LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040120\
Data File : BF119704.D
Acq On : 2 Apr 2020 8:28
Operator : MA/SJ
Sample : L1759-16 5X
Misc :
ALS Vial : 54 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-03-033020

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-BF031820.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	5.410	562	565	569	rBV	1223081	1134134	19.17%	1.520%
2	6.434	735	739	742	rBV	1328841	1106872	18.71%	1.484%
3	6.816	800	804	807	rBV	1508299	1386495	23.44%	1.858%
4	6.969	826	830	833	rBV	1190404	954849	16.14%	1.280%
5	7.369	889	898	902	rBV	850974	738185	12.48%	0.989%
6	8.098	1017	1022	1024	rBV	2143855	1869073	31.59%	2.505%
7	8.122	1024	1026	1029	rVB	2004645	1427796	24.14%	1.914%
8	8.810	1139	1143	1147	rVB	703794	603647	10.20%	0.809%
9	8.910	1155	1160	1164	rVB	581636	461452	7.80%	0.618%
10	9.175	1201	1205	1208	rBV	1706703	1262906	21.35%	1.693%
11	9.275	1215	1222	1225	rBV2	191535	198405	3.35%	0.266%
12	9.369	1236	1238	1243	rVB	120447	134794	2.28%	0.181%
13	9.439	1244	1250	1254	rBV2	278161	369933	6.25%	0.496%
14	9.510	1258	1262	1265	rBV	436555	436791	7.38%	0.585%
15	9.539	1265	1267	1270	rVB	304376	206337	3.49%	0.277%
16	9.569	1270	1272	1276	rVB	185080	167017	2.82%	0.224%
17	9.628	1280	1282	1284	rBV	195262	169158	2.86%	0.227%
18	9.716	1291	1297	1301	rVB	264139	233162	3.94%	0.313%
19	9.857	1314	1321	1323	rBV	2123155	1858685	31.42%	2.491%
20	9.886	1323	1326	1329	rVV	1731511	1350991	22.84%	1.811%
21	9.963	1334	1339	1342	rBV2	98263	131666	2.23%	0.176%
22	10.057	1351	1355	1359	rVV	1066347	903198	15.27%	1.211%
23	10.098	1359	1362	1366	rVB	175880	138521	2.34%	0.186%
24	10.169	1371	1374	1377	rBV2	146879	154500	2.61%	0.207%
25	10.198	1377	1379	1382	rVV	146766	115590	1.95%	0.155%
26	10.263	1386	1390	1392	rBV	131446	158928	2.69%	0.213%
27	10.404	1410	1414	1419	rVB	1840661	1525674	25.79%	2.045%
28	10.492	1427	1429	1431	rVV	234013	192465	3.25%	0.258%
29	10.516	1431	1433	1435	rVV2	122345	113711	1.92%	0.152%
30	10.557	1438	1440	1445	rVV	343439	331028	5.60%	0.444%
31	10.639	1449	1454	1458	rVV	1057737	1033954	17.48%	1.386%
32	10.692	1458	1463	1466	rVB3	86091	120972	2.04%	0.162%
33	10.769	1471	1476	1482	rVB3	150798	183602	3.10%	0.246%
34	10.951	1500	1507	1510	rBV2	355007	416892	7.05%	0.559%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040120\
Data File : BF119704.D
Acq On : 2 Apr 2020 8:28
Operator : MA/SJ
Sample : L1759-16 5X
Misc :
ALS Vial : 54 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-03-033020

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-BF031820.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.975	1510	1511	1515	rVV2	170940	159097	2.69%	0.213%
36	11.033	1518	1521	1524	rVV3	154673	148701	2.51%	0.199%
37	11.080	1524	1529	1531	rVV3	171190	221777	3.75%	0.297%
38	11.104	1531	1533	1535	rVV	185371	166098	2.81%	0.223%
39	11.145	1537	1540	1545	rVV2	203957	202225	3.42%	0.271%
40	11.192	1545	1548	1553	rVV3	178270	276081	4.67%	0.370%
41	11.239	1553	1556	1561	rVB	555118	523087	8.84%	0.701%
42	11.345	1570	1574	1576	rBV	1539318	1709834	28.90%	2.292%
43	11.374	1576	1579	1582	rVV	6611193	5915752	100.00%	7.929%
44	11.422	1582	1587	1589	rVV	2127948	1867622	31.57%	2.503%
45	11.451	1589	1592	1595	rVB2	166696	160461	2.71%	0.215%
46	11.569	1606	1612	1615	rBV	574055	551237	9.32%	0.739%
47	11.639	1621	1624	1627	rBV2	193151	139830	2.36%	0.187%
48	11.674	1627	1630	1635	rVB3	173243	178102	3.01%	0.239%
49	11.757	1641	1644	1647	rVB	109690	115535	1.95%	0.155%
50	11.845	1653	1659	1661	rBV	850861	767864	12.98%	1.029%
51	11.874	1661	1664	1668	rVB	1144976	992107	16.77%	1.330%
52	11.922	1668	1672	1674	rBV	447033	418628	7.08%	0.561%
53	11.957	1674	1678	1680	rVV	1428454	1386310	23.43%	1.858%
54	11.980	1680	1682	1686	rVB	512656	410335	6.94%	0.550%
55	12.139	1706	1709	1711	rBV	579789	456290	7.71%	0.612%
56	12.163	1711	1713	1716	rVB2	248685	201143	3.40%	0.270%
57	12.292	1732	1735	1737	rVB	143092	128348	2.17%	0.172%
58	12.322	1737	1740	1742	rBV	177322	150204	2.54%	0.201%
59	12.345	1742	1744	1746	rVB	155362	117804	1.99%	0.158%
60	12.392	1749	1752	1755	rBV	347498	398996	6.74%	0.535%
61	12.433	1755	1759	1761	rVV2	242790	245968	4.16%	0.330%
62	12.480	1764	1767	1772	rVB2	217934	262647	4.44%	0.352%
63	12.563	1776	1781	1784	rBV	5762564	5496353	92.91%	7.367%
64	12.710	1803	1806	1810	rVB	199093	185366	3.13%	0.248%
65	12.792	1813	1820	1825	rBV2	4635302	5460134	92.30%	7.318%
66	12.833	1825	1827	1832	rVB2	236137	270621	4.57%	0.363%
67	12.904	1836	1839	1841	rBV	317711	295646	5.00%	0.396%
68	12.927	1841	1843	1850	rVB2	1129994	1060175	17.92%	1.421%
69	13.004	1850	1856	1859	rBV2	329760	571816	9.67%	0.766%
70	13.086	1868	1870	1872	rVV2	195842	216828	3.67%	0.291%
71	13.116	1872	1875	1878	rVB	855038	792743	13.40%	1.063%

LSC Area Percent Report

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Acq On : 2 Apr 2020 8:28
Operator : MA/SJ
Sample : L1759-16 5X
Misc :
ALS Vial : 54 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-03-033020

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-BF031820.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.180	1882	1886	1889	rBV	784519	651049	11.01%	0.873%
73	13.216	1889	1892	1895	rVV2	465772	480945	8.13%	0.645%
74	13.310	1905	1908	1911	rVB	244482	187707	3.17%	0.252%
75	13.339	1911	1913	1917	rBV	261517	237556	4.02%	0.318%
76	13.516	1937	1943	1945	rBV5	159778	261369	4.42%	0.350%
77	13.598	1954	1957	1958	rBV2	99785	112946	1.91%	0.151%
78	13.621	1958	1961	1965	rVB	201392	267019	4.51%	0.358%
79	13.733	1975	1980	1983	rBV3	384670	484866	8.20%	0.650%
80	13.763	1983	1985	1987	rVV	419550	350113	5.92%	0.469%
81	13.786	1987	1989	1993	rVV2	311680	454080	7.68%	0.609%
82	13.827	1994	1996	2003	rVB2	256802	342167	5.78%	0.459%
83	13.980	2015	2022	2025	rBV3	2810236	3881412	65.61%	5.202%
84	14.010	2025	2027	2033	rVB	1866305	1901274	32.14%	2.548%
85	14.092	2038	2041	2044	rVB	450693	361055	6.10%	0.484%
86	14.204	2057	2060	2064	rBV2	200980	249453	4.22%	0.334%
87	14.368	2085	2088	2091	rVV	421820	450354	7.61%	0.604%
88	14.404	2091	2094	2098	rVV	229047	200429	3.39%	0.269%
89	14.463	2101	2104	2107	rVV2	305567	355504	6.01%	0.476%
90	14.498	2107	2110	2111	rVV	237149	252931	4.28%	0.339%
91	14.515	2111	2113	2117	rVV3	293868	293480	4.96%	0.393%
92	14.568	2117	2122	2126	rVB3	152444	263626	4.46%	0.353%
93	15.021	2195	2199	2202	rBV	1446383	2199616	37.18%	2.948%
94	15.127	2214	2217	2221	rVB	316939	317416	5.37%	0.425%
95	15.321	2246	2250	2256	rVB	844517	1105271	18.68%	1.481%
96	15.386	2256	2261	2266	rBV	1244531	1582771	26.76%	2.121%
97	15.445	2267	2271	2274	rVV	822082	1036062	17.51%	1.389%
98	15.474	2274	2276	2283	rVB3	481971	618636	10.46%	0.829%
99	16.892	2512	2517	2524	rVB2	458756	893591	15.11%	1.198%
100	17.333	2587	2592	2601	rVB	311032	603711	10.21%	0.809%

Sum of corrected areas: 74609557

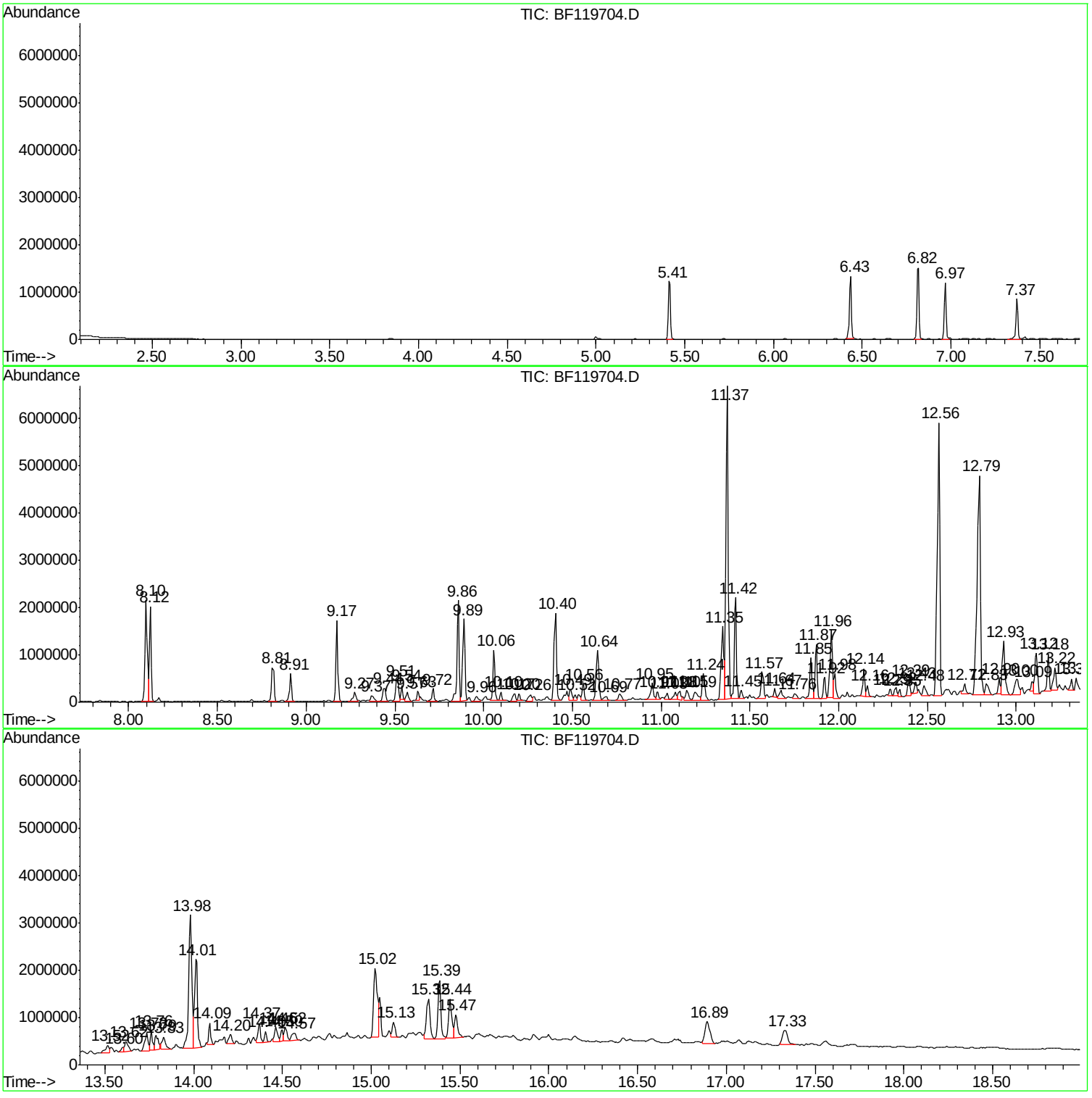
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040120\
Data File : BF119704.D
Acq On : 2 Apr 2020 8:28
Operator : MA/SJ
Sample : L1759-16 5X
Misc :
ALS Vial : 54 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OR-03-033020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.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\BF040120\
Data File : BF119704.D
Acq On : 2 Apr 2020 8:28
Operator : MA/SJ
Sample : L1759-16 5X
Misc :
ALS Vial : 54 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-03-033020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

