LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121604.D
Acq On : 17 Sep 2020 18:54
Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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	2.128	3	7	18	rVB	263634	346595	5.18%	0.332%
2	5.451	567	572	575	rBV	3827667	3611887	53.95%	3.459%
3	6.463	739	744	752	rBV	3454159	3758711	56.14%	3.600%
4	6.822	801	805	808	rBV	1379393	1082372	16.17%	1.037%
5	7.386	891	901	904	rBV	2713063	2670829	39.89%	2.558%
6	8.104	1018	1023	1025	rBV	1656871	1508503	22.53%	1.445%
7	8.128	1025	1027	1030	rVB	898396	708700	10.59%	0.679%
8	8.816	1141	1144	1147	rVB	428782	313709	4.69%	0.300%
9	8.916	1157	1161	1165	rVB	356618	321021	4.80%	0.307%
10	9.180	1201	1206	1209	rBV	4859991	4356600	65.08%	4.172%
11	9.280	1221	1223	1228	rVB2	241106	224331	3.35%	0.215%
12	9.439	1244	1250	1254	rBV	199778	295156	4.41%	0.283%
13	9.516	1254	1263	1265	rBV	444198	463595	6.92%	0.444%
14	9.539	1265	1267	1270	rVV	307721	253931	3.79%	0.243%
15	9.569	1270	1272	1276	rVV	469198	454434	6.79%	0.435%
16	9.633	1276	1283	1288	rVB2	206849	316552	4.73%	0.303%
17	9.716	1294	1297	1302	rVB	244229	200611	3.00%	0.192%
18	9.786	1306	1309	1312	rBV	240021	187821	2.81%	0.180%
19	9.857	1314	1321	1324	rVV	1777160	1686618	25.19%	1.615%
20	9.892	1324	1327	1330	rVV	1720520	1520939	22.72%	1.457%
21	10.016	1343	1348	1352	rBV2	202525	267310	3.99%	0.256%
22	10.057	1352	1355	1359	rBV	1066389	1013446	15.14%	0.971%
23	10.098	1359	1362	1369	rVB2	175887	201093	3.00%	0.193%
24	10.286	1391	1394	1397	rVB2	324330	298353	4.46%	0.286%
25	10.404	1409	1414	1419	rVB	1735441	1565997	23.39%	1.500%
26	10.469	1423	1425	1426	rVV	258006	198012	2.96%	0.190%
27	10.486	1426	1428	1431	rVV	326394	356553	5.33%	0.341%
28	10.533	1434	1436	1438	rVV	184964	189440	2.83%	0.181%
29	10.557	1438	1440	1444	rVV	512836	459592	6.86%	0.440%
30	10.645	1444	1455	1459	rVV	2992860	3030503	45.27%	2.902%
31	10.692	1459	1463	1466	rVB2	138939	192770	2.88%	0.185%
32	10.763	1471	1475	1483	rVB4	354277	490577	7.33%	0.470%
33	10.951	1500	1507	1509	rBV3	365468	539560	8.06%	0.517%
34	10.974	1509	1511	1515	rVV2	189562	224635	3.36%	0.215%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
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Acq On : 17 Sep 2020 18:54
Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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	11.080	1523	1529	1530	rVV2	236875	320583	4.79%	0.307%
36	11.098	1530	1532	1534	rVV2	255038	258819	3.87%	0.248%
37	11.145	1538	1540	1544	rVV2	284711	247024	3.69%	0.237%
38	11.192	1544	1548	1549	rVV2	272926	316942	4.73%	0.304%
39	11.239	1553	1556	1561	rVB	691043	683230	10.21%	0.654%
40	11.345	1568	1574	1575	rBV	1253710	1386919	20.72%	1.328%
41	11.374	1575	1579	1582	rVV	5751223	6434584	96.11%	6.162%
42	11.421	1582	1587	1589	rVV	2752666	2454068	36.66%	2.350%
43	11.451	1589	1592	1595	rVB	411770	358335	5.35%	0.343%
44	11.569	1606	1612	1615	rBV2	815163	913610	13.65%	0.875%
45	11.639	1621	1624	1627	rBV2	377999	345276	5.16%	0.331%
46	11.845	1653	1659	1661	rBV	865668	873461	13.05%	0.837%
47	11.874	1661	1664	1668	rVV	1416204	1354626	20.23%	1.297%
48	11.921	1668	1672	1675	rVV	590951	667057	9.96%	0.639%
49	11.957	1675	1678	1680	rVV	1502584	1628868	24.33%	1.560%
50	11.974	1680	1681	1686	rVB	567772	457784	6.84%	0.438%
51	12.045	1691	1693	1696	rVV2	301566	244435	3.65%	0.234%
52	12.139	1704	1709	1711	rVV3	767456	902008	13.47%	0.864%
53	12.163	1711	1713	1716	rVV	257318	190506	2.85%	0.182%
54	12.292	1729	1735	1737	rBV2	444237	479872	7.17%	0.460%
55	12.398	1746	1753	1756	rBV2	343484	532886	7.96%	0.510%
56	12.433	1756	1759	1762	rVV2	345023	433854	6.48%	0.416%
57	12.486	1765	1768	1773	rVB3	214824	298641	4.46%	0.286%
58	12.574	1777	1783	1785	rBV	5340046	6050247	90.37%	5.794%
59	12.704	1798	1805	1809	rBV2	299439	512289	7.65%	0.491%
60	12.792	1814	1820	1824	rBV2	4509098	6694730	100.00%	6.412%
61	12.833	1824	1827	1832	rVB2	311403	392837	5.87%	0.376%
62	12.898	1835	1838	1840	rBV	397473	437683	6.54%	0.419%
63	12.927	1840	1843	1849	rVB2	3602485	3693290	55.17%	3.537%
64	13.004	1850	1856	1859	rBV3	371773	667157	9.97%	0.639%
65	13.086	1867	1870	1871	rVV3	274031	266873	3.99%	0.256%
66	13.110	1871	1874	1877	rVB	934269	921729	13.77%	0.883%
67	13.174	1877	1885	1888	rBV2	758908	973190	14.54%	0.932%
68	13.215	1888	1892	1894	rVV2	583222	650143	9.71%	0.623%
69	13.304	1904	1907	1910	rVB	270266	242148	3.62%	0.232%
70	13.333	1910	1912	1916	rBV2	302004	341296	5.10%	0.327%
71	13.410	1922	1925	1930	rVB5	133740	195711	2.92%	0.187%

LSC Area Percent Report

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Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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

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Peak separation: 5

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

72	13.504	1938	1941	1944	rBV4	130218	182708	2.73%	0.175%
73	13.615	1958	1960	1965	rVB2	223901	277287	4.14%	0.266%
74	13.727	1976	1979	1981	rBV	287851	283435	4.23%	0.271%
75	13.757	1981	1984	1986	rVV	461485	408685	6.10%	0.391%
76	13.780	1986	1988	1993	rVV2	345037	506779	7.57%	0.485%
77	13.827	1993	1996	2003	rVB3	277677	552088	8.25%	0.529%
78	13.974	2014	2021	2024	rBV2	2836878	4051146	60.51%	3.880%
79	14.010	2024	2027	2032	rVB	2531203	2398472	35.83%	2.297%
80	14.086	2037	2040	2043	rBV	649214	494331	7.38%	0.473%
81	14.204	2056	2060	2063	rVB2	299655	370693	5.54%	0.355%
82	14.362	2083	2087	2090	rVV	514274	493662	7.37%	0.473%
83	14.398	2090	2093	2096	rVB	245531	189083	2.82%	0.181%
84	14.457	2099	2103	2106	rVV2	281527	369796	5.52%	0.354%
85	14.486	2106	2108	2110	rVV	295485	263519	3.94%	0.252%
86	14.510	2110	2112	2115	rVB2	347238	292728	4.37%	0.280%
87	14.557	2116	2120	2126	rVB4	179717	286729	4.28%	0.275%
88	14.674	2136	2140	2142	rBV3	194278	249454	3.73%	0.239%
89	15.021	2193	2199	2202	rBV	1977167	3537804	52.84%	3.388%
90	15.121	2213	2216	2219	rVB	500776	476805	7.12%	0.457%
91	15.315	2244	2249	2255	rVB	1294229	1911045	28.55%	1.830%
92	15.380	2255	2260	2265	rBV	1920393	2641274	39.45%	2.530%
93	15.439	2266	2270	2272	rVV	826000	1000732	14.95%	0.958%
94	15.468	2272	2275	2281	rVB	767687	997729	14.90%	0.956%
95	15.986	2360	2363	2372	rVB4	167127	288968	4.32%	0.277%
96	16.886	2510	2516	2523	rVB2	1028683	2012493	30.06%	1.927%
97	17.056	2541	2545	2549	rVB	187863	287306	4.29%	0.275%
98	17.109	2551	2554	2560	rBV2	134847	277651	4.15%	0.266%
99	17.327	2584	2591	2600	rVB	807824	1724652	25.76%	1.652%
100	17.545	2625	2628	2635	rVB	254712	456323	6.82%	0.437%

Sum of corrected areas: 104416844

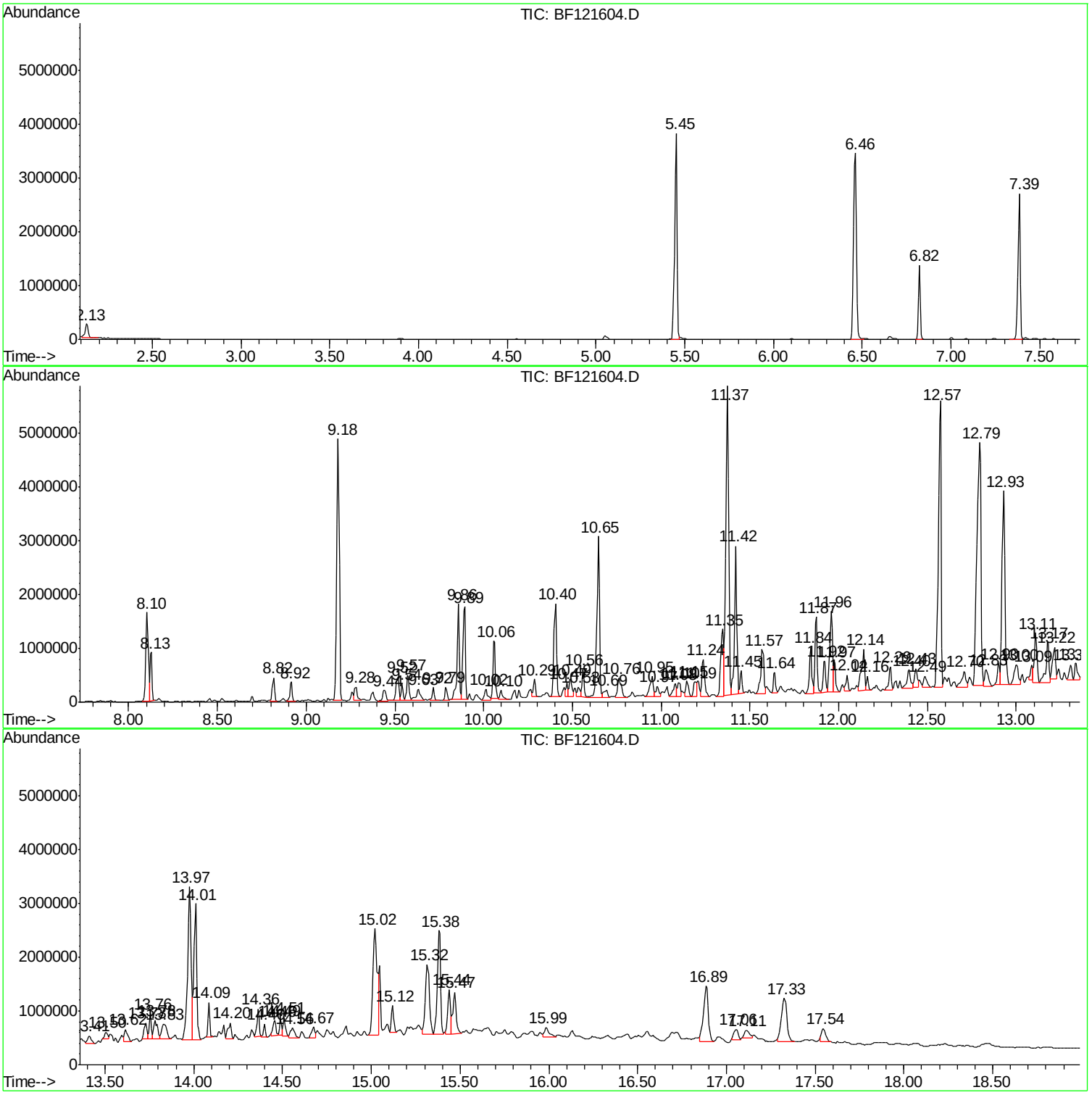
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121604.D
Acq On : 17 Sep 2020 18:54
Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121604.D
Acq On : 17 Sep 2020 18:54
Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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

