LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072318\
Data File : BF107589.D
Acq On : 23 Jul 2018 15:45
Operator : JU/SJ
Sample : J3827-03 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-01-071918

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-BF072018.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	5.201	483	487	496	rBV	406279	464074	5.14%	0.383%
2	5.601	551	555	579	rBV	2317147	2982820	33.05%	2.463%
3	6.601	721	725	745	rBV	2355085	3150234	34.91%	2.601%
4	6.743	746	749	757	rBV	2943296	3088422	34.22%	2.550%
5	6.972	785	788	811	rVB	1726624	1933257	21.42%	1.596%
6	7.131	811	815	830	rBV	2379340	2555354	28.32%	2.110%
7	7.537	880	884	904	rBV	1604939	2064769	22.88%	1.705%
8	8.260	1003	1007	1018	rBV	2171143	2656966	29.44%	2.194%
9	8.972	1125	1128	1135	rBV	133952	150407	1.67%	0.124%
10	9.072	1141	1145	1150	rVB	130485	122744	1.36%	0.101%
11	9.331	1185	1189	1198	rBV	3800759	3647409	40.42%	3.012%
12	9.601	1230	1235	1239	rBV	100590	151744	1.68%	0.125%
13	9.672	1243	1247	1249	rBV	160030	155550	1.72%	0.128%
14	9.719	1253	1255	1258	rBV	190419	165298	1.83%	0.137%
15	9.878	1279	1282	1287	rBV	596429	608204	6.74%	0.502%
16	9.925	1287	1290	1294	rVB2	92665	99575	1.10%	0.082%
17	10.019	1302	1306	1309	rBV	2432985	2253293	24.97%	1.861%
18	10.048	1309	1311	1319	rVB	791522	717751	7.95%	0.593%
19	10.172	1327	1332	1336	rBV2	78857	111361	1.23%	0.092%
20	10.225	1336	1341	1344	rBV2	267431	337201	3.74%	0.278%
21	10.254	1344	1346	1350	rVB	127414	113873	1.26%	0.094%
22	10.331	1355	1359	1362	rBV	155038	202183	2.24%	0.167%
23	10.425	1370	1375	1380	rBV4	156106	238898	2.65%	0.197%
24	10.472	1380	1383	1387	rBV2	97460	112184	1.24%	0.093%
25	10.566	1396	1399	1405	rVB	624794	655324	7.26%	0.541%
26	10.725	1420	1426	1429	rVB3	173229	230840	2.56%	0.191%
27	10.807	1436	1440	1447	rBV	1927549	2091589	23.18%	1.727%
28	10.907	1454	1457	1461	rBV3	115118	224180	2.48%	0.185%
29	11.113	1487	1492	1495	rBV2	219028	294959	3.27%	0.244%
30	11.142	1495	1497	1500	rVV2	161859	173281	1.92%	0.143%
31	11.195	1504	1506	1509	rVV2	163915	147761	1.64%	0.122%
32	11.242	1509	1514	1515	rVV3	154327	216294	2.40%	0.179%
33	11.266	1515	1518	1524	rVV3	183803	316527	3.51%	0.261%
34	11.313	1524	1526	1530	rVV	156833	204174	2.26%	0.169%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072318\
Data File : BF107589.D
Acq On : 23 Jul 2018 15:45
Operator : JU/SJ
Sample : J3827-03 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-01-071918

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-BF072018.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.354	1530	1533	1536	rVV	259731	286956	3.18%	0.237%
36	11.407	1539	1542	1548	rVB	293353	319812	3.54%	0.264%
37	11.513	1556	1560	1562	rBV	2199455	2131957	23.62%	1.761%
38	11.536	1562	1564	1570	rVB	4156575	3835309	42.50%	3.167%
39	11.589	1570	1573	1577	rBV	1903109	1759320	19.49%	1.453%
40	11.748	1595	1600	1603	rBV3	258579	391065	4.33%	0.323%
41	11.777	1603	1605	1607	rVV2	145952	135162	1.50%	0.112%
42	11.801	1607	1609	1613	rVV	190347	203194	2.25%	0.168%
43	11.842	1613	1616	1620	rVB2	138649	165644	1.84%	0.137%
44	12.013	1642	1645	1648	rBV	722713	793721	8.80%	0.655%
45	12.042	1648	1650	1655	rVV	1007350	933902	10.35%	0.771%
46	12.089	1655	1658	1661	rVV	583393	550841	6.10%	0.455%
47	12.130	1661	1665	1672	rVV2	1822405	2374781	26.31%	1.961%
48	12.189	1673	1675	1678	rVB2	112470	90969	1.01%	0.075%
49	12.307	1692	1695	1698	rBV	585870	516653	5.72%	0.427%
50	12.336	1698	1700	1706	rVB	259746	263235	2.92%	0.217%
51	12.460	1718	1721	1723	rVB	130009	111751	1.24%	0.092%
52	12.489	1723	1726	1728	rBV	166369	111174	1.23%	0.092%
53	12.513	1728	1730	1733	rVB	202585	160514	1.78%	0.133%
54	12.566	1735	1739	1742	rBV	523580	776642	8.61%	0.641%
55	12.601	1742	1745	1748	rVV2	396012	558339	6.19%	0.461%
56	12.654	1751	1754	1763	rVB2	545331	850228	9.42%	0.702%
57	12.736	1763	1768	1772	rBV	6944863	7743958	85.81%	6.395%
58	12.795	1776	1778	1781	rVV	265417	231326	2.56%	0.191%
59	12.824	1781	1783	1786	rVV	217465	176609	1.96%	0.146%
60	12.883	1790	1793	1796	rVV2	404638	507234	5.62%	0.419%
61	12.972	1800	1808	1812	rBV2	6620261	9024588	100.00%	7.452%
62	13.007	1812	1814	1818	rVB2	475810	522811	5.79%	0.432%
63	13.095	1823	1829	1832	rBV2	2864406	3097864	34.33%	2.558%
64	13.177	1838	1843	1848	rBV3	657872	1169531	12.96%	0.966%
65	13.289	1854	1862	1866	rBV2	1369952	2158519	23.92%	1.782%
66	13.354	1870	1873	1876	rVV	1064263	1003164	11.12%	0.828%
67	13.395	1876	1880	1883	rVV2	974295	1213431	13.45%	1.002%
68	13.448	1887	1889	1893	rVV2	165941	182496	2.02%	0.151%
69	13.489	1893	1896	1898	rVV	638753	607957	6.74%	0.502%
70	13.519	1898	1901	1908	rVB	775094	929638	10.30%	0.768%
71	13.736	1936	1938	1941	rVB3	152097	118971	1.32%	0.098%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J3827-03 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-01-071918

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.771	1941	1944	1946	rBV3	281556	333993	3.70%	0.276%
73	13.801	1946	1949	1953	rVV	604254	701554	7.77%	0.579%
74	13.860	1957	1959	1962	rVB	209414	173417	1.92%	0.143%
75	13.913	1963	1968	1970	rBV3	712490	913836	10.13%	0.755%
76	13.942	1970	1973	1975	rVV	754730	800257	8.87%	0.661%
77	13.966	1975	1977	1982	rVV2	900212	1441550	15.97%	1.190%
78	14.007	1982	1984	1988	rVB	519921	559588	6.20%	0.462%
79	14.160	2004	2010	2014	rBV2	4491732	7508924	83.21%	6.201%
80	14.195	2014	2016	2023	rVB	4052122	3805255	42.17%	3.142%
81	14.248	2023	2025	2027	rBV2	175127	149814	1.66%	0.124%
82	14.271	2027	2029	2034	rBV	951923	1060237	11.75%	0.876%
83	14.313	2034	2036	2042	rVV5	312783	424683	4.71%	0.351%
84	14.360	2042	2044	2046	rVV	174007	102903	1.14%	0.085%
85	14.513	2068	2070	2072	rBV	353275	367627	4.07%	0.304%
86	14.554	2074	2077	2080	rVV	972297	1041453	11.54%	0.860%
87	14.589	2080	2083	2086	rVB	467343	461043	5.11%	0.381%
88	14.683	2096	2099	2101	rBV2	458138	447700	4.96%	0.370%
89	14.707	2101	2103	2107	rVB	668155	574566	6.37%	0.474%
90	15.260	2191	2197	2199	rBV	3093170	5270662	58.40%	4.352%
91	15.365	2211	2215	2222	rBV	869883	1084112	12.01%	0.895%
92	15.577	2247	2251	2258	rVB	1882076	2686917	29.77%	2.219%
93	15.654	2258	2264	2268	rVV	2893614	4252217	47.12%	3.511%
94	15.713	2269	2274	2277	rVV	1176386	1864198	20.66%	1.539%
95	15.748	2277	2280	2287	rVB2	1031037	1477955	16.38%	1.220%
96	17.295	2537	2543	2551	rVB2	1076814	2194778	24.32%	1.812%
97	17.477	2571	2574	2580	rVB	221165	370657	4.11%	0.306%
98	17.783	2619	2626	2639	rVB	958864	2378604	26.36%	1.964%

Sum of corrected areas: 121096266

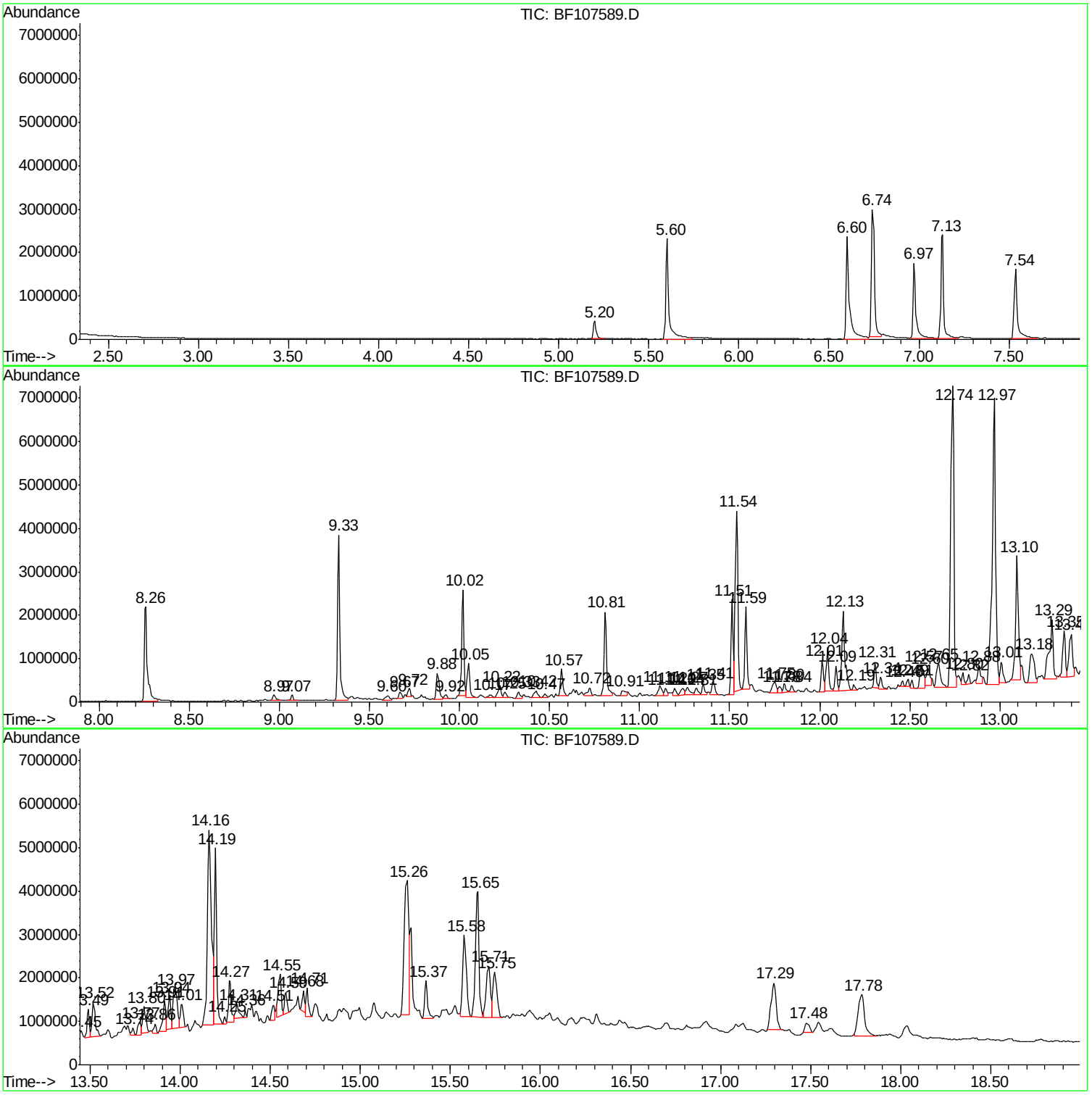
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072318\
Data File : BF107589.D
Acq On : 23 Jul 2018 15:45
Operator : JU/SJ
Sample : J3827-03 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-01-071918

