LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
Data File : BF121718.D
Acq On : 28 Sep 2020 18:13
Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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	5.416	562	566	580	rBV	2689717	2472746	28.59%	2.166%
2	6.434	734	739	742	rBV	2784909	2517700	29.11%	2.206%
3	6.792	797	800	804	rBV	991563	872920	10.09%	0.765%
4	7.357	892	896	903	rBV	1741766	1769297	20.45%	1.550%
5	8.081	1013	1019	1021	rBV	1377779	1180263	13.64%	1.034%
6	8.098	1021	1022	1029	rVB	428974	311867	3.61%	0.273%
7	8.792	1137	1140	1145	rBV	217015	178161	2.06%	0.156%
8	8.892	1153	1157	1161	rBV	184620	168454	1.95%	0.148%
9	9.157	1197	1202	1205	rBV	3235662	2987726	34.54%	2.617%
10	9.492	1254	1259	1261	rBV	221728	222581	2.57%	0.195%
11	9.551	1265	1269	1272	rVV2	307589	320664	3.71%	0.281%
12	9.692	1289	1293	1297	rVB	701872	548765	6.34%	0.481%
13	9.833	1310	1317	1319	rBV	1588032	1359371	15.71%	1.191%
14	9.863	1319	1322	1326	rVB	1181723	918800	10.62%	0.805%
15	10.033	1347	1351	1355	rBV	632764	533385	6.17%	0.467%
16	10.380	1406	1410	1415	rVB	1105693	1030415	11.91%	0.903%
17	10.533	1434	1436	1440	rVB	327435	278829	3.22%	0.244%
18	10.622	1444	1451	1454	rBV	2120124	1971491	22.79%	1.727%
19	10.745	1467	1472	1478	rVB4	193801	251539	2.91%	0.220%
20	10.928	1496	1503	1505	rBV3	272260	381860	4.41%	0.335%
21	11.057	1520	1525	1526	rVV3	186200	245030	2.83%	0.215%
22	11.075	1526	1528	1530	rVV2	217892	214007	2.47%	0.187%
23	11.122	1533	1536	1540	rVV	531360	497322	5.75%	0.436%
24	11.169	1540	1544	1549	rVV4	216889	390904	4.52%	0.342%
25	11.216	1549	1552	1558	rVB	542851	554901	6.41%	0.486%
26	11.322	1564	1570	1571	rBV	1197533	1271587	14.70%	1.114%
27	11.351	1571	1575	1578	rVV	5871186	6974599	80.63%	6.110%
28	11.398	1578	1583	1585	rVV	2688746	2264997	26.18%	1.984%
29	11.427	1585	1588	1591	rVB2	280500	275353	3.18%	0.241%
30	11.551	1602	1609	1611	rBV2	1028797	1108389	12.81%	0.971%
31	11.610	1617	1619	1623	rVB2	297529	247948	2.87%	0.217%
32	11.651	1623	1626	1630	rVB3	194920	216362	2.50%	0.190%
33	11.822	1649	1655	1657	rBV	997372	968896	11.20%	0.849%
34	11.845	1657	1659	1663	rVB	1327795	1208386	13.97%	1.059%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
Data File : BF121718.D
Acq On : 28 Sep 2020 18:13
Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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	11.892	1663	1667	1670	rBV	575200	560246	6.48%	0.491%
36	11.933	1670	1674	1676	rBV	1818594	1851383	21.40%	1.622%
37	11.951	1676	1677	1682	rVB	689231	515232	5.96%	0.451%
38	11.998	1682	1685	1687	rBV2	159906	162402	1.88%	0.142%
39	12.022	1687	1689	1692	rVB2	209518	168156	1.94%	0.147%
40	12.116	1702	1705	1707	rVV	756775	667146	7.71%	0.584%
41	12.145	1707	1710	1713	rVB	533974	466381	5.39%	0.409%
42	12.263	1725	1730	1733	rBV	266737	312191	3.61%	0.274%
43	12.292	1733	1735	1737	rVV	241041	183910	2.13%	0.161%
44	12.316	1737	1739	1742	rVB	195340	179417	2.07%	0.157%
45	12.369	1744	1748	1751	rBV	523124	606636	7.01%	0.531%
46	12.410	1751	1755	1757	rVV3	382520	479265	5.54%	0.420%
47	12.463	1760	1764	1768	rBV	483558	573599	6.63%	0.503%
48	12.545	1772	1778	1781	rVB	6121544	8323479	96.22%	7.292%
49	12.598	1785	1787	1789	rVB	209883	164781	1.90%	0.144%
50	12.627	1789	1792	1795	rVB	280972	221294	2.56%	0.194%
51	12.680	1795	1801	1803	rBV3	420465	563157	6.51%	0.493%
52	12.774	1810	1817	1820	rBV2	5757477	8650327	100.00%	7.578%
53	12.810	1820	1823	1827	rVB2	418970	451148	5.22%	0.395%
54	12.880	1831	1835	1836	rBV	583921	542883	6.28%	0.476%
55	12.904	1836	1839	1845	rVB2	3066746	3174378	36.70%	2.781%
56	12.980	1846	1852	1855	rBV2	608506	1025672	11.86%	0.899%
57	13.010	1855	1857	1859	rVB	250544	185545	2.14%	0.163%
58	13.063	1863	1866	1868	rVV3	477812	581109	6.72%	0.509%
59	13.092	1868	1871	1873	rVB2	1222864	1141907	13.20%	1.000%
60	13.133	1873	1878	1879	rBV2	159516	246813	2.85%	0.216%
61	13.157	1879	1882	1884	rVV	803721	658811	7.62%	0.577%
62	13.192	1884	1888	1890	rVV2	891614	937779	10.84%	0.822%
63	13.216	1890	1892	1895	rVB	296054	266609	3.08%	0.234%
64	13.251	1895	1898	1901	rBV3	206677	228077	2.64%	0.200%
65	13.286	1901	1904	1906	rBV	433833	358412	4.14%	0.314%
66	13.316	1906	1909	1912	rBV2	490921	455440	5.27%	0.399%
67	13.474	1931	1936	1938	rBV4	225249	373671	4.32%	0.327%
68	13.569	1949	1952	1954	rBV3	166756	181849	2.10%	0.159%
69	13.598	1954	1957	1961	rVV	771861	765254	8.85%	0.670%
70	13.704	1972	1975	1978	rVV2	785570	873351	10.10%	0.765%
71	13.733	1978	1980	1982	rVV	822494	686715	7.94%	0.602%

LSC Area Percent Report

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Acq On : 28 Sep 2020 18:13
Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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	13.757	1982	1984	1990	rVV3	585481	1017548	11.76%	0.891%
73	13.804	1990	1992	1999	rVB	1035601	1054399	12.19%	0.924%
74	13.957	2011	2018	2021	rBV2	4000210	6109356	70.63%	5.352%
75	13.992	2021	2024	2031	rVB	3526368	3742458	43.26%	3.279%
76	14.068	2034	2037	2041	rVV	832853	781601	9.04%	0.685%
77	14.104	2041	2043	2045	rVV	281133	301634	3.49%	0.264%
78	14.151	2048	2051	2053	rVV	358152	342401	3.96%	0.300%
79	14.180	2053	2056	2059	rVV2	466780	585830	6.77%	0.513%
80	14.304	2075	2077	2080	rVV2	253894	287040	3.32%	0.251%
81	14.345	2080	2084	2087	rVV	898257	915803	10.59%	0.802%
82	14.380	2087	2090	2093	rVB	426569	387983	4.49%	0.340%
83	14.468	2103	2105	2107	rBV	447138	356890	4.13%	0.313%
84	14.492	2107	2109	2112	rVB2	421972	350255	4.05%	0.307%
85	14.539	2112	2117	2122	rVB4	323791	540176	6.24%	0.473%
86	14.651	2133	2136	2139	rBV2	353978	403173	4.66%	0.353%
87	14.833	2163	2167	2171	rBV2	302606	406313	4.70%	0.356%
88	15.004	2189	2196	2199	rBV	2979882	5586645	64.58%	4.894%
89	15.098	2209	2212	2216	rVB	781484	795412	9.20%	0.697%
90	15.180	2223	2226	2227	rBV2	183442	181212	2.09%	0.159%
91	15.298	2240	2246	2251	rVB	1768555	2656689	30.71%	2.327%
92	15.363	2251	2257	2261	rVB	2729189	3776085	43.65%	3.308%
93	15.415	2261	2266	2268	rBV	821031	1040165	12.02%	0.911%
94	15.445	2268	2271	2277	rVB2	1030810	1415643	16.37%	1.240%
95	15.957	2355	2358	2363	rVB2	200927	250319	2.89%	0.219%
96	16.862	2504	2512	2517	rVB	1304320	2665420	30.81%	2.335%
97	17.015	2532	2538	2542	rBV	299281	552179	6.38%	0.484%
98	17.068	2544	2547	2552	rVB2	196377	322252	3.73%	0.282%
99	17.292	2577	2585	2597	rVB	873996	2078083	24.02%	1.821%
100	17.509	2617	2622	2636	rVB2	313147	742177	8.58%	0.650%

Sum of corrected areas: 114145081

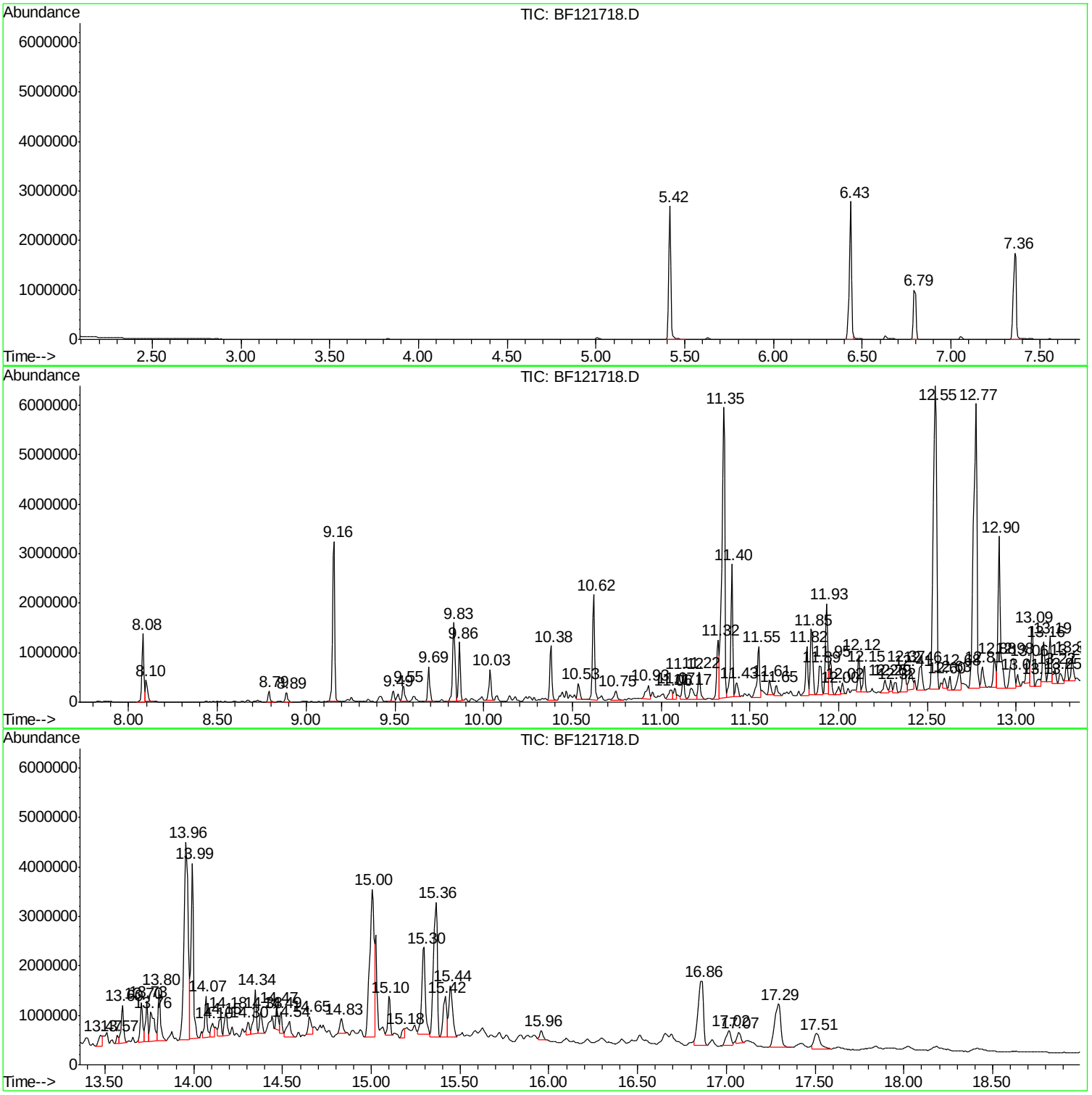
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
Data File : BF121718.D
Acq On : 28 Sep 2020 18:13
Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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\BF092820\
Data File : BF121718.D
Acq On : 28 Sep 2020 18:13
Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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