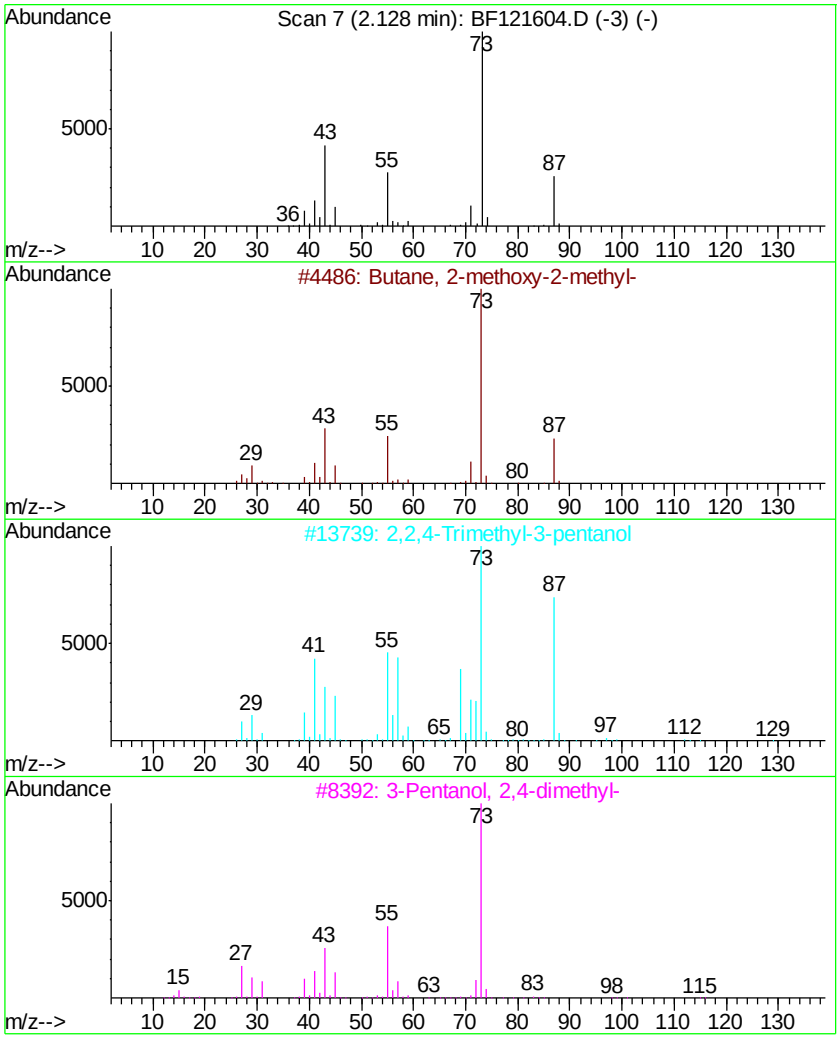
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

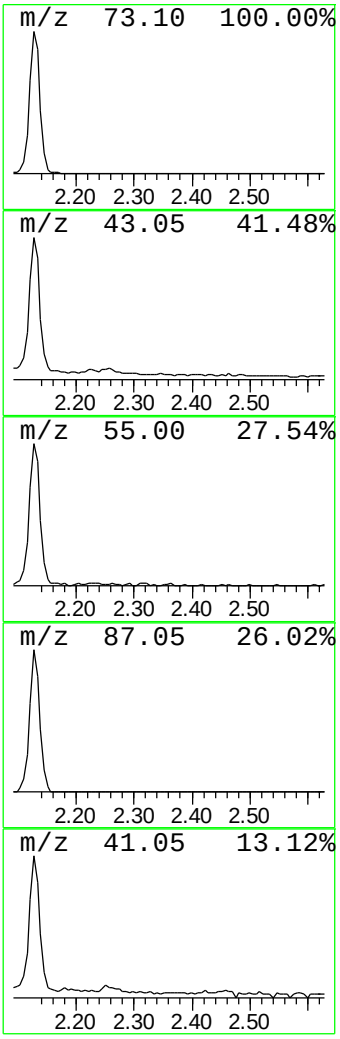
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.13	6.40 ng	346595	1,4-Dichlorobenzene-d4	6.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	3-Pentanol, 2,4-dimethyl-	116	C7H16O	000600-36-2	25
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	12





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121604.D
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Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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

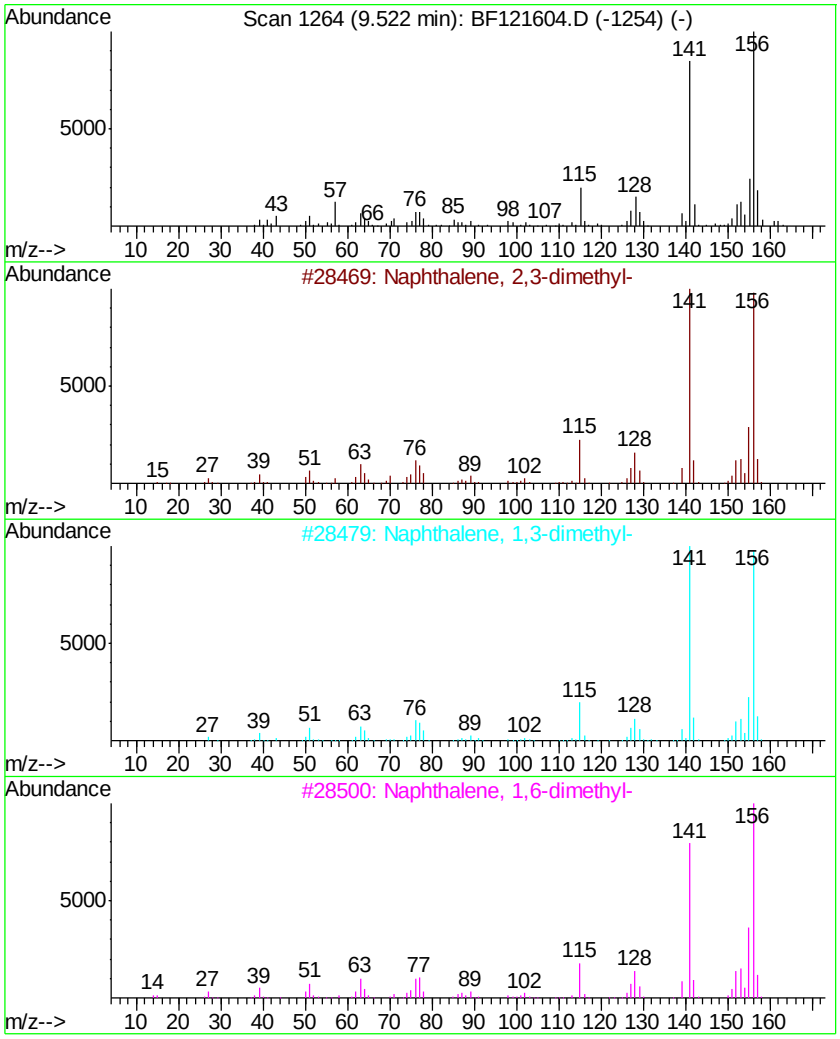
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

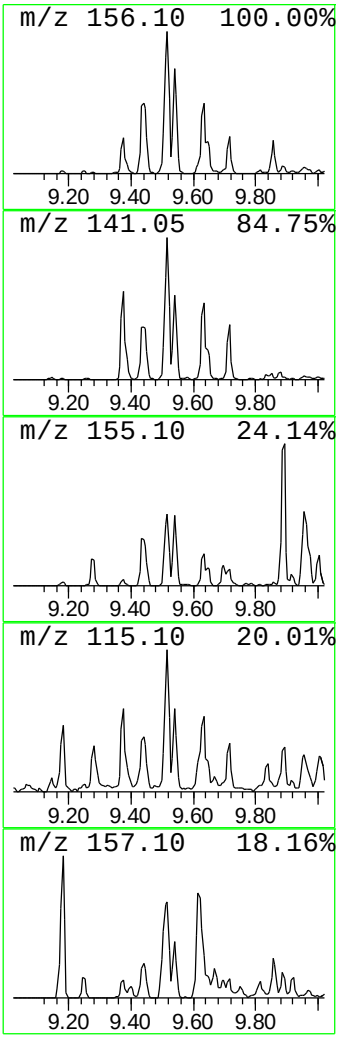
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.52	5.50 ng	463595	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, 1,3-dimethyl-	156	C12H12	000575-41-7	96
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121604.D
Acq On : 17 Sep 2020 18:54
Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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

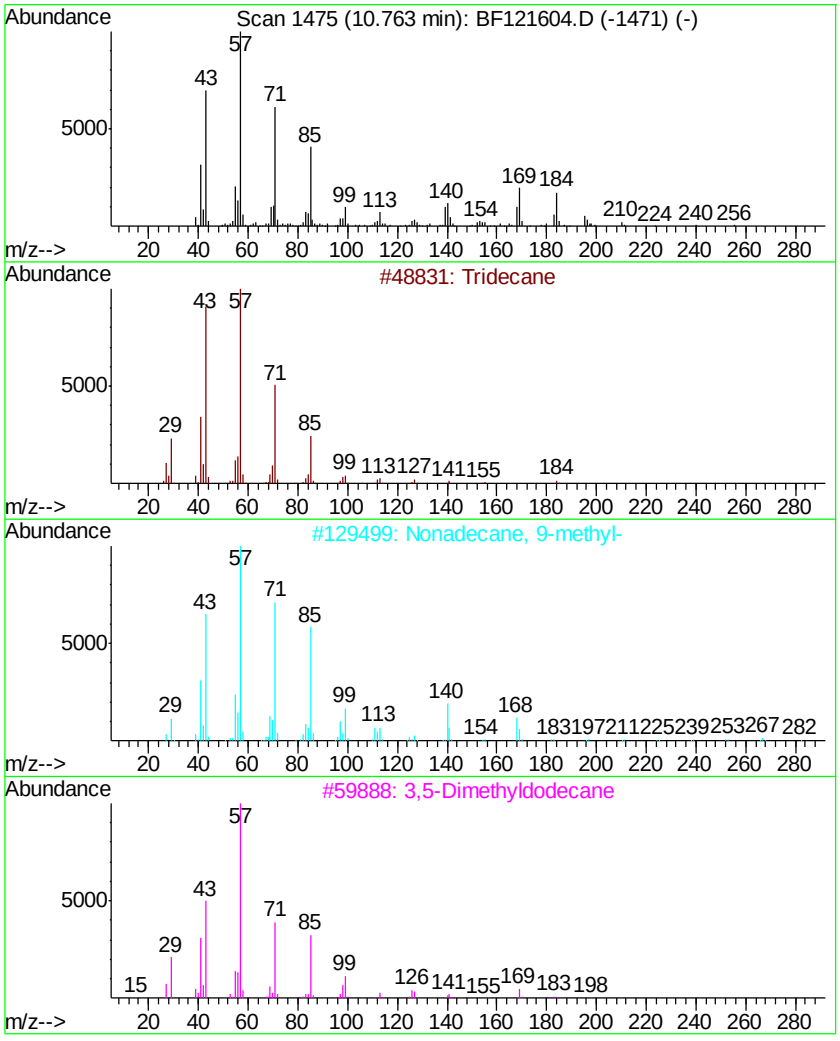
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

