LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071719\
Data File : BF115637.D
Acq On : 17 Jul 2019 22:06
Operator : HP/JU
Sample : K3852-01 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1_071619

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-BF071219.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	2.193	12	18	24	rBV	981414	1255973	30.21%	2.346%
2	5.504	576	581	584	rBV	2106413	1952357	46.96%	3.647%
3	6.510	747	752	759	rBV	2070353	2139553	51.46%	3.996%
4	6.651	769	776	779	rBV	2517575	2233600	53.72%	4.172%
5	6.880	812	815	819	rBV	1483846	1232576	29.64%	2.302%
6	7.039	838	842	845	rBV	2093630	1786687	42.97%	3.337%
7	7.439	901	910	913	rBV	1423761	1320798	31.77%	2.467%
8	7.533	921	926	929	rVB4	25737	41976	1.01%	0.078%
9	8.163	1028	1033	1036	rBV	1627003	1327757	31.93%	2.480%
10	9.233	1211	1215	1218	rBV	2626602	2108538	50.71%	3.938%
11	9.598	1275	1277	1279	rBV	54975	43567	1.05%	0.081%
12	9.621	1279	1281	1290	rVB	319723	252433	6.07%	0.471%
13	9.757	1301	1304	1312	rVB2	53060	59795	1.44%	0.112%
14	9.916	1327	1331	1334	rBV	1496473	1323163	31.82%	2.471%
15	9.945	1334	1336	1340	rVB	487782	363248	8.74%	0.678%
16	10.116	1361	1365	1369	rBV	144114	120254	2.89%	0.225%
17	10.427	1415	1418	1420	rBV	58412	45933	1.10%	0.086%
18	10.457	1420	1423	1429	rVB	285968	253261	6.09%	0.473%
19	10.616	1448	1450	1454	rVB	52943	42175	1.01%	0.079%
20	10.698	1460	1464	1471	rBV	1161373	1030301	24.78%	1.924%
21	10.821	1482	1485	1492	rVB5	36347	44800	1.08%	0.084%
22	11.010	1510	1517	1519	rBV3	41887	62270	1.50%	0.116%
23	11.198	1546	1549	1554	rVB	82763	71099	1.71%	0.133%
24	11.245	1554	1557	1562	rVV3	24068	46445	1.12%	0.087%
25	11.292	1562	1565	1571	rVB	182264	146916	3.53%	0.274%
26	11.398	1579	1583	1585	rBV	1238984	1186084	28.53%	2.215%
27	11.427	1585	1588	1590	rVV	2882228	2635821	63.39%	4.923%
28	11.474	1590	1596	1599	rVV	814144	796212	19.15%	1.487%
29	11.504	1599	1601	1605	rVB	51880	44592	1.07%	0.083%
30	11.621	1616	1621	1624	rBV2	236171	229537	5.52%	0.429%
31	11.692	1629	1633	1636	rVV3	71774	64064	1.54%	0.120%
32	11.898	1662	1668	1670	rBV	206021	197344	4.75%	0.369%
33	11.921	1670	1672	1676	rVV2	391398	395089	9.50%	0.738%
34	11.974	1677	1681	1683	rVV	109033	107312	2.58%	0.200%

LSC Area Percent Report

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Acq On : 17 Jul 2019 22:06
Operator : HP/JU
Sample : K3852-01 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1_071619

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-BF071219.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.010	1683	1687	1690	rVV	573038	572836	13.78%	1.070%
36	12.033	1690	1691	1695	rVB	124215	64173	1.54%	0.120%
37	12.192	1714	1718	1720	rBV	225823	199269	4.79%	0.372%
38	12.210	1720	1721	1725	rVB	162281	137298	3.30%	0.256%
39	12.445	1758	1761	1764	rBV2	83313	95354	2.29%	0.178%
40	12.486	1764	1768	1770	rVV	71446	74753	1.80%	0.140%
41	12.533	1773	1776	1781	rVB	112658	120444	2.90%	0.225%
42	12.615	1785	1790	1793	rVV	4092044	3937733	94.71%	7.355%
43	12.668	1793	1799	1802	rVV2	76957	108092	2.60%	0.202%
44	12.704	1802	1805	1807	rVV	68929	65865	1.58%	0.123%
45	12.757	1807	1814	1822	rVV2	139811	254956	6.13%	0.476%
46	12.845	1822	1829	1832	rVV	3539540	4157860	100.00%	7.766%
47	12.886	1833	1836	1842	rVB	113381	127652	3.07%	0.238%
48	12.974	1848	1851	1858	rVB2	1617703	1708106	41.08%	3.190%
49	13.057	1859	1865	1868	rBV3	149928	280082	6.74%	0.523%
50	13.080	1868	1869	1872	rVB	103559	68307	1.64%	0.128%
51	13.121	1872	1876	1877	rBV2	41242	50165	1.21%	0.094%
52	13.139	1877	1879	1881	rVV3	118945	147062	3.54%	0.275%
53	13.162	1881	1883	1886	rVB	457972	397308	9.56%	0.742%
54	13.227	1891	1894	1897	rVV	355609	317394	7.63%	0.593%
55	13.268	1897	1901	1903	rVV2	230100	229415	5.52%	0.428%
56	13.292	1903	1905	1908	rVB	91701	80060	1.93%	0.150%
57	13.321	1908	1910	1913	rBV2	44482	46512	1.12%	0.087%
58	13.362	1914	1917	1919	rVB	84214	71590	1.72%	0.134%
59	13.392	1919	1922	1925	rBV	123451	127080	3.06%	0.237%
60	13.539	1944	1947	1948	rBV3	52263	52815	1.27%	0.099%
61	13.668	1966	1969	1973	rVB	153408	165603	3.98%	0.309%
62	13.780	1984	1988	1991	rBV2	275584	330934	7.96%	0.618%
63	13.809	1991	1993	1995	rVV	261960	220948	5.31%	0.413%
64	13.833	1995	1997	2001	rVV2	308772	363045	8.73%	0.678%
65	13.874	2001	2004	2007	rVV2	170127	162267	3.90%	0.303%
66	14.027	2023	2030	2033	rBV3	2221183	3173850	76.33%	5.928%
67	14.062	2033	2036	2041	rVB	1780872	1674320	40.27%	3.127%
68	14.139	2046	2049	2052	rVV	487431	378161	9.10%	0.706%
69	14.174	2052	2055	2057	rVV	94017	96767	2.33%	0.181%
70	14.215	2060	2062	2065	rVB2	140471	125121	3.01%	0.234%
71	14.251	2065	2068	2072	rBV2	227632	253683	6.10%	0.474%

LSC Area Percent Report

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Operator : HP/JU
Sample : K3852-01 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1_071619

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-BF071219.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.451	2100	2102	2105	rVB	107871	90498	2.18%	0.169%
73	14.545	2115	2118	2119	rBV	147166	134179	3.23%	0.251%
74	14.562	2119	2121	2125	rVB	202672	183563	4.41%	0.343%
75	15.074	2204	2208	2211	rBV	1177063	1836808	44.18%	3.431%
76	15.180	2224	2226	2230	rVB	221991	230052	5.53%	0.430%
77	15.380	2256	2260	2266	rVB	730041	973272	23.41%	1.818%
78	15.445	2266	2271	2277	rVV	1054788	1351501	32.50%	2.524%
79	15.503	2277	2281	2284	rVV	632096	847893	20.39%	1.584%
80	15.533	2284	2286	2292	rVB	434773	497271	11.96%	0.929%
81	16.974	2525	2531	2538	rVB2	560129	1084003	26.07%	2.025%
82	17.415	2601	2606	2621	rVB	420381	912522	21.95%	1.704%

