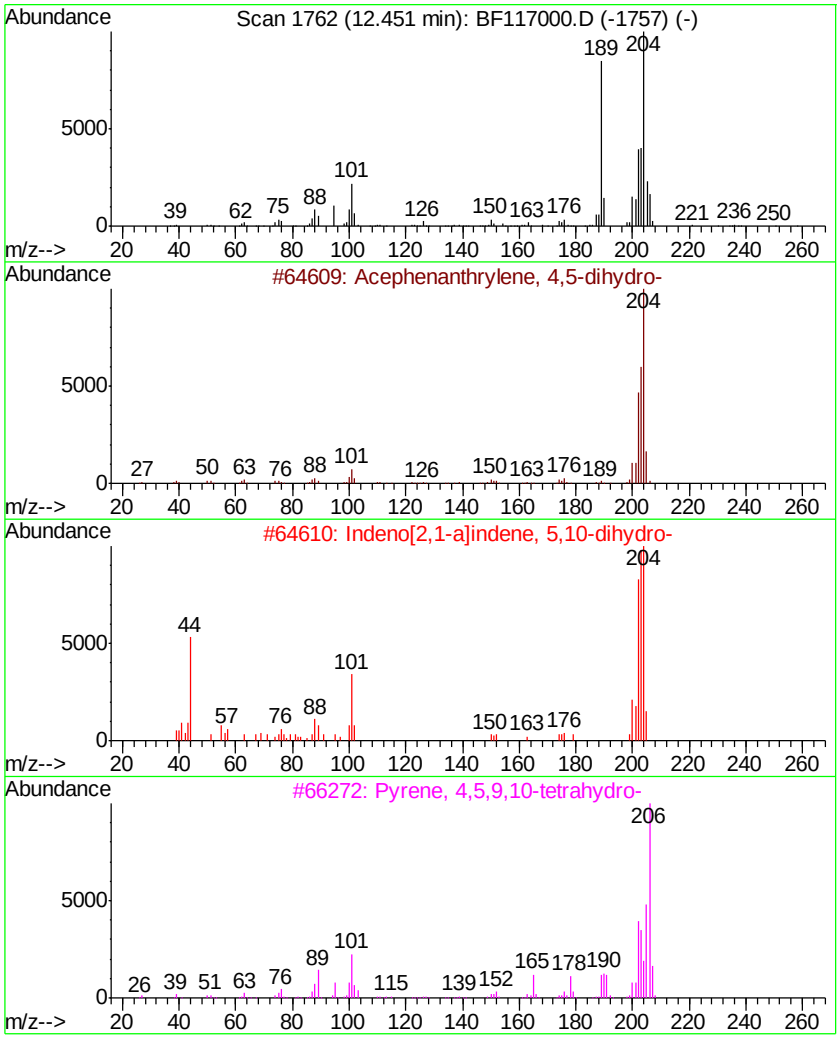
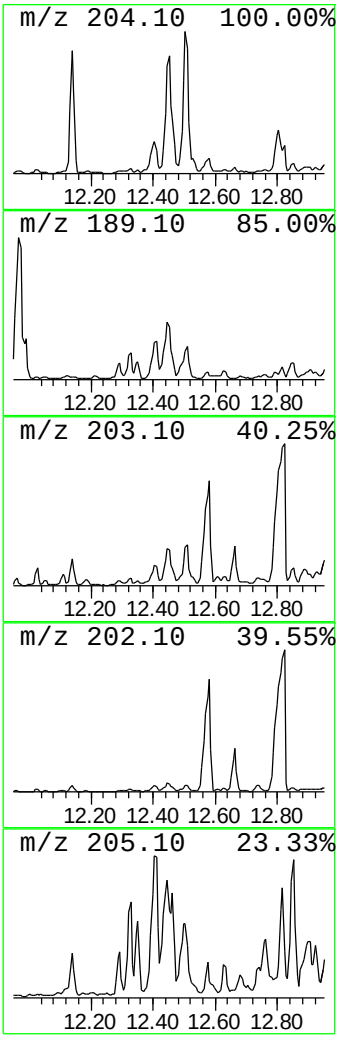
Peak Number 17 Acephenanthrylene, 4,5-dihy... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	124.19 ng	3278010	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	76
2	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	44
3	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	42
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	38
5	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	38





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Sample : K4850-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7-(6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