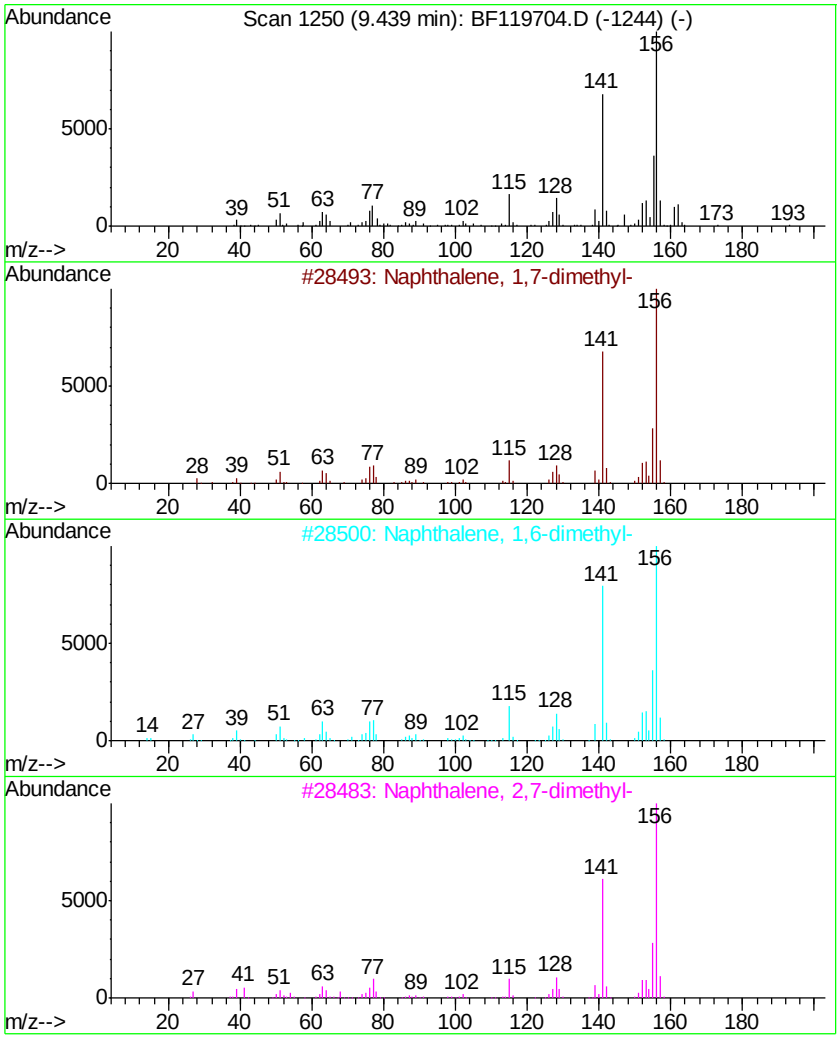
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

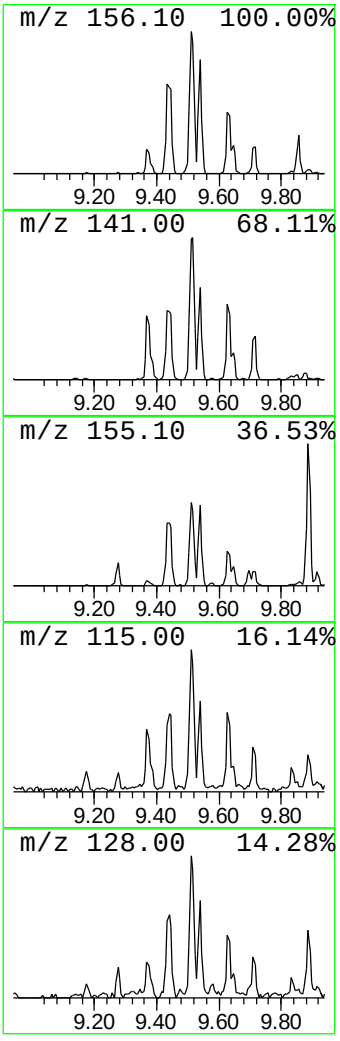
****

Peak Number 2 Naphthalene, 1,7-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.44	3.98 ng	369933	Acenaphthene-d10	9.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
4	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040120\
Data File : BF119704.D
Acq On : 2 Apr 2020 8:28
Operator : MA/SJ
Sample : L1759-16 5X
Misc :
ALS Vial : 54 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-03-033020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

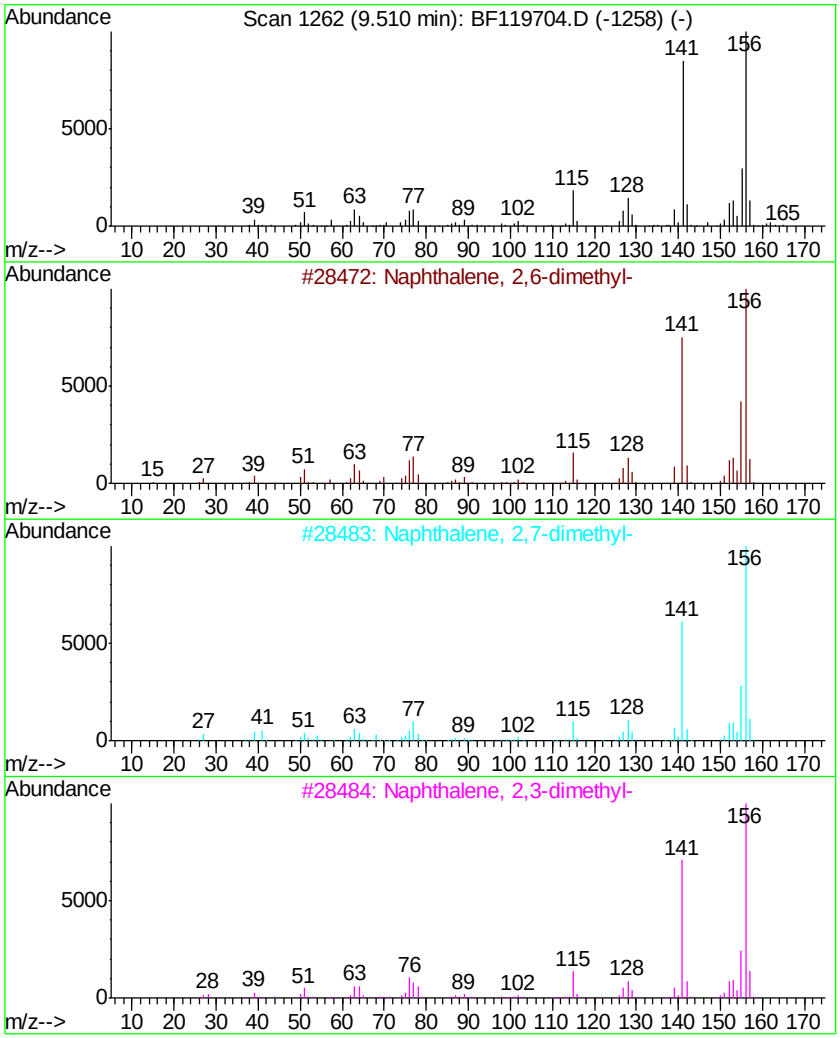
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

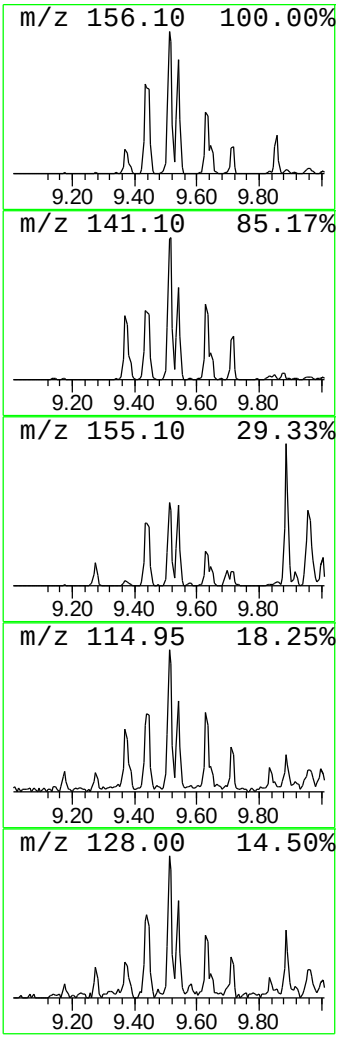
****

Peak Number 3 Naphthalene, 2,6-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.51	4.70 ng	436791	Acenaphthene-d10	9.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040120\
Data File : BF119704.D
Acq On : 2 Apr 2020 8:28
Operator : MA/SJ
Sample : L1759-16 5X
Misc :
ALS Vial : 54 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-03-033020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

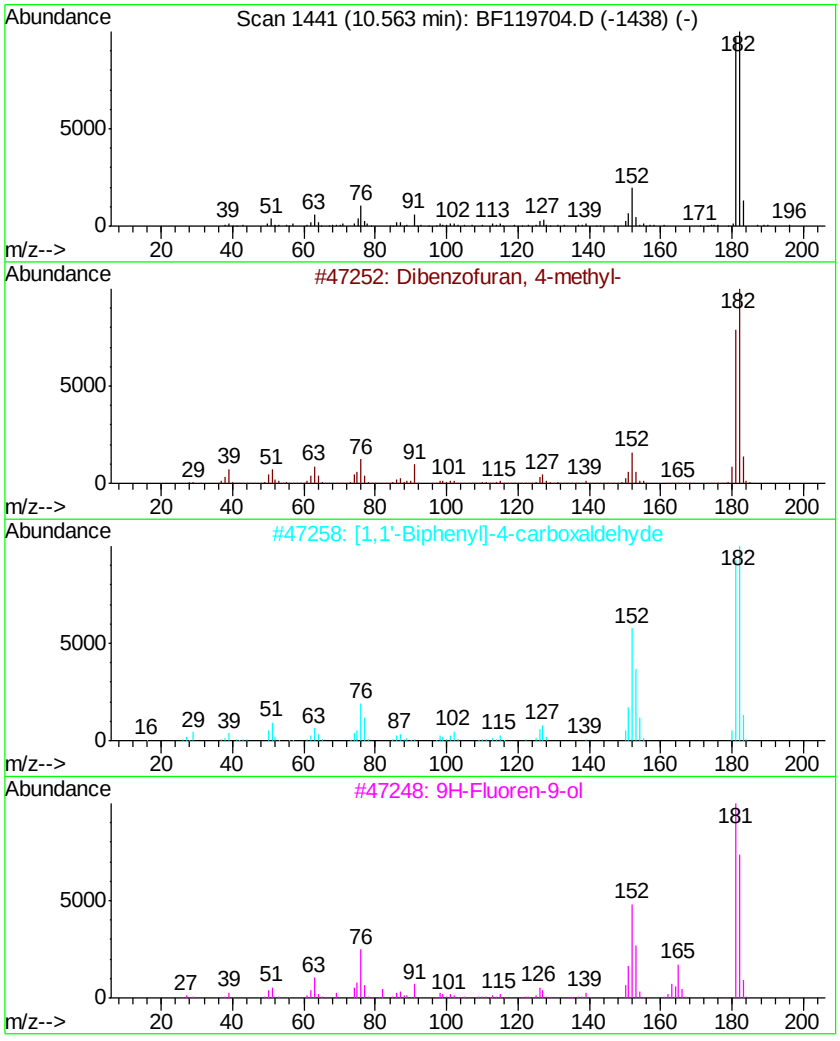
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

