LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
Data File : BF100940.D
Acq On : 28 Nov 2017 18:06
Operator : SJ/JU
Sample : I6610-20
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-12(10-12)-20171127

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:\HPCHEM1\BNA_F\METHODS\8270-BF110817.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	5.087	507	510	521	rVB	68488	94054	2.31%	0.173%
2	5.481	572	577	580	rBV	1395709	1318027	32.37%	2.424%
3	6.493	744	749	758	rBV	1335263	1319144	32.39%	2.426%
4	6.628	768	772	776	rBV	1395994	1371417	33.68%	2.522%
5	6.857	808	811	815	rBV	462271	359409	8.83%	0.661%
6	7.016	834	838	841	rBV	1356746	1103269	27.09%	2.029%
7	7.422	903	907	910	rBV	883347	798082	19.60%	1.468%
8	8.139	1025	1029	1031	rBV	528067	434895	10.68%	0.800%
9	8.163	1031	1033	1036	rVB	284527	214472	5.27%	0.394%
10	8.851	1147	1150	1153	rBV	211358	156966	3.85%	0.289%
11	8.951	1163	1167	1170	rBV	235639	181437	4.46%	0.334%
12	9.216	1207	1212	1215	rBV	1755949	1469759	36.09%	2.703%
13	9.481	1251	1257	1260	rBV	103413	138553	3.40%	0.255%
14	9.551	1265	1269	1271	rBV	212590	199981	4.91%	0.368%
15	9.581	1271	1274	1276	rVV	100352	89926	2.21%	0.165%
16	9.604	1276	1278	1285	rVB	128592	114761	2.82%	0.211%
17	9.669	1285	1289	1294	rBV2	115634	139890	3.44%	0.257%
18	9.757	1301	1304	1307	rBV2	262273	234184	5.75%	0.431%
19	9.892	1325	1327	1330	rVV	446410	390760	9.60%	0.719%
20	9.928	1330	1333	1336	rVB	478147	366880	9.01%	0.675%
21	10.098	1357	1362	1365	rVV2	289377	281615	6.92%	0.518%
22	10.439	1417	1420	1426	rVB	416602	397033	9.75%	0.730%
23	10.598	1444	1447	1451	rVB	156247	139881	3.44%	0.257%
24	10.681	1458	1461	1465	rVB	769781	757235	18.60%	1.393%
25	10.804	1476	1482	1488	rVB4	100093	154554	3.80%	0.284%
26	10.992	1509	1514	1516	rBV3	103929	119130	2.93%	0.219%
27	11.116	1530	1535	1537	rBV3	97060	114318	2.81%	0.210%
28	11.139	1537	1539	1544	rVV3	99606	101485	2.49%	0.187%
29	11.186	1544	1547	1551	rVV	185518	159431	3.92%	0.293%
30	11.233	1551	1555	1558	rVV2	107395	149954	3.68%	0.276%
31	11.280	1559	1563	1568	rVB	256682	256634	6.30%	0.472%
32	11.386	1577	1581	1582	rBV	334003	331686	8.15%	0.610%
33	11.416	1582	1586	1589	rVV	2468793	2801847	68.80%	5.153%
34	11.463	1589	1594	1596	rVV	874227	718298	17.64%	1.321%

LSC Area Percent Report

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Acq On : 28 Nov 2017 18:06
Operator : SJ/JU
Sample : I6610-20
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-12(10-12)-20171127

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:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.616	1614	1620	1625	rBV2	279317	376356	9.24%	0.692%
36	11.675	1628	1630	1634	rVV2	94856	91411	2.24%	0.168%
37	11.716	1634	1637	1641	rVB3	124746	144917	3.56%	0.267%
38	11.886	1662	1666	1668	rVV	520565	507887	12.47%	0.934%
39	11.916	1668	1671	1674	rVV	763297	750814	18.44%	1.381%
40	11.963	1675	1679	1682	rVV	239901	213346	5.24%	0.392%
41	11.998	1682	1685	1687	rVV2	711330	765529	18.80%	1.408%
42	12.022	1687	1689	1692	rVB	411526	309301	7.60%	0.569%
43	12.180	1713	1716	1718	rBV	342752	287432	7.06%	0.529%
44	12.210	1718	1721	1726	rVB	350039	309363	7.60%	0.569%
45	12.327	1736	1741	1744	rBV2	137789	167716	4.12%	0.308%
46	12.380	1748	1750	1753	rVB	106191	90996	2.23%	0.167%
47	12.433	1755	1759	1762	rBV	279948	330980	8.13%	0.609%
48	12.475	1762	1766	1768	rVV3	141927	210377	5.17%	0.387%
49	12.527	1772	1775	1780	rVB3	238058	284604	6.99%	0.523%
50	12.616	1784	1790	1792	rBV	3010116	3686924	90.54%	6.781%
51	12.692	1801	1803	1807	rVB2	234447	191734	4.71%	0.353%
52	12.751	1808	1813	1817	rBV3	200150	241539	5.93%	0.444%
53	12.845	1822	1829	1832	rBV2	2773013	4072189	100.00%	7.489%
54	12.880	1832	1835	1838	rVB2	203124	208888	5.13%	0.384%
55	12.945	1843	1846	1847	rBV	249512	215846	5.30%	0.397%
56	12.969	1847	1850	1852	rVV	1201822	1029230	25.27%	1.893%
57	12.992	1852	1854	1857	rVB	267722	236428	5.81%	0.435%
58	13.045	1858	1863	1867	rBV2	304615	517086	12.70%	0.951%
59	13.133	1875	1878	1880	rBV5	252196	342450	8.41%	0.630%
60	13.157	1880	1882	1885	rVB	607621	529949	13.01%	0.975%
61	13.192	1885	1888	1890	rBV2	76088	95247	2.34%	0.175%
62	13.222	1890	1893	1896	rBV	370931	338088	8.30%	0.622%
63	13.263	1896	1900	1903	rVV2	415756	503577	12.37%	0.926%
64	13.357	1913	1916	1918	rVB	228139	181636	4.46%	0.334%
65	13.386	1918	1921	1924	rBV2	268870	239185	5.87%	0.440%
66	13.580	1952	1954	1957	rVV	140177	138615	3.40%	0.255%
67	13.669	1966	1969	1973	rVB	423077	395123	9.70%	0.727%
68	13.774	1983	1987	1990	rBV	441026	522860	12.84%	0.962%
69	13.804	1990	1992	1994	rVV	432008	385934	9.48%	0.710%
70	13.833	1994	1997	2002	rVV3	333310	640067	15.72%	1.177%
71	13.880	2002	2005	2008	rVB	415160	398866	9.79%	0.734%

LSC Area Percent Report

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Sample : I6610-20
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-12(10-12)-20171127

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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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.027	2023	2030	2033	rBV2	1881017	3024943	74.28%	5.563%
73	14.069	2033	2037	2042	rVB	1956867	2138793	52.52%	3.934%
74	14.139	2046	2049	2053	rVV	418043	385719	9.47%	0.709%
75	14.174	2053	2055	2058	rVV2	154685	190712	4.68%	0.351%
76	14.221	2061	2063	2065	rVV	179322	143844	3.53%	0.265%
77	14.257	2065	2069	2072	rVV2	238673	309564	7.60%	0.569%
78	14.286	2072	2074	2077	rVB	103930	90258	2.22%	0.166%
79	14.380	2087	2090	2092	rBV	197595	214437	5.27%	0.394%
80	14.416	2092	2096	2099	rVV	453228	458855	11.27%	0.844%
81	14.451	2099	2102	2105	rVB	217171	208852	5.13%	0.384%
82	14.539	2115	2117	2119	rBV	210404	192876	4.74%	0.355%
83	14.563	2119	2121	2125	rVV2	242224	206152	5.06%	0.379%
84	14.610	2125	2129	2135	rVB3	167567	263737	6.48%	0.485%
85	14.727	2147	2149	2152	rBV2	102641	119650	2.94%	0.220%
86	14.916	2177	2181	2188	rVB2	167658	266848	6.55%	0.491%
87	15.092	2203	2211	2213	rBV	1311062	2411866	59.23%	4.436%
88	15.186	2224	2227	2231	rBV	326233	342594	8.41%	0.630%
89	15.286	2239	2244	2249	rBV5	99358	257422	6.32%	0.473%
90	15.392	2256	2262	2267	rVB	805156	1171117	28.76%	2.154%
91	15.463	2267	2274	2277	rVV	1132294	1539595	37.81%	2.832%
92	15.515	2278	2283	2285	rVV	249054	360847	8.86%	0.664%
93	15.545	2285	2288	2294	rVB2	392743	566321	13.91%	1.042%
94	15.992	2361	2364	2369	rBV	69320	134634	3.31%	0.248%
95	16.074	2375	2378	2382	rBV	90740	102243	2.51%	0.188%
96	17.004	2529	2536	2544	rVB	445262	943406	23.17%	1.735%
97	17.168	2559	2564	2568	rVB	83932	149148	3.66%	0.274%
98	17.227	2570	2574	2579	rVB2	77987	129903	3.19%	0.239%
99	17.457	2605	2613	2624	rVB	344575	803680	19.74%	1.478%
100	17.686	2646	2652	2667	rVB2	110864	312830	7.68%	0.575%

