LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121607.D
Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

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-BF091020.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	5.439	567	570	585	rBV	861223	886787	24.40%	1.703%
2	6.457	739	743	759	rBV	973414	928678	25.55%	1.784%
3	6.822	801	805	809	rBV	1312502	1119276	30.79%	2.150%
4	7.380	896	900	906	rBV	718366	602526	16.58%	1.157%
5	8.104	1018	1023	1025	rBV	1593882	1442513	39.69%	2.771%
6	8.127	1025	1027	1030	rVV	805895	620646	17.08%	1.192%
7	8.816	1141	1144	1150	rBV	241628	207900	5.72%	0.399%
8	8.916	1157	1161	1166	rBV	204510	168359	4.63%	0.323%
9	9.180	1201	1206	1209	rBV	1292322	1079171	29.69%	2.073%
10	9.280	1221	1223	1228	rVB	98346	82056	2.26%	0.158%
11	9.439	1245	1250	1255	rBV	86350	123571	3.40%	0.237%
12	9.516	1258	1263	1266	rVV	175216	181678	5.00%	0.349%
13	9.545	1266	1268	1270	rVV	115495	90955	2.50%	0.175%
14	9.574	1270	1273	1276	rVV	110893	108292	2.98%	0.208%
15	9.633	1276	1283	1288	rVB2	90195	113288	3.12%	0.218%
16	9.716	1294	1297	1301	rVB	229069	211893	5.83%	0.407%
17	9.857	1315	1321	1324	rBV	1677388	1591356	43.78%	3.057%
18	9.892	1324	1327	1330	rVV	910826	757080	20.83%	1.454%
19	10.016	1343	1348	1352	rBV2	84419	95267	2.62%	0.183%
20	10.063	1352	1356	1360	rVV	481445	423106	11.64%	0.813%
21	10.174	1371	1375	1378	rBV2	78317	84046	2.31%	0.161%
22	10.263	1386	1390	1392	rBV	65307	77747	2.14%	0.149%
23	10.404	1410	1414	1419	rVB	720374	628497	17.29%	1.207%
24	10.468	1424	1425	1427	rVV	102638	76875	2.12%	0.148%
25	10.492	1427	1429	1431	rVV	131890	112256	3.09%	0.216%
26	10.563	1438	1441	1444	rVV	199668	182369	5.02%	0.350%
27	10.645	1447	1455	1459	rVV	790580	794802	21.87%	1.527%
28	10.768	1471	1476	1482	rVB3	101161	142254	3.91%	0.273%
29	10.951	1501	1507	1510	rBV3	150053	227450	6.26%	0.437%
30	11.080	1524	1529	1531	rVV3	120018	155628	4.28%	0.299%
31	11.104	1531	1533	1537	rVV	122809	134638	3.70%	0.259%
32	11.145	1537	1540	1544	rVV	133587	137971	3.80%	0.265%
33	11.192	1544	1548	1553	rVV3	116479	218306	6.01%	0.419%
34	11.239	1553	1556	1562	rVB	293918	261723	7.20%	0.503%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121607.D
Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

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-BF091020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.345	1568	1574	1576	rBV	1492814	1538549	42.33%	2.955%
36	11.368	1576	1578	1581	rVV	3279156	3087945	84.96%	5.932%
37	11.421	1581	1587	1589	rVV	1135820	1121093	30.84%	2.154%
38	11.451	1589	1592	1595	rVB2	162112	149960	4.13%	0.288%
39	11.574	1606	1613	1615	rBV2	414295	447704	12.32%	0.860%
40	11.592	1615	1616	1621	rVV3	69850	84875	2.34%	0.163%
41	11.639	1621	1624	1627	rVV2	169445	157820	4.34%	0.303%
42	11.845	1653	1659	1661	rBV	409056	384508	10.58%	0.739%
43	11.868	1661	1663	1668	rVB	525788	497532	13.69%	0.956%
44	11.921	1668	1672	1674	rBV	285449	268975	7.40%	0.517%
45	11.957	1674	1678	1680	rVV	725221	734706	20.21%	1.411%
46	11.974	1680	1681	1686	rVB	240992	206987	5.69%	0.398%
47	12.045	1691	1693	1696	rVB2	110663	92925	2.56%	0.178%
48	12.139	1704	1709	1711	rBV	297719	251934	6.93%	0.484%
49	12.163	1711	1713	1716	rVB	163351	124478	3.42%	0.239%
50	12.286	1729	1734	1737	rBV	133194	144079	3.96%	0.277%
51	12.392	1746	1752	1755	rBV	227237	282141	7.76%	0.542%
52	12.433	1756	1759	1761	rVV	167281	160848	4.43%	0.309%
53	12.480	1764	1767	1772	rVB2	177846	216161	5.95%	0.415%
54	12.562	1776	1781	1784	rBV	3306504	3269834	89.96%	6.281%
55	12.651	1793	1796	1798	rVB	124373	107290	2.95%	0.206%
56	12.704	1798	1805	1808	rBV3	146814	252739	6.95%	0.485%
57	12.739	1808	1811	1813	rVB	169609	132666	3.65%	0.255%
58	12.792	1813	1820	1824	rBV2	2914935	3634725	100.00%	6.982%
59	12.833	1824	1827	1832	rVB3	165141	208152	5.73%	0.400%
60	12.904	1835	1839	1840	rBV	207564	200973	5.53%	0.386%
61	12.927	1840	1843	1850	rVB3	841531	1152319	31.70%	2.213%
62	13.004	1850	1856	1859	rBV3	235595	381547	10.50%	0.733%
63	13.086	1863	1870	1871	rBV5	198228	249134	6.85%	0.479%
64	13.110	1871	1874	1877	rVB2	472672	456644	12.56%	0.877%
65	13.174	1883	1885	1888	rVB	296293	256355	7.05%	0.492%
66	13.215	1888	1892	1895	rBV2	348838	373954	10.29%	0.718%
67	13.268	1899	1901	1905	rBV2	73665	87928	2.42%	0.169%
68	13.309	1905	1908	1910	rVB	151078	141803	3.90%	0.272%
69	13.339	1910	1913	1916	rBV2	187573	188172	5.18%	0.361%
70	13.415	1922	1926	1930	rVB4	70712	99078	2.73%	0.190%
71	13.509	1936	1942	1944	rBV6	81764	180104	4.96%	0.346%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121607.D
Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

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-BF091020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.615	1958	1960	1965	rVB	184980	207538	5.71%	0.399%
73	13.727	1975	1979	1982	rBV2	191907	247401	6.81%	0.475%
74	13.757	1982	1984	1986	rVV	262695	214928	5.91%	0.413%
75	13.780	1986	1988	1993	rVV2	225361	275446	7.58%	0.529%
76	13.827	1993	1996	1998	rVV	178771	146633	4.03%	0.282%
77	13.974	2014	2021	2025	rBV2	1930886	3032639	83.44%	5.825%
78	14.009	2025	2027	2032	rVB	1458756	1217343	33.49%	2.338%
79	14.086	2037	2040	2043	rBV	346587	270968	7.45%	0.521%
80	14.168	2052	2054	2056	rVB	108476	81416	2.24%	0.156%
81	14.204	2056	2060	2063	rVB2	133342	172423	4.74%	0.331%
82	14.368	2084	2088	2090	rVV	281943	300982	8.28%	0.578%
83	14.398	2091	2093	2097	rVB	136311	117692	3.24%	0.226%
84	14.456	2100	2103	2106	rVV2	165017	223549	6.15%	0.429%
85	14.492	2106	2109	2110	rVV	169316	165596	4.56%	0.318%
86	14.509	2110	2112	2116	rVB3	172626	164954	4.54%	0.317%
87	14.609	2126	2129	2132	rBV2	140989	137747	3.79%	0.265%
88	14.668	2137	2139	2142	rBV2	96268	113620	3.13%	0.218%
89	14.833	2165	2167	2169	rBV2	81065	92384	2.54%	0.177%
90	15.015	2193	2198	2201	rBV	1240283	1975987	54.36%	3.796%
91	15.121	2213	2216	2219	rVB	332504	324412	8.93%	0.623%
92	15.315	2244	2249	2255	rVB	831681	1155191	31.78%	2.219%
93	15.380	2255	2260	2265	rVB	1316151	1619972	44.57%	3.112%
94	15.439	2265	2270	2273	rBV	858658	1164023	32.03%	2.236%
95	15.468	2273	2275	2281	rVB	426837	466854	12.84%	0.897%
96	16.874	2508	2514	2523	rVB2	577598	1131828	31.14%	2.174%
97	17.045	2539	2543	2548	rBV2	104631	172601	4.75%	0.332%
98	17.103	2549	2553	2558	rBV2	85262	157775	4.34%	0.303%
99	17.309	2582	2588	2601	rVB	441492	965813	26.57%	1.855%
100	17.539	2622	2627	2641	rVB	154561	345717	9.51%	0.664%

Sum of corrected areas: 52059029

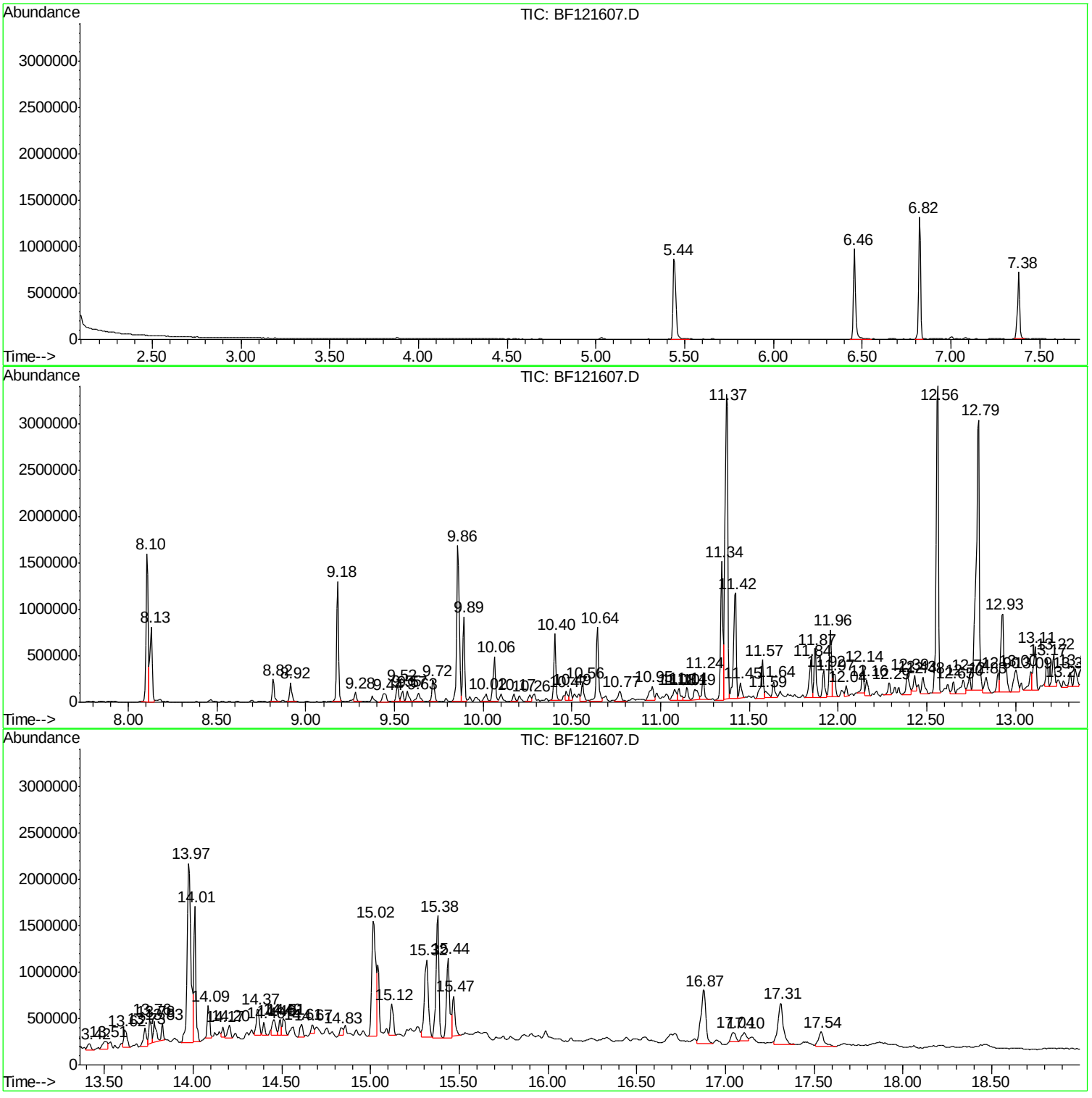
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121607.D
Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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\BF091720\
Data File : BF121607.D
Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