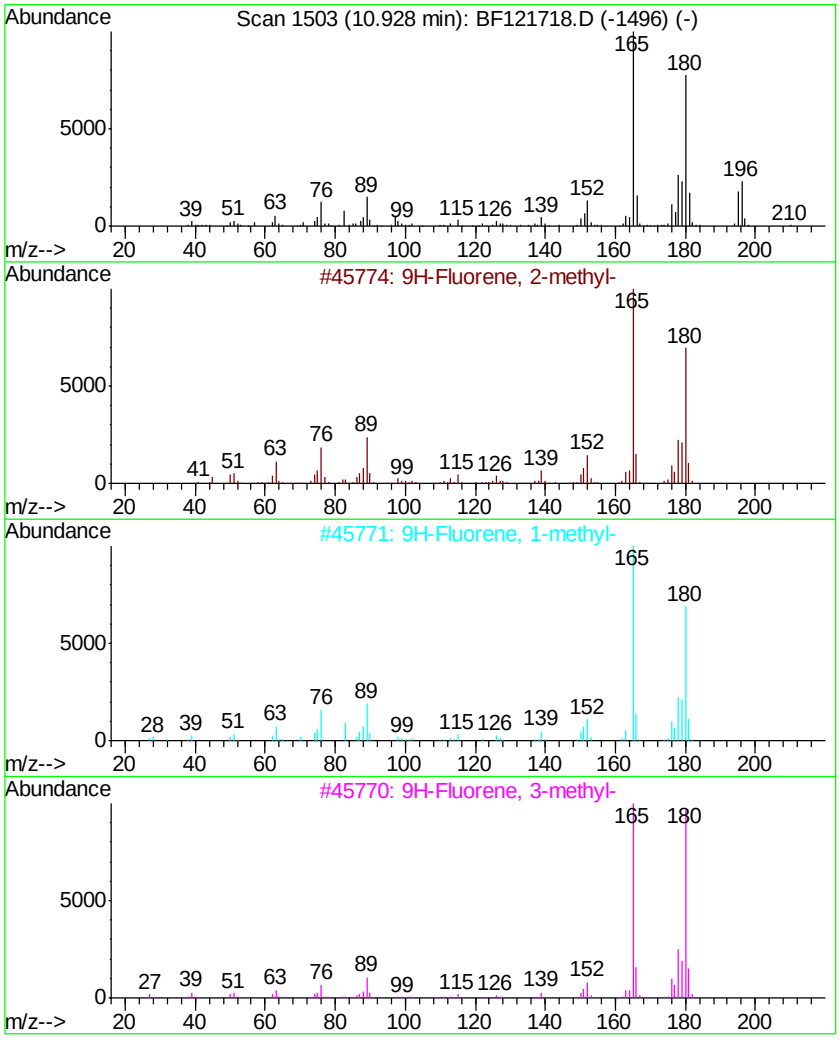
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

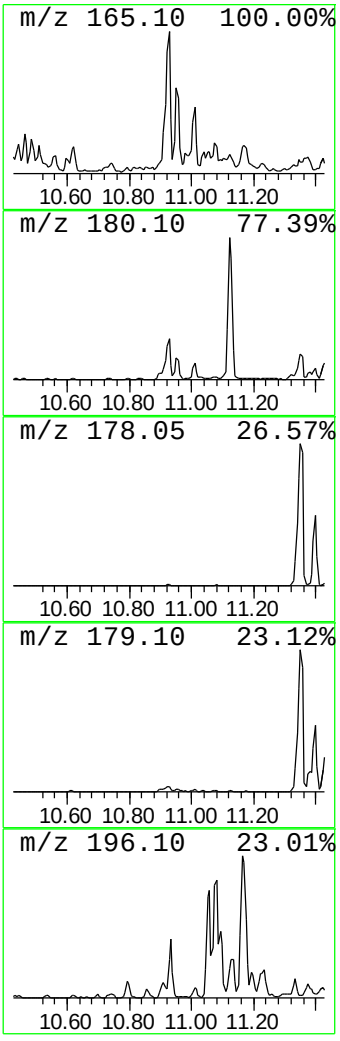
****

Peak Number 1 9H-Fluorene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.93	6.01 ng	381860	Phenanthrene-d10	11.32

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	95
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	95
4	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	89
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	89





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
Data File : BF121718.D
Acq On : 28 Sep 2020 18:13
Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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

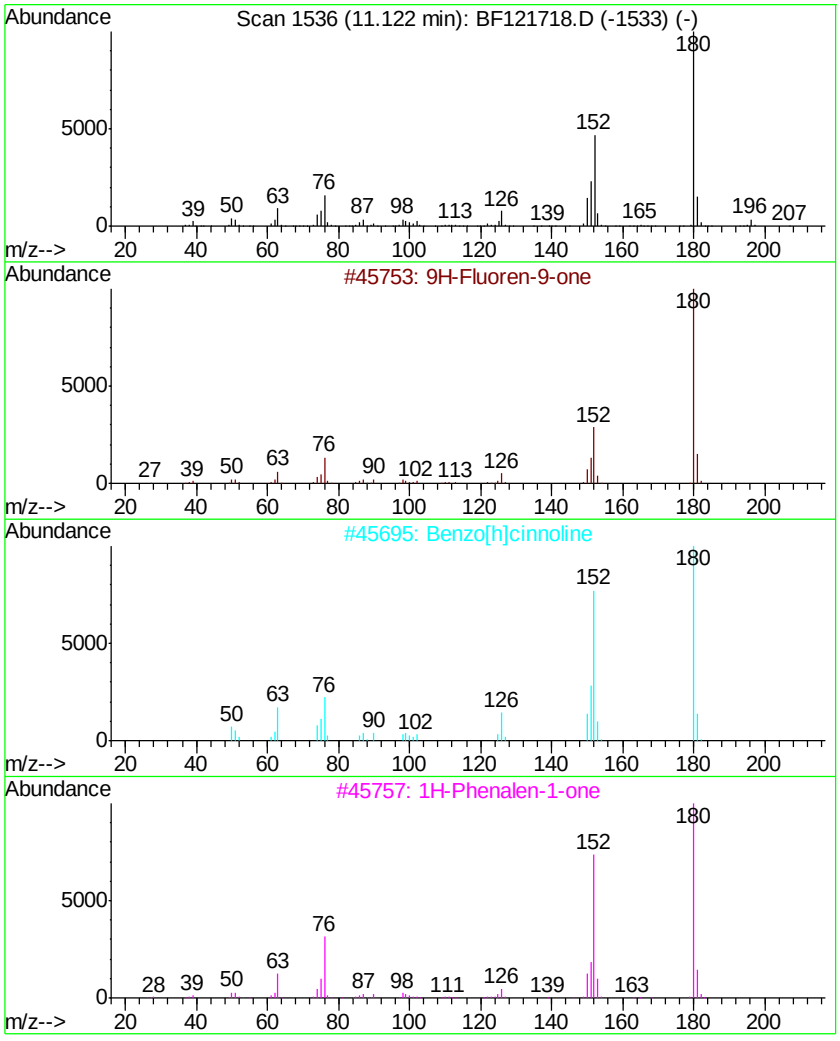
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

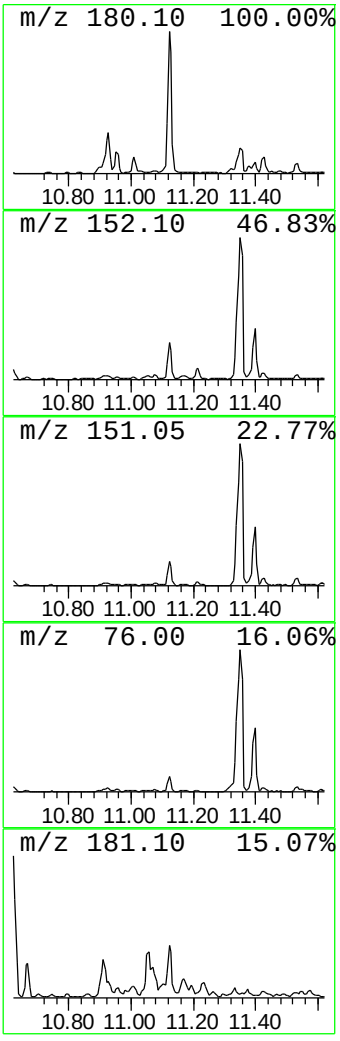
****

Peak Number 2 9H-Fluoren-9-one Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.12	7.82 ng	497322	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64
4	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	50
5	Phenazine	180	C12H8N2	000092-82-0	43