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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\BF072318\
Data File : BF107589.D
Acq On : 23 Jul 2018 15:45
Operator : JU/SJ
Sample : J3827-03 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-01-071918

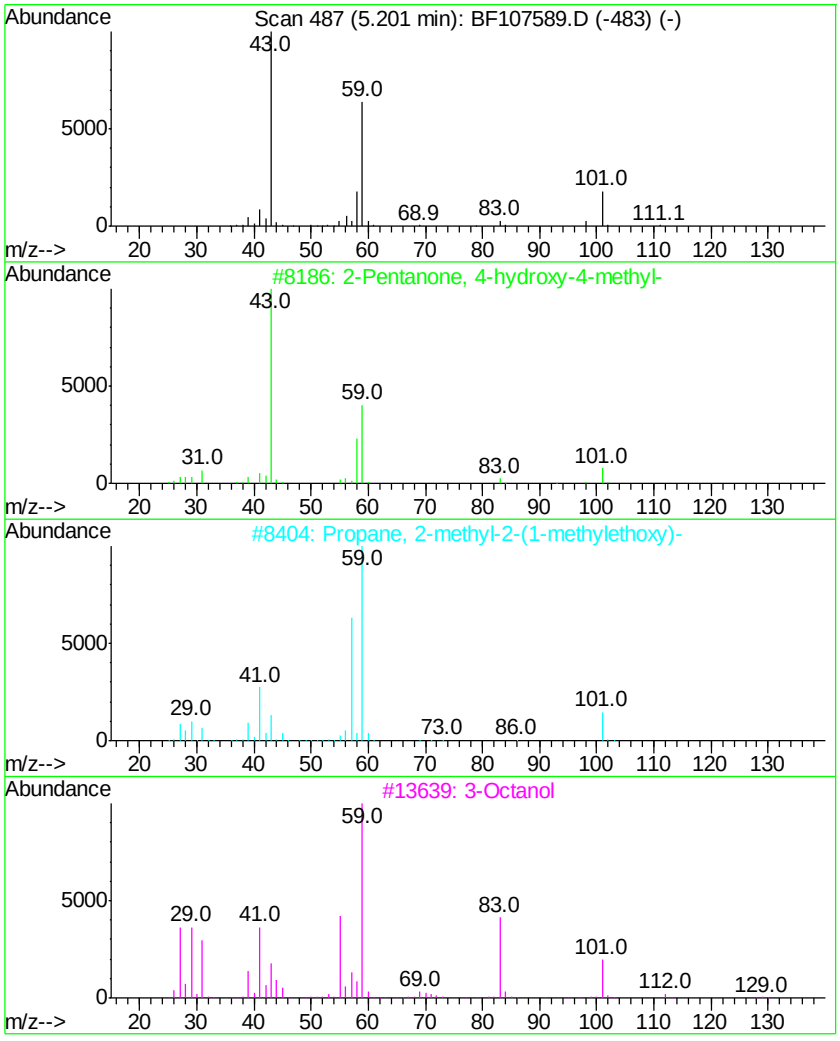
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

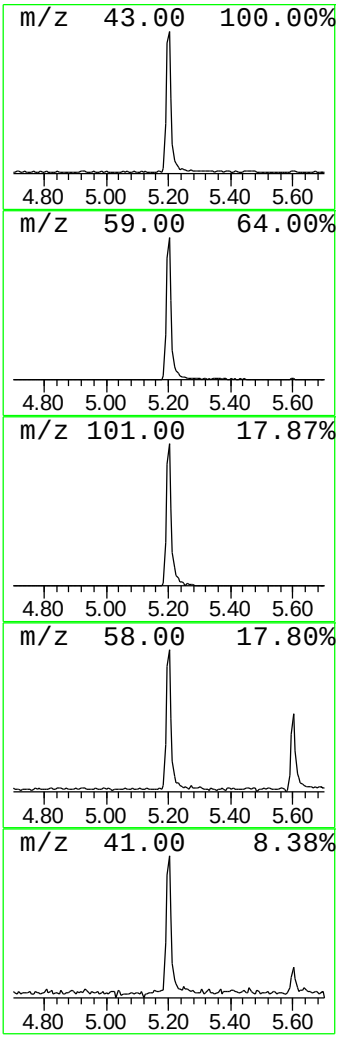
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.20	4.80 ng	464074	1,4-Dichlorobenzene-d4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	53
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	36
3	3-Octanol	130	C8H18O	000589-98-0	33
4	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
5	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072318\
Data File : BF107589.D
Acq On : 23 Jul 2018 15:45
Operator : JU/SJ
Sample : J3827-03 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-01-071918

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

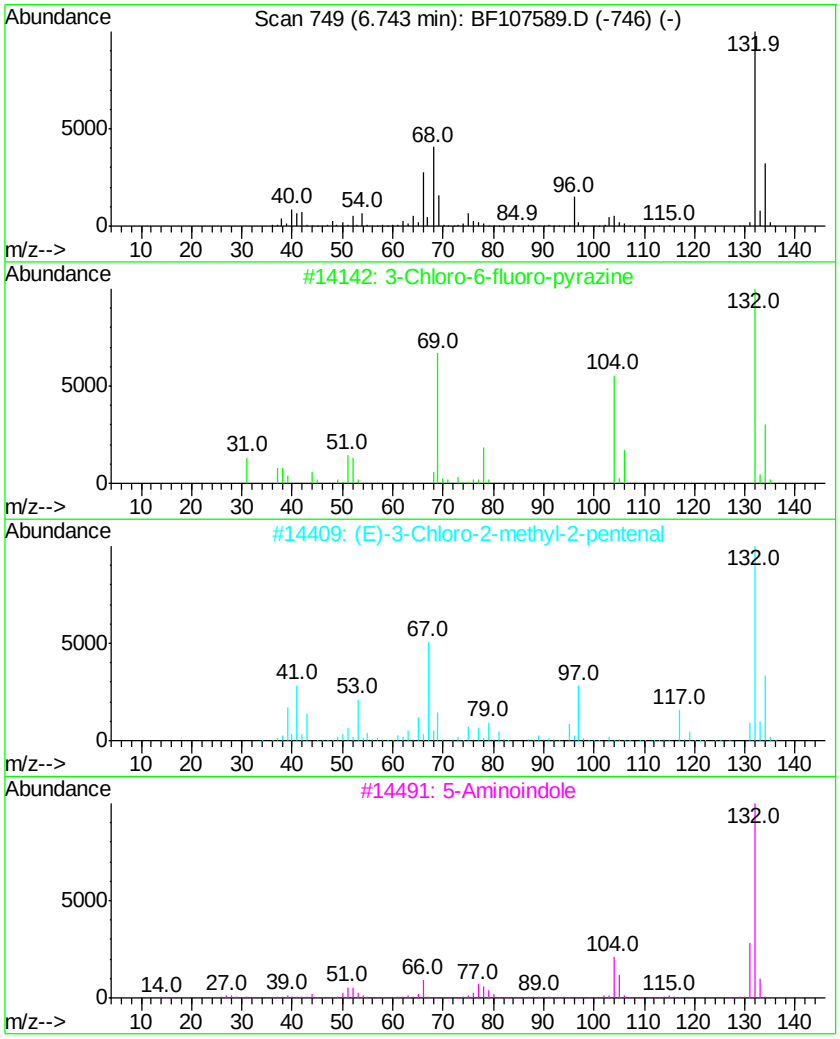
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

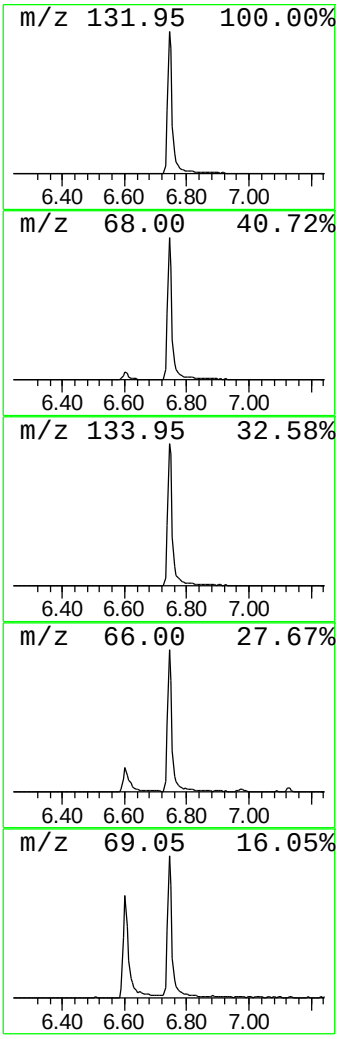
****

Peak Number 2 unknown6.74 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.74	31.95 ng	3088420	1,4-Dichlorobenzene-d4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9





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Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