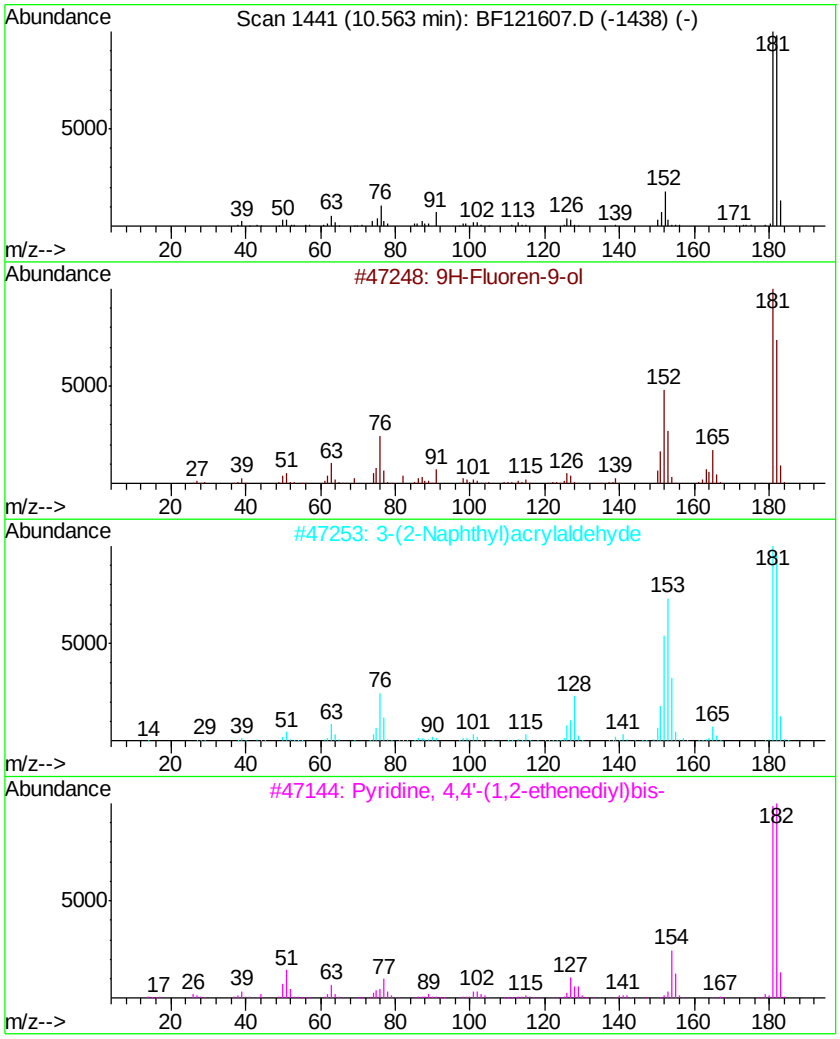
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

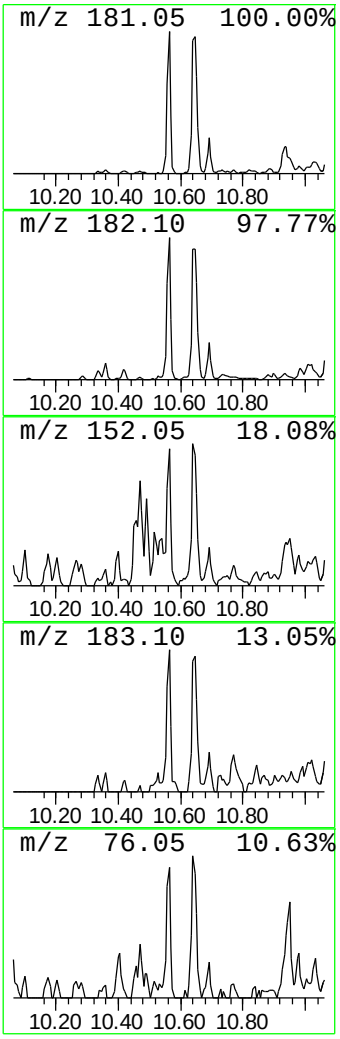
****

Peak Number 1 9H-Fluoren-9-ol Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.56	2.29 ng	182369	Acenaphthene-d10	9.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
2	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	72
3	Pyridine, 4,4'-(1,2-ethenediyl)bis-	182	C12H10N2	001135-32-6	72
4	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	72
5	Norharmane, N-methyl-	182	C12H10N2	1000374-78-6	72





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121607.D
Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

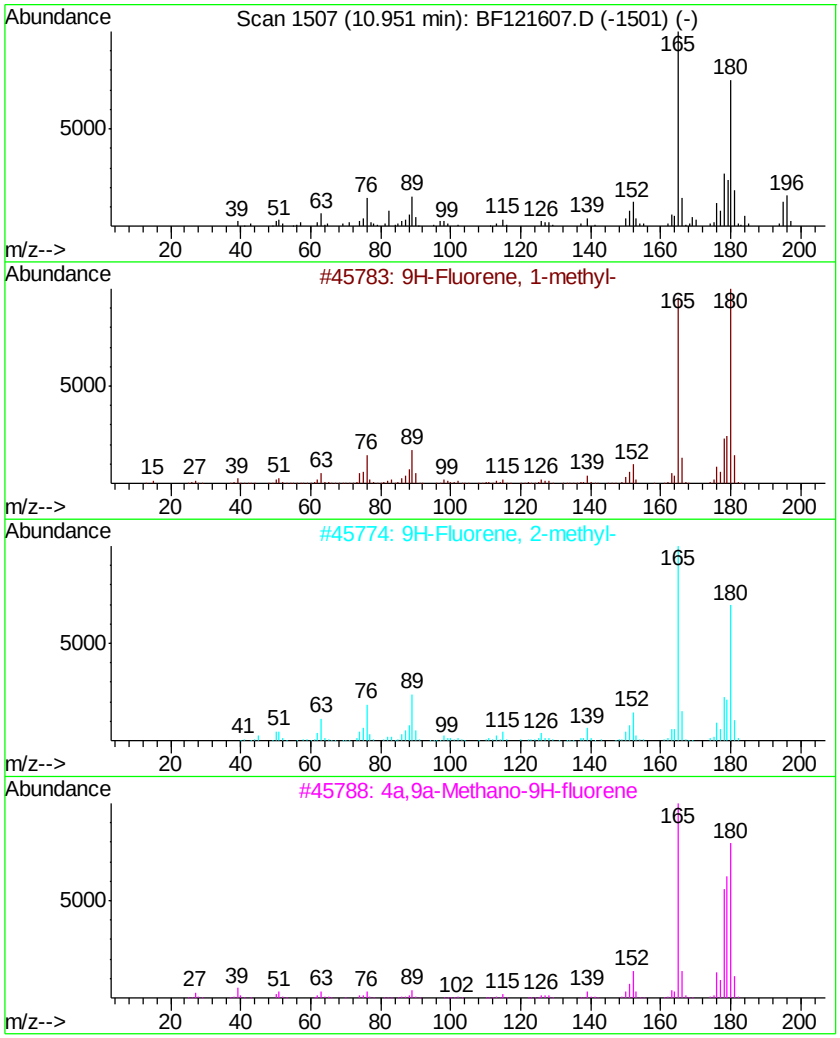
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

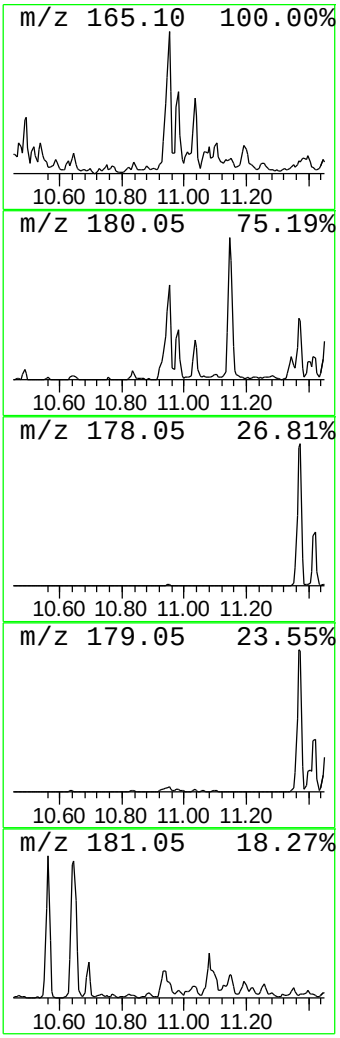
****

Peak Number 2 9H-Fluorene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	2.96 ng	227450	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	97
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	91
4	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	89
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	86





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121607.D
Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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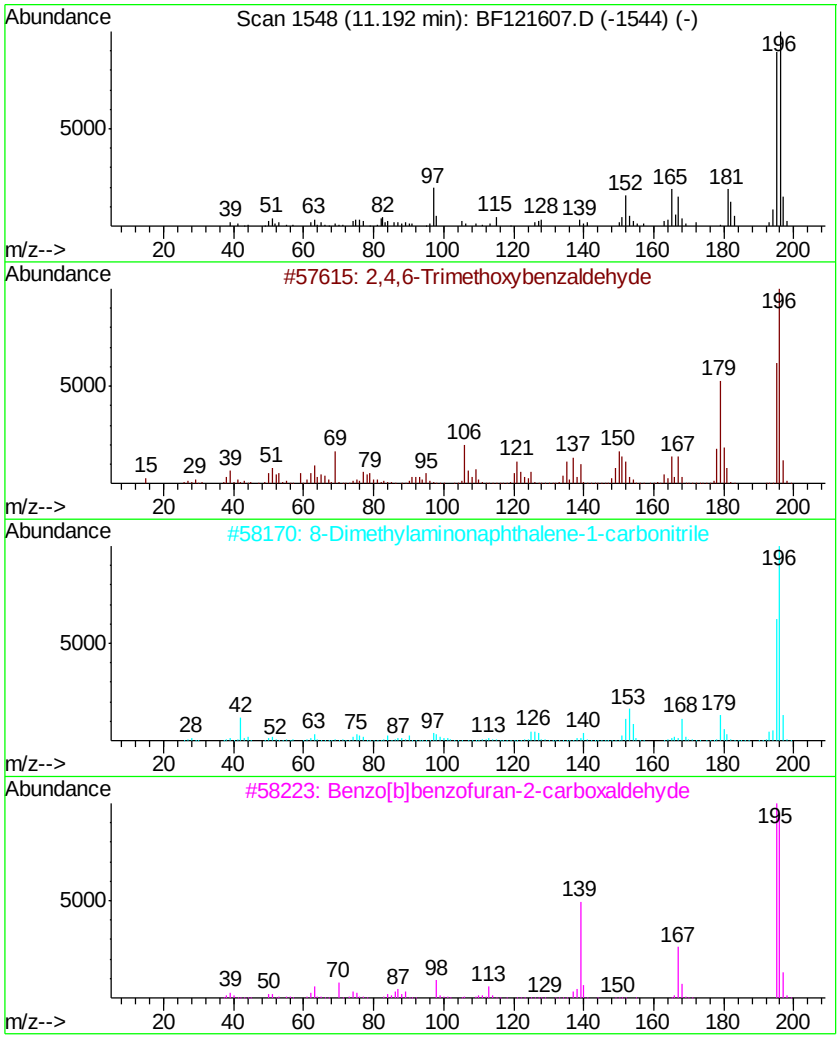
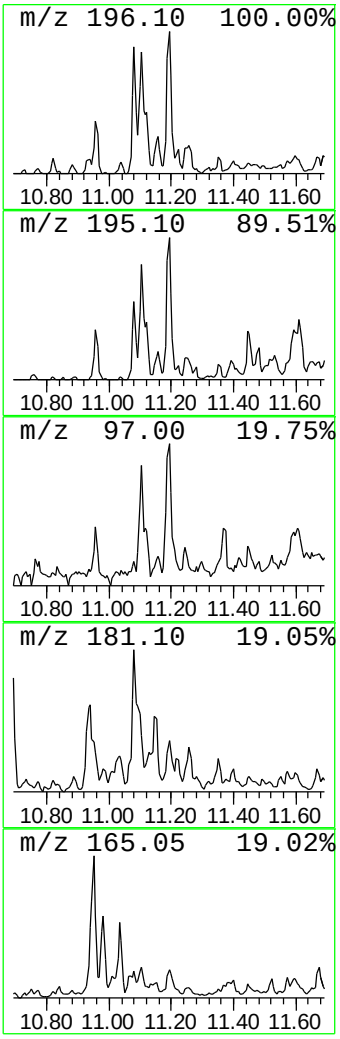
Peak Number 3 2,4,6-Trimethoxybenzaldehyde Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.19	2.84 ng	218306	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,6-Trimethoxybenzaldehyde	196	C10H12O4	000830-79-5	72
2	8-Dimethylaminonaphthalene-1-car...	196	C13H12N2	128644-69-9	64
3	Benzo[b]benzofuran-2-carboxaldehyde	196	C13H8O2	1000351-56-0	62
4	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	60
5	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	58