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
Data File : BF121718.D
Acq On : 28 Sep 2020 18:13
Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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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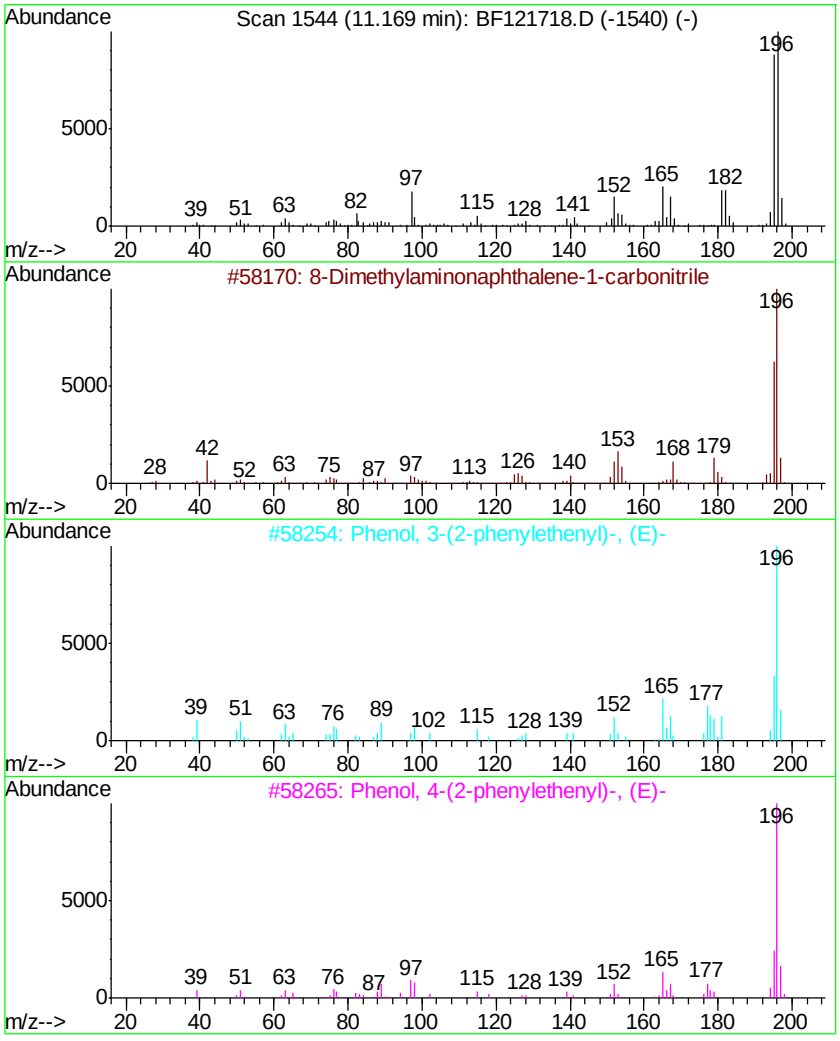
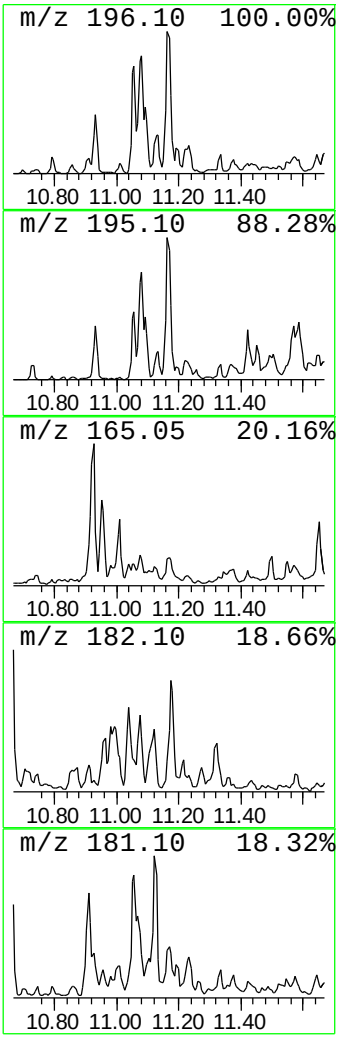
Peak Number 3 8-Dimethylaminonaphthalene-... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.17	6.15 ng	390904	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8-Dimethylaminonaphthalene-1-car...	196	C13H12N2	128644-69-9	72
2	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	58
3	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	58
4	Perimidine, 2-ethyl-	196	C13H12N2	028478-13-9	58
5	5,7-Dimethylpyrimido-[3,4-a]-indole	196	C13H12N2	038349-21-2	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
Data File : BF121718.D
Acq On : 28 Sep 2020 18:13
Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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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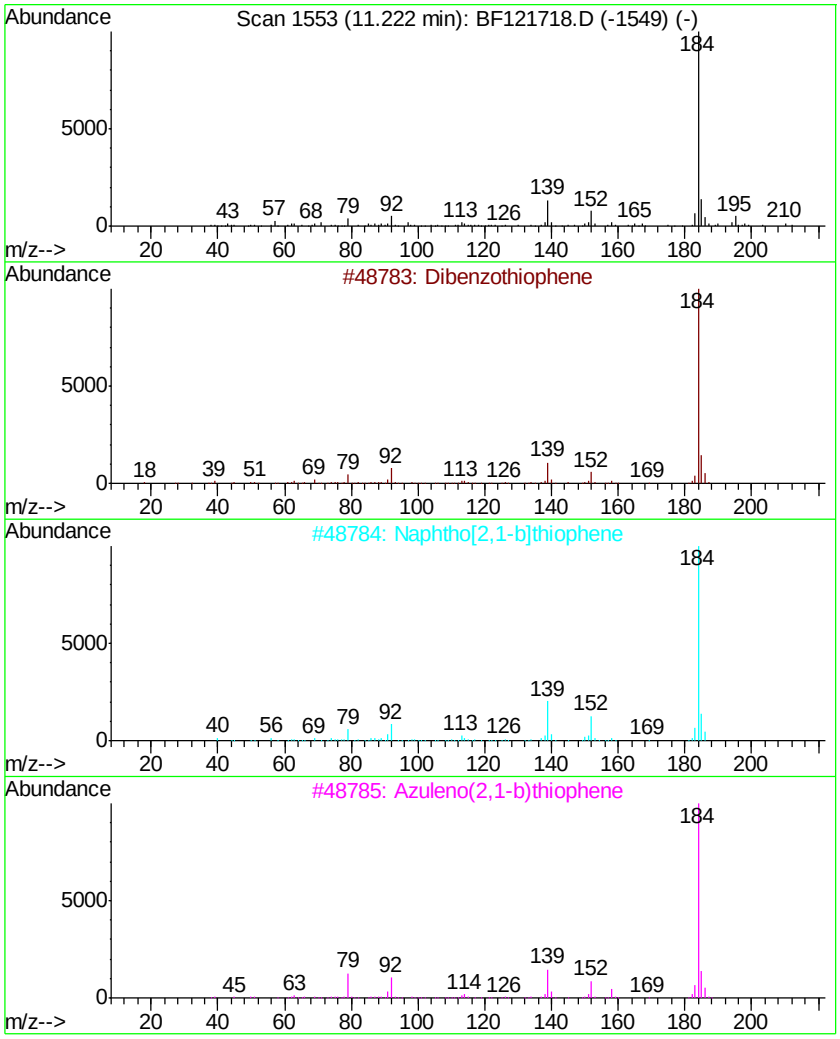
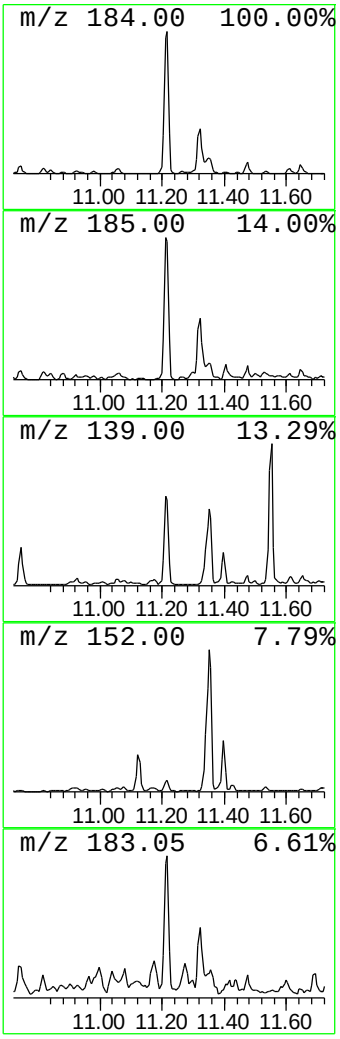
Peak Number 4 Dibenzothiophene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.22	8.73 ng	554901	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90
4	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72
5	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	56





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
Data File : BF121718.D
Acq On : 28 Sep 2020 18:13
Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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

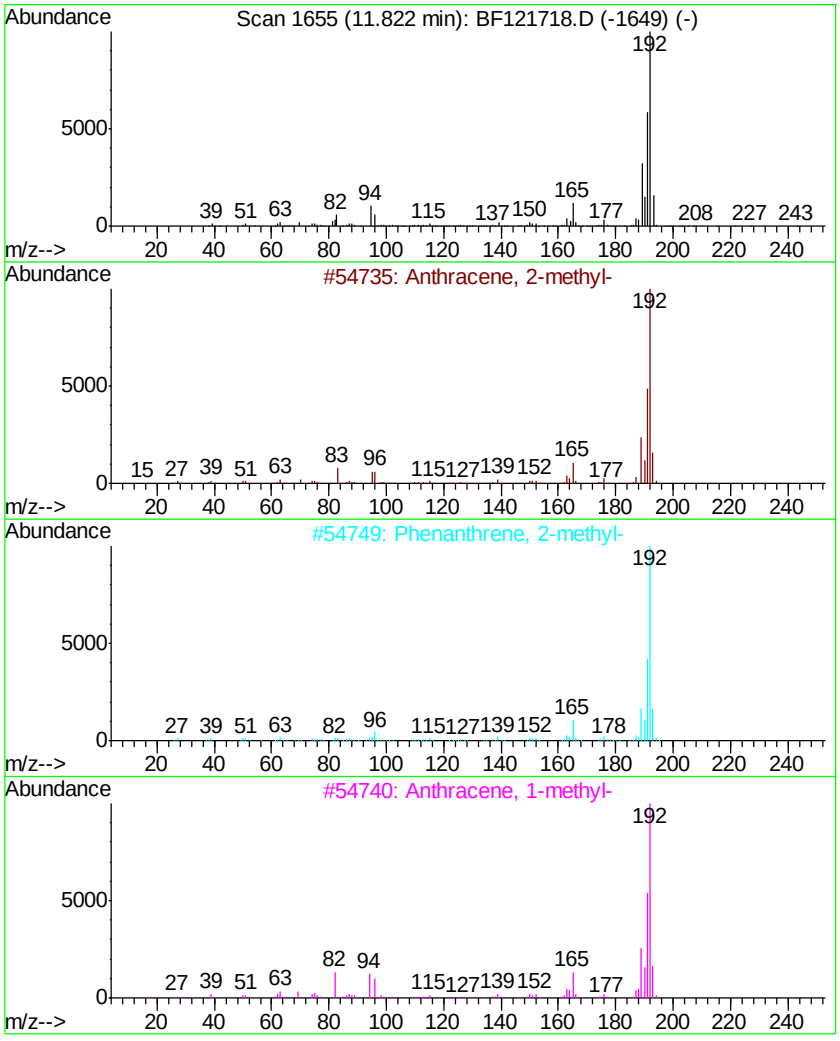
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

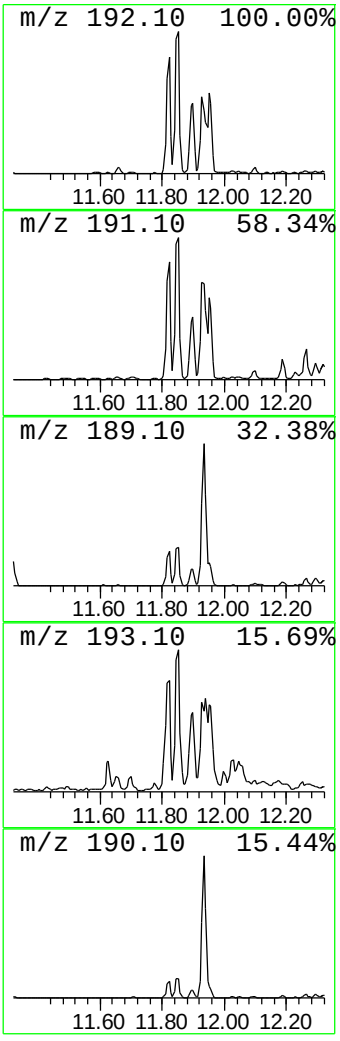
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	15.24 ng	968896	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	92
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
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Acq On : 28 Sep 2020 18:13
Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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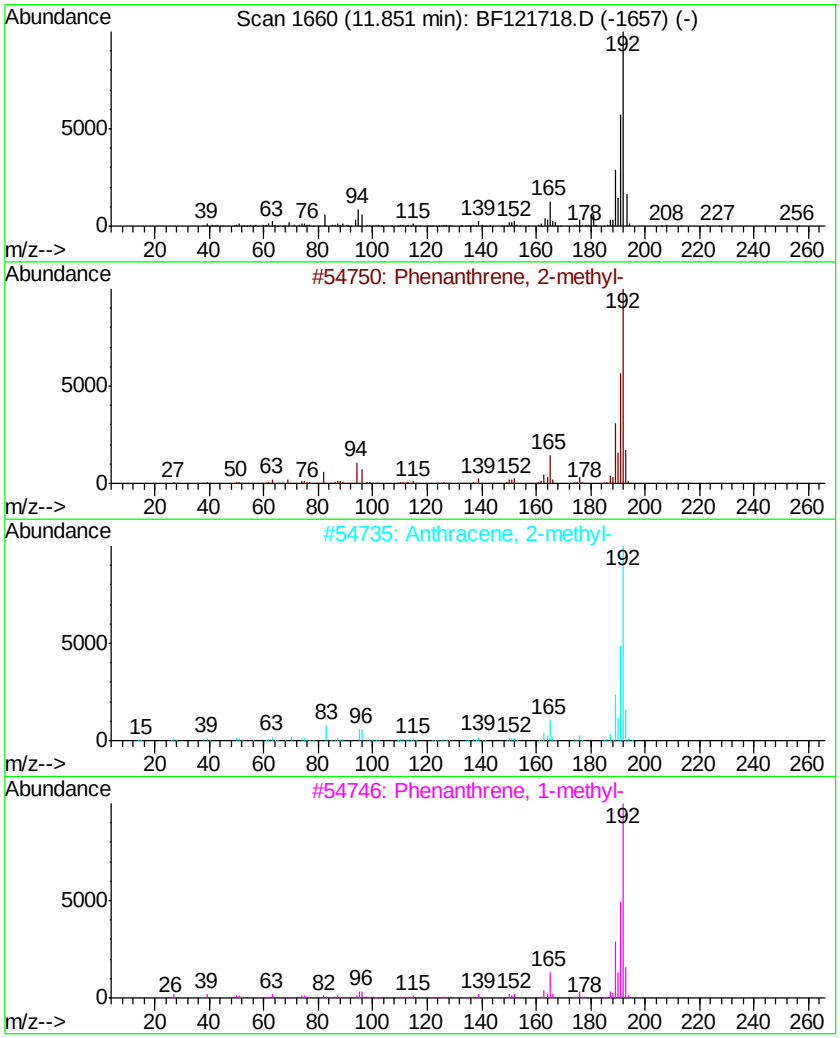
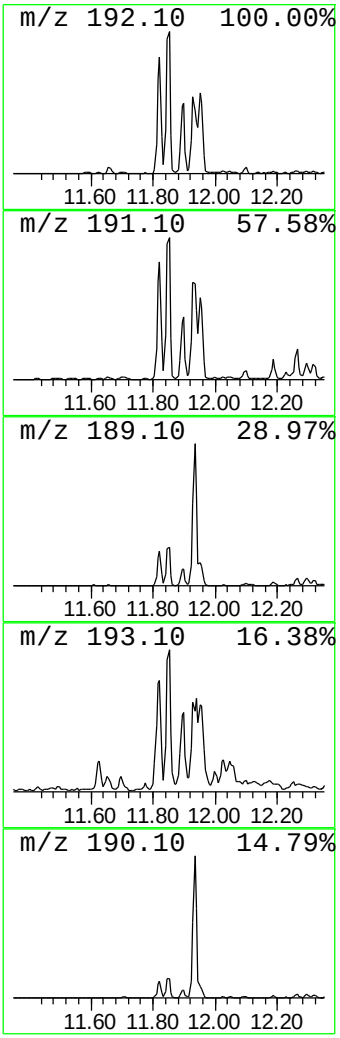
Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.85	19.01 ng	1208390	Phenanthrene-d10	11.32

