LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107473.D
Acq On : 18 Jul 2018 13:20
Operator : JU/SJ
Sample : J4016-14 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB4-U-23-13

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-BF071618.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	5.213	485	489	495	rVB	173522	190643	10.13%	0.508%
2	5.607	551	556	559	rBV	1474249	1382177	73.44%	3.685%
3	6.260	665	667	675	rVB	50148	53896	2.86%	0.144%
4	6.601	721	725	728	rBV	1563181	1472012	78.22%	3.924%
5	6.754	746	751	754	rBV	1633642	1525480	81.06%	4.067%
6	6.983	786	790	793	rBV	1181503	946000	50.27%	2.522%
7	7.136	812	816	820	rBV	1267641	1135905	60.36%	3.028%
8	7.542	879	885	888	rBV	1119614	943328	50.13%	2.515%
9	8.266	1004	1008	1016	rBV	1346123	1232017	65.47%	3.285%
10	9.342	1182	1191	1194	rBV	2010950	1834855	97.50%	4.892%
11	9.613	1229	1237	1240	rBV4	35890	57002	3.03%	0.152%
12	9.683	1246	1249	1251	rBV2	54360	55651	2.96%	0.148%
13	9.730	1254	1257	1260	rVB	265755	214341	11.39%	0.571%
14	9.801	1265	1269	1277	rBV3	32389	55817	2.97%	0.149%
15	9.889	1281	1284	1287	rVV3	58586	58285	3.10%	0.155%
16	10.030	1303	1308	1311	rBV	1538985	1424371	75.69%	3.797%
17	10.060	1311	1313	1316	rVB	139376	108107	5.74%	0.288%
18	10.124	1320	1324	1328	rBV4	28788	41983	2.23%	0.112%
19	10.183	1328	1334	1336	rBV3	29985	44031	2.34%	0.117%
20	10.230	1336	1342	1345	rVV2	85691	97892	5.20%	0.261%
21	10.266	1345	1348	1351	rVB2	53341	44428	2.36%	0.118%
22	10.442	1372	1378	1381	rBV6	57565	96804	5.14%	0.258%
23	10.577	1397	1401	1405	rVB	141253	136325	7.24%	0.363%
24	10.642	1410	1412	1414	rVV	54288	58108	3.09%	0.155%
25	10.660	1414	1415	1418	rVV3	60723	45286	2.41%	0.121%
26	10.713	1422	1424	1426	rVV2	40497	50854	2.70%	0.136%
27	10.730	1426	1427	1433	rVB2	65143	58988	3.13%	0.157%
28	10.819	1438	1442	1446	rVB	1054813	975312	51.82%	2.600%
29	10.918	1455	1459	1461	rBV4	51690	66025	3.51%	0.176%
30	10.936	1461	1462	1468	rVB3	51190	47298	2.51%	0.126%
31	11.107	1488	1491	1492	rVV2	67840	66378	3.53%	0.177%
32	11.124	1492	1494	1496	rVV3	102198	87036	4.62%	0.232%
33	11.154	1496	1499	1502	rVV4	78164	97351	5.17%	0.260%
34	11.183	1502	1504	1506	rVV3	39198	47758	2.54%	0.127%

LSC Area Percent Report

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Acq On : 18 Jul 2018 13:20
Operator : JU/SJ
Sample : J4016-14 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB4-U-23-13

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-BF071618.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.207	1506	1508	1511	rVB4	62174	58446	3.11%	0.156%
36	11.248	1511	1515	1517	rBV5	54913	84572	4.49%	0.225%
37	11.271	1517	1519	1524	rVV5	76804	84232	4.48%	0.225%
38	11.324	1524	1528	1531	rVV	101615	111461	5.92%	0.297%
39	11.366	1531	1535	1537	rVV4	88157	118903	6.32%	0.317%
40	11.418	1541	1544	1549	rVB	113452	120224	6.39%	0.321%
41	11.524	1557	1562	1564	rBV	1578246	1635342	86.90%	4.360%
42	11.548	1564	1566	1569	rVV	1774372	1359486	72.24%	3.624%
43	11.595	1571	1574	1577	rVV	362227	307924	16.36%	0.821%
44	11.618	1577	1578	1582	rVV2	62516	77469	4.12%	0.207%
45	11.748	1597	1600	1603	rVV3	84777	100072	5.32%	0.267%
46	11.813	1609	1611	1614	rVV	57209	48236	2.56%	0.129%
47	11.848	1614	1617	1625	rVB3	110604	120686	6.41%	0.322%
48	11.930	1629	1631	1636	rVB2	51955	52613	2.80%	0.140%
49	12.024	1643	1647	1649	rBV	463689	427770	22.73%	1.140%
50	12.048	1649	1651	1655	rVB	563621	514342	27.33%	1.371%
51	12.095	1655	1659	1662	rBV	206408	206680	10.98%	0.551%
52	12.136	1662	1666	1668	rBV2	530383	625226	33.22%	1.667%
53	12.160	1668	1670	1673	rVB	358062	302722	16.09%	0.807%
54	12.201	1674	1677	1679	rBV3	56703	56719	3.01%	0.151%
55	12.254	1684	1686	1689	rBV3	55195	47204	2.51%	0.126%
56	12.318	1693	1697	1699	rVV	252612	223699	11.89%	0.596%
57	12.342	1699	1701	1705	rVB3	196960	170969	9.08%	0.456%
58	12.395	1705	1710	1713	rVB	69512	73934	3.93%	0.197%
59	12.465	1717	1722	1725	rBV3	171689	178178	9.47%	0.475%
60	12.495	1725	1727	1729	rVB2	83203	59895	3.18%	0.160%
61	12.524	1729	1732	1734	rVB2	101090	94298	5.01%	0.251%
62	12.571	1737	1740	1744	rBV	331566	391555	20.81%	1.044%
63	12.613	1744	1747	1749	rVV2	135399	169451	9.00%	0.452%
64	12.660	1752	1755	1760	rBV3	227787	280506	14.91%	0.748%
65	12.742	1765	1769	1772	rVB	1661747	1530960	81.35%	4.082%
66	12.777	1772	1775	1777	rBV2	81170	72609	3.86%	0.194%
67	12.801	1777	1779	1782	rVB4	96020	74759	3.97%	0.199%
68	12.865	1786	1790	1792	rBV5	83041	98717	5.25%	0.263%
69	12.895	1792	1795	1797	rBV2	93374	104305	5.54%	0.278%
70	12.971	1801	1808	1813	rBV	1731541	1881938	100.00%	5.017%
71	13.018	1813	1816	1820	rVB3	124456	151424	8.05%	0.404%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J4016-14 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB4-U-23-13

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-BF071618.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.107	1824	1831	1834	rBV	1822052	1788288	95.02%	4.768%
73	13.189	1839	1845	1851	rBV5	178057	338143	17.97%	0.902%
74	13.271	1856	1859	1860	rVV3	129639	127238	6.76%	0.339%
75	13.295	1861	1863	1866	rVB	266811	200025	10.63%	0.533%
76	13.365	1871	1875	1877	rBV	162333	170398	9.05%	0.454%
77	13.401	1877	1881	1883	rBV2	254528	224082	11.91%	0.597%
78	13.495	1894	1897	1899	rBV	176343	148332	7.88%	0.395%
79	13.524	1899	1902	1905	rBV	185169	172426	9.16%	0.460%
80	13.689	1928	1930	1935	rBV6	37608	56670	3.01%	0.151%
81	13.801	1942	1949	1953	rBV3	195680	331991	17.64%	0.885%
82	13.918	1964	1969	1971	rBV4	145668	213384	11.34%	0.569%
83	13.948	1971	1974	1976	rVV	154535	154459	8.21%	0.412%
84	13.983	1976	1980	1982	rVV3	143065	209536	11.13%	0.559%
85	14.012	1982	1985	1989	rVB	186076	194949	10.36%	0.520%
86	14.165	2007	2011	2014	rBV2	1189331	1699968	90.33%	4.532%
87	14.195	2014	2016	2021	rVB	690895	630334	33.49%	1.681%
88	14.277	2028	2030	2033	rBV3	75969	87816	4.67%	0.234%
89	14.518	2069	2071	2072	rBV2	60266	47863	2.54%	0.128%
90	14.554	2074	2077	2080	rVV	236600	270275	14.36%	0.721%
91	14.589	2081	2083	2086	rVB3	155694	141401	7.51%	0.377%
92	14.683	2096	2099	2101	rBV4	101279	111549	5.93%	0.297%
93	15.248	2191	2195	2198	rBV	445930	665445	35.36%	1.774%
94	15.359	2212	2214	2218	rVB2	105360	122539	6.51%	0.327%
95	15.459	2227	2231	2233	rBV5	74570	101375	5.39%	0.270%
96	15.577	2247	2251	2256	rBV2	281401	396373	21.06%	1.057%
97	15.642	2258	2262	2268	rVB	451530	539739	28.68%	1.439%
98	15.712	2269	2274	2277	rBV	748648	1073561	57.05%	2.862%
99	17.283	2537	2541	2550	rVB2	174683	320660	17.04%	0.855%
100	17.759	2618	2622	2628	rVB2	109435	200340	10.65%	0.534%

Sum of corrected areas: 37508429

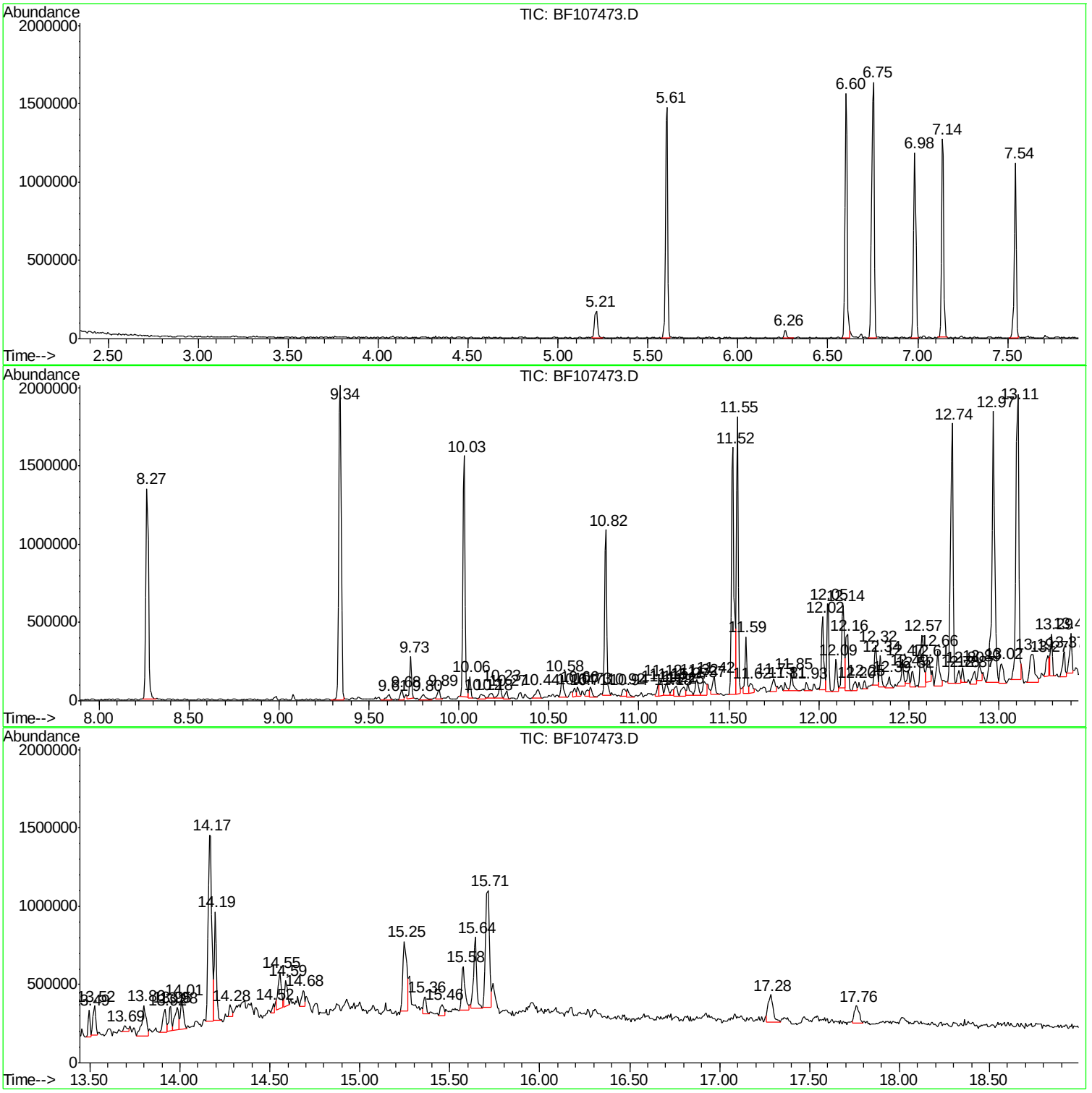
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107473.D
Acq On : 18 Jul 2018 13:20
Operator : JU/SJ
Sample : J4016-14 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB4-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.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\BF071818\
Data File : BF107473.D
Acq On : 18 Jul 2018 13:20
Operator : JU/SJ
Sample : J4016-14 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB4-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