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121607.D
Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

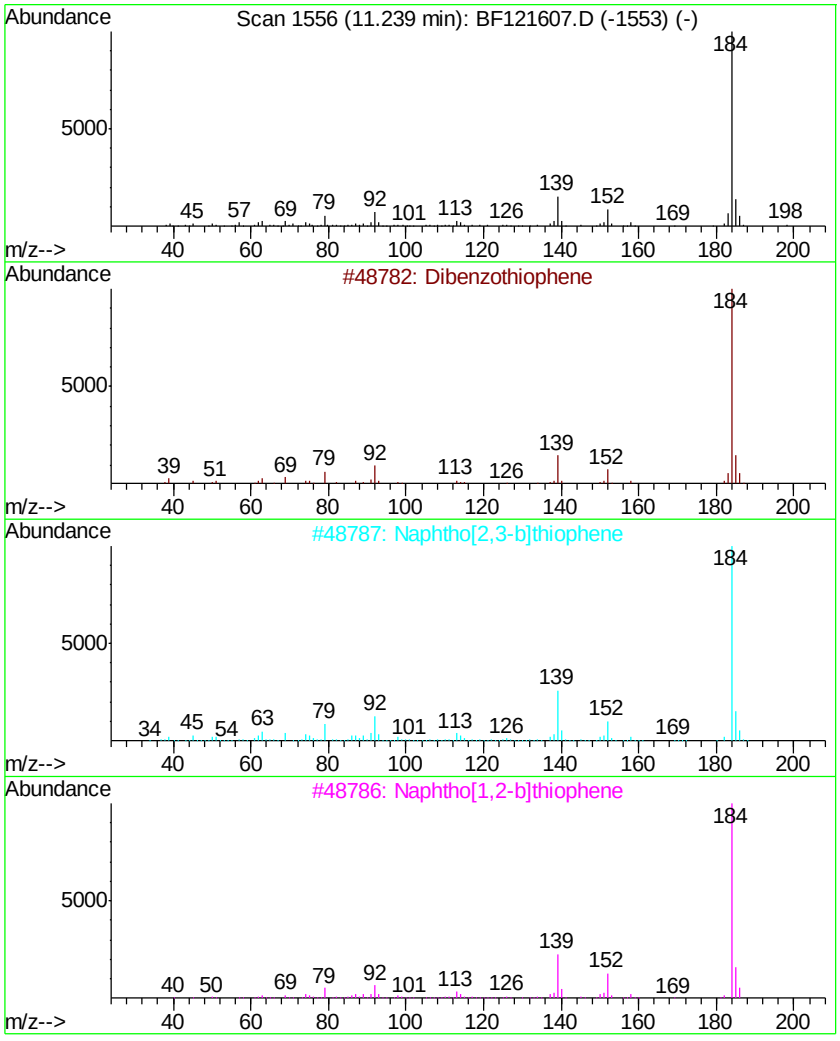
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

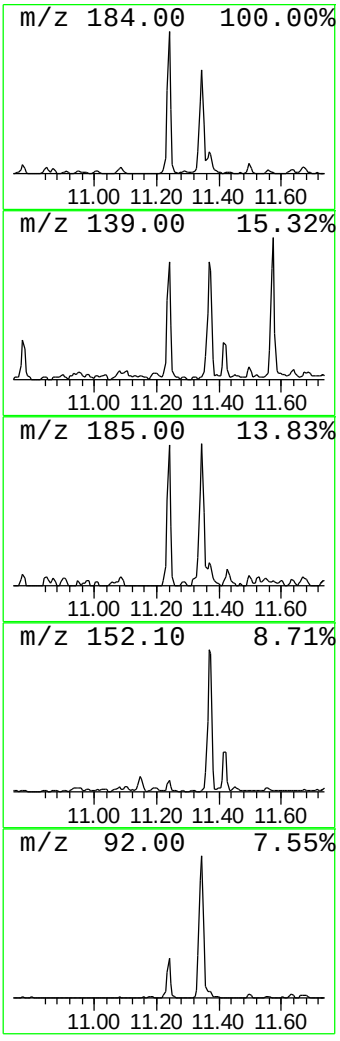
****

Peak Number 4 Dibenzothiophene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.24	3.40 ng	261723	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121607.D
Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

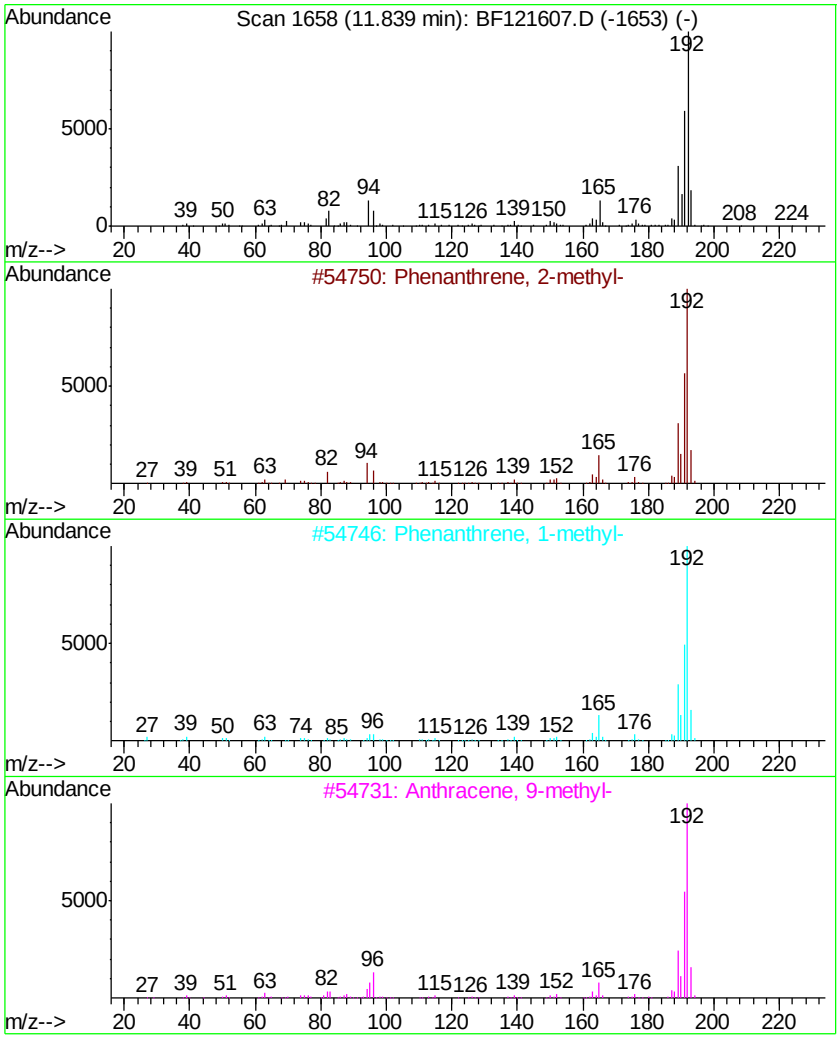
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

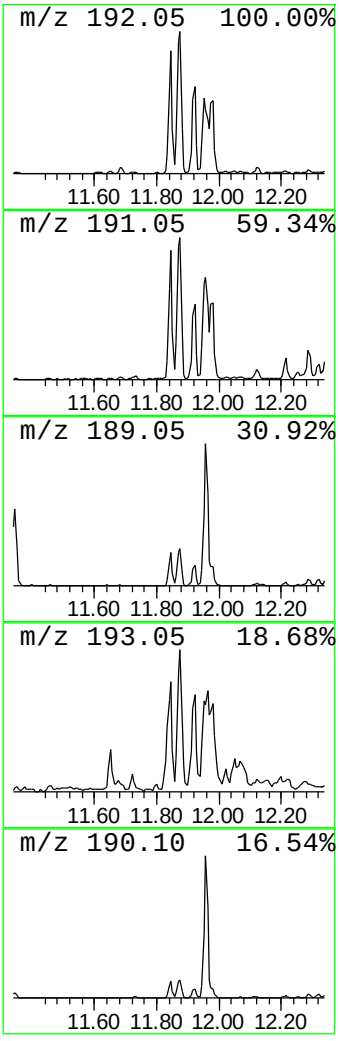
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.84	5.00 ng	384508	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





