LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102119\
Data File : BF117470.D
Acq On : 22 Oct 2019 1:35
Operator : JU
Sample : K5147-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-02-101819

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-BF101819.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	5.346	551	554	571	rBV	338846	403929	72.23%	4.180%
2	6.375	726	729	748	rBV	441116	464913	83.13%	4.811%
3	6.504	748	751	760	rBV	536458	485209	86.76%	5.021%
4	6.728	786	789	803	rVB	272757	268278	47.97%	2.776%
5	6.887	812	816	826	rBV	414726	356246	63.70%	3.686%
6	7.292	882	885	903	rBV	249295	278711	49.84%	2.884%
7	8.010	1004	1007	1017	rBV	386546	356020	63.66%	3.684%
8	8.728	1127	1129	1135	rBB	5072	6056	1.08%	0.063%
9	8.822	1143	1145	1151	rBB	9229	9762	1.75%	0.101%
10	9.086	1186	1190	1201	rBV	626047	559246	100.00%	5.787%
11	9.357	1232	1236	1244	rBB	6037	8092	1.45%	0.084%
12	9.422	1244	1247	1250	rBV	16139	15720	2.81%	0.163%
13	9.451	1250	1252	1254	rVV	10161	8100	1.45%	0.084%
14	9.481	1254	1257	1263	rVV	56762	50309	9.00%	0.521%
15	9.539	1263	1267	1272	rVB	7910	8697	1.56%	0.090%
16	9.628	1279	1282	1287	rBV	38115	35826	6.41%	0.371%
17	9.763	1301	1305	1308	rBV	487697	395551	70.73%	4.093%
18	9.792	1308	1310	1315	rVB	44011	40135	7.18%	0.415%
19	9.969	1335	1340	1345	rBV2	23722	27877	4.98%	0.288%
20	10.004	1345	1346	1353	rVB2	12167	11923	2.13%	0.123%
21	10.081	1356	1359	1362	rBV	14857	12723	2.28%	0.132%
22	10.169	1370	1374	1376	rBV2	8853	10081	1.80%	0.104%
23	10.192	1376	1378	1381	rVB2	8579	7295	1.30%	0.075%
24	10.310	1395	1398	1404	rBV	59022	60346	10.79%	0.624%
25	10.422	1415	1417	1419	rVV3	8723	6486	1.16%	0.067%
26	10.469	1422	1425	1428	rVB2	13032	13517	2.42%	0.140%
27	10.551	1436	1439	1450	rVB	299586	281127	50.27%	2.909%
28	10.675	1456	1460	1466	rBV4	12651	21109	3.77%	0.218%
29	10.751	1471	1473	1476	rBV2	5974	6745	1.21%	0.070%
30	10.863	1487	1492	1494	rBV2	22672	29024	5.19%	0.300%
31	10.886	1494	1496	1500	rVV	18614	18408	3.29%	0.190%
32	10.939	1503	1505	1508	rVB	13095	11048	1.98%	0.114%
33	11.069	1523	1527	1530	rVV3	5757	7217	1.29%	0.075%
34	11.098	1530	1532	1533	rVV2	7960	6756	1.21%	0.070%

LSC Area Percent Report

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Instrument : BNA_F
ClientSampleId : OK-02-101819

