LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041718\
Data File : BF104574.D
Acq On : 17 Apr 2018 21:03
Operator : JU/SJ
Sample : J2387-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

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-BF040618.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	5.422	562	567	570	rBV	2727876	2567477	97.84%	4.190%
2	6.445	735	741	747	rBV	2463652	2554416	97.35%	4.169%
3	6.575	759	763	766	rBV	2855642	2624076	100.00%	4.283%
4	6.804	798	802	805	rBV	1056864	824628	31.43%	1.346%
5	6.963	824	829	832	rBV	2168999	2034531	77.53%	3.320%
6	7.369	894	898	901	rVV	1805559	1535163	58.50%	2.505%
7	8.086	1014	1020	1023	rBV	1221604	1070945	40.81%	1.748%
8	8.798	1138	1141	1145	rBV	371666	296366	11.29%	0.484%
9	8.898	1154	1158	1162	rBV	421214	337410	12.86%	0.551%
10	9.163	1199	1203	1206	rBV	2918075	2412659	91.94%	3.937%
11	9.357	1234	1236	1242	rVB	353655	340072	12.96%	0.555%
12	9.428	1243	1248	1252	rVV	426580	553383	21.09%	0.903%
13	9.498	1257	1260	1263	rVV	617283	631483	24.06%	1.031%
14	9.528	1263	1265	1267	rVV	367995	291711	11.12%	0.476%
15	9.557	1267	1270	1277	rVV2	432682	458639	17.48%	0.749%
16	9.616	1277	1280	1287	rVV	322894	345386	13.16%	0.564%
17	9.704	1292	1295	1299	rVB	569019	470687	17.94%	0.768%
18	9.845	1312	1319	1322	rBV2	1078199	1134915	43.25%	1.852%
19	9.875	1322	1324	1327	rVV2	551914	432181	16.47%	0.705%
20	9.945	1333	1336	1340	rBV2	170276	219846	8.38%	0.359%
21	9.998	1340	1345	1347	rBV2	103391	132867	5.06%	0.217%
22	10.045	1348	1353	1357	rVV3	231578	275439	10.50%	0.450%
23	10.086	1357	1360	1363	rVV	248442	223526	8.52%	0.365%
24	10.157	1368	1372	1375	rBV2	217994	253913	9.68%	0.414%
25	10.186	1375	1377	1379	rVV	209279	144288	5.50%	0.235%
26	10.245	1383	1387	1389	rBV3	176563	229123	8.73%	0.374%
27	10.392	1409	1412	1418	rVB	443691	482805	18.40%	0.788%
28	10.439	1418	1420	1424	rBV2	154260	189863	7.24%	0.310%
29	10.498	1428	1430	1433	rVV	175042	182081	6.94%	0.297%
30	10.545	1435	1438	1441	rVV2	127780	138186	5.27%	0.226%
31	10.633	1450	1453	1457	rVB	1613641	1419803	54.11%	2.317%
32	10.751	1468	1473	1477	rBV3	178333	273780	10.43%	0.447%
33	10.939	1501	1505	1507	rBV2	320333	377189	14.37%	0.616%
34	10.969	1507	1510	1513	rVV	243639	224469	8.55%	0.366%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J2387-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

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-BF040618.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.022	1517	1519	1523	rVB	221894	163472	6.23%	0.267%
36	11.092	1528	1531	1534	rVV	181144	199685	7.61%	0.326%
37	11.139	1537	1539	1542	rVV2	202011	169241	6.45%	0.276%
38	11.227	1550	1554	1562	rVB	411318	459255	17.50%	0.750%
39	11.333	1568	1572	1574	rBV	1032048	968447	36.91%	1.581%
40	11.357	1574	1576	1580	rVV	2161507	1933212	73.67%	3.155%
41	11.410	1582	1585	1587	rVV	1274224	1033100	39.37%	1.686%
42	11.439	1587	1590	1593	rVV3	148841	197853	7.54%	0.323%
43	11.486	1596	1598	1604	rVB2	91331	138001	5.26%	0.225%
44	11.627	1619	1622	1624	rVV	184843	167177	6.37%	0.273%
45	11.663	1625	1628	1633	rVB	337709	294722	11.23%	0.481%
46	11.745	1639	1642	1646	rVB	209687	237976	9.07%	0.388%
47	11.833	1654	1657	1660	rVV	894693	875009	33.35%	1.428%
48	11.863	1660	1662	1665	rVV	965693	767904	29.26%	1.253%
49	11.910	1667	1670	1673	rVV	685422	576356	21.96%	0.941%
50	11.945	1673	1676	1679	rVV	1186033	1464263	55.80%	2.390%
51	11.969	1679	1680	1684	rVB	703808	437183	16.66%	0.713%
52	12.127	1700	1707	1710	rBV	522159	573501	21.86%	0.936%
53	12.163	1711	1713	1718	rVB3	145546	146634	5.59%	0.239%
54	12.280	1731	1733	1735	rVV2	178174	155542	5.93%	0.254%
55	12.310	1735	1738	1740	rVV	217055	196673	7.49%	0.321%
56	12.333	1740	1742	1745	rVB2	176220	139380	5.31%	0.227%
57	12.386	1747	1751	1753	rBV	561646	582126	22.18%	0.950%
58	12.422	1753	1757	1759	rVV	434520	554757	21.14%	0.905%
59	12.439	1759	1760	1763	rVV2	196660	146897	5.60%	0.240%
60	12.469	1763	1765	1766	rVV	181455	153031	5.83%	0.250%
61	12.551	1775	1779	1782	rBV	1671388	1554871	59.25%	2.538%
62	12.592	1782	1786	1788	rVV2	214848	215706	8.22%	0.352%
63	12.645	1792	1795	1797	rVB	690774	560765	21.37%	0.915%
64	12.716	1805	1807	1812	rVB	287632	288876	11.01%	0.471%
65	12.780	1812	1818	1824	rBV	2161158	2343218	89.30%	3.824%
66	12.833	1824	1827	1830	rVB2	152928	149133	5.68%	0.243%
67	12.921	1838	1842	1845	rBV	2099374	1880125	71.65%	3.068%
68	12.992	1851	1854	1861	rBV	353128	491698	18.74%	0.802%
69	13.051	1861	1864	1866	rBV2	134828	135096	5.15%	0.220%
70	13.086	1866	1870	1871	rVV2	362449	411193	15.67%	0.671%
71	13.104	1871	1873	1877	rVB	776919	759492	28.94%	1.239%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J2387-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

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-BF040618.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.174	1882	1885	1888	rVB	653793	543539	20.71%	0.887%
73	13.210	1888	1891	1894	rBV	512597	425555	16.22%	0.695%
74	13.274	1899	1902	1905	rVV	621894	705125	26.87%	1.151%
75	13.304	1905	1907	1910	rVV	500892	469725	17.90%	0.767%
76	13.333	1910	1912	1919	rVB	544425	563359	21.47%	0.919%
77	13.510	1939	1942	1944	rVV2	128611	161477	6.15%	0.264%
78	13.586	1952	1955	1958	rBV2	166441	241366	9.20%	0.394%
79	13.727	1977	1979	1981	rVV	242315	205870	7.85%	0.336%
80	13.751	1981	1983	1986	rVV	275038	264439	10.08%	0.432%
81	13.780	1986	1988	1990	rVV	160754	139616	5.32%	0.228%
82	13.810	1990	1993	1997	rVB3	317746	307921	11.73%	0.503%
83	13.974	2016	2021	2024	rBV2	1720439	2412628	91.94%	3.937%
84	14.004	2024	2026	2031	rVB	1163295	1118663	42.63%	1.826%
85	14.333	2079	2082	2084	rVV2	161520	195849	7.46%	0.320%
86	14.368	2084	2088	2091	rVV	552961	644173	24.55%	1.051%
87	14.404	2091	2094	2096	rVV	277618	258918	9.87%	0.423%
88	14.463	2097	2104	2107	rVV3	282032	464968	17.72%	0.759%
89	14.492	2107	2109	2111	rVV	215642	212872	8.11%	0.347%
90	14.515	2111	2113	2118	rVV2	333924	378618	14.43%	0.618%
91	14.921	2179	2182	2191	rVB2	114585	198310	7.56%	0.324%
92	15.021	2194	2199	2208	rBV	487198	1023642	39.01%	1.671%
93	15.127	2213	2217	2221	rVB	247973	270749	10.32%	0.442%
94	15.321	2246	2250	2256	rVB	379250	443937	16.92%	0.725%
95	15.380	2256	2260	2265	rBV	683098	854590	32.57%	1.395%
96	15.445	2266	2271	2274	rBV	596634	731184	27.86%	1.193%
97	15.798	2328	2331	2339	rVB2	74389	142662	5.44%	0.233%
98	15.998	2362	2365	2372	rVB2	99772	158950	6.06%	0.259%
99	16.892	2511	2517	2524	rVB2	153627	292773	11.16%	0.478%
100	17.327	2586	2591	2598	rVB	129497	237907	9.07%	0.388%