Sum of corrected areas: 54372303

LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
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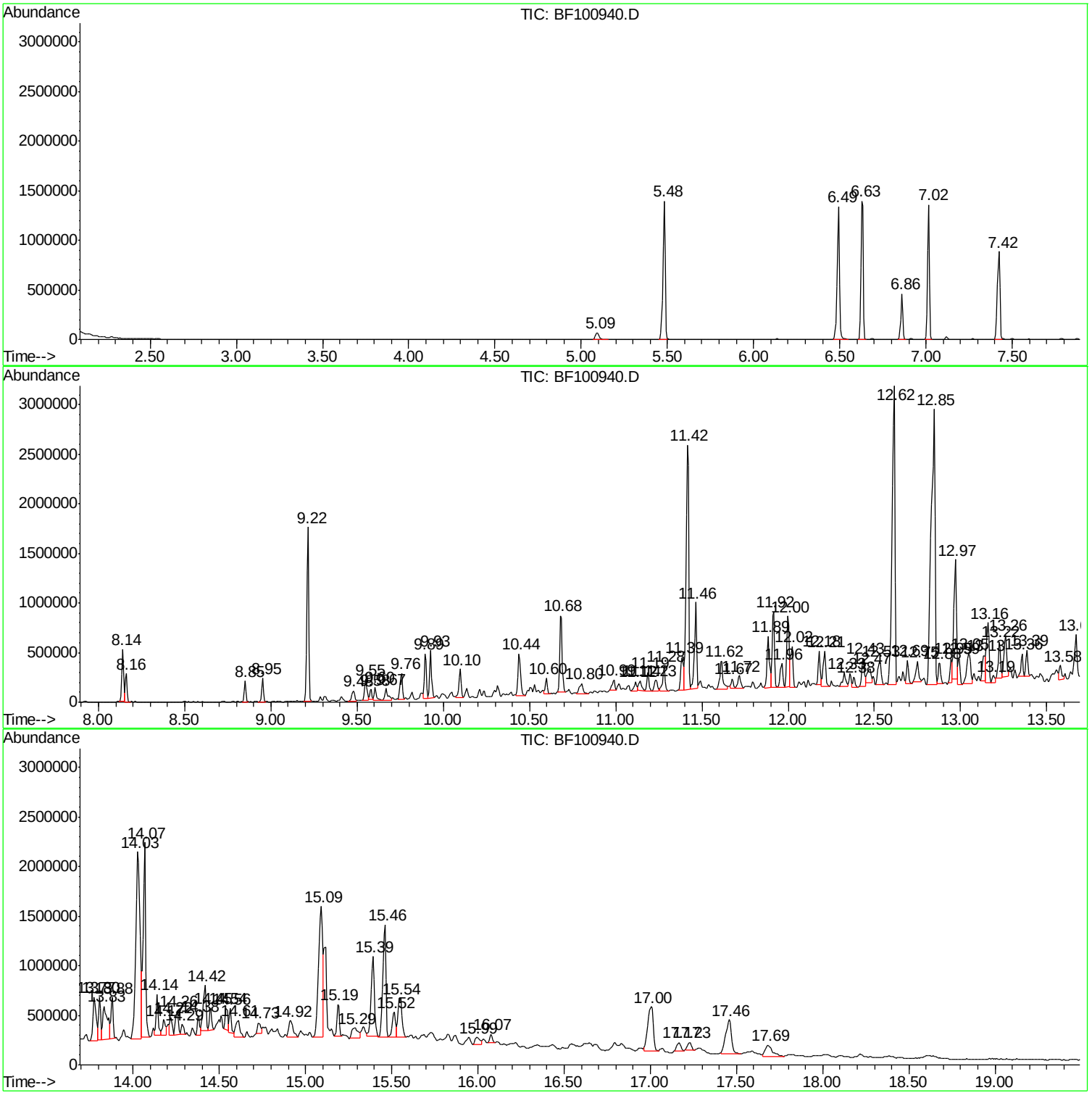
Acq On : 28 Nov 2017 18:06
Operator : SJ/JU
Sample : I6610-20
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-12(10-12)-20171127

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

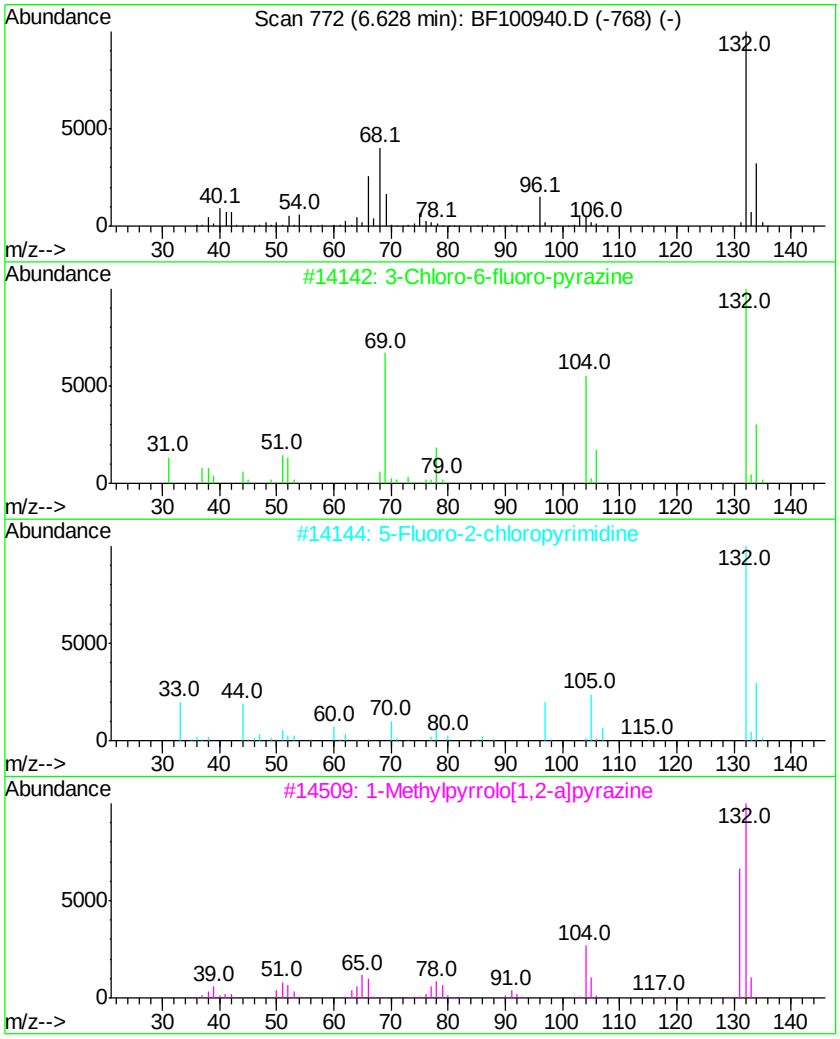
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

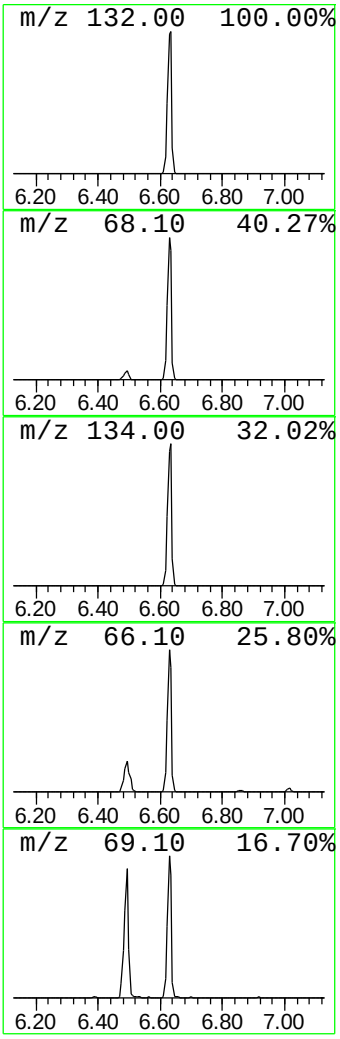
****

Peak Number 1 unknown6.63 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.63	76.32 ng	1371420	1,4-Dichlorobenzene-d4	6.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
3	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9
4	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9
5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
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Instrument : BNA_F
ClientSampleId : SB-12(10-12)-20171127

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

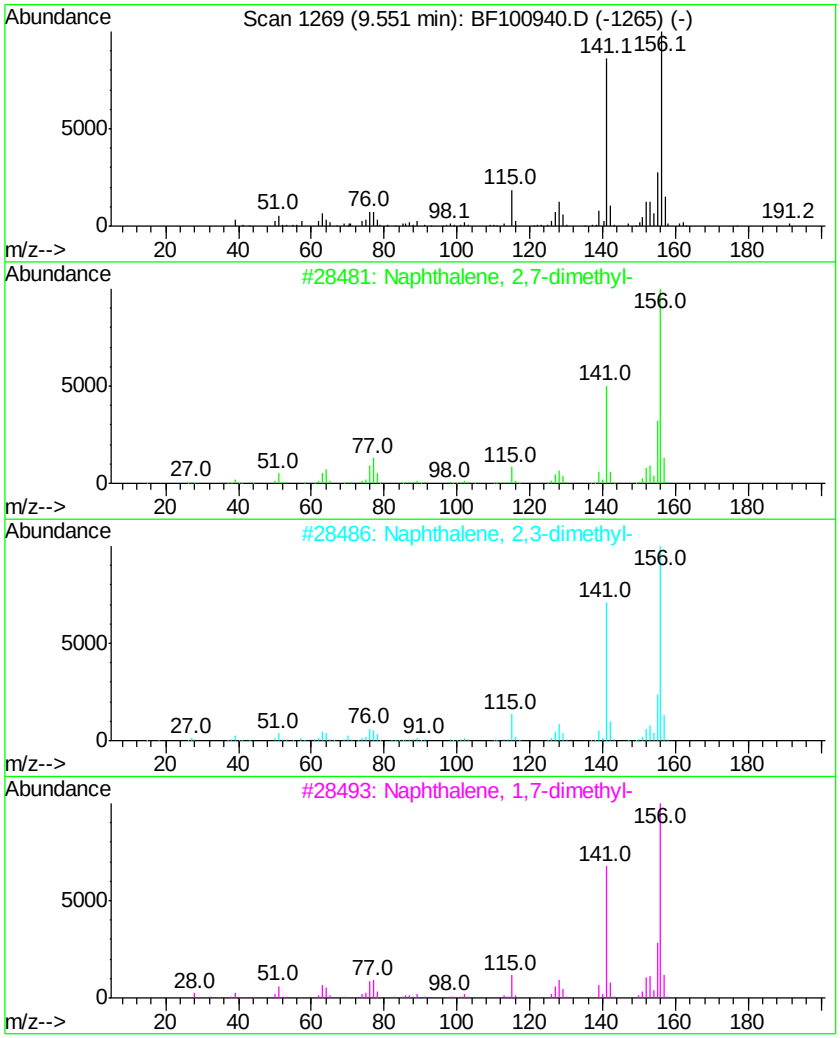
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

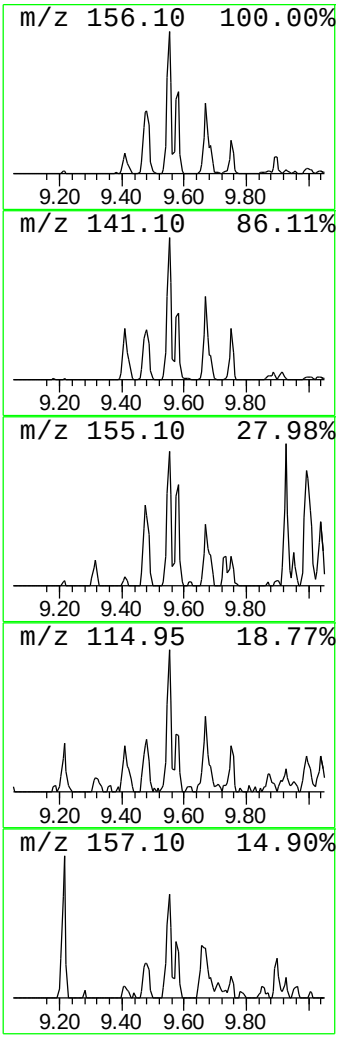
****

Peak Number 3 Naphthalene, 2,7-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.55	10.24 ng	199981	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97





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Instrument : BNA_F
ClientSampleId : SB-12(10-12)-20171127