Sum of corrected areas: 53539972

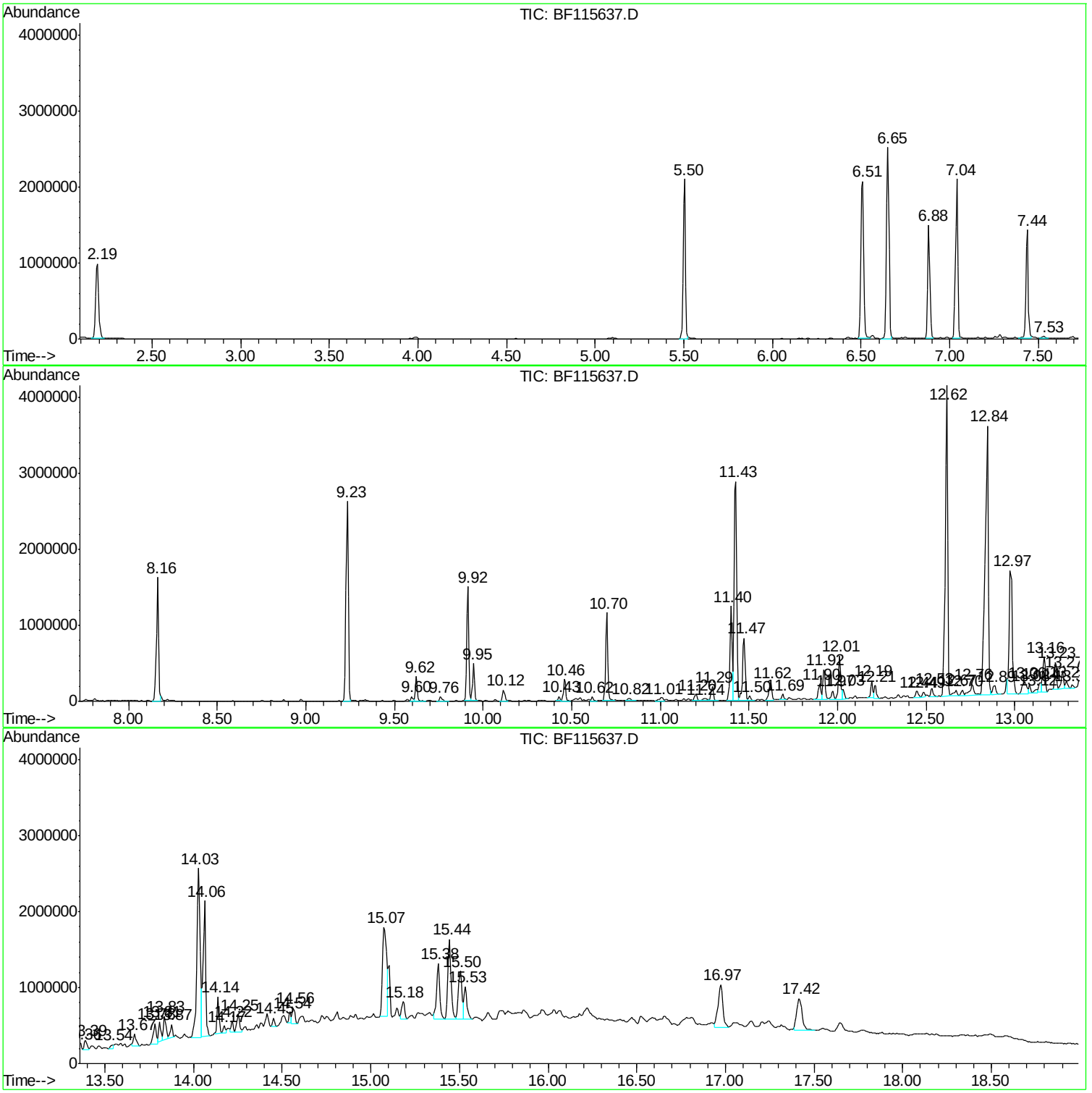
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071719\
Data File : BF115637.D
Acq On : 17 Jul 2019 22:06
Operator : HP/JU
Sample : K3852-01 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1_071619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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\BF071719\
Data File : BF115637.D
Acq On : 17 Jul 2019 22:06
Operator : HP/JU
Sample : K3852-01 2X
Misc :
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Instrument : BNA_F
ClientSampleId : COMP-1_071619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

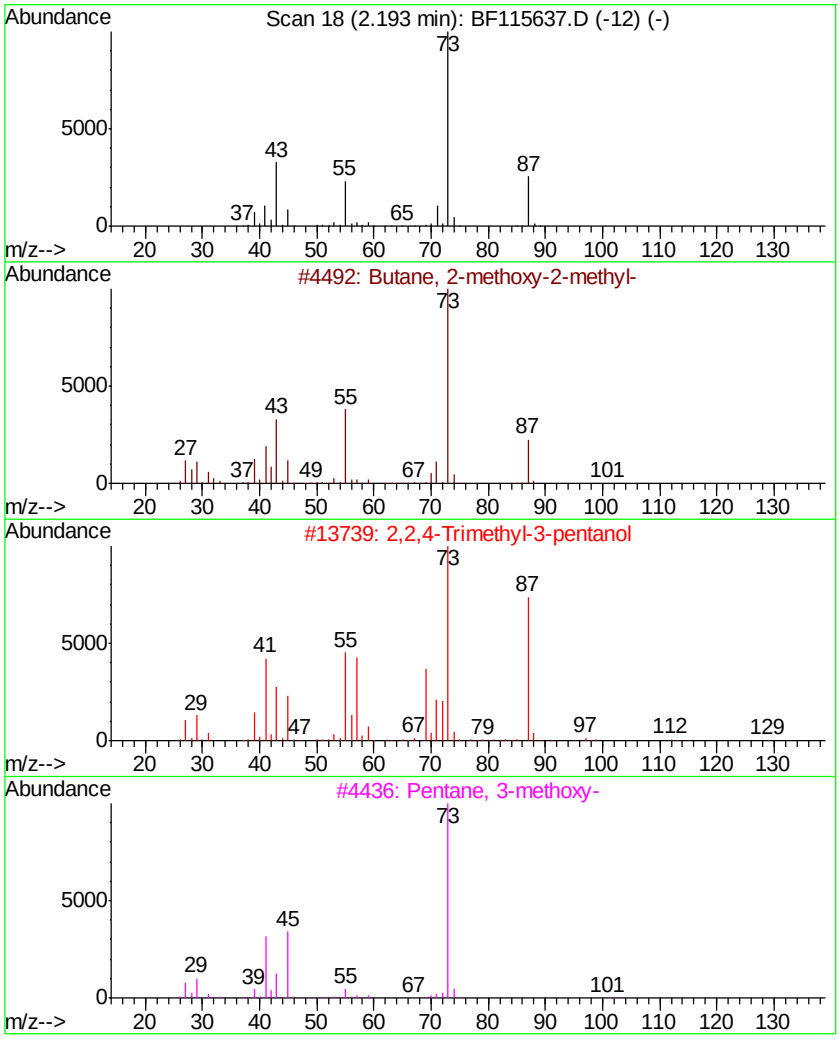
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

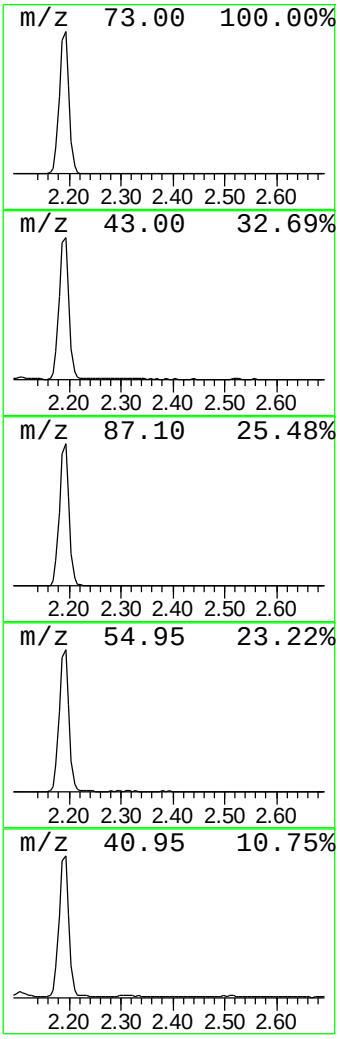
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.19	20.38 ng	1255970	1,4-Dichlorobenzene-d4	6.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
4	Borane, dimethoxy-	74	C2H7BO2	004542-61-4	9
5	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071719\
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Instrument : BNA_F
ClientSampleId : COMP-1_071619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

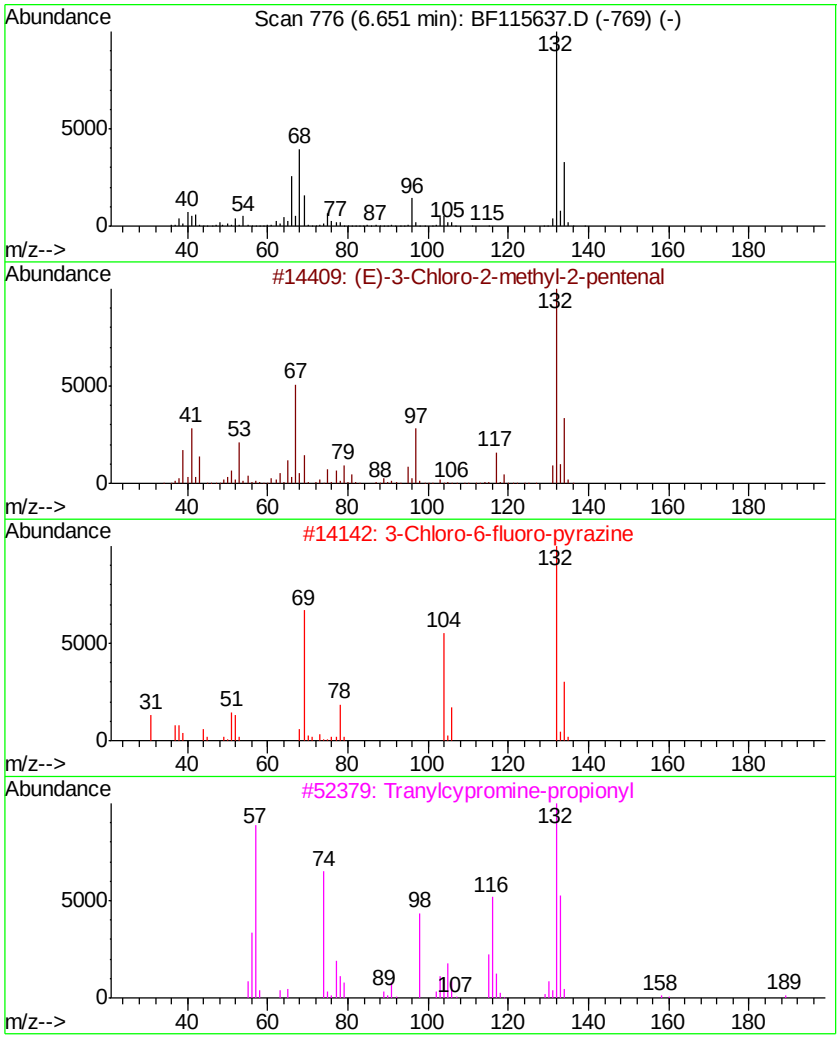
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