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-BF101819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.145	1537	1540	1544	rVB	35160	30997	5.54%	0.321%
36	11.251	1554	1558	1559	rBV	345721	316927	56.67%	3.280%
37	11.275	1559	1562	1566	rVV	432295	397581	71.09%	4.114%
38	11.328	1567	1571	1574	rVV	110803	114854	20.54%	1.189%
39	11.363	1574	1577	1580	rVV4	14241	22151	3.96%	0.229%
40	11.410	1583	1585	1590	rVB4	10451	13310	2.38%	0.138%
41	11.486	1594	1598	1603	rBV	32635	41876	7.49%	0.433%
42	11.539	1604	1607	1610	rVB	18374	14374	2.57%	0.149%
43	11.580	1610	1614	1616	rBV	17505	18013	3.22%	0.186%
44	11.663	1626	1628	1633	rVB	13220	14898	2.66%	0.154%
45	11.716	1633	1637	1639	rBV5	6120	8231	1.47%	0.085%
46	11.751	1639	1643	1645	rVV	99965	81233	14.53%	0.841%
47	11.780	1645	1648	1653	rVV	138243	134690	24.08%	1.394%
48	11.827	1653	1656	1659	rVV	35455	36687	6.56%	0.380%
49	11.863	1659	1662	1664	rVV	135854	138048	24.68%	1.429%
50	11.886	1664	1666	1672	rVB	58279	52371	9.36%	0.542%
51	11.986	1681	1683	1686	rVB2	10388	6756	1.21%	0.070%
52	12.045	1686	1693	1697	rBV	42918	48312	8.64%	0.500%
53	12.086	1697	1700	1703	rVB3	14434	14594	2.61%	0.151%
54	12.175	1712	1715	1716	rBV3	7669	6445	1.15%	0.067%
55	12.192	1716	1718	1721	rVB	19623	15348	2.74%	0.159%
56	12.227	1721	1724	1726	rBV	32719	26489	4.74%	0.274%
57	12.251	1726	1728	1731	rVB2	23216	18055	3.23%	0.187%
58	12.298	1733	1736	1739	rBV	72527	78172	13.98%	0.809%
59	12.339	1739	1743	1745	rVV4	52422	71938	12.86%	0.744%
60	12.398	1748	1753	1755	rBV3	34982	46080	8.24%	0.477%
61	12.422	1755	1757	1760	rVB3	8848	7570	1.35%	0.078%
62	12.463	1760	1764	1768	rBV	544431	461900	82.59%	4.780%
63	12.504	1769	1771	1773	rVV2	18406	17064	3.05%	0.177%
64	12.527	1773	1775	1778	rVB2	20800	16030	2.87%	0.166%
65	12.563	1778	1781	1786	rBV3	30565	39004	6.97%	0.404%
66	12.616	1786	1790	1792	rBV2	33074	34289	6.13%	0.355%
67	12.639	1792	1794	1797	rVB4	12289	13131	2.35%	0.136%
68	12.692	1797	1803	1809	rBV	504819	543799	97.24%	5.627%
69	12.745	1809	1812	1816	rVB2	35527	39563	7.07%	0.409%
70	12.827	1822	1826	1830	rBV	450701	402967	72.06%	4.170%
71	12.910	1836	1840	1846	rBV4	38264	76749	13.72%	0.794%

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Instrument : BNA_F
ClientSampleId : OK-02-101819

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.963	1847	1849	1852	rVB4	14269	12987	2.32%	0.134%
73	13.022	1852	1859	1862	rBV	85246	131226	23.46%	1.358%
74	13.063	1864	1866	1868	rVV2	20494	19100	3.42%	0.198%
75	13.086	1868	1870	1873	rVV	63656	53454	9.56%	0.553%
76	13.127	1873	1877	1884	rVV2	64641	86542	15.47%	0.896%
77	13.216	1889	1892	1895	rBV	47199	42197	7.55%	0.437%
78	13.251	1895	1898	1900	rBV	44135	48017	8.59%	0.497%
79	13.404	1921	1924	1926	rBV3	15395	19995	3.58%	0.207%
80	13.592	1954	1956	1960	rBV4	16236	24795	4.43%	0.257%
81	13.645	1963	1965	1967	rVV2	33897	35851	6.41%	0.371%
82	13.692	1971	1973	1976	rBV	24061	33850	6.05%	0.350%
83	13.892	2002	2007	2009	rBV2	352628	486882	87.06%	5.038%
84	13.916	2009	2011	2015	rVB	172326	171369	30.64%	1.773%
85	14.051	2031	2034	2039	rBV6	39041	56682	10.14%	0.587%
86	14.351	2083	2085	2088	rVB2	38347	32086	5.74%	0.332%
87	14.921	2178	2182	2185	rBV	147068	216282	38.67%	2.238%
88	15.204	2228	2230	2236	rVB	75745	84955	15.19%	0.879%
89	15.268	2238	2241	2246	rVB	133569	173177	30.97%	1.792%
90	15.321	2247	2250	2254	rBV	194773	231335	41.37%	2.394%