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	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94





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Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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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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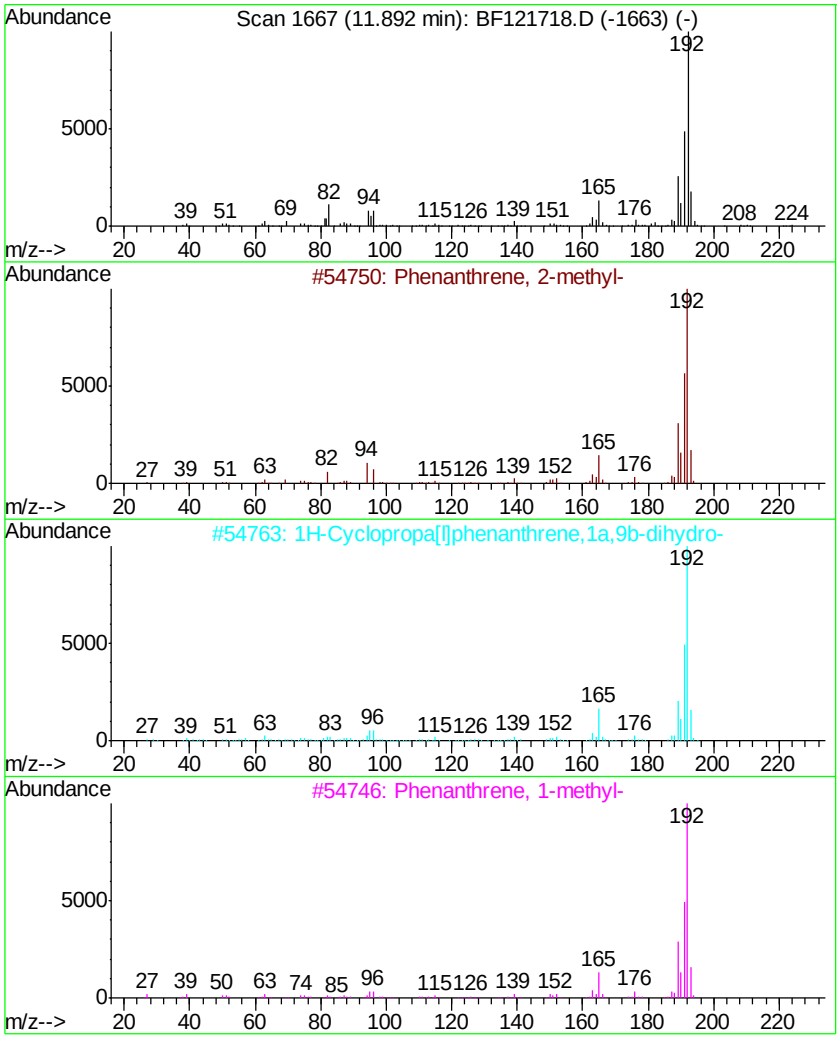
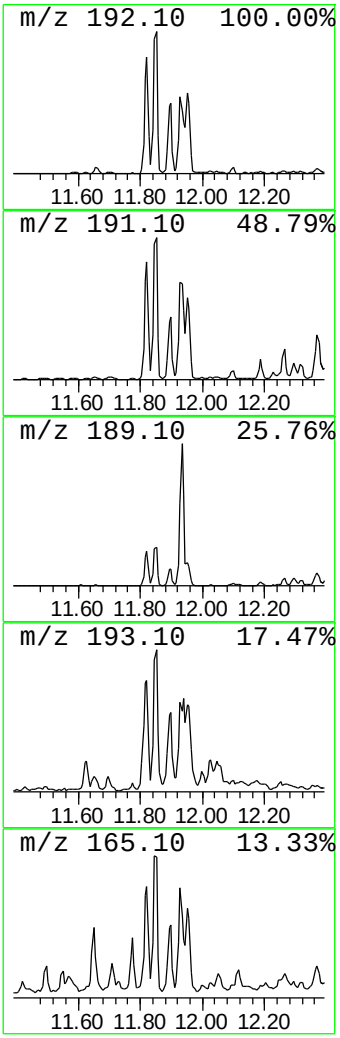
Peak Number 7 1H-Cyclopropa[l]phenanthren... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	8.81 ng	560246	Phenanthrene-d10	11.32

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	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94





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Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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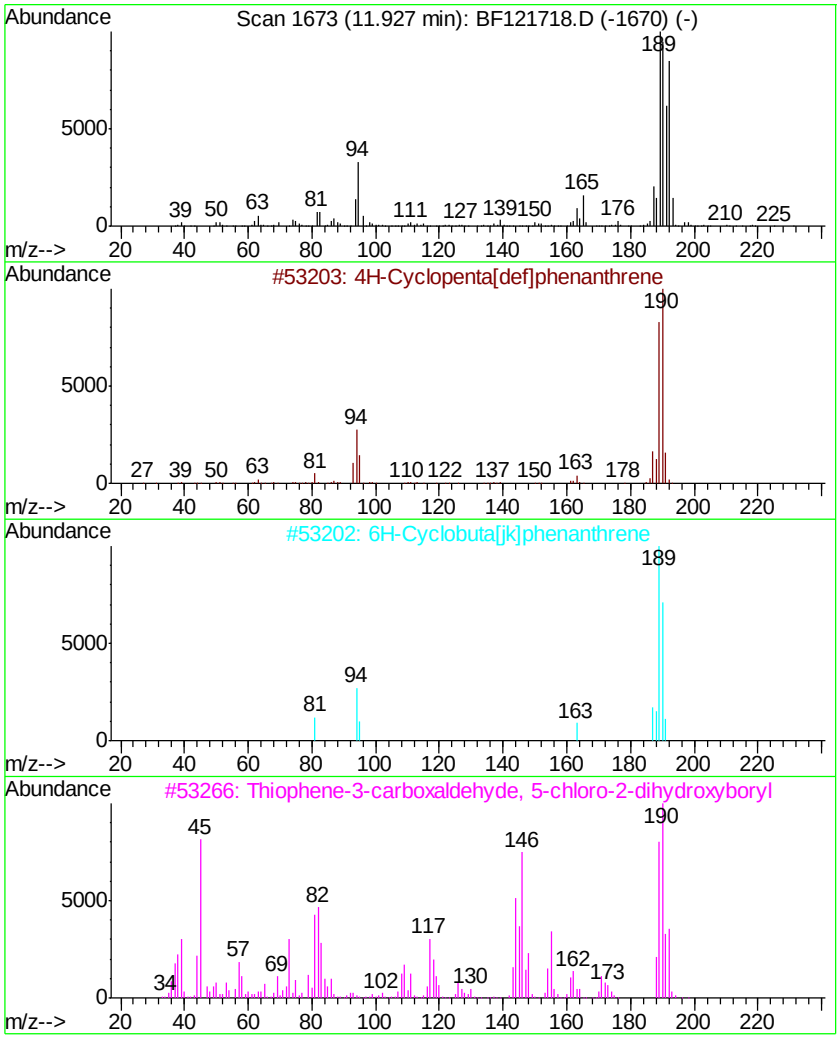
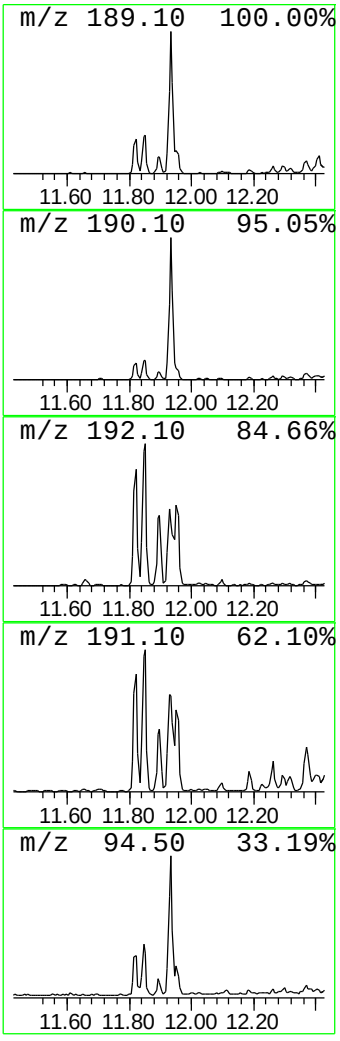
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	29.12 ng	1851380	Phenanthrene-d10	11.32

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	Methyl diselenide	190	C2H6Se2	007101-31-7	46





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Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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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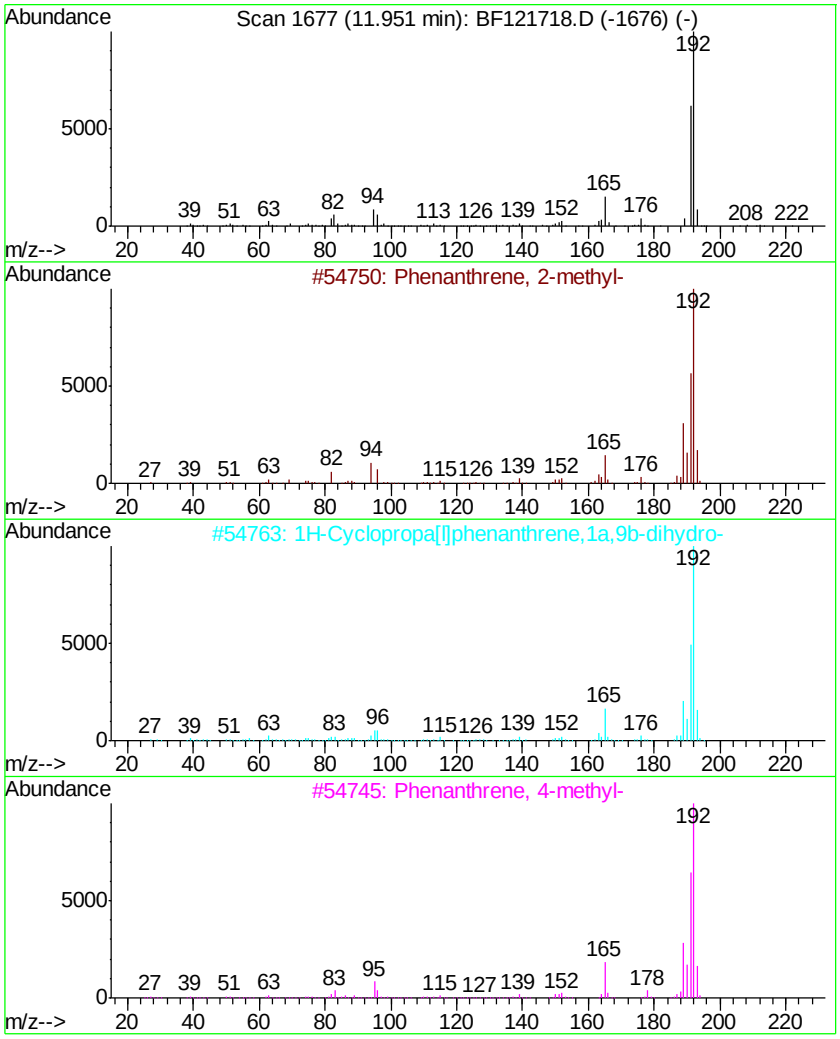
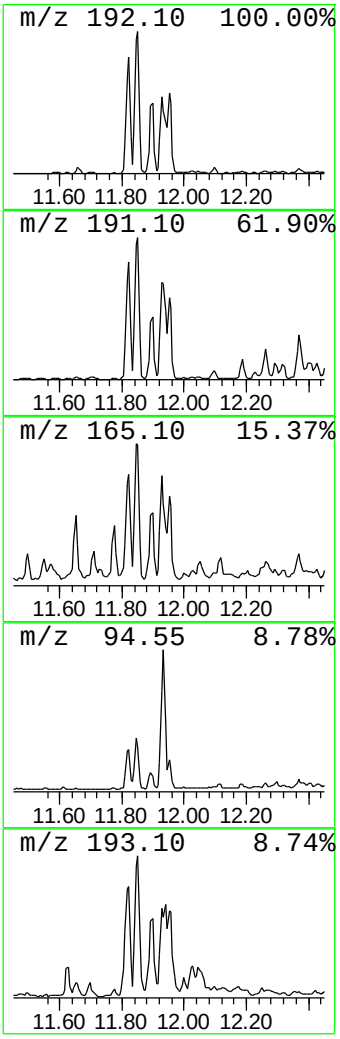
Peak Number 9 Phenanthrene, 4-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	8.10 ng	515232	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	80
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	74
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	74
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	72
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	72