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.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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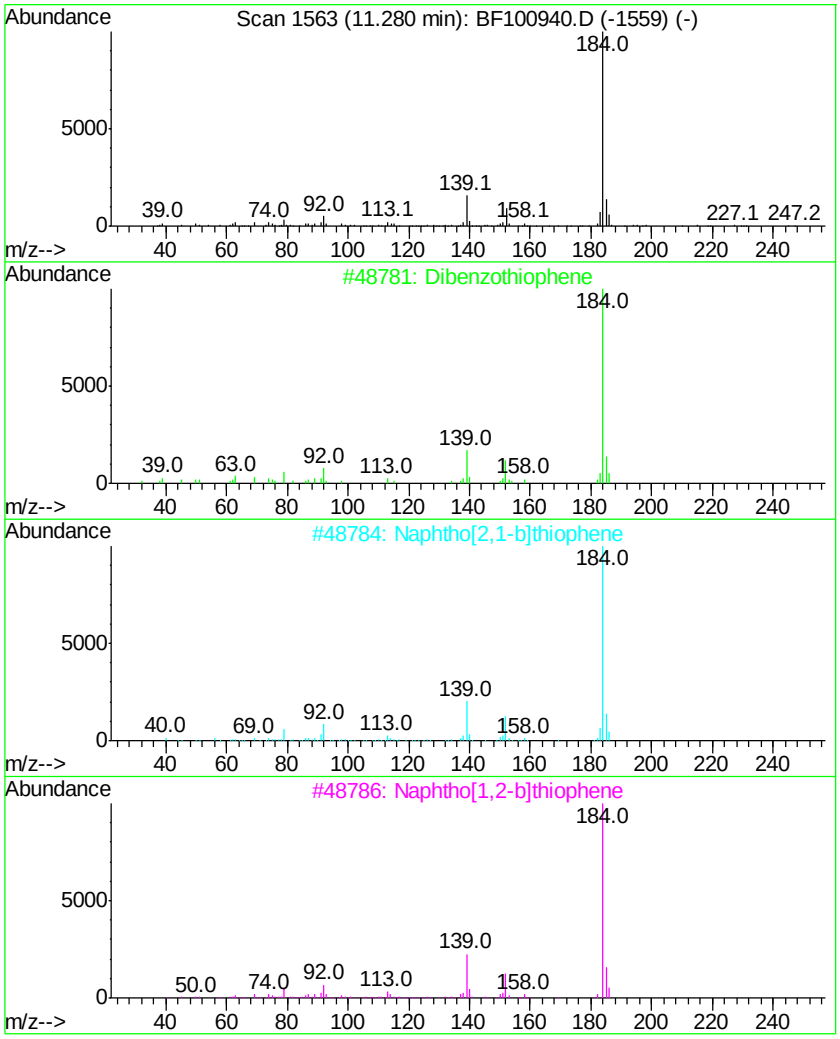
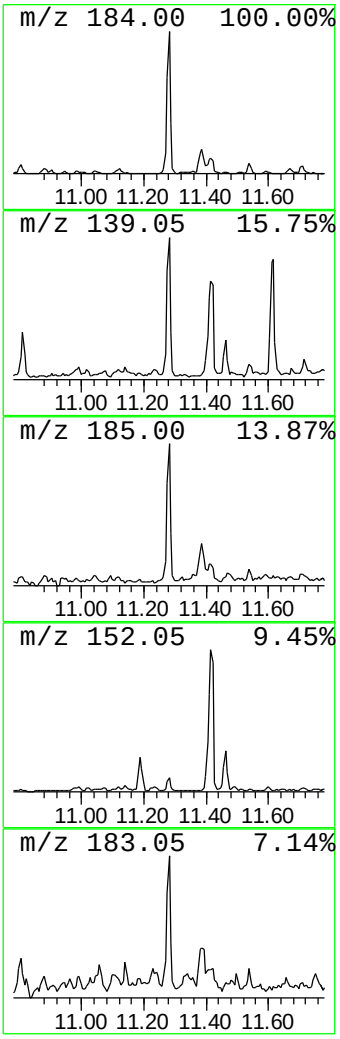
Peak Number 4 Dibenzothiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.28	15.47 ng	256634	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





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Data File : BF100940.D
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Sample : I6610-20
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-12(10-12)-20171127

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.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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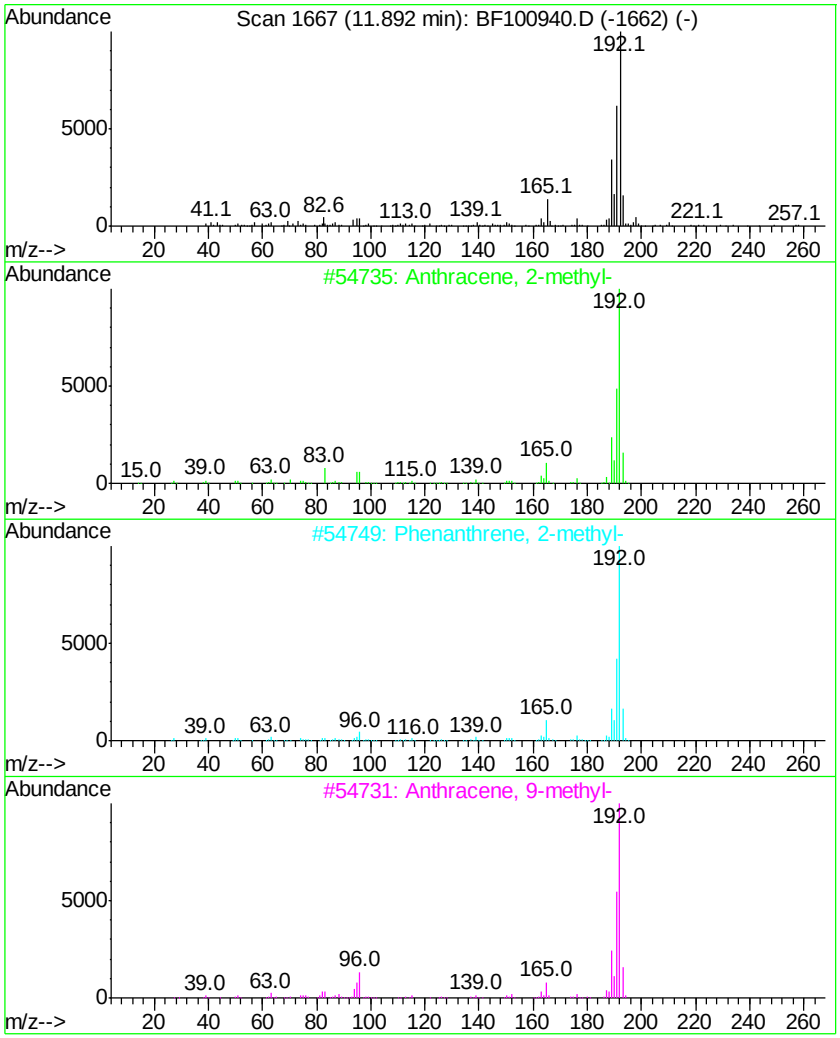
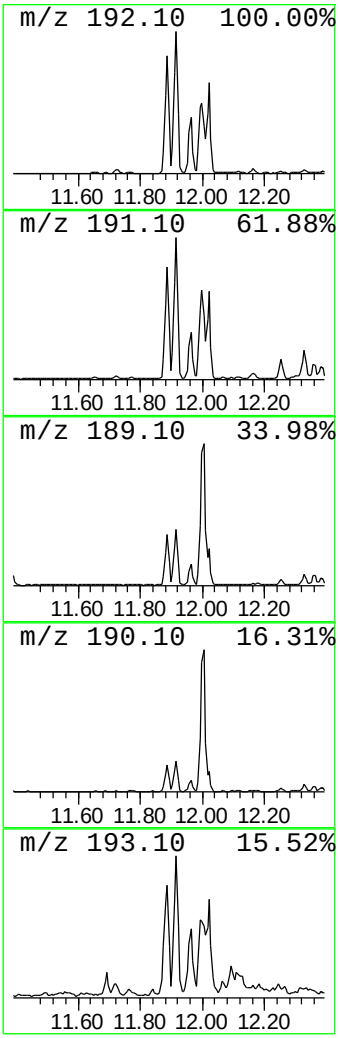
Peak Number 5 Anthracene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	30.62 ng	507887	Phenanthrene-d10	11.39

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	95
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
Data File : BF100940.D
Acq On : 28 Nov 2017 18:06
Operator : SJ/JU
Sample : I6610-20
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-12(10-12)-20171127

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.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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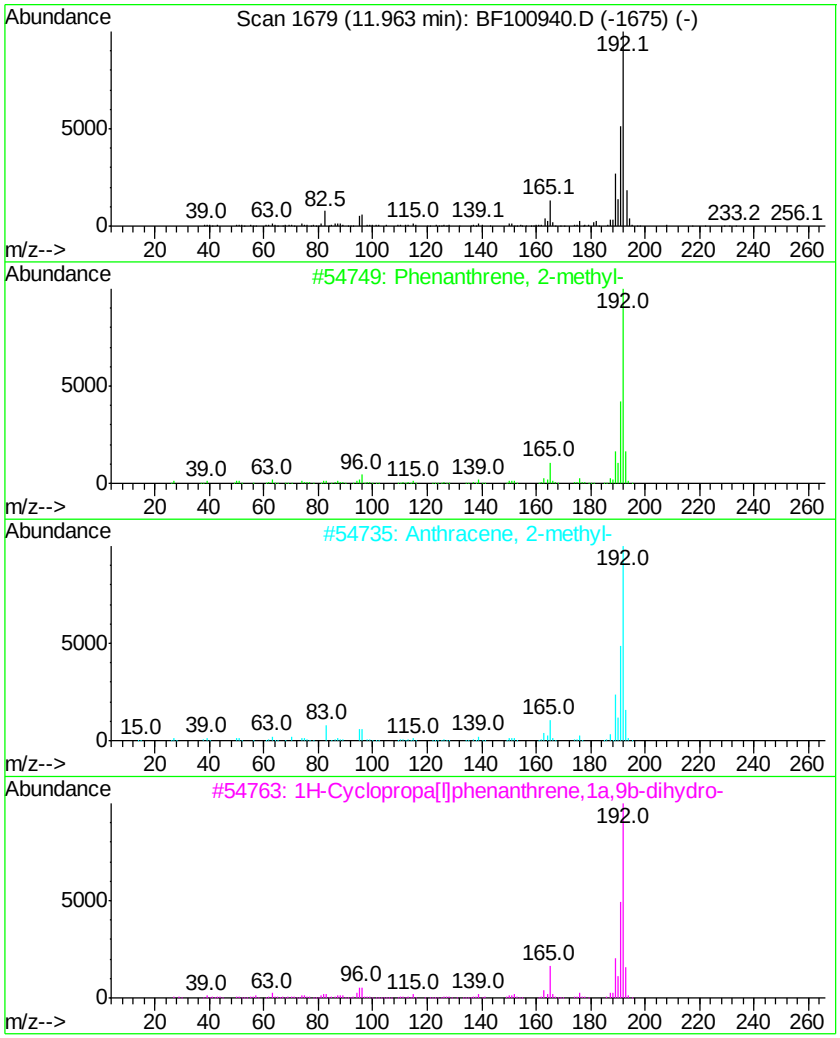
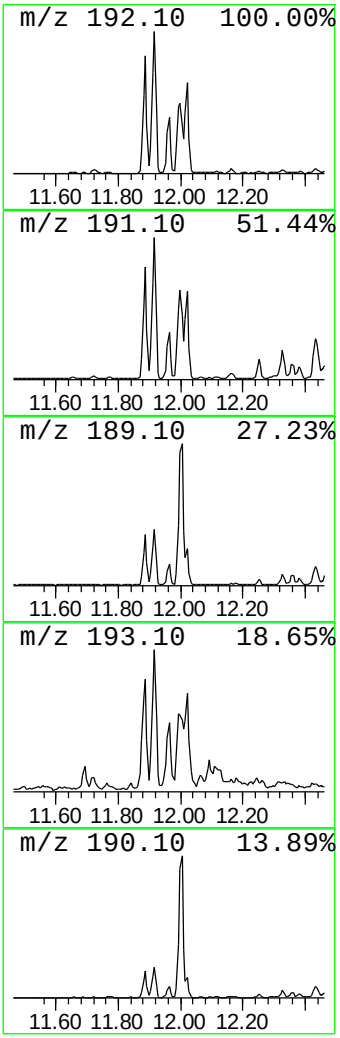
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	12.86 ng	213346	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	94
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94