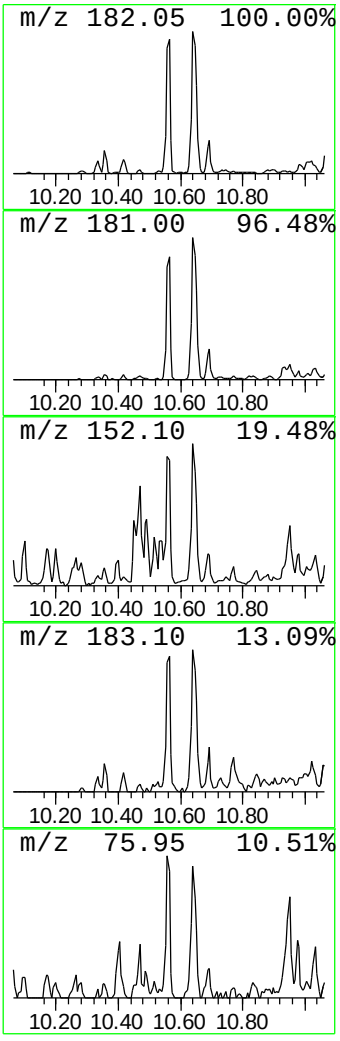
****

Peak Number 4 Dibenzofuran, 4-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.56	3.56 ng	331028	Acenaphthene-d10	9.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	94
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	91
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
4	2-Hydroxyfluorene	182	C13H10O	002443-58-5	64
5	Norharmane, N-methyl-	182	C12H10N2	1000374-78-6	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040120\
Data File : BF119704.D
Acq On : 2 Apr 2020 8:28
Operator : MA/SJ
Sample : L1759-16 5X
Misc :
ALS Vial : 54 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-03-033020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

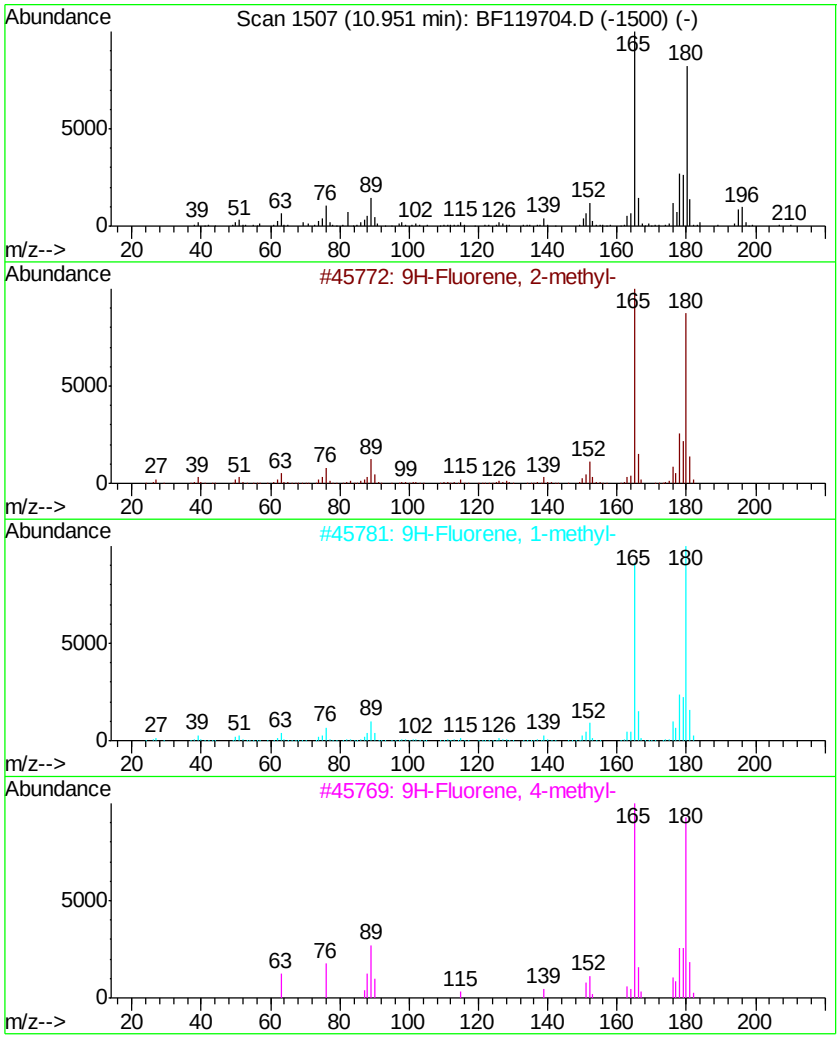
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

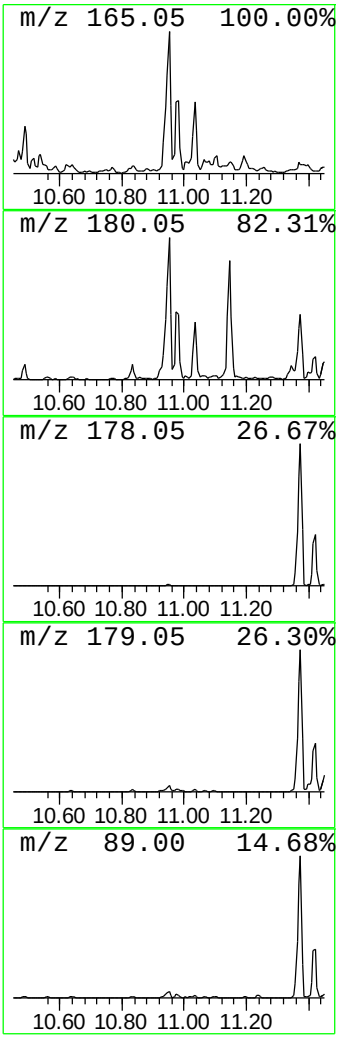
****

Peak Number 5 9H-Fluorene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	4.88 ng	416892	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	97
3	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	95
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	95
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	89





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040120\
Data File : BF119704.D
Acq On : 2 Apr 2020 8:28
Operator : MA/SJ
Sample : L1759-16 5X
Misc :
ALS Vial : 54 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-03-033020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

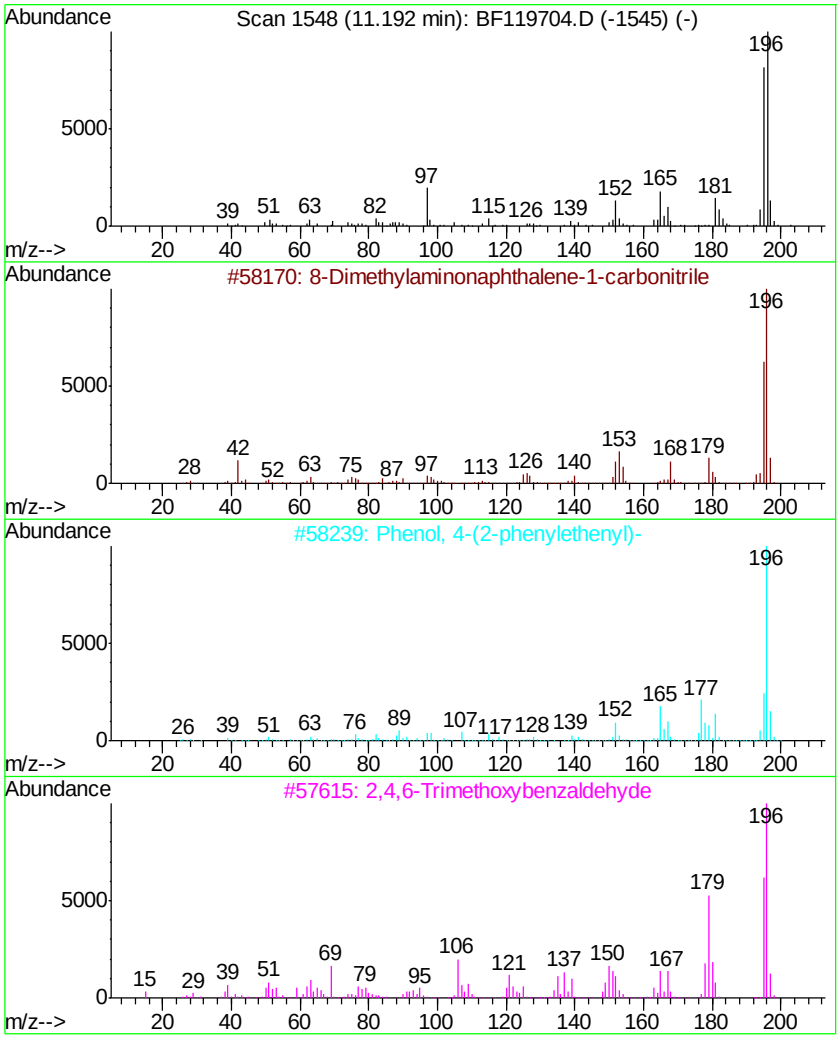
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

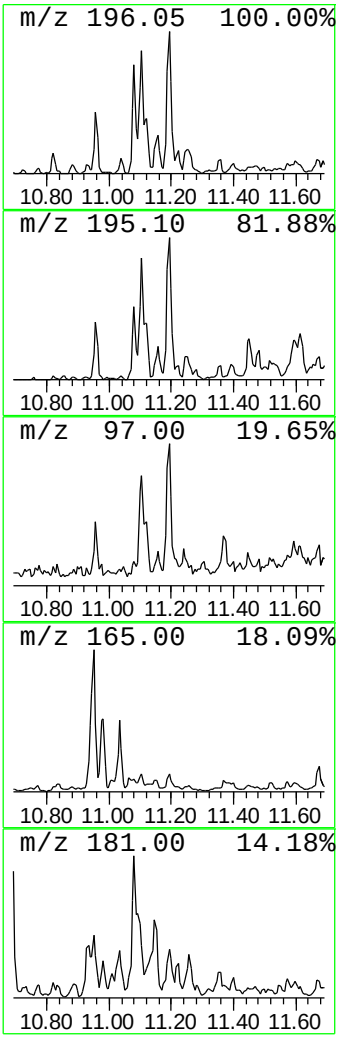
****

Peak Number 6 8-Dimethylaminonaphthalene-... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.19	3.23 ng	276081	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8-Dimethylaminonaphthalene-1-car...	196	C13H12N2	128644-69-9	72
2	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	64
3	2,4,6-Trimethoxybenzaldehyde	196	C10H12O4	000830-79-5	64
4	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	58
5	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	58





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Acq On : 2 Apr 2020 8:28
Operator : MA/SJ
Sample : L1759-16 5X
Misc :
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Instrument : BNA_F
ClientSampleId : OR-03-033020