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Acq On : 28 Sep 2020 18:13
Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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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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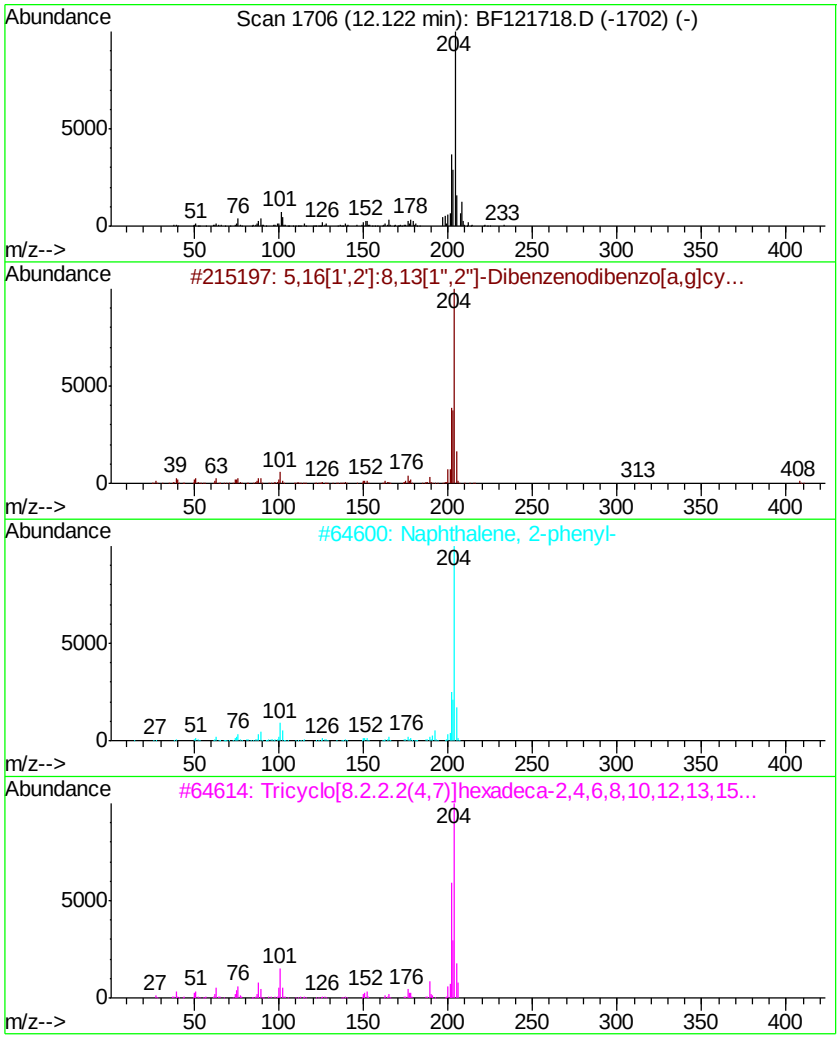
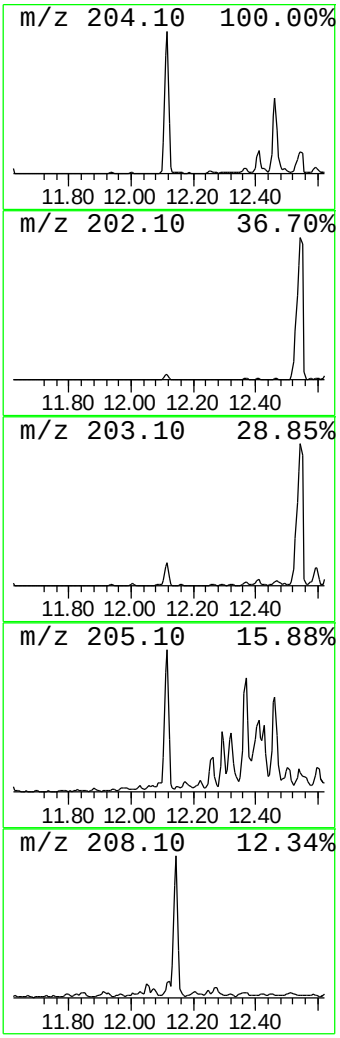
Peak Number 10 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	10.49 ng	667146	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	62
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	55
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	47





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Misc :
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ClientSampleId : B-5(5-7)

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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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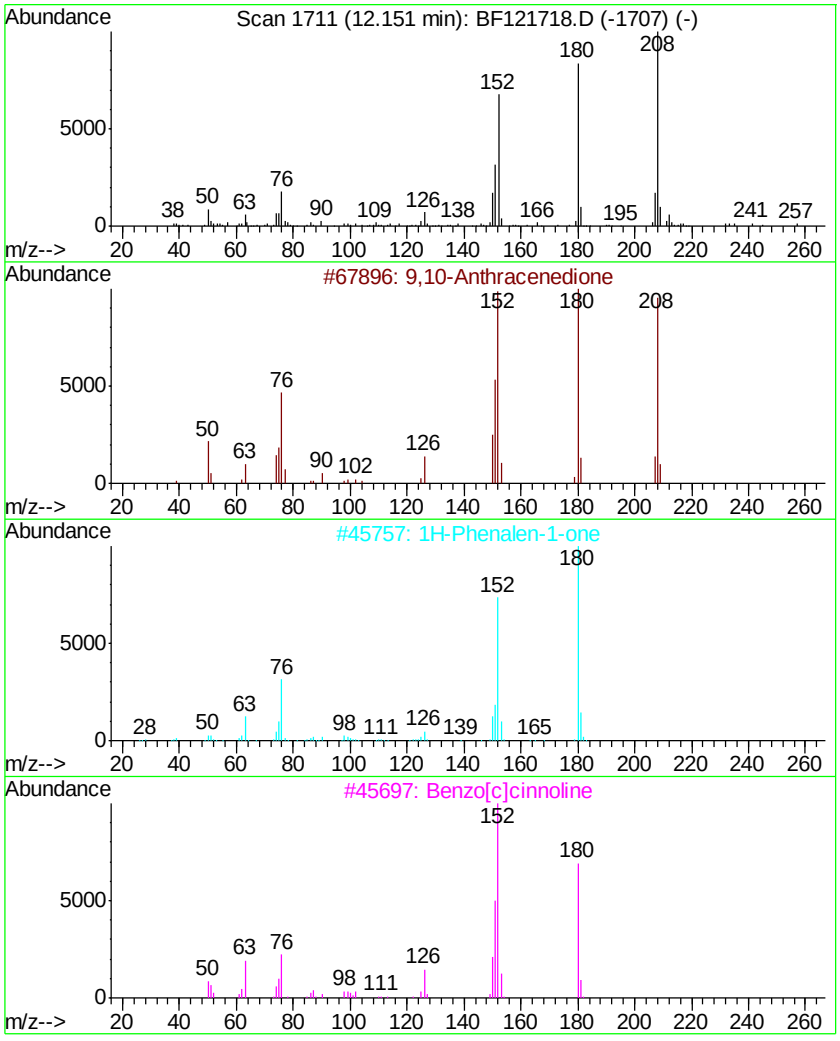
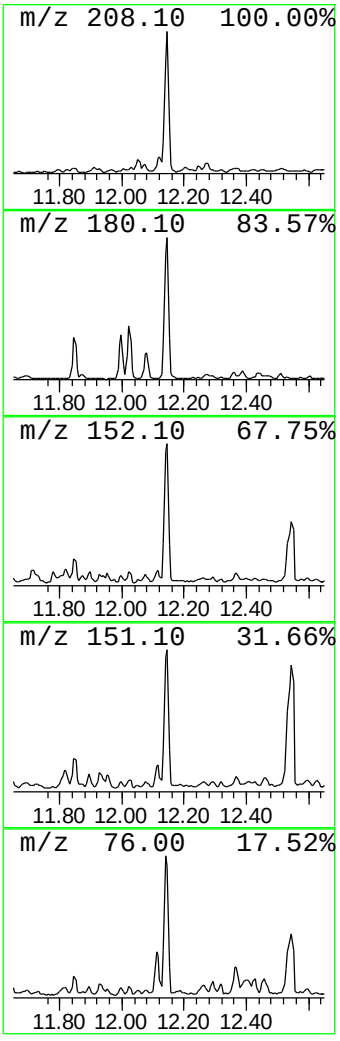
Peak Number 11 9,10-Anthracenedione Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	7.34 ng	466381	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
4	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	47
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	47





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Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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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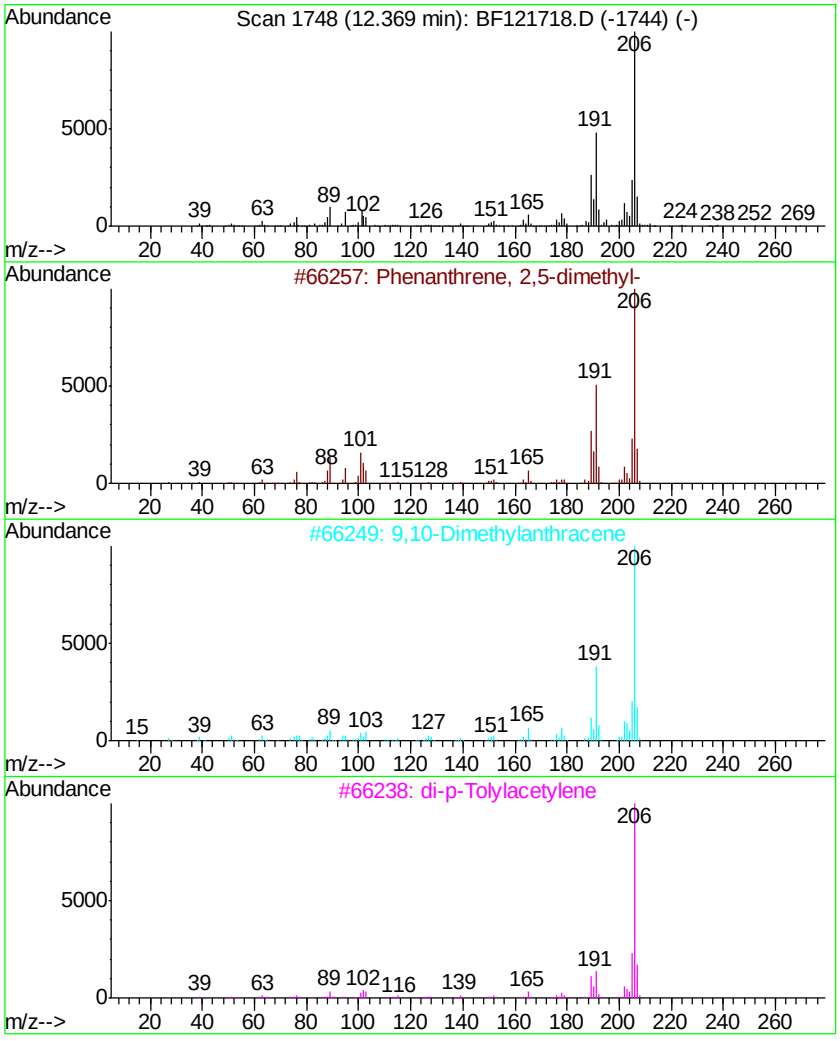
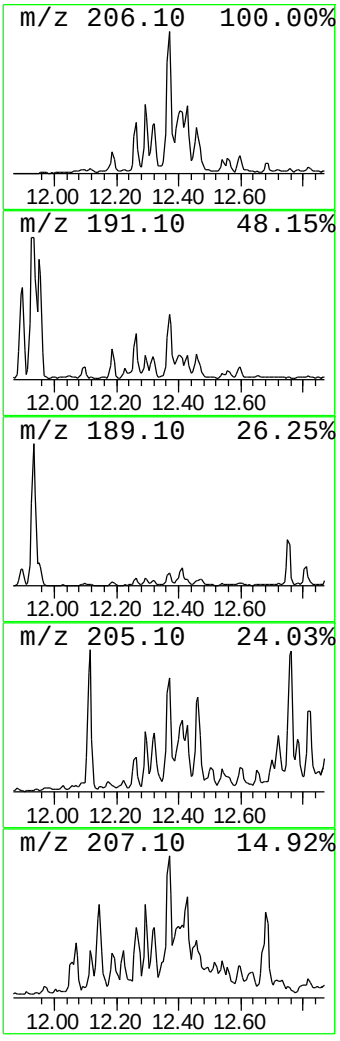
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	9.54 ng	606636	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	94
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91