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Data File : BF121607.D
Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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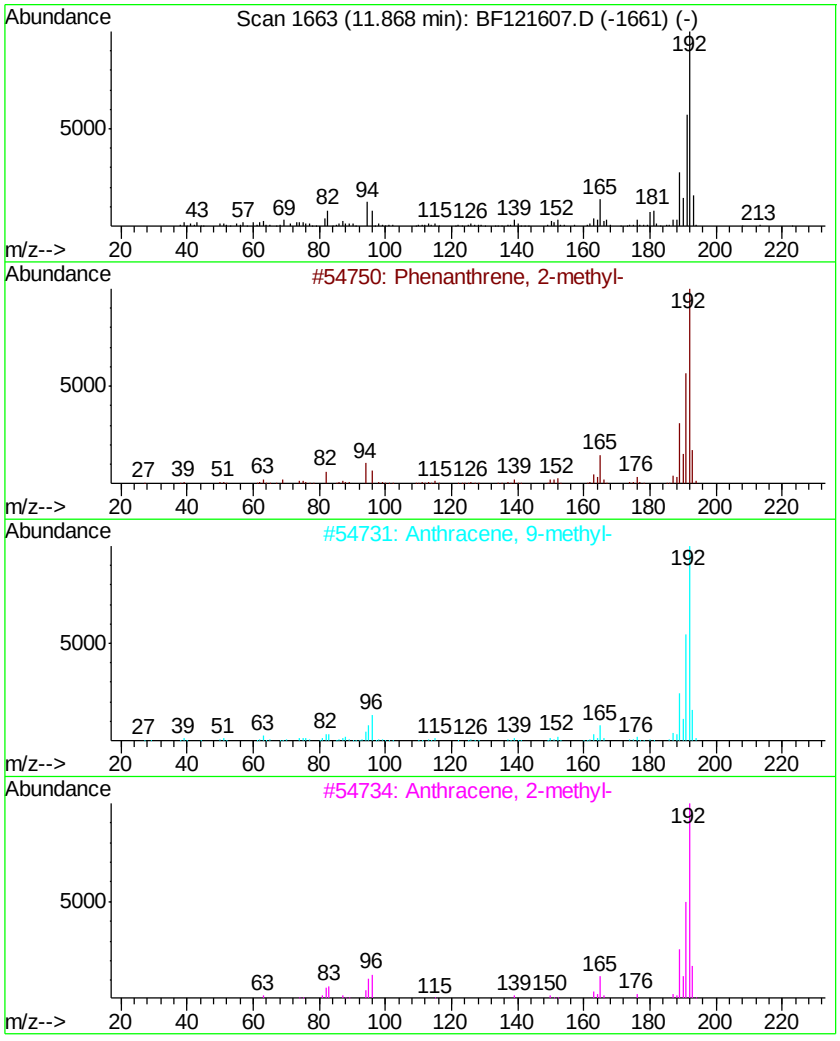
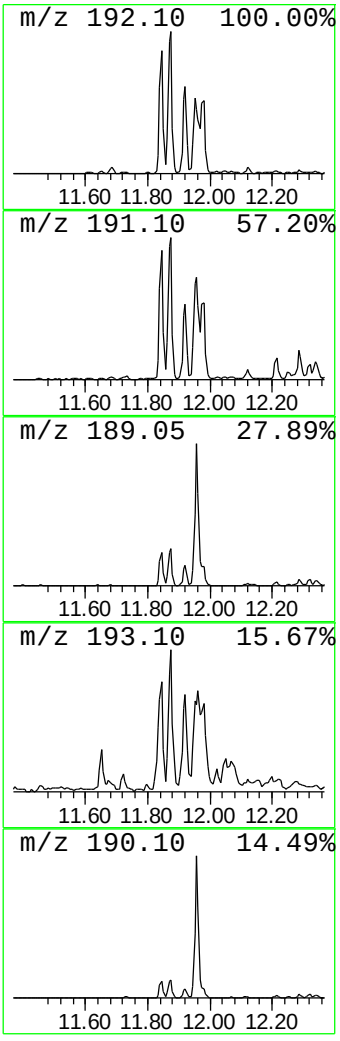
Peak Number 6 Anthracene, 9-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	6.47 ng	497532	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	94
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93





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Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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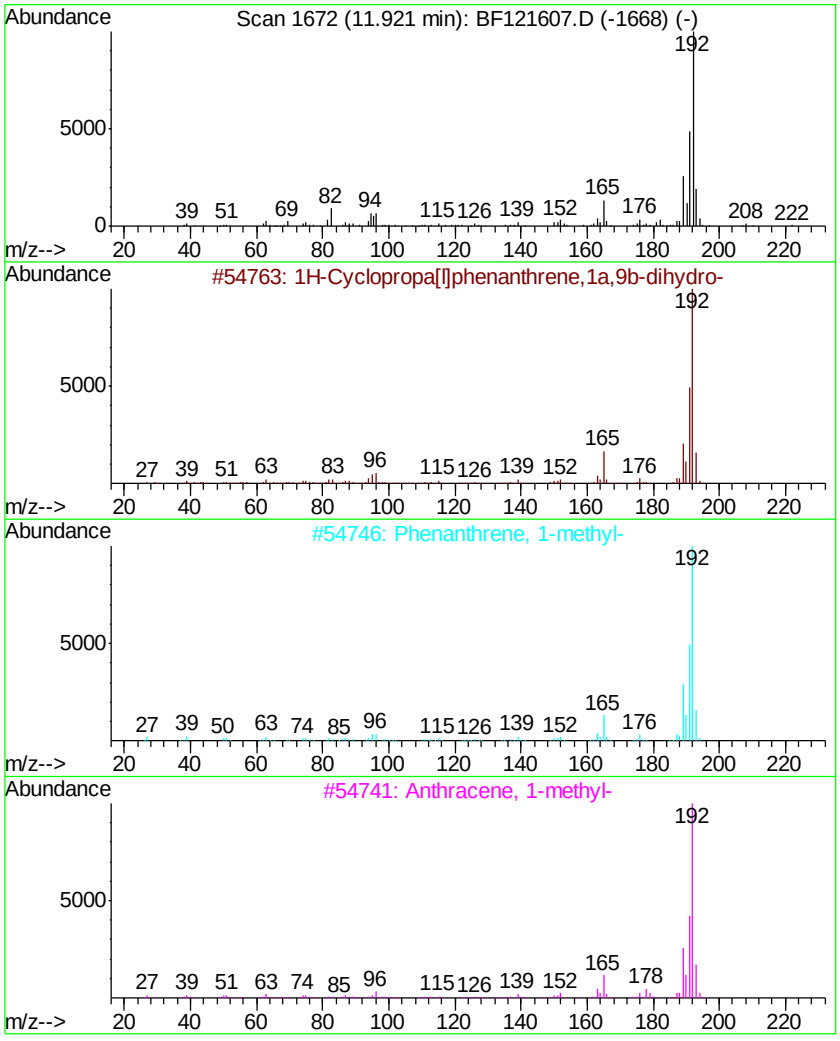
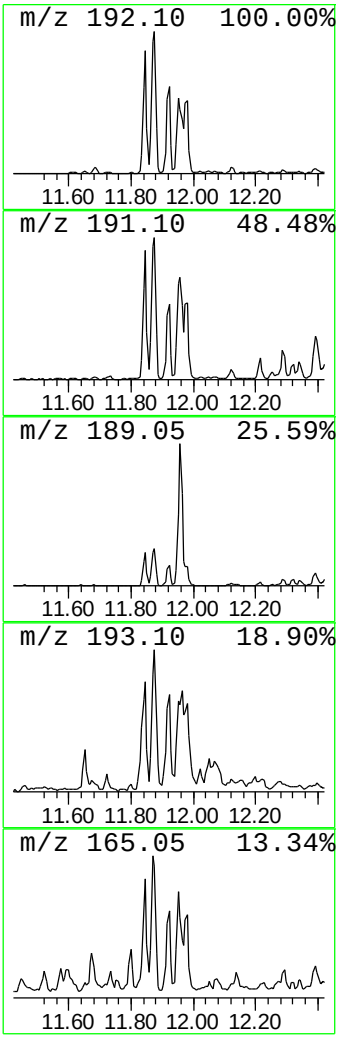
Peak Number 7 1H-Cyclopropa[l]phenanthren... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	3.50 ng	268975	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95





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Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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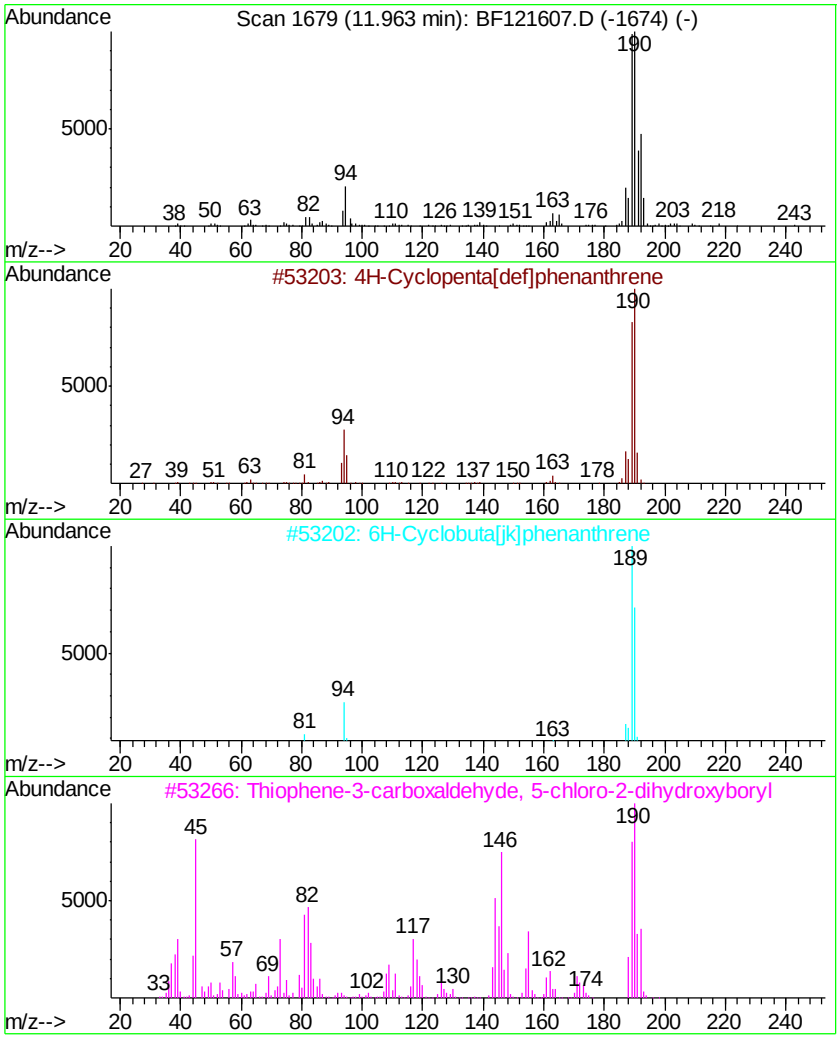
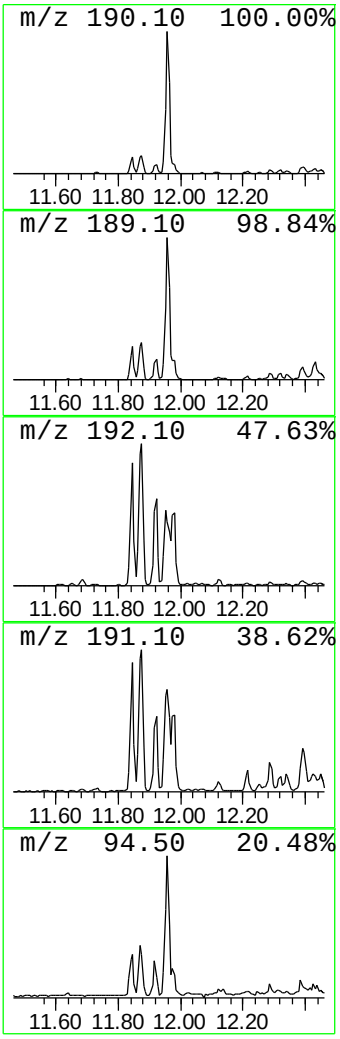
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	9.55 ng	734706	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	72
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
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Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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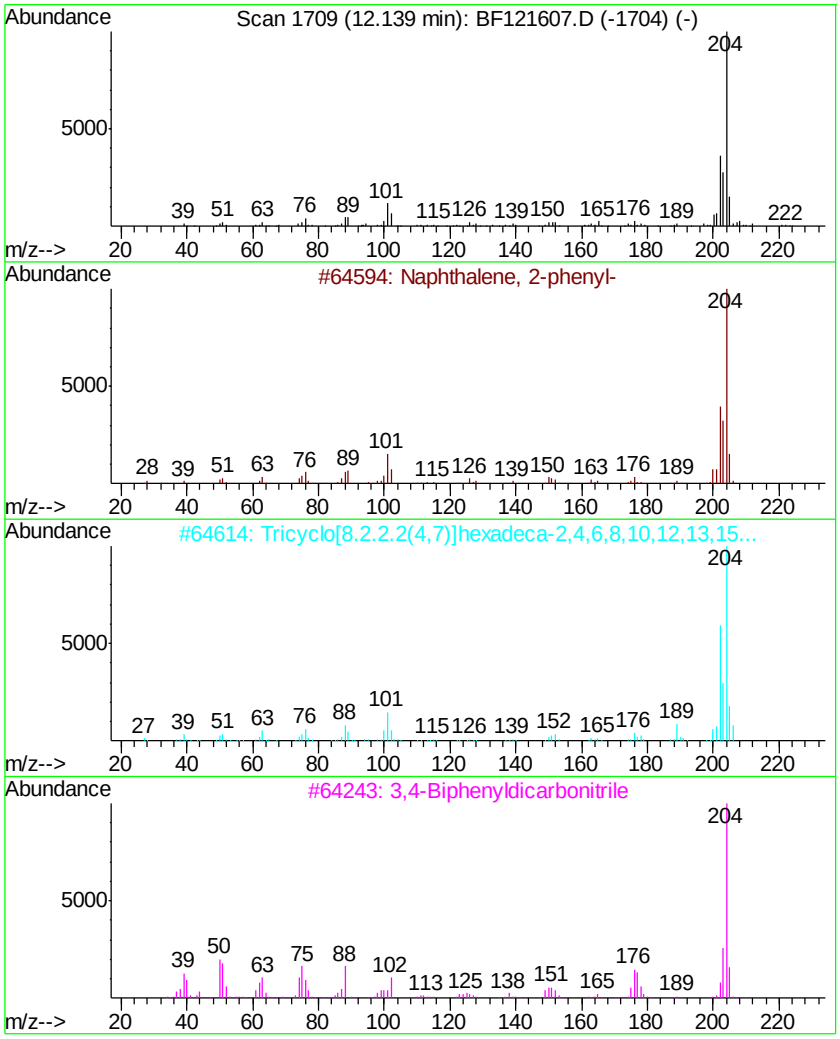
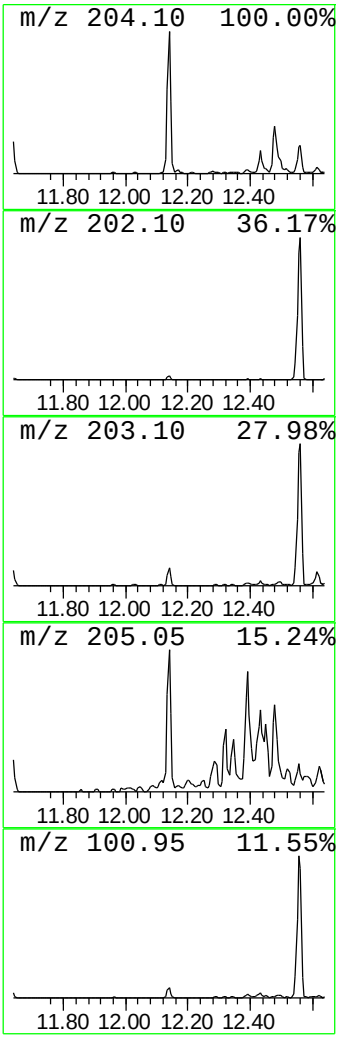
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	3.27 ng	251934	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	81
3	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	59
4	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	58
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	58