Sum of corrected areas: 9663760

LSC Report - Integrated Chromatogram

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Data File : BF117470.D
Acq On : 22 Oct 2019 1:35
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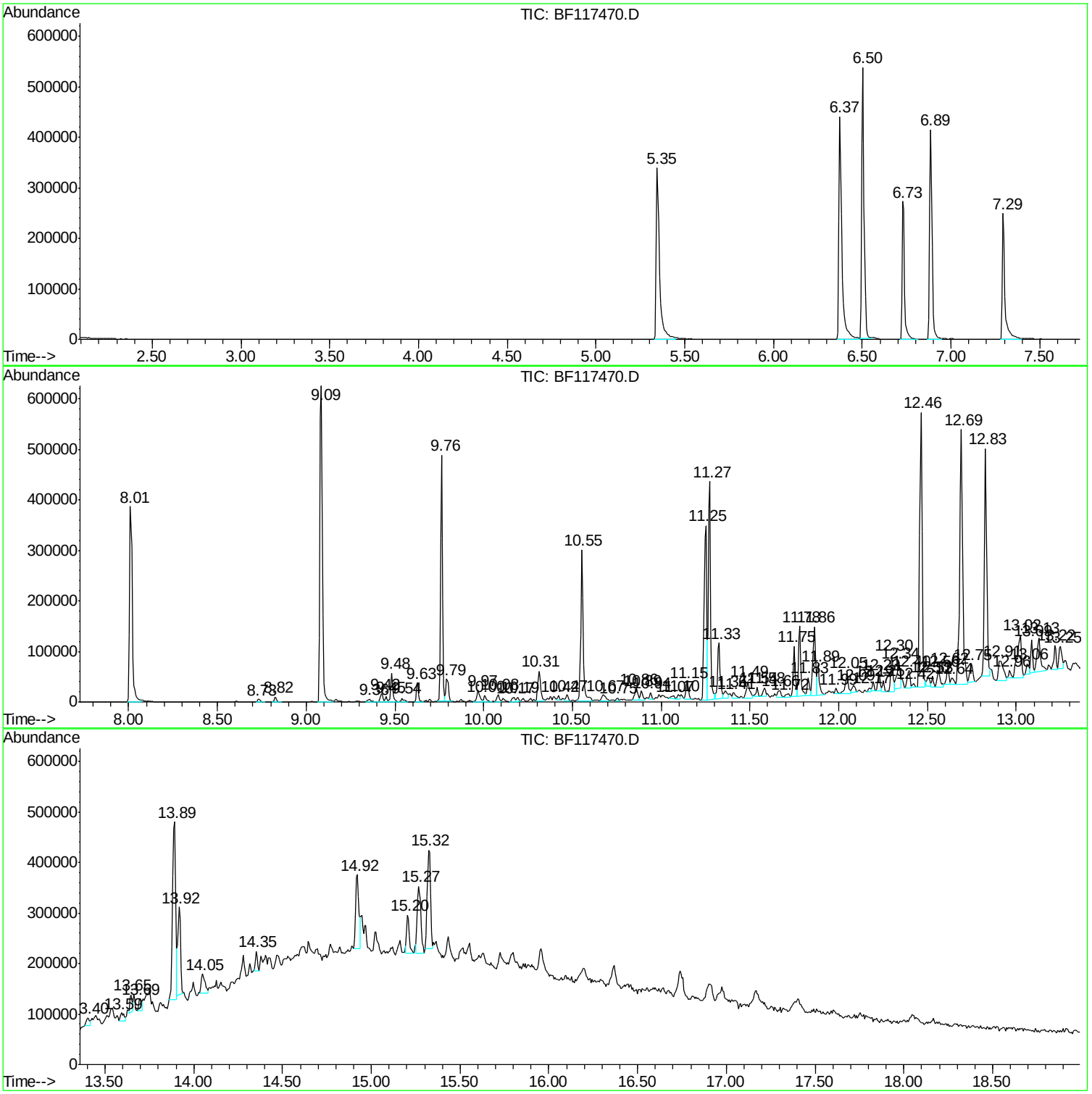
Sample : K5147-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-02-101819

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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\BF102119\
Data File : BF117470.D
Acq On : 22 Oct 2019 1:35
Operator : JU
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Instrument : BNA_F
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