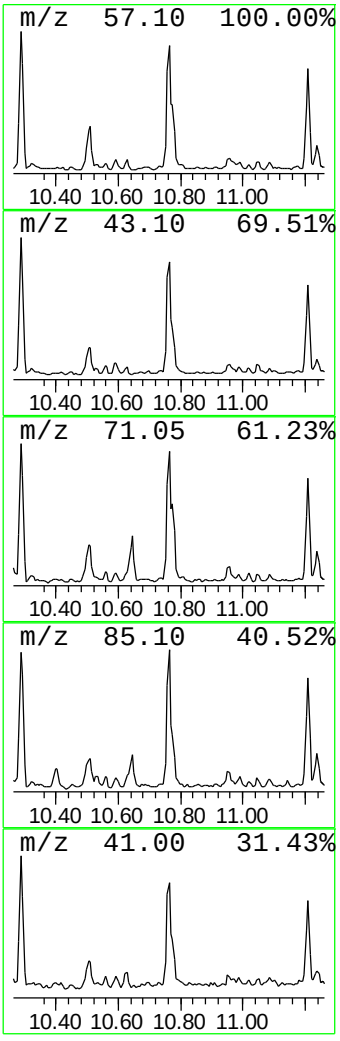
****

Peak Number 3 Tridecane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.76	7.07 ng	490577	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	62
2	Nonadecane, 9-methyl-	282	C20H42	013287-24-6	62
3	3,5-Dimethyldodecane	198	C14H30	107770-99-0	62
4	Eicosane	282	C20H42	000112-95-8	58
5	Heptadecane	240	C17H36	000629-78-7	52





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121604.D
Acq On : 17 Sep 2020 18:54
Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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

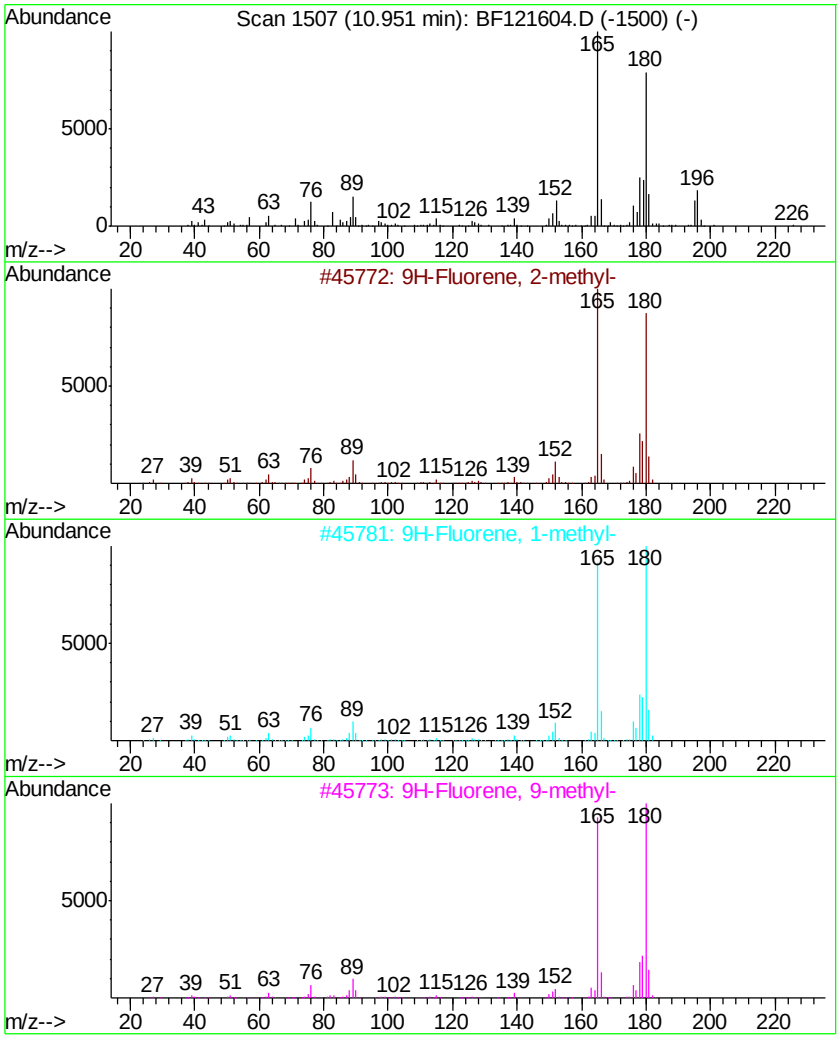
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

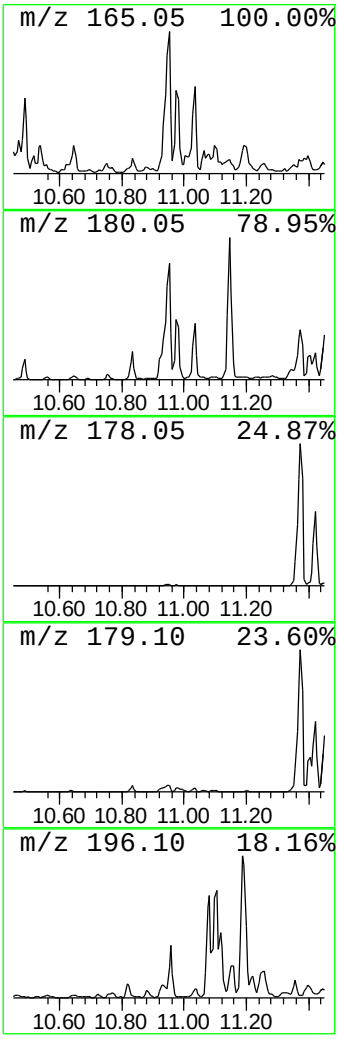
****

Peak Number 4 9H-Fluorene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	7.78 ng	539560	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	96
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	93
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	89
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	86





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121604.D
Acq On : 17 Sep 2020 18:54
Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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

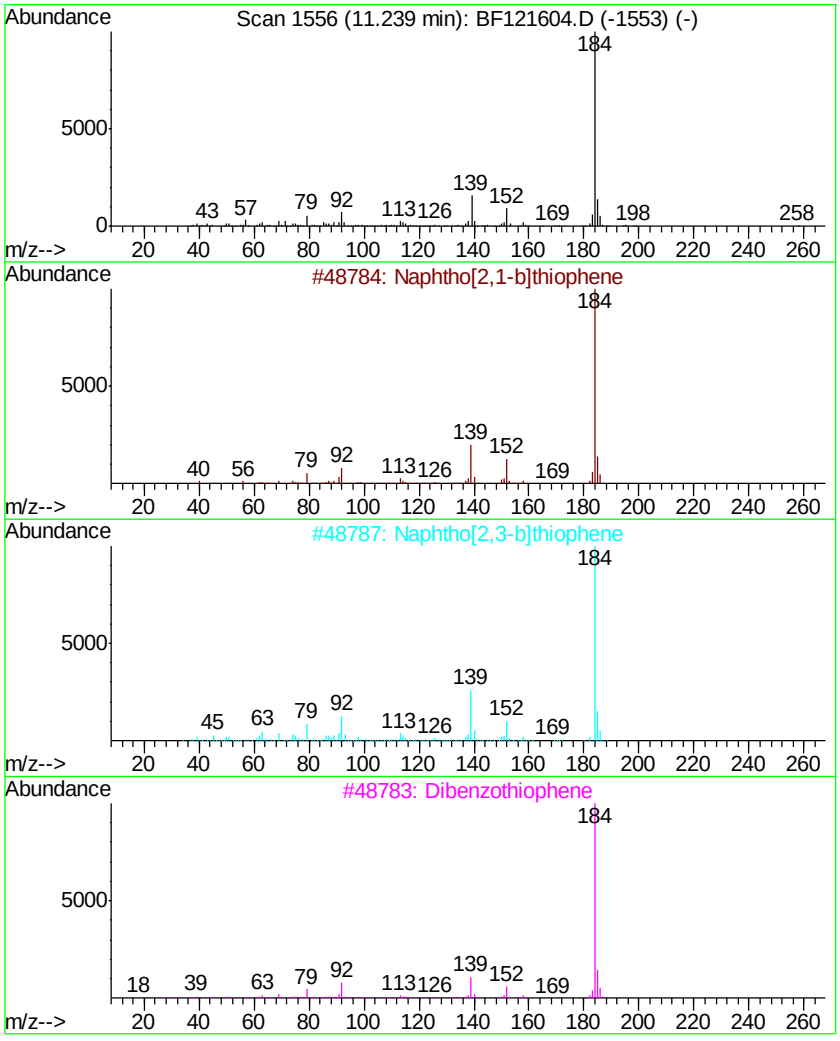
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

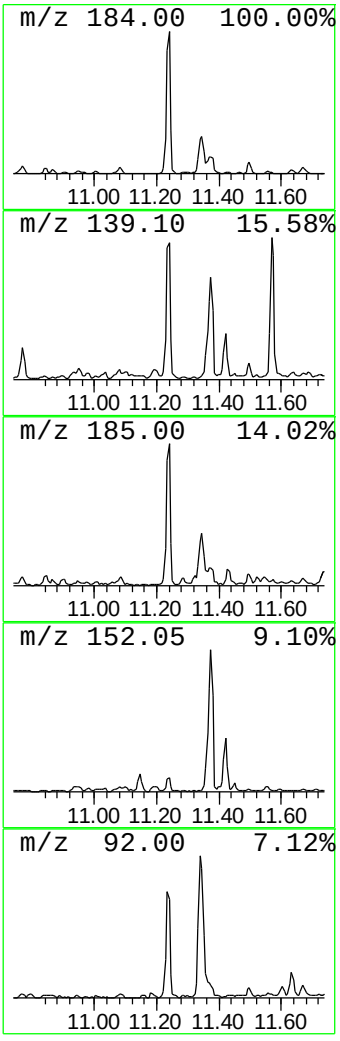
****

Peak Number 5 Naphtho[2,1-b]thiophene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.24	9.85 ng	683230	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
3	Dibenzothiophene	184	C12H8S	000132-65-0	95
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87