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Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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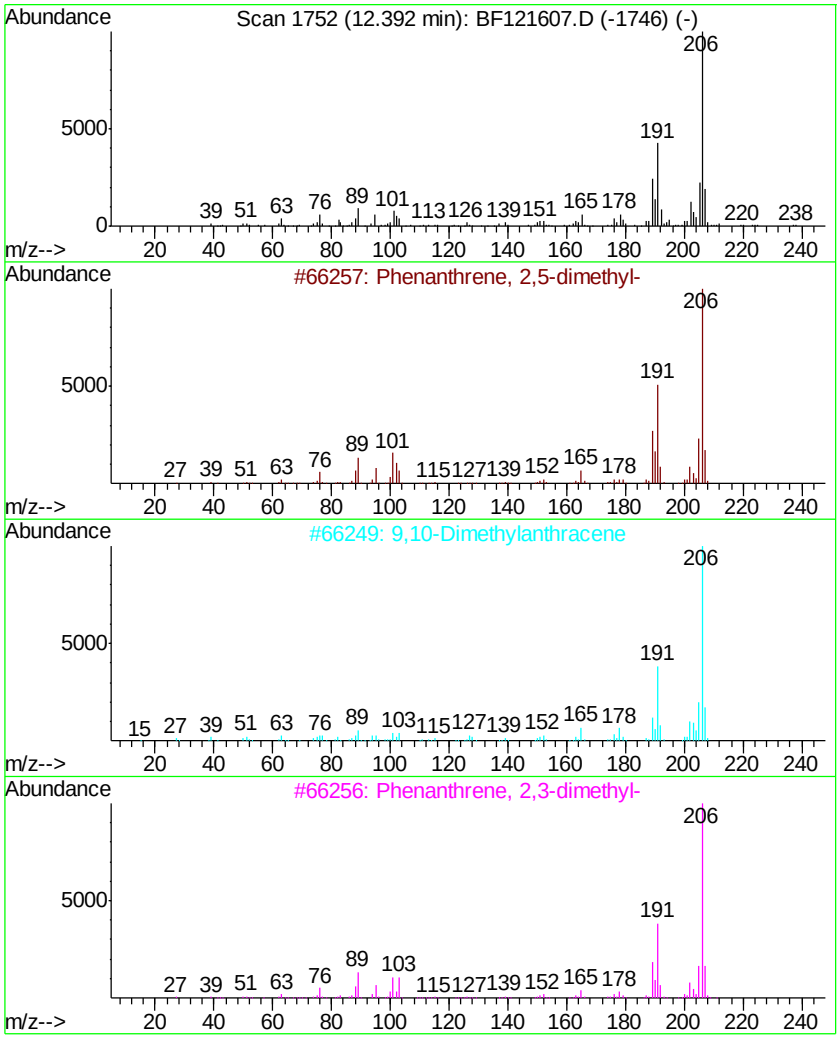
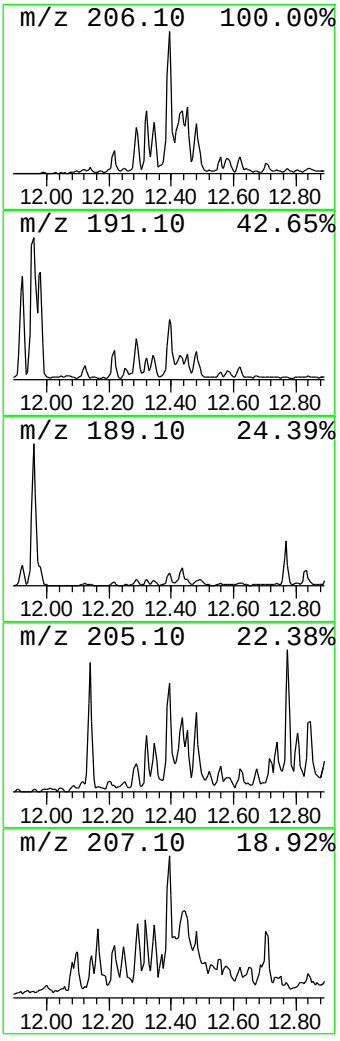
Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	3.67 ng	282141	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	89





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Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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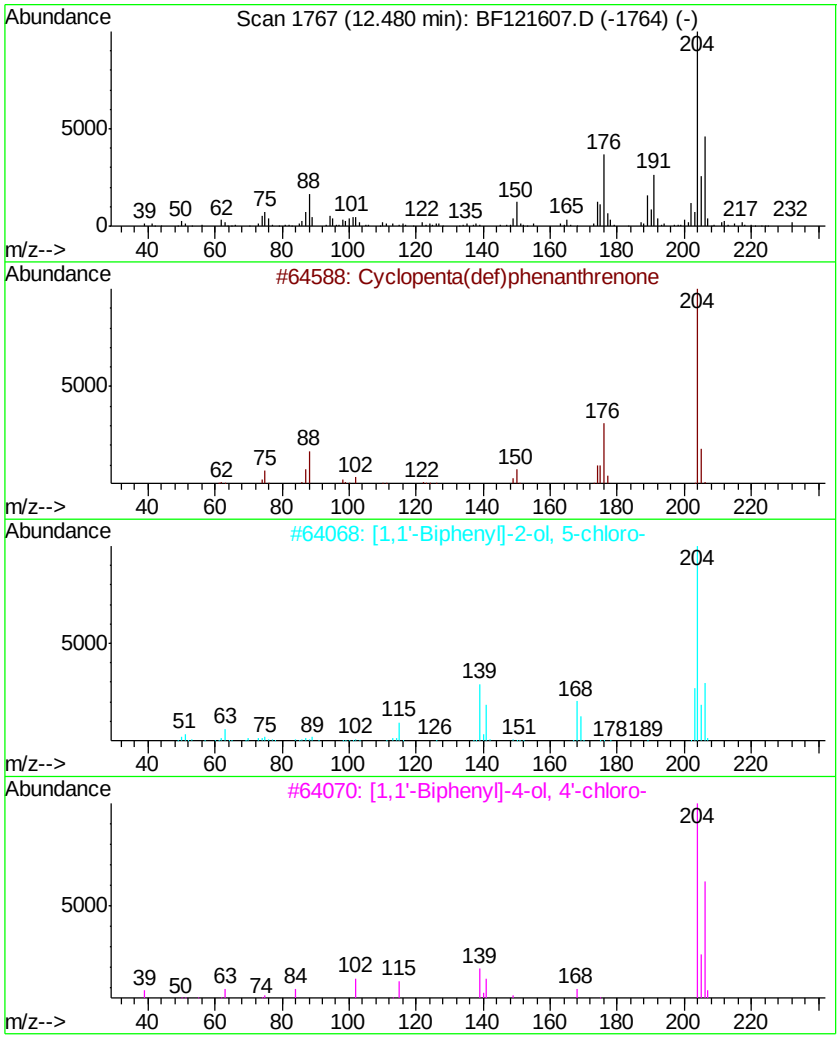
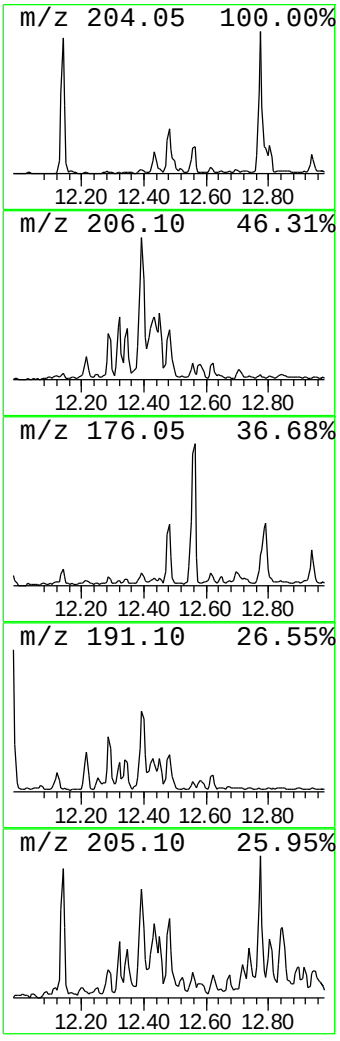
Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.48	2.81 ng	216161	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	49
3	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	47
4	2-Chloro-4-phenylphenol	204	C12H9ClO	000092-04-6	43
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	41