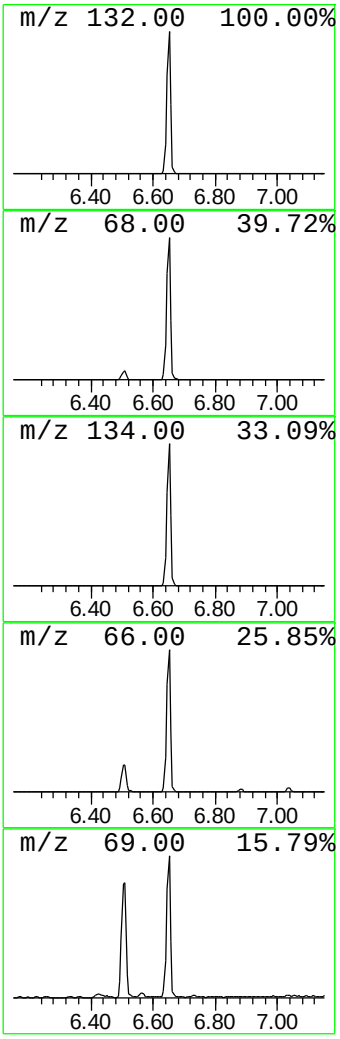
****

Peak Number 2 unknown6.65 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.65	36.24 ng	2233600	1,4-Dichlorobenzene-d4	6.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
2	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9





Library Search Compound Report

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Data File : BF115637.D
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Misc :
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Instrument : BNA_F
ClientSampleId : COMP-1_071619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

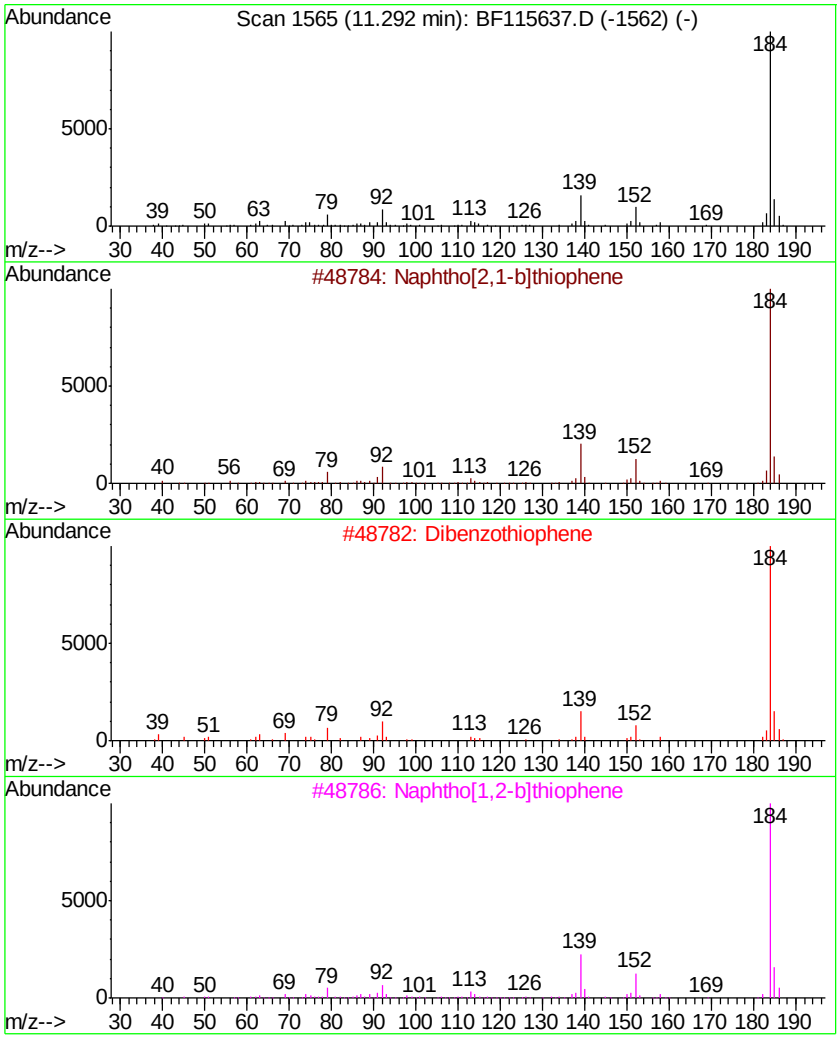
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

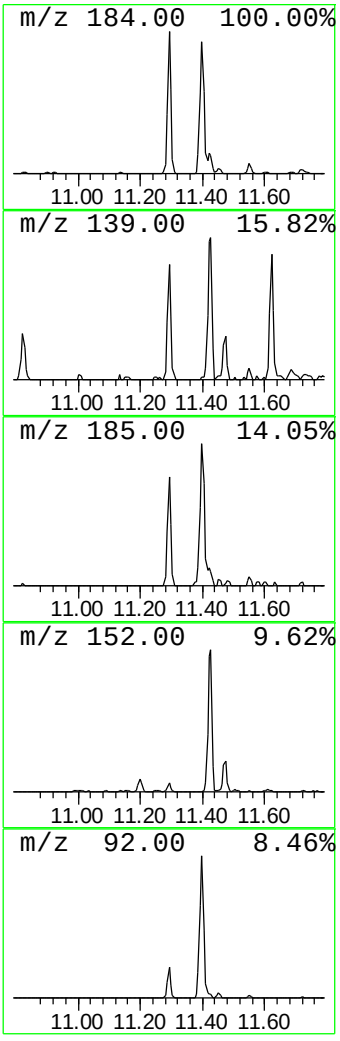
****

Peak Number 4 Naphtho[2,1-b]thiophene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	2.48 ng	146916	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	96
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	96
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





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Sample : K3852-01 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1_071619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

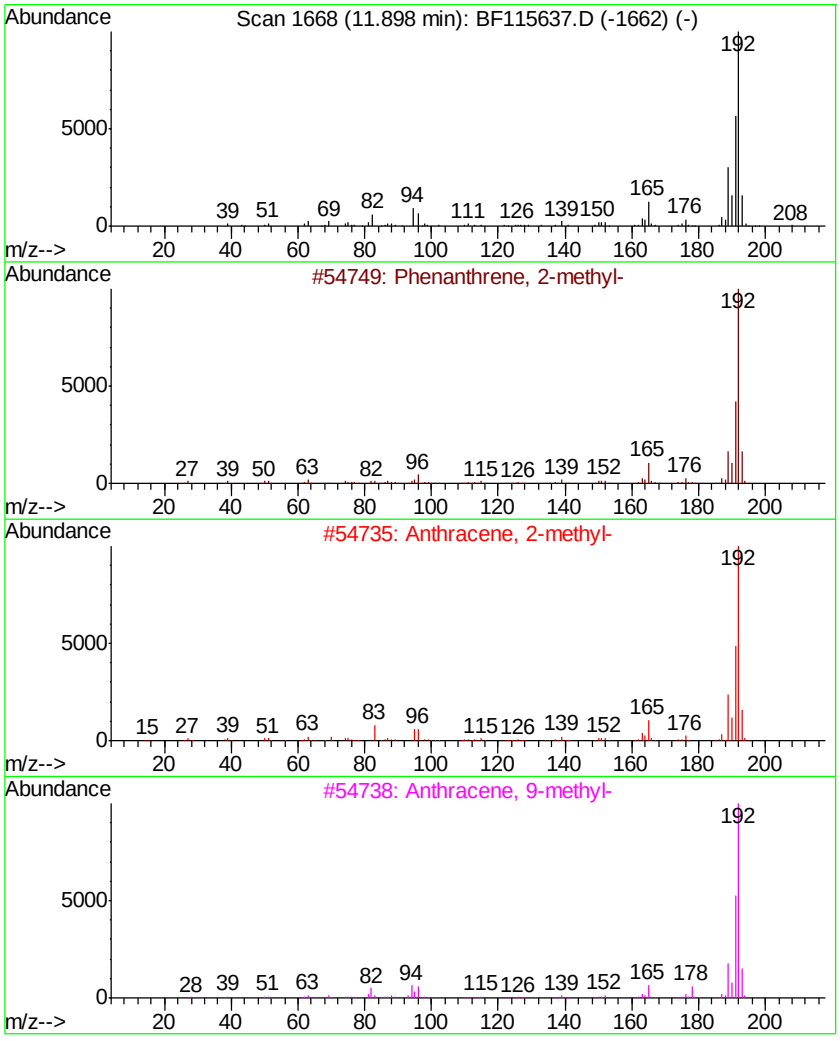
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