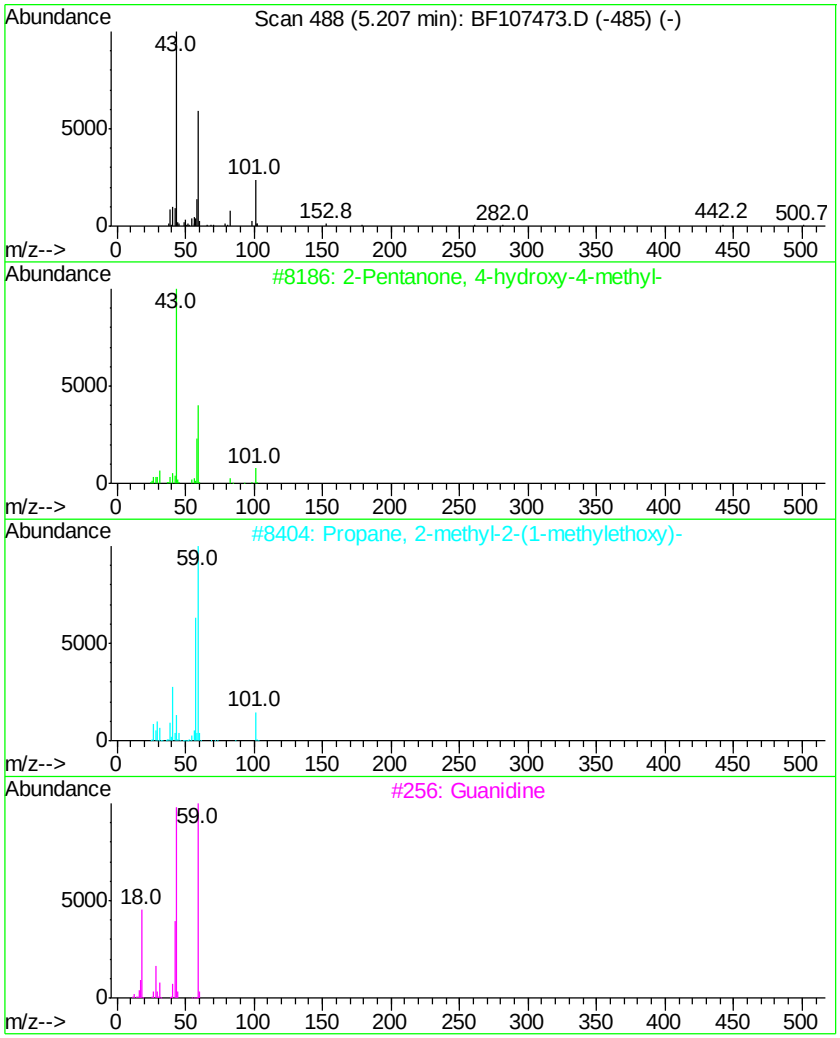
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

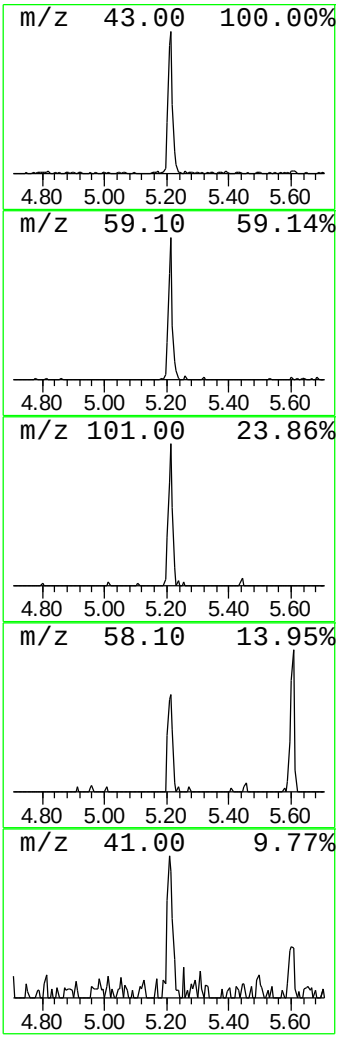
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.21	4.03 ng	190643	1,4-Dichlorobenzene-d4	6.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	47
3	Guanidine	59	CH5N3	000113-00-8	43
4	3-Heptanol, 4-methyl-	130	C8H18O	014979-39-6	37
5	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	37





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107473.D
Acq On : 18 Jul 2018 13:20
Operator : JU/SJ
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Misc :
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Instrument : BNA_F
ClientSampleId : SB4-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

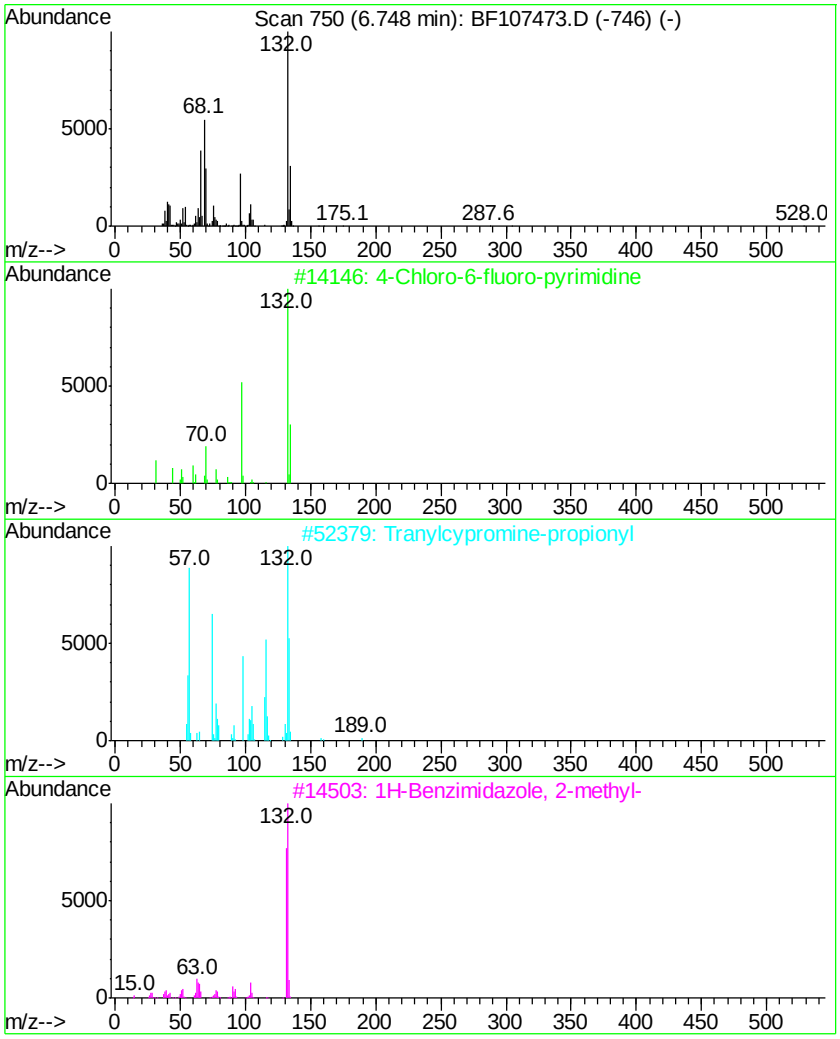
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

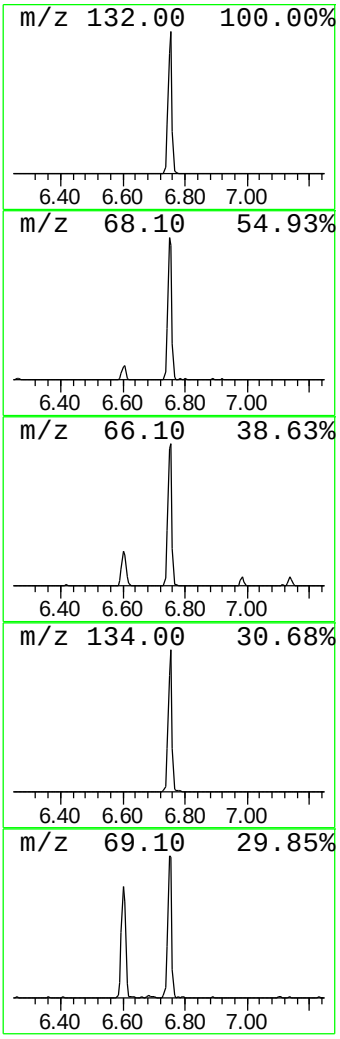
****

Peak Number 2 unknown6.75 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.75	32.25 ng	1525480	1,4-Dichlorobenzene-d4	6.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	22
3	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	12





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Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
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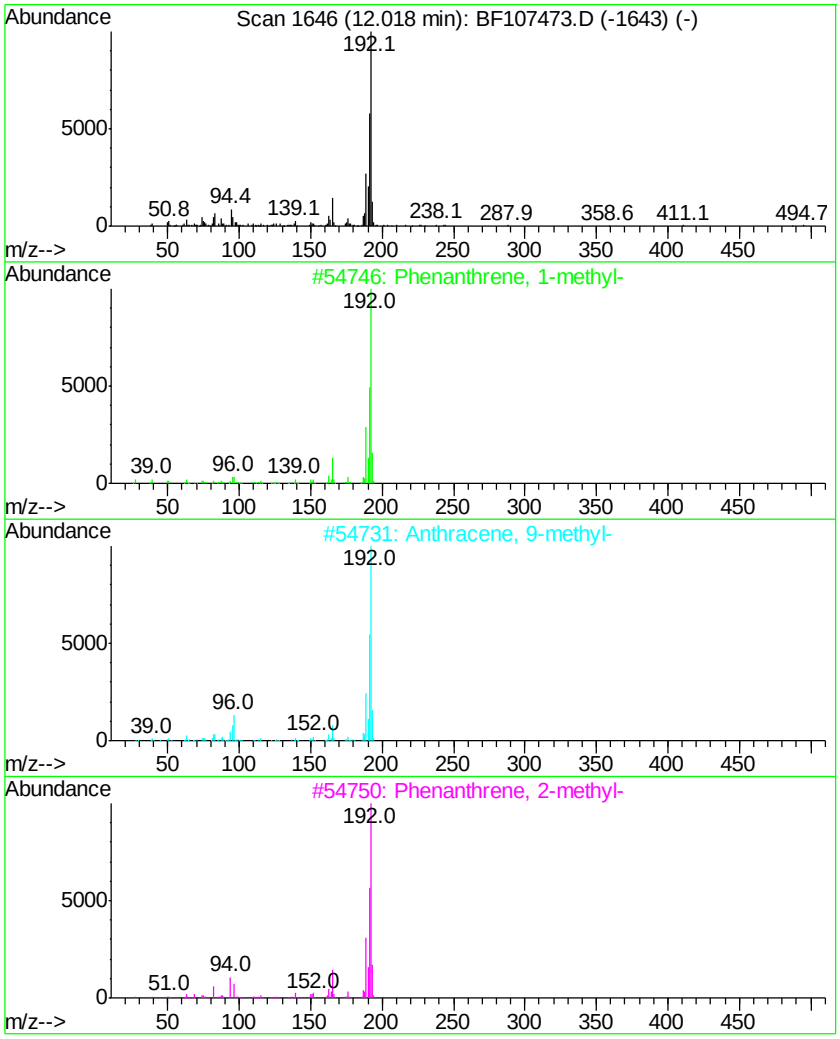
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