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Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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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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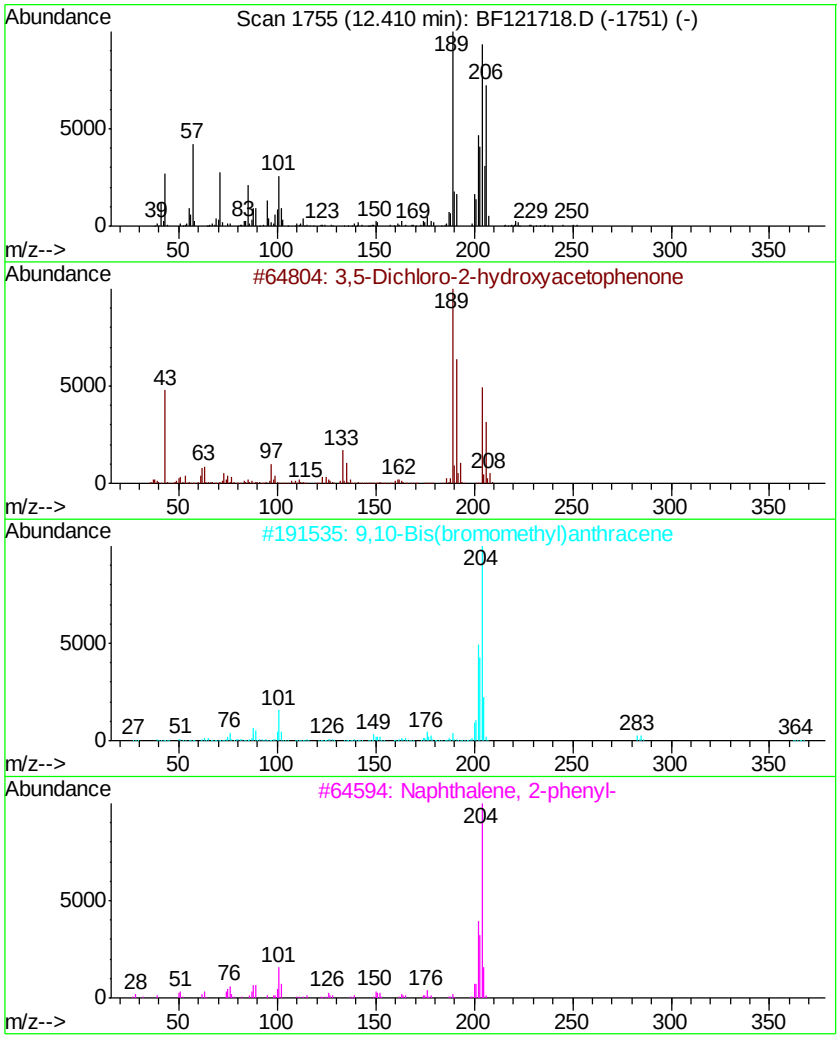
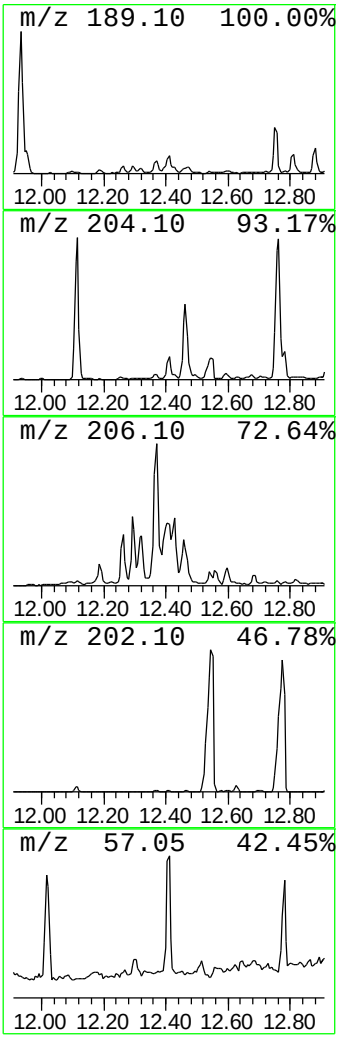
Peak Number 13 unknown12.41 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.41	7.54 ng	479265	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,5-Dichloro-2-hydroxyacetophenone	204	C8H6Cl2O2	003321-92-4	43
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	43
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	42
4	2-Bromo-4-fluoroanisole	204	C7H6BrFO	000452-08-4	38
5	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	35





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ClientSampleId : B-5(5-7)

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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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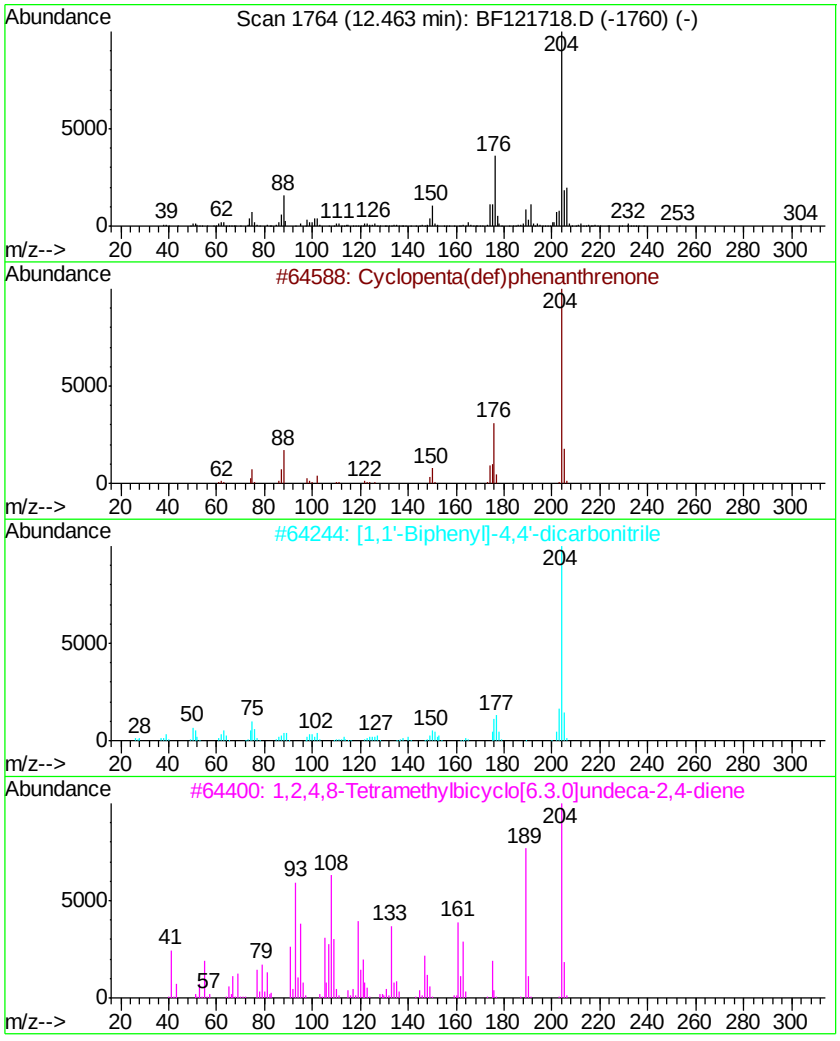
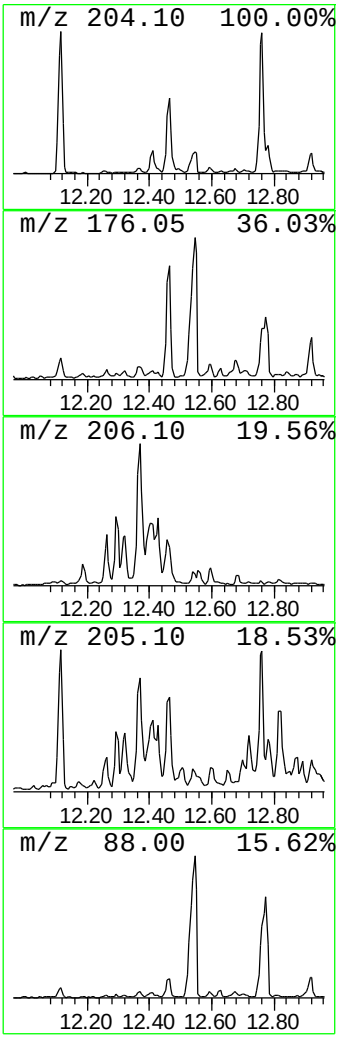
Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	9.02 ng	573599	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	43
5	Carbazole, 9-(2-propynyl)-	205	C15H11N	004282-77-3	43





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Misc :
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ClientSampleId : B-5(5-7)

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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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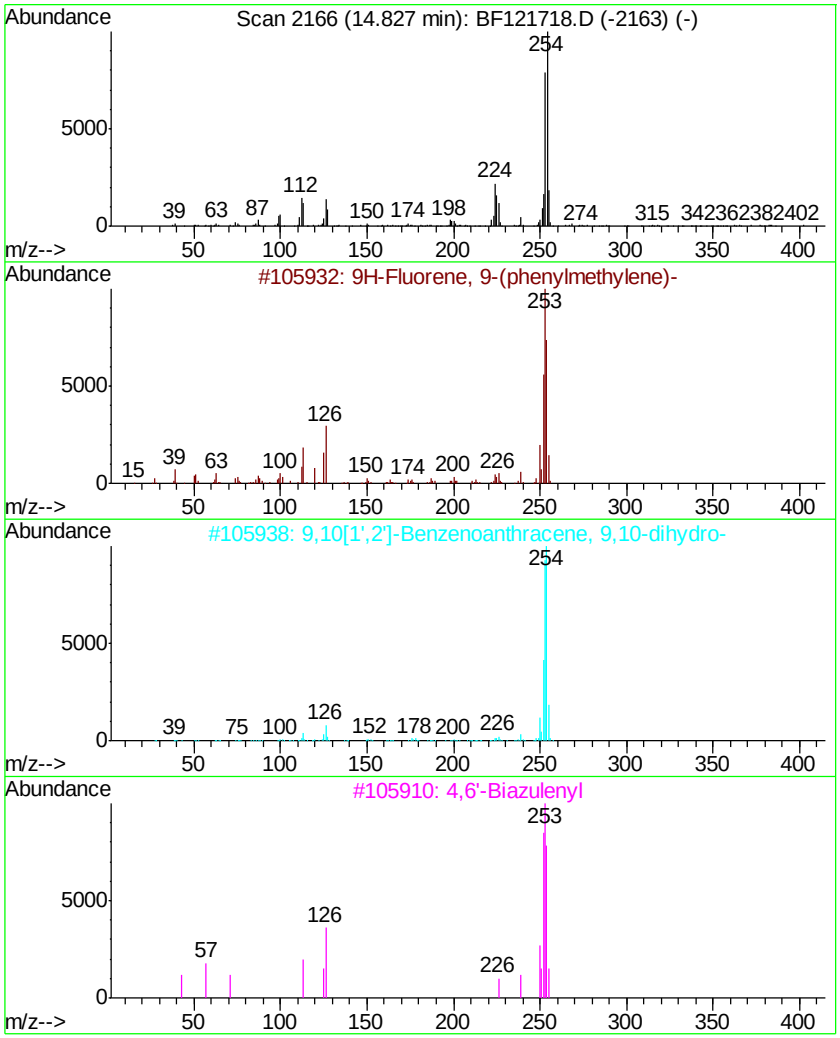
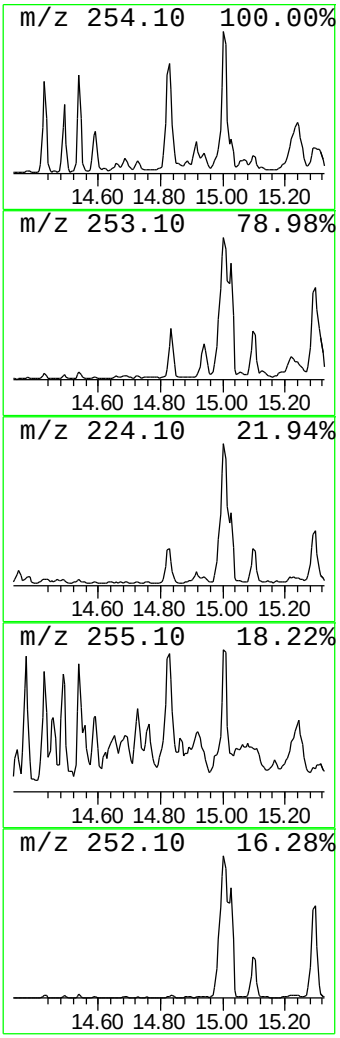
Peak Number 15 9H-Fluorene, 9-(phenylmethy... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	7.81 ng	406313	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	72
2	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	72
3	4,6'-Biazulenyl	254	C20H14	094154-49-1	64
4	3H-Pyrrolo[3,2-f]quinoline, 5-me...	254	C16H18N2O	1000350-44-1	64
5	1,2-Dihydrobenzo[b]fluoranthene	254	C20H14	100516-13-0	59