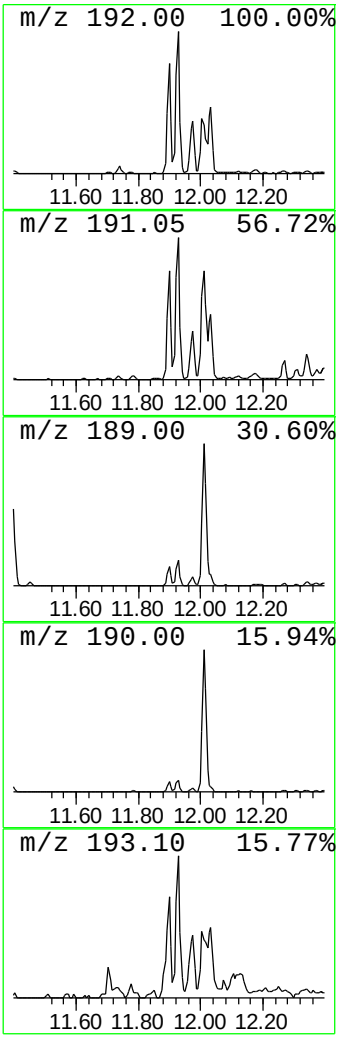
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	3.33 ng	197344	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	89





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Data File : BF115637.D
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Sample : K3852-01 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1_071619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

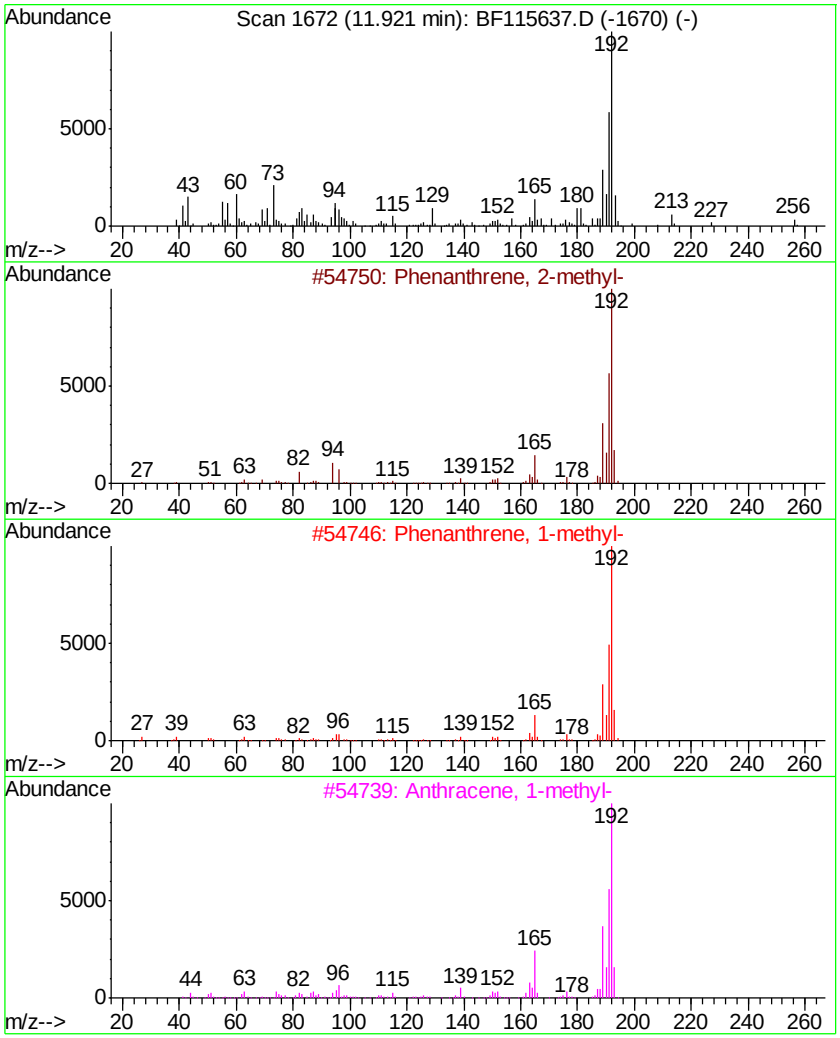
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

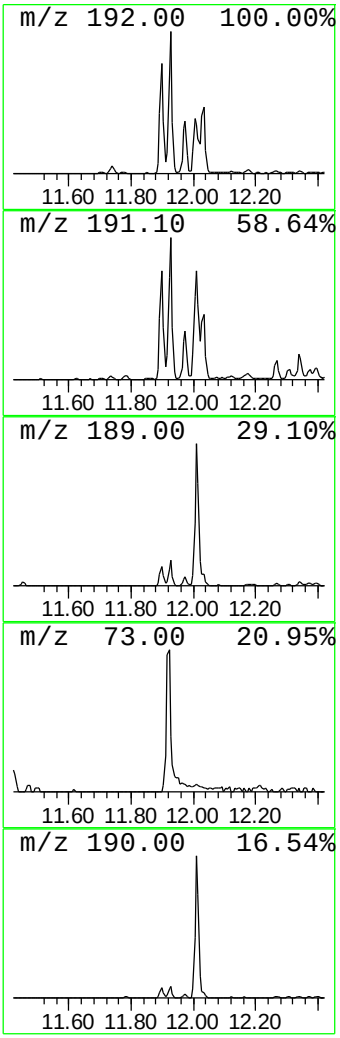
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	6.66 ng	395089	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96





Library Search Compound Report

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Data File : BF115637.D
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Misc :
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Instrument : BNA_F
ClientSampleId : COMP-1_071619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

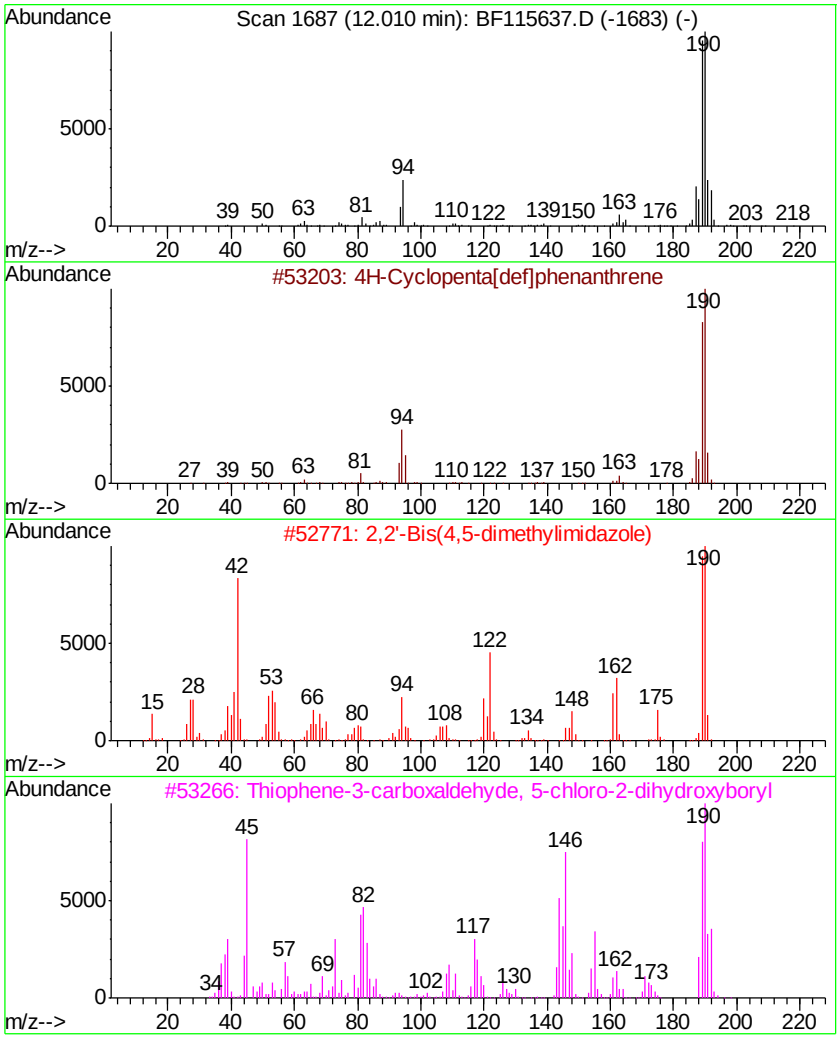
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

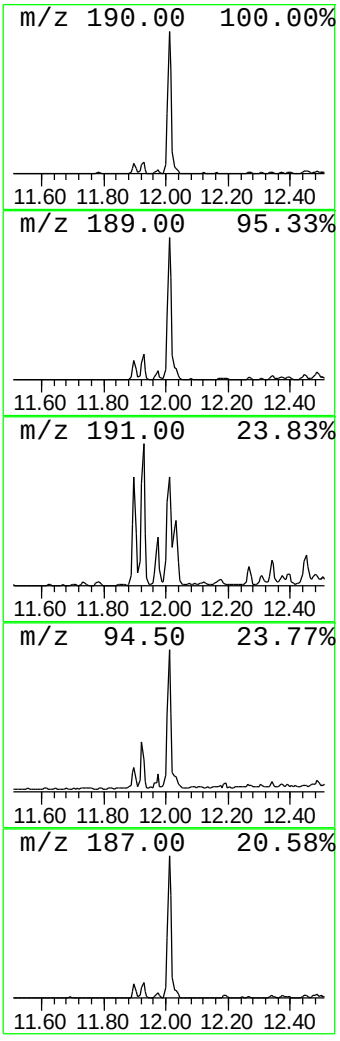
****

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	9.66 ng	572836	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	40
4	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25
5	2-Naphthaldehyde, 1,2,3,4-tetrah...	190	C12H14O2	002472-02-8	18