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Acq On : 17 Sep 2020 18:54
Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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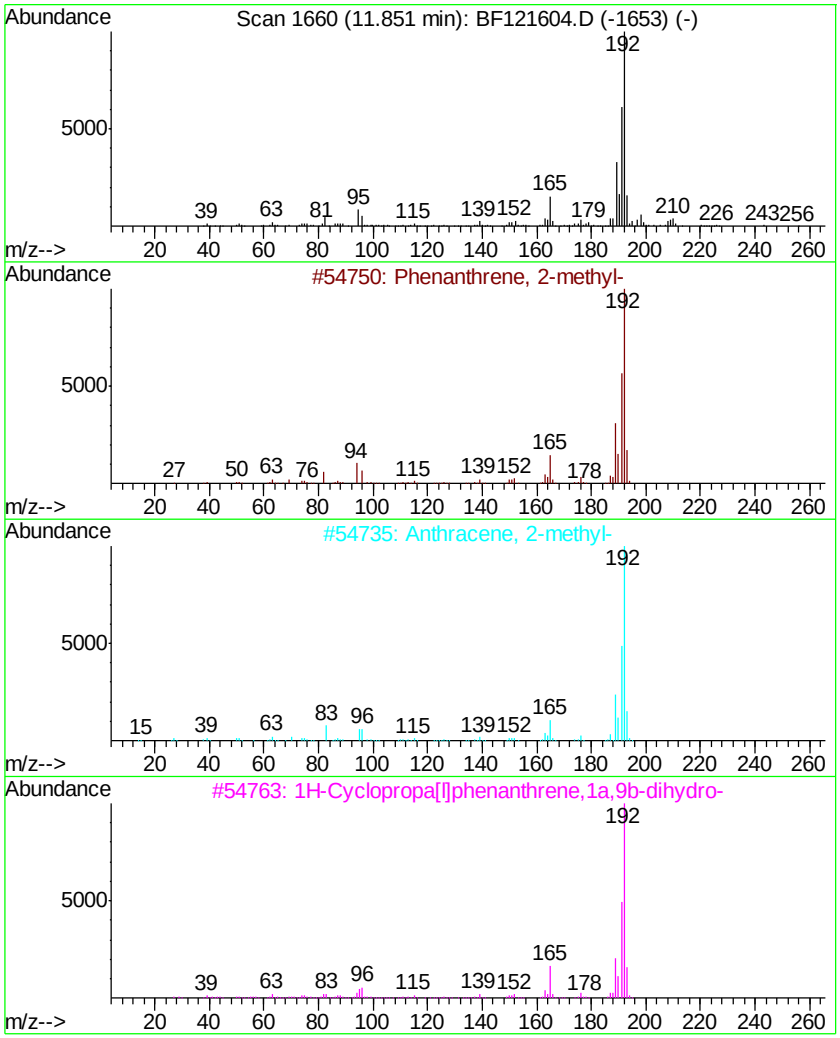
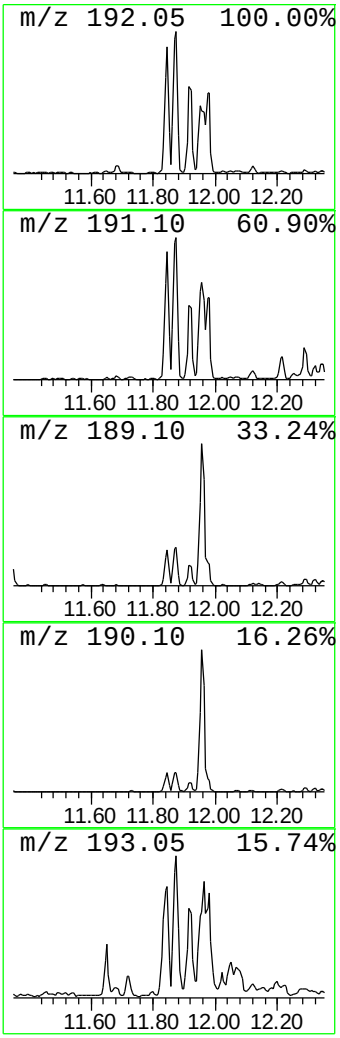
Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.85	12.60 ng	873461	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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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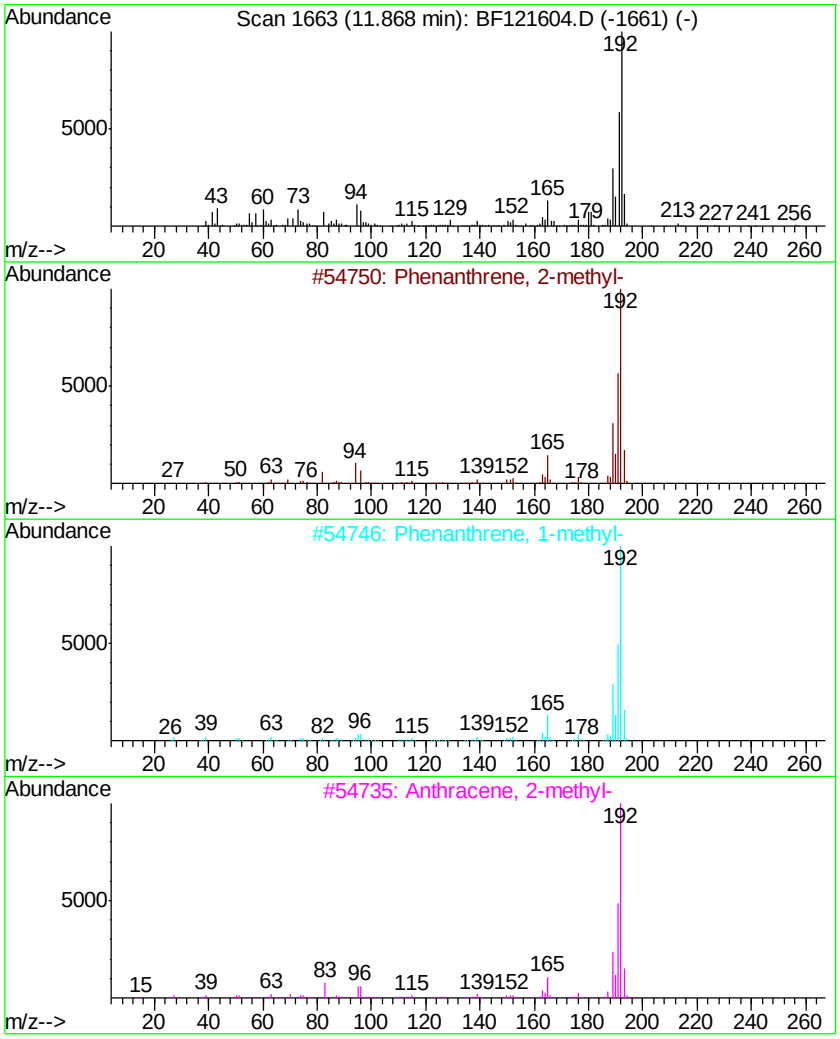
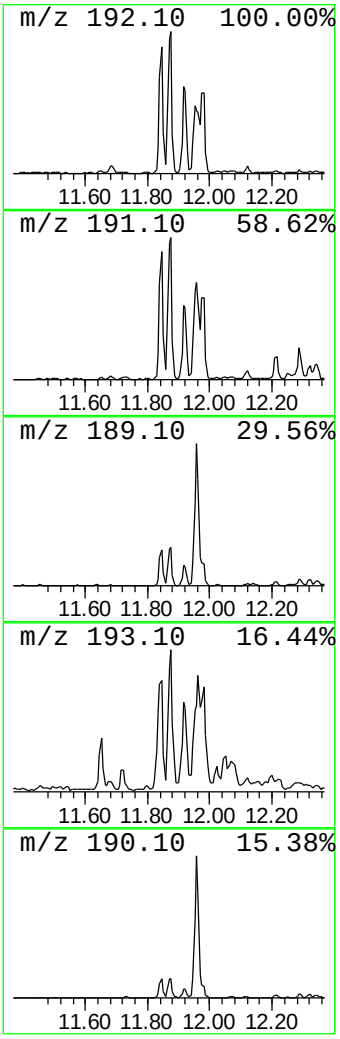
Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	19.53 ng	1354630	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	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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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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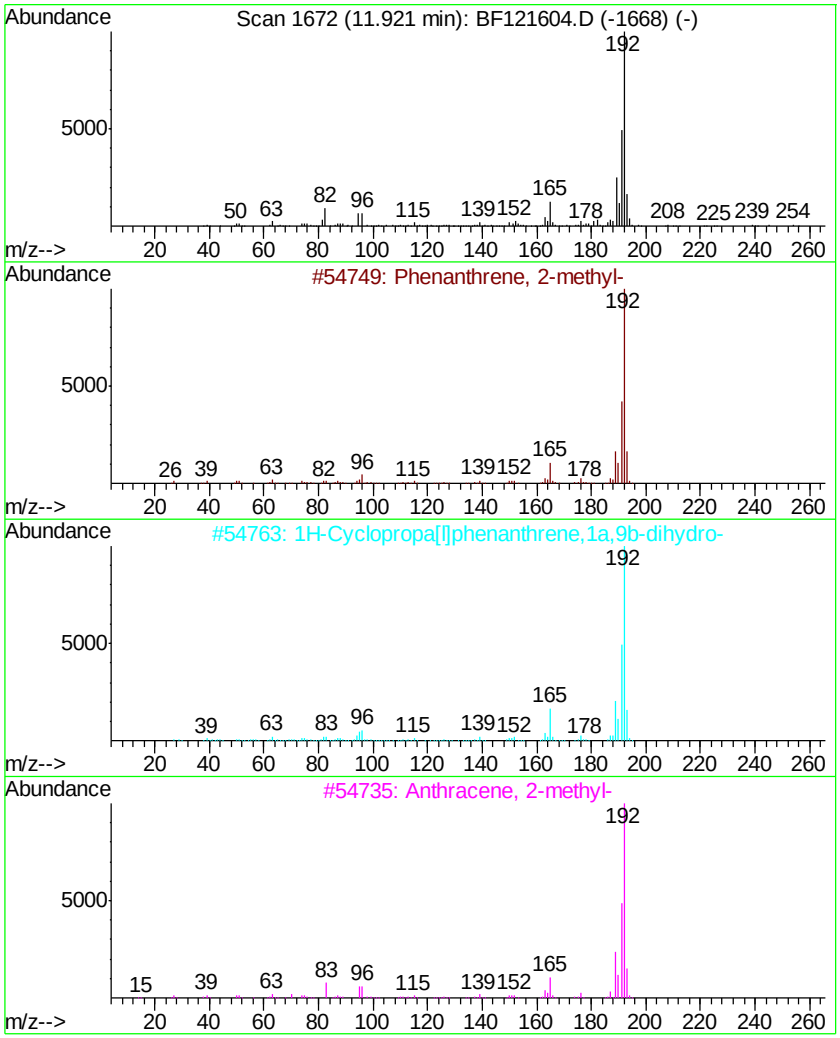
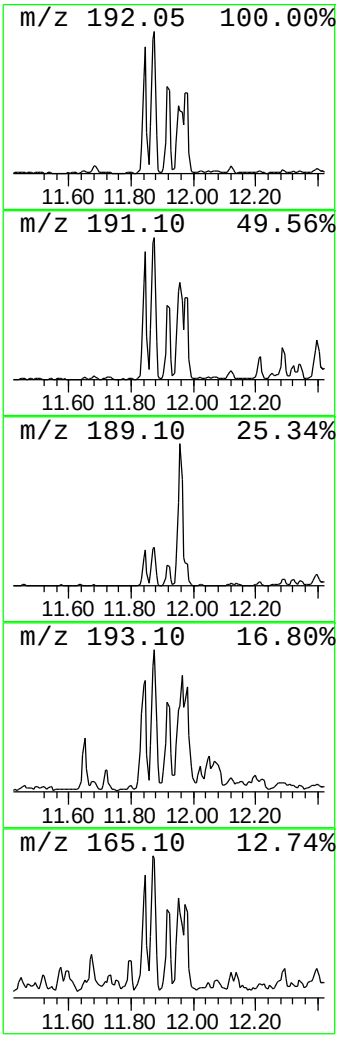
Peak Number 8 1H-Cyclopropa[l]phenanthren... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	9.62 ng	667057	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96