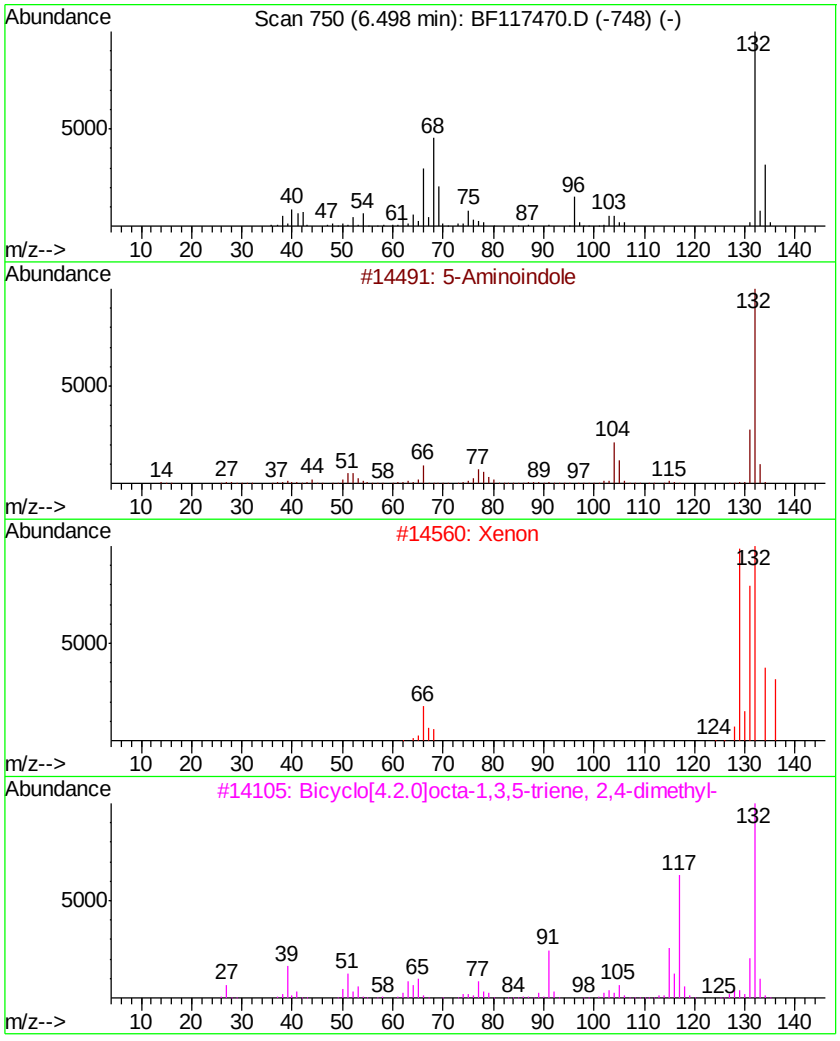
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

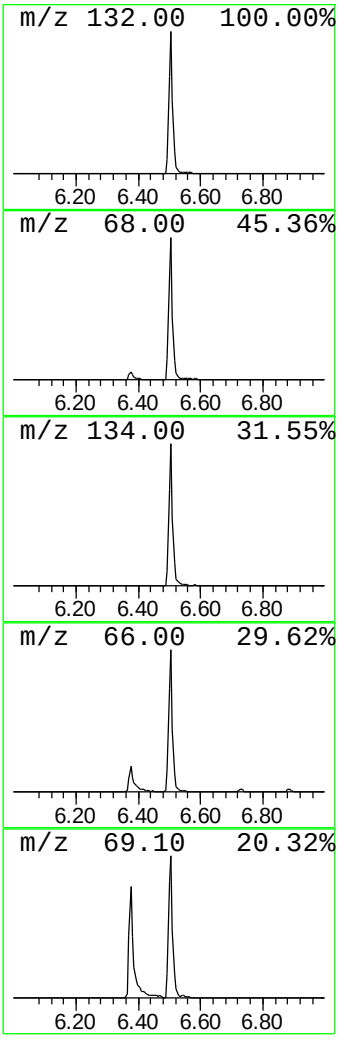
****

Peak Number 1 unknown6.50 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.50	36.17 ng	485209	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Aminoindole	132	C8H8N2	005192-03-0	10
2	Xenon	132	Xe	007440-63-3	9
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102119\
Data File : BF117470.D
Acq On : 22 Oct 2019 1:35
Operator : JU
Sample : K5147-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-02-101819