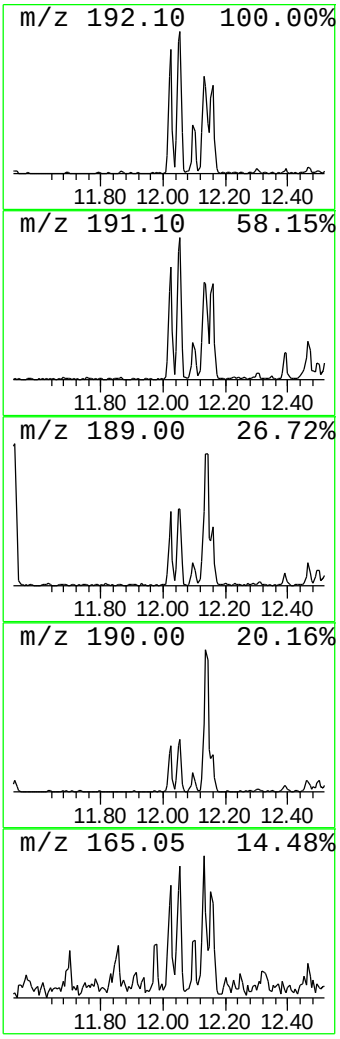
****

Peak Number 4 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	5.23 ng	427770	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107473.D
Acq On : 18 Jul 2018 13:20
Operator : JU/SJ
Sample : J4016-14 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB4-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

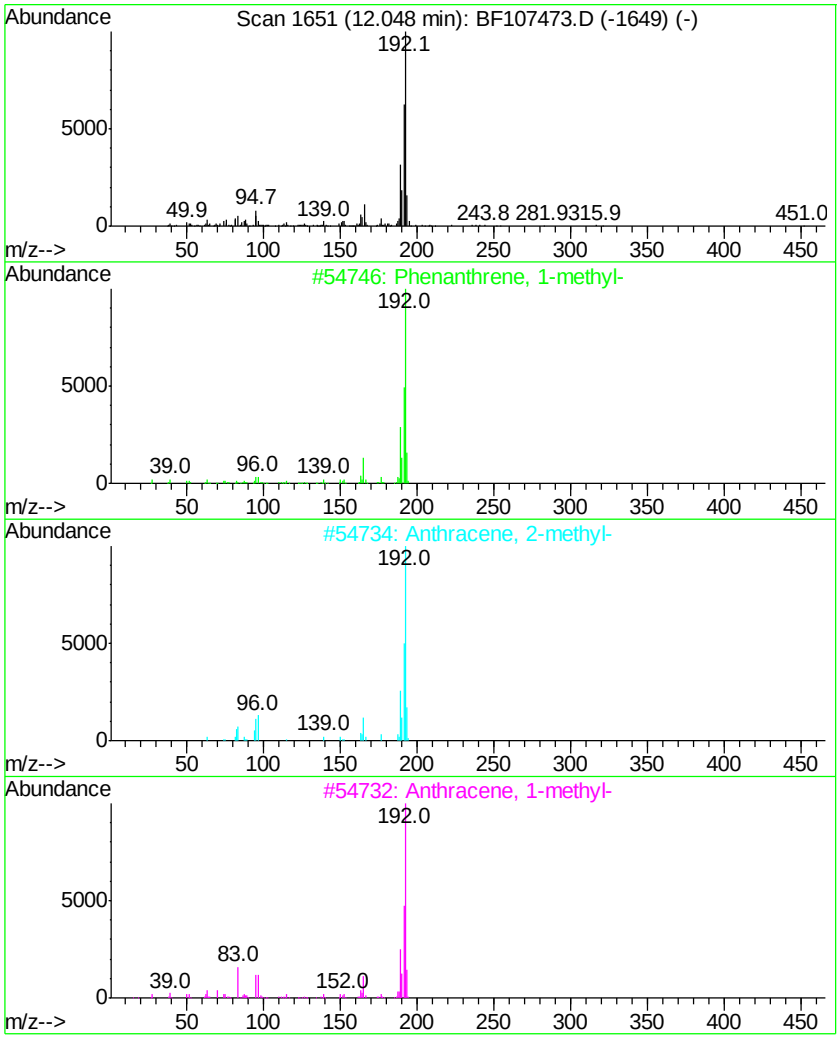
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

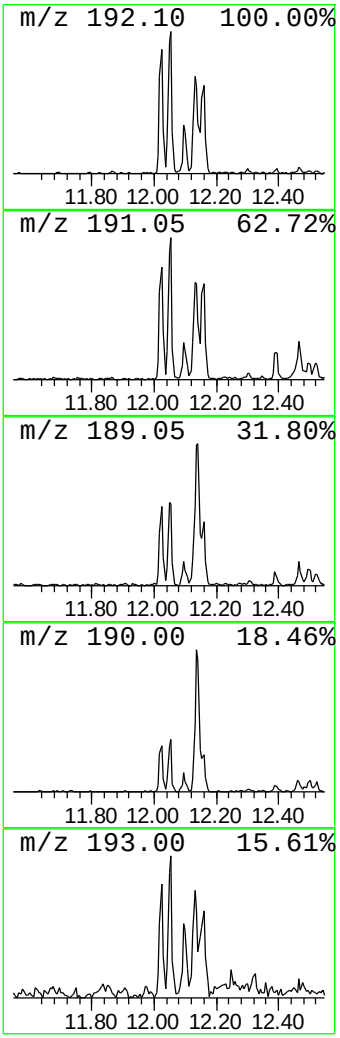
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	6.29 ng	514342	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107473.D
Acq On : 18 Jul 2018 13:20
Operator : JU/SJ
Sample : J4016-14 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB4-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

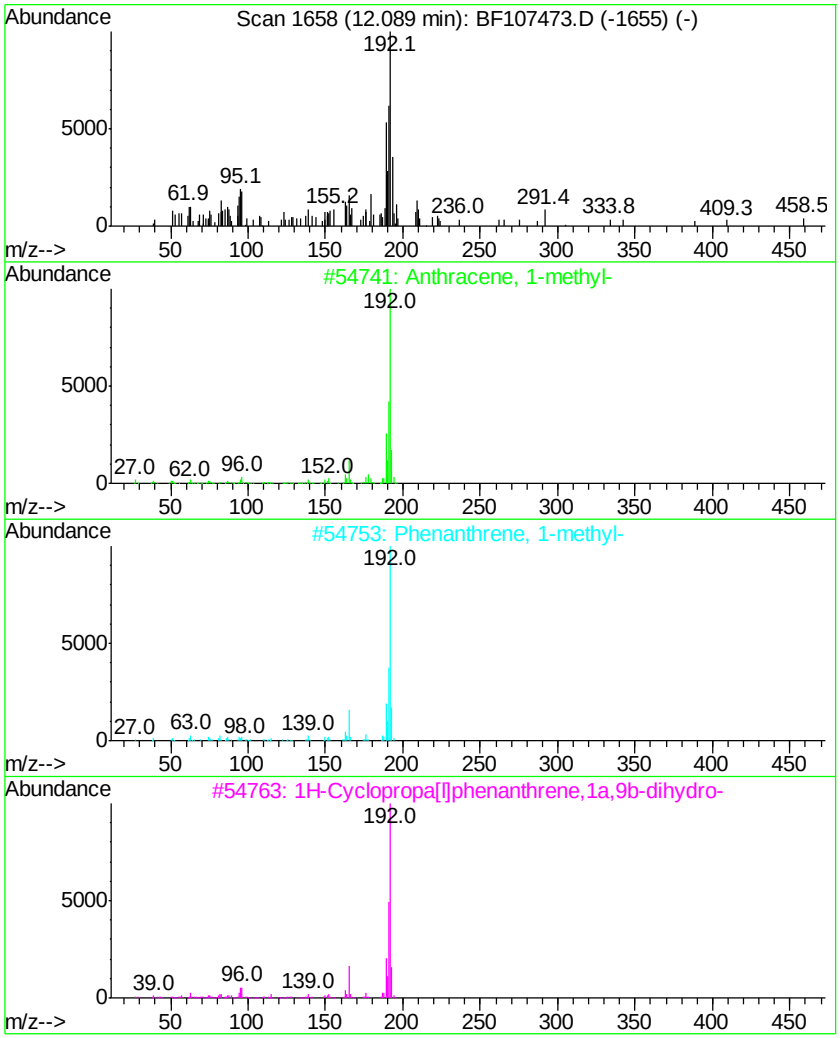
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

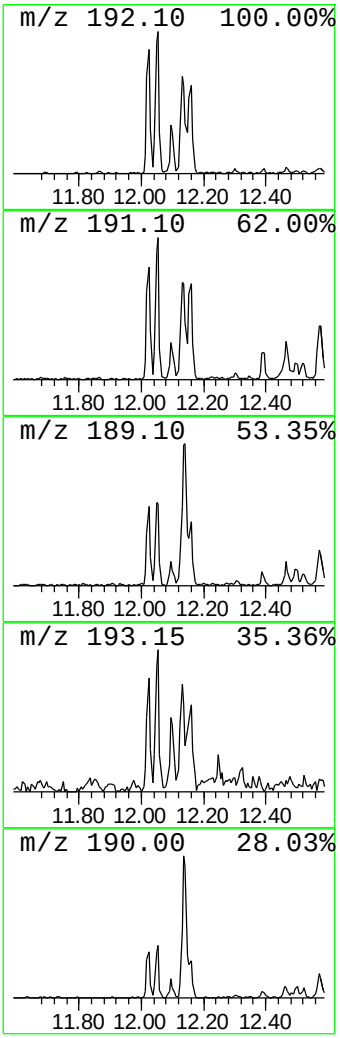
****

Peak Number 6 Anthracene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	2.53 ng	206680	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	86
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	76





Library Search Compound Report

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Data File : BF107473.D
Acq On : 18 Jul 2018 13:20
Operator : JU/SJ
Sample : J4016-14 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB4-U-23-13