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Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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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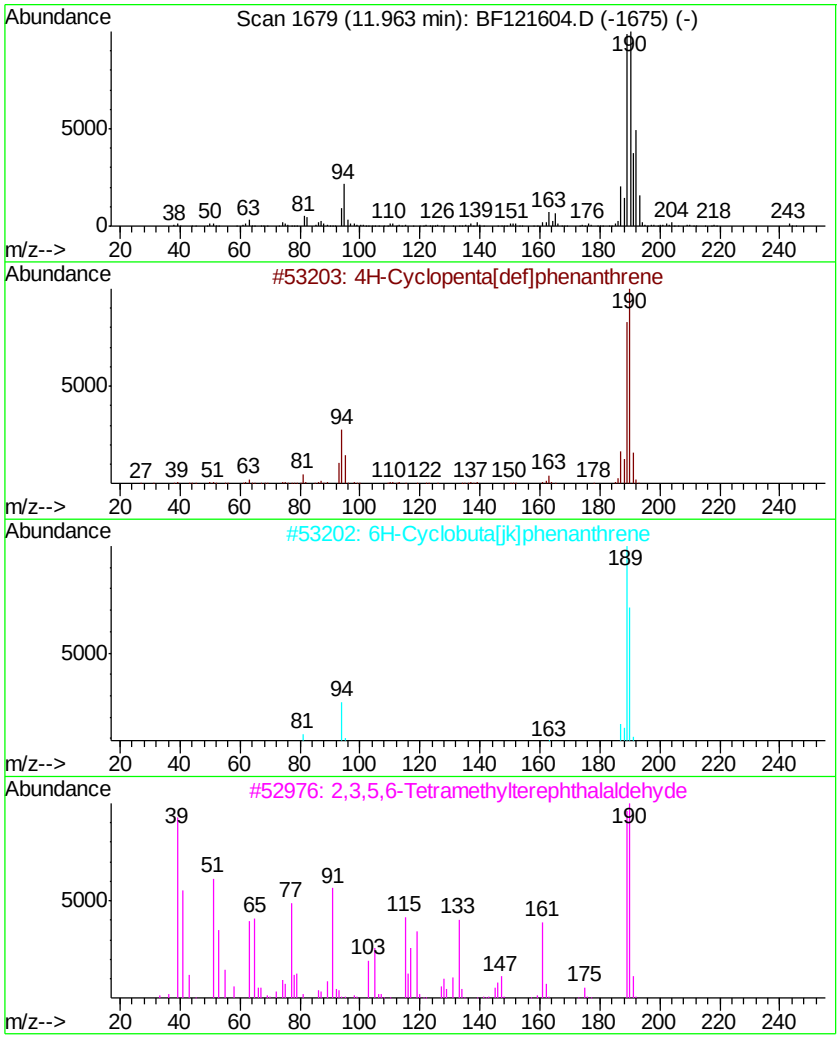
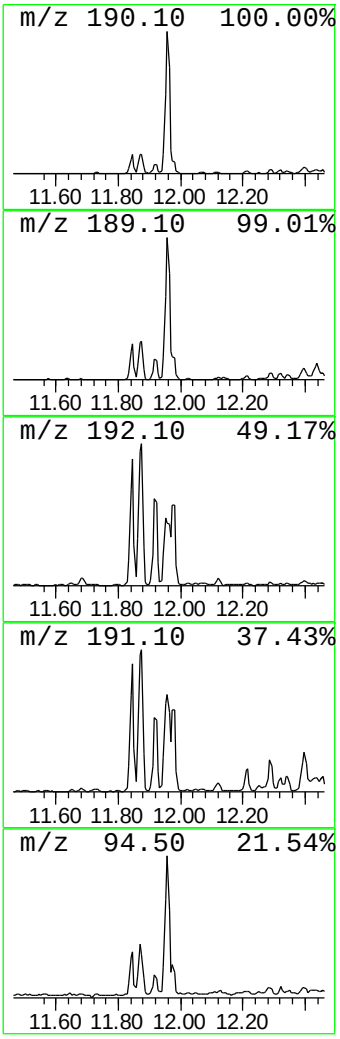
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	23.49 ng	1628870	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	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	72
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	Methyl diselenide	190	C2H6Se2	007101-31-7	46
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40





Library Search Compound Report

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Sample : L4038-03
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ALS Vial : 8 Sample Multiplier: 1

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ClientSampleId : PAV-B36-091620-0-10

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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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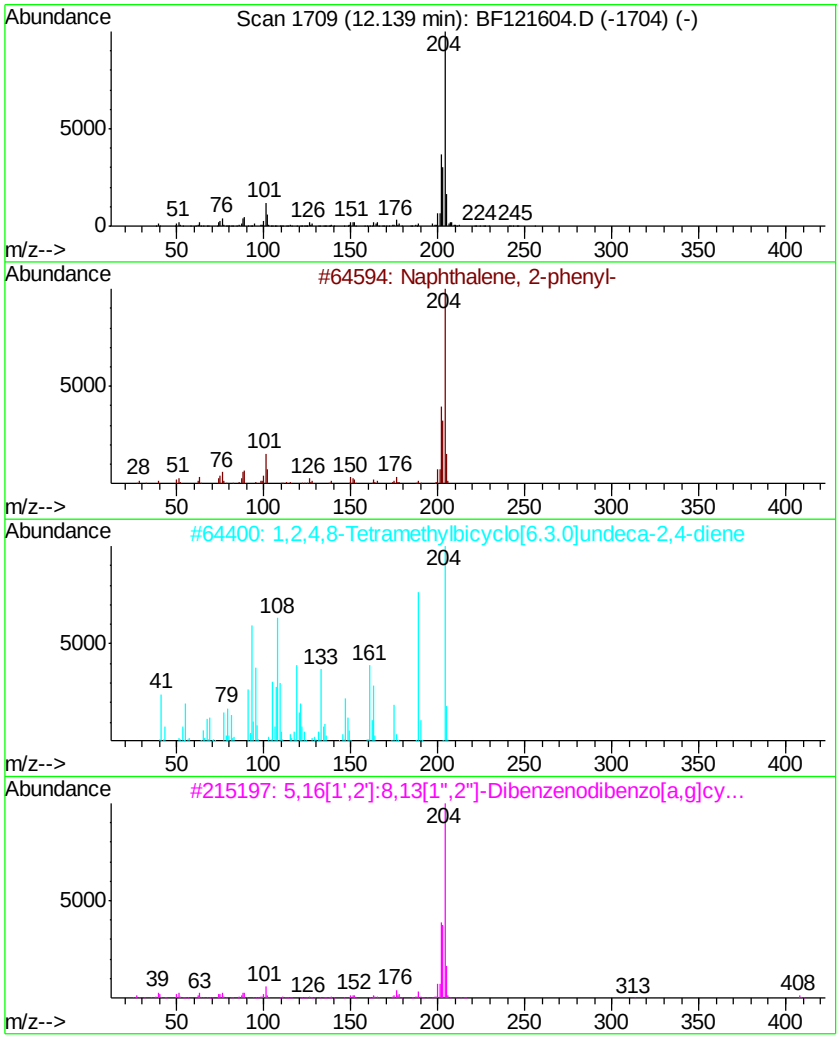
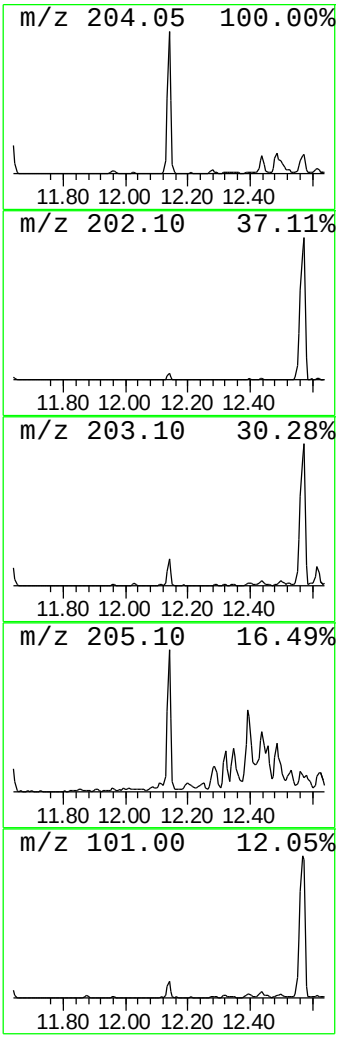
Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	13.01 ng	902008	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	96
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	95
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	83
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64





Library Search Compound Report

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Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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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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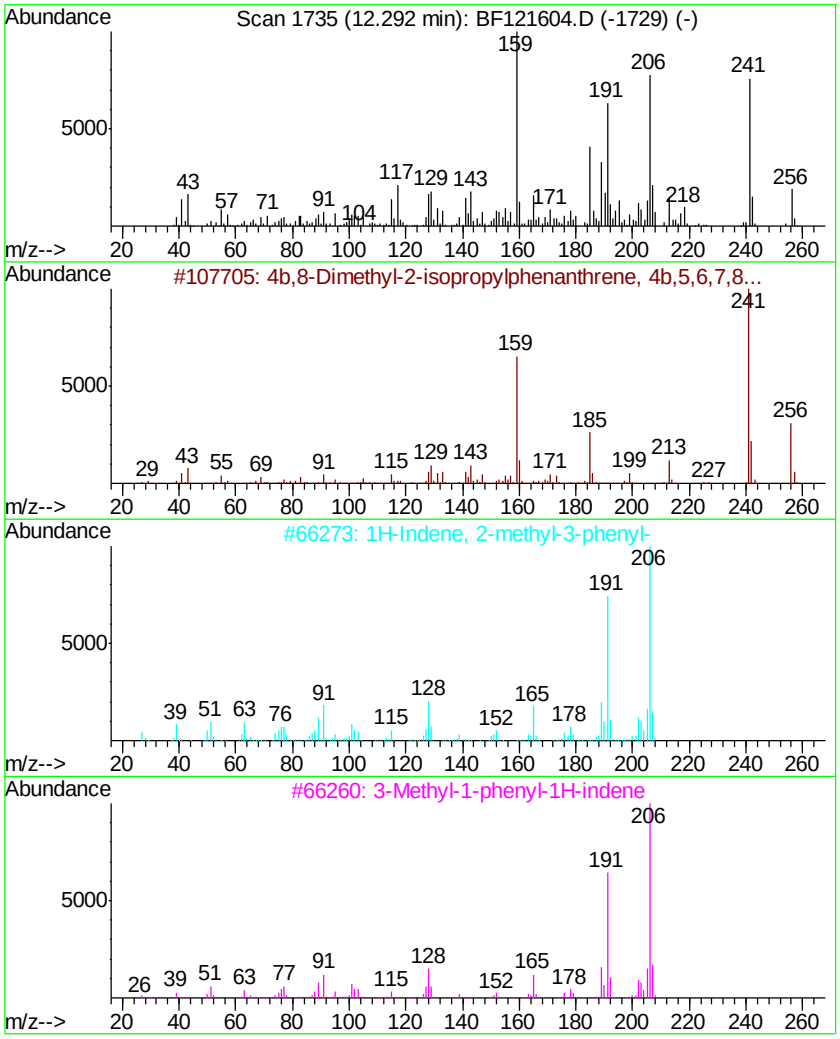
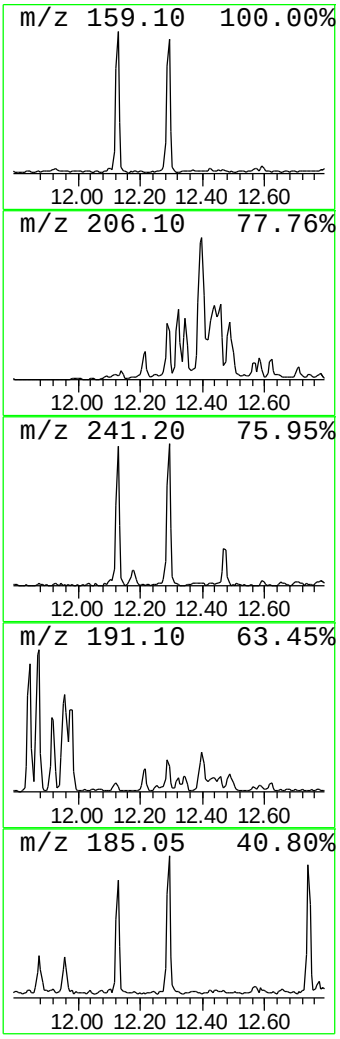
Peak Number 12 4b,8-Dimethyl-2-isopropylph... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	6.92 ng	479872	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4b,8-Dimethyl-2-isopropylphenant...	256	C19H28	1000197-14-1	94
2	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	76
3	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	74
4	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	70
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	48