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

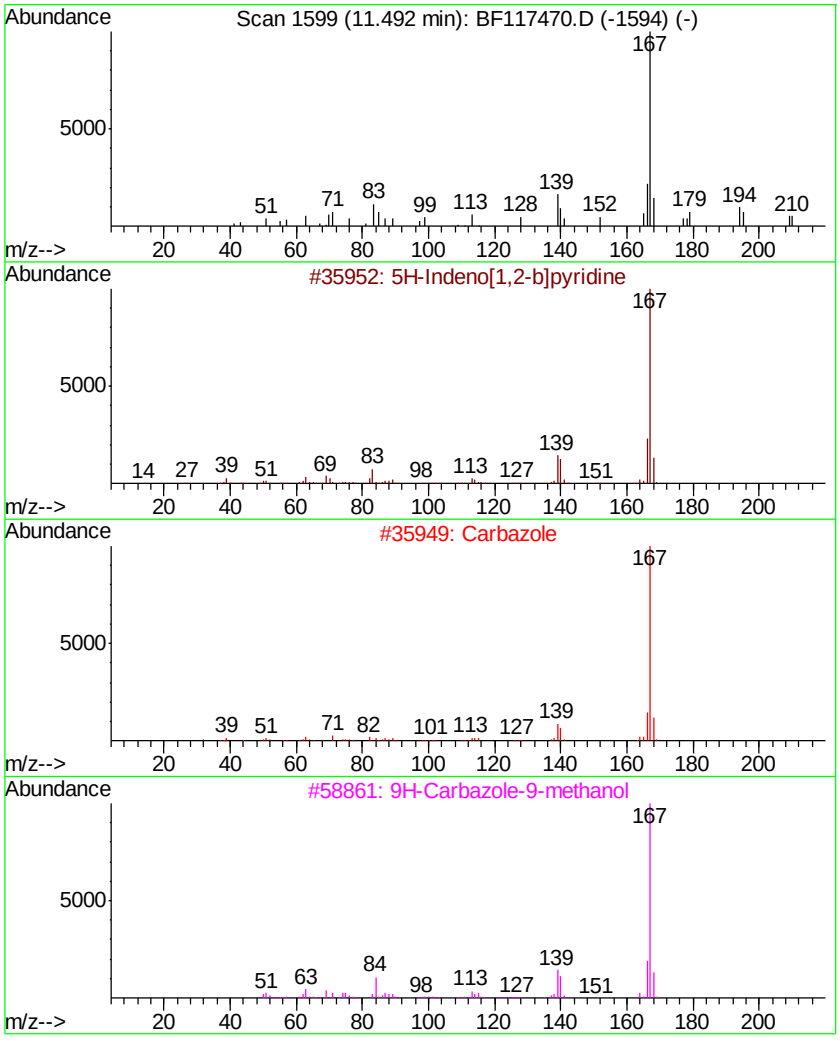
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

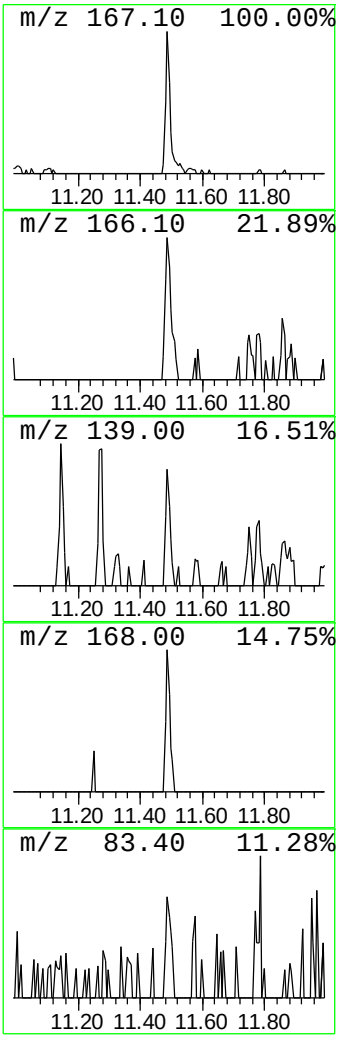
****

Peak Number 3 5H-Indeno[1,2-b]pyridine Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.49	2.64 ng	41876	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Indeno[1,2-b]pyridine	167	C12H9N	000244-99-5	81
2	Carbazole	167	C12H9N	000086-74-8	81
3	9H-Carbazole-9-methanol	197	C13H11NO	002409-36-1	72
4	9H-Carbazole, 9-nitroso-	196	C12H8N2O	002788-23-0	64
5	1-Naphthaleneacetonitrile	167	C12H9N	000132-75-2	64