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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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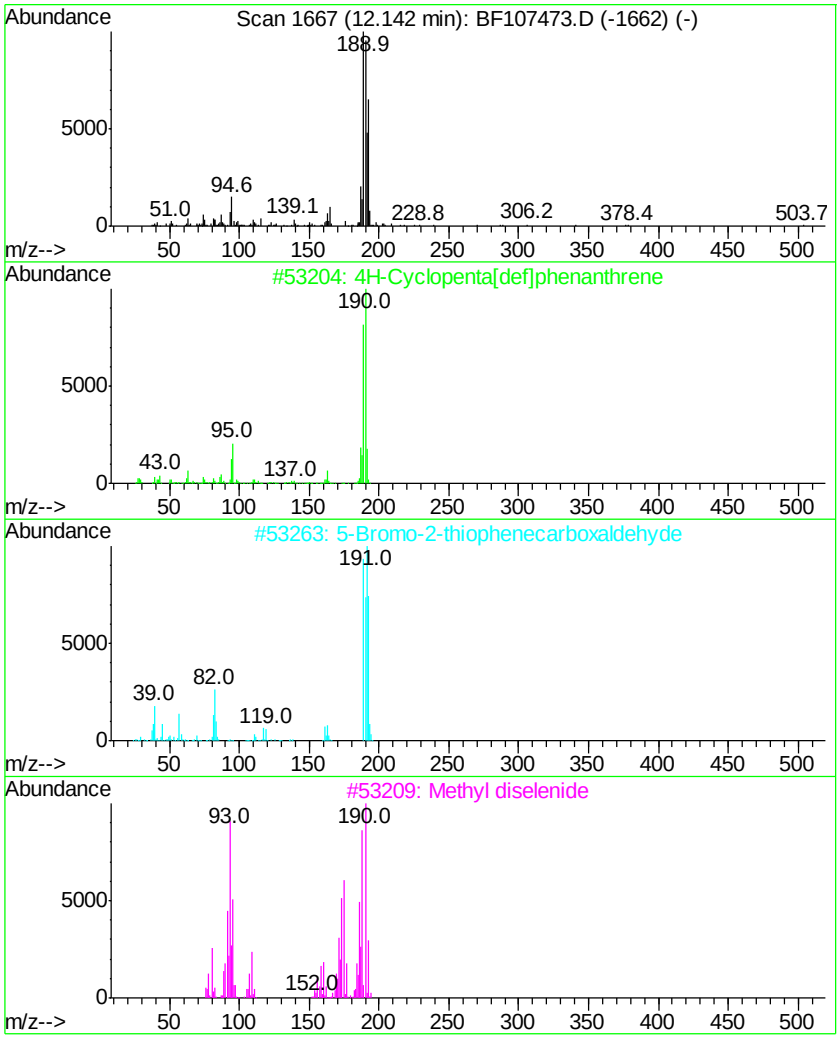
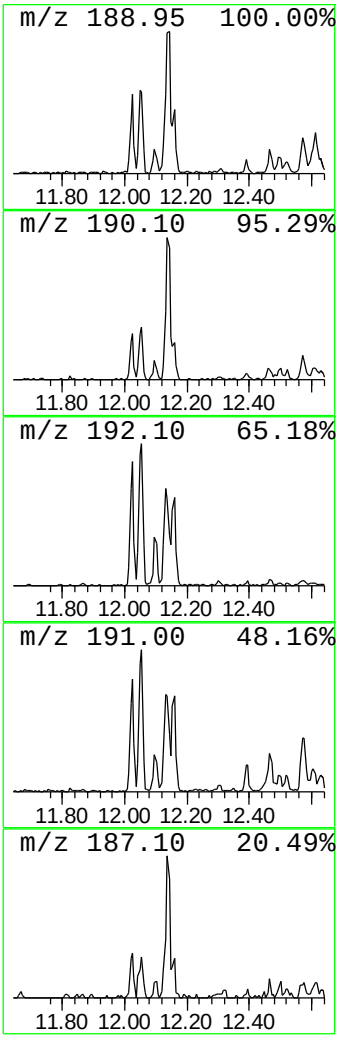
Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	7.65 ng	625226	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
2	5-Bromo-2-thiophenecarboxaldehyde	190	C5H3BrOS	004701-17-1	53
3	Methyl diselenide	190	C2H6Se2	007101-31-7	41
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	38
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	38





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Misc :
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Instrument : BNA_F
ClientSampleId : SB4-U-23-13

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

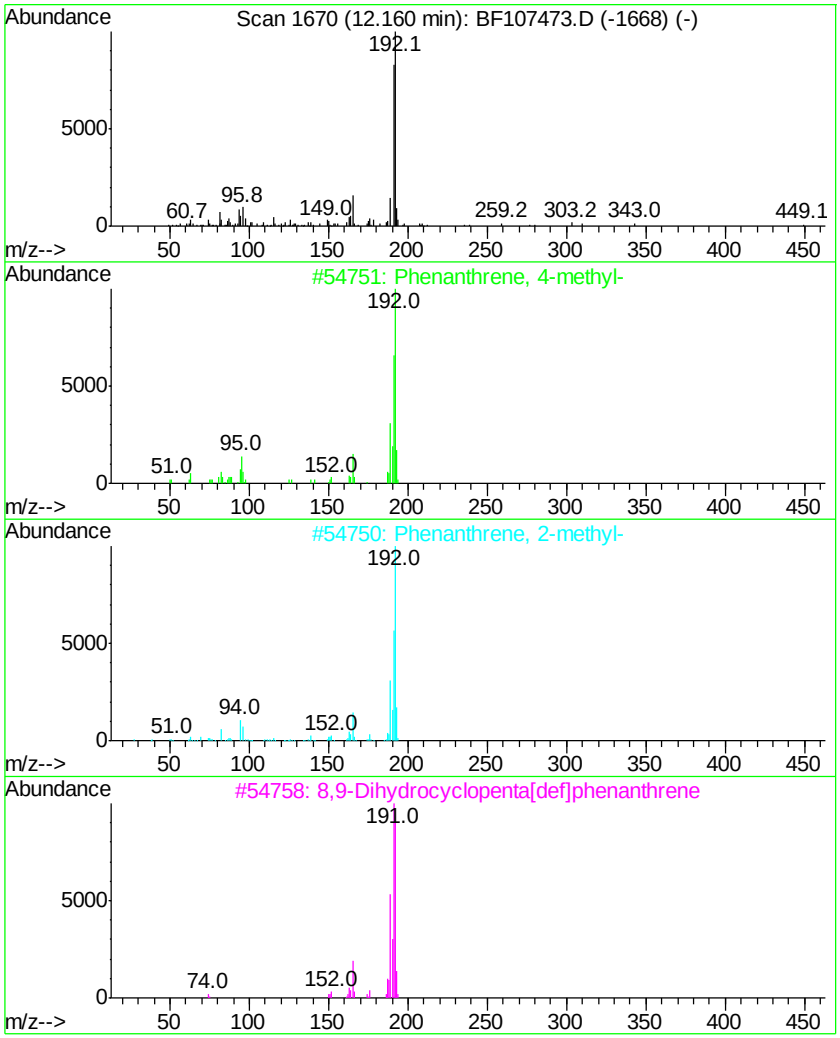
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

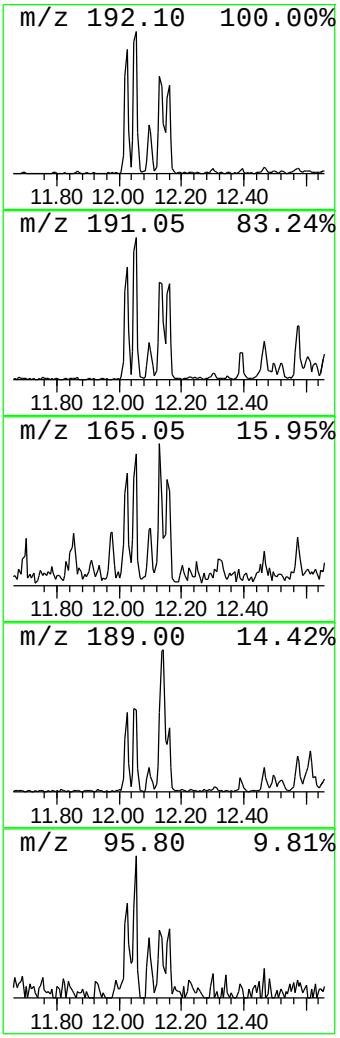
****

Peak Number 8 Phenanthrene, 4-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	3.70 ng	302722	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	83
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	80
3	8,9-Dihydrocyclopenta[def]phenan...	192	C15H12	027410-55-5	76
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	72
5	Benzene, 1,1'-(2-cyclopropen-1-y...	192	C15H12	022825-21-4	72





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Misc :
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Instrument : BNA_F
ClientSampleId : SB4-U-23-13

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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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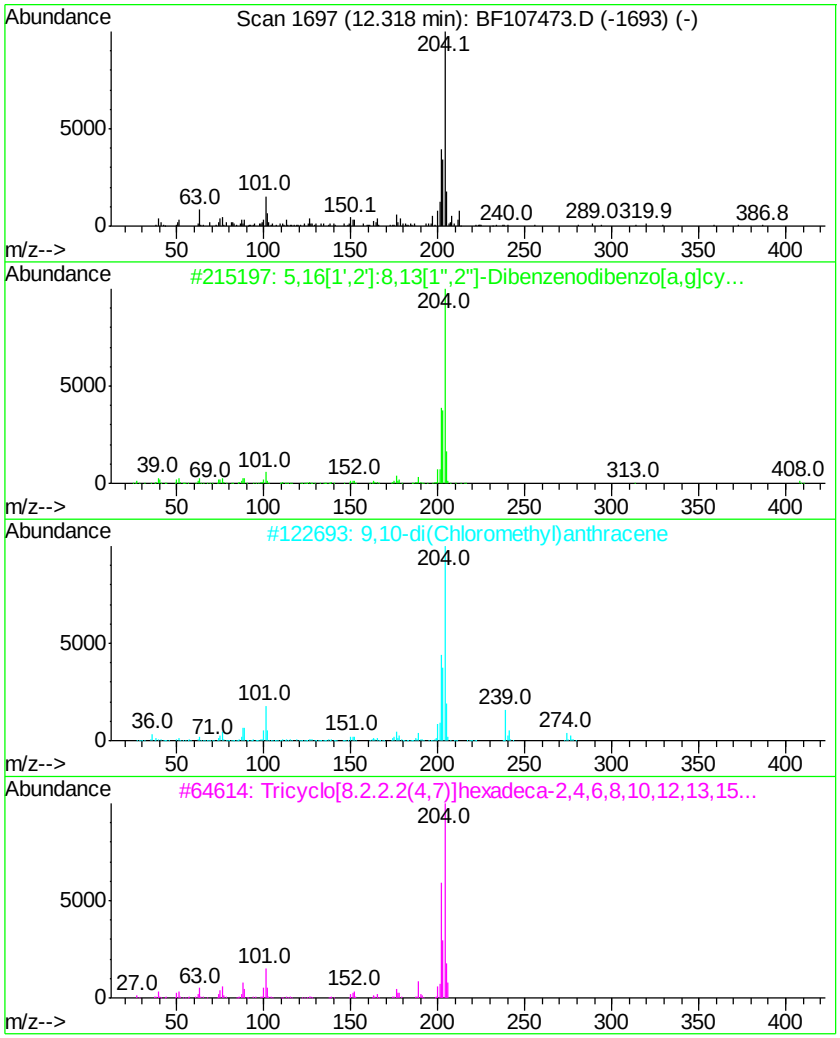
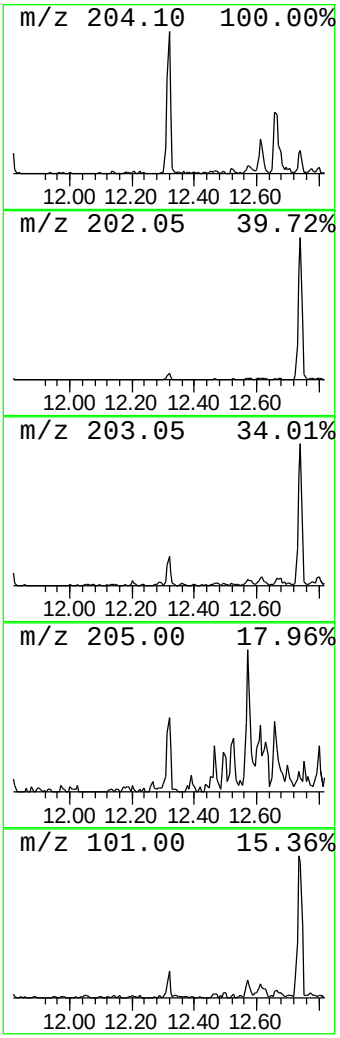
Peak Number 9 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.32	2.74 ng	223699	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
2	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	78
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58