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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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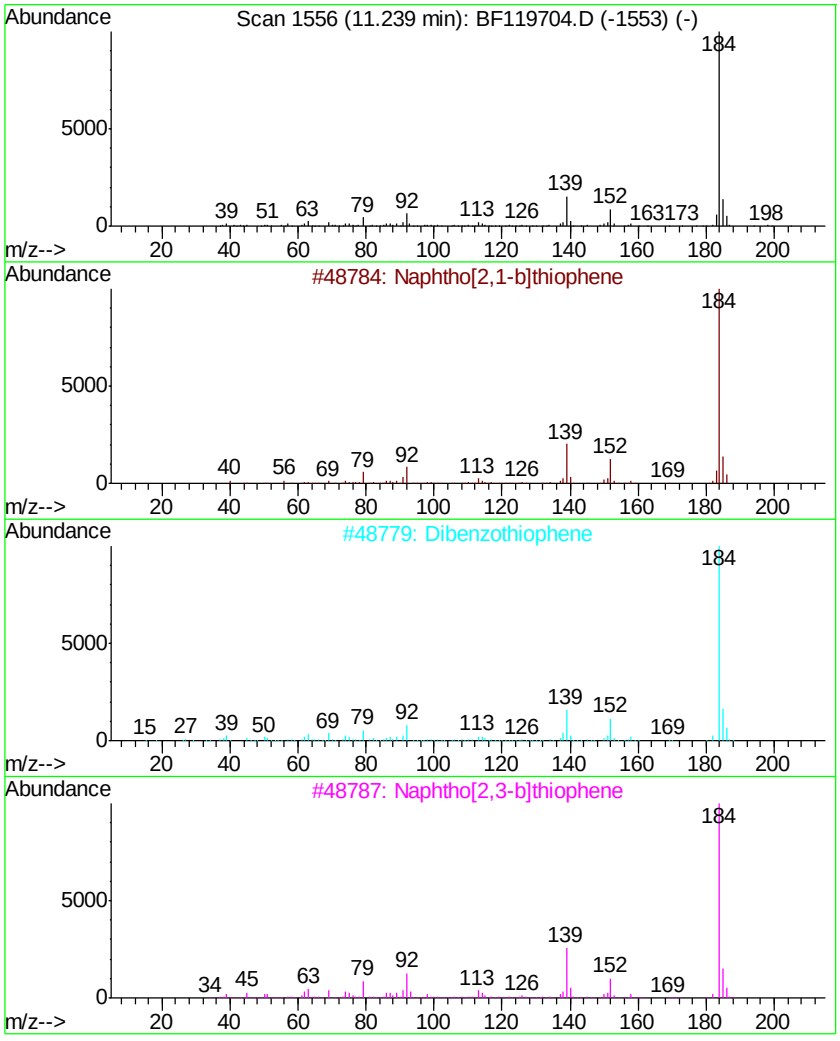
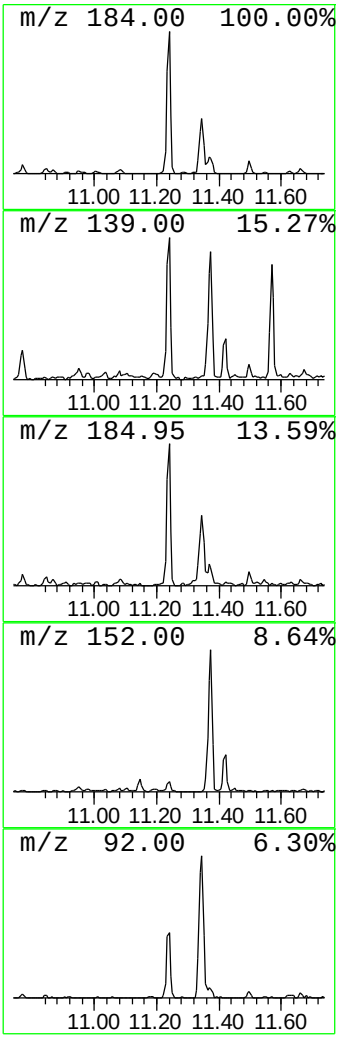
Peak Number 7 Naphtho[2,1-b]thiophene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.24	6.12 ng	523087	Phenanthrene-d10	11.35

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





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Sample : L1759-16 5X
Misc :
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ClientSampleId : OR-03-033020

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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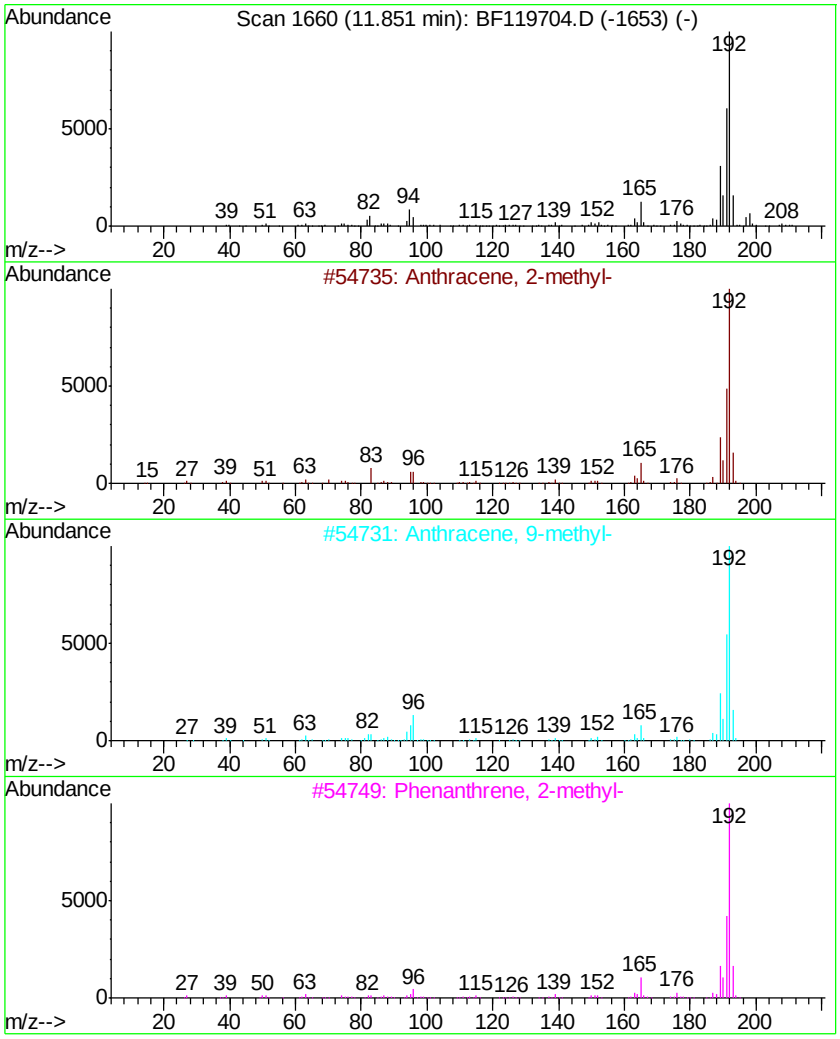
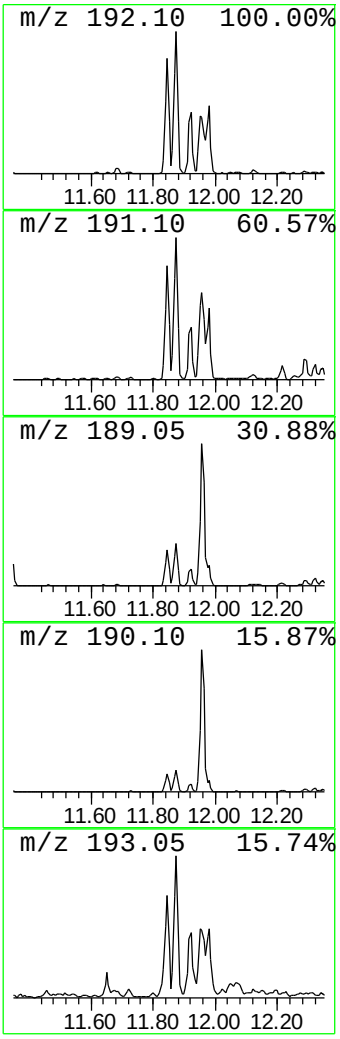
Peak Number 8 Anthracene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.85	8.98 ng	767864	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	87





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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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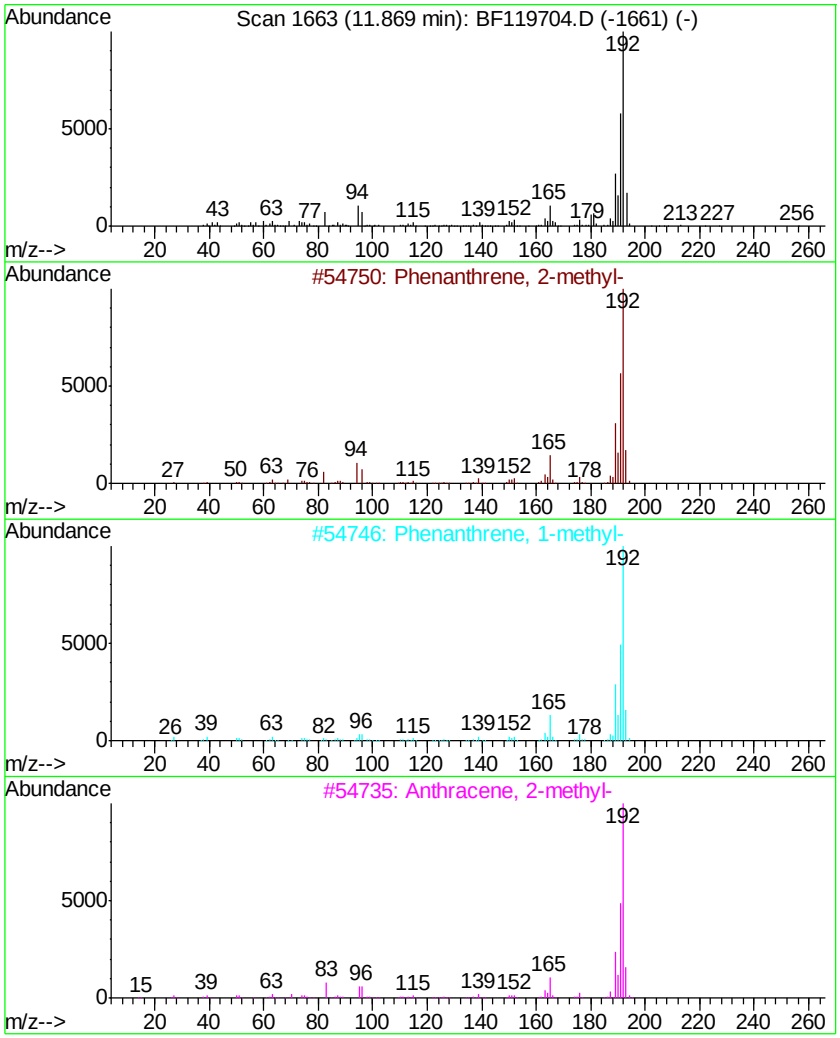
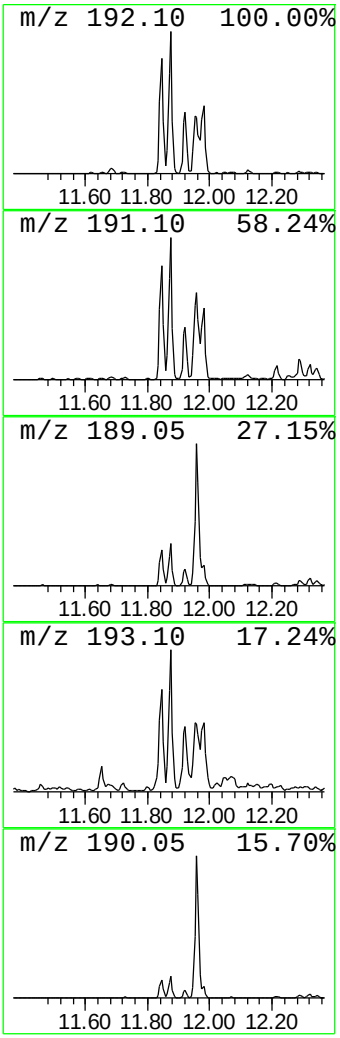
Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	11.60 ng	992107	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