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Data File : BF115637.D
Acq On : 17 Jul 2019 22:06
Operator : HP/JU
Sample : K3852-01 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1_071619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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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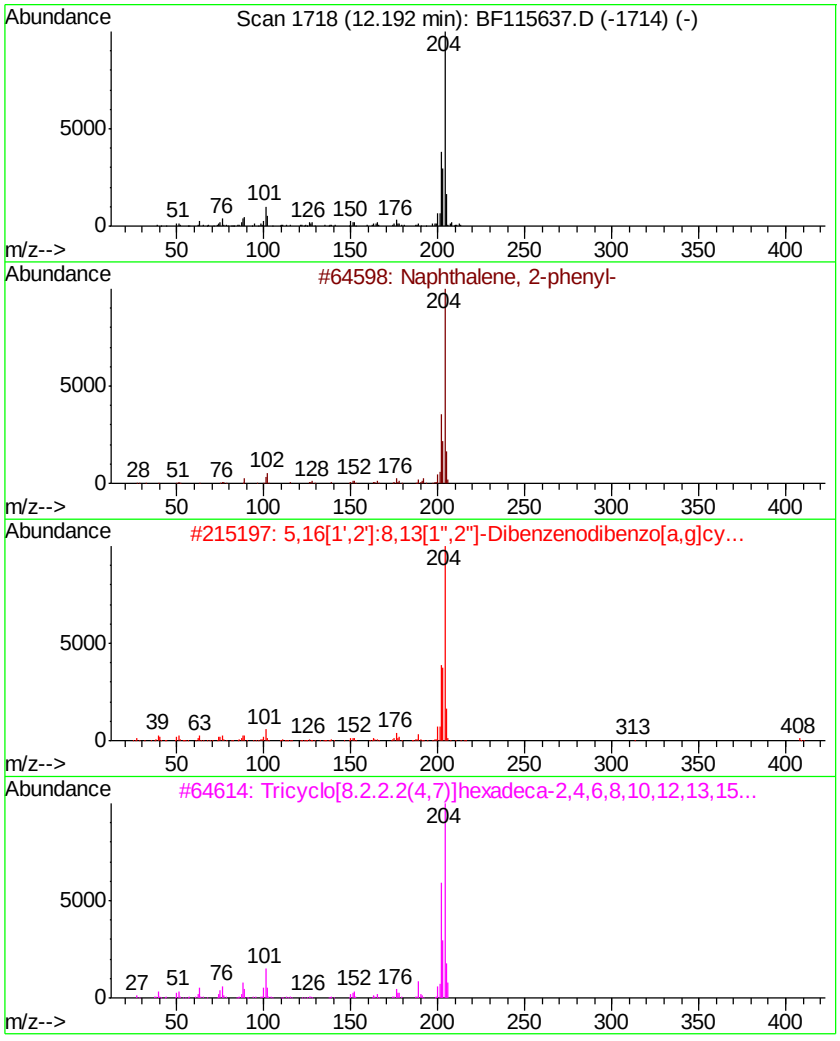
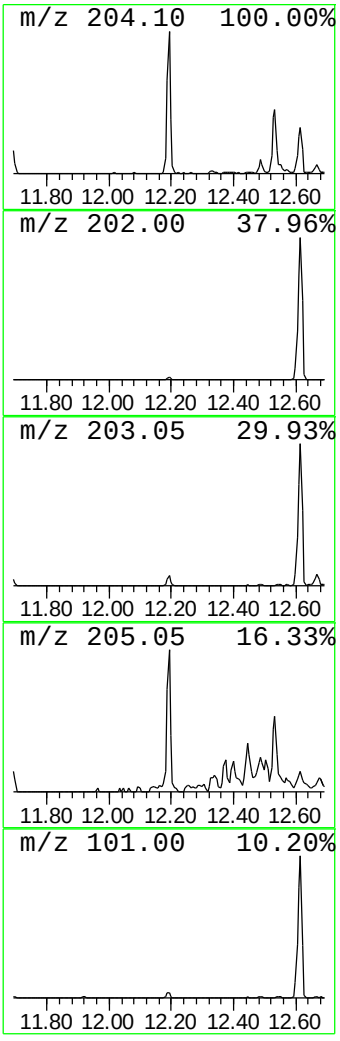
Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	3.36 ng	199269	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	62
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	53





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Acq On : 17 Jul 2019 22:06
Operator : HP/JU
Sample : K3852-01 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1_071619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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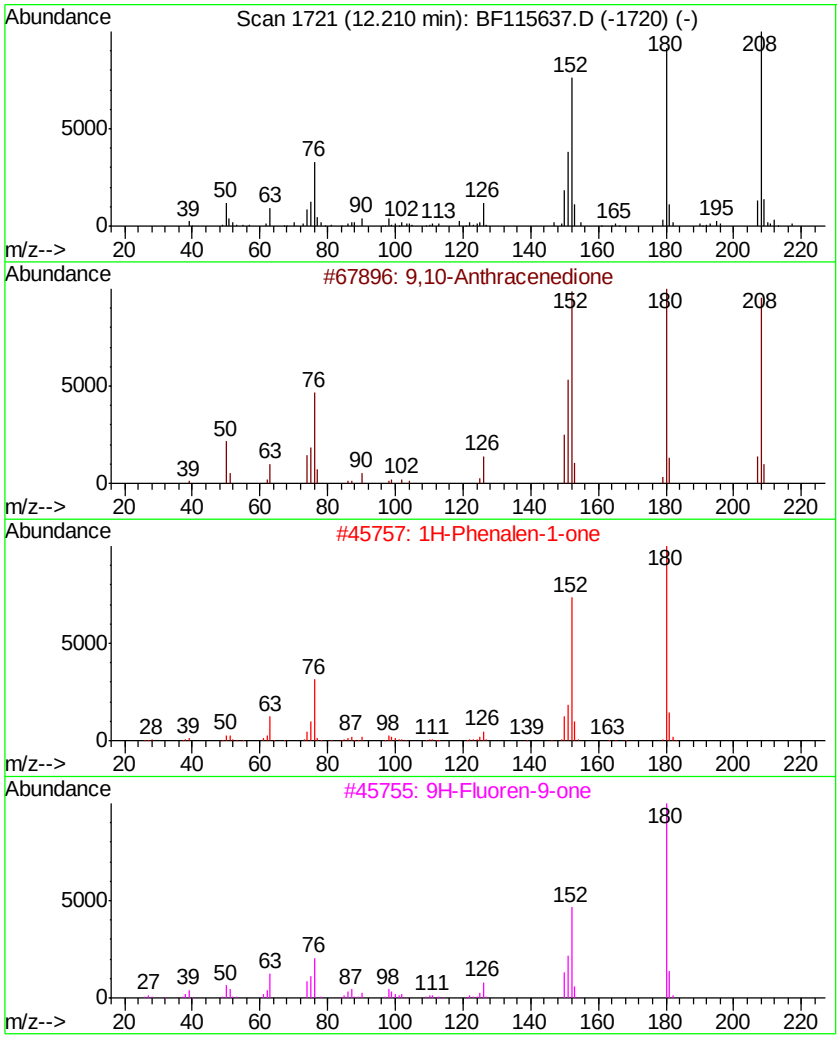
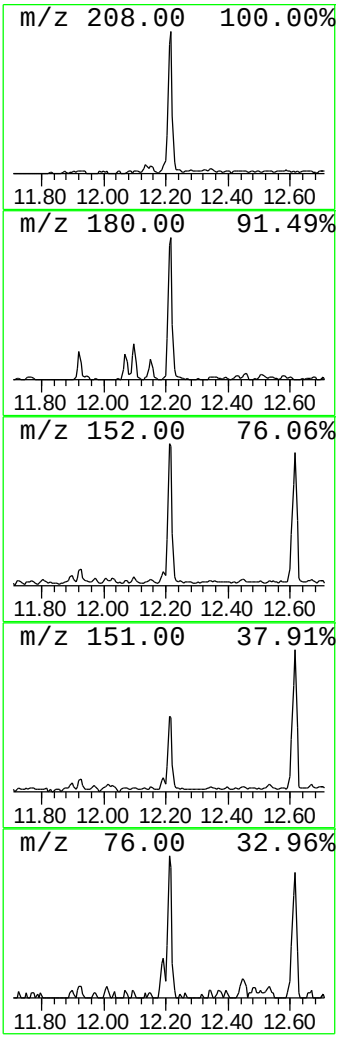
Peak Number 9 9,10-Anthracenedione Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.21	2.32 ng	137298	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	64
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	58
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	58





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ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1_071619