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Operator : SJ/JU
Sample : I6610-20
Misc :
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ClientSampleId : SB-12(10-12)-20171127

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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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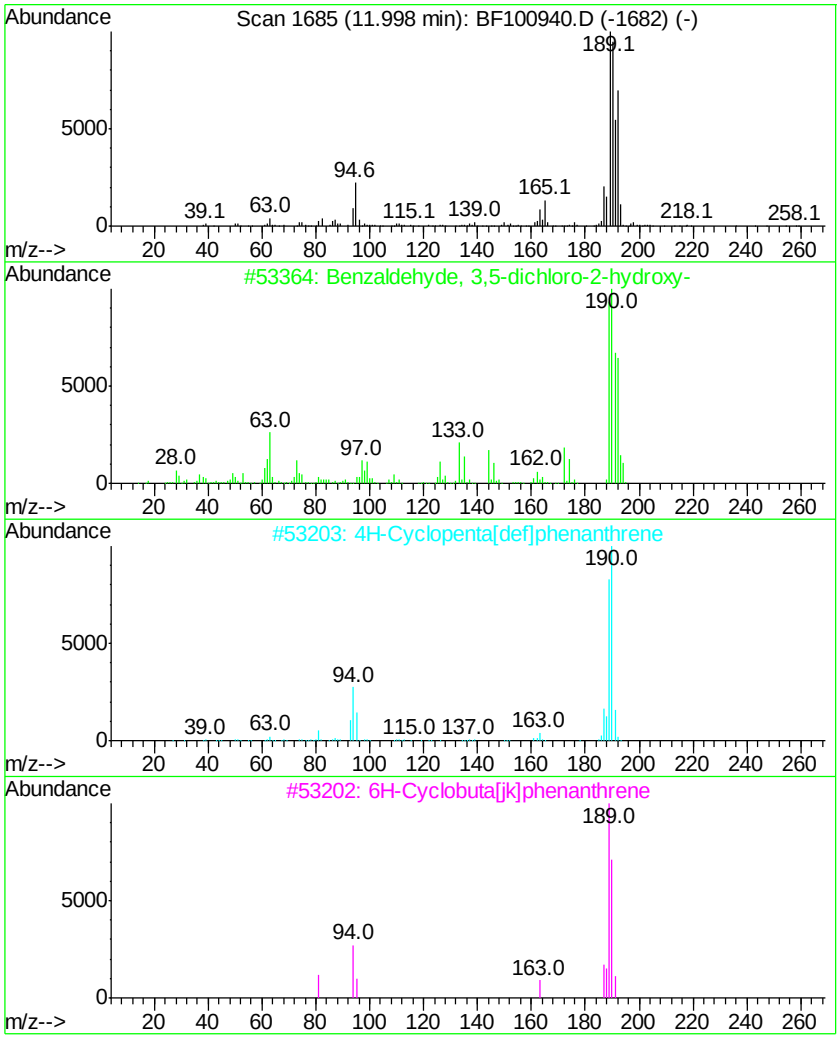
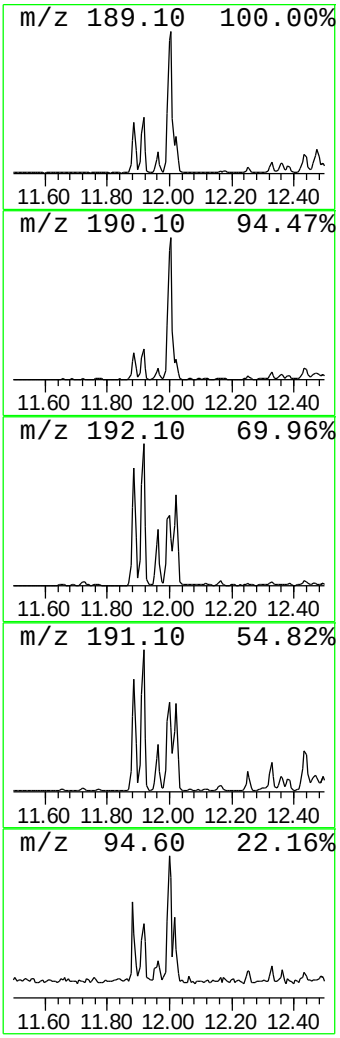
Peak Number 8 Benzaldehyde, 3,5-dichloro-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	46.16 ng	765529	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	72
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	58
4	2,6-Dichlorobenzaldoxime	189	C7H5Cl2NO	025185-95-9	42
5	Methyl diselenide	190	C2H6Se2	007101-31-7	41





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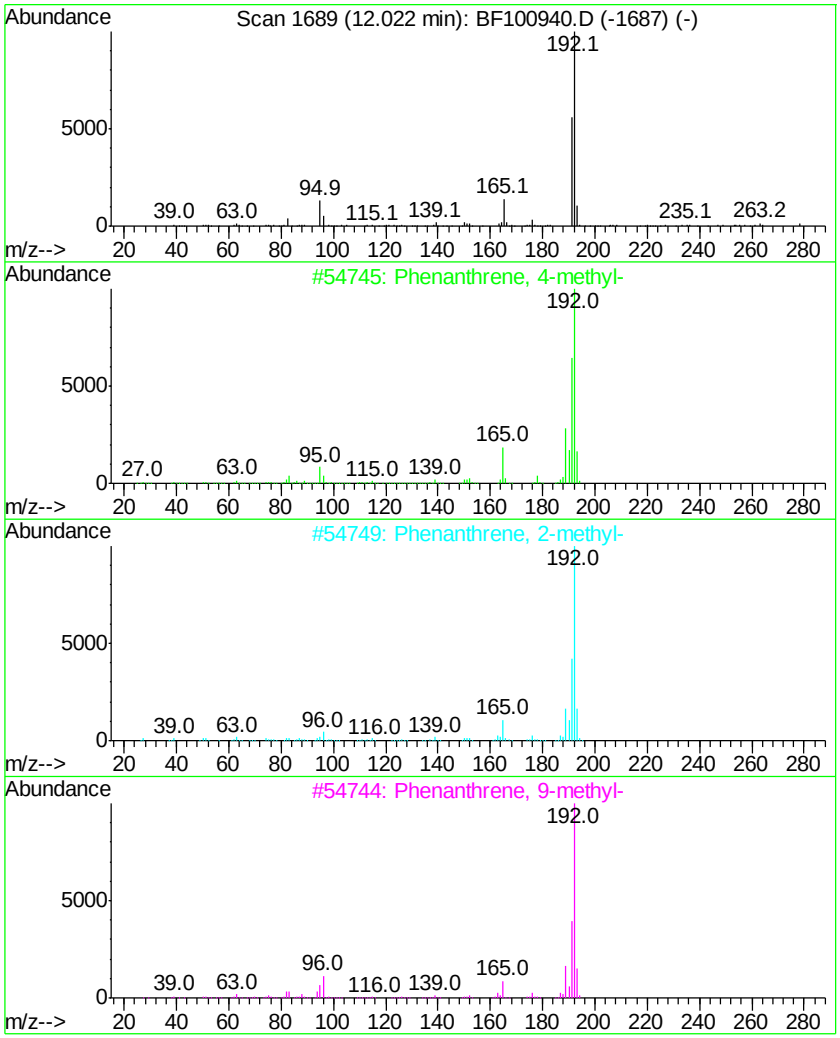
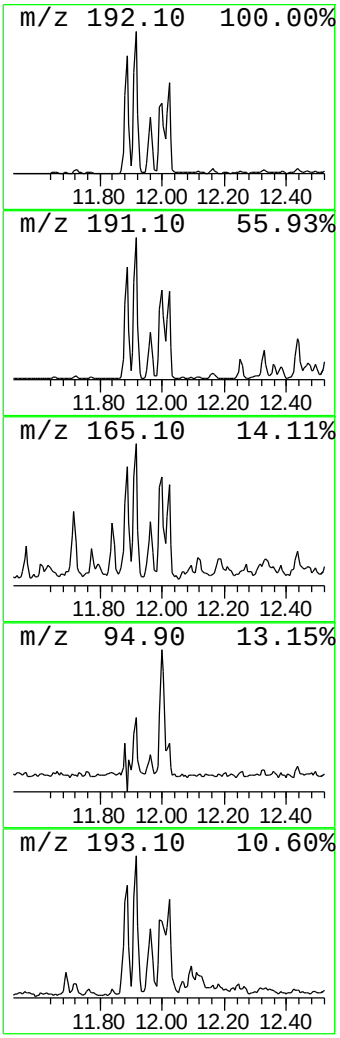
Peak Number 9 Phenanthrene, 4-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	18.65 ng	309301	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	87
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	81
3	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	80
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	80
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	80