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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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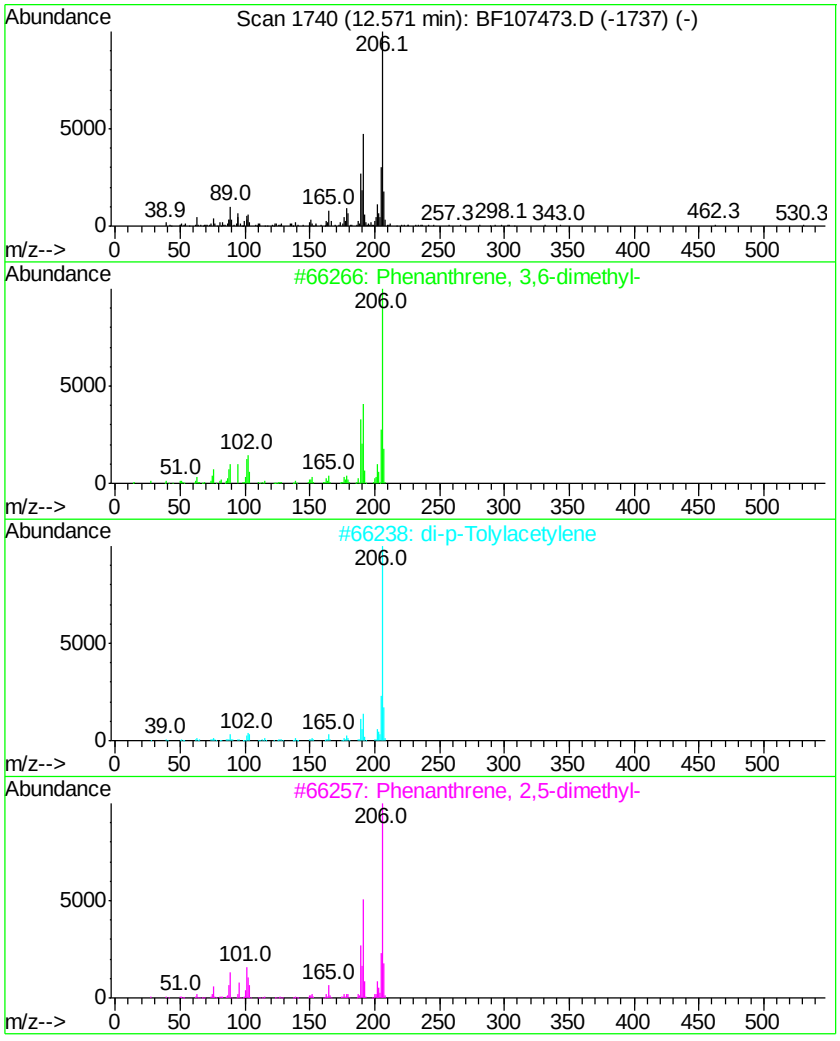
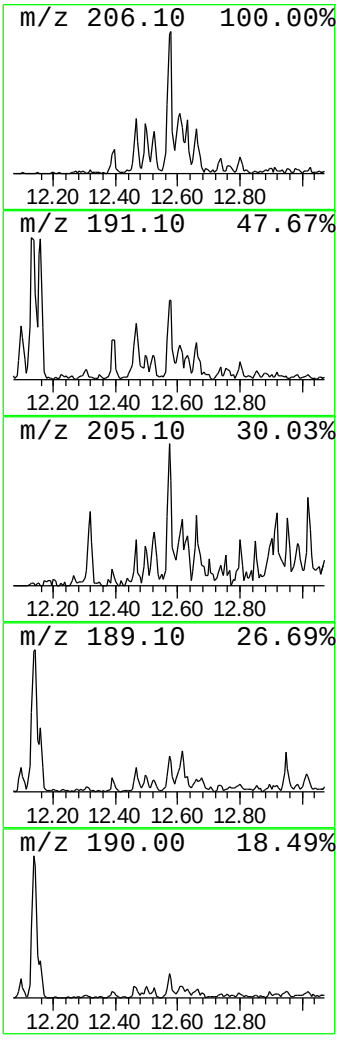
Peak Number 10 Phenanthrene, 3,6-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	4.79 ng	391555	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
4	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	90
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	87





Library Search Compound Report

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Sample : J4016-14 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
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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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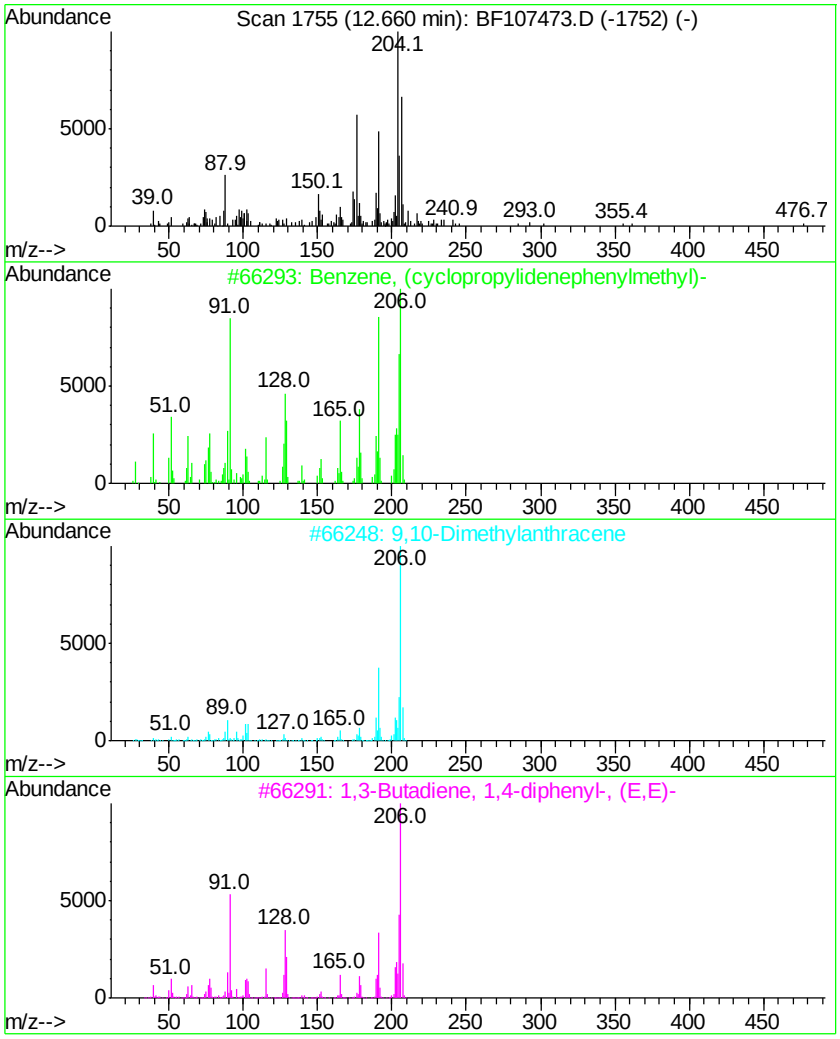
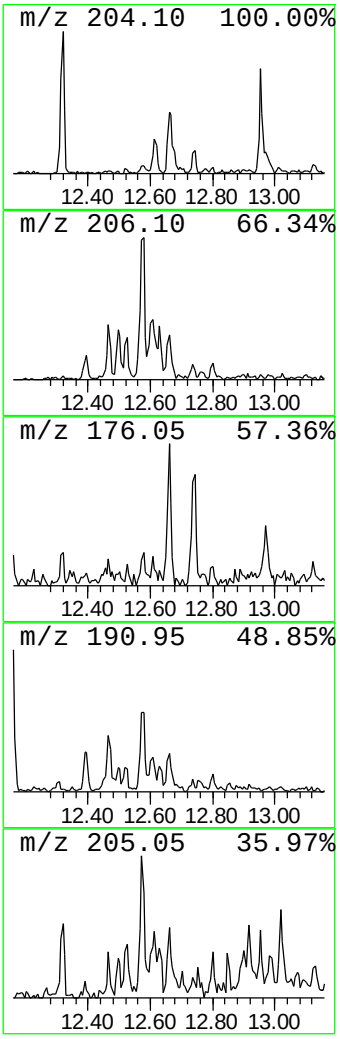
Peak Number 11 Benzene, (cyclopropylidenep... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.66	3.43 ng	280506	Phenanthrene-d10	11.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (cyclopropylidenephenyl...	206	C16H14	007632-57-7	86
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	55
3	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	51
4	1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	51
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	49





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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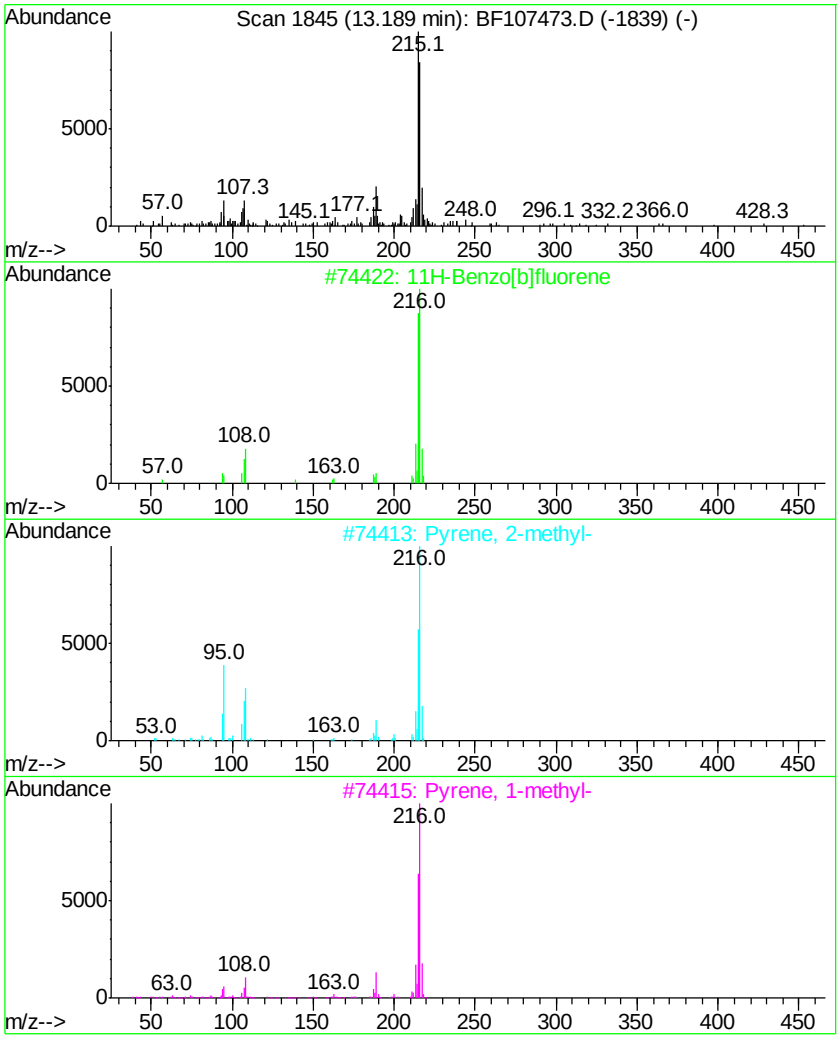
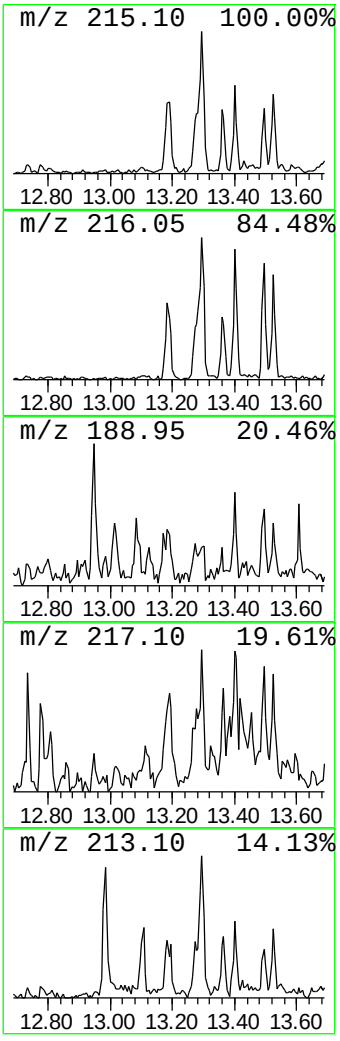
Peak Number 12 11H-Benzo[b]fluorene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.19	3.98 ng	338143	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	76
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	76
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	64
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	52





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Operator : JU/SJ
Sample : J4016-14 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB4-U-23-13