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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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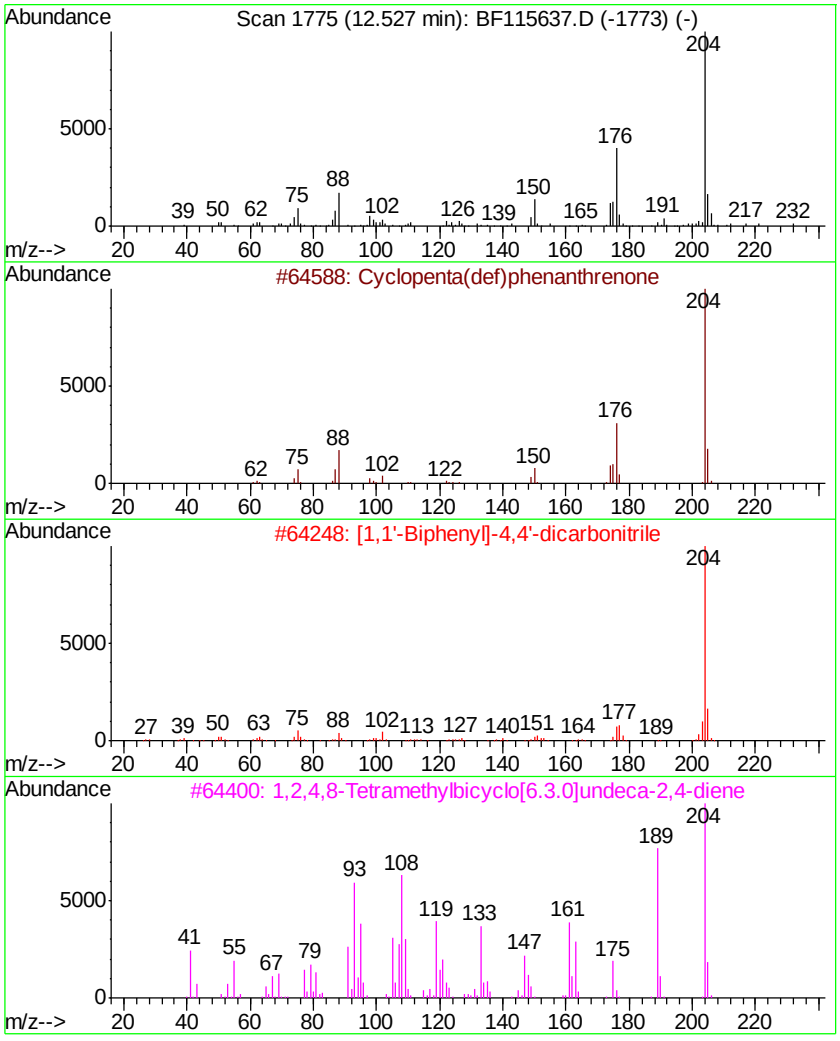
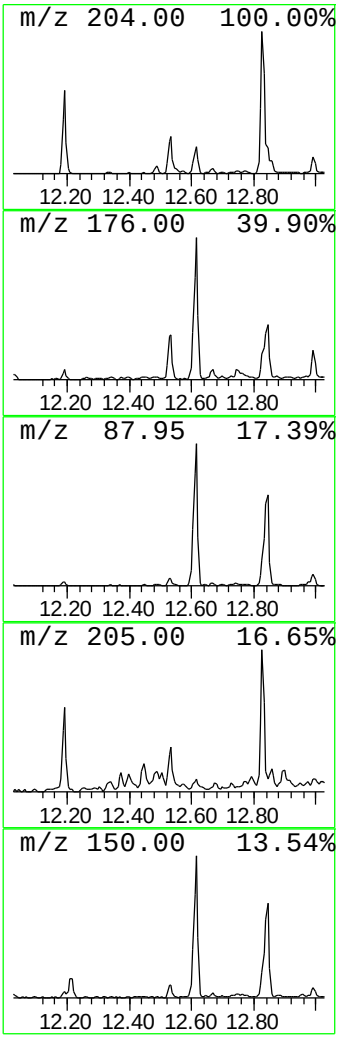
Peak Number 10 Cyclopenta(def)phenanthrenone Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	2.03 ng	120444	Phenanthrene-d10	11.40

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	91
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	72
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	53
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50
5	Benzo[1,2-b:4,3-b']dithiophene, ...	204	C11H8S2	013640-86-3	49





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Acq On : 17 Jul 2019 22:06
Operator : HP/JU
Sample : K3852-01 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1_071619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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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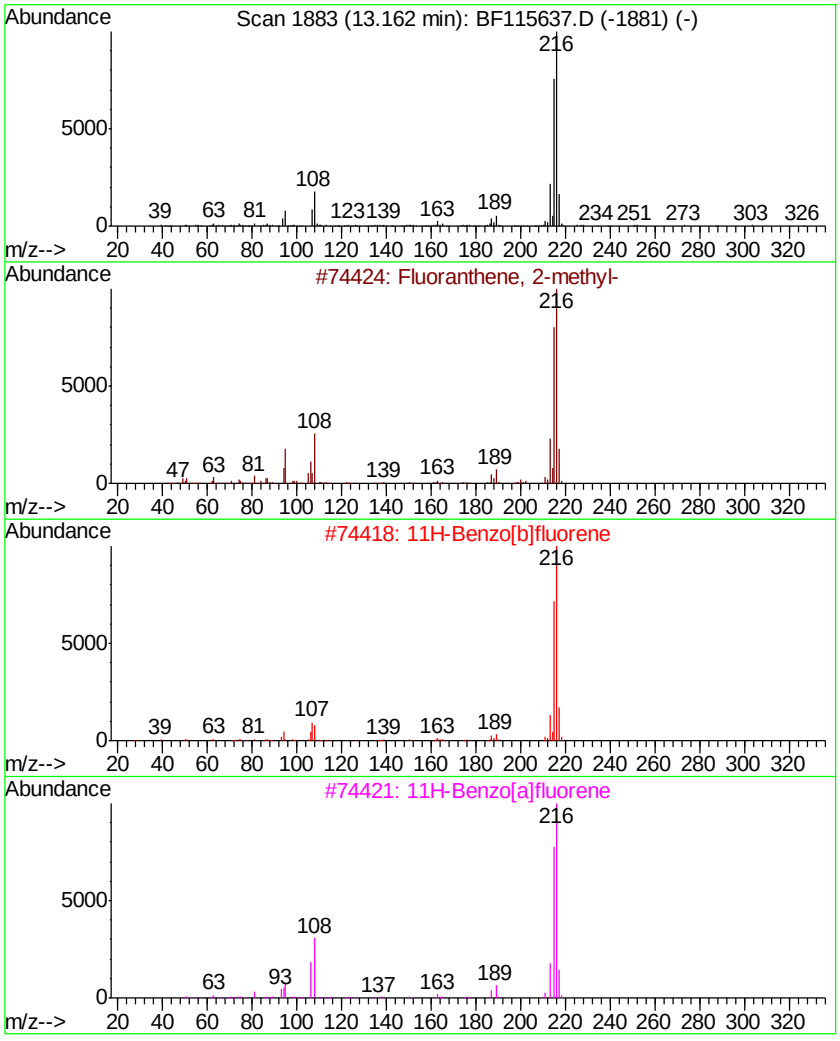
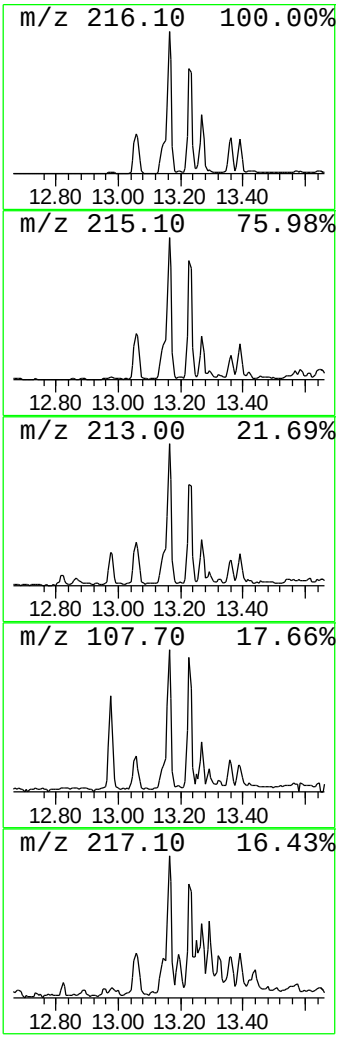
Peak Number 11 11H-Benzo[b]fluorene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.16	2.50 ng	397308	Chrysene-d12	14.03

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	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	87





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Acq On : 17 Jul 2019 22:06
Operator : HP/JU
Sample : K3852-01 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1_071619