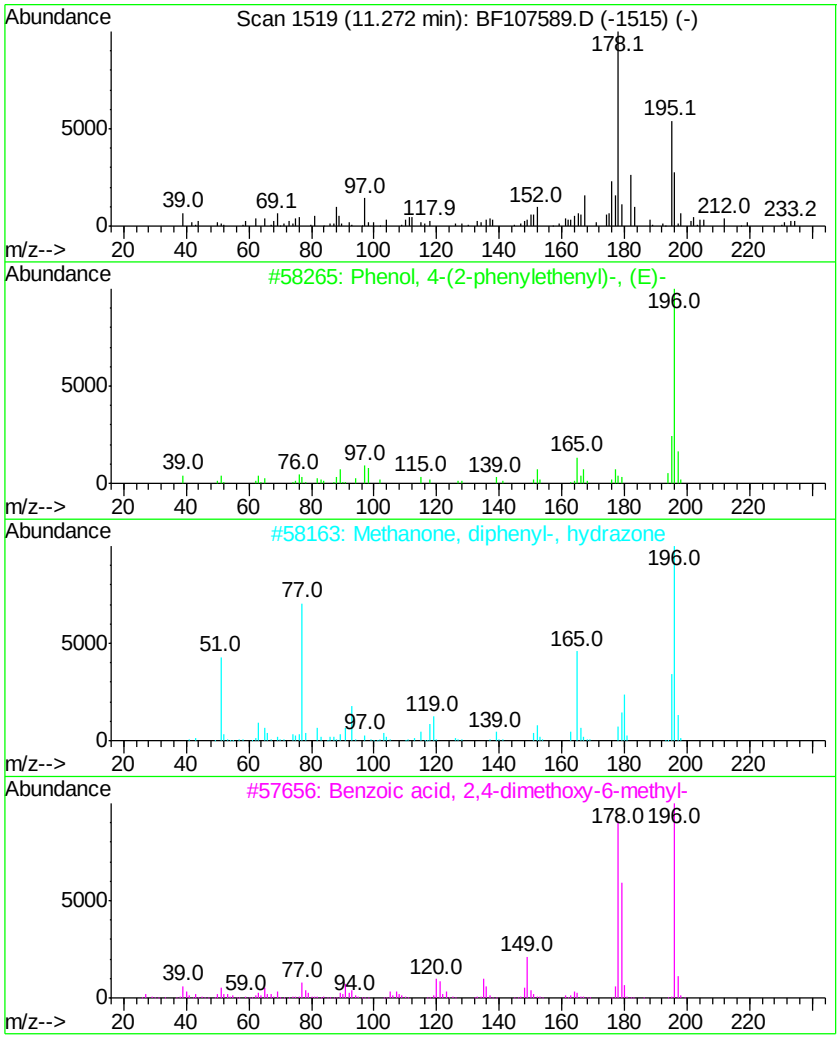
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

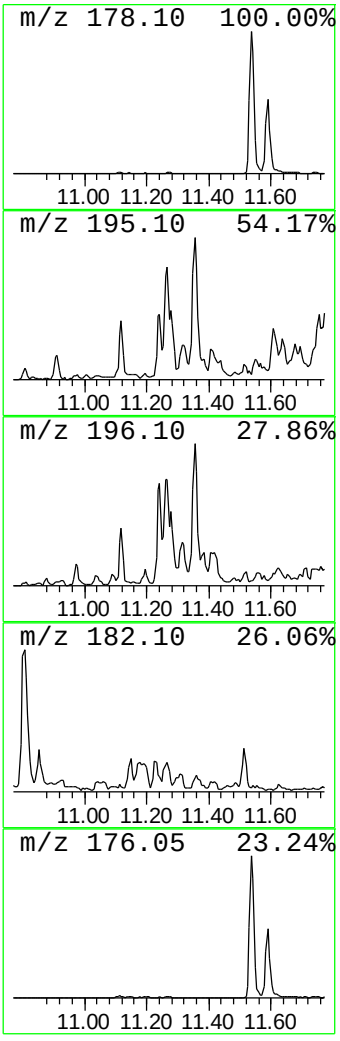
****

Peak Number 4 unknown11.27 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.27	2.97 ng	316527	Phenanthrene-d10	11.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	45
2	Methanone, diphenyl-, hydrazone	196	C13H12N2	005350-57-2	35
3	Benzoic acid, 2,4-dimethoxy-6-me...	196	C10H12O4	003686-57-5	35
4	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	35
5	Dibenz[c,e]oxepin, 5,7-dihydro-	196	C14H12O	001136-22-7	35





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Data File : BF107589.D
Acq On : 23 Jul 2018 15:45
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Sample : J3827-03 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-01-071918

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

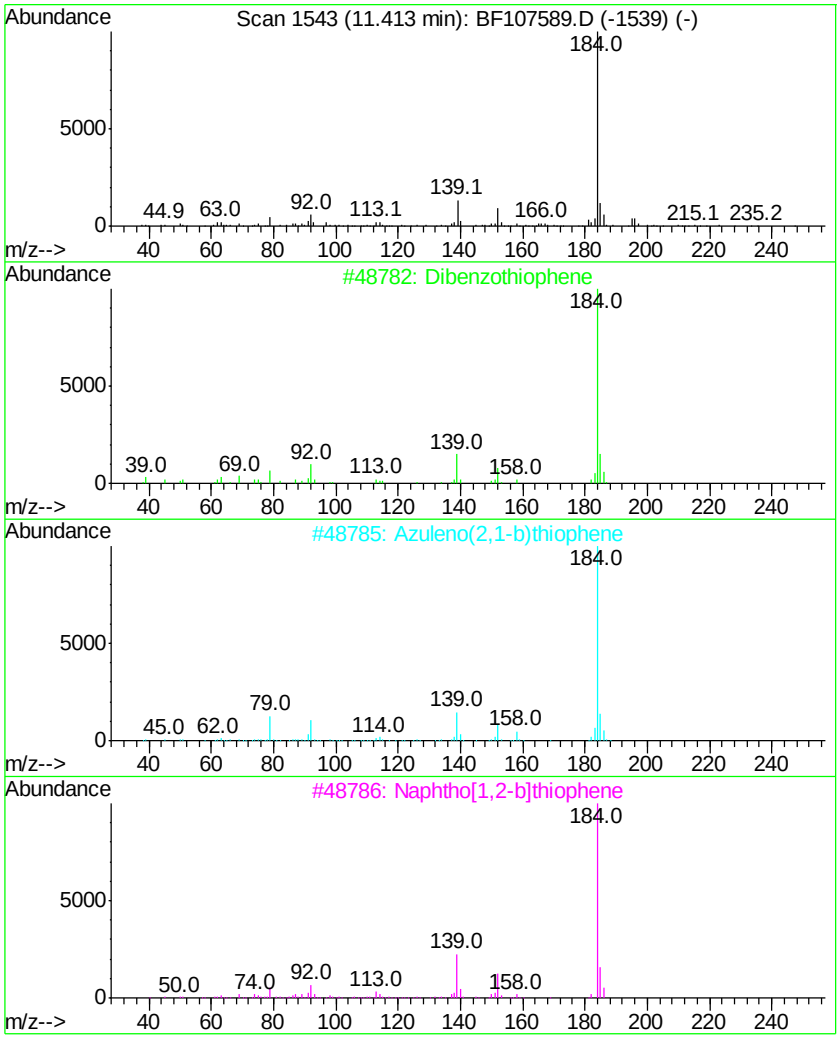
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

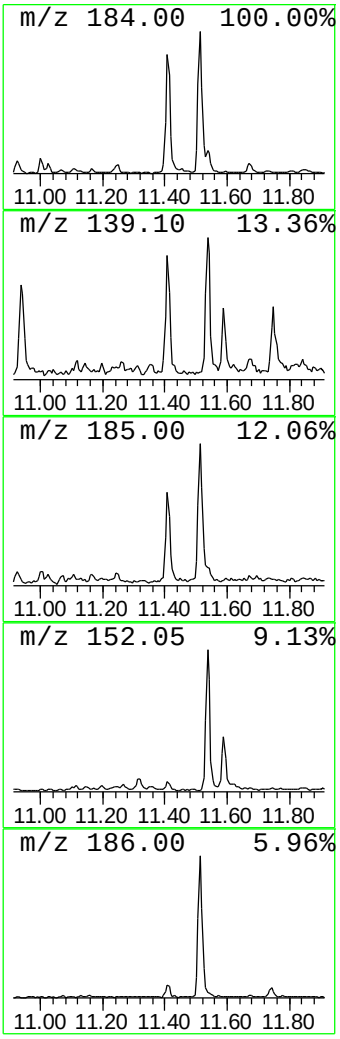
****

Peak Number 5 Dibenzothiophene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.41	3.00 ng	319812	Phenanthrene-d10	11.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	93
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	91
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	87
5	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	72





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072318\
Data File : BF107589.D
Acq On : 23 Jul 2018 15:45
Operator : JU/SJ
Sample : J3827-03 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-01-071918

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

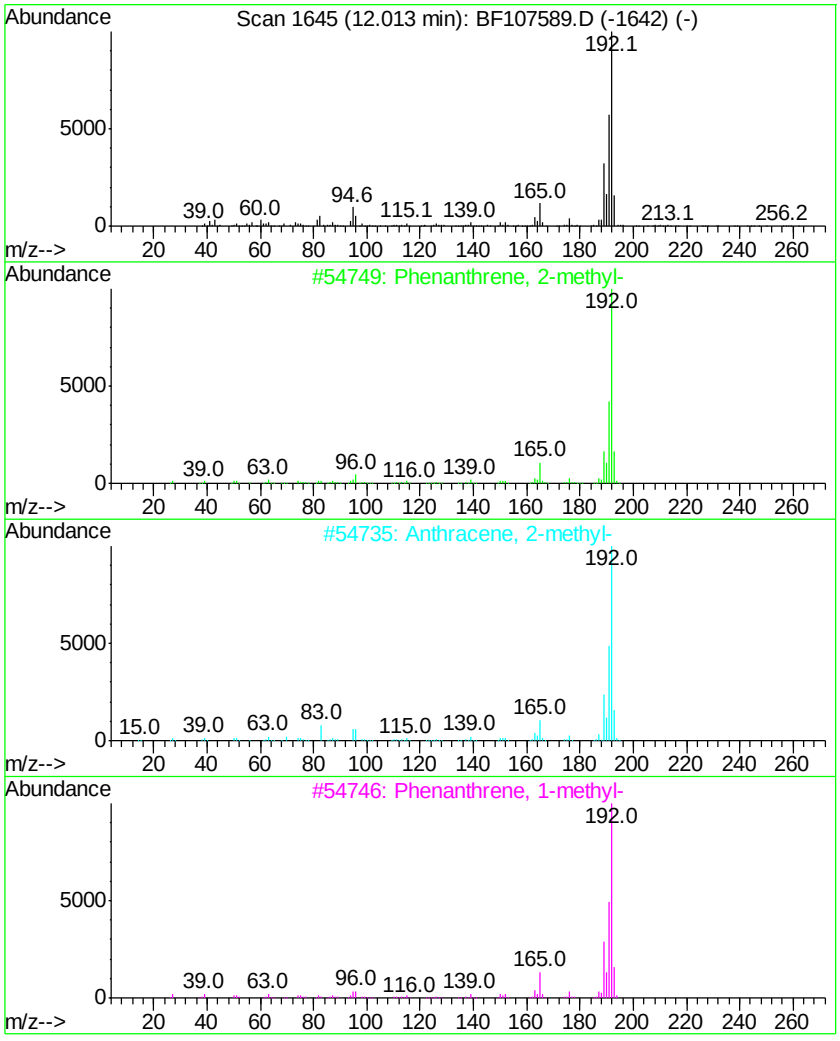
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

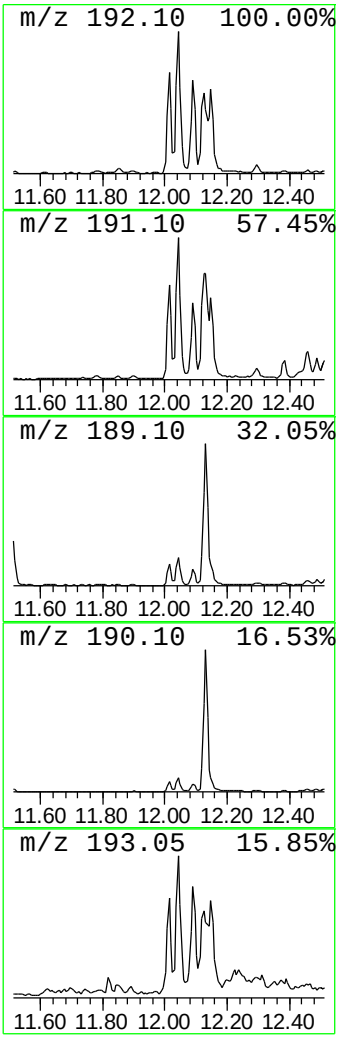
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	7.45 ng	793721	Phenanthrene-d10	11.51