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Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

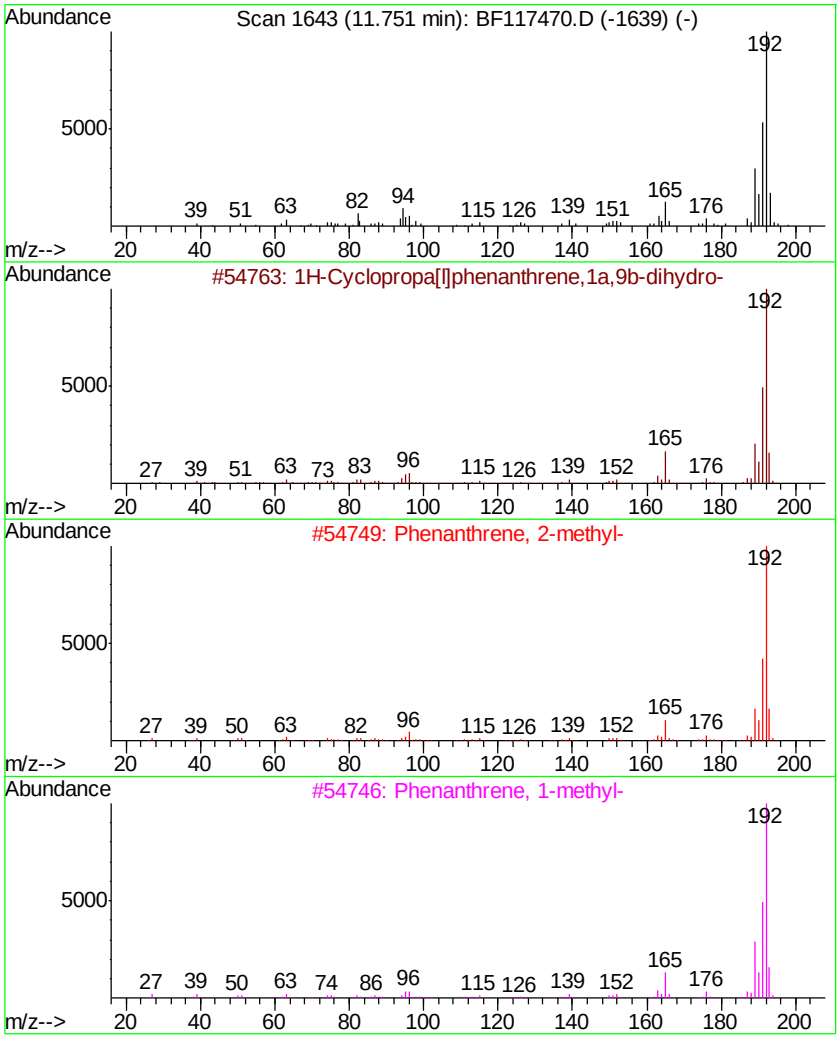
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

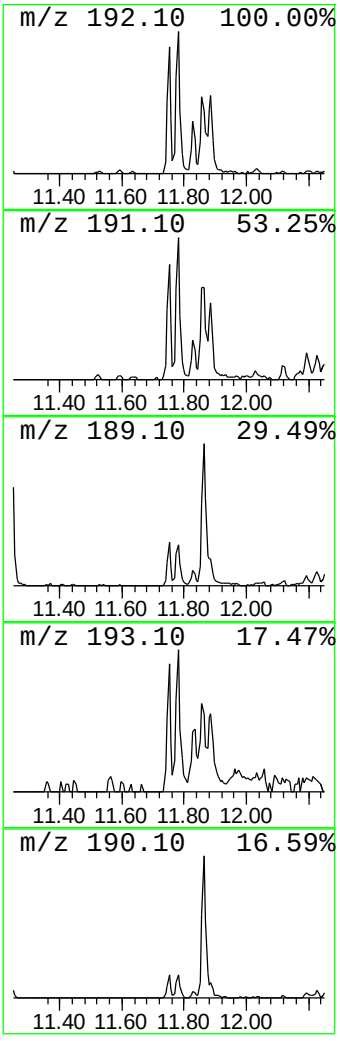
****

Peak Number 4 1H-Cyclopropa[l]phenanthren... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.75	5.13 ng	81233	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93