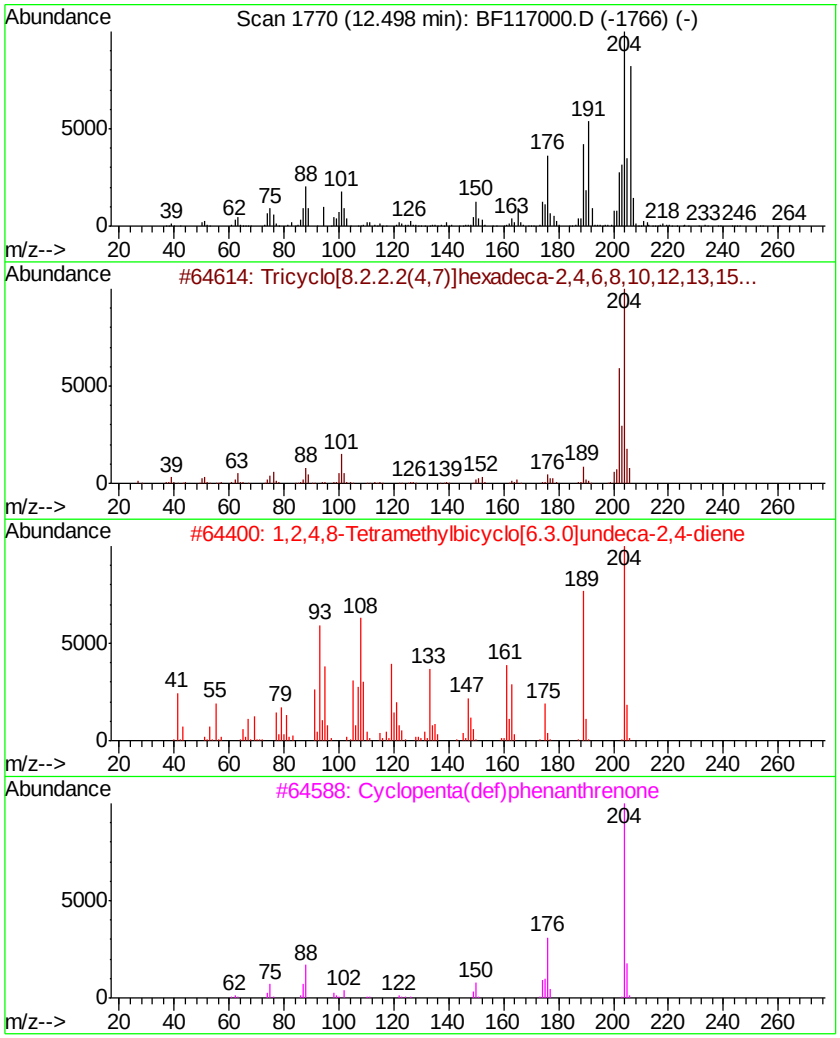
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

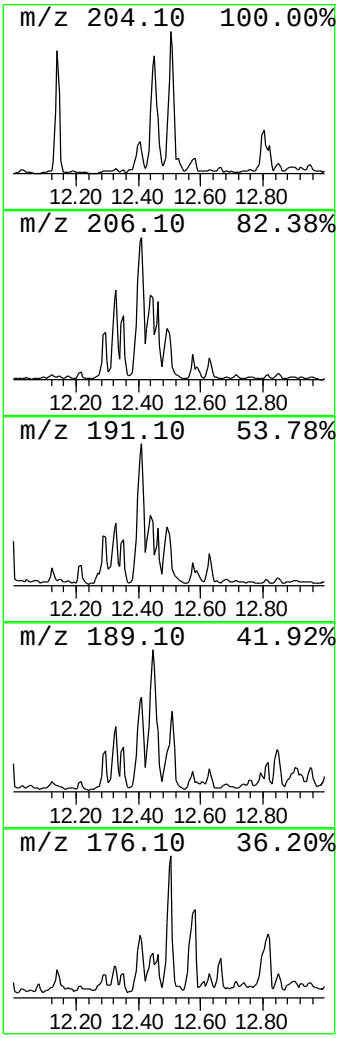
****

Peak Number 18 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.50	91.65 ng	2419340	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	55
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	55
3	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	52
4	Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	47
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	46





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091219\
Data File : BF117000.D
Acq On : 12 Sep 2019 18:57
Operator : HP/JU
Sample : K4850-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7-(6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