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	92
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Sample : J3827-03 2X
Misc :
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ClientSampleId : OR-01-071918

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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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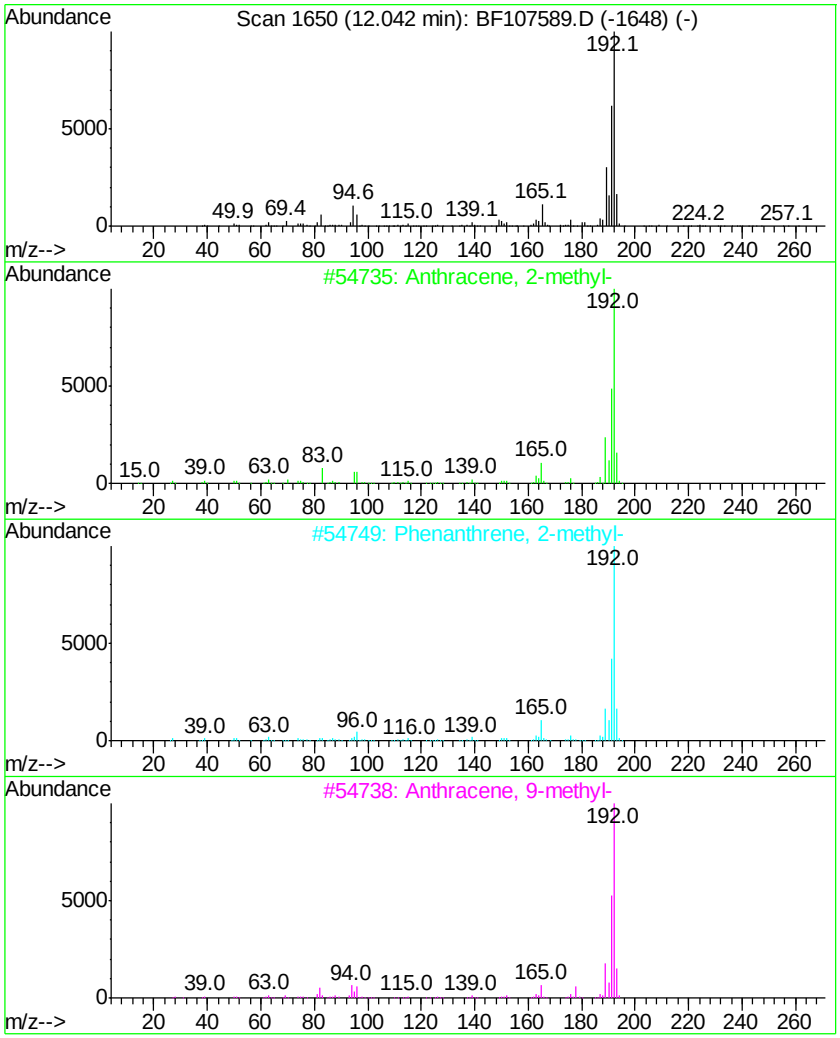
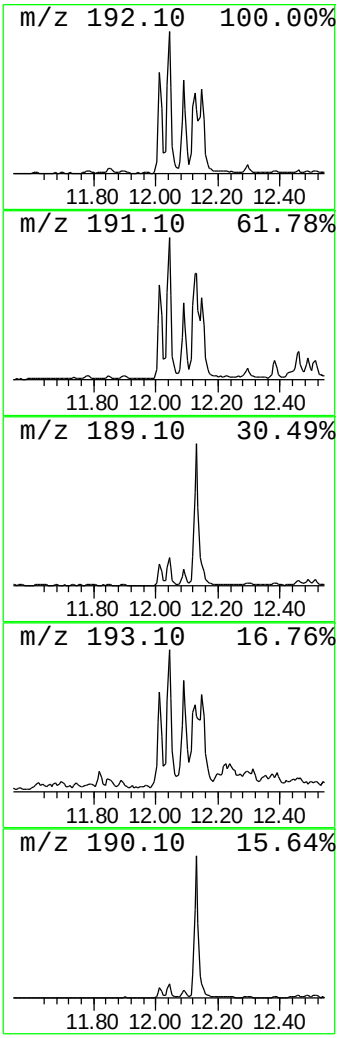
Peak Number 7 Anthracene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.04	8.76 ng	933902	Phenanthrene-d10	11.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	94
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93





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Instrument : BNA_F
ClientSampleId : OR-01-071918

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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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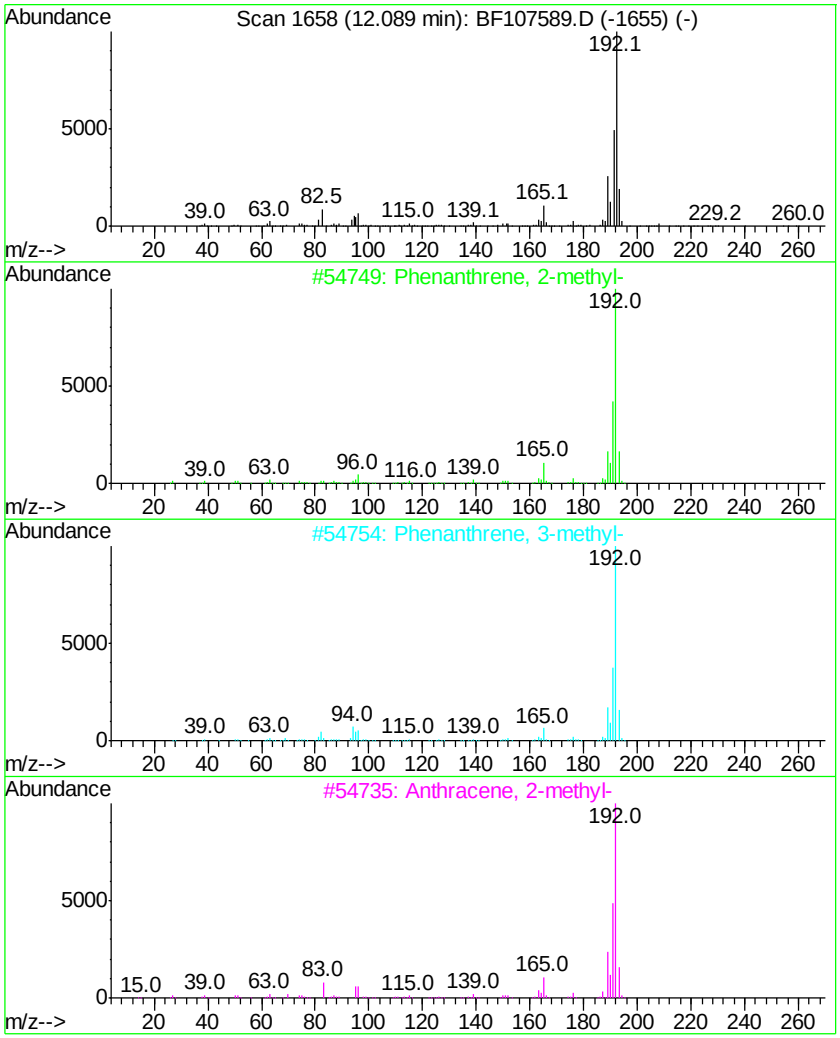
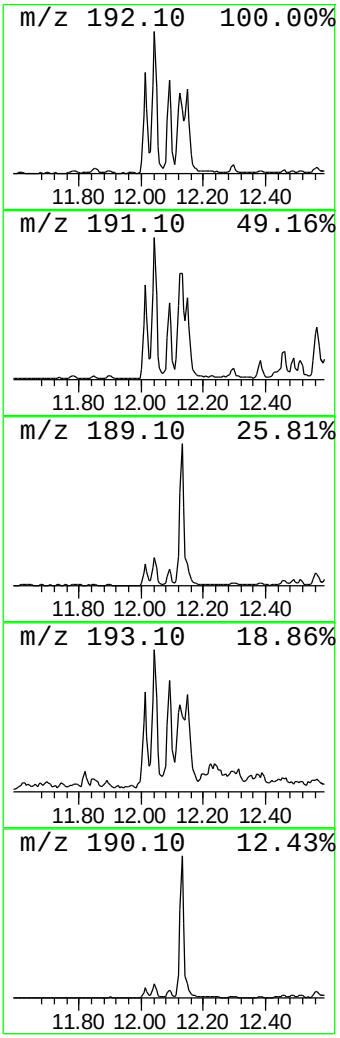
Peak Number 8 Phenanthrene, 3-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	5.17 ng	550841	Phenanthrene-d10	11.51

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





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

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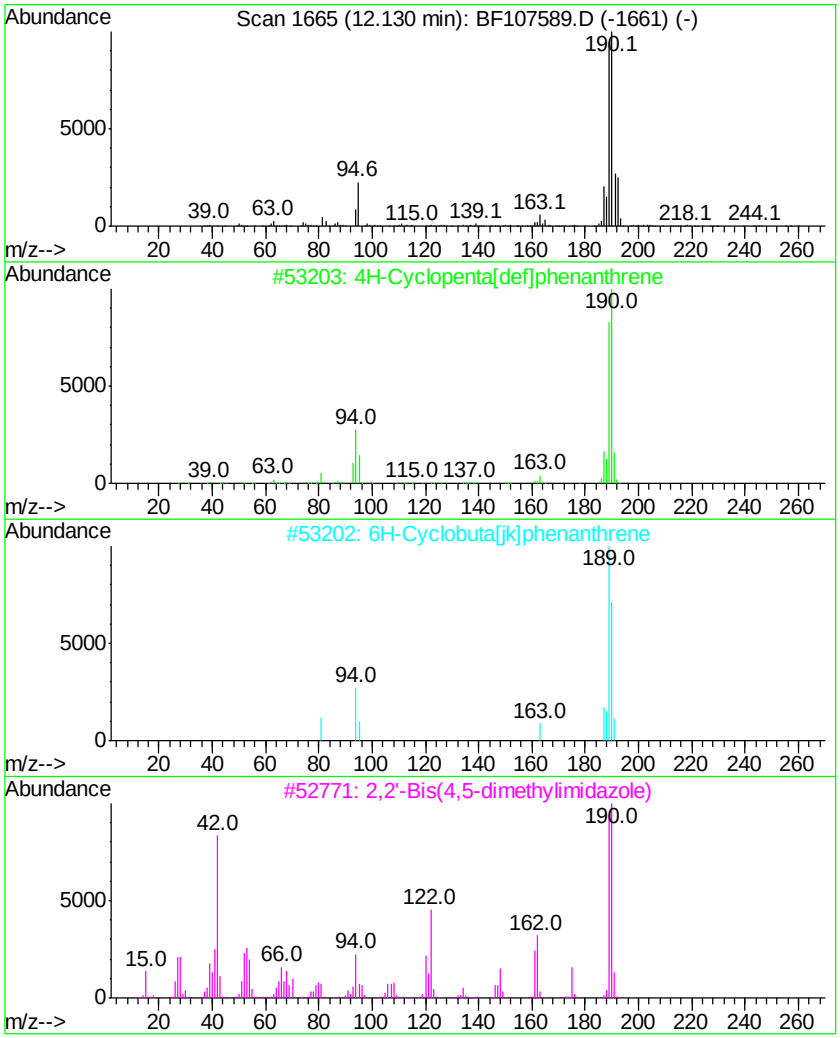
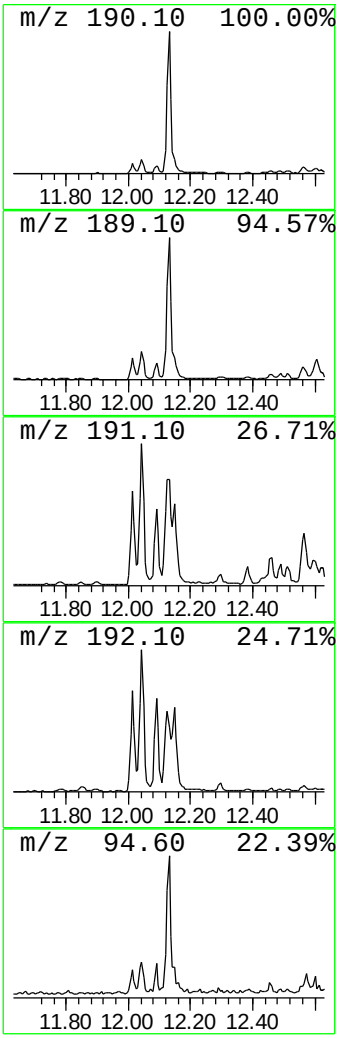
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	22.28 ng	2374780	Phenanthrene-d10	11.51