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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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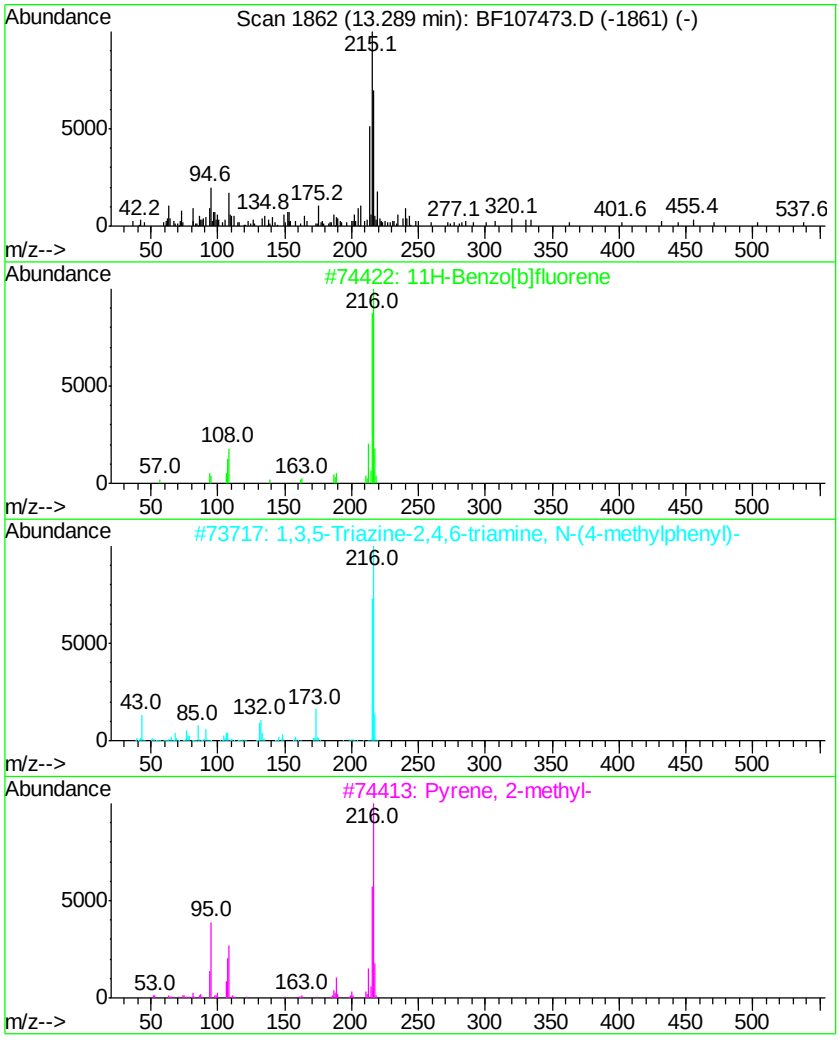
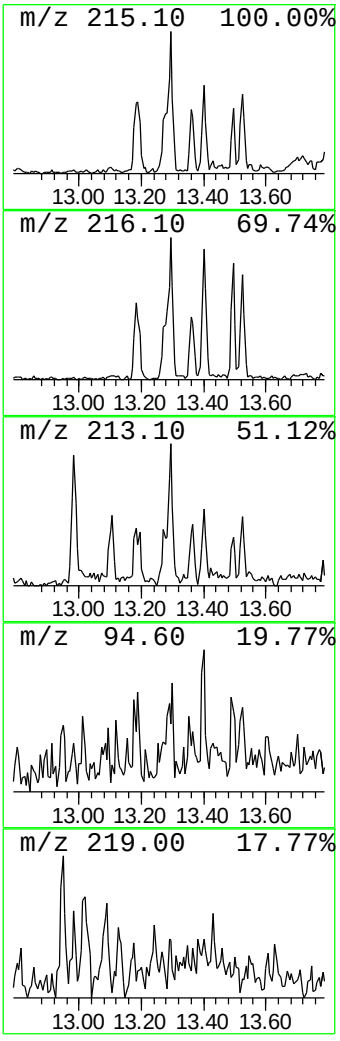
Peak Number 13 1,3,5-Triazine-2,4,6-triami... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.29	2.35 ng	200025	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	64
2	1,3,5-Triazine-2,4,6-triamine, N...	216	C10H12N6	046731-79-7	59
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	58
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	50
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	50





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Sample : J4016-14 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB4-U-23-13

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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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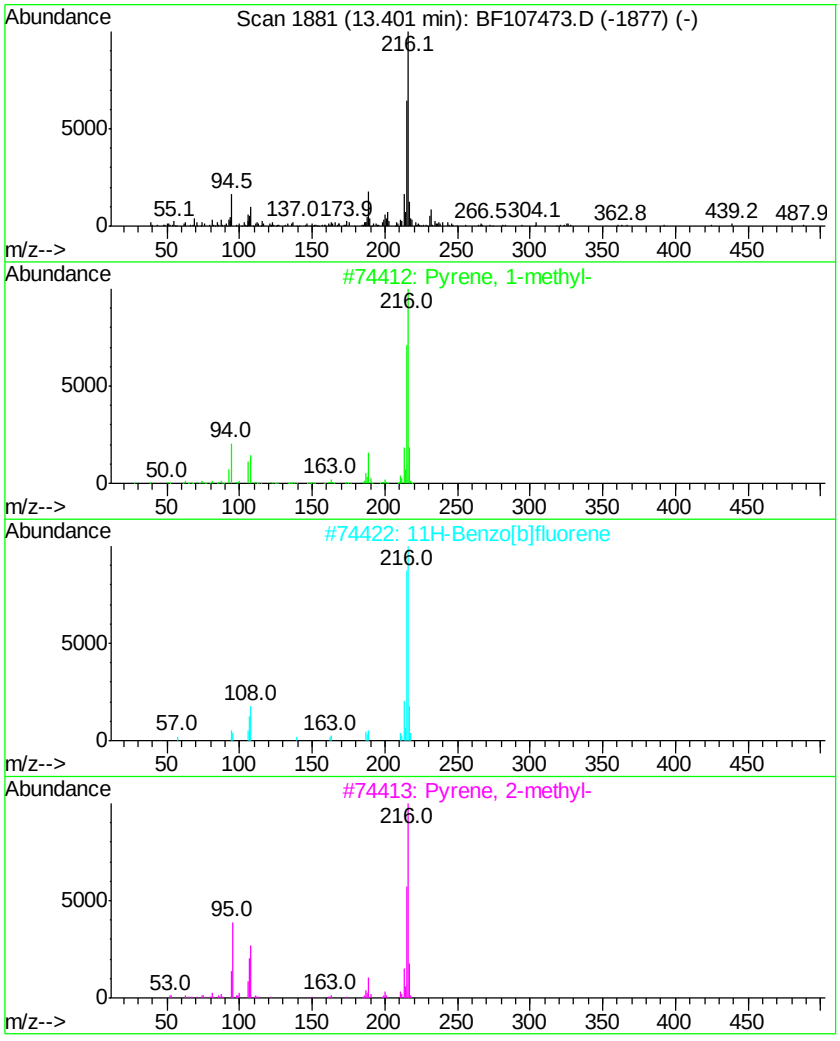
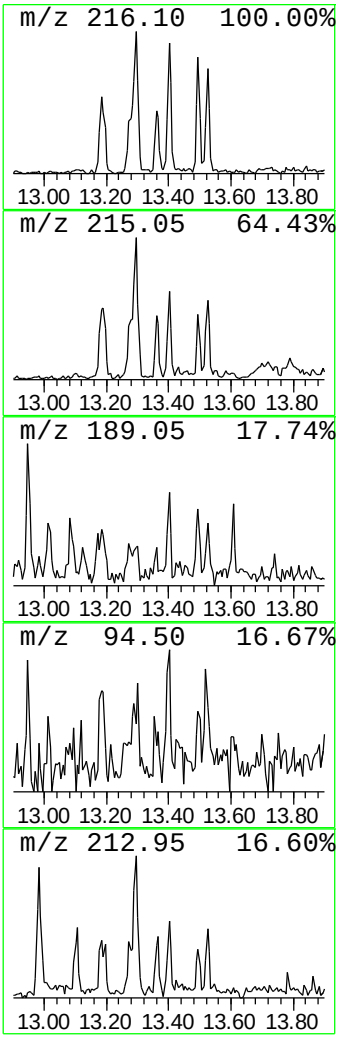
Peak Number 14 Pyrene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.40	2.64 ng	224082	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	81
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	80
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	76
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	74





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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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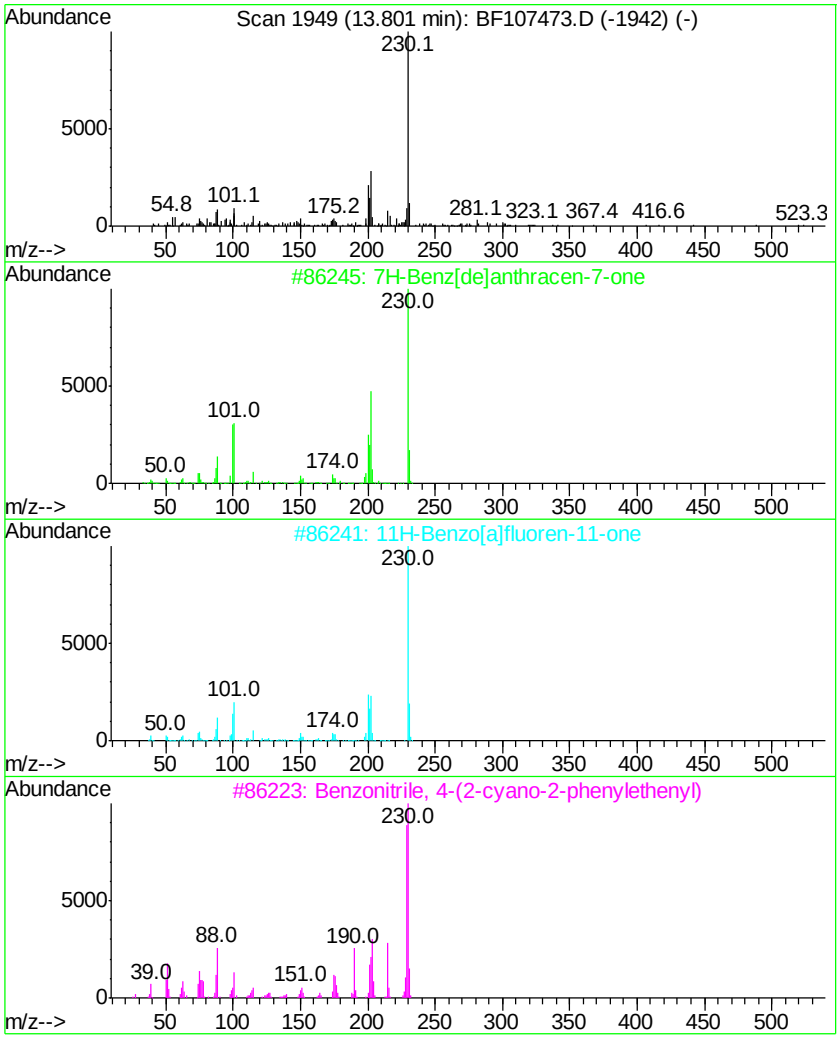
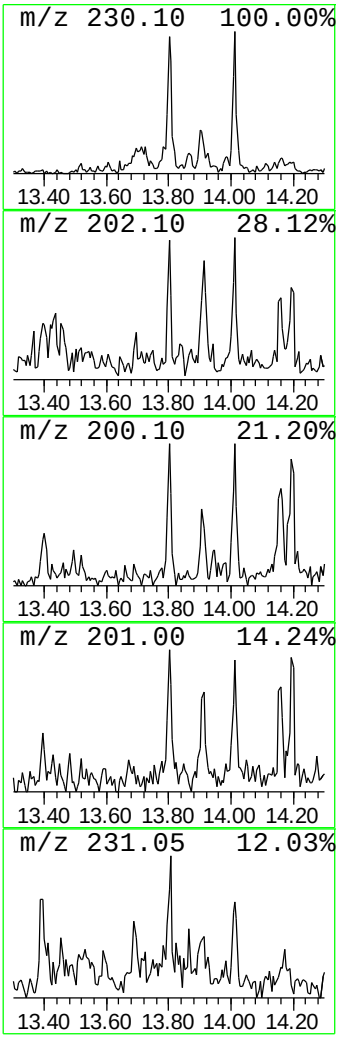
Peak Number 15 7H-Benz[de]anthracen-7-one Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.80	3.91 ng	331991	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	81
2	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	62
3	Benzonitrile, 4-(2-cyano-2-phenv...	230	C16H10N2	061469-58-7	53
4	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	52
5	Naphthacene, 5,12-dihydro-	230	C18H14	000959-02-4	47