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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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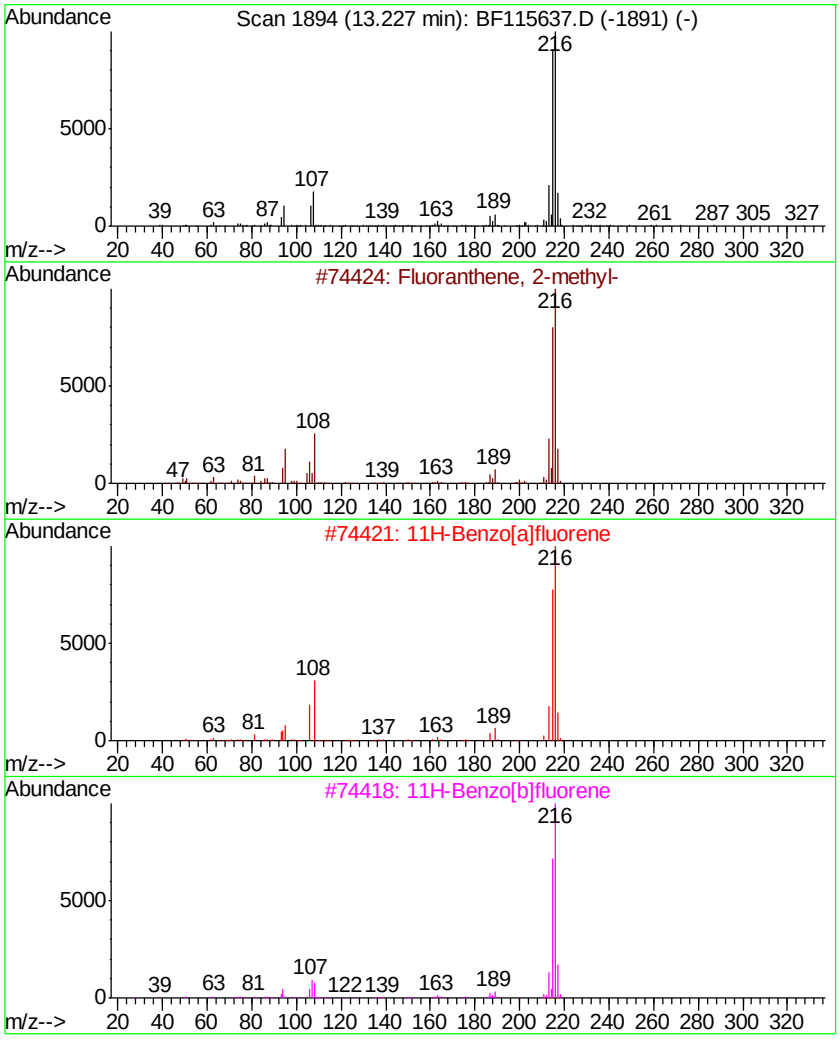
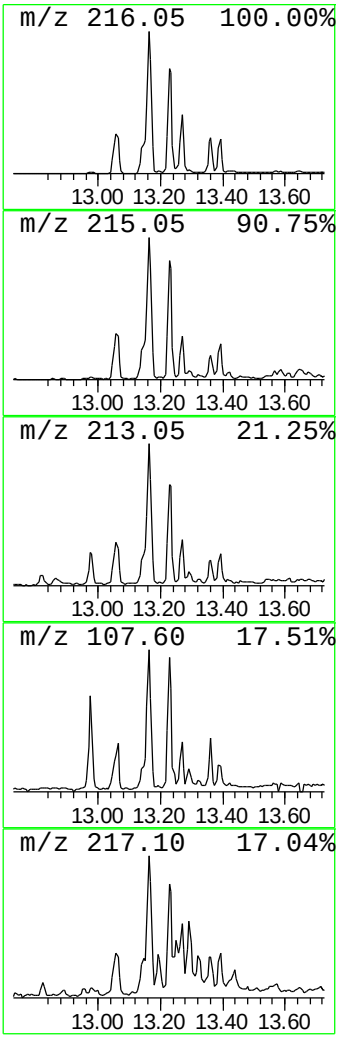
Peak Number 12 11H-Benzo[a]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.23	2.00 ng	317394	Chrysene-d12	14.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





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Acq On : 17 Jul 2019 22:06
Operator : HP/JU
Sample : K3852-01 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1_071619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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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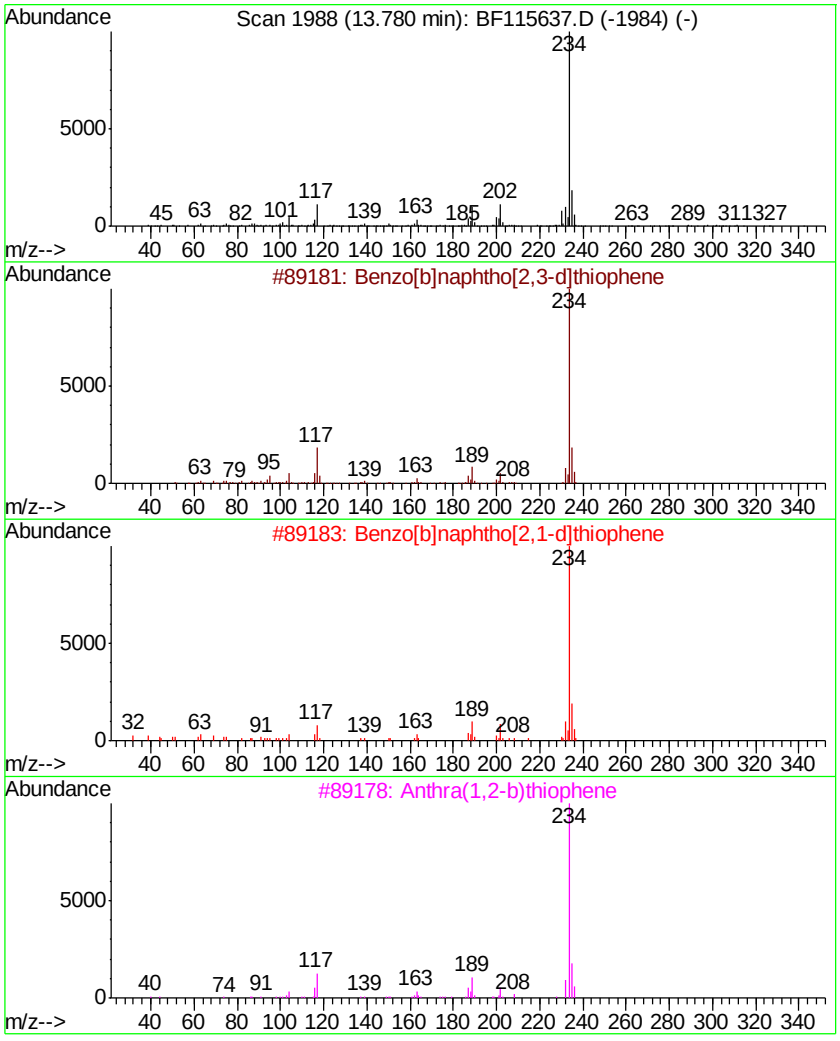
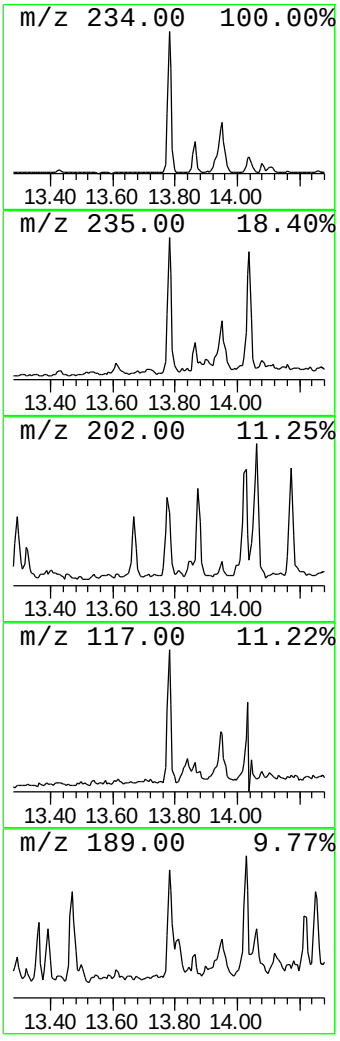
Peak Number 13 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.78	2.09 ng	330934	Chrysene-d12	14.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	95
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
3	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	91
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	90
5	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	72