Sum of corrected areas: 61274261

LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041718\
Data File : BF104574.D
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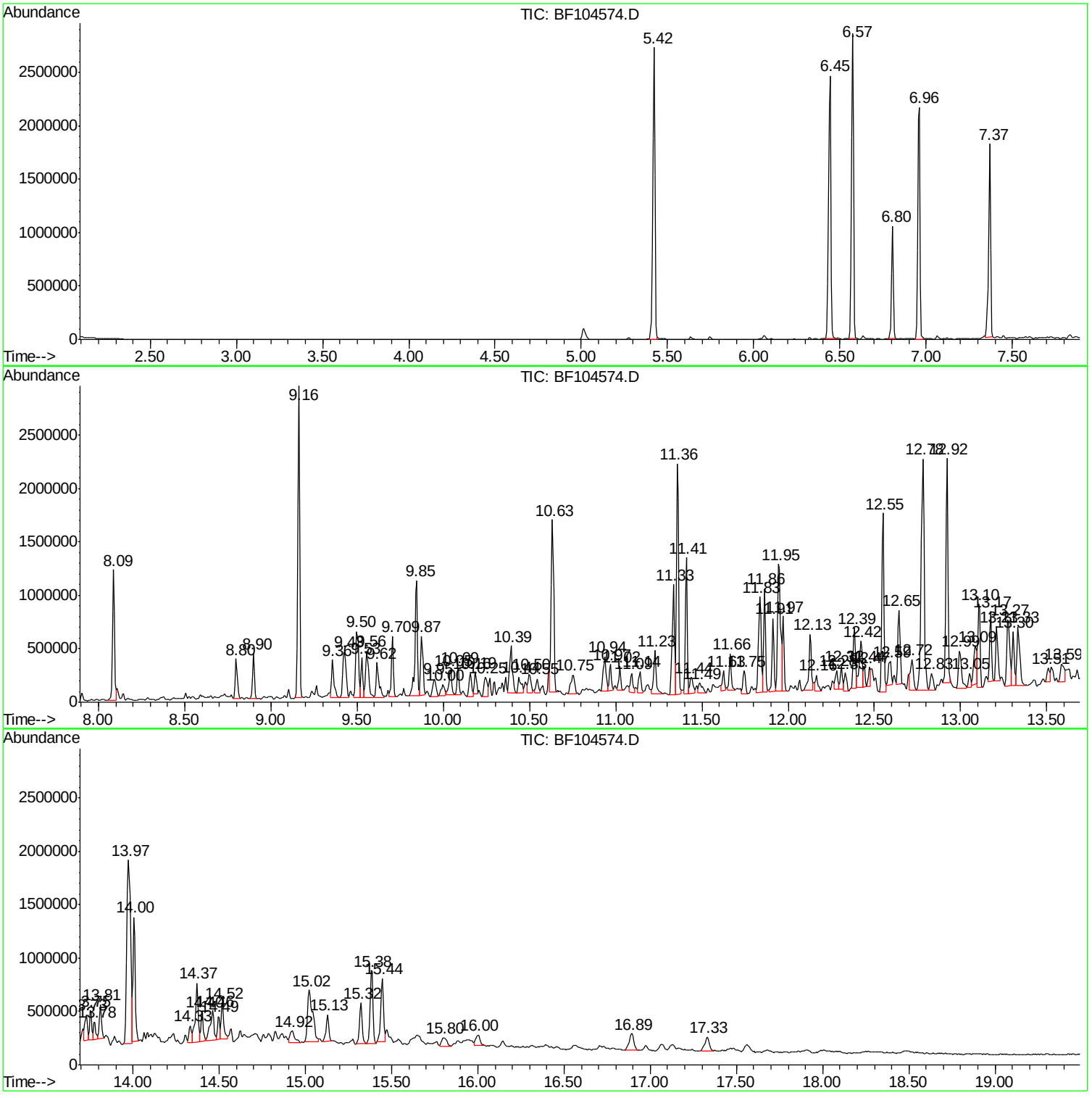
Operator : JU/SJ
Sample : J2387-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
20180243-COMPOSITE-E

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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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Instrument : BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

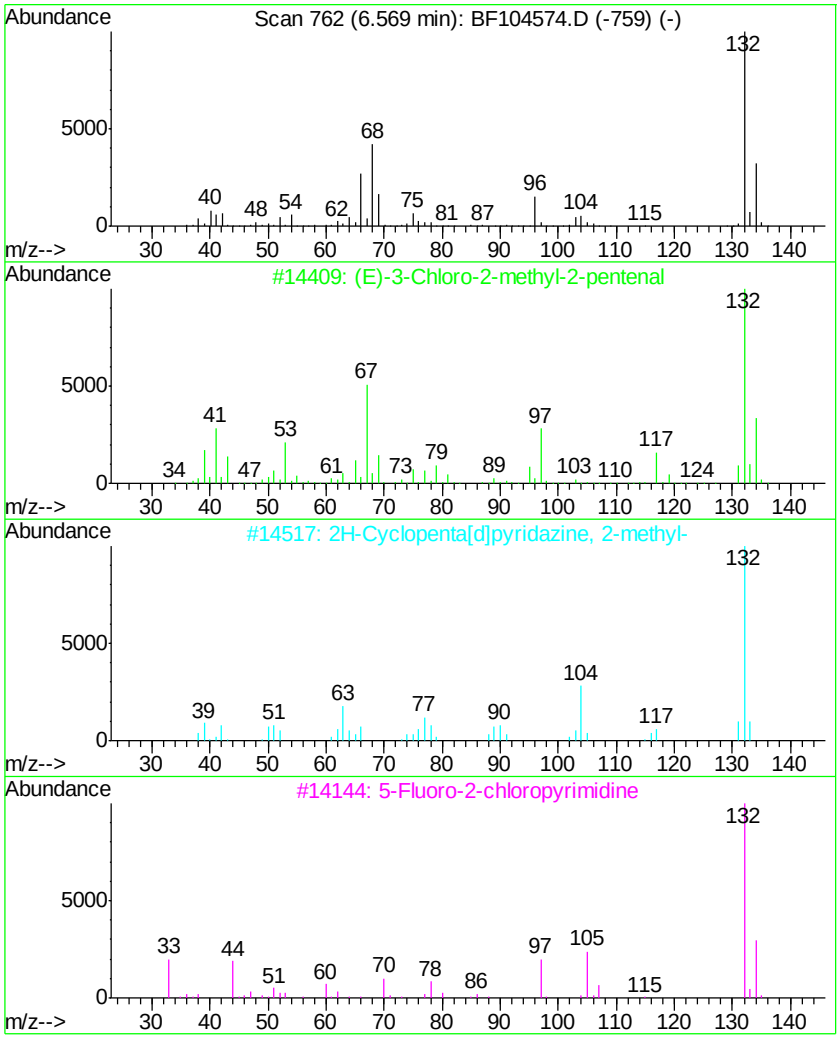
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

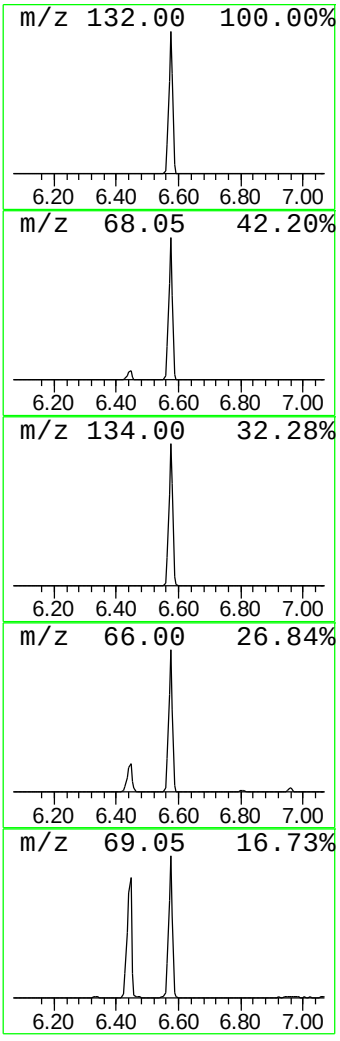
****

Peak Number 1 unknown6.57 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.57	63.64 ng	2624080	1,4-Dichlorobenzene-d4	6.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
2	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9
3	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
4	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
5	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF041718\
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Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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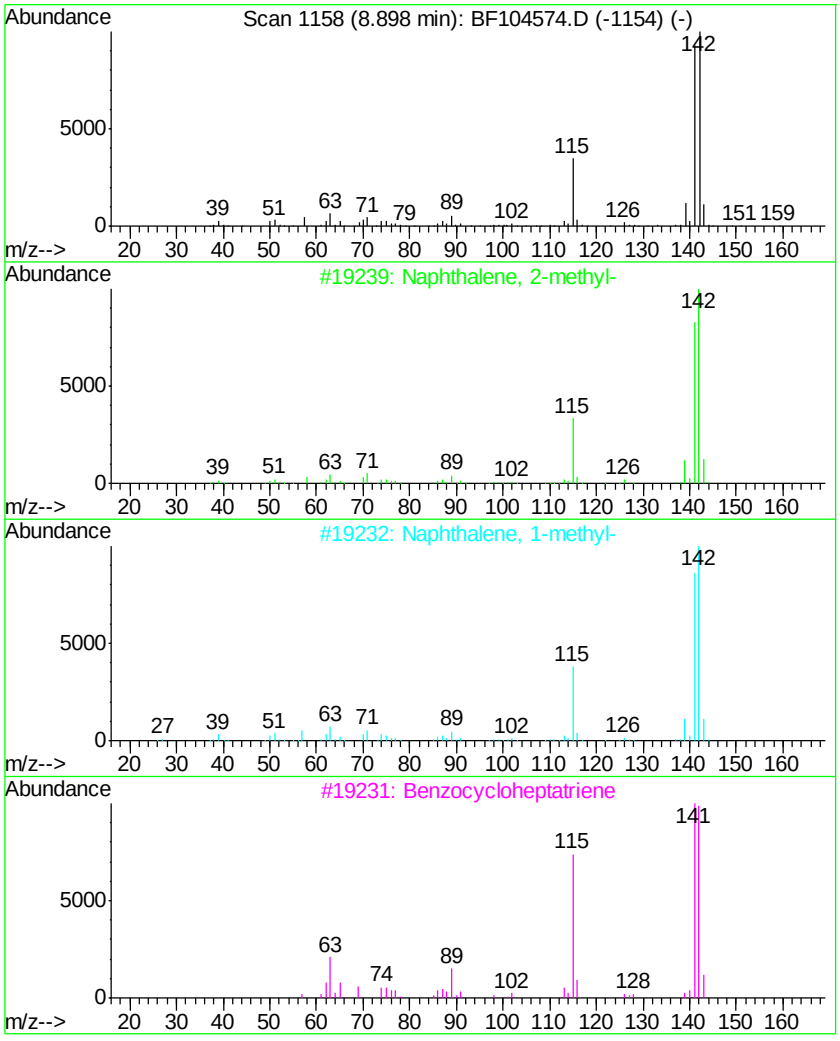
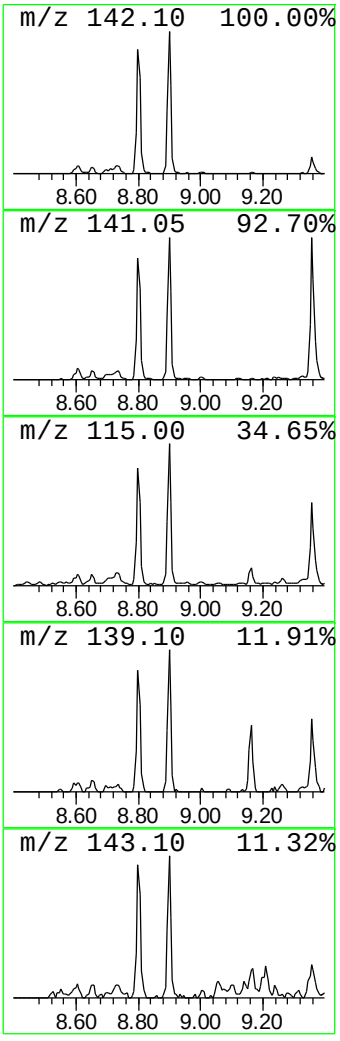
Peak Number 3 Naphthalene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.90	6.30 ng	337410	Naphthalene-d8	8.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3	Benzocycloheptatriene	142	C11H10	000264-09-5	91
4	Bicyclo[4.4.1]undeca-1,3,5,7,9-p...	142	C11H10	002443-46-1	91
5	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91