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ClientSampleId : SB4-U-23-13

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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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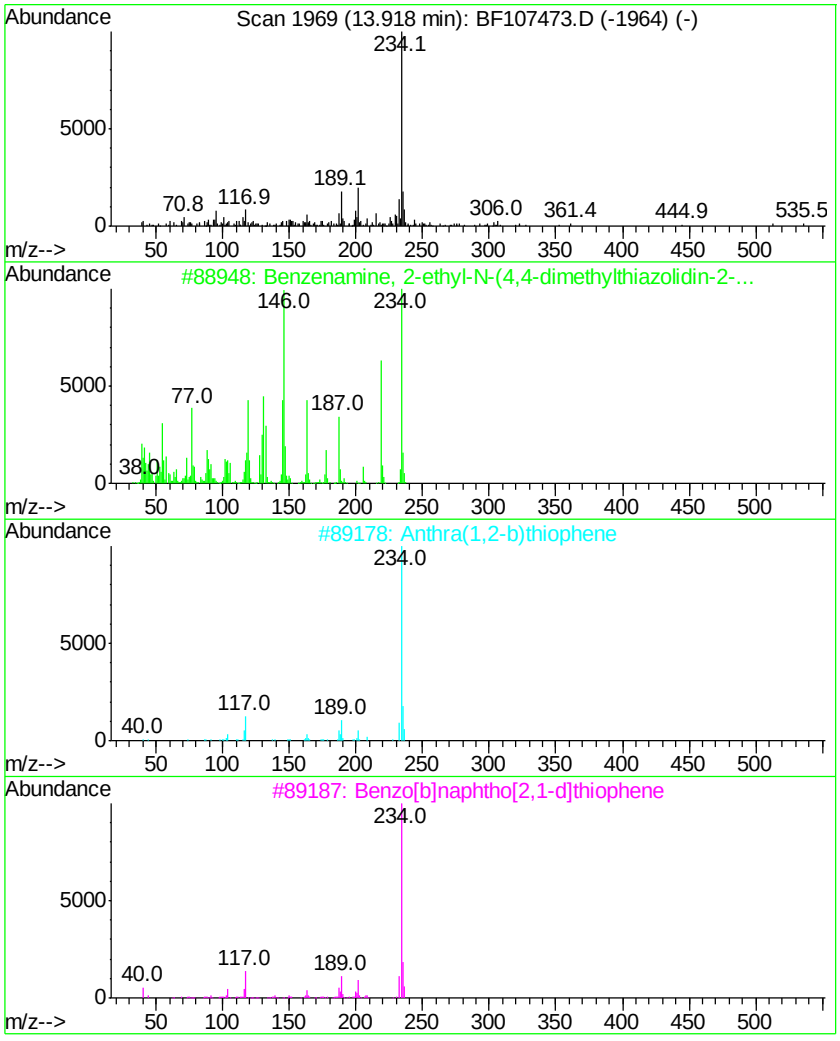
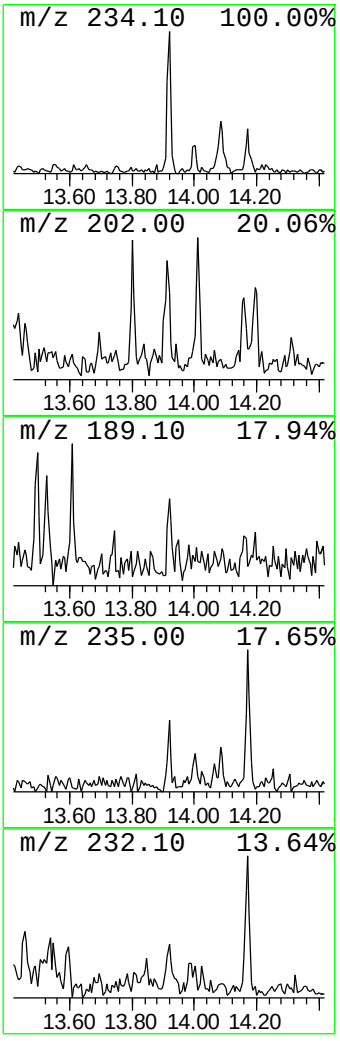
Peak Number 16 Benzenamine, 2-ethyl-N-(4,4... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.92	2.51 ng	213384	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 2-ethyl-N-(4,4-dime...	234	C13H18N2S	1000272-26-2	91
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	90
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	81
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	81
5	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	74





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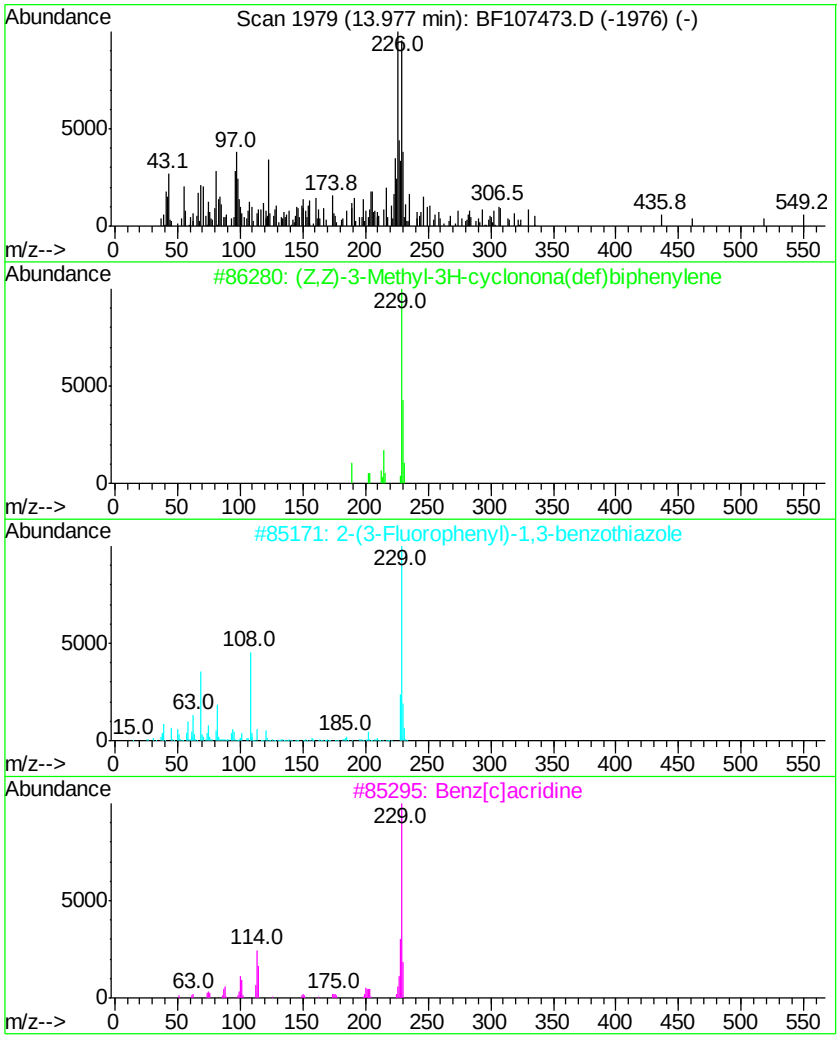
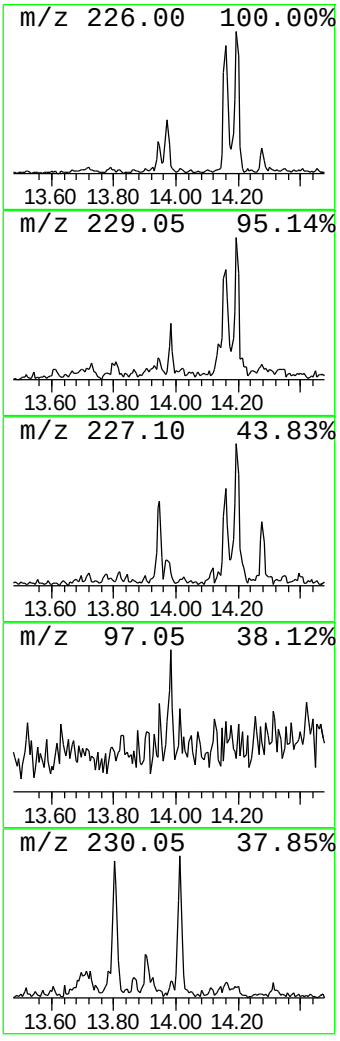
Peak Number 17 (Z,Z)-3-Methyl-3H-cyclonona... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.98	2.47 ng	209536	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(Z,Z)-3-Methyl-3H-cyclonona(def)...	230	C18H14	110823-80-8	52
2	2-(3-Fluorophenyl)-1,3-benzothia...	229	C13H8FNS	1000298-18-6	49
3	Benz[c]acridine	229	C17H11N	000225-51-4	47
4	Butylphosphonic acid, decyl 3-me...	368	C21H37O3P	1000323-02-2	43
5	Tetradecane, 1,1'-thiobis-	426	C28H58S	035599-83-8	43





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Data File : BF107473.D
Acq On : 18 Jul 2018 13:20
Operator : JU/SJ
Sample : J4016-14 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB4-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.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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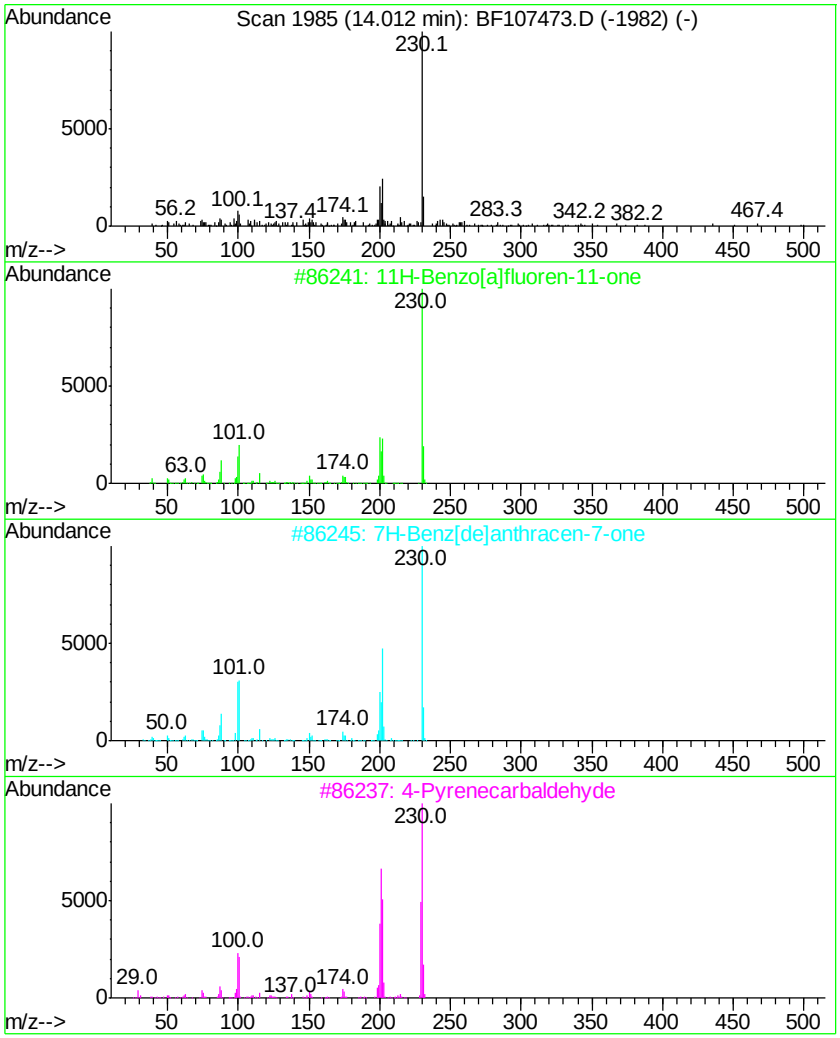
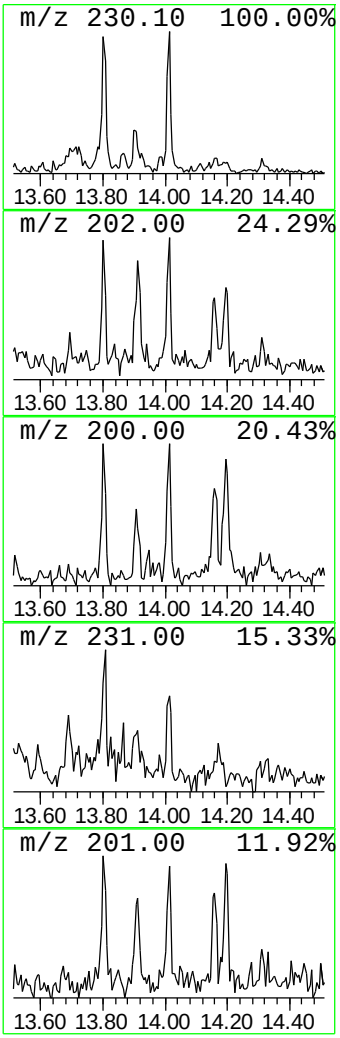
Peak Number 18 11H-Benzo[a]fluoren-11-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.01	2.29 ng	194949	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	87
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
3	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	64
4	p-Terphenyl	230	C18H14	000092-94-4	50
5	Phenazocine	321	C22H27NO	000127-35-5	49