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Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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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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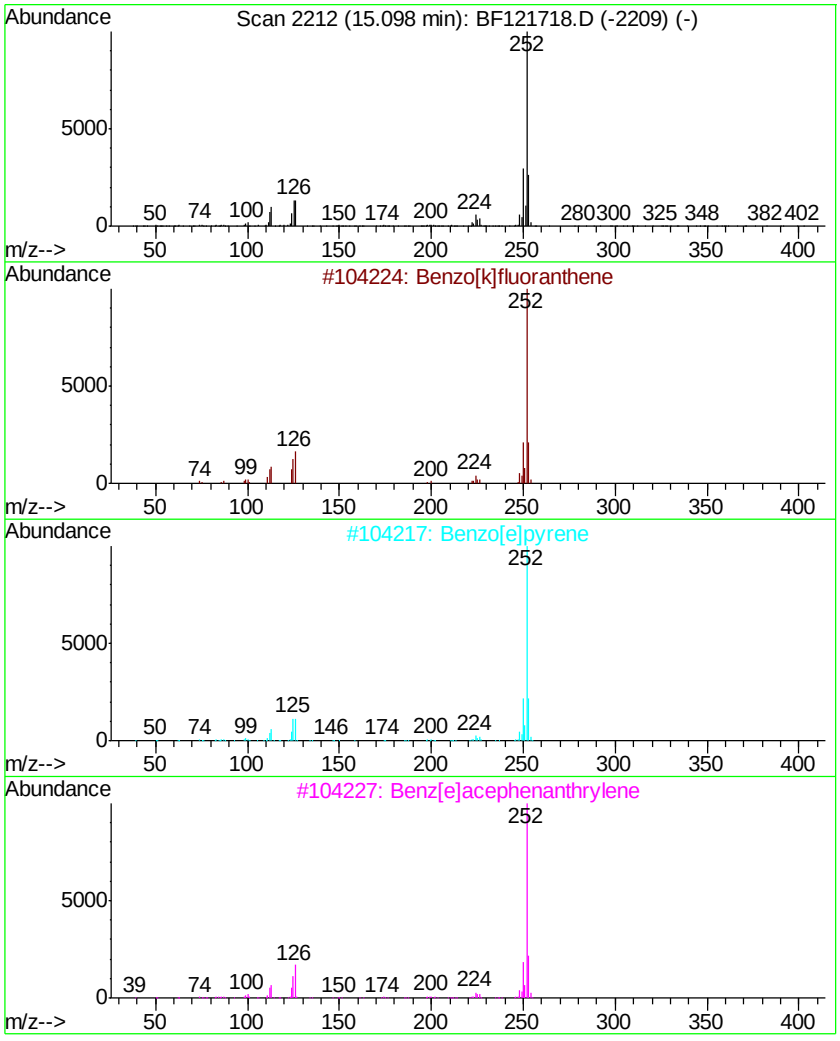
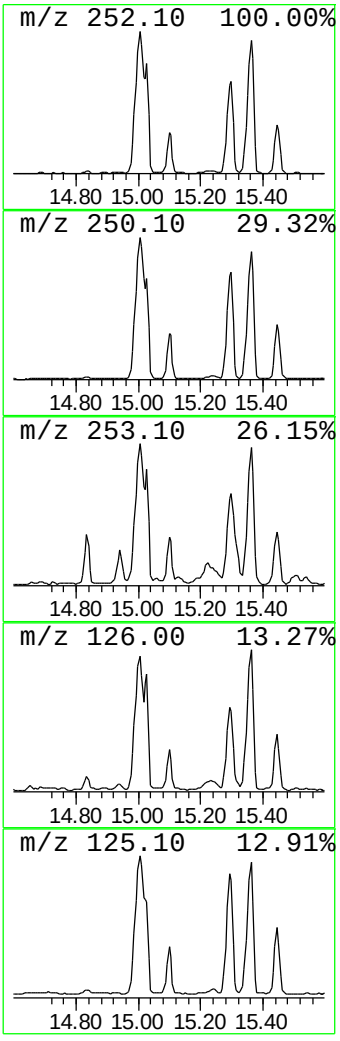
Peak Number 16 Benzo[j]fluoranthene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.10	15.29 ng	795412	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
2	Benzo[e]pyrene	252	C20H12	000192-97-2	98
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	91
5	Perylene	252	C20H12	000198-55-0	89





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
Data File : BF121718.D
Acq On : 28 Sep 2020 18:13
Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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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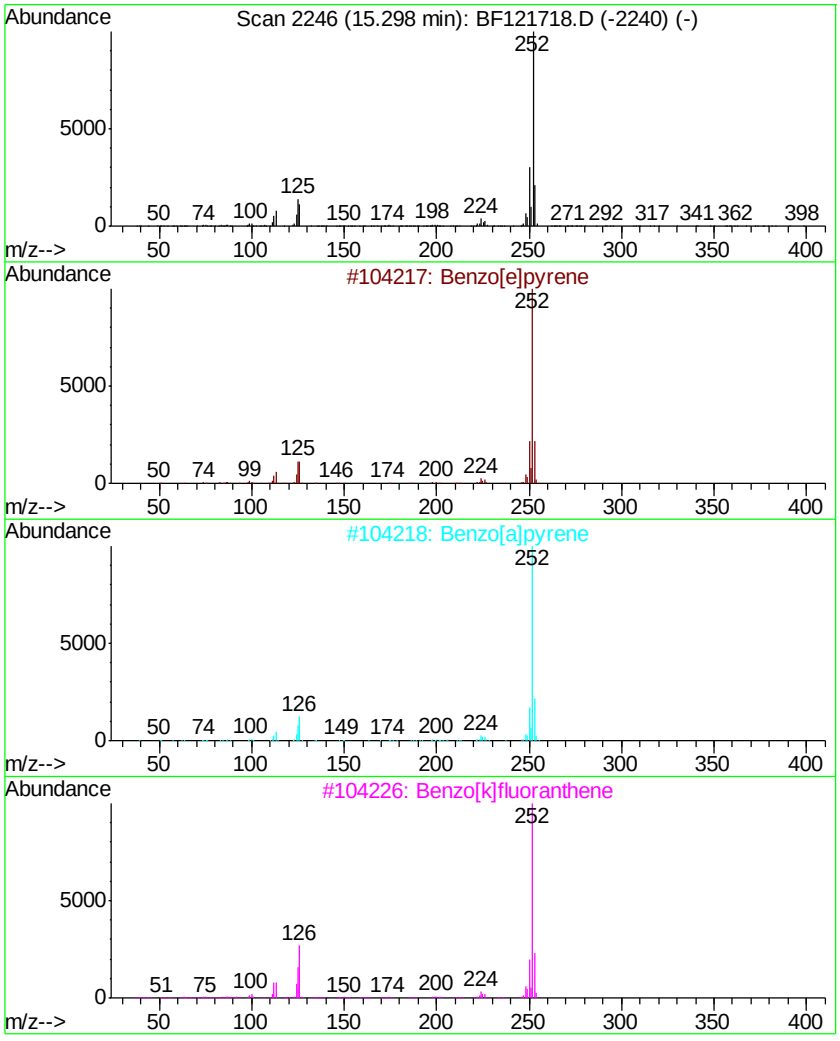
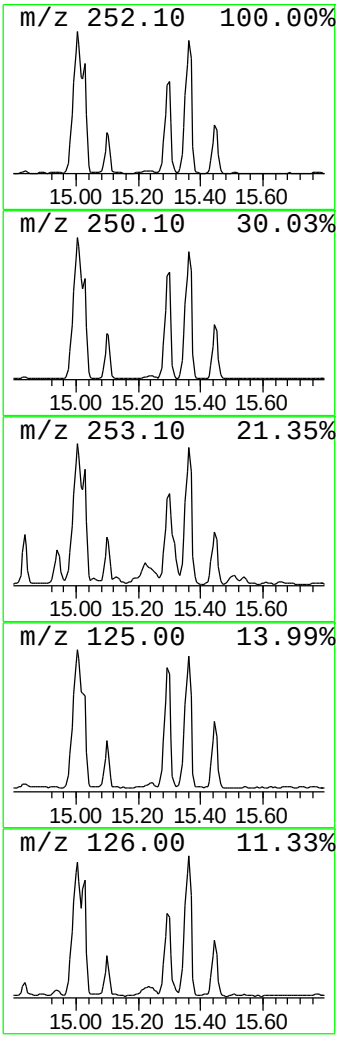
Peak Number 17 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.30	51.08 ng	2656690	Perylene-d12	15.42

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	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Perylene	252	C20H12	000198-55-0	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
Data File : BF121718.D
Acq On : 28 Sep 2020 18:13
Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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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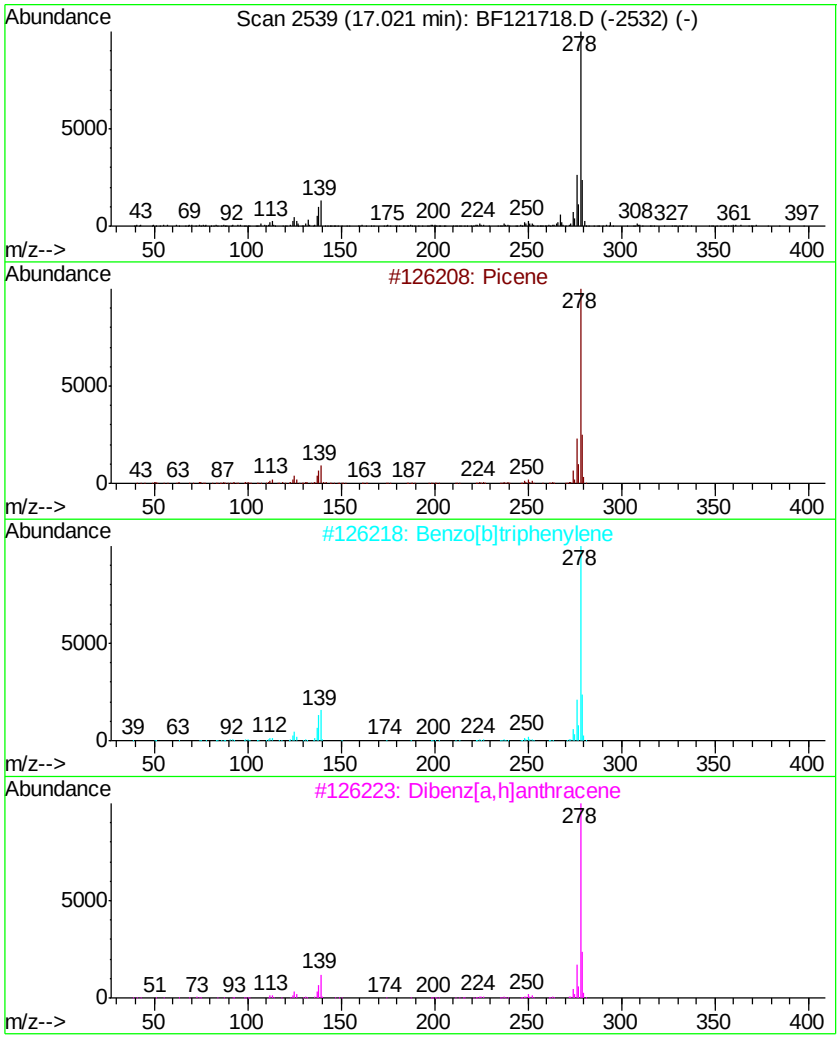
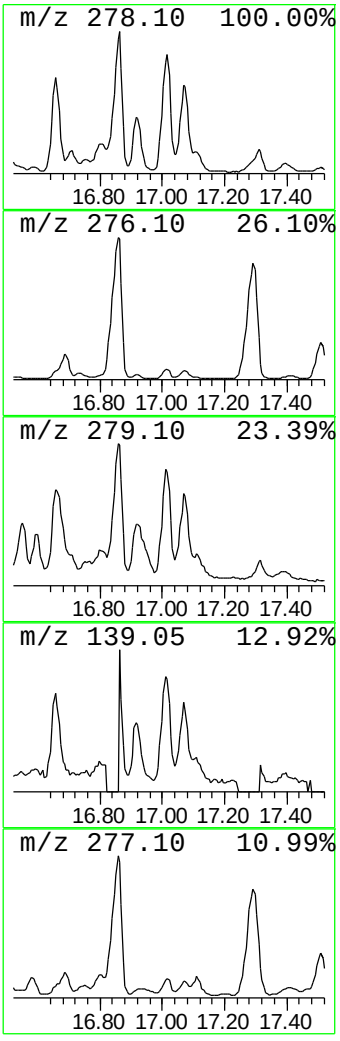
Peak Number 18 Picene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.02	10.62 ng	552179	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	99
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	99
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	98
4	Benzo[b]chrysene	278	C22H14	000214-17-5	96
5	Pentaphene	278	C22H14	000222-93-5	95