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ClientSampleId :
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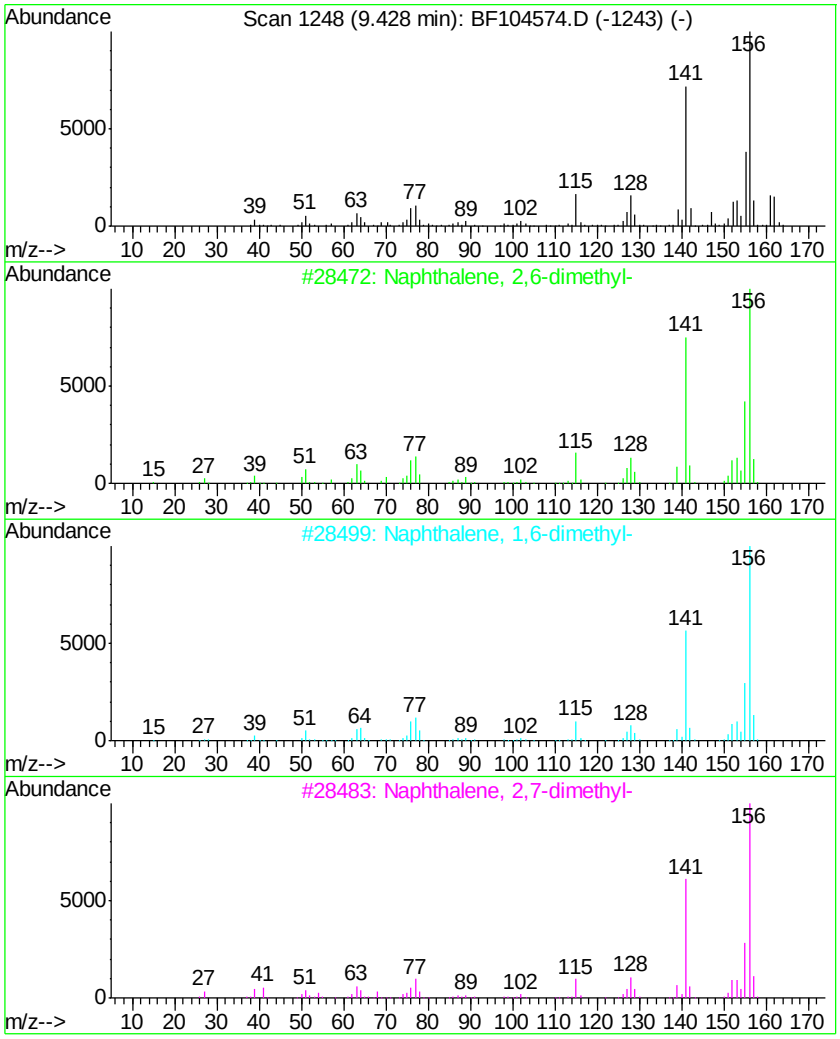
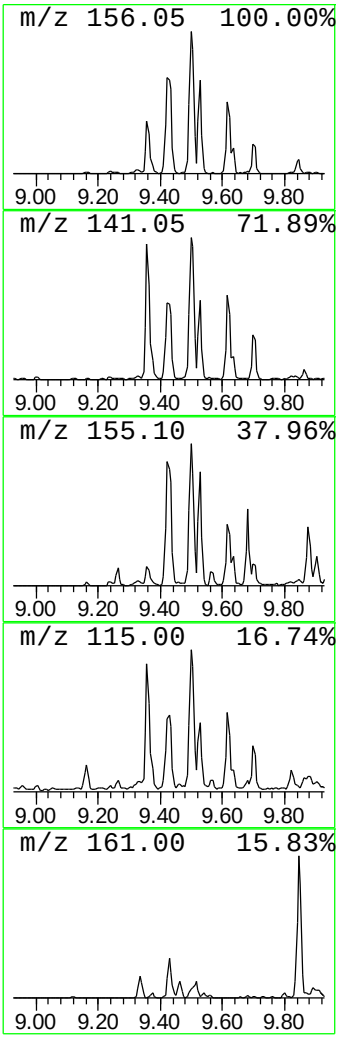
Peak Number 4 Naphthalene, 2,6-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.43	9.75 ng	553383	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96





Data Path : Z:\HPCHEM1\BNA F\DATA\BF041718\
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Operator : JU/SJ
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ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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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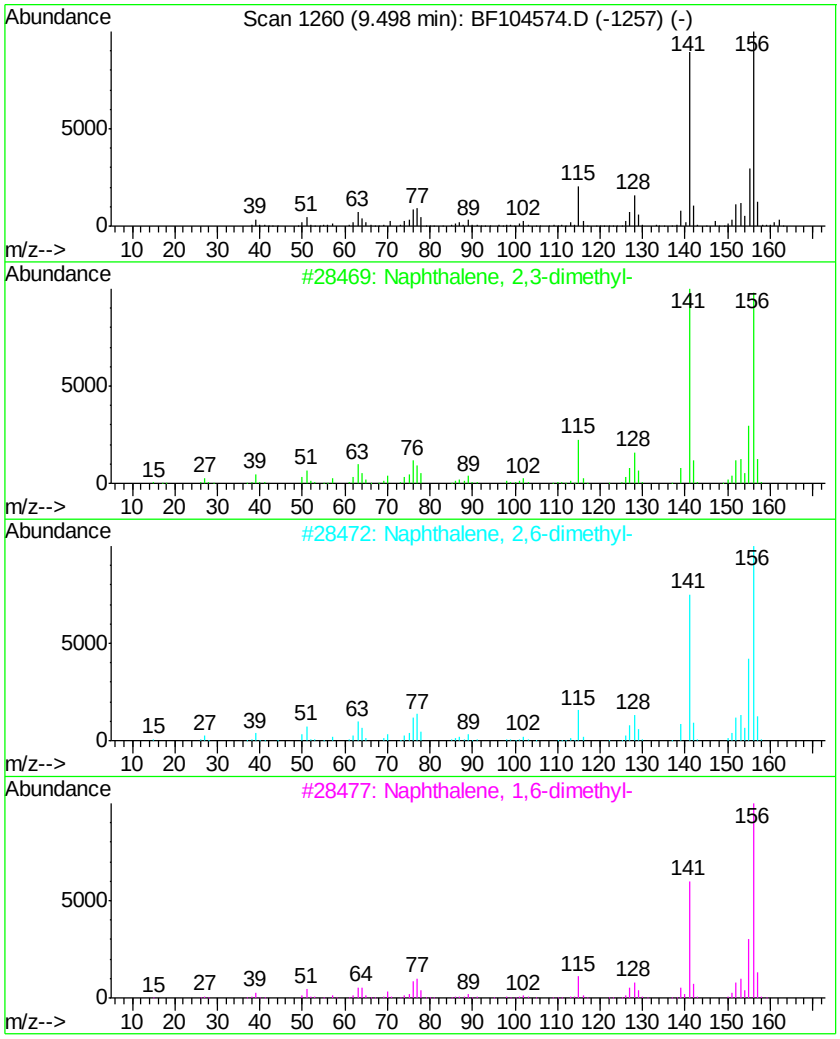
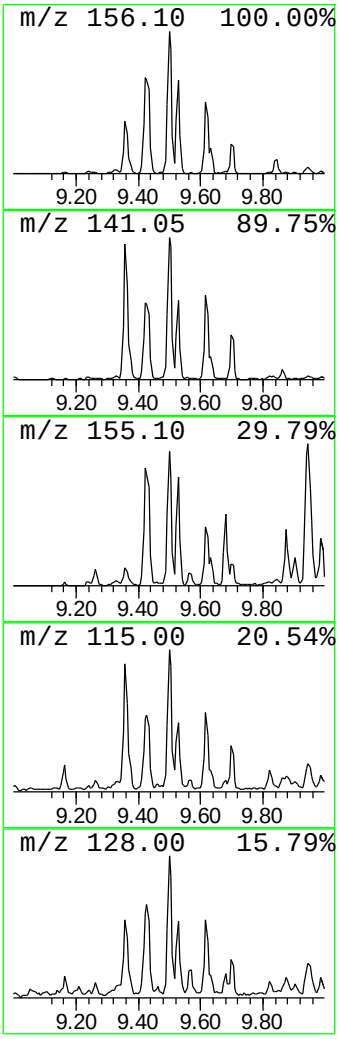
Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.50	11.13 ng	631483	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96