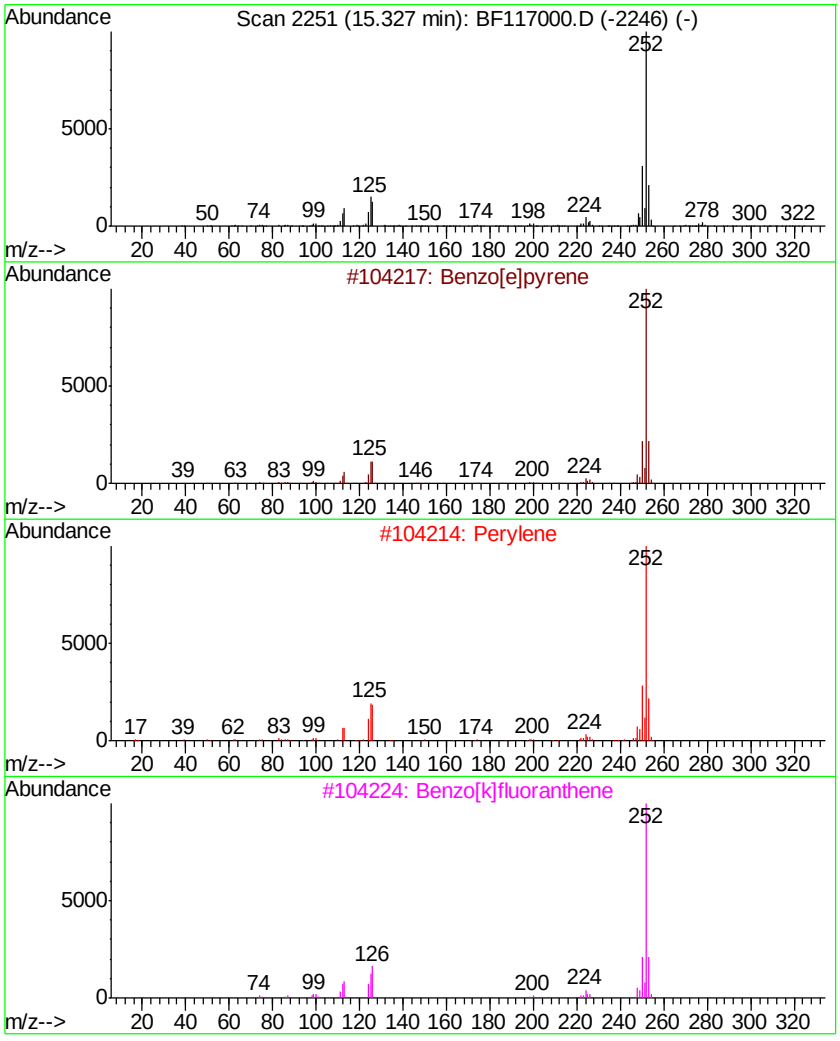
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

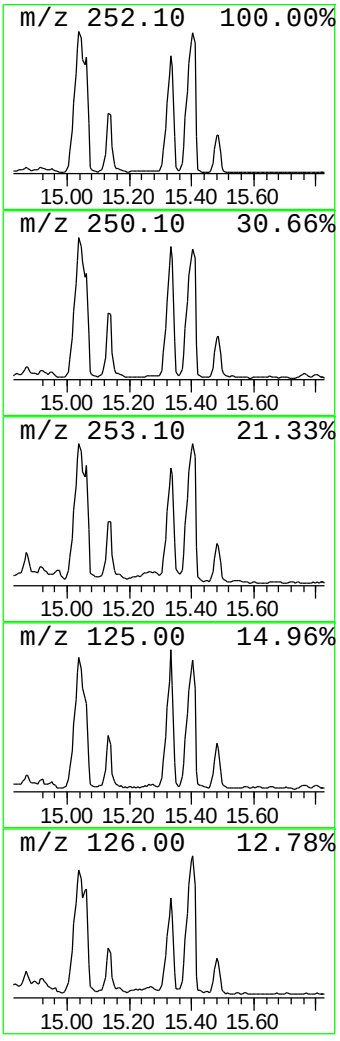
****

Peak Number 20 Benzo[e]pyrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.33	51.77 ng	2334210	Perylene-d12	15.45

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





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF091219\
Data File : BF117000.D
Acq On : 12 Sep 2019 18:57
Operator : HP/JU
Sample : K4850-02 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : AOC-7-(6)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.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
Naphthalene, 2,3-...	9.52	37.9	ng	1142290	3	9.86	602416	20.0
Naphthalene, 2,3,...	10.17	39.3	ng	1182670	3	9.86	602416	20.0
Chamazulene	10.77	53.1	ng	1403000	4	11.34	527925	20.0
9H-Fluorene, 1-me...	10.95	57.3	ng	1511480	4	11.34	527925	20.0
9H-Fluorene, 2-me...	10.98	33.0	ng	869638	4	11.34	527925	20.0
Dibenzothiophene,...	11.67	31.9	ng	841302	4	11.34	527925	20.0
Phenanthrene, 2-m...	11.85	88.0	ng	2322960	4	11.34	527925	20.0
Phenanthrene, 1-m...	11.88	96.2	ng	2540340	4	11.34	527925	20.0
Anthracene, 2-met...	11.93	48.0	ng	1265920	4	11.34	527925	20.0
4H-Cyclopenta[def...	11.97	206.7	ng	5455720	4	11.34	527925	20.0
Anthracene, 9-met...	11.99	69.3	ng	1830550	4	11.34	527925	20.0
Phenanthrene, 3,6...	12.29	34.8	ng	917480	4	11.34	527925	20.0
Phenanthrene, 1,7...	12.33	61.1	ng	1611830	4	11.34	527925	20.0
di-p-Tolylacetylene	12.35	32.9	ng	869526	4	11.34	527925	20.0
9,10-Dimethylanth...	12.40	151.6	ng	4002430	4	11.34	527925	20.0
Acephenanthrylene...	12.45	124.2	ng	3278010	4	11.34	527925	20.0
Tricyclo[8.2.2.2(...	12.50	91.7	ng	2419340	4	11.34	527925	20.0
Benzo[e]pyrene	15.33	51.8	ng	2334210	6	15.45	901833	20.0