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Data File : BF107473.D
Acq On : 18 Jul 2018 13:20
Operator : JU/SJ
Sample : J4016-14 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB4-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.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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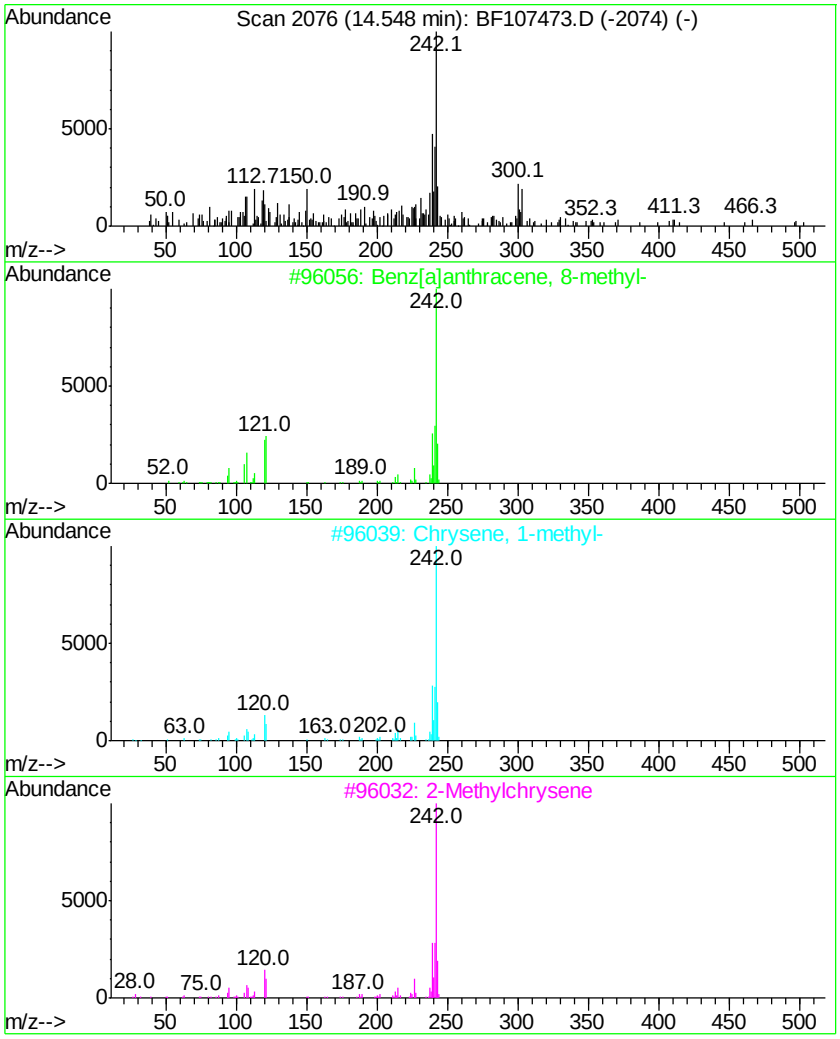
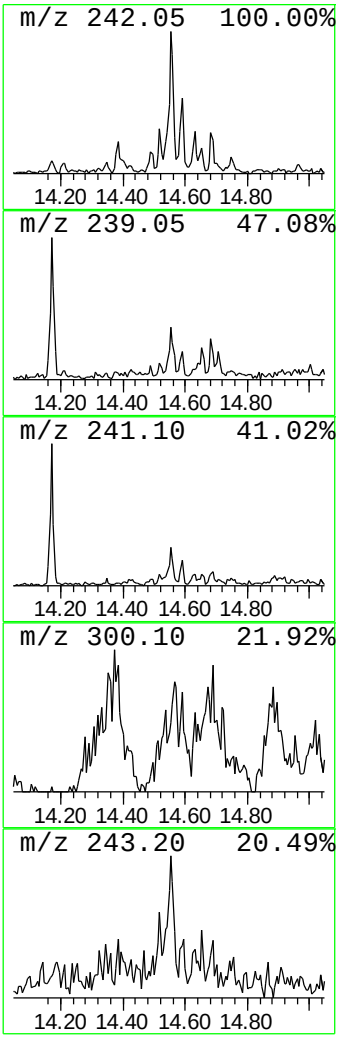
Peak Number 19 Benz[a]anthracene, 8-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.55	3.18 ng	270275	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	86
2	Chrysene, 1-methyl-	242	C19H14	003351-28-8	70
3	2-Methylchrysene	242	C19H14	003351-32-4	70
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	58
5	9H-Fluorene, 9-phenyl-	242	C19H14	000789-24-2	58





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107473.D
Acq On : 18 Jul 2018 13:20
Operator : JU/SJ
Sample : J4016-14 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB4-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.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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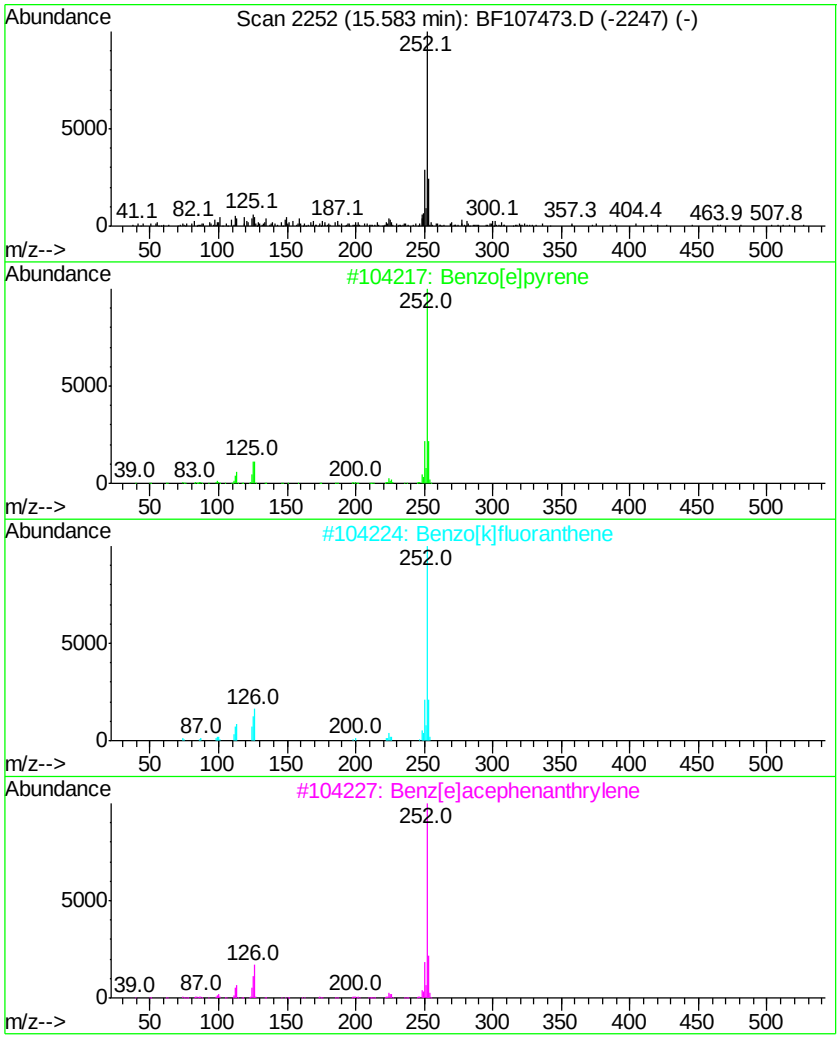
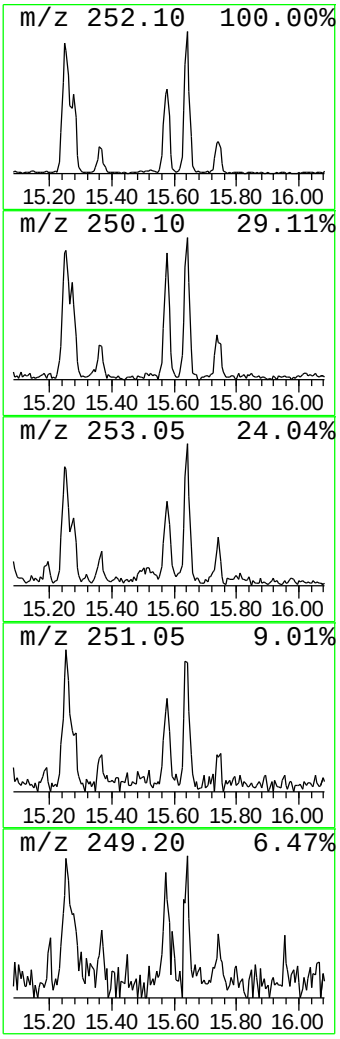
Peak Number 20 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.58	7.38 ng	396373	Perylene-d12	15.71

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	89
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	76
4	Benzo[a]pyrene	252	C20H12	000050-32-8	74
5	Perylene	252	C20H12	000198-55-0	74





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF071818\
Data File : BF107473.D
Acq On : 18 Jul 2018 13:20
Operator : JU/SJ
Sample : J4016-14 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB4-U-23-13

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.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...	5.21	4.0	ng	190643	1	6.98	946000	20.0
unknown6.75	6.75	32.3	ng	1525480	1	6.98	946000	20.0
Phenanthrene, 1-m...	12.02	5.2	ng	427770	4	11.52	1635340	20.0
Anthracene, 2-met...	12.05	6.3	ng	514342	4	11.52	1635340	20.0
Anthracene, 1-met...	12.09	2.5	ng	206680	4	11.52	1635340	20.0
4H-Cyclopenta[def...	12.14	7.7	ng	625226	4	11.52	1635340	20.0
Phenanthrene, 4-m...	12.16	3.7	ng	302722	4	11.52	1635340	20.0
5,16[1',2']:8,13[...	12.32	2.7	ng	223699	4	11.52	1635340	20.0
Phenanthrene, 3,6...	12.57	4.8	ng	391555	4	11.52	1635340	20.0
Benzene, (cyclopr...	12.66	3.4	ng	280506	4	11.52	1635340	20.0
11H-Benzo[b]fluorene	13.19	4.0	ng	338143	5	14.17	1699970	20.0
1,3,5-Triazine-2,...	13.29	2.4	ng	200025	5	14.17	1699970	20.0
Pyrene, 1-methyl-	13.40	2.6	ng	224082	5	14.17	1699970	20.0
7H-Benz[de]anthra...	13.80	3.9	ng	331991	5	14.17	1699970	20.0
Benzenamine, 2-et...	13.92	2.5	ng	213384	5	14.17	1699970	20.0
(Z,Z)-3-Methyl-3H...	13.98	2.5	ng	209536	5	14.17	1699970	20.0
11H-Benzo[a]fluor...	14.01	2.3	ng	194949	5	14.17	1699970	20.0
Benz[a]anthracene...	14.55	3.2	ng	270275	5	14.17	1699970	20.0
Benzo[e]pyrene	15.58	7.4	ng	396373	6	15.71	1073560	20.0