Library Search Compound Report

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Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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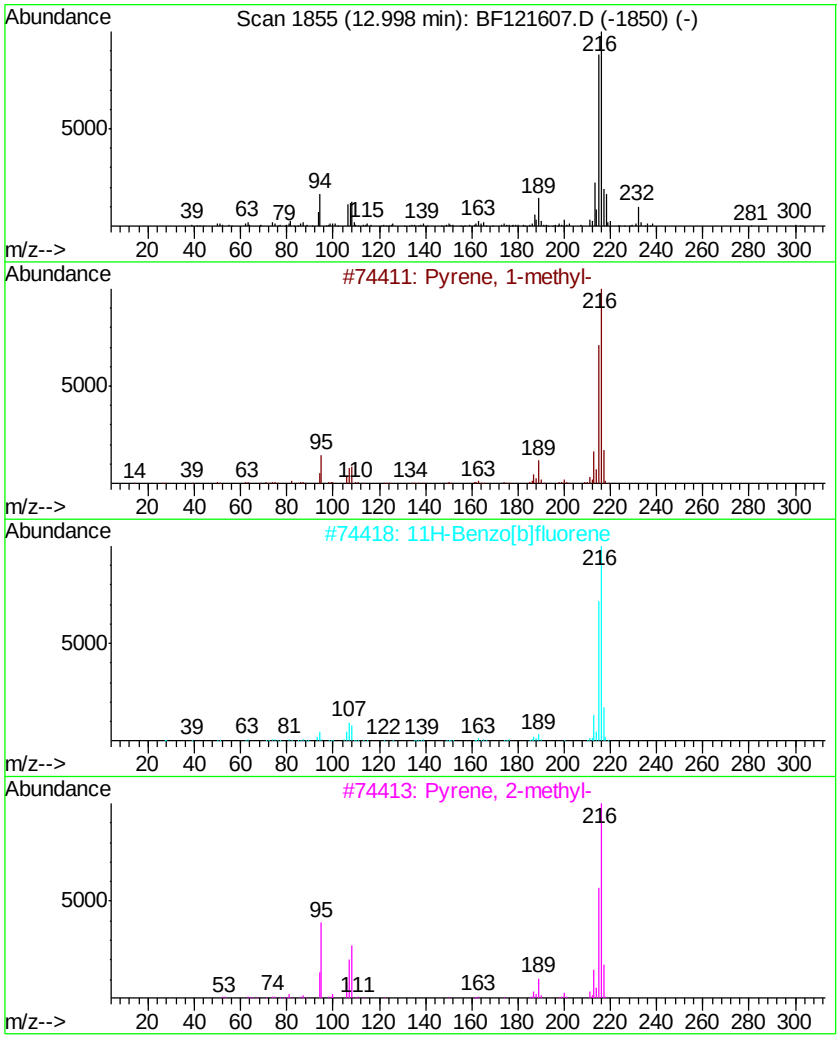
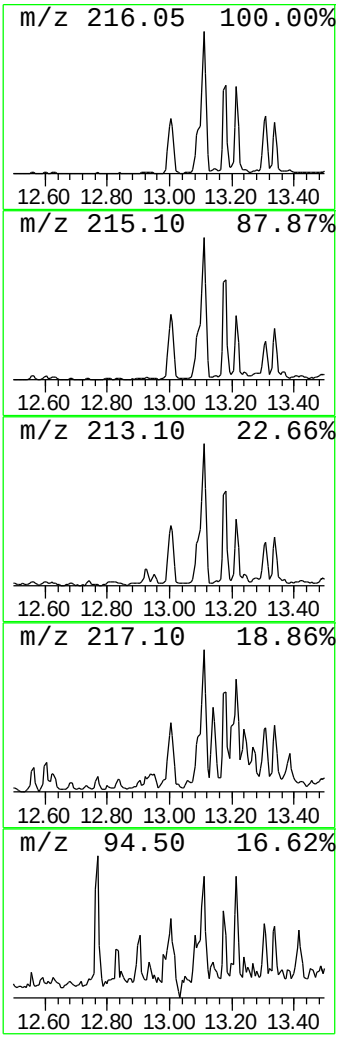
Peak Number 13 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	2.52 ng	381547	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	89
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81





Library Search Compound Report

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Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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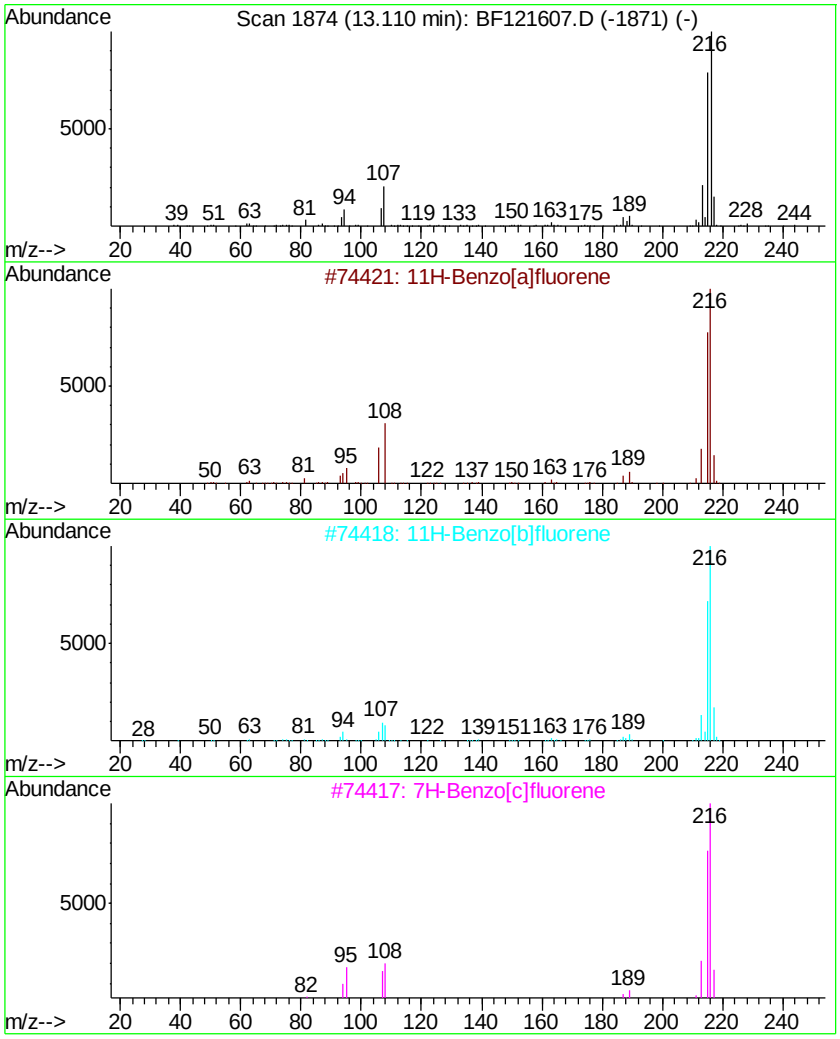
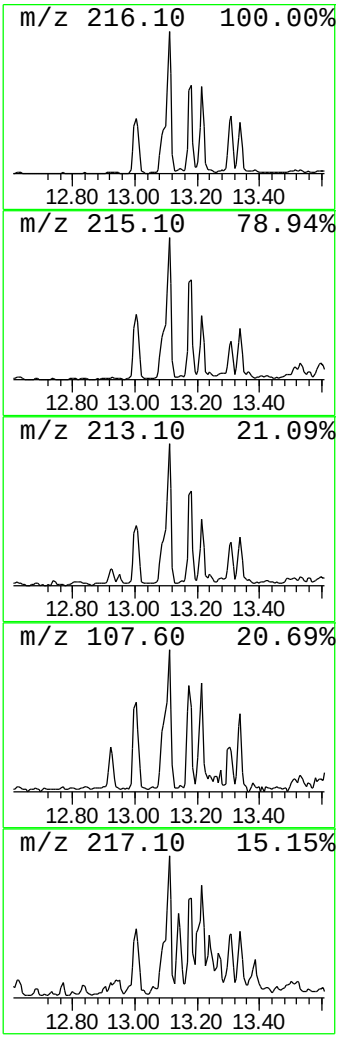
Peak Number 14 11H-Benzo[a]fluorene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.11	3.01 ng	456644	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
3	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	68
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	64





Library Search Compound Report

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Data File : BF121607.D
Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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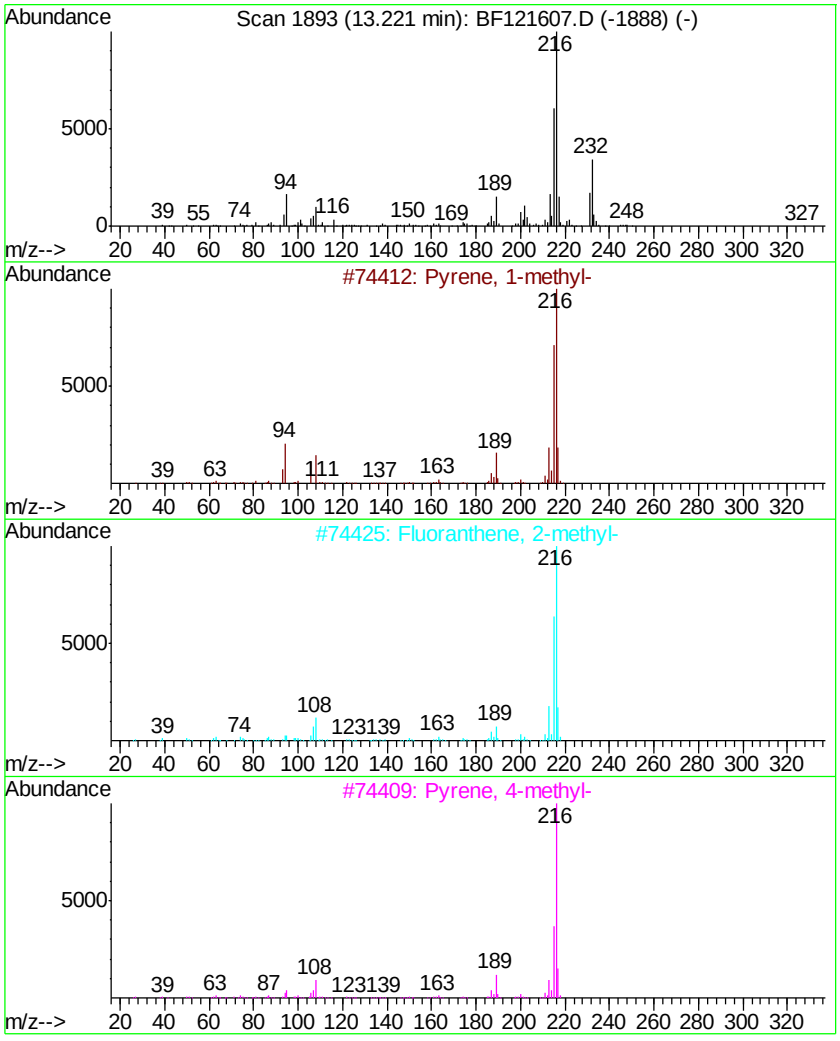
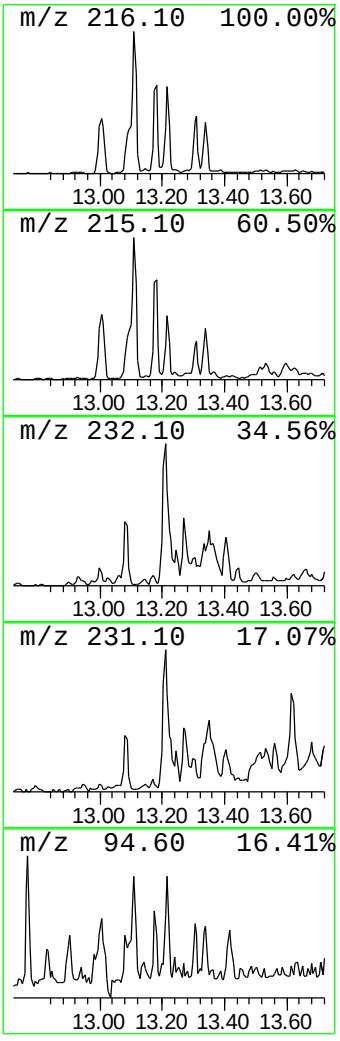
Peak Number 15 Fluoranthene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.22	2.47 ng	373954	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	96
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	91
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	89
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76