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Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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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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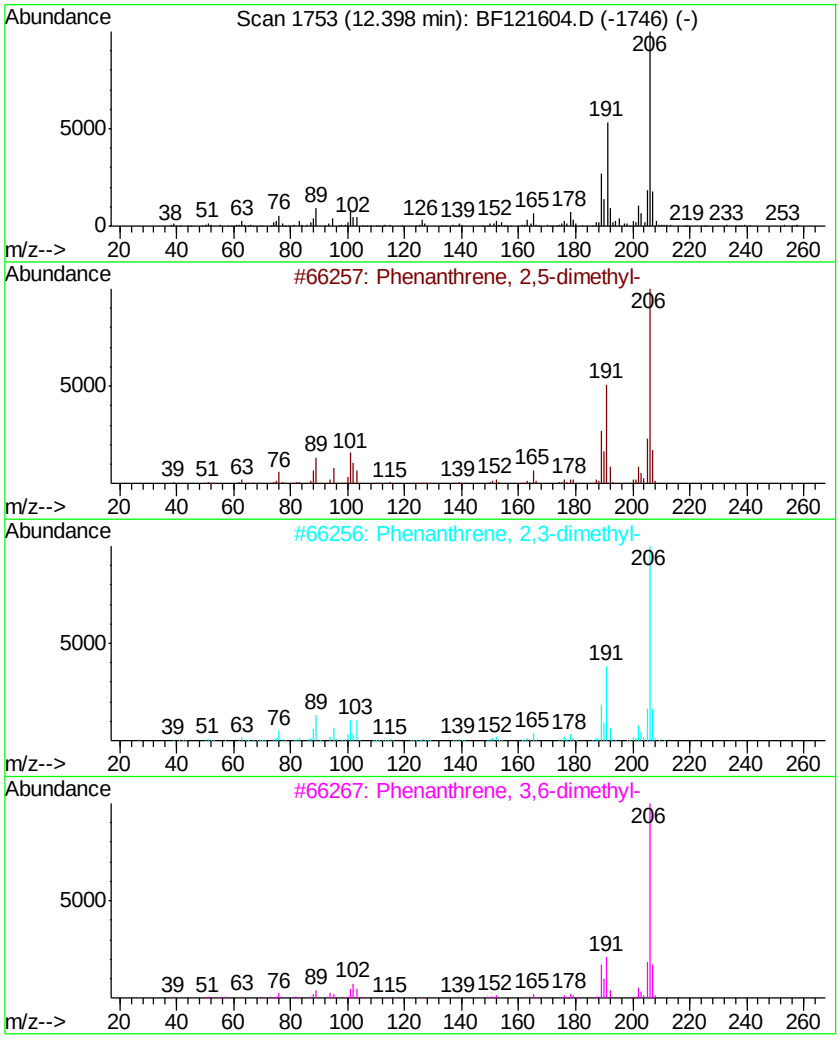
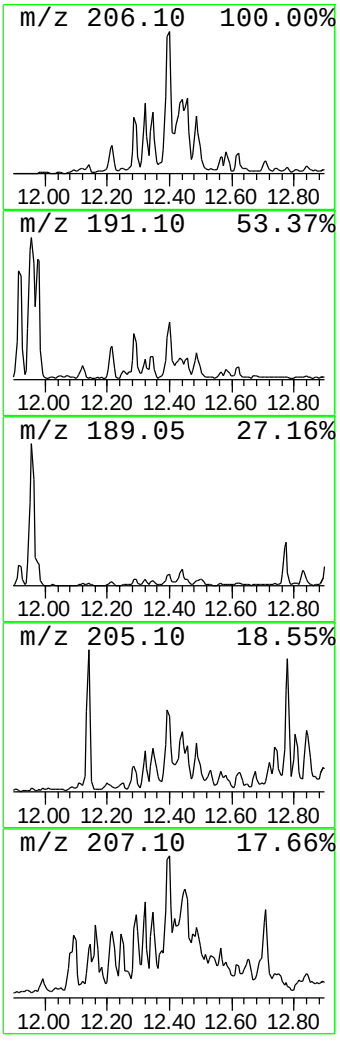
Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	7.68 ng	532886	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	94
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
4	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	90
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	90





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Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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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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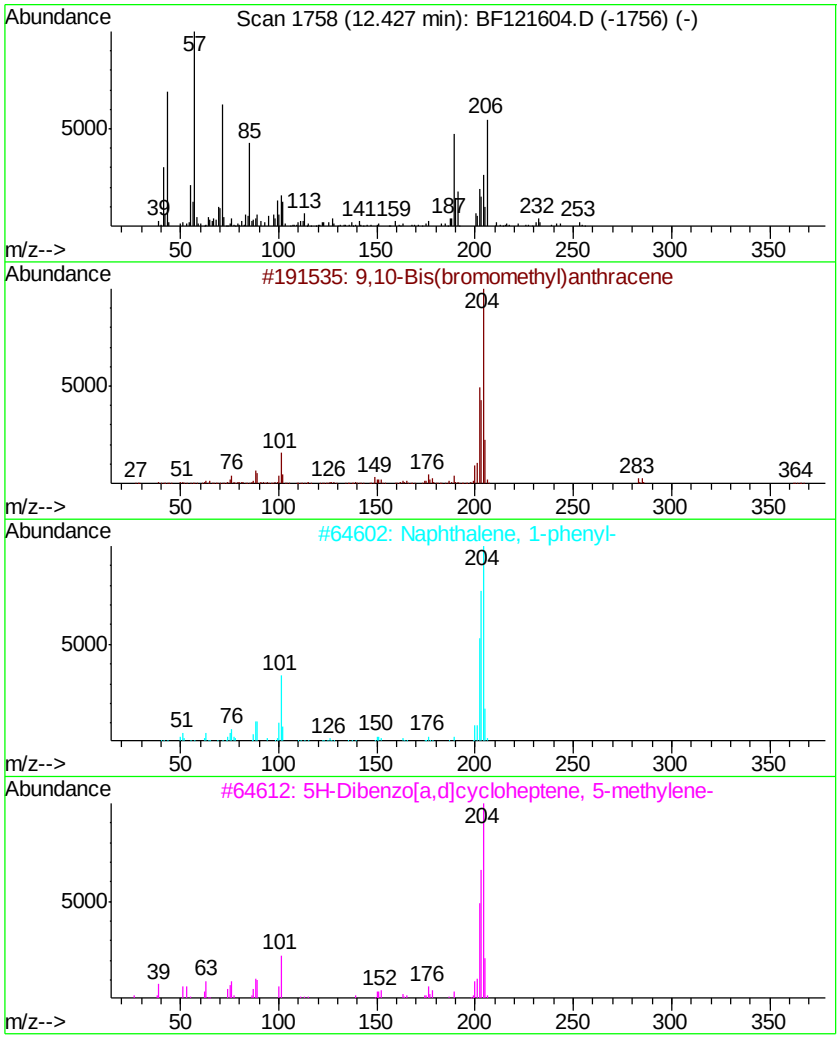
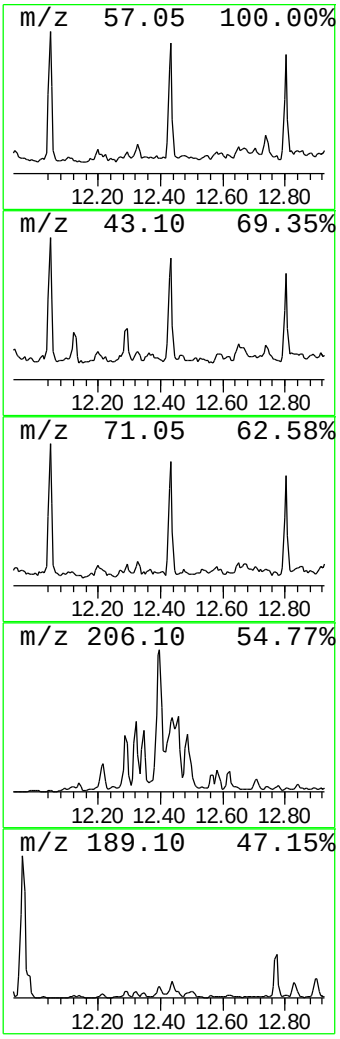
Peak Number 14 unknown12.43 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	6.26 ng	433854	Phenanthrene-d10	11.35

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	22
2	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	15
3	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	14
4	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	11
5	Octacosane	394	C28H58	000630-02-4	11





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Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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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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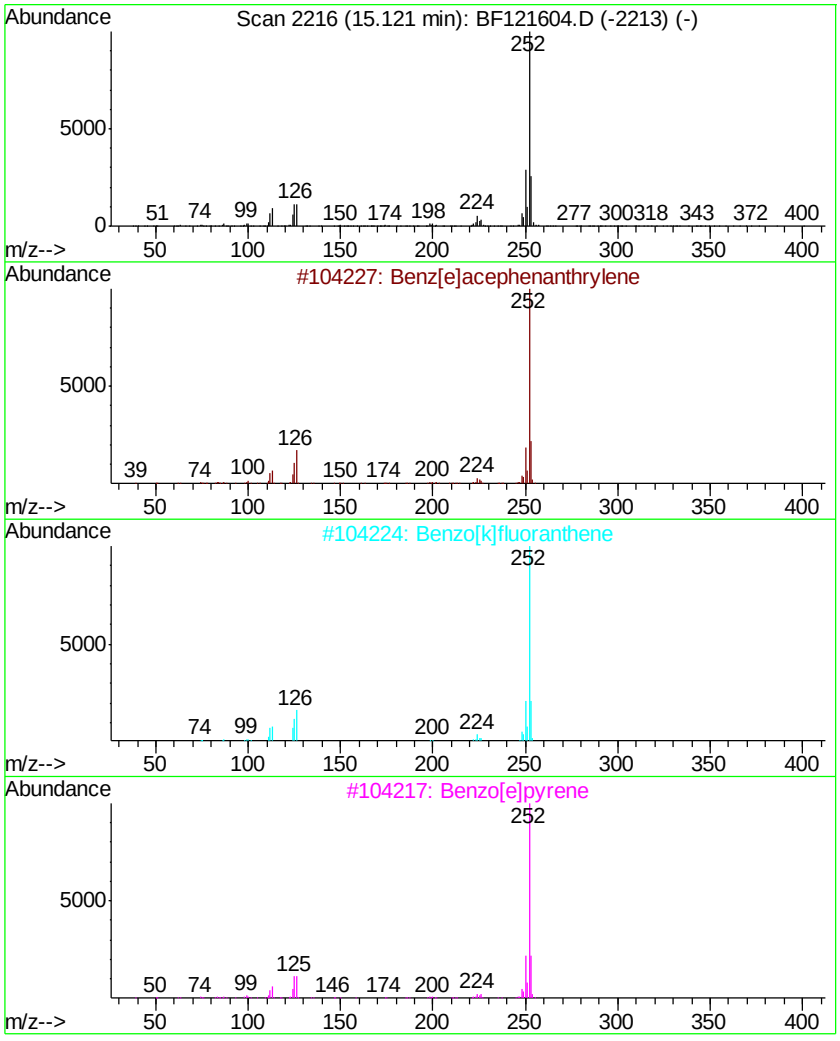
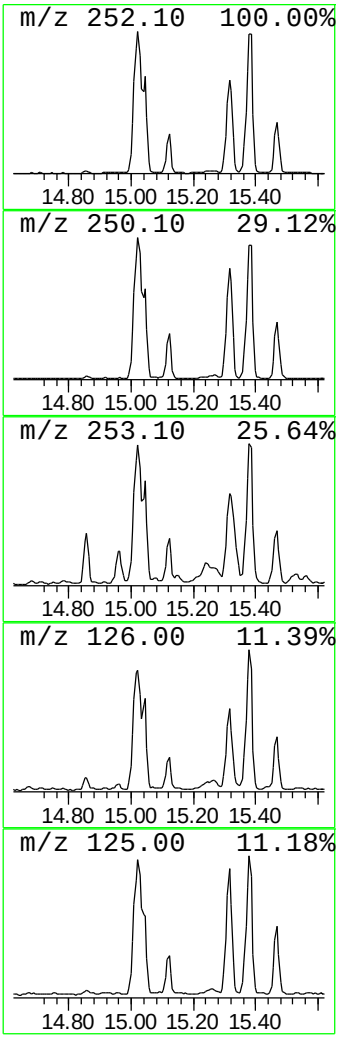
Peak Number 15 Perylene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.12	9.53 ng	476805	Perylene-d12	15.44