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	64
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
4	Methyl diselenide	190	C2H6Se2	007101-31-7	25
5	2,6-Dichlorobenzaldoxime	189	C7H5Cl2NO	025185-95-9	18





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ClientSampleId : OR-01-071918

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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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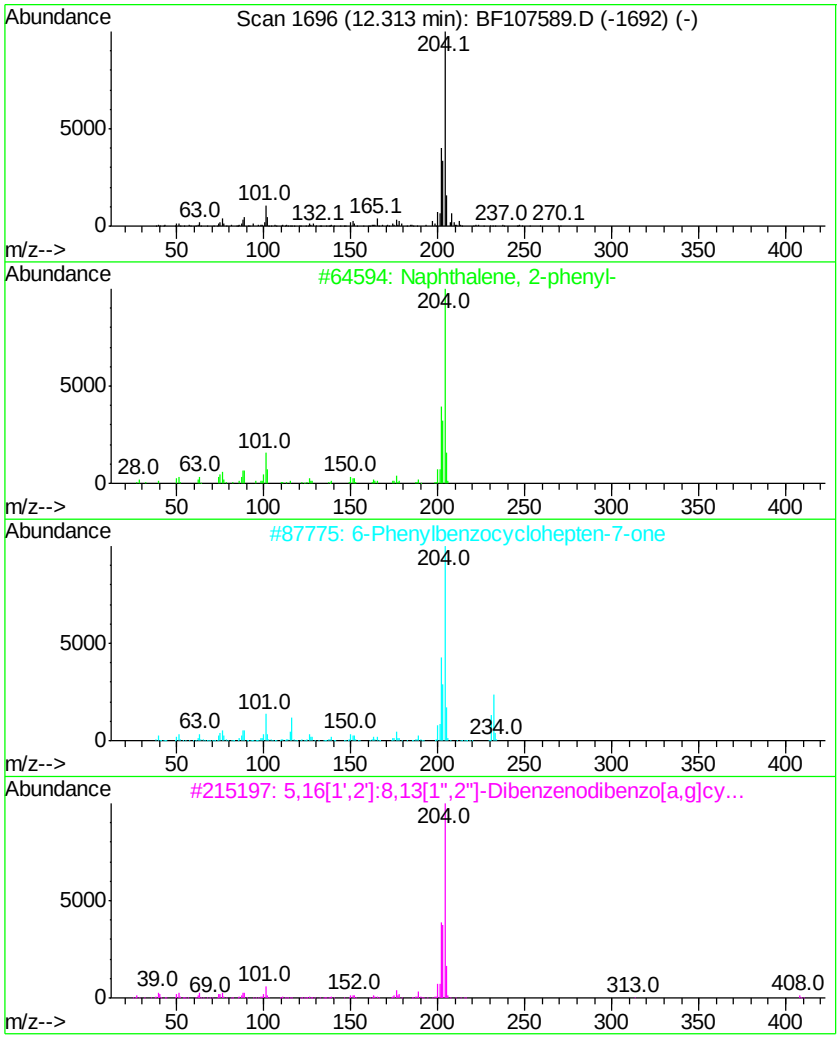
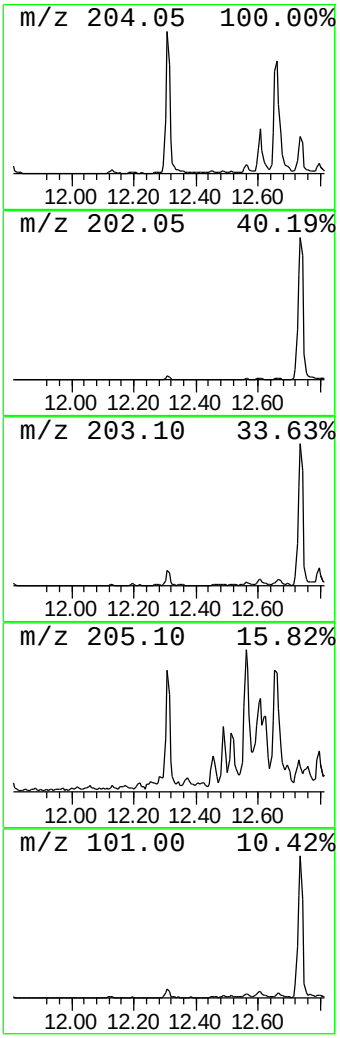
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.31	4.85 ng	516653	Phenanthrene-d10	11.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	90
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	60
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58





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

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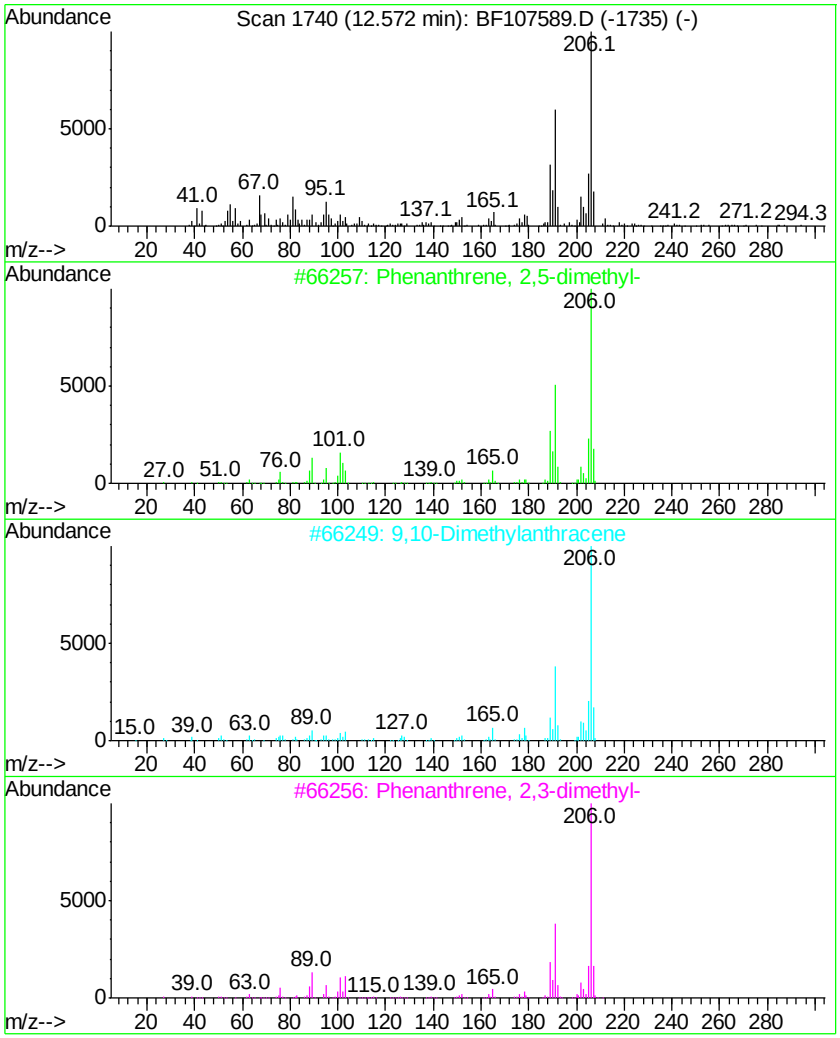
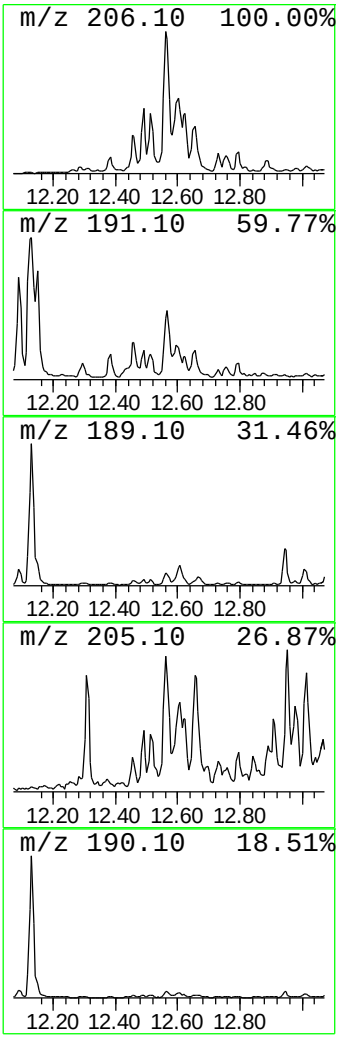
Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	7.29 ng	776642	Phenanthrene-d10	11.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	94
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87