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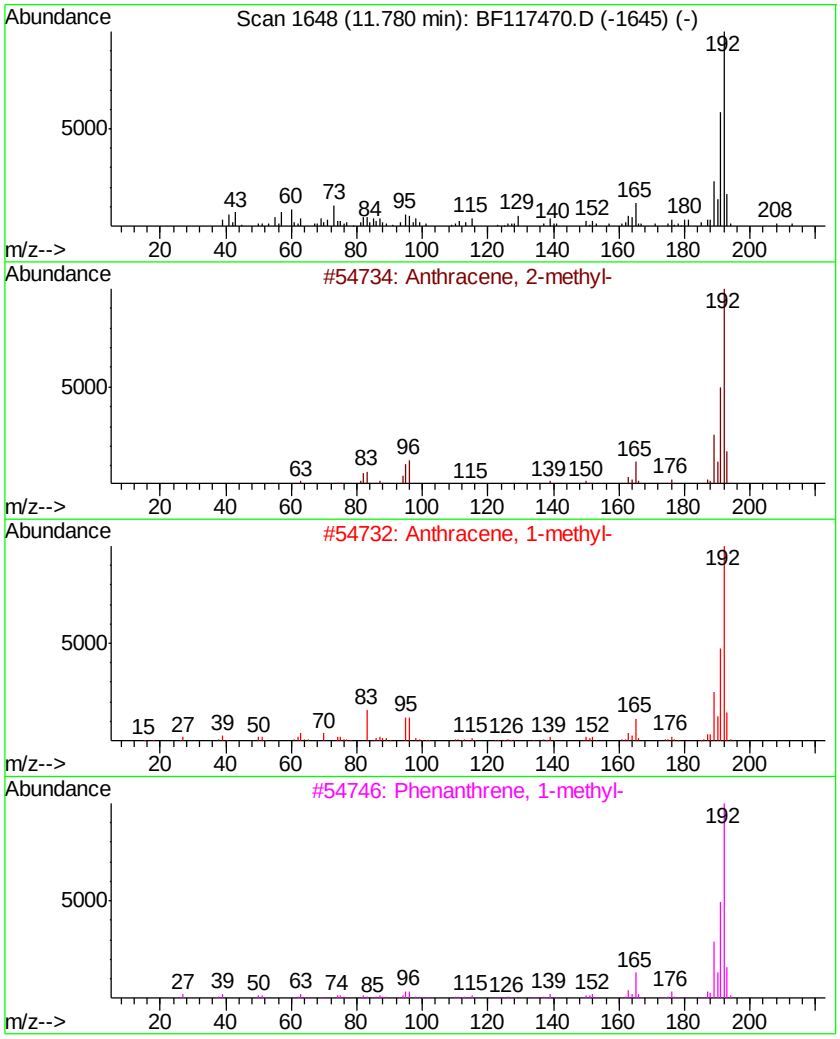
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

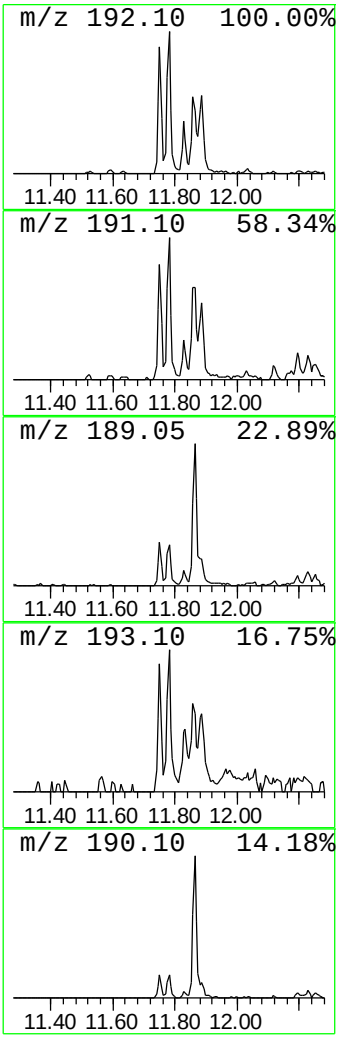
****

Peak Number 5 Anthracene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.78	8.50 ng	134690	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	90