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





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Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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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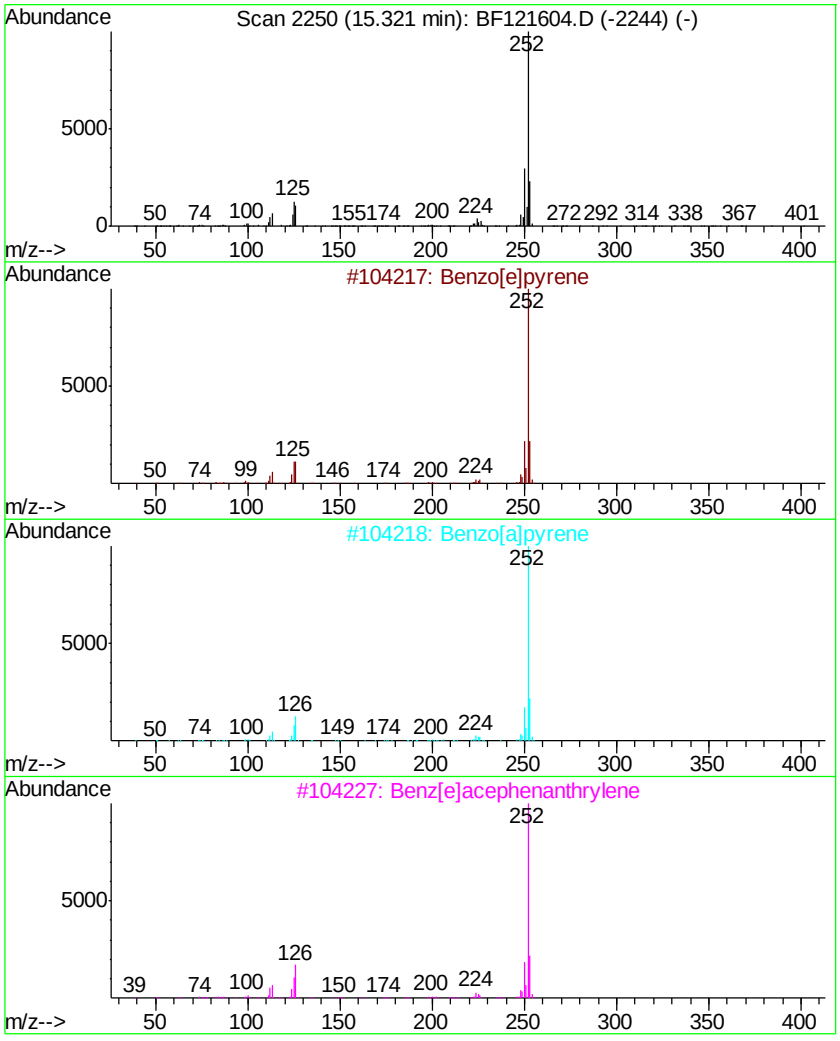
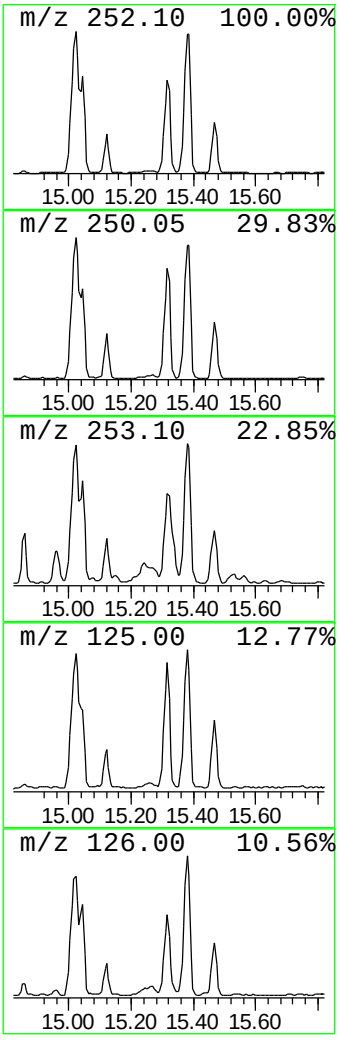
Peak Number 16 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.32	38.19 ng	1911050	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benzo[a]pyrene	252	C20H12	000050-32-8	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Perylene	252	C20H12	000198-55-0	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





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Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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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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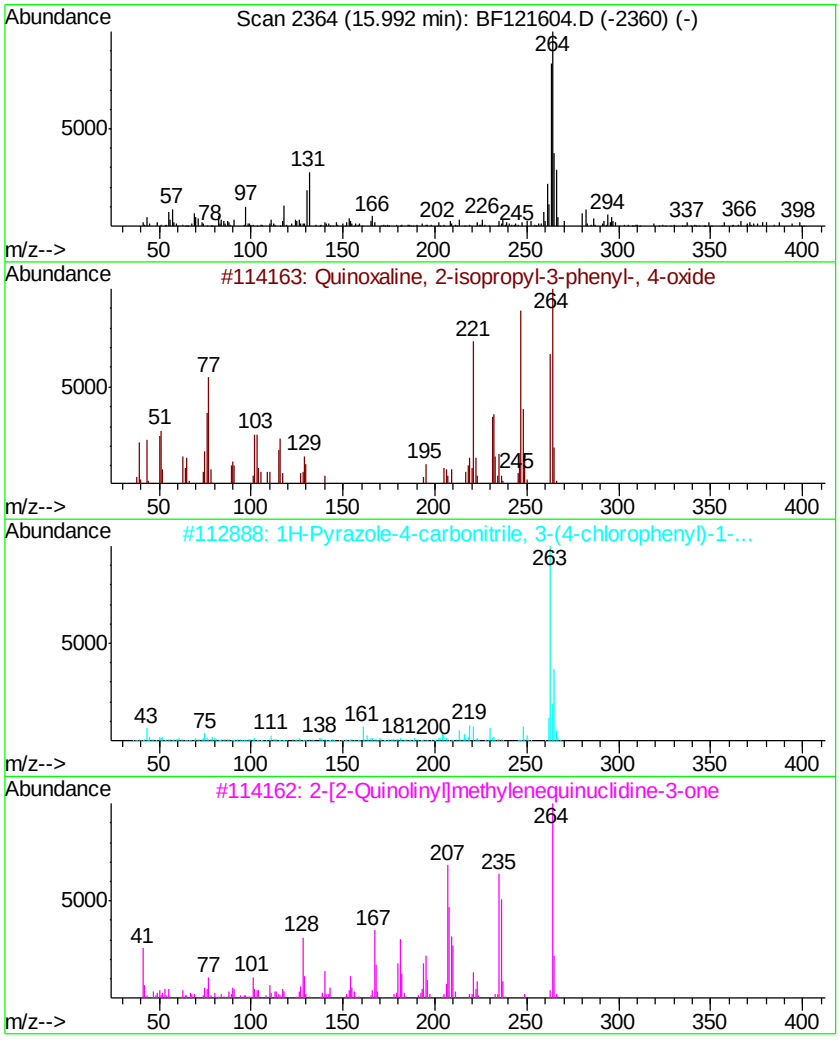
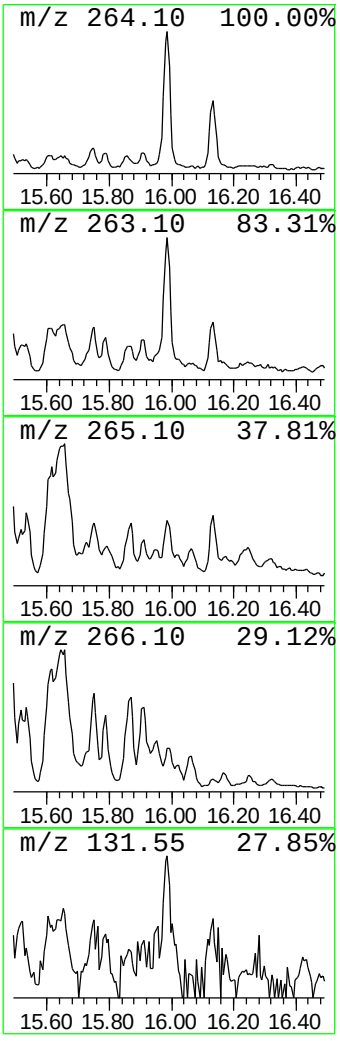
Peak Number 17 unknown15.99 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.99	5.78 ng	288968	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoxaline, 2-isopropyl-3-phenyl...	264	C17H16N2O	016007-79-7	49
2	1H-Pyrazole-4-carbonitrile, 3-(4...	263	C12H10ClN3S	068364-67-0	35
3	2-[2-Quinolinyl]methylenequinucl...	264	C17H16N2O	1000257-08-0	22
4	7-Carbomethoxy-5,8-dimethoxy-1-t...	264	C14H16O5	122136-07-6	18
5	Tetraethyl pyrophosphate	290	C8H20O7P2	000107-49-3	14