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Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

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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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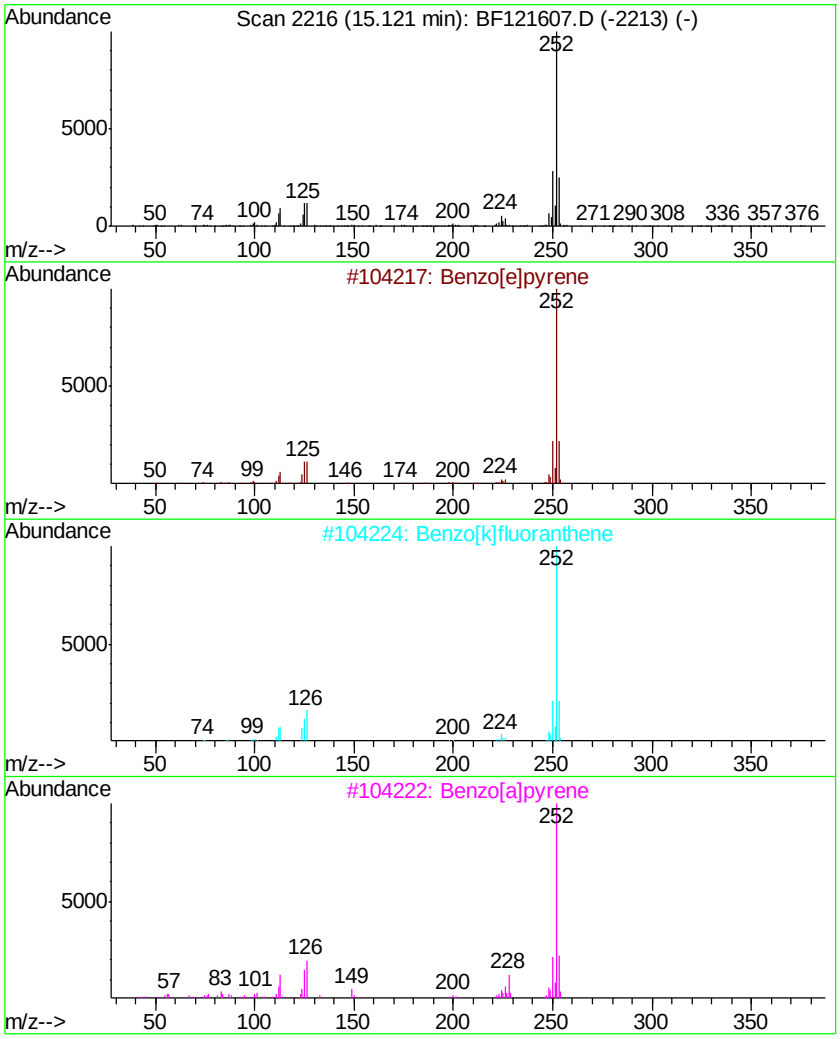
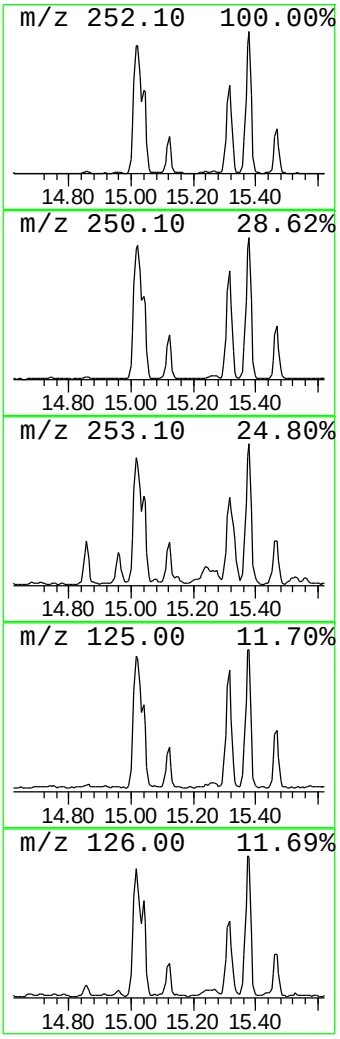
Peak Number 16 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.12	5.57 ng	324412	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
3	Benzo[a]pyrene	252	C20H12	000050-32-8	91
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Perylene	252	C20H12	000198-55-0	89





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Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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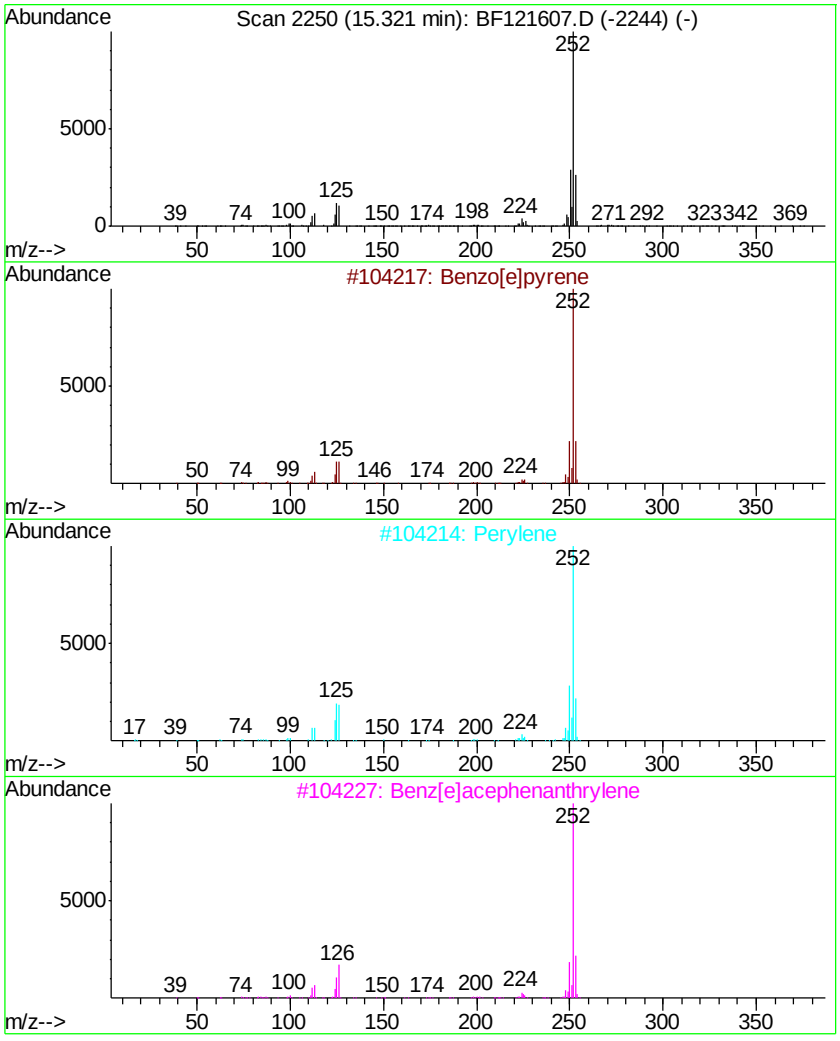
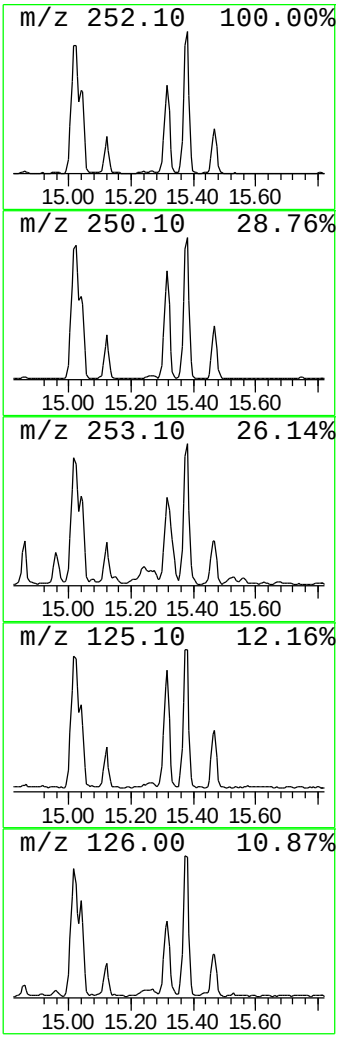
Peak Number 17 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.32	19.85 ng	1155190	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Perylene	252	C20H12	000198-55-0	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121607.D
Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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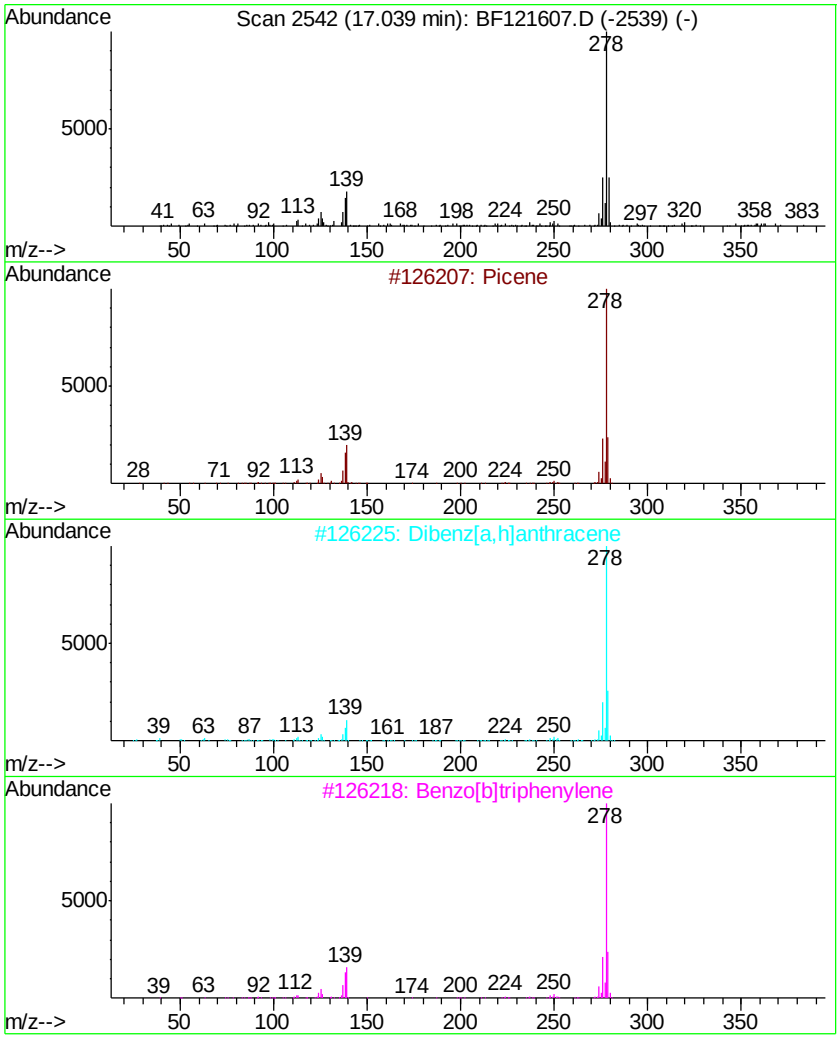
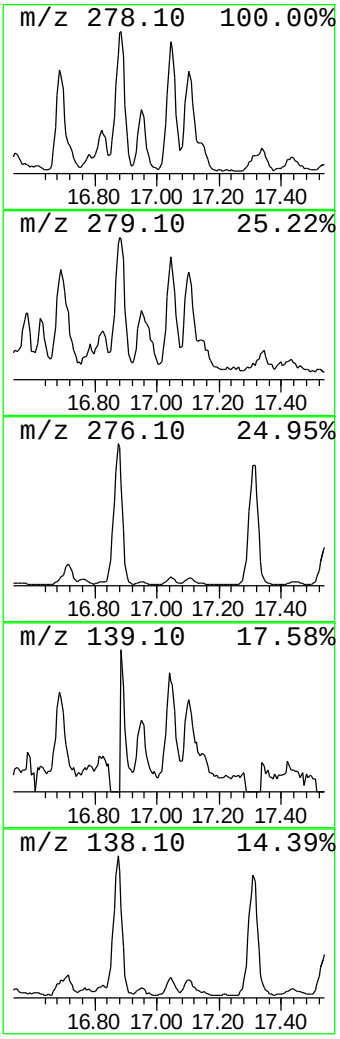
Peak Number 18 Picene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.04	2.97 ng	172601	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	95
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	94
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	90
4	Pentaphene	278	C22H14	000222-93-5	86
5	Pentacene	278	C22H14	000135-48-8	86