Data Path : Z:\HPCHEM1\BNA F\DATA\BF041718\
Data File : BF104574.D
Acq On : 17 Apr 2018 21:03
Operator : JU/SJ
Sample : J2387-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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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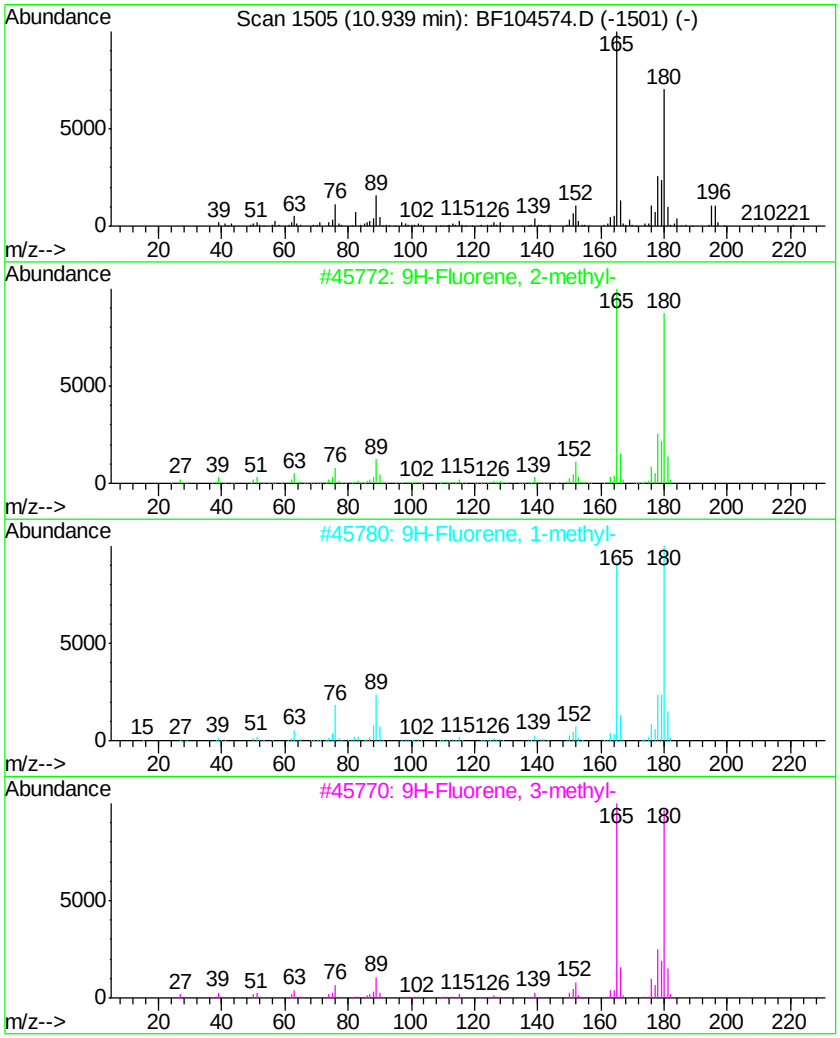
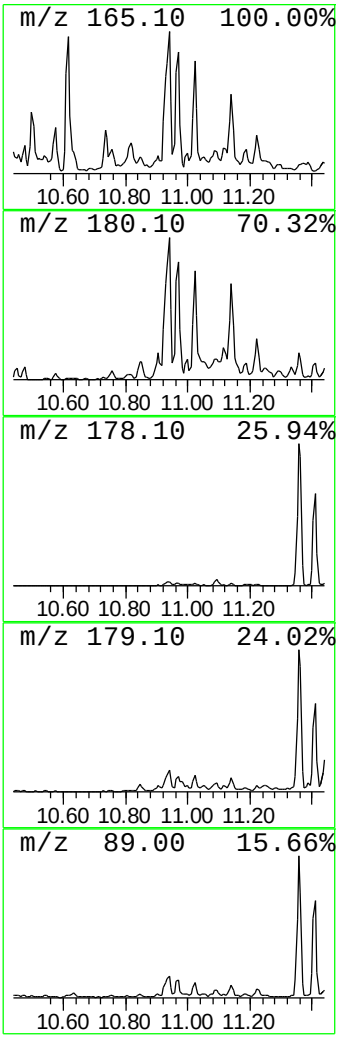
Peak Number 7 9H-Fluorene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.94	7.79 ng	377189	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	93
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
4	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	91
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	70





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Data File : BF104574.D
Acq On : 17 Apr 2018 21:03
Operator : JU/SJ
Sample : J2387-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

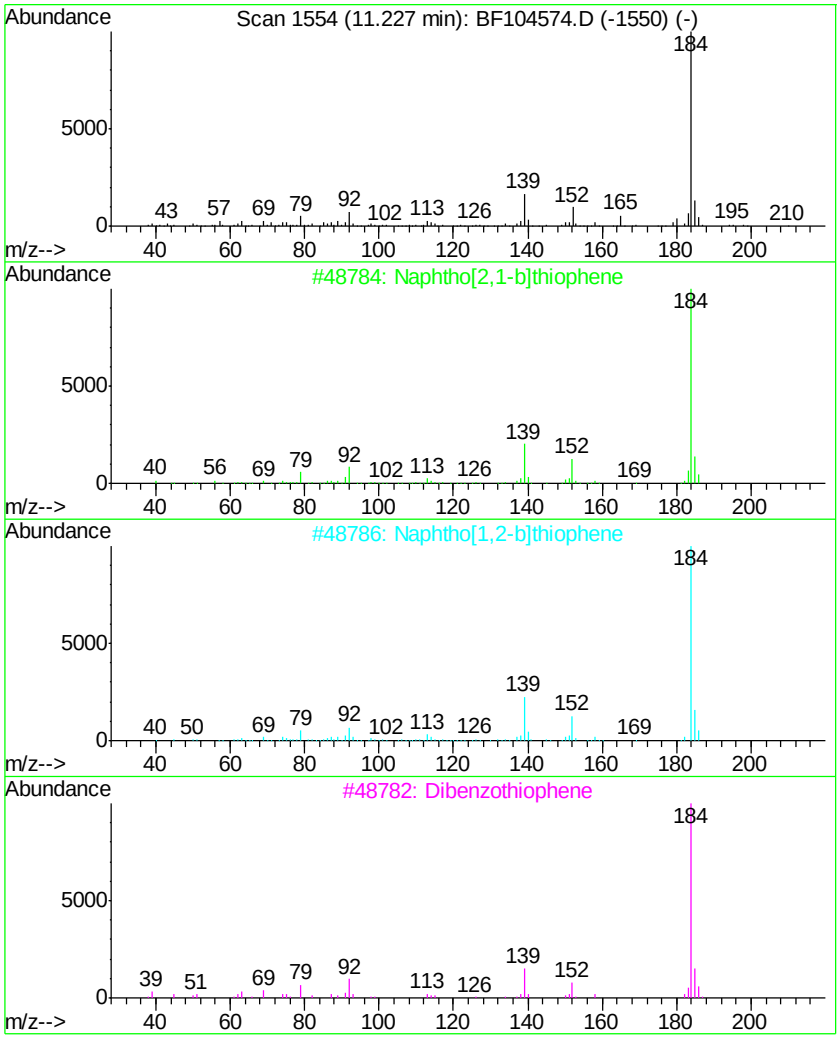
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

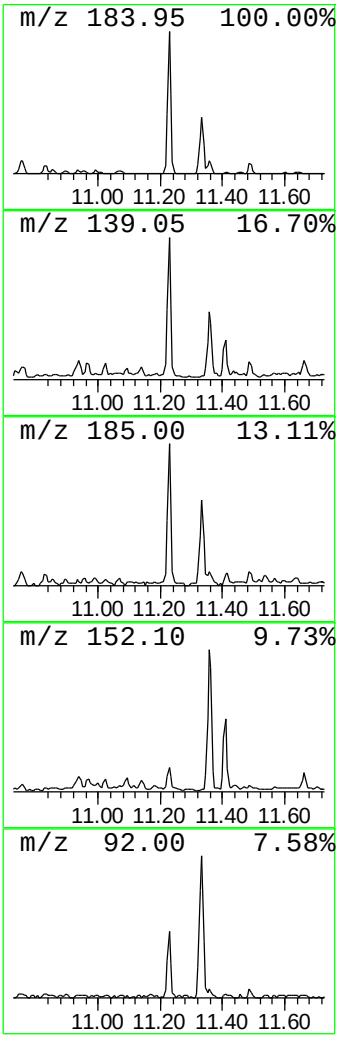
****

Peak Number 8 Naphtho[2,1-b]thiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	9.48 ng	459255	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	97
3	Dibenzothiophene	184	C12H8S	000132-65-0	96
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90
5	Dibenzothiophene, 5-oxide	200	C12H8OS	001013-23-6	64





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Acq On : 17 Apr 2018 21:03
Operator : JU/SJ
Sample : J2387-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