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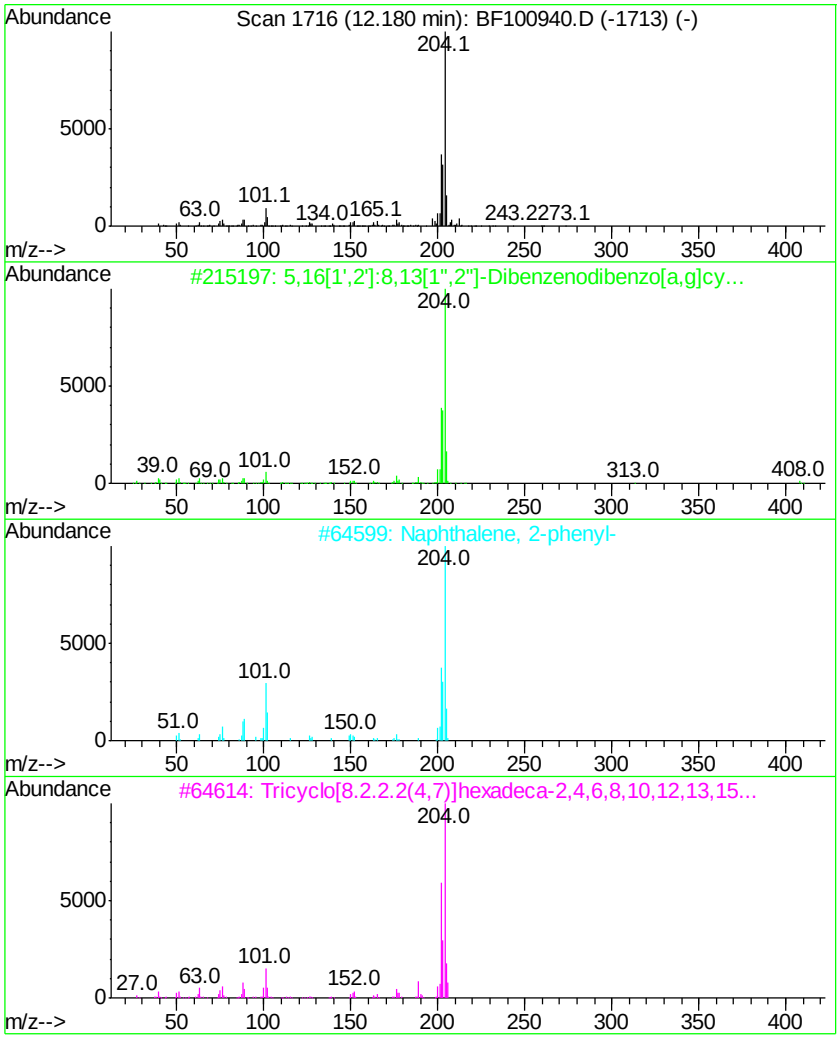
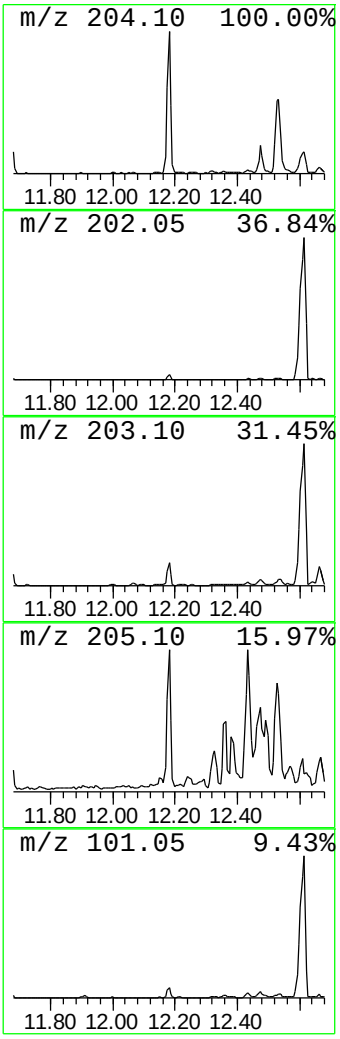
Peak Number 10 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.18	17.33 ng	287432	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	90
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	50





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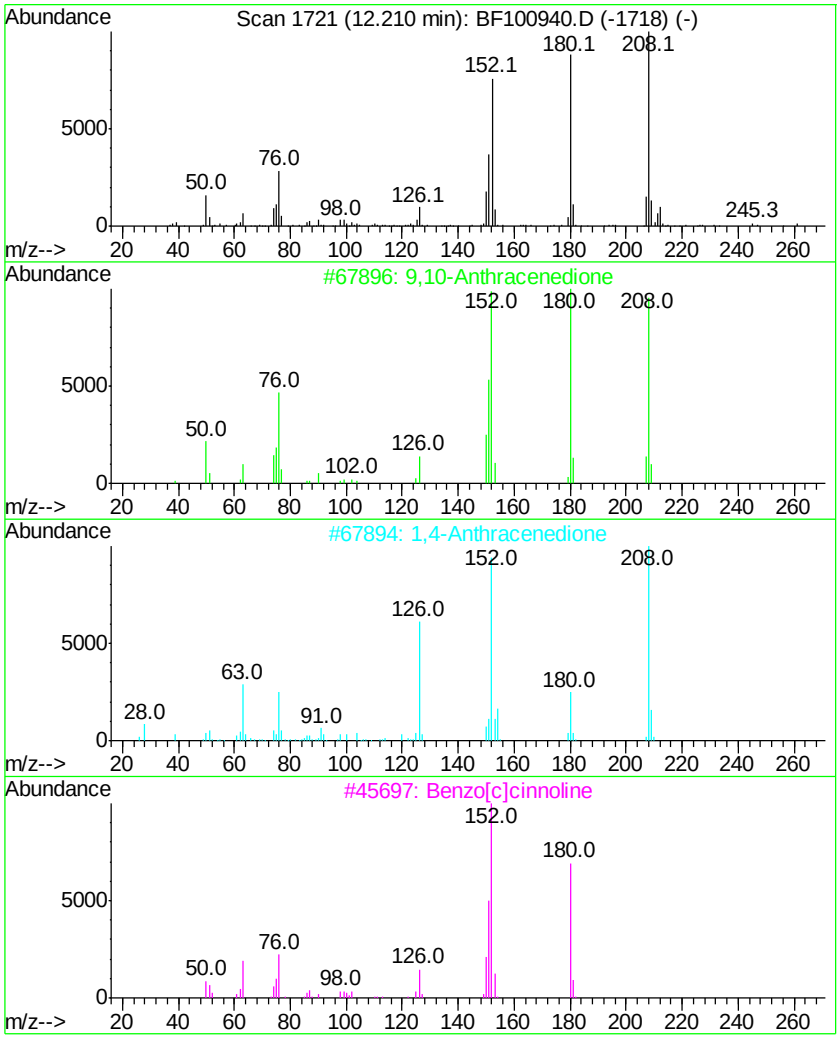
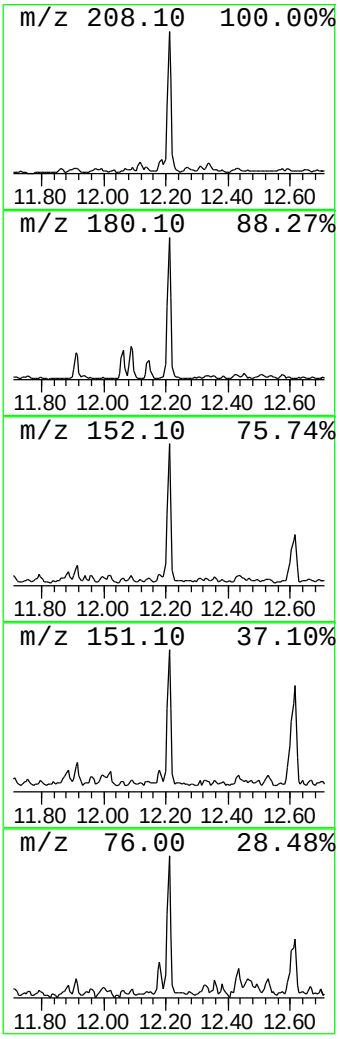
Peak Number 11 9,10-Anthracenedione Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.21	18.65 ng	309363	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	1,4-Anthracenedione	208	C14H8O2	000635-12-1	64
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60





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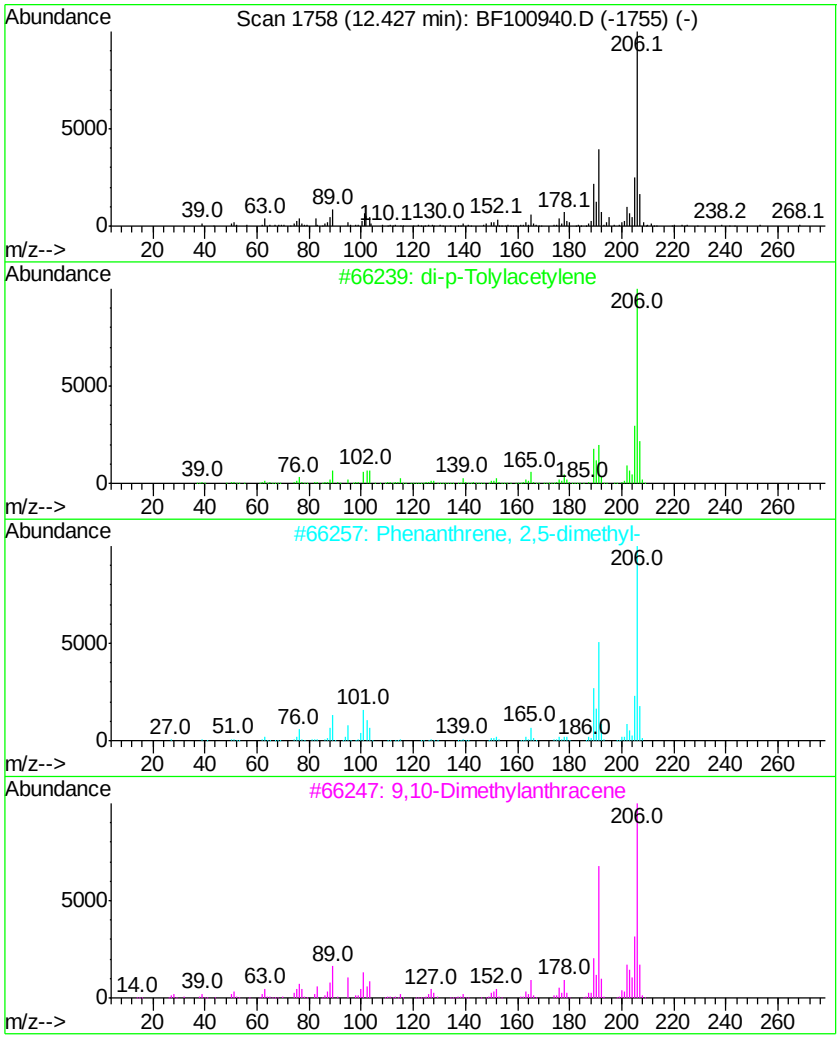
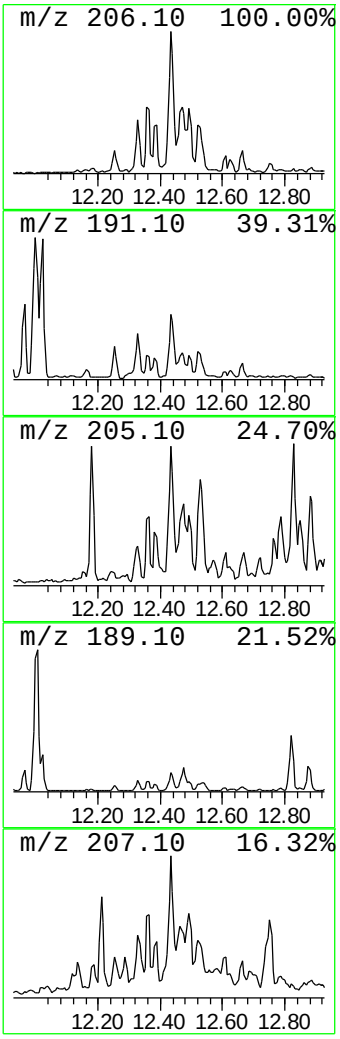
Peak Number 12 di-p-Tolylacetylene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	19.96 ng	330980	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	96
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