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
Data File : BF121718.D
Acq On : 28 Sep 2020 18:13
Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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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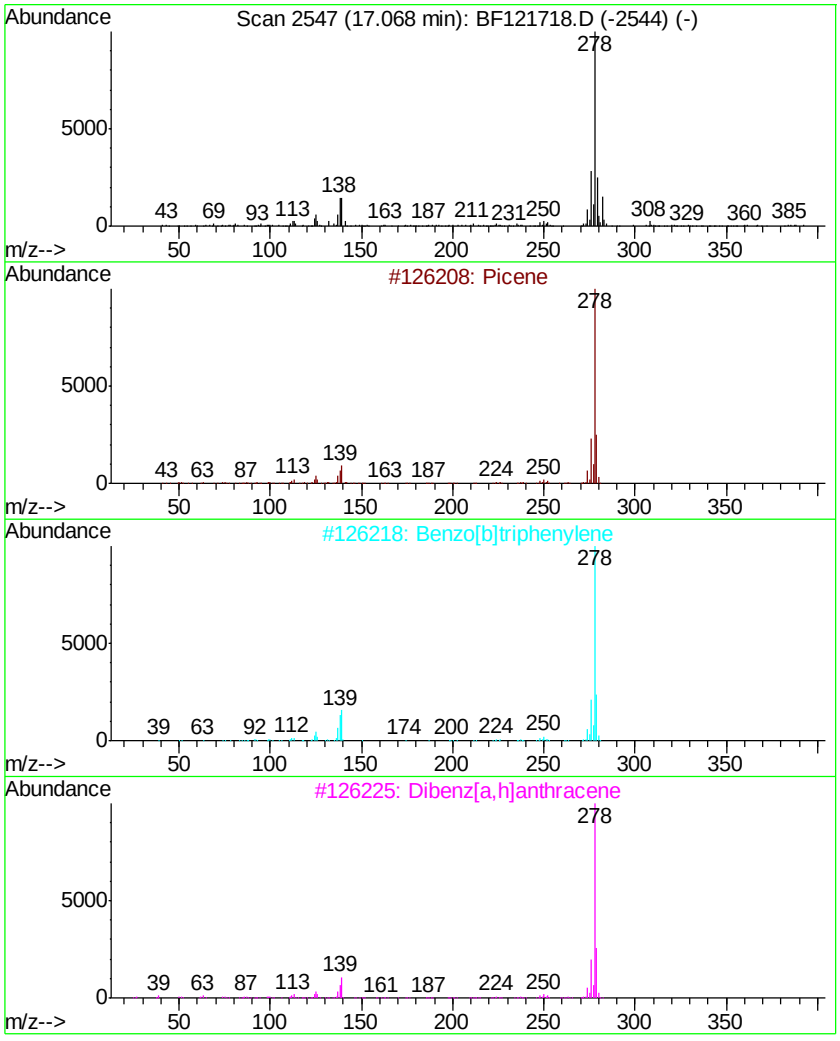
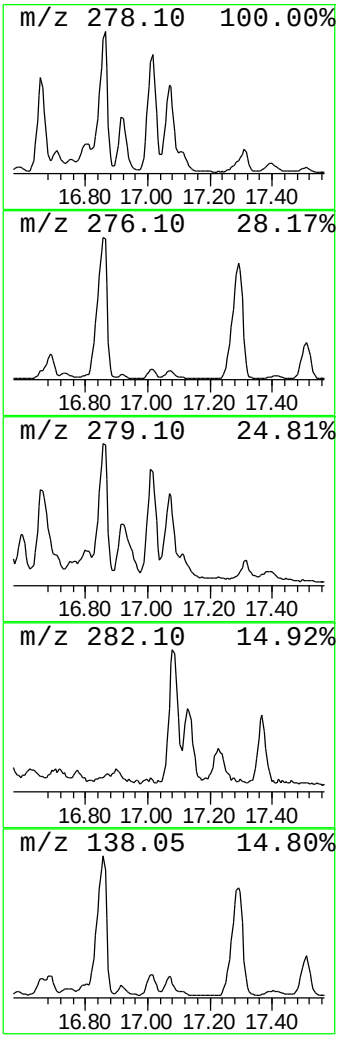
Peak Number 19 Benzo[b]triphenylene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.07	6.20 ng	322252	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	98
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	96
4	Benzo[a]naphthacene	278	C22H14	000226-88-0	93
5	Pentacene	278	C22H14	000135-48-8	92





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
Data File : BF121718.D
Acq On : 28 Sep 2020 18:13
Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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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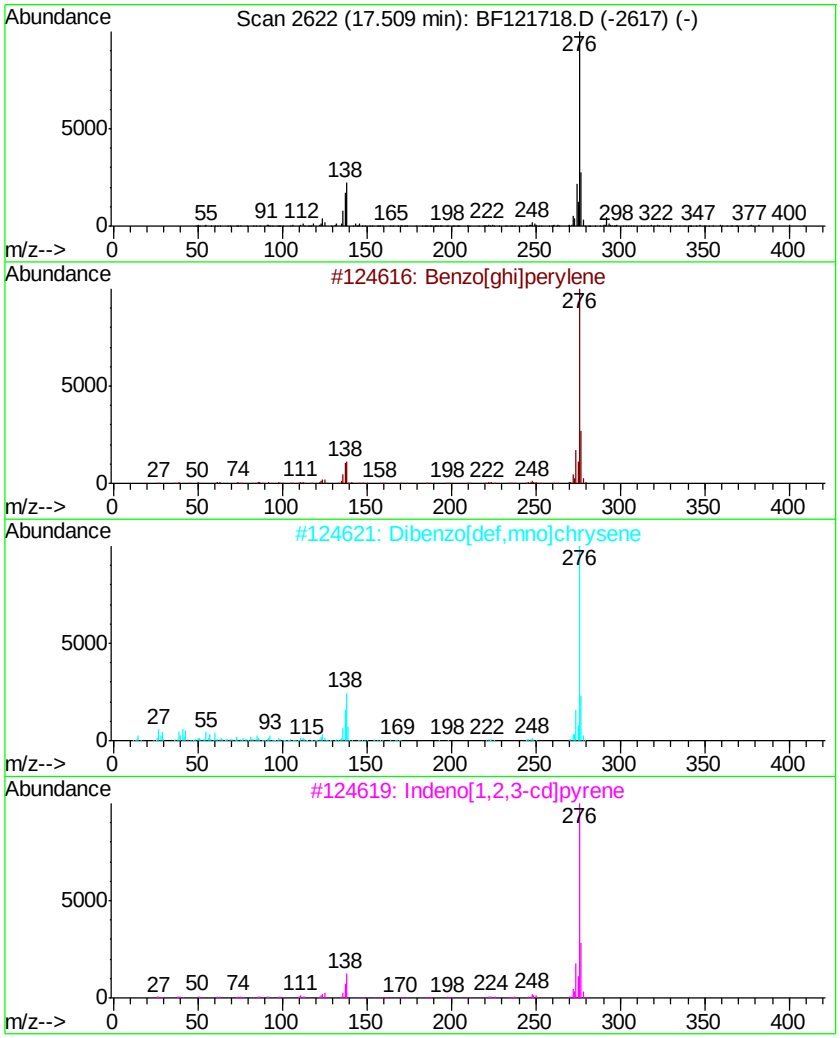
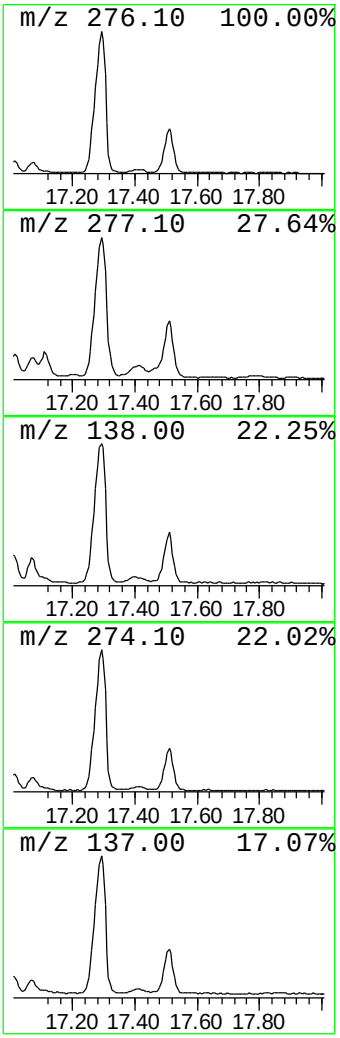
Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.51	14.27 ng	742177	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	96
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	94
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	93
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	72
5	Naphthalen-1-yl-(3-nitro-benzyli...	276	C17H12N2O2	200421-53-0	47





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF092820\
Data File : BF121718.D
Acq On : 28 Sep 2020 18:13
Operator : JU/CG
Sample : L4154-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-5(5-7)

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-Fluorene, 2-me...	10.93	6.0	ng	381860	4	11.32	1271590	20.0
9H-Fluoren-9-one	11.12	7.8	ng	497322	4	11.32	1271590	20.0
8-Dimethylaminona...	11.17	6.2	ng	390904	4	11.32	1271590	20.0
Dibenzothiophene	11.22	8.7	ng	554901	4	11.32	1271590	20.0
Anthracene, 2-met...	11.82	15.2	ng	968896	4	11.32	1271590	20.0
Phenanthrene, 2-m...	11.85	19.0	ng	1208390	4	11.32	1271590	20.0
1H-Cyclopropa[l]p...	11.89	8.8	ng	560246	4	11.32	1271590	20.0
4H-Cyclopenta[def...	11.93	29.1	ng	1851380	4	11.32	1271590	20.0
Phenanthrene, 4-m...	11.95	8.1	ng	515232	4	11.32	1271590	20.0
5,16[1',2']:8,13[...	12.12	10.5	ng	667146	4	11.32	1271590	20.0
9,10-Anthracenedione	12.15	7.3	ng	466381	4	11.32	1271590	20.0
Phenanthrene, 2,5...	12.37	9.5	ng	606636	4	11.32	1271590	20.0
unknown12.41	12.41	7.5	ng	479265	4	11.32	1271590	20.0
Cyclopenta(def)ph...	12.46	9.0	ng	573599	4	11.32	1271590	20.0
9H-Fluorene, 9-(p...	14.83	7.8	ng	406313	6	15.42	1040170	20.0
Benzo[j]fluoranthene	15.10	15.3	ng	795412	6	15.42	1040170	20.0
Benzo[e]pyrene	15.30	51.1	ng	2656690	6	15.42	1040170	20.0
Picene	17.02	10.6	ng	552179	6	15.42	1040170	20.0
Benzo[b]triphenylene	17.07	6.2	ng	322252	6	15.42	1040170	20.0
Dibenzo[def,mno]c...	17.51	14.3	ng	742177	6	15.42	1040170	20.0