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Data File : BF115637.D
Acq On : 17 Jul 2019 22:06
Operator : HP/JU
Sample : K3852-01 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1_071619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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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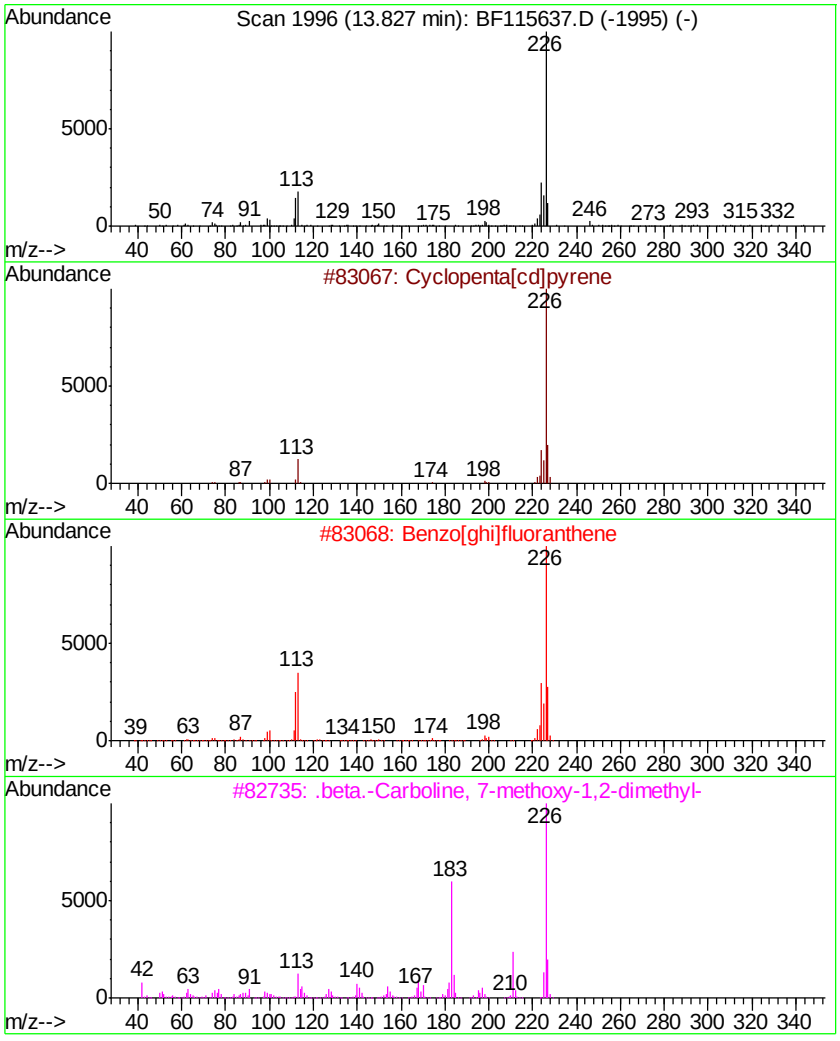
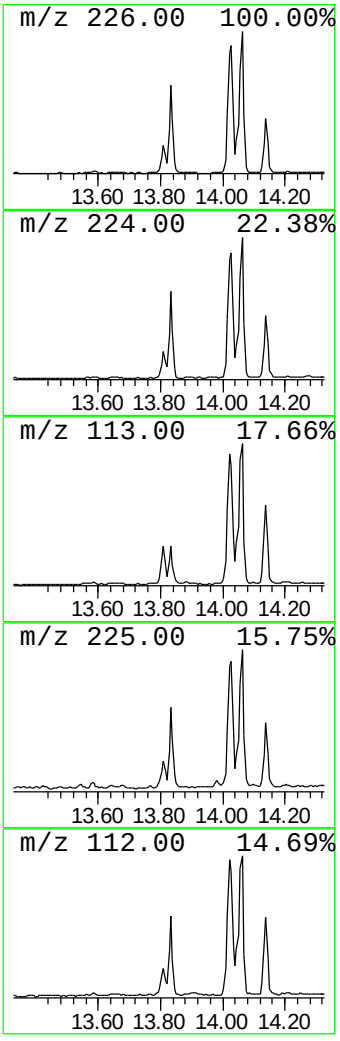
Peak Number 14 Cyclopenta[cd]pyrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.83	2.29 ng	363045	Chrysene-d12	14.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	81
2	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	62
3	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	58
4	4-Naphthalen-2-yl-thiazol-2-ylamine	226	C13H10N2S	1000300-53-4	40
5	1,3-Diamino-5,6-dihydro-7-methyl...	226	C13H14N4	037436-37-6	36





Library Search Compound Report

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Data File : BF115637.D
Acq On : 17 Jul 2019 22:06
Operator : HP/JU
Sample : K3852-01 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1_071619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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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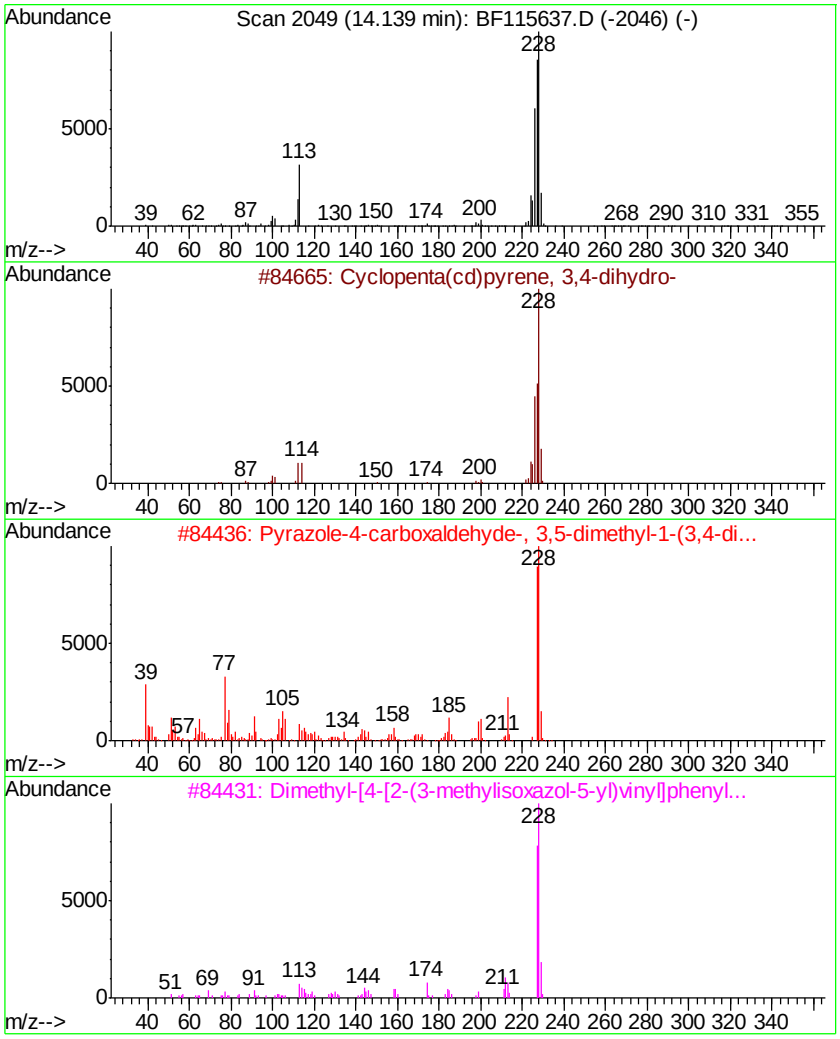
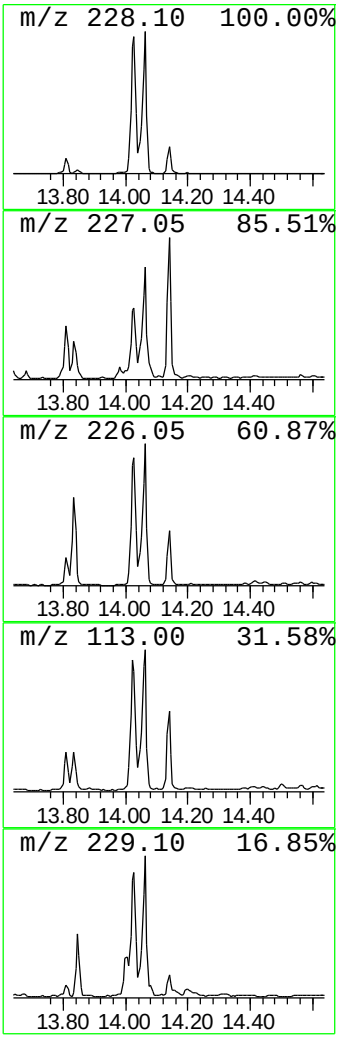
Peak Number 15 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.14	2.38 ng	378161	Chrysene-d12	14.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	95
2	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	50
3	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	50
4	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	47
5	Benzo[c]phenanthrene	228	C18H12	000195-19-7	45





Tentatively Identified Compound (LSC) summary

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Data File : BF115637.D
Acq On : 17 Jul 2019 22:06
Operator : HP/JU
Sample : K3852-01 2X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1_071619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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
Butane, 2-methoxy...	2.19	20.4	ng	1255970	1	6.88	1232580	20.0
unknown6.65	6.65	36.2	ng	2233600	1	6.88	1232580	20.0
Naphtho[2,1-b]thi...	11.29	2.5	ng	146916	4	11.40	1186080	20.0
Phenanthrene, 2-m...	11.90	3.3	ng	197344	4	11.40	1186080	20.0
Phenanthrene, 1-m...	11.92	6.7	ng	395089	4	11.40	1186080	20.0
4H-Cyclopenta[def...	12.01	9.7	ng	572836	4	11.40	1186080	20.0
Naphthalene, 2-ph...	12.19	3.4	ng	199269	4	11.40	1186080	20.0
9,10-Anthracenedione	12.21	2.3	ng	137298	4	11.40	1186080	20.0
Cyclopenta(def)ph...	12.53	2.0	ng	120444	4	11.40	1186080	20.0
11H-Benzo[b]fluorene	13.16	2.5	ng	397308	5	14.03	3173850	20.0
11H-Benzo[a]fluorene	13.23	2.0	ng	317394	5	14.03	3173850	20.0
Benzo[b]naphtho[2...	13.78	2.1	ng	330934	5	14.03	3173850	20.0
Cyclopenta[cd]pyrene	13.83	2.3	ng	363045	5	14.03	3173850	20.0
Cyclopenta(cd)pyr...	14.14	2.4	ng	378161	5	14.03	3173850	20.0