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121607.D
Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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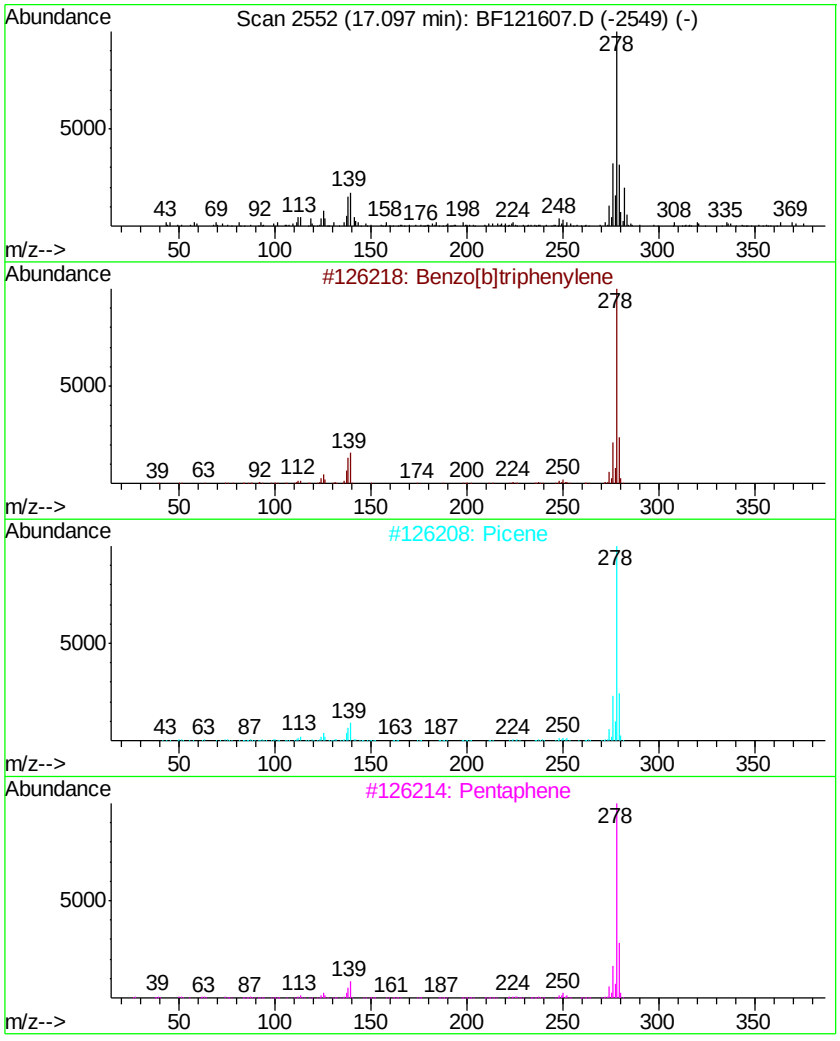
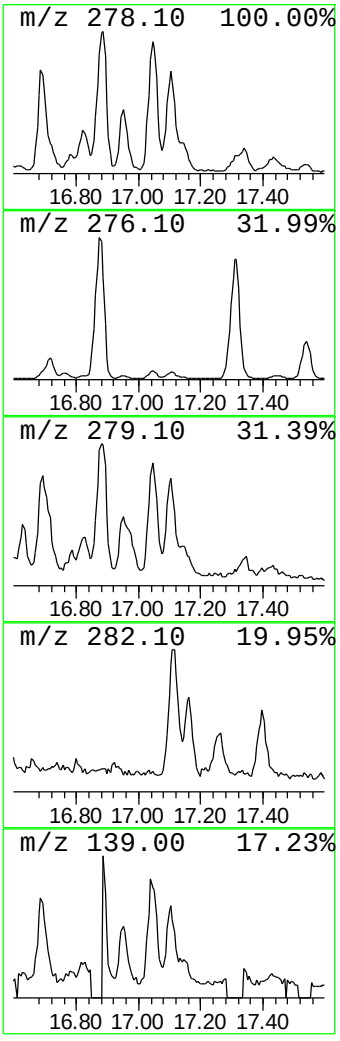
Peak Number 19 Benzo[b]triphenylene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.10	2.71 ng	157775	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
2	Picene	278	C22H14	000213-46-7	86
3	Pentaphene	278	C22H14	000222-93-5	83
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	83
5	Pentacene	278	C22H14	000135-48-8	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121607.D
Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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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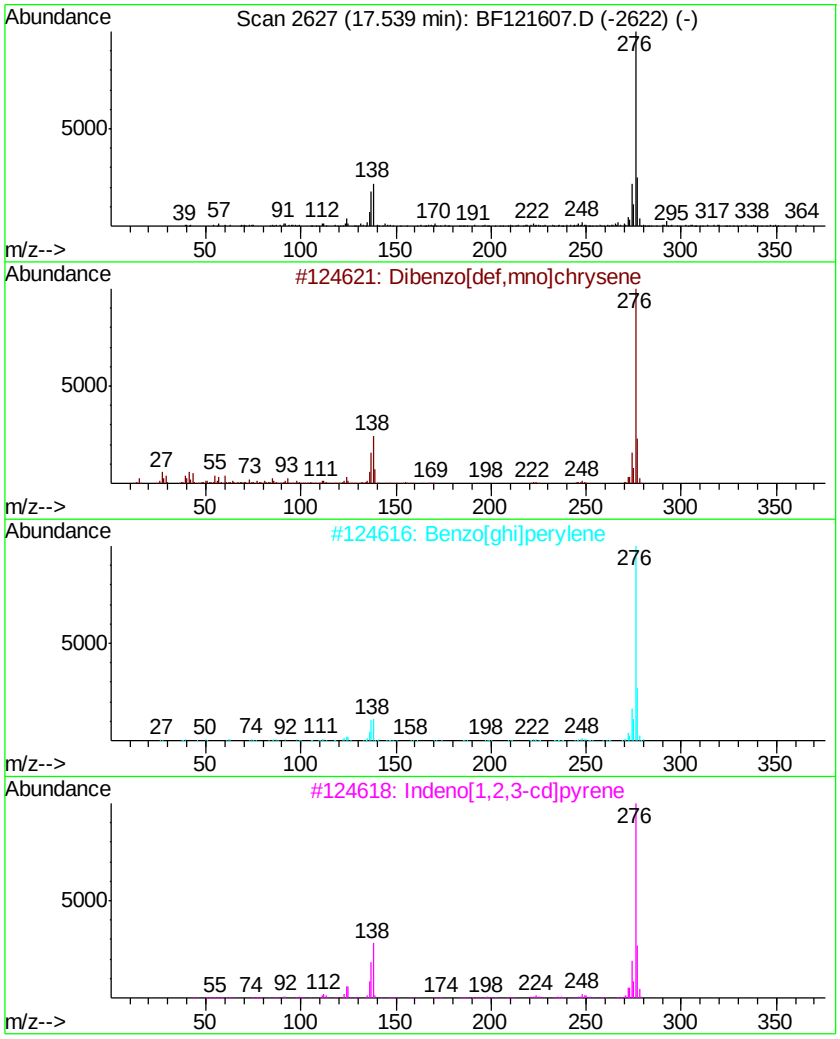
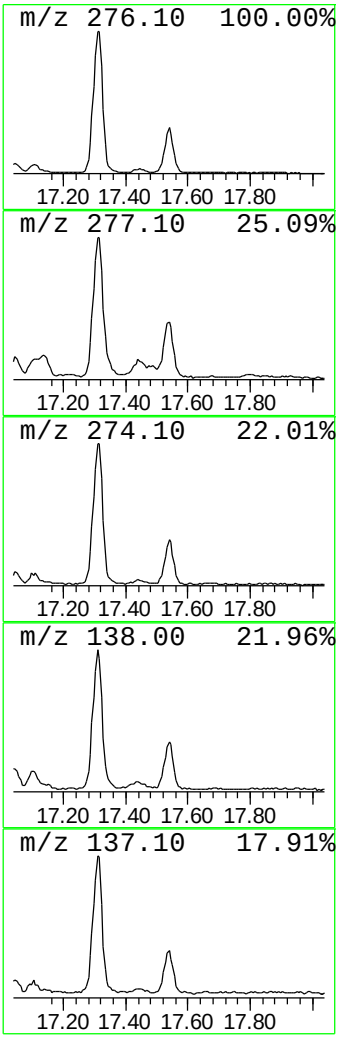
Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.54	5.94 ng	345717	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	96
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	96
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	94
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	81
5	Phenol, 2-(4-chlorophenyliminome...	276	C13H9ClN2O3	1000262-90-3	53





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF091720\
Data File : BF121607.D
Acq On : 17 Sep 2020 20:27
Operator : JU/CG
Sample : L4038-09 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-10-15

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.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
9H-Fluoren-9-ol	10.56	2.3	ng	182369	3	9.86	1591360	20.0
9H-Fluorene, 1-me...	10.95	3.0	ng	227450	4	11.34	1538550	20.0
2,4,6-Trimethoxyb...	11.19	2.8	ng	218306	4	11.34	1538550	20.0
Dibenzothiophene	11.24	3.4	ng	261723	4	11.34	1538550	20.0
Phenanthrene, 2-m...	11.84	5.0	ng	384508	4	11.34	1538550	20.0
Anthracene, 9-met...	11.87	6.5	ng	497532	4	11.34	1538550	20.0
1H-Cyclopropa[l]p...	11.92	3.5	ng	268975	4	11.34	1538550	20.0
4H-Cyclopenta[def...	11.96	9.6	ng	734706	4	11.34	1538550	20.0
Naphthalene, 2-ph...	12.14	3.3	ng	251934	4	11.34	1538550	20.0
Phenanthrene, 2,5...	12.39	3.7	ng	282141	4	11.34	1538550	20.0
Cyclopenta(def)ph...	12.48	2.8	ng	216161	4	11.34	1538550	20.0
Pyrene, 1-methyl-	13.00	2.5	ng	381547	5	13.99	3032640	20.0
11H-Benzo[a]fluorene	13.11	3.0	ng	456644	5	13.99	3032640	20.0
Fluoranthene, 2-m...	13.22	2.5	ng	373954	5	13.99	3032640	20.0
Benzo[e]pyrene	15.12	5.6	ng	324412	6	15.44	1164020	20.0
Perylene	15.32	19.9	ng	1155190	6	15.44	1164020	20.0
Picene	17.04	3.0	ng	172601	6	15.44	1164020	20.0
Benzo[b]triphenylene	17.10	2.7	ng	157775	6	15.44	1164020	20.0
Dibenzo[def,mno]c...	17.54	5.9	ng	345717	6	15.44	1164020	20.0