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121604.D
Acq On : 17 Sep 2020 18:54
Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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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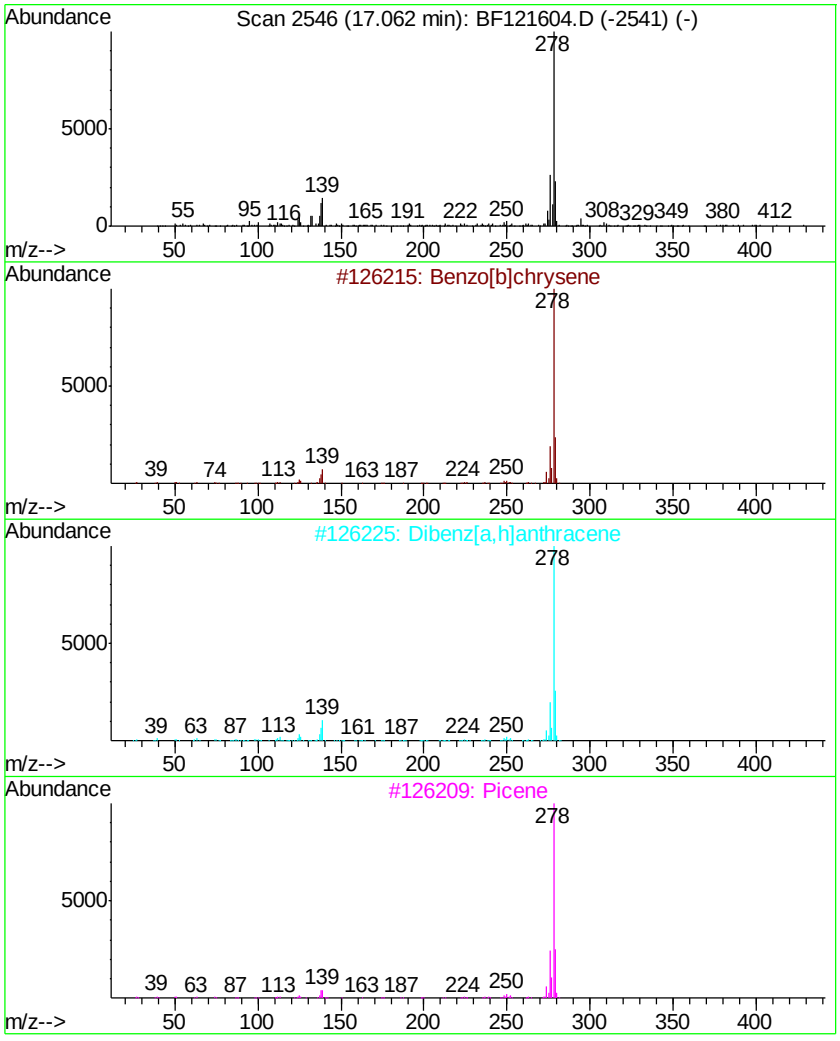
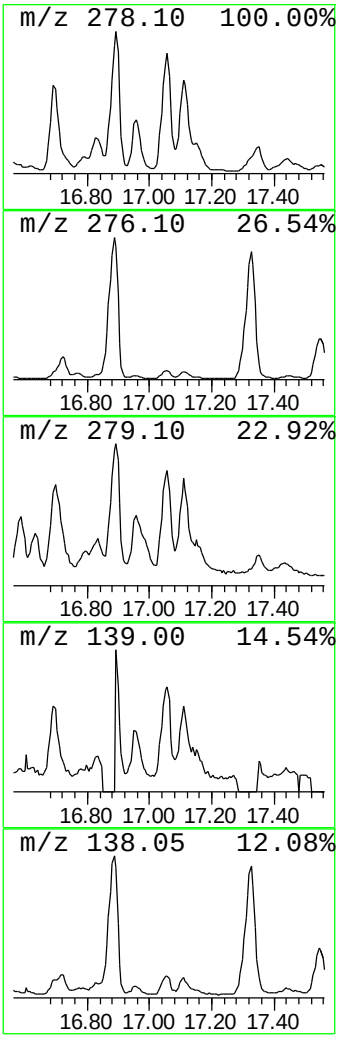
Peak Number 18 Benzo[b]chrysene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.06	5.74 ng	287306	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]chrysene	278	C22H14	000214-17-5	96
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	96
3	Picene	278	C22H14	000213-46-7	93
4	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
5	Pentaphene	278	C22H14	000222-93-5	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121604.D
Acq On : 17 Sep 2020 18:54
Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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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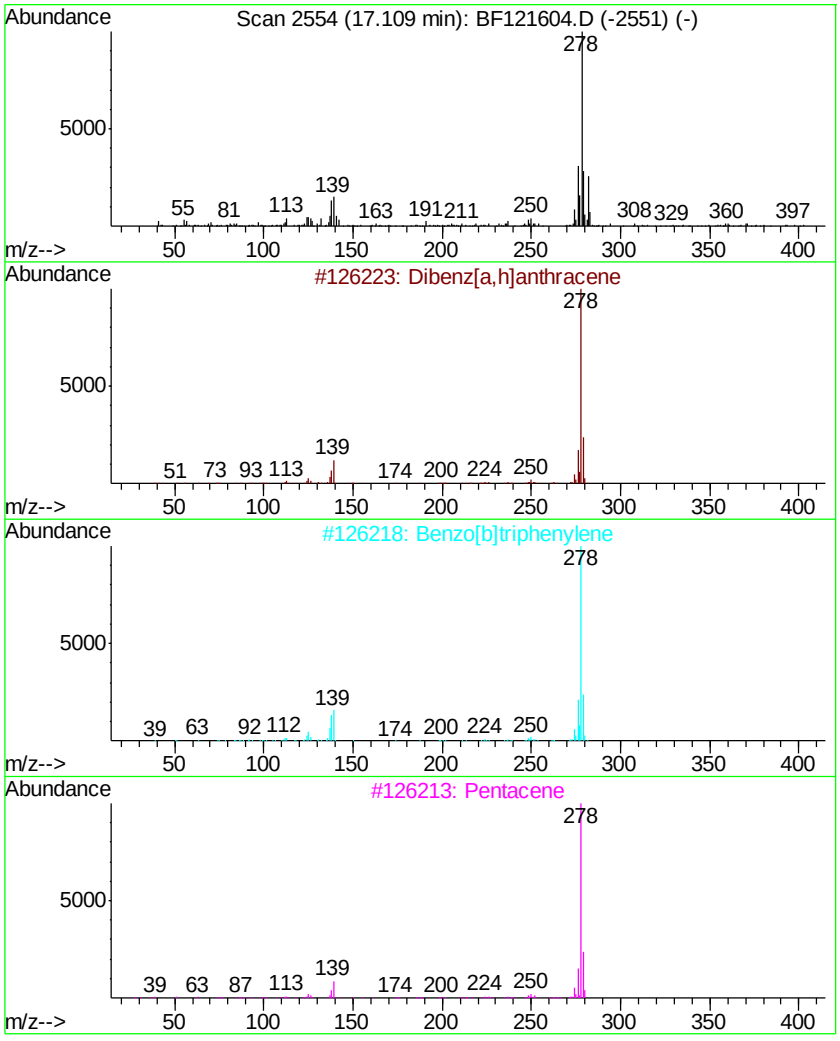
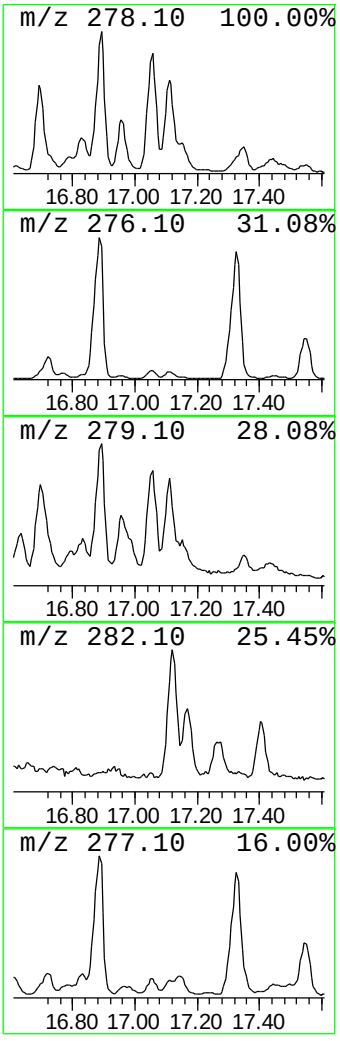
Peak Number 19 Benzo[b]triphenylene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.11	5.55 ng	277651	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	96
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	92
3	Pentacene	278	C22H14	000135-48-8	92
4	Picene	278	C22H14	000213-46-7	91
5	Benzo[b]chrysene	278	C22H14	000214-17-5	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091720\
Data File : BF121604.D
Acq On : 17 Sep 2020 18:54
Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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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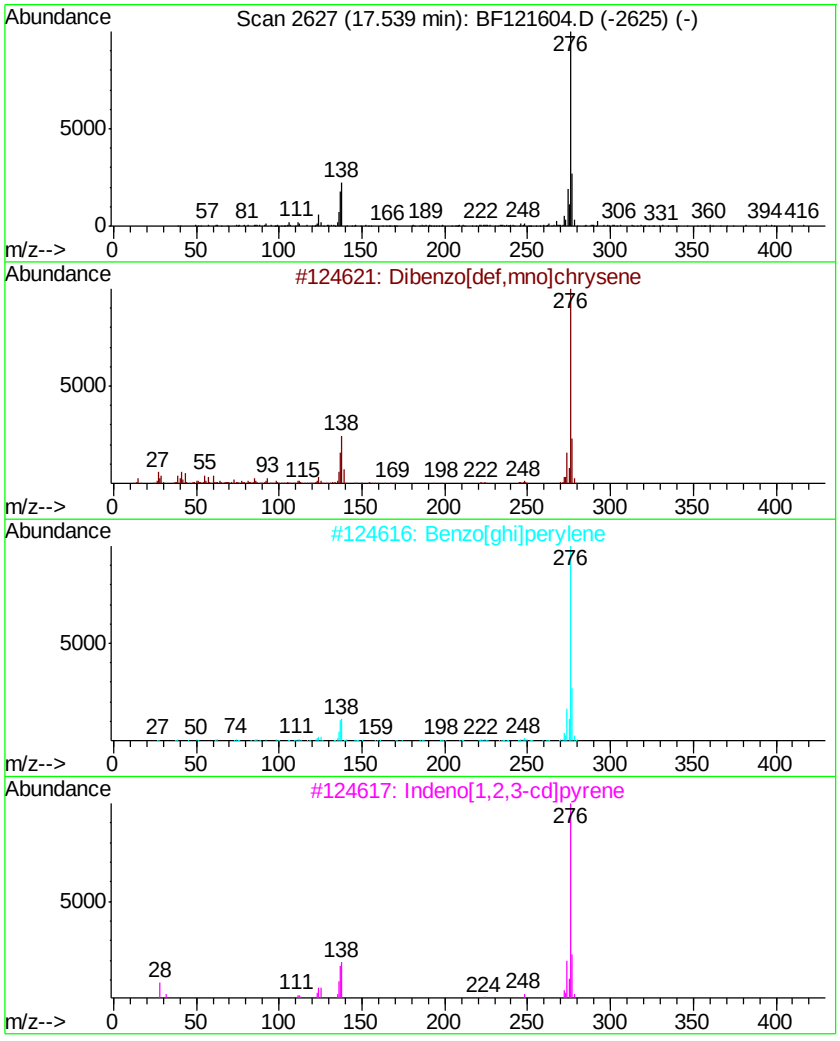
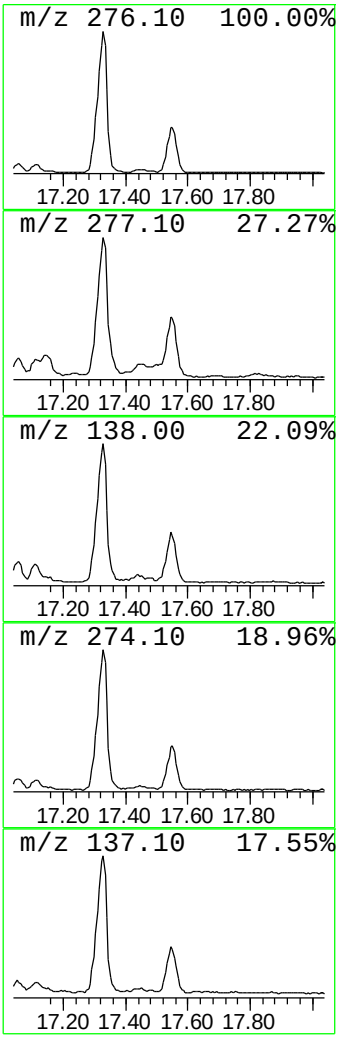
Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.54	9.12 ng	456323	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	97
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	97
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	87
4	Phenol, 2-(4-chlorophenyliminome...	276	C13H9ClN2O3	1000262-90-3	53
5	6H-Pyrido[4,3-b]carbazole, 9-met...	276	C18H16N2O	010371-86-5	49





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF091720\
Data File : BF121604.D
Acq On : 17 Sep 2020 18:54
Operator : JU/CG
Sample : L4038-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PAV-B36-091620-0-10

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
Butane, 2-methoxy...	2.13	6.4	ng	346595	1	6.82	1082370	20.0
Naphthalene, 2,3-...	9.52	5.5	ng	463595	3	9.86	1686620	20.0
Tridecane	10.76	7.1	ng	490577	4	11.35	1386920	20.0
9H-Fluorene, 2-me...	10.95	7.8	ng	539560	4	11.35	1386920	20.0
Naphtho[2,1-b]thi...	11.24	9.8	ng	683230	4	11.35	1386920	20.0
Phenanthrene, 2-m...	11.85	12.6	ng	873461	4	11.35	1386920	20.0
Phenanthrene, 1-m...	11.87	19.5	ng	1354630	4	11.35	1386920	20.0
1H-Cyclopropa[l]p...	11.92	9.6	ng	667057	4	11.35	1386920	20.0
4H-Cyclopenta[def...	11.96	23.5	ng	1628870	4	11.35	1386920	20.0
Naphthalene, 2-ph...	12.14	13.0	ng	902008	4	11.35	1386920	20.0
4b,8-Dimethyl-2-i...	12.29	6.9	ng	479872	4	11.35	1386920	20.0
Phenanthrene, 2,5...	12.40	7.7	ng	532886	4	11.35	1386920	20.0
unknown12.43	12.43	6.3	ng	433854	4	11.35	1386920	20.0
Perylene	15.12	9.5	ng	476805	6	15.44	1000730	20.0
Benzo[e]pyrene	15.32	38.2	ng	1911050	6	15.44	1000730	20.0
unknown15.99	15.99	5.8	ng	288968	6	15.44	1000730	20.0
Benzo[b]chrysene	17.06	5.7	ng	287306	6	15.44	1000730	20.0
Benzo[b]triphenylene	17.11	5.5	ng	277651	6	15.44	1000730	20.0
Dibenzo[def,mno]c...	17.54	9.1	ng	456323	6	15.44	1000730	20.0