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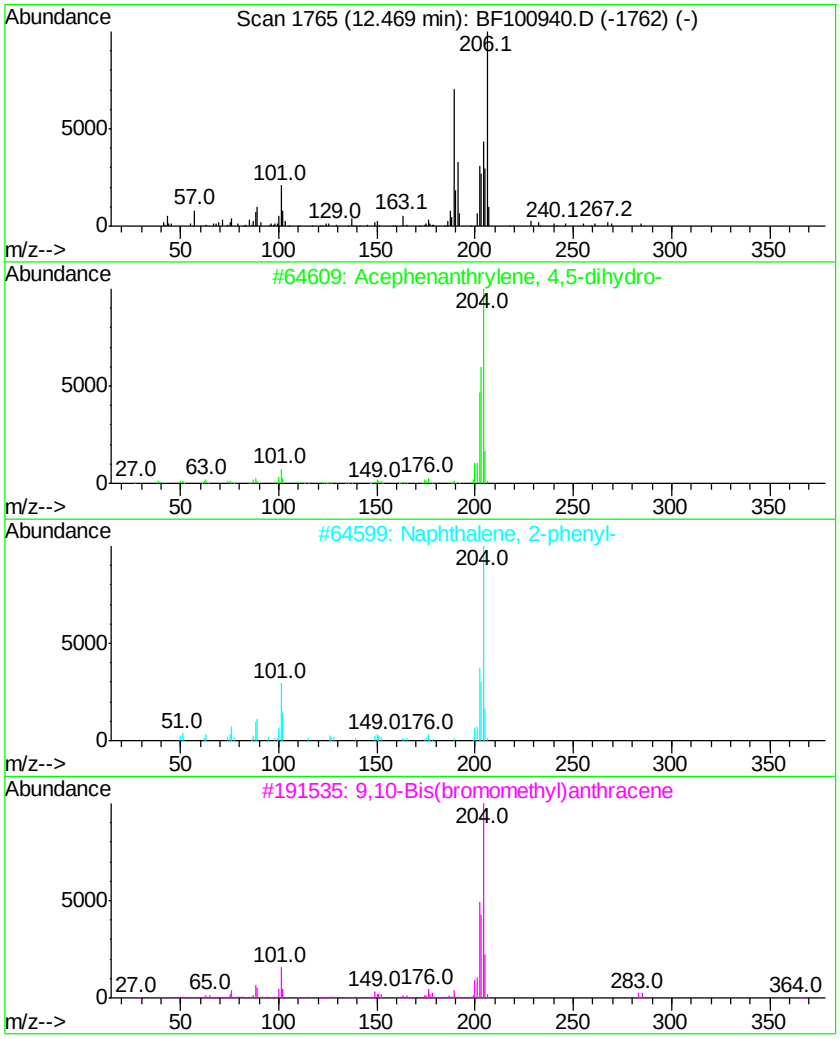
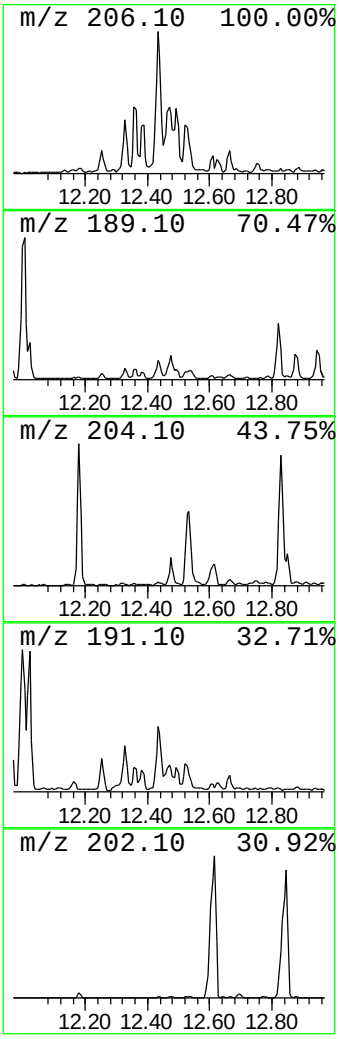
Peak Number 13 unknown12.47 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	12.69 ng	210377	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	42
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	38
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	35
4	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	35
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	30





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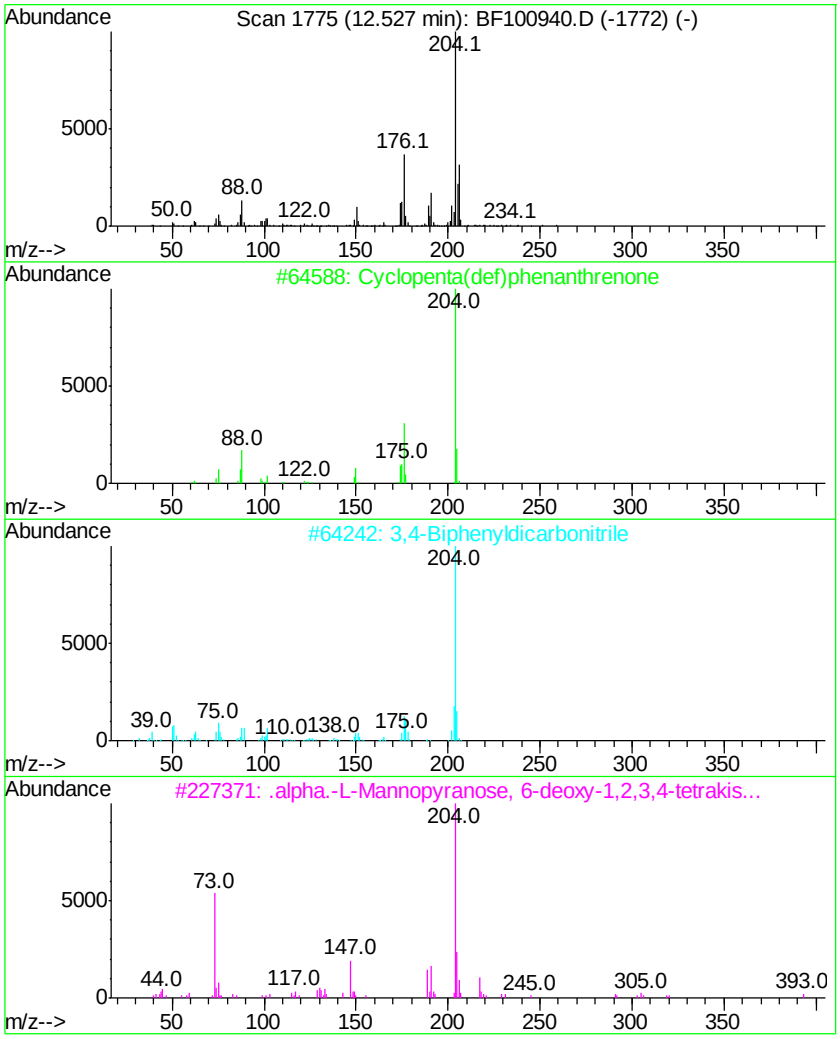
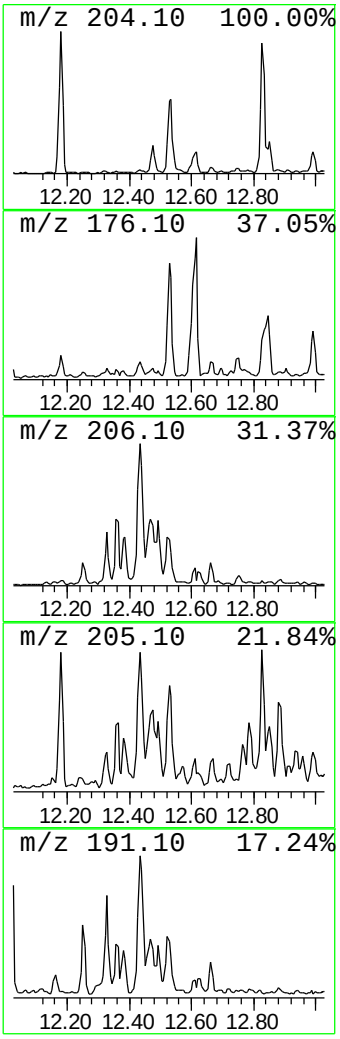
Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	17.16 ng	284604	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	94
2	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	59
3	.alpha.-L-Mannopyranose, 6-deoxy...	452	C18H44O5Si4	055057-21-1	47
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	47
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	46