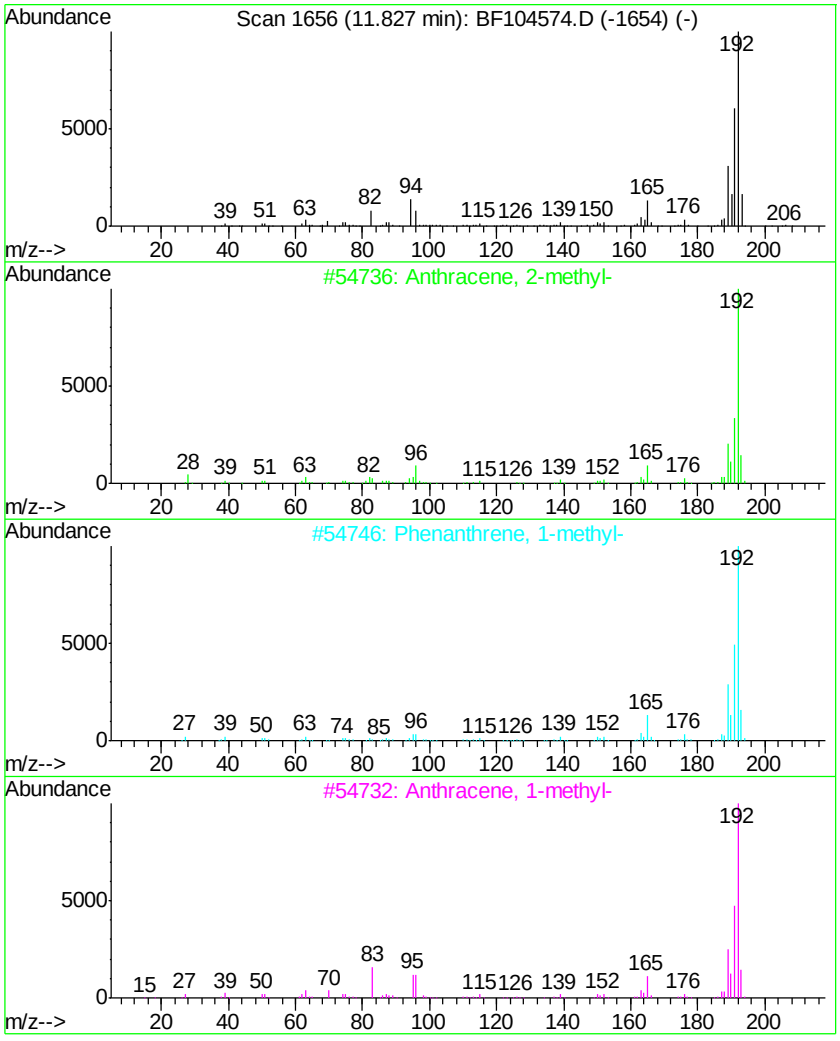
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

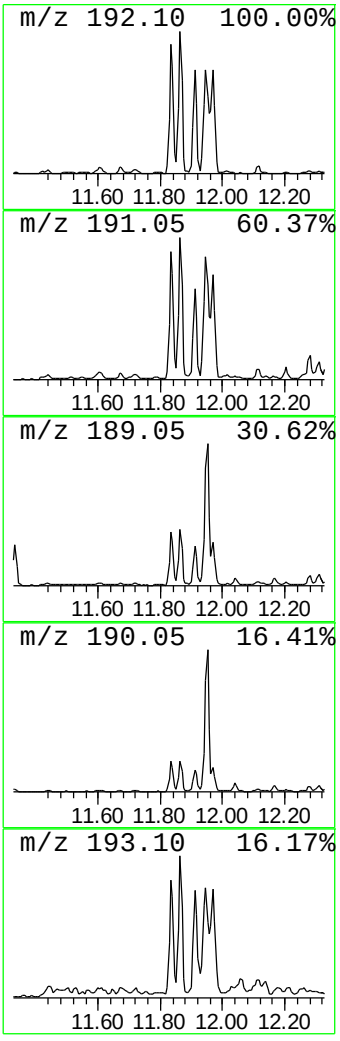
****

Peak Number 9 Anthracene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	18.07 ng	875009	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90





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Data File : BF104574.D
Acq On : 17 Apr 2018 21:03
Operator : JU/SJ
Sample : J2387-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

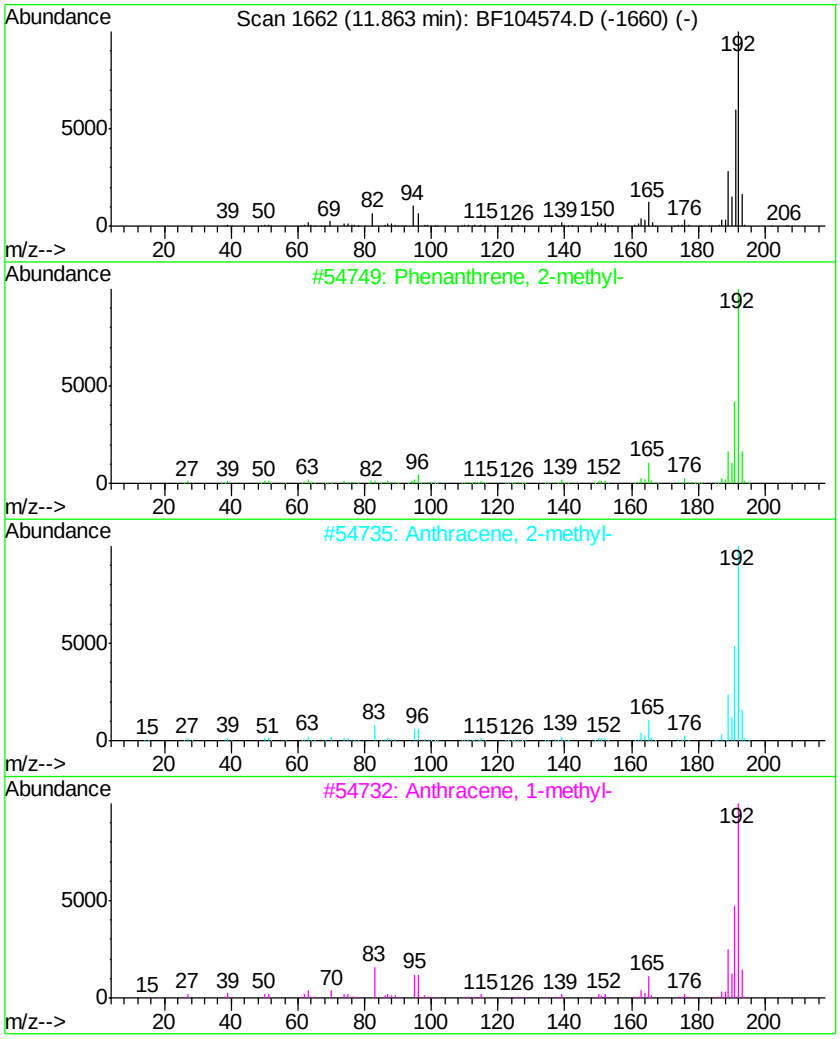
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

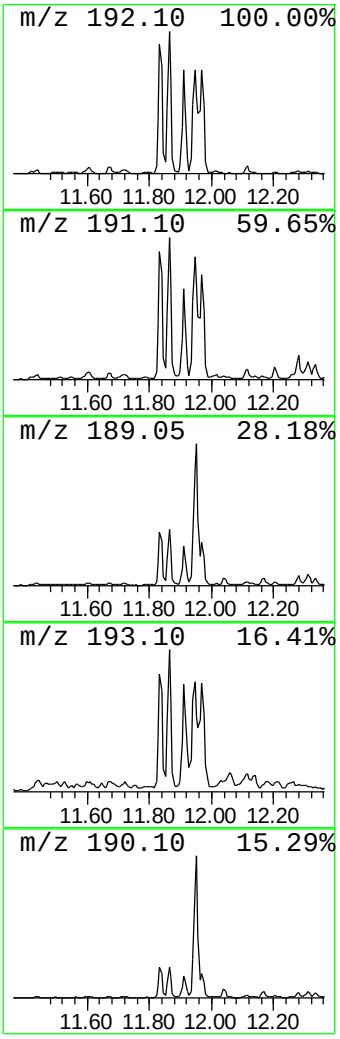
****

Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	15.86 ng	767904	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	89