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Operator : MA/SJ
Sample : L1759-16 5X
Misc :
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ClientSampleId : OR-03-033020

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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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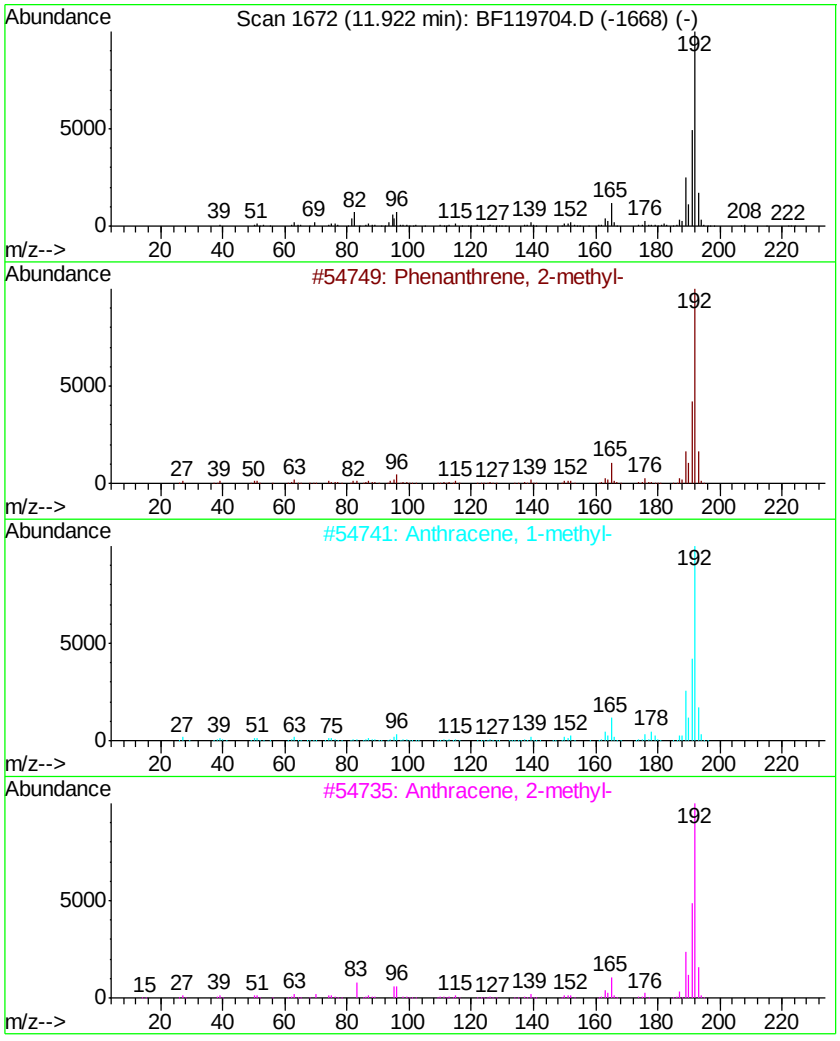
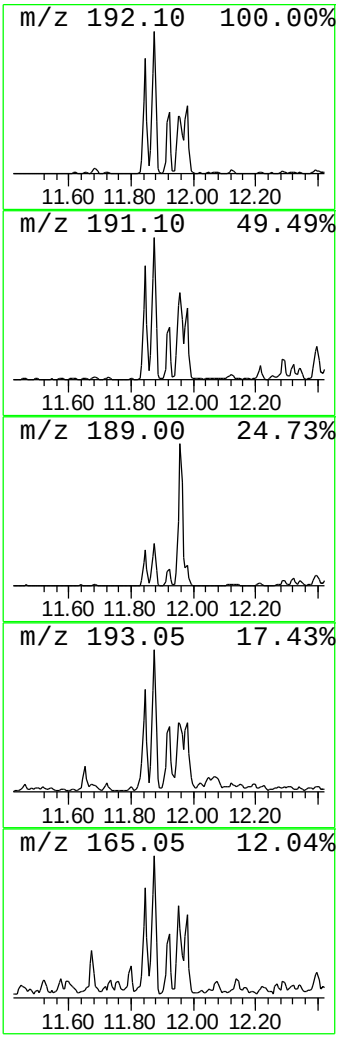
Peak Number 10 Anthracene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	4.90 ng	418628	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	95





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Misc :
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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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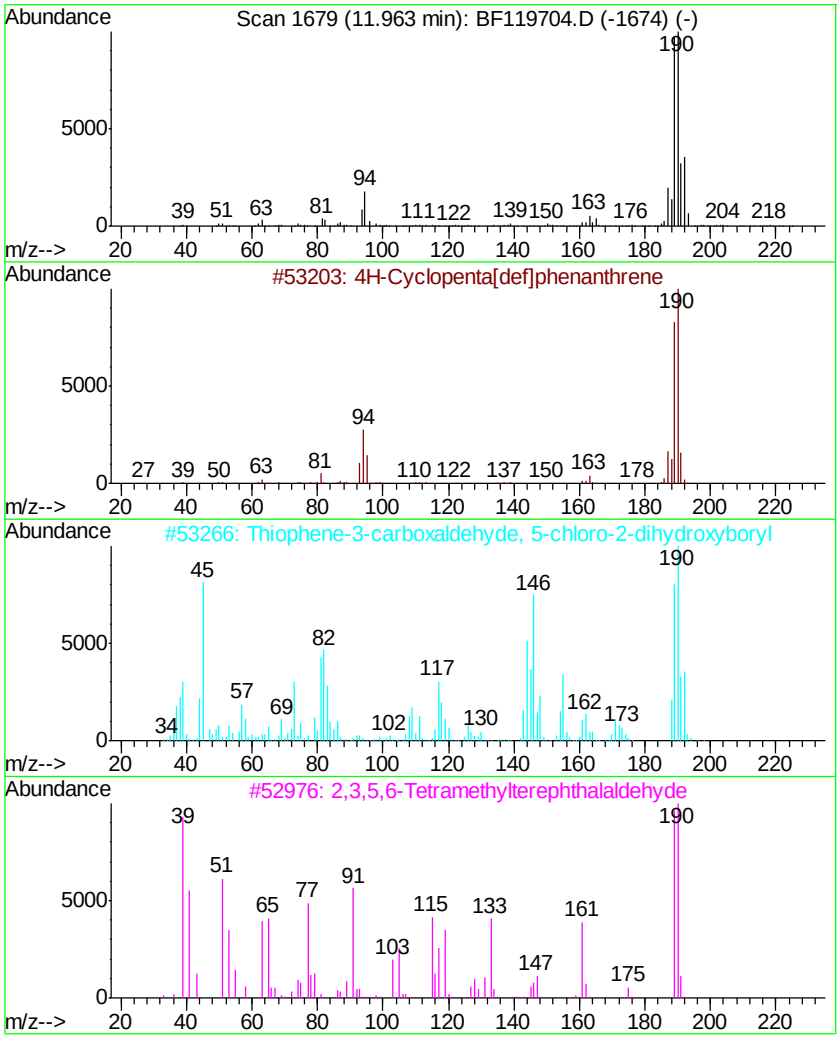
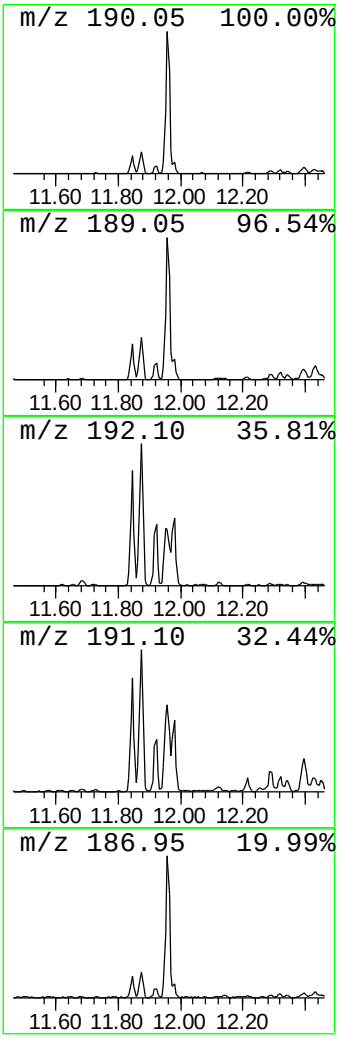
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	16.22 ng	1386310	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	47
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	45
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42





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Sample : L1759-16 5X
Misc :
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ClientSampleId : OR-03-033020

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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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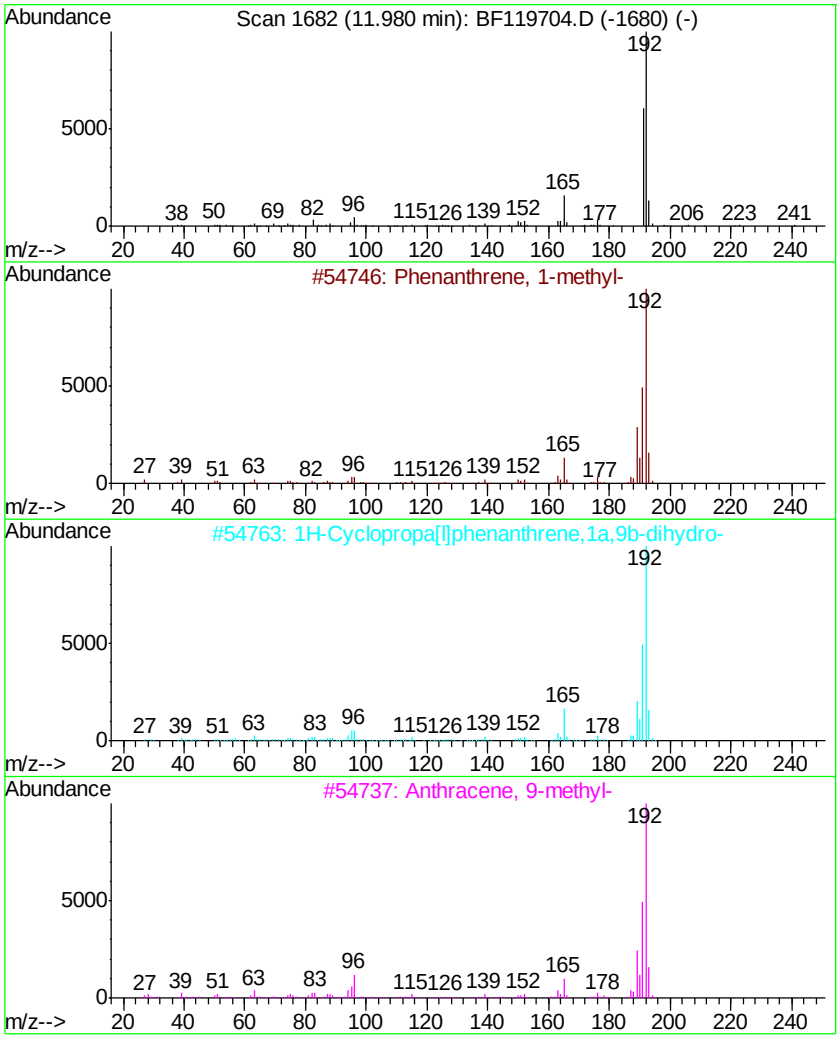
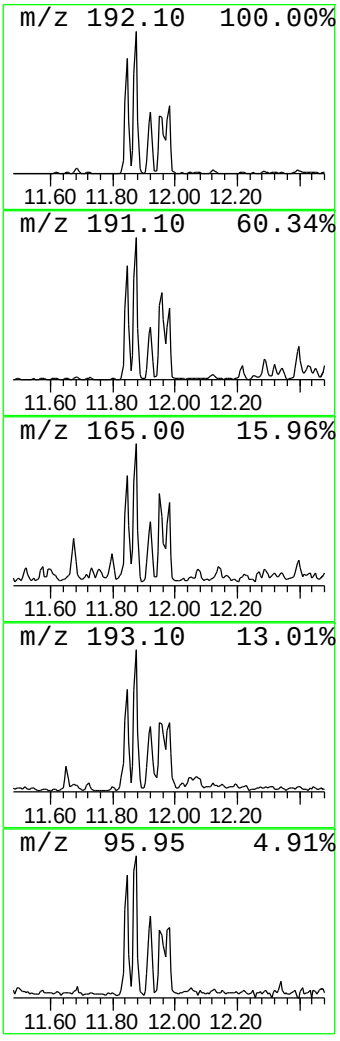
Peak Number 12 Phenanthrene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	4.80 ng	410335	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	87