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

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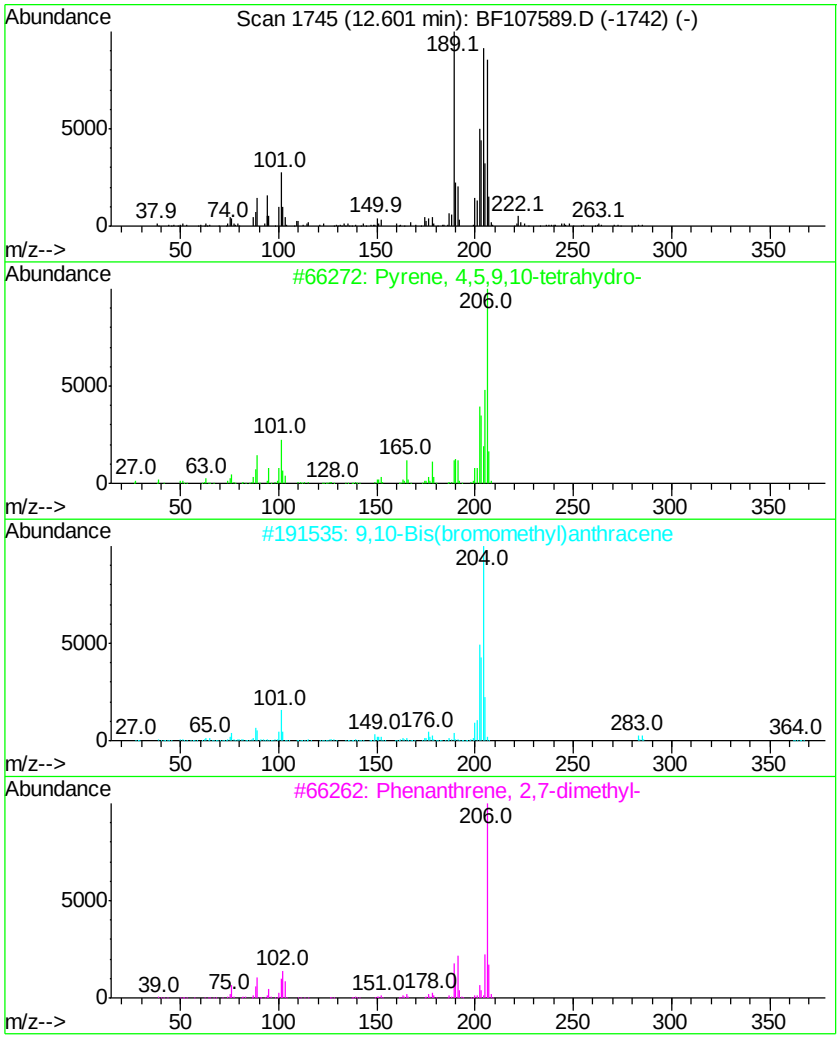
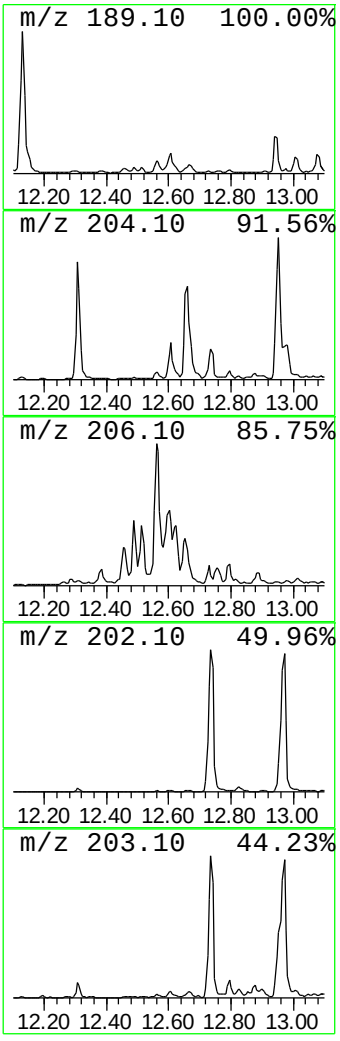
Peak Number 12 unknown12.60 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.60	5.24 ng	558339	Phenanthrene-d10	11.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	38
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	35
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	25
4	4-Amino-3,5-dichloro-2,6-dimethy...	206	C7H8Cl2N2O	1000227-19-9	25
5	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	20





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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TIC Integration Parameters: LSCINT.P

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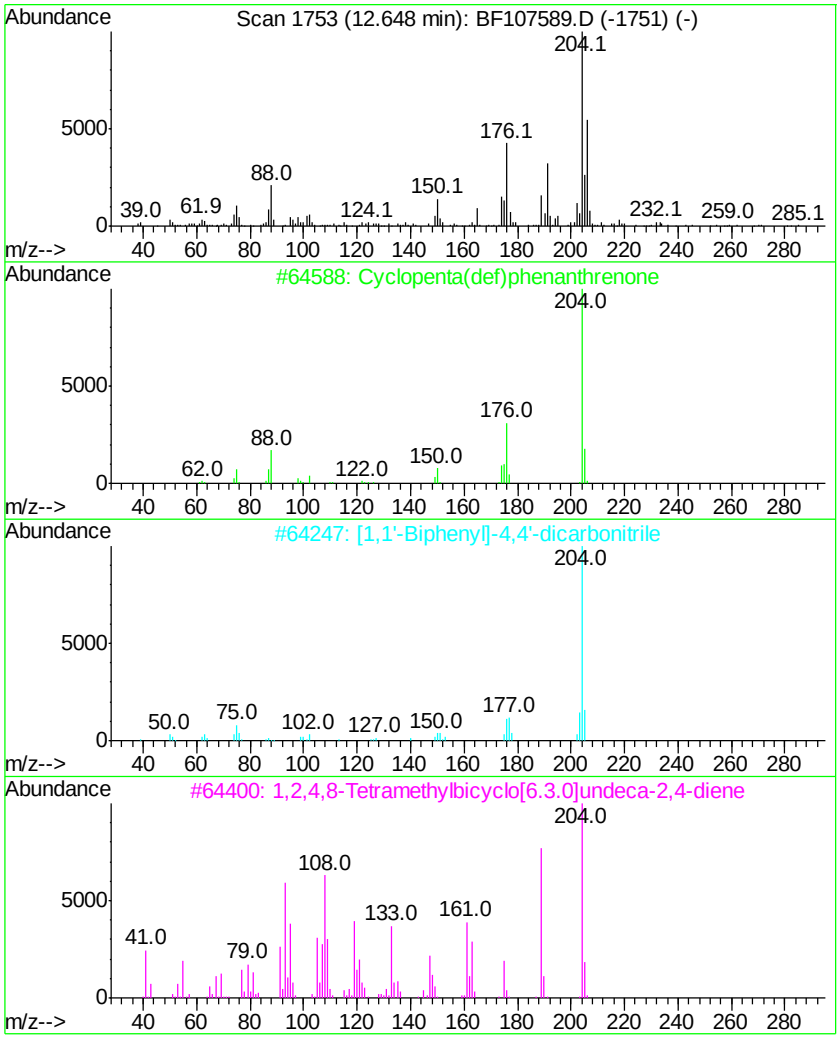
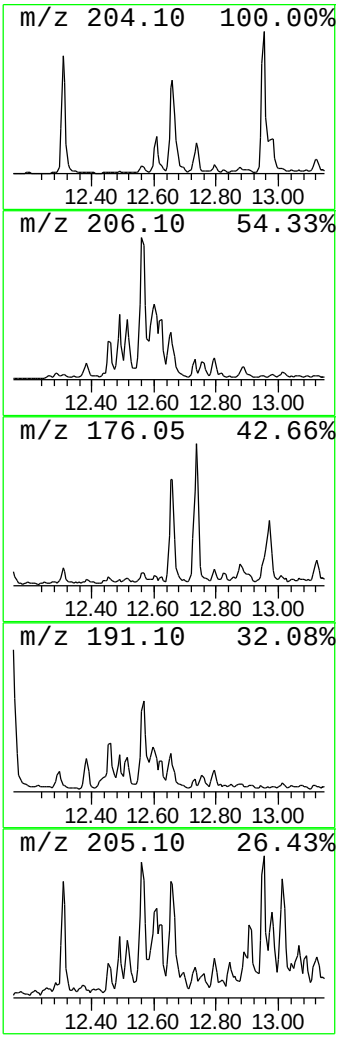
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.65	7.98 ng	850228	Phenanthrene-d10	11.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
4	Tetracyano-p-quinodimethane	204	C12H4N4	001518-16-7	47
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	47





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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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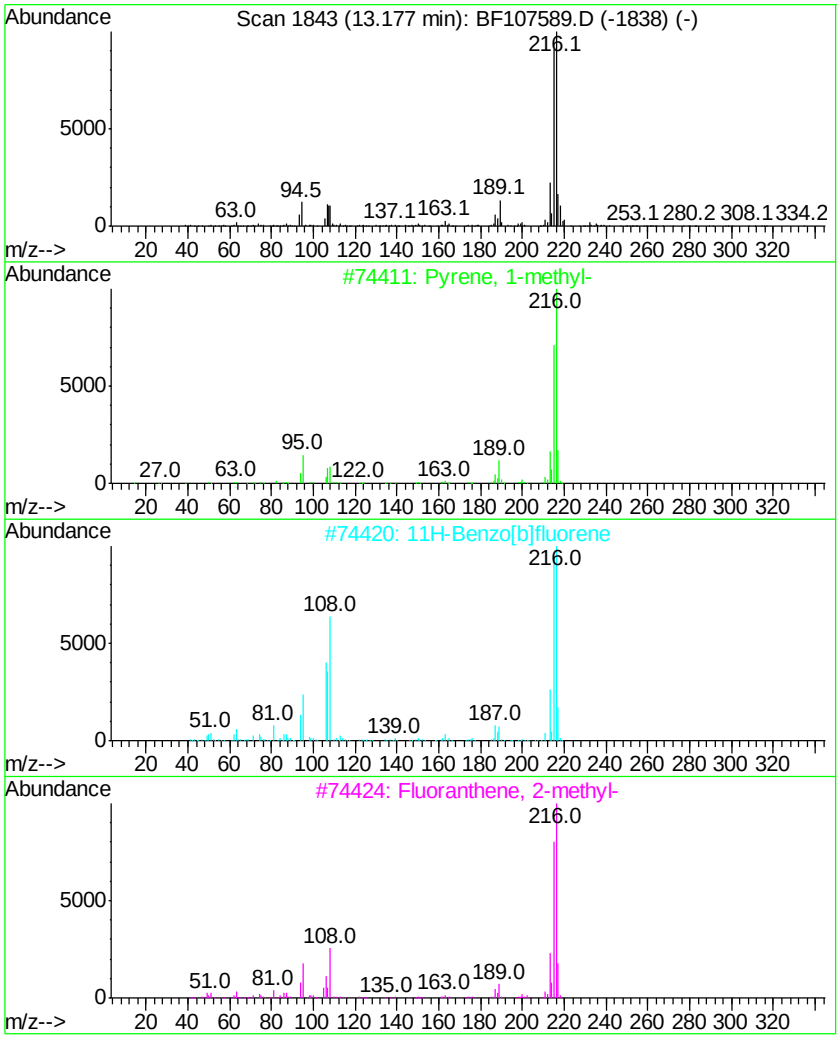
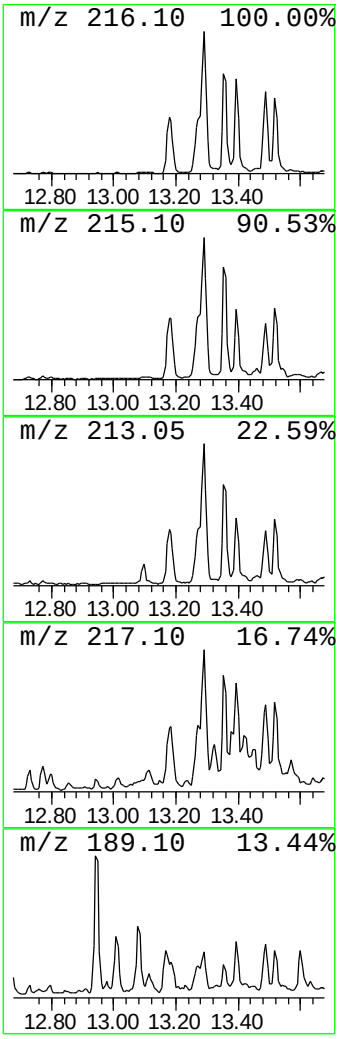
Peak Number 14 11H-Benzo[b]fluorene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.18	3.12 ng	1169530	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	83