Data Path : Z:\HPCHEM1\BNA F\DATA\BF041718\
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Acq On : 17 Apr 2018 21:03
Operator : JU/SJ
Sample : J2387-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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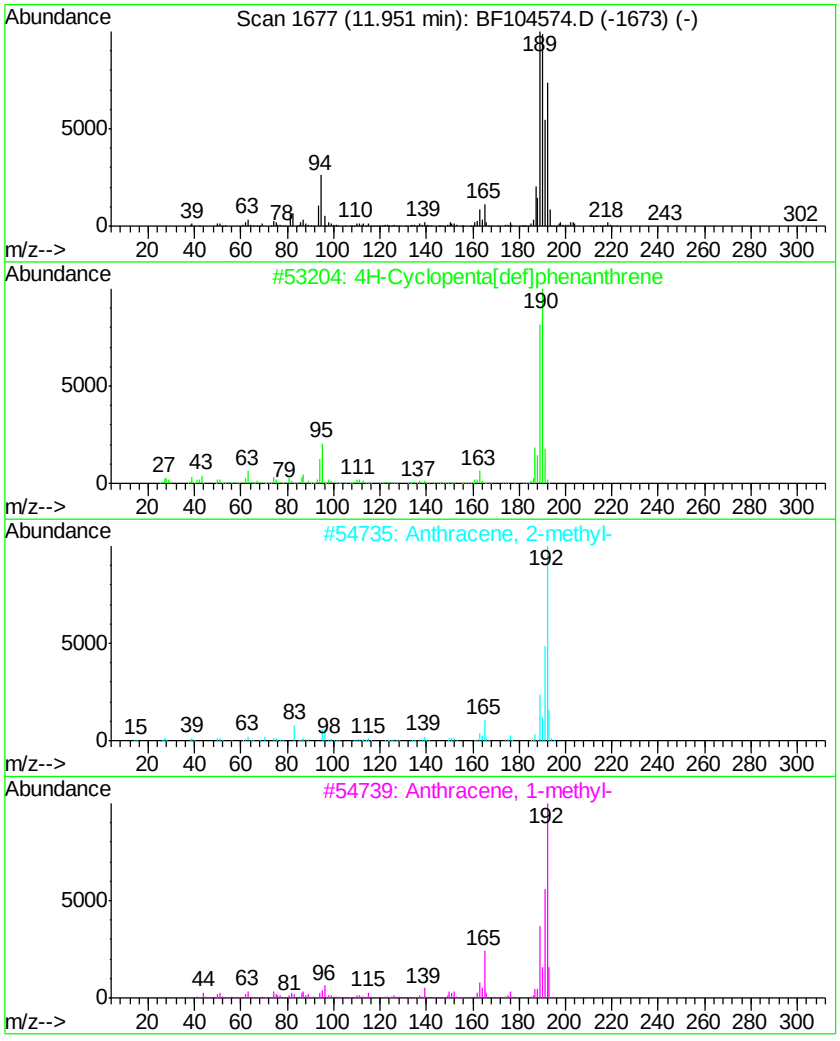
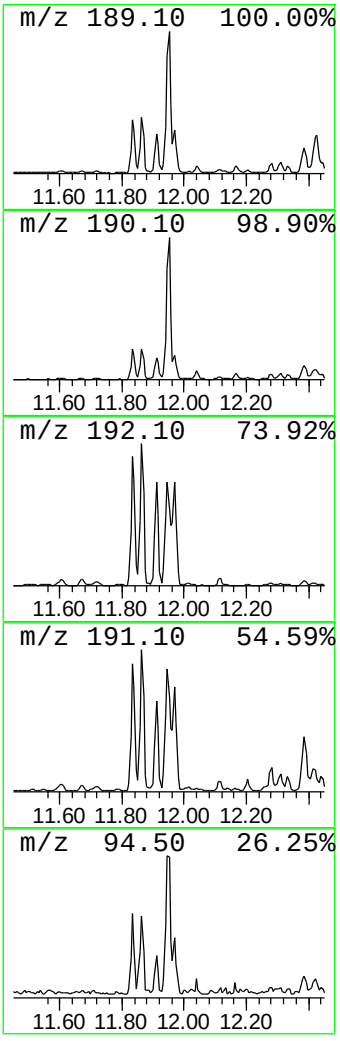
Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	30.24 ng	1464260	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	46
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	42
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	42
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	42





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Acq On : 17 Apr 2018 21:03
Operator : JU/SJ
Sample : J2387-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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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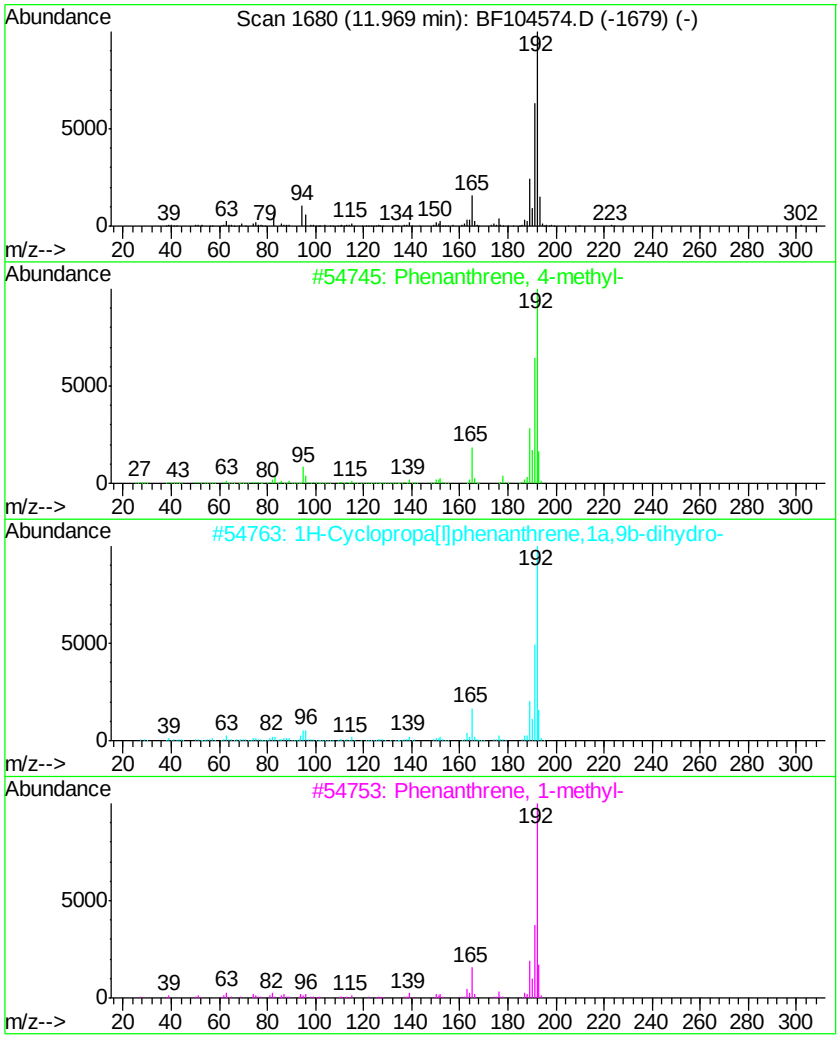
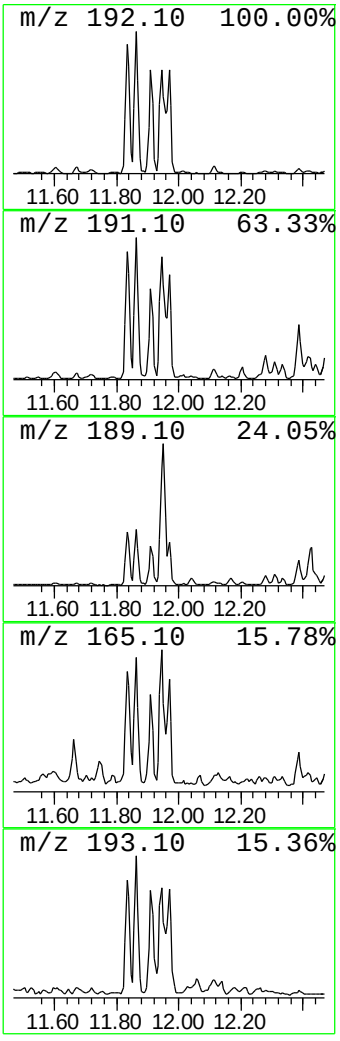
Peak Number 13 Phenanthrene, 4-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	9.03 ng	437183	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94





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Acq On : 17 Apr 2018 21:03
Operator : JU/SJ
Sample : J2387-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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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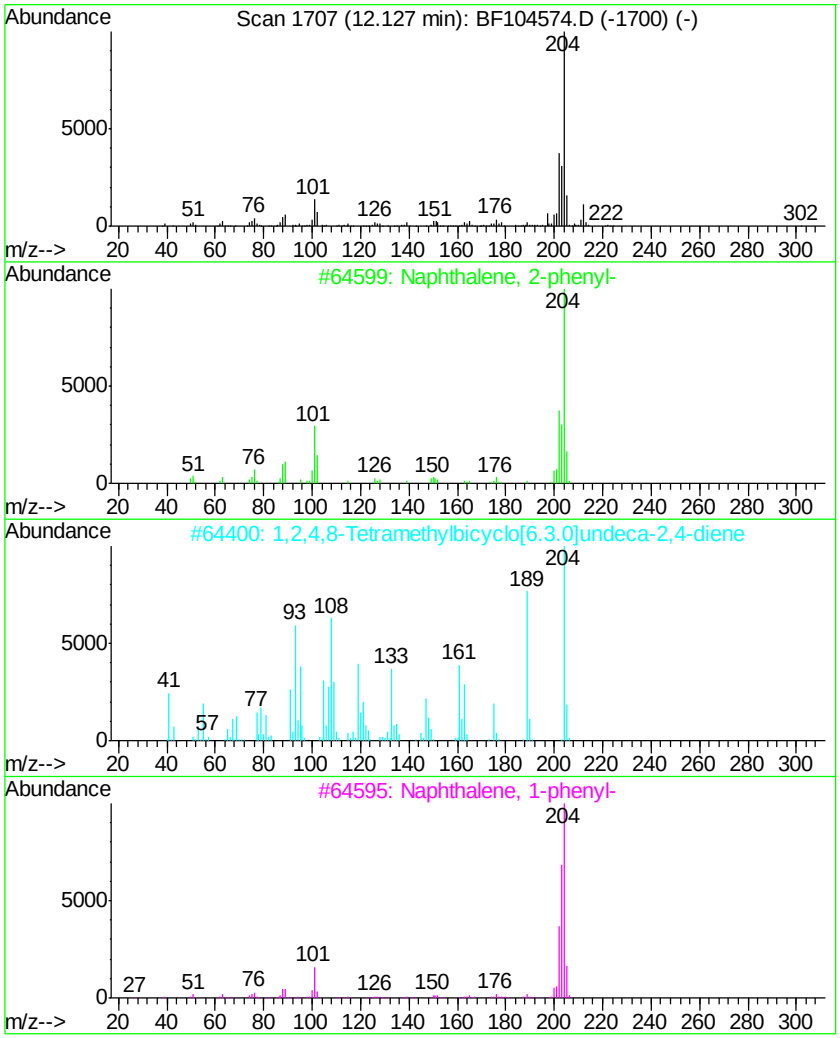
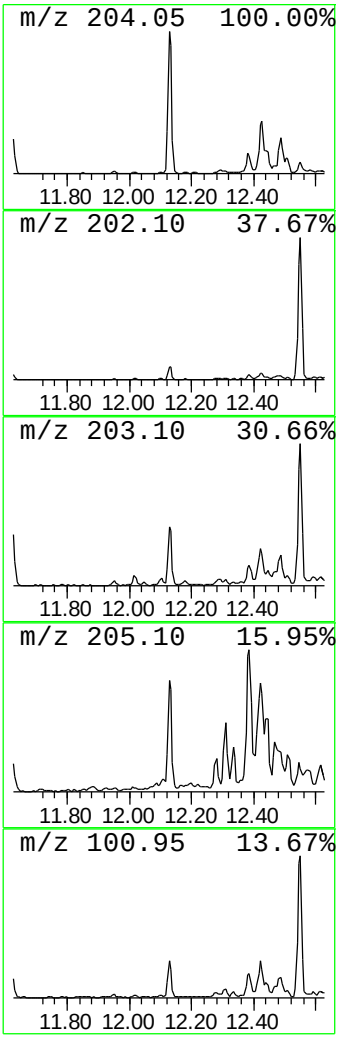
Peak Number 14 Naphthalene, 2-phenyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	11.84 ng	573501	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	83
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	83
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	80
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	59