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Sample : L1759-16 5X
Misc :
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ClientSampleId : OR-03-033020

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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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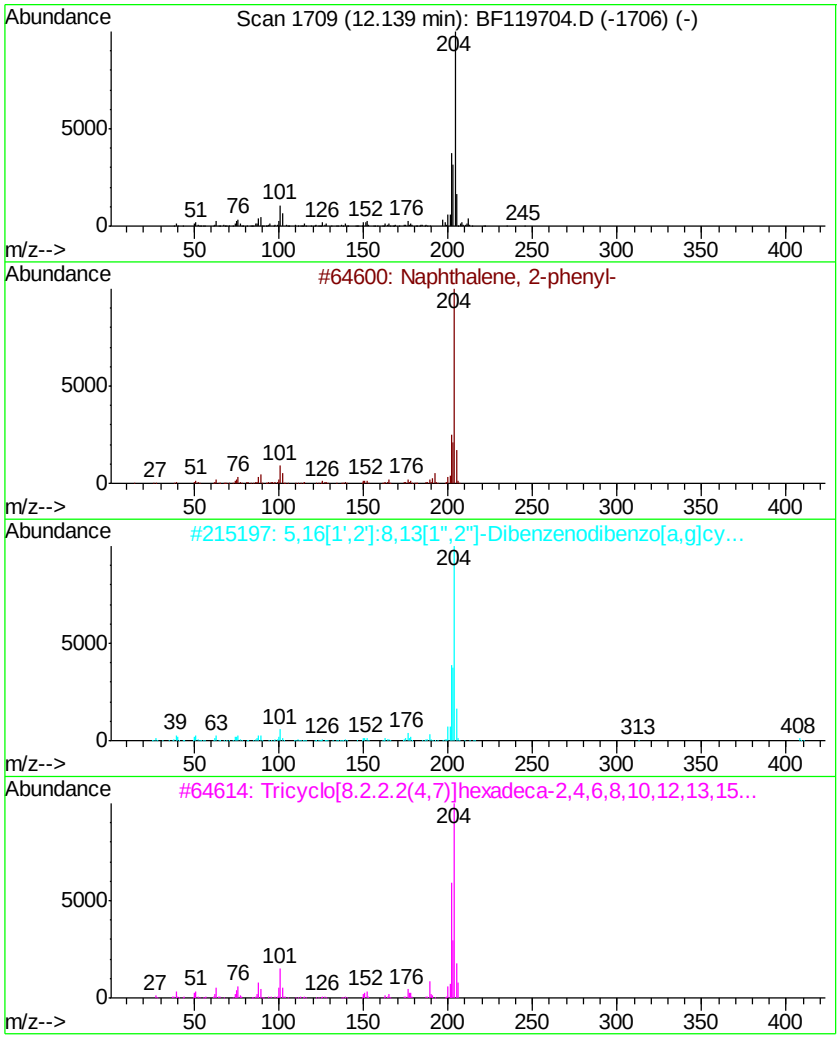
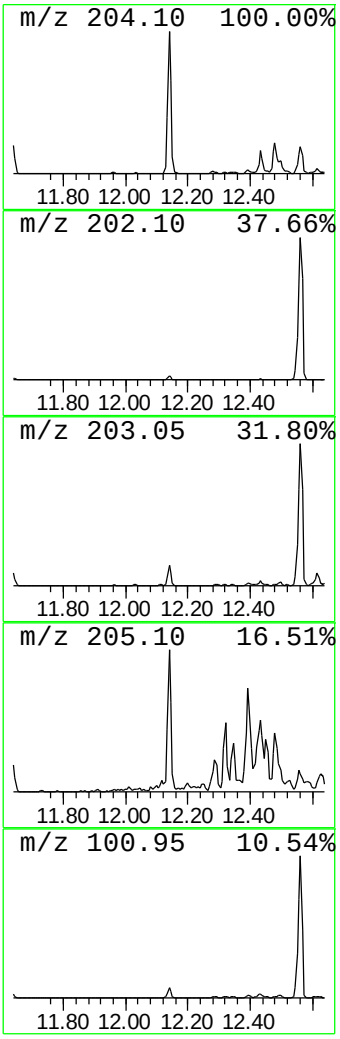
Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	5.34 ng	456290	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
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	74
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	60
5	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	58





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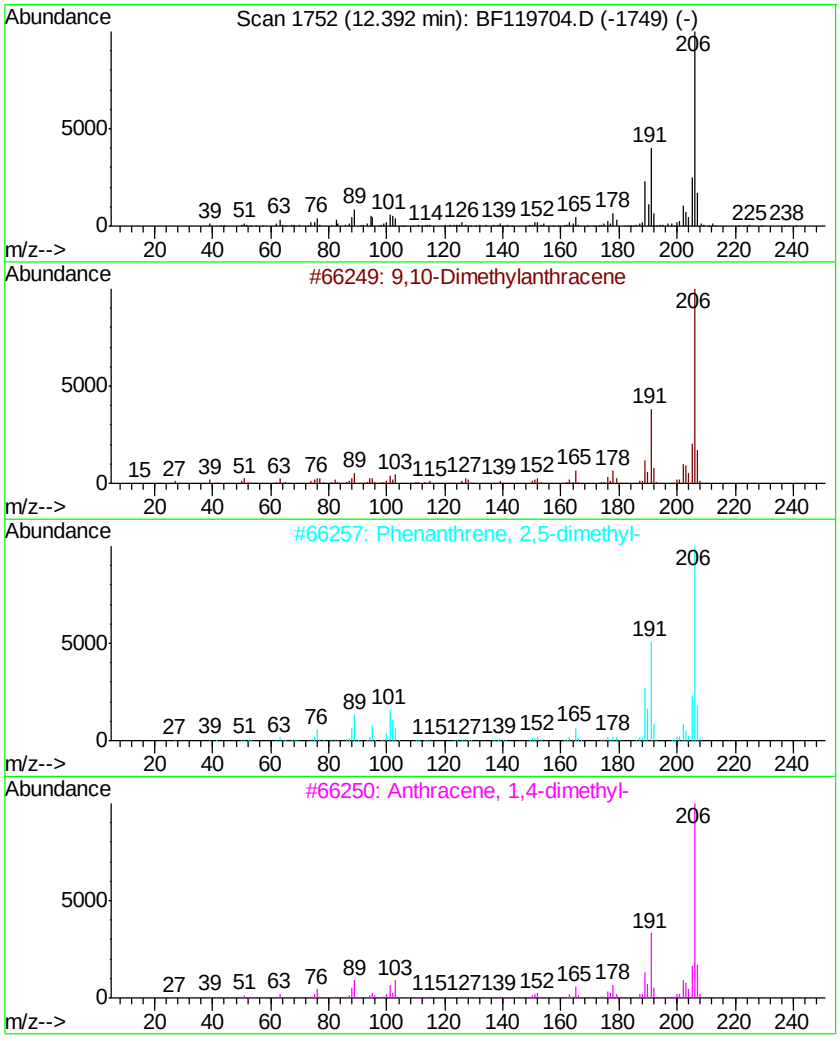
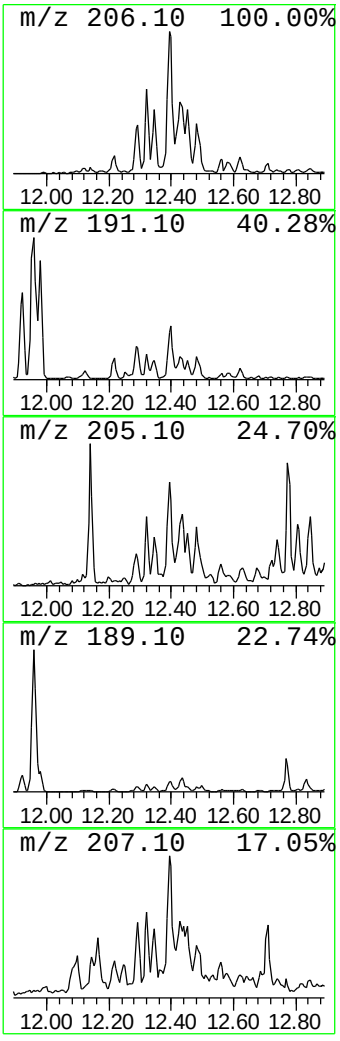
Peak Number 14 9,10-Dimethylanthracene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	4.67 ng	398996	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90





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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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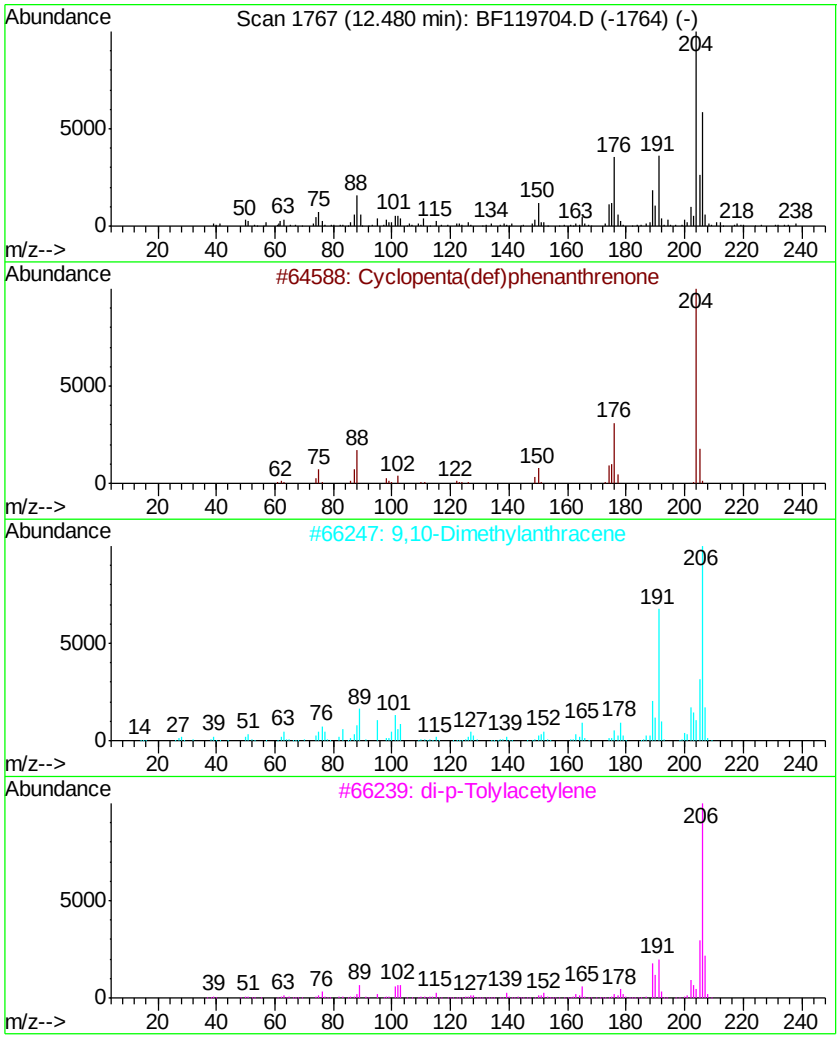
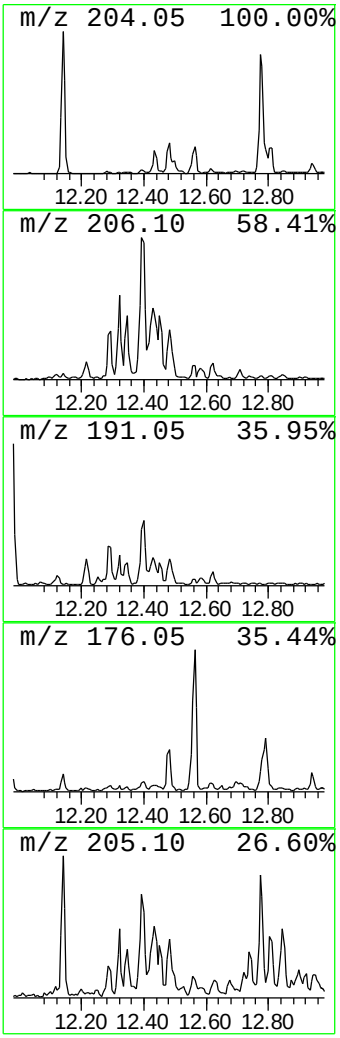
Peak Number 15 Cyclopenta(def)phenanthrenone Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.48	3.07 ng	262647	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	41
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	38
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	38
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	38