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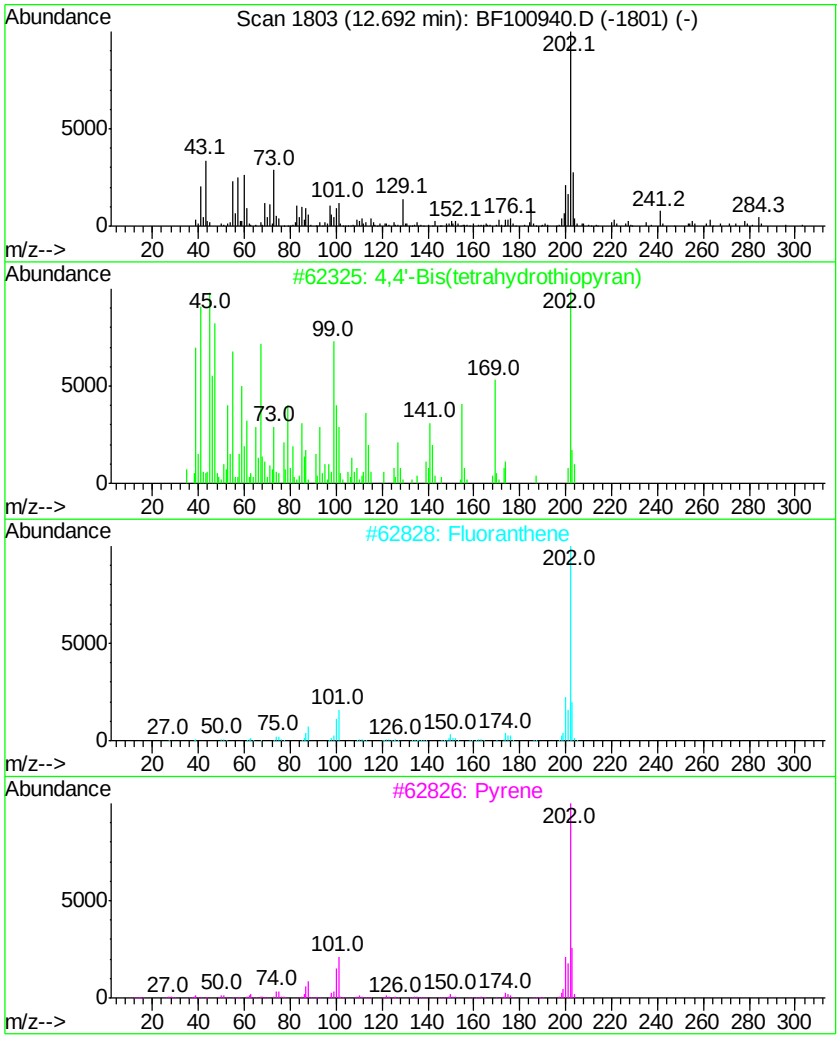
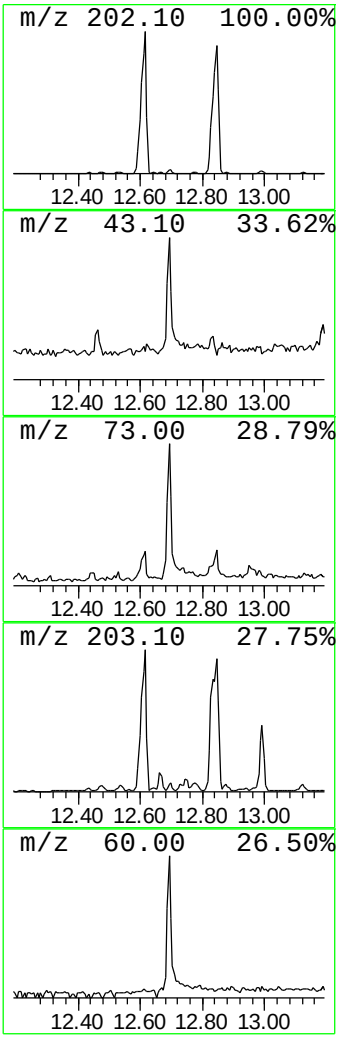
Peak Number 15 4,4'-Bis(tetrahydrothiopyran) Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.69	11.56 ng	191734	Phenanthrene-d10	11.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,4'-Bis(tetrahydrothiopyran)	202	C10H18S2	116196-83-9	93
2	Fluoranthene	202	C16H10	000206-44-0	89
3	Pyrene	202	C16H10	000129-00-0	46
4	1H-Indole-3-propanoic acid, 1-(t...	275	C15H21NO2Si	056196-72-6	45
5	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	43





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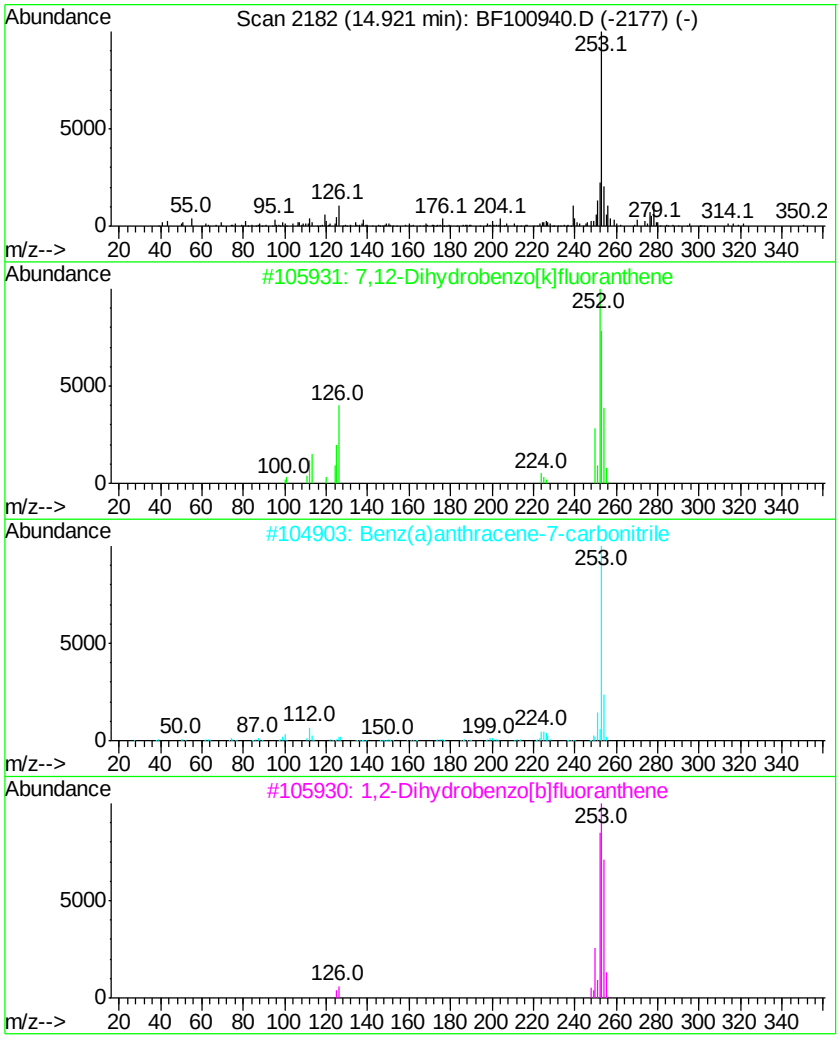
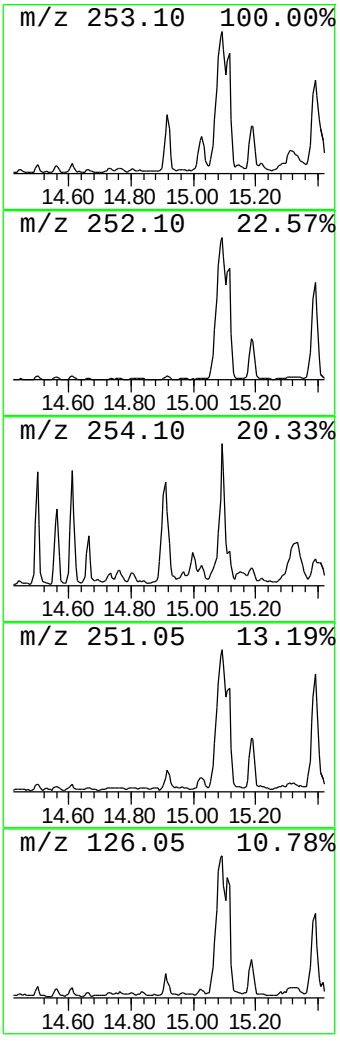
Peak Number 16 7,12-Dihydrobenzo[k]fluoran... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.92	14.79 ng	266848	Perylene-d12	15.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	62
2	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	55
3	1,2-Dihydrobenzo[b]fluoranthene	254	C20H14	100516-13-0	50
4	1H-Pyrrolo[2,3-f]quinolin-9-ol, ...	254	C16H18N2O	1000303-71-9	42
5	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	38





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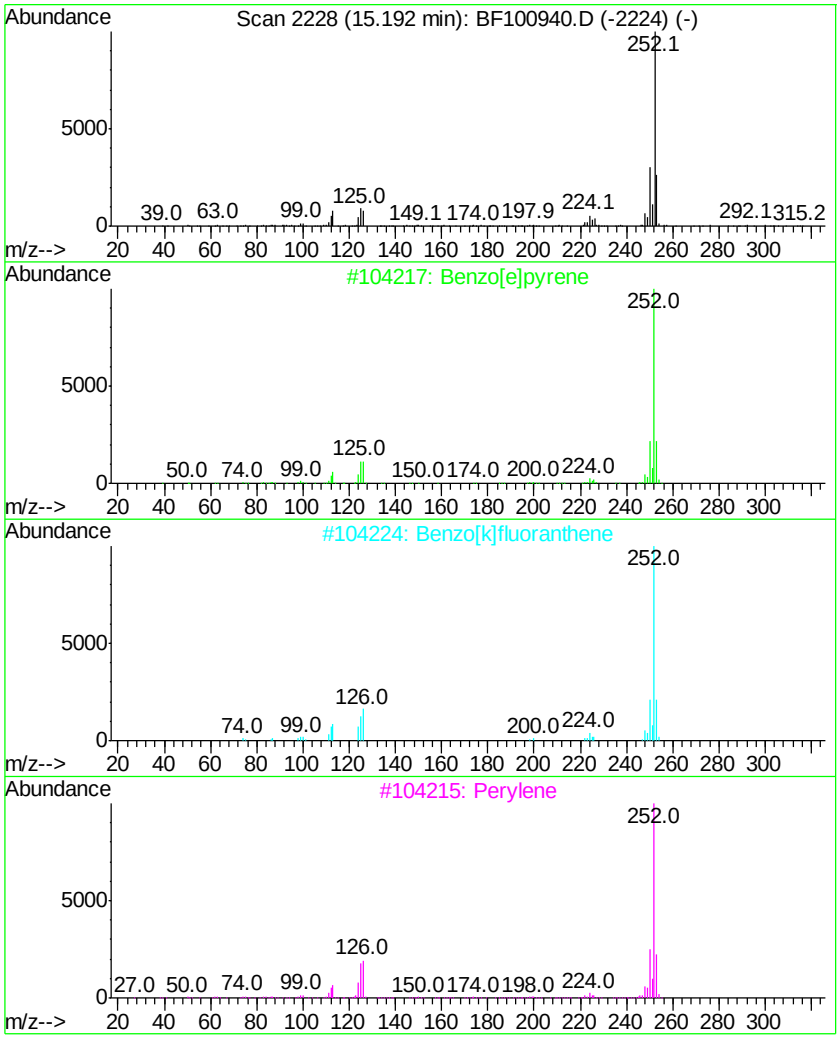
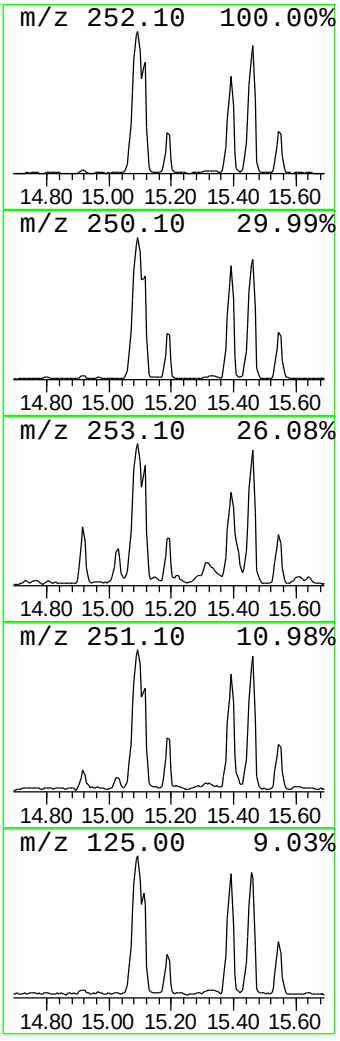
Peak Number 17 Benzo[e]pyrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.19	18.99 ng	342594	Perylene-d12	15.52