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Acq On : 17 Apr 2018 21:03
Operator : JU/SJ
Sample : J2387-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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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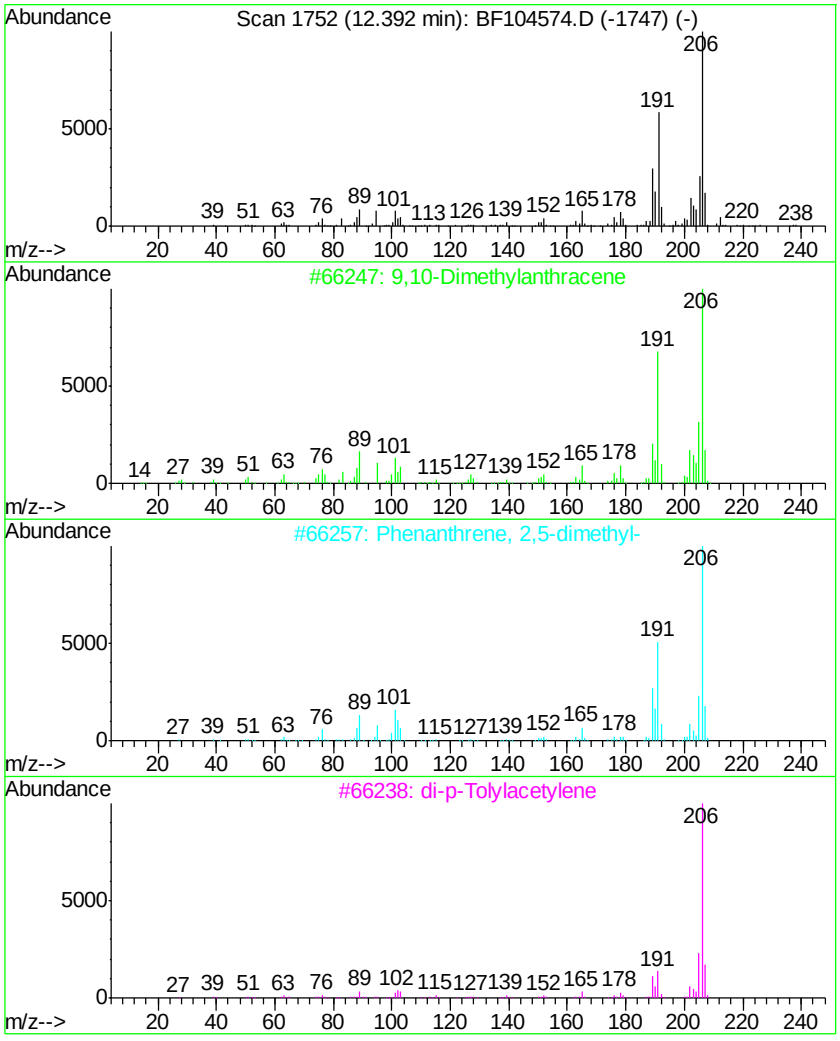
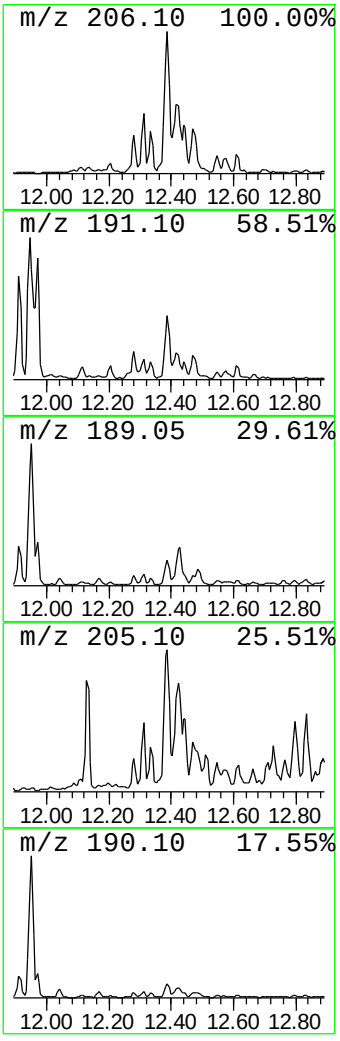
Peak Number 15 9,10-Dimethylanthracene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	12.02 ng	582126	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90





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Acq On : 17 Apr 2018 21:03
Operator : JU/SJ
Sample : J2387-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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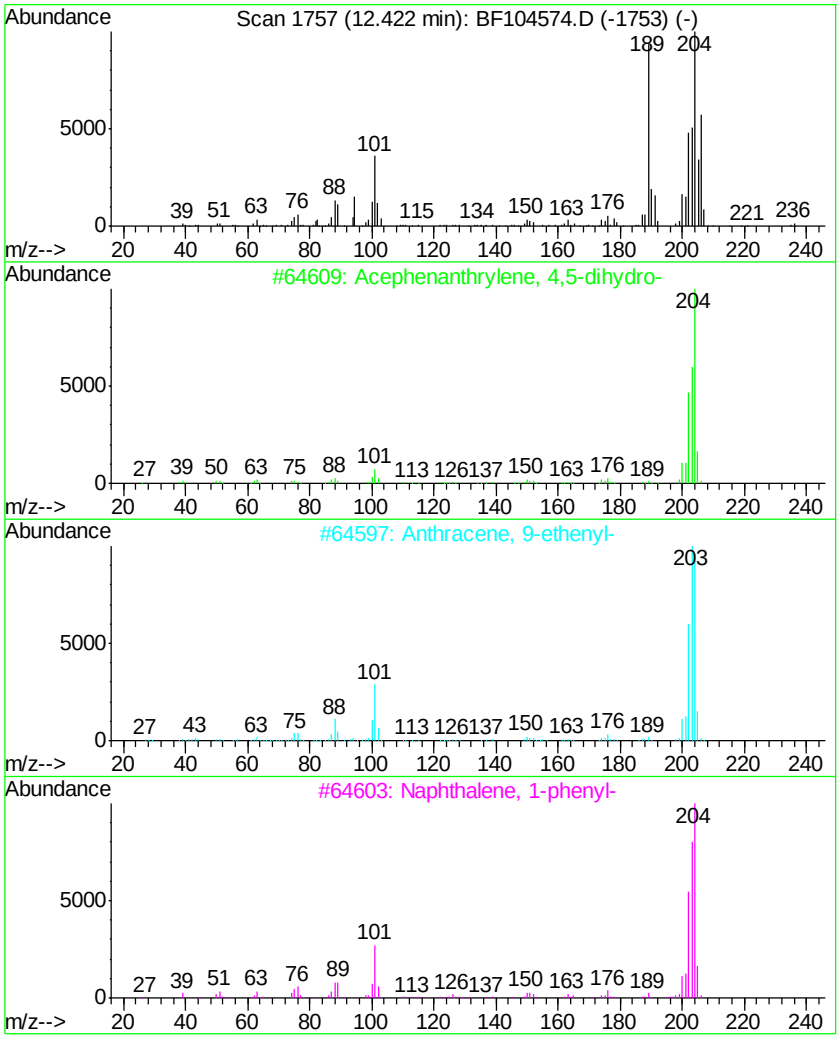
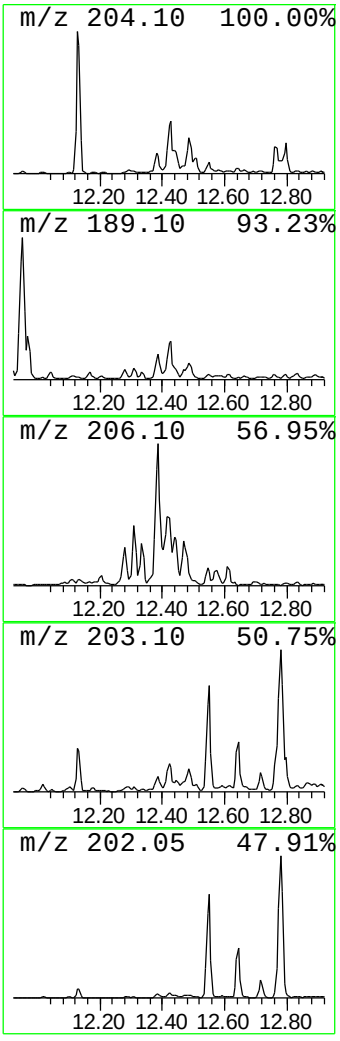
Peak Number 16 Acephenanthrylene, 4,5-dihy... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	11.46 ng	554757	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	60
2	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	52
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	51
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	47
5	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	46