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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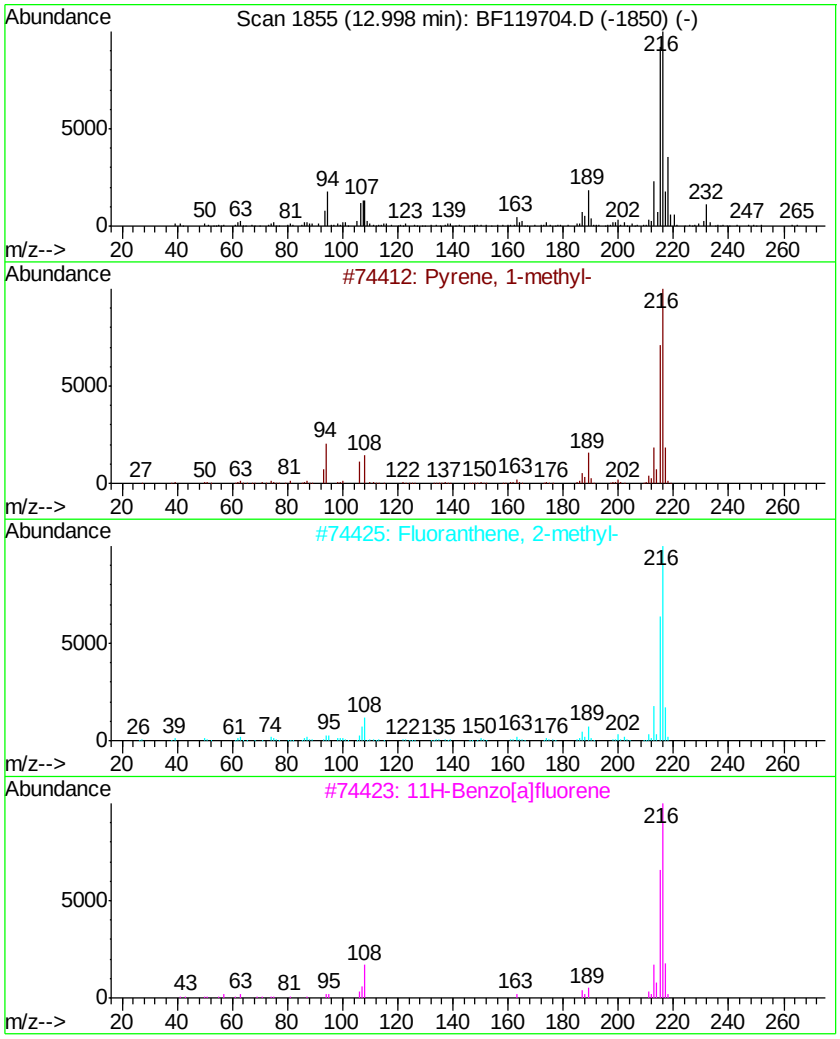
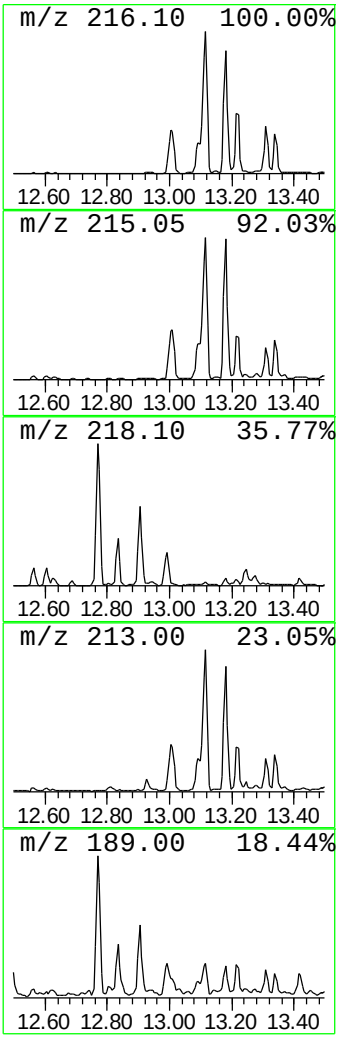
Peak Number 16 Pyrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	2.95 ng	571816	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	83





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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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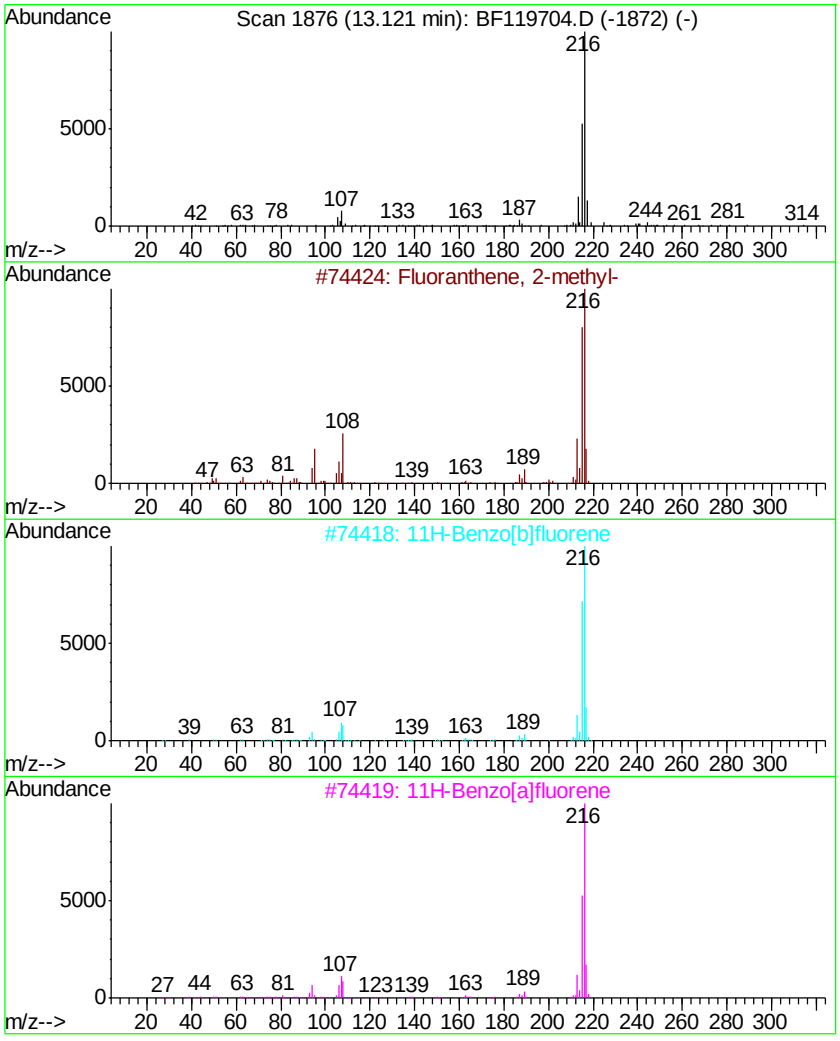
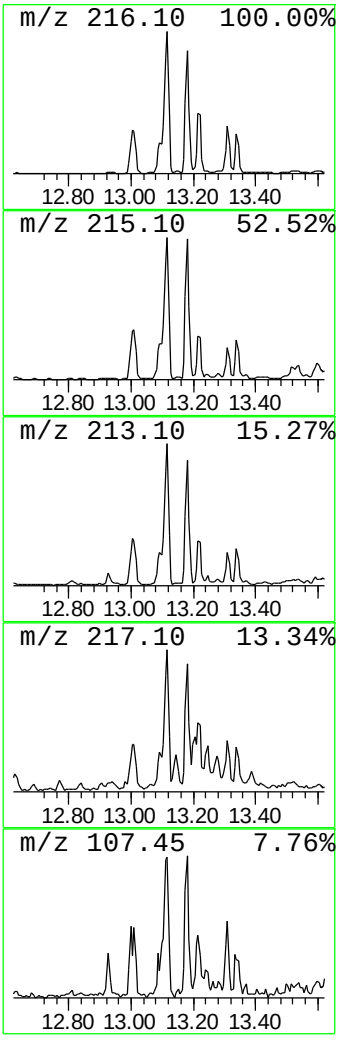
Peak Number 17 Fluoranthene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	4.08 ng	792743	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	76





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Sample : L1759-16 5X
Misc :
ALS Vial : 54 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-03-033020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.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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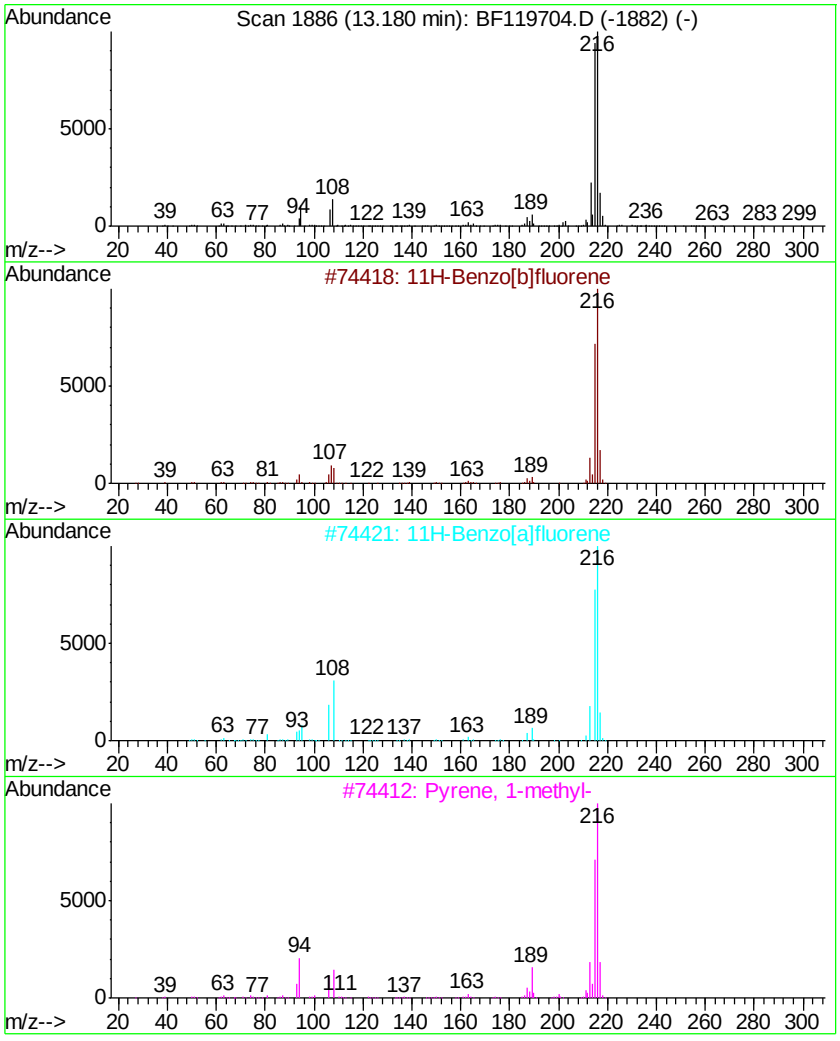
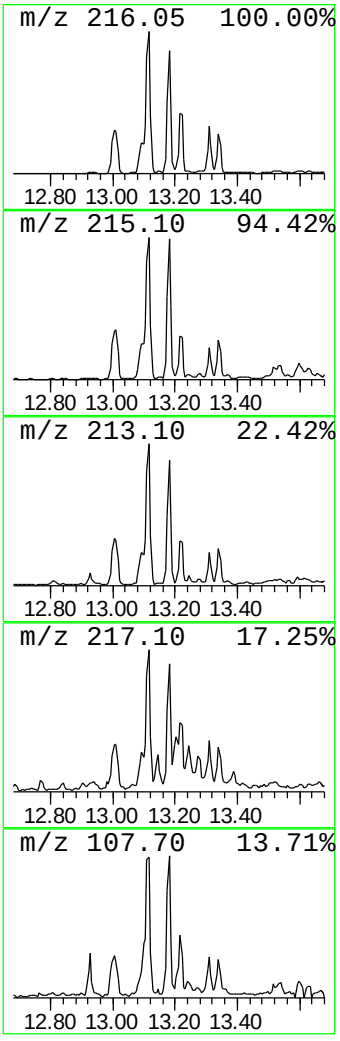
Peak Number 18 11H-Benzo[b]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.18	3.35 ng	651049	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	70