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	Perylene	252	C20H12	000198-55-0	91
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Benzo[a]pyrene	252	C20H12	000050-32-8	87





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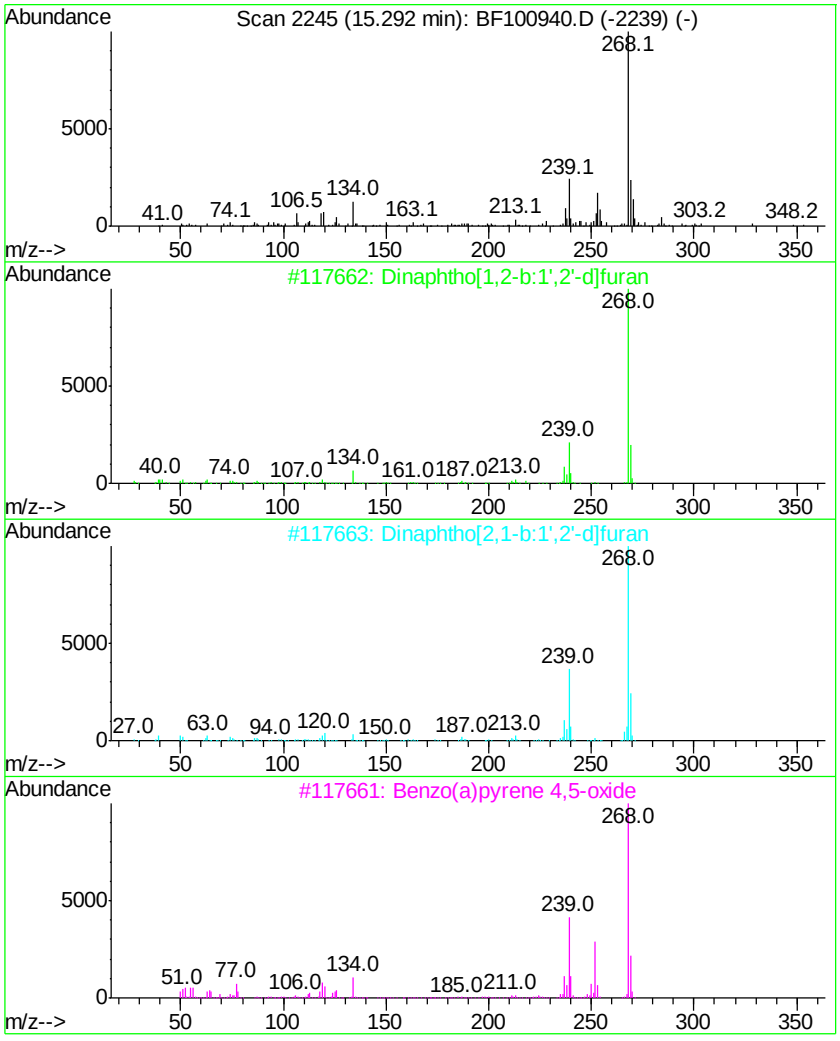
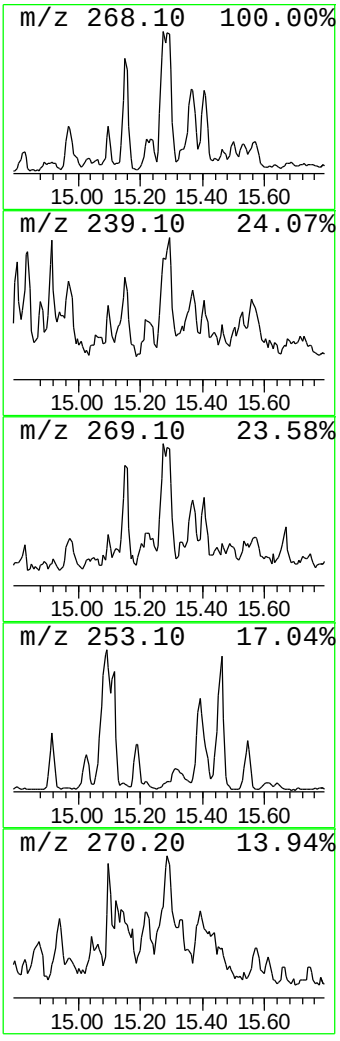
Peak Number 18 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.29	14.27 ng	257422	Perylene-d12	15.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	81
2	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	72
3	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	64
4	4H-Dibenz[a,kl]anthracene, 5,6-d...	268	C21H16	007198-87-0	64
5	4H-1-Benzopyran-4-one, 5-hydroxy...	268	C16H12O4	000520-28-5	59





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Acq On : 28 Nov 2017 18:06
Operator : SJ/JU
Sample : I6610-20
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-12(10-12)-20171127

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

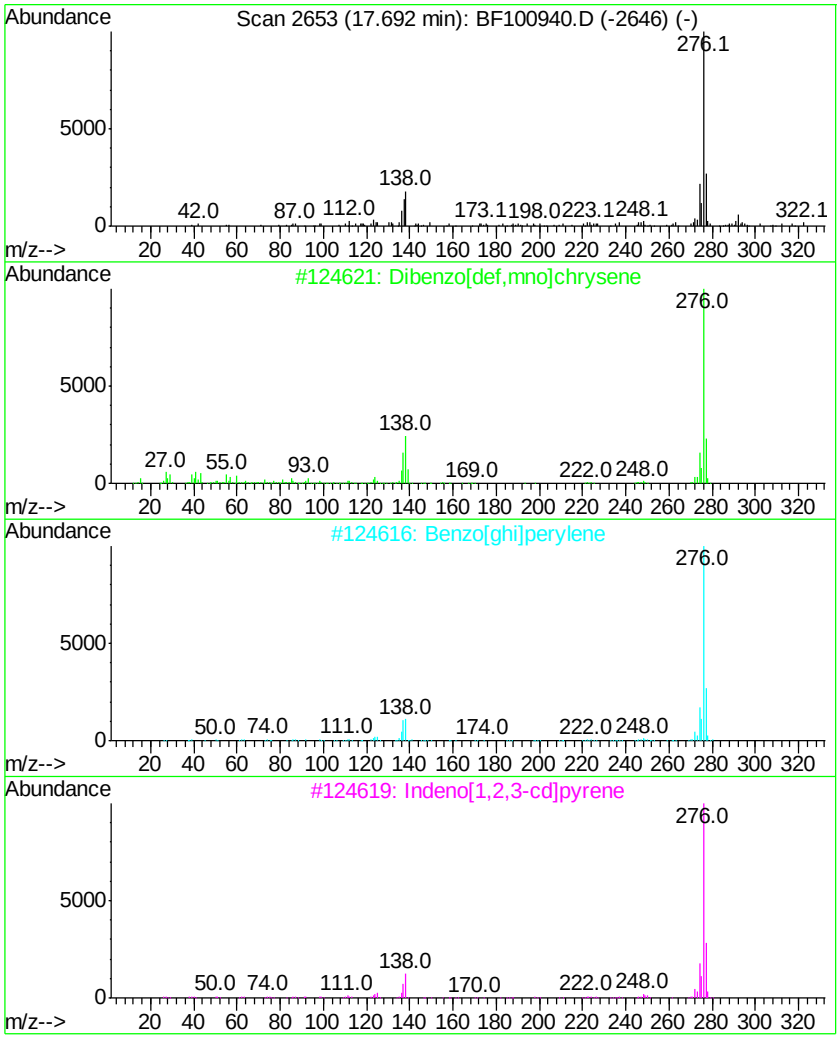
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

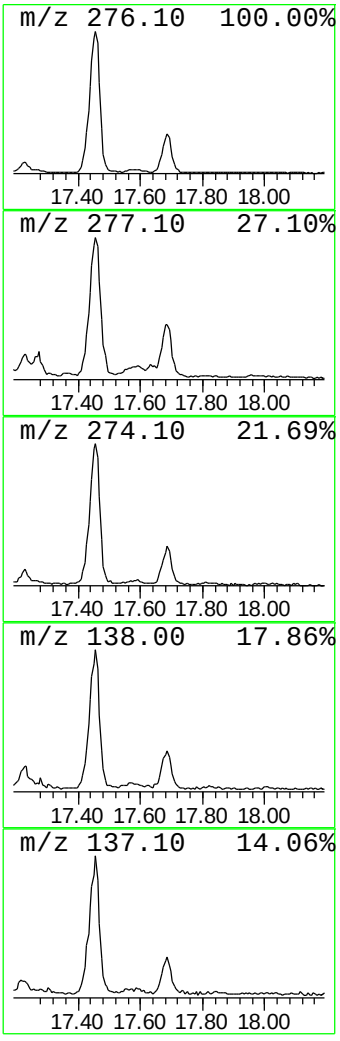
****

Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.69	17.34 ng	312830	Perylene-d12	15.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	93
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	91
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	87
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	81
5	1H-Cyclopenta[4,5]pyrido[1,2-a]b...	276	C17H16N4	329707-31-5	50





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112817\
Data File : BF100940.D
Acq On : 28 Nov 2017 18:06
Operator : SJ/JU
Sample : I6610-20
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-12(10-12)-20171127

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.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
unknown6.63	6.63	76.3	ng	1371420	1	6.86	359409	20.0
Naphthalene, 2,7-...	9.55	10.2	ng	199981	3	9.89	390760	20.0
Dibenzothiophene	11.28	15.5	ng	256634	4	11.39	331686	20.0
Anthracene, 2-met...	11.89	30.6	ng	507887	4	11.39	331686	20.0
Phenanthrene, 2-m...	11.96	12.9	ng	213346	4	11.39	331686	20.0
Benzaldehyde, 3,5...	12.00	46.2	ng	765529	4	11.39	331686	20.0
Phenanthrene, 4-m...	12.02	18.6	ng	309301	4	11.39	331686	20.0
5,16[1',2']:8,13[...	12.18	17.3	ng	287432	4	11.39	331686	20.0
9,10-Anthracenedione	12.21	18.6	ng	309363	4	11.39	331686	20.0
di-p-Tolylacetylene	12.43	20.0	ng	330980	4	11.39	331686	20.0
unknown12.47	12.47	12.7	ng	210377	4	11.39	331686	20.0
Cyclopenta(def)ph...	12.53	17.2	ng	284604	4	11.39	331686	20.0
4,4'-Bis(tetrahyd...	12.69	11.6	ng	191734	4	11.39	331686	20.0
7,12-Dihydrobenzo...	14.92	14.8	ng	266848	6	15.52	360847	20.0
Benzo[e]pyrene	15.19	19.0	ng	342594	6	15.52	360847	20.0
Dinaphtho[1,2-b:1...	15.29	14.3	ng	257422	6	15.52	360847	20.0
Dibenzo[def,mno]c...	17.69	17.3	ng	312830	6	15.52	360847	20.0