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041718\
Data File : BF104574.D
Acq On : 17 Apr 2018 21:03
Operator : JU/SJ
Sample : J2387-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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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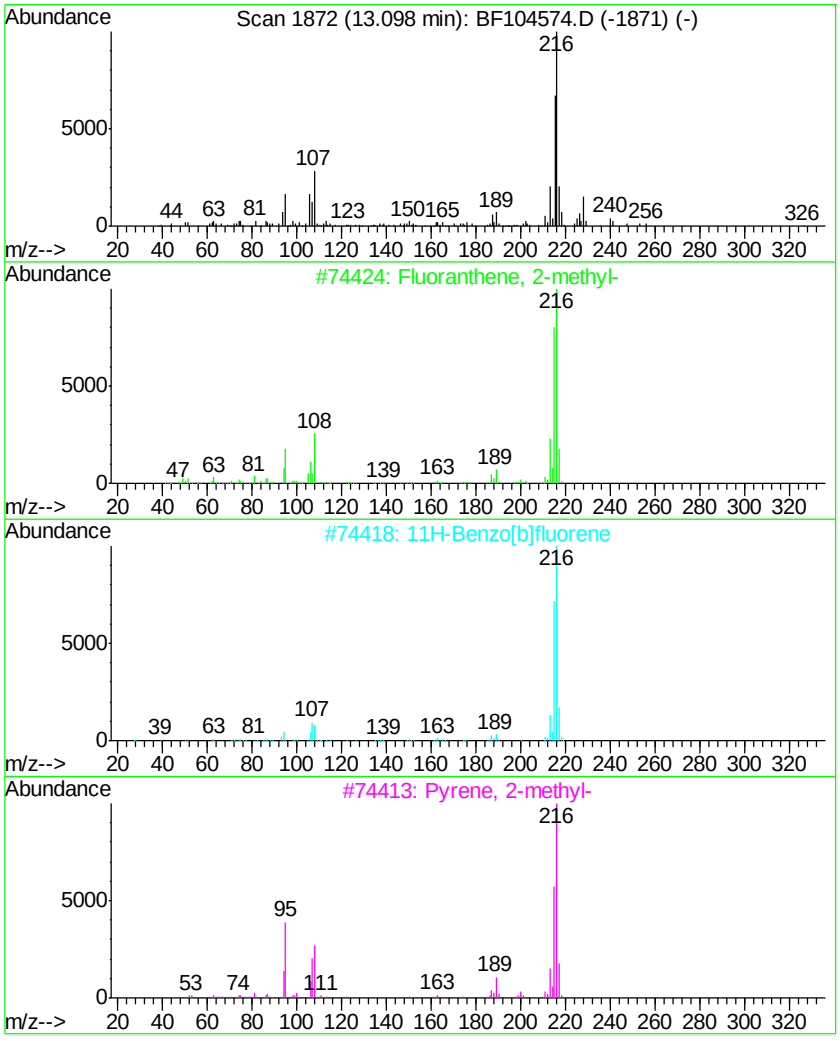
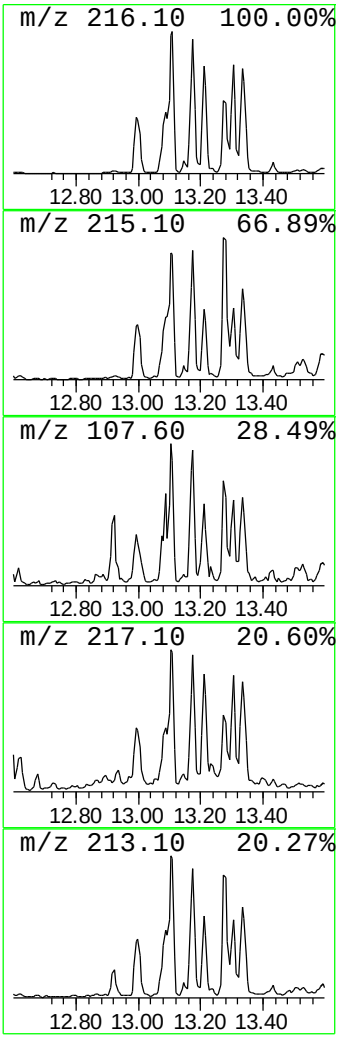
Peak Number 18 Fluoranthene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.10	6.30 ng	759492	Chrysene-d12	13.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87





Data Path : Z:\HPCHEM1\BNA F\DATA\BF041718\
Data File : BF104574.D
Acq On : 17 Apr 2018 21:03
Operator : JU/SJ
Sample : J2387-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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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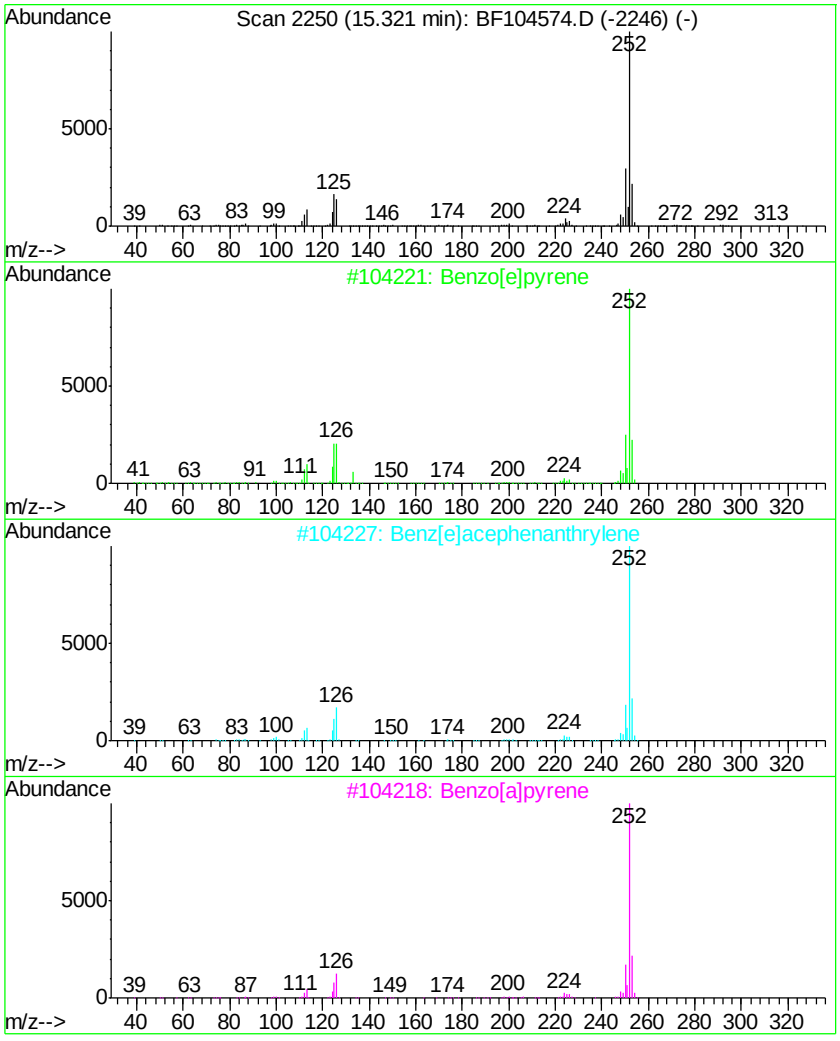
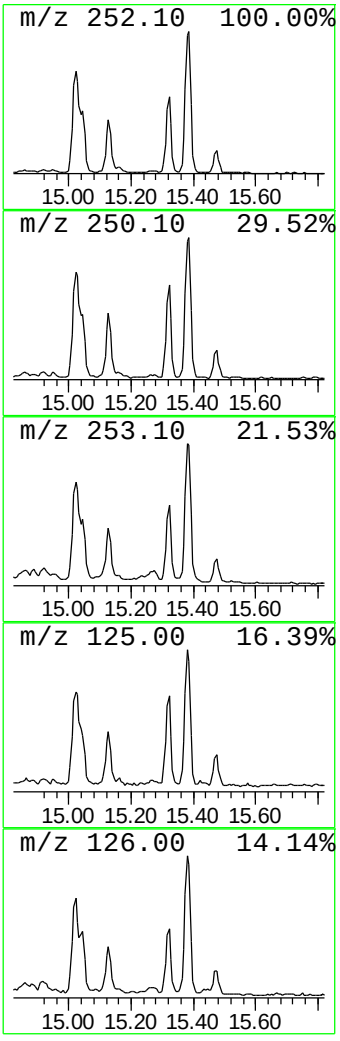
Peak Number 20 Benzo[e]pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.32	12.14 ng	443937	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	97
3	Benzo[a]pyrene	252	C20H12	000050-32-8	96
4	Perylene	252	C20H12	000198-55-0	95
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041718\
Data File : BF104574.D
Acq On : 17 Apr 2018 21:03
Operator : JU/SJ
Sample : J2387-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 20180243-COMPOSITE-E

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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
unknown6.57	6.57	63.6	ng	2624080	1	6.80	824628	20.0
Naphthalene, 1-me...	8.90	6.3	ng	337410	2	8.09	1070950	20.0
Naphthalene, 2,6-...	9.43	9.8	ng	553383	3	9.85	1134920	20.0
Naphthalene, 2,3-...	9.50	11.1	ng	631483	3	9.85	1134920	20.0
9H-Fluorene, 2-me...	10.94	7.8	ng	377189	4	11.33	968447	20.0
Naphtho[2,1-b]thi...	11.23	9.5	ng	459255	4	11.33	968447	20.0
Anthracene, 2-met...	11.83	18.1	ng	875009	4	11.33	968447	20.0
Phenanthrene, 2-m...	11.86	15.9	ng	767904	4	11.33	968447	20.0
4H-Cyclopenta[def...	11.95	30.2	ng	1464260	4	11.33	968447	20.0
Phenanthrene, 4-m...	11.97	9.0	ng	437183	4	11.33	968447	20.0
Naphthalene, 2-ph...	12.13	11.8	ng	573501	4	11.33	968447	20.0
9,10-Dimethylanth...	12.39	12.0	ng	582126	4	11.33	968447	20.0
Acephenanthrylene...	12.42	11.5	ng	554757	4	11.33	968447	20.0
Fluoranthene, 2-m...	13.10	6.3	ng	759492	5	13.98	2412630	20.0
Benzo[e]pyrene	15.32	12.1	ng	443937	6	15.44	731184	20.0