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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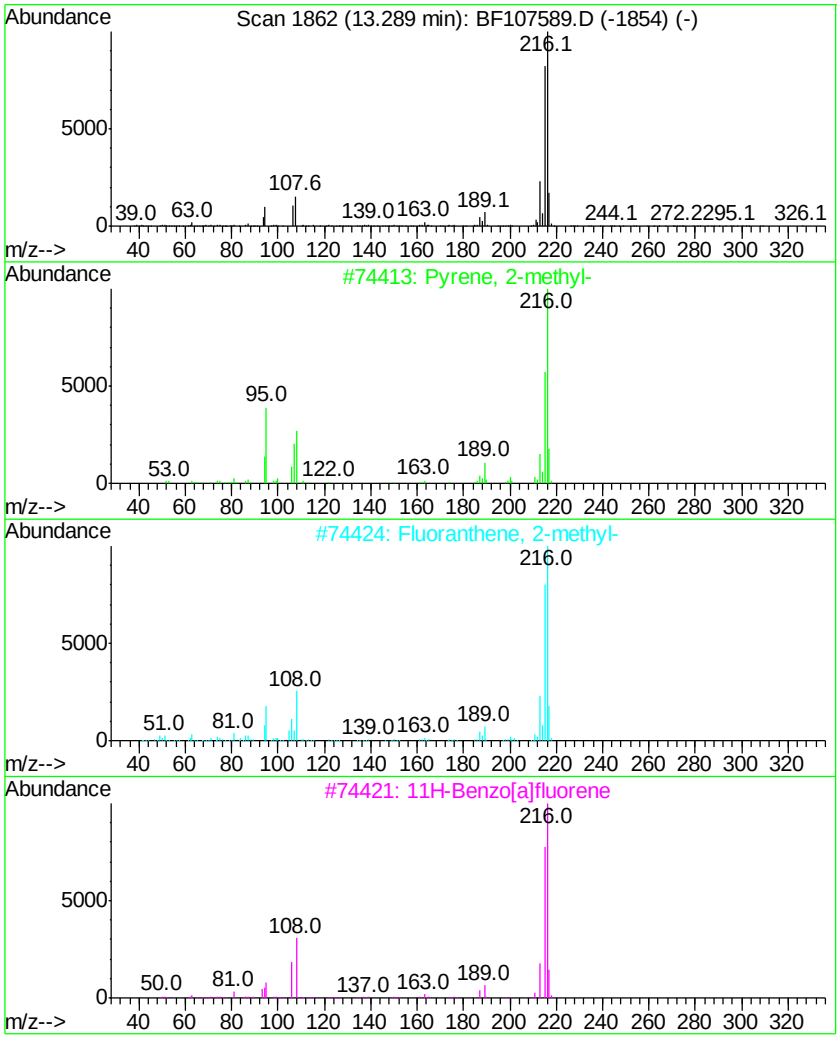
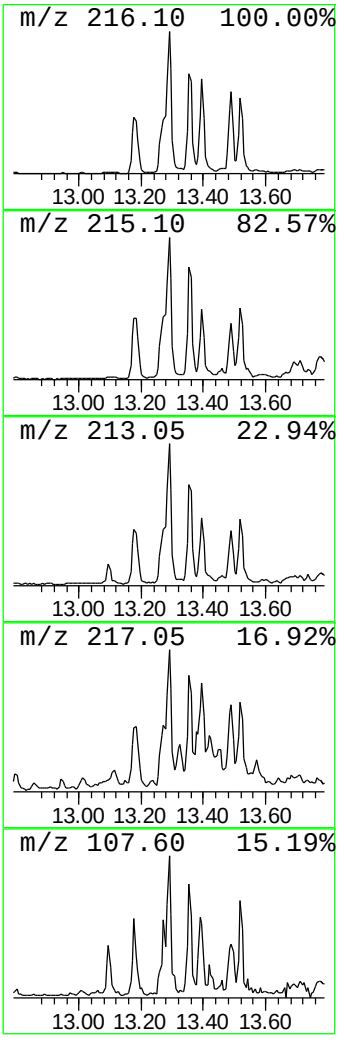
Peak Number 15 Pyrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.29	5.75 ng	2158520	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90





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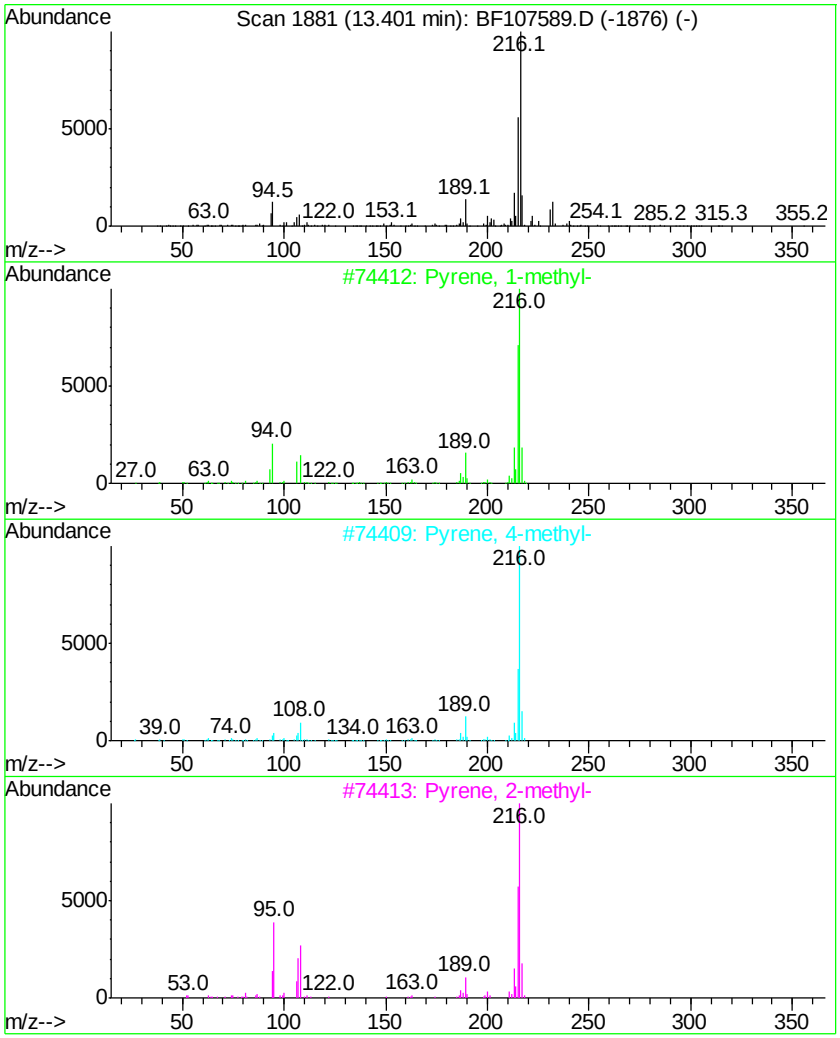
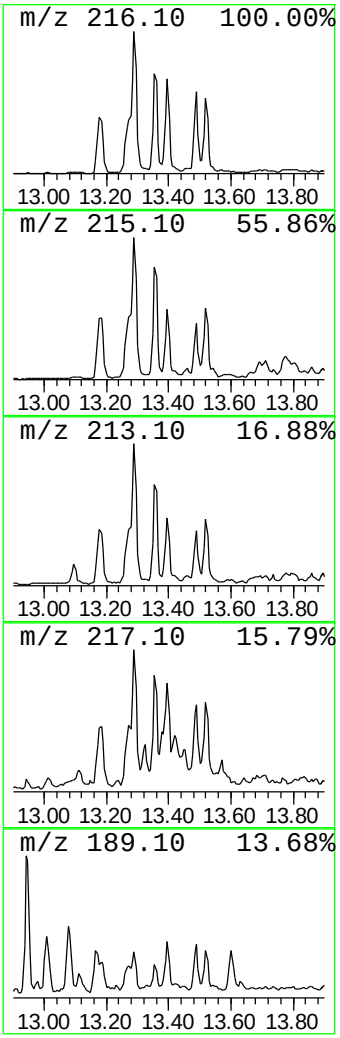
Peak Number 16 Pyrene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.40	3.23 ng	1213430	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	95
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89





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

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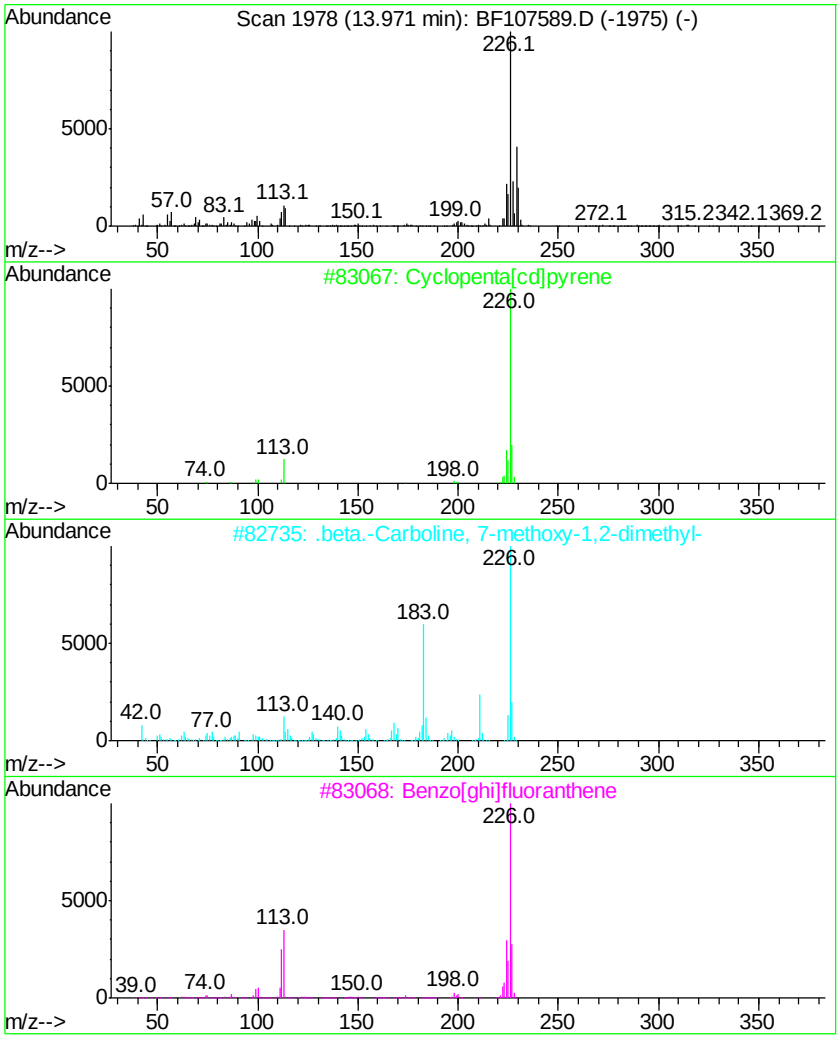
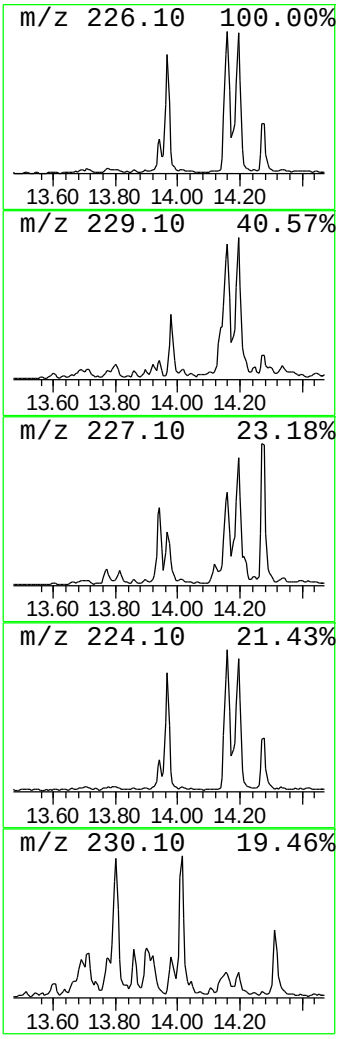
Peak Number 17 Cyclopenta[cd]pyrene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.97	3.84 ng	1441550	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	76
2	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	58
3	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	47
4	4-Naphthalen-2-yl-thiazol-2-ylamine	226	C13H10N2S	1000300-53-4	42
5	9H-Xanthen-9-one, 3-methoxy-	226	C14H10O3	003722-52-9	40