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040120\
Data File : BF119704.D
Acq On : 2 Apr 2020 8:28
Operator : MA/SJ
Sample : L1759-16 5X
Misc :
ALS Vial : 54 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-03-033020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.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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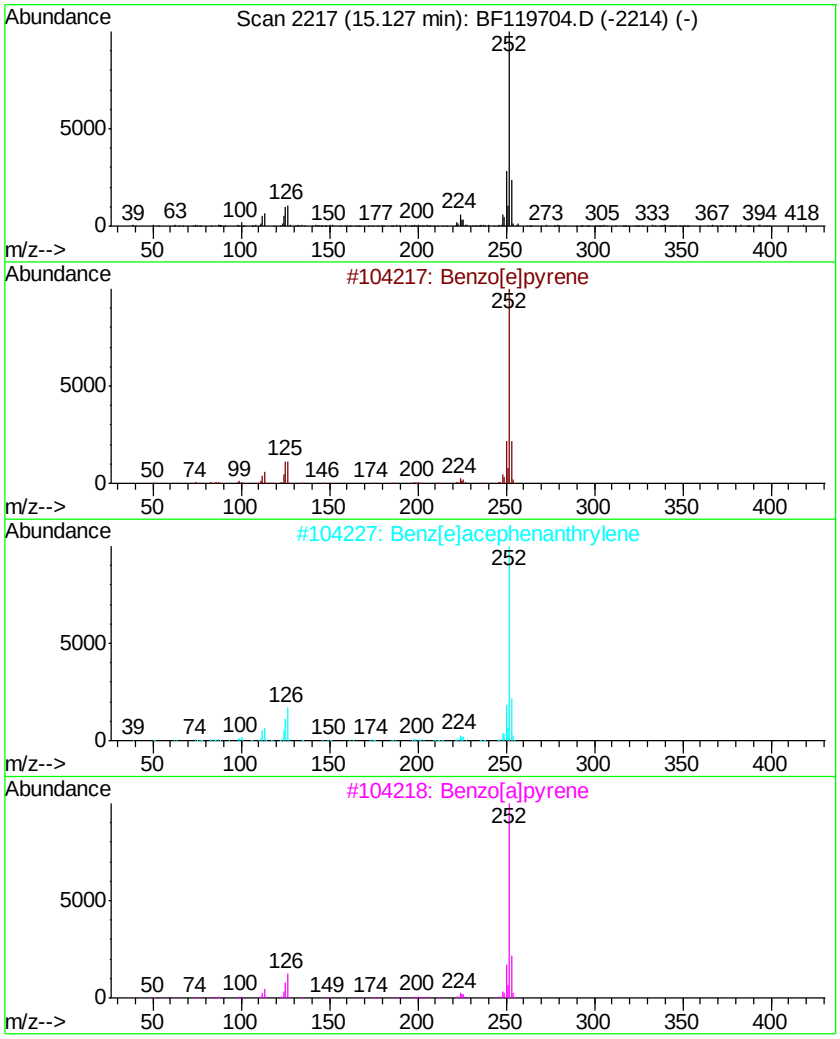
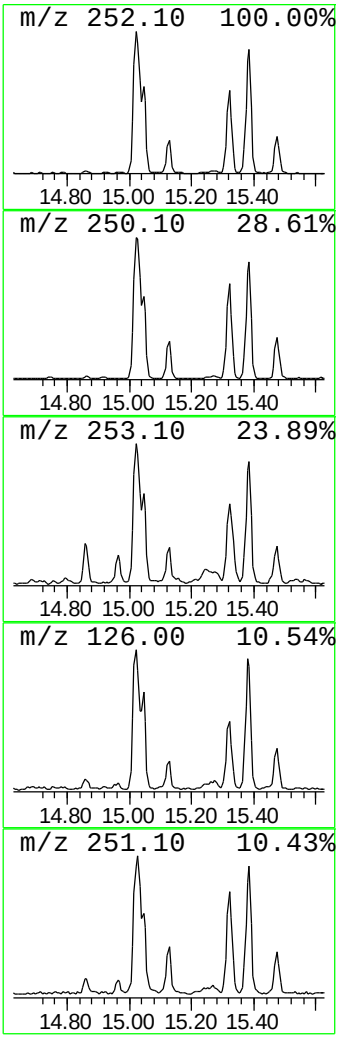
Peak Number 19 Benzo[e]pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.13	6.13 ng	317416	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
3	Benzo[a]pyrene	252	C20H12	000050-32-8	90
4	Perylene	252	C20H12	000198-55-0	81
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	81





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040120\
Data File : BF119704.D
Acq On : 2 Apr 2020 8:28
Operator : MA/SJ
Sample : L1759-16 5X
Misc :
ALS Vial : 54 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-03-033020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.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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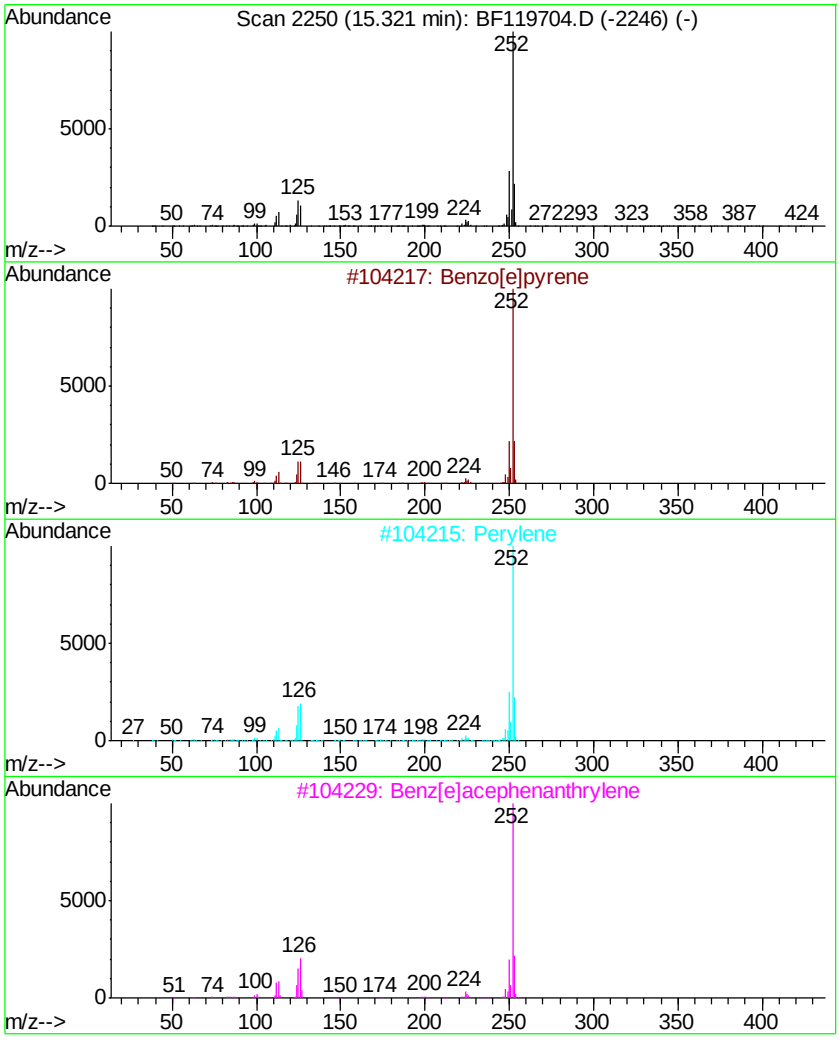
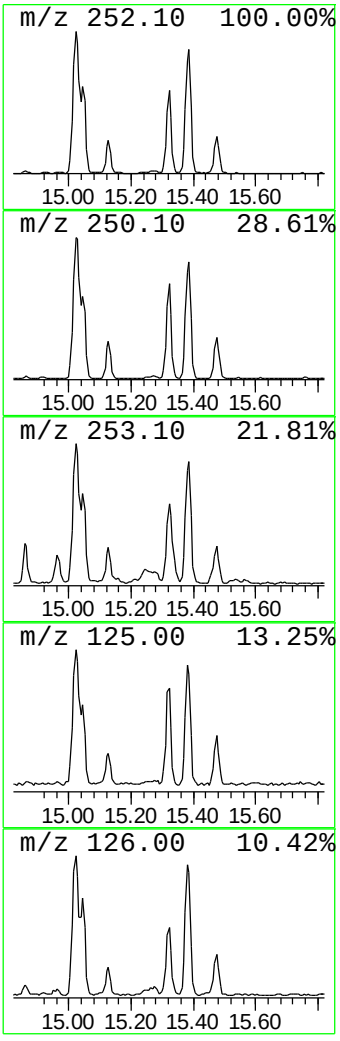
Peak Number 20 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.32	21.34 ng	1105270	Perylene-d12	15.44

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	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF040120\
Data File : BF119704.D
Acq On : 2 Apr 2020 8:28
Operator : MA/SJ
Sample : L1759-16 5X
Misc :
ALS Vial : 54 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-03-033020

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF031820.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, 1,7-...	9.44	4.0	ng	369933	3	9.86	1858690	20.0
Naphthalene, 2,6-...	9.51	4.7	ng	436791	3	9.86	1858690	20.0
Dibenzofuran, 4-m...	10.56	3.6	ng	331028	3	9.86	1858690	20.0
9H-Fluorene, 2-me...	10.95	4.9	ng	416892	4	11.35	1709830	20.0
8-Dimethylaminona...	11.19	3.2	ng	276081	4	11.35	1709830	20.0
Naphtho[2,1-b]thi...	11.24	6.1	ng	523087	4	11.35	1709830	20.0
Anthracene, 2-met...	11.85	9.0	ng	767864	4	11.35	1709830	20.0
Phenanthrene, 2-m...	11.87	11.6	ng	992107	4	11.35	1709830	20.0
Anthracene, 1-met...	11.92	4.9	ng	418628	4	11.35	1709830	20.0
4H-Cyclopenta[def...	11.96	16.2	ng	1386310	4	11.35	1709830	20.0
Phenanthrene, 1-m...	11.98	4.8	ng	410335	4	11.35	1709830	20.0
Naphthalene, 2-ph...	12.14	5.3	ng	456290	4	11.35	1709830	20.0
9,10-Dimethylanth...	12.39	4.7	ng	398996	4	11.35	1709830	20.0
Cyclopenta(def)ph...	12.48	3.1	ng	262647	4	11.35	1709830	20.0
Pyrene, 1-methyl-	13.00	3.0	ng	571816	5	13.99	3881410	20.0
Fluoranthene, 2-m...	13.12	4.1	ng	792743	5	13.99	3881410	20.0
11H-Benzo[b]fluorene	13.18	3.4	ng	651049	5	13.99	3881410	20.0
Benzo[e]pyrene	15.13	6.1	ng	317416	6	15.44	1036060	20.0
Perylene	15.32	21.3	ng	1105270	6	15.44	1036060	20.0