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Acq On : 23 Jul 2018 15:45
Operator : JU/SJ
Sample : J3827-03 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-01-071918

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

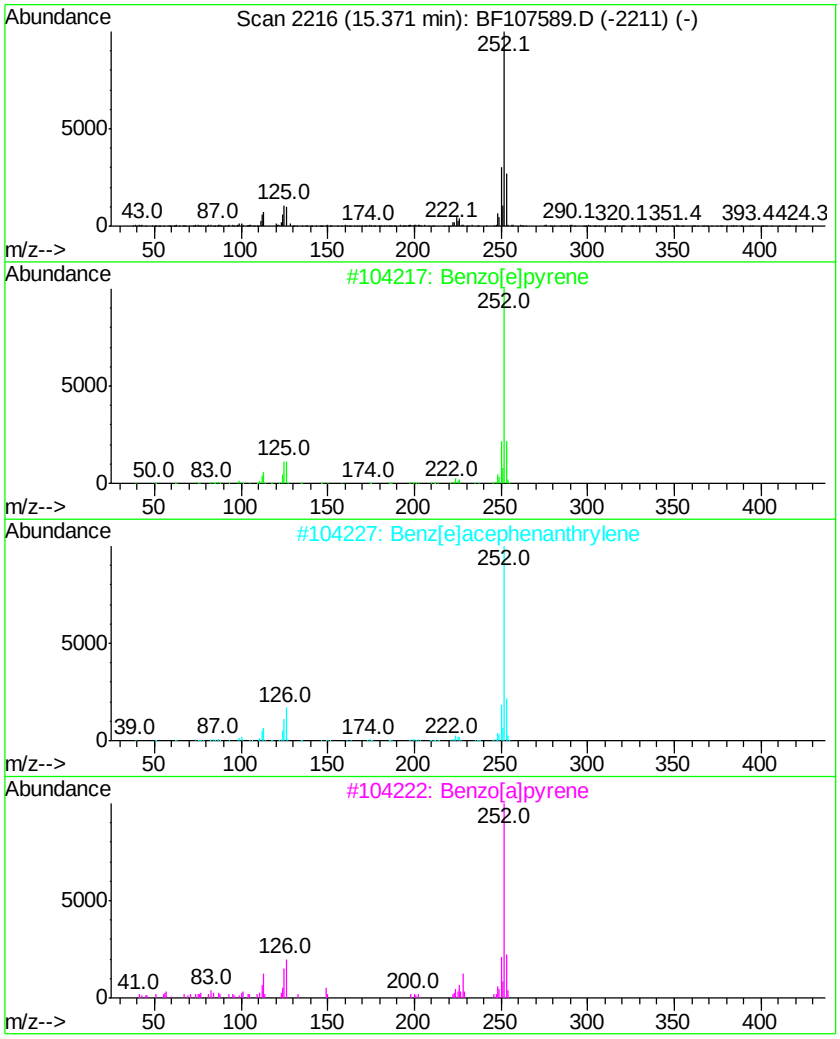
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

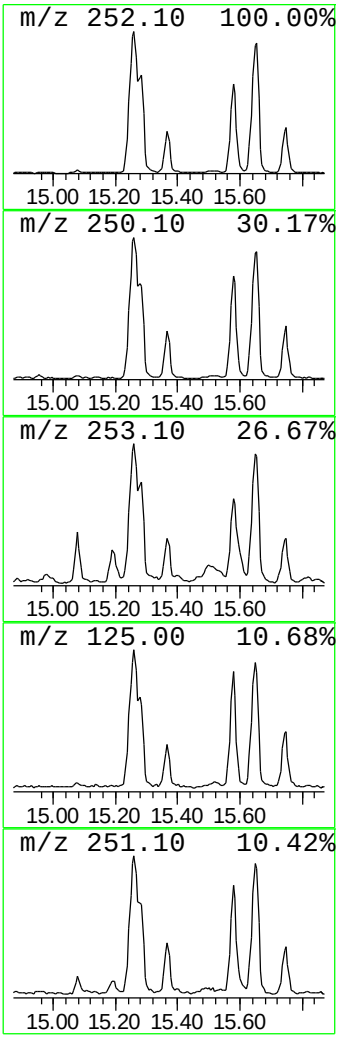
****

Peak Number 18 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.37	11.63 ng	1084110	Perylene-d12	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
3	Benzo[a]pyrene	252	C20H12	000050-32-8	91
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
5	Perylene	252	C20H12	000198-55-0	87





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072318\
Data File : BF107589.D
Acq On : 23 Jul 2018 15:45
Operator : JU/SJ
Sample : J3827-03 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-01-071918

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

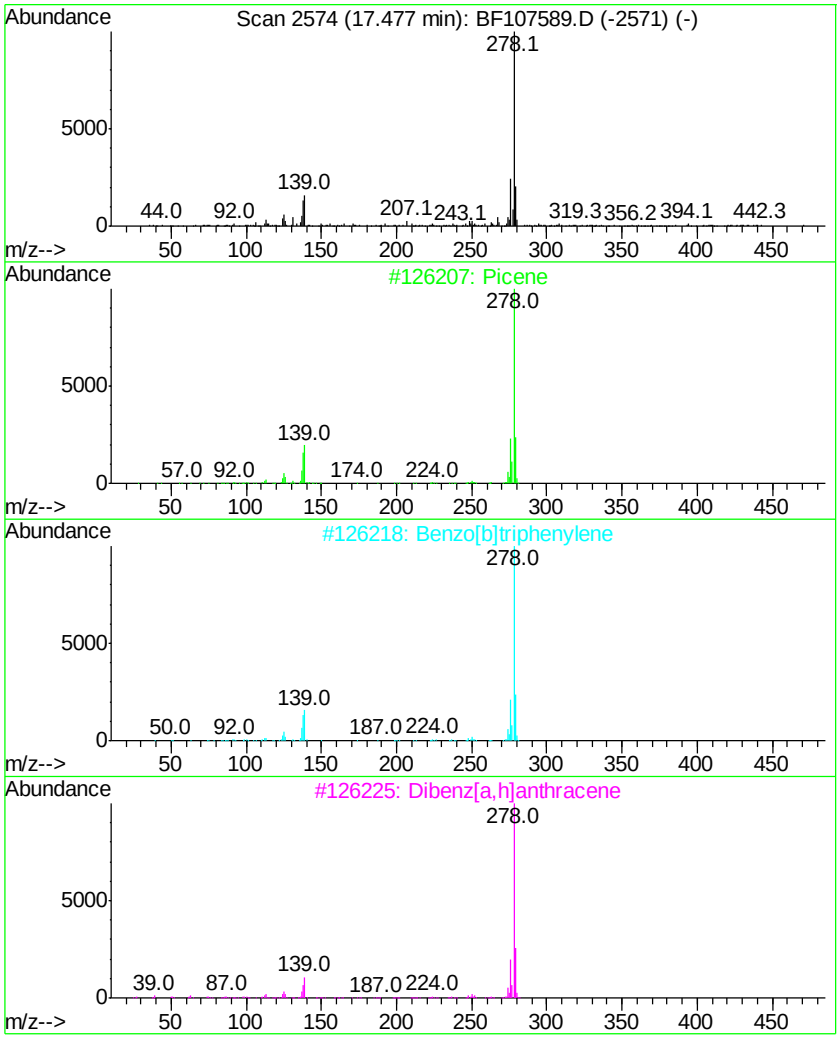
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

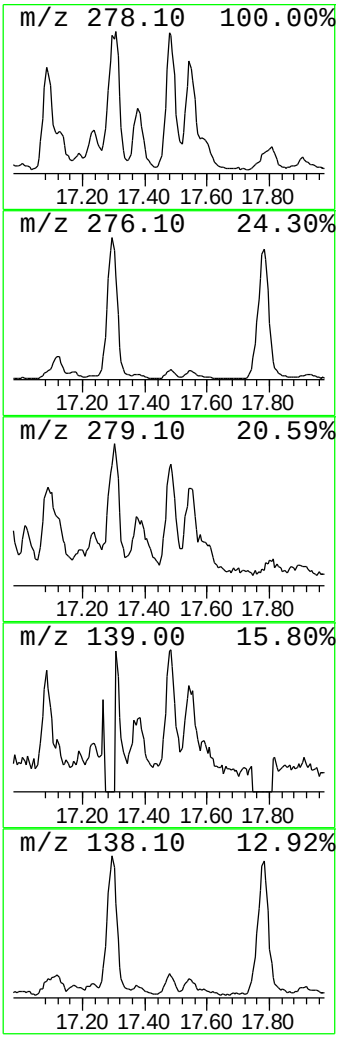
****

Peak Number 20 Picene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.48	3.98 ng	370657	Perylene-d12	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	96
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	96
4	Benzo[b]chrysene	278	C22H14	000214-17-5	90
5	Pentacene	278	C22H14	000135-48-8	76





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072318\
Data File : BF107589.D
Acq On : 23 Jul 2018 15:45
Operator : JU/SJ
Sample : J3827-03 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OR-01-071918

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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
2-Pentanone, 4-hy...	5.20	4.8	ng	464074	1	6.97	1933260	20.0
unknown6.74	6.74	31.9	ng	3088420	1	6.97	1933260	20.0
unknown11.27	11.27	3.0	ng	316527	4	11.51	2131960	20.0
Dibenzothiophene	11.41	3.0	ng	319812	4	11.51	2131960	20.0
Phenanthrene, 2-m...	12.01	7.5	ng	793721	4	11.51	2131960	20.0
Anthracene, 2-met...	12.04	8.8	ng	933902	4	11.51	2131960	20.0
Phenanthrene, 3-m...	12.09	5.2	ng	550841	4	11.51	2131960	20.0
4H-Cyclopenta[def...	12.13	22.3	ng	2374780	4	11.51	2131960	20.0
Naphthalene, 2-ph...	12.31	4.8	ng	516653	4	11.51	2131960	20.0
Phenanthrene, 2,5...	12.57	7.3	ng	776642	4	11.51	2131960	20.0
unknown12.60	12.60	5.2	ng	558339	4	11.51	2131960	20.0
Cyclopenta(def)ph...	12.65	8.0	ng	850228	4	11.51	2131960	20.0
11H-Benzo[b]fluorene	13.18	3.1	ng	1169530	5	14.17	7508920	20.0
Pyrene, 2-methyl-	13.29	5.8	ng	2158520	5	14.17	7508920	20.0
Pyrene, 1-methyl-	13.40	3.2	ng	1213430	5	14.17	7508920	20.0
Cyclopenta[cd]pyrene	13.97	3.8	ng	1441550	5	14.17	7508920	20.0
Benzo[e]pyrene	15.37	11.6	ng	1084110	6	15.71	1864200	20.0
Picene	17.48	4.0	ng	370657	6	15.71	1864200	20.0