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Misc :
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Instrument : BNA_F
ClientSampleId : OK-02-101819

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

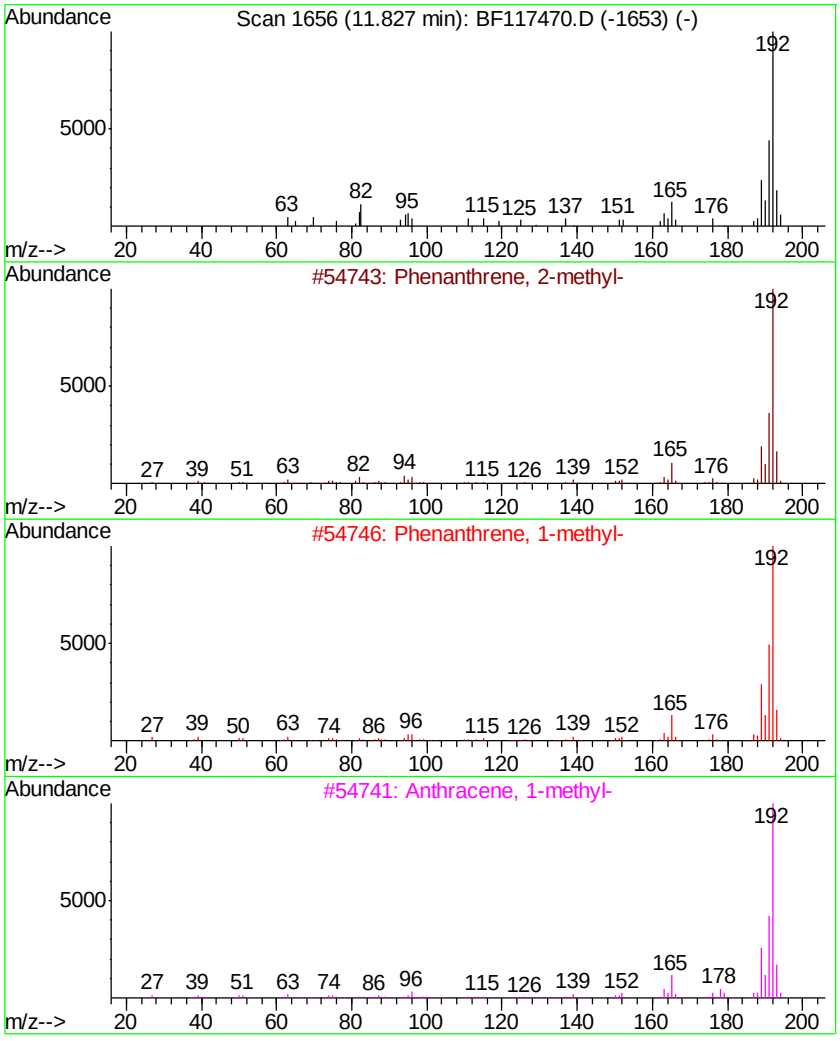
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

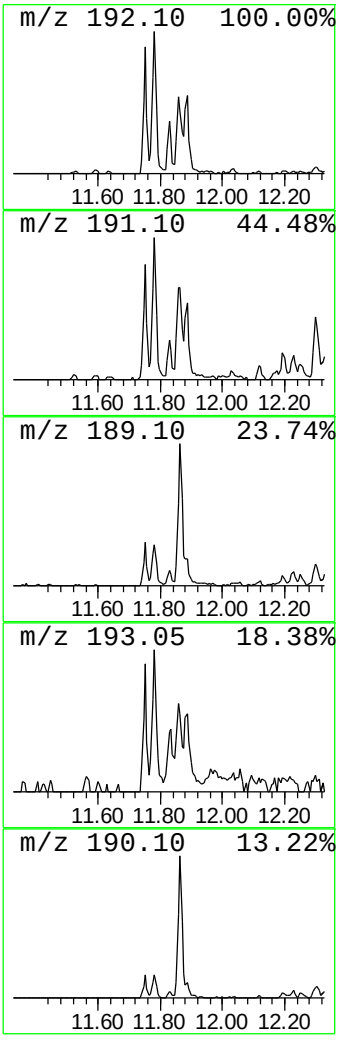
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	2.32 ng	36687	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	87





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Data File : BF117470.D
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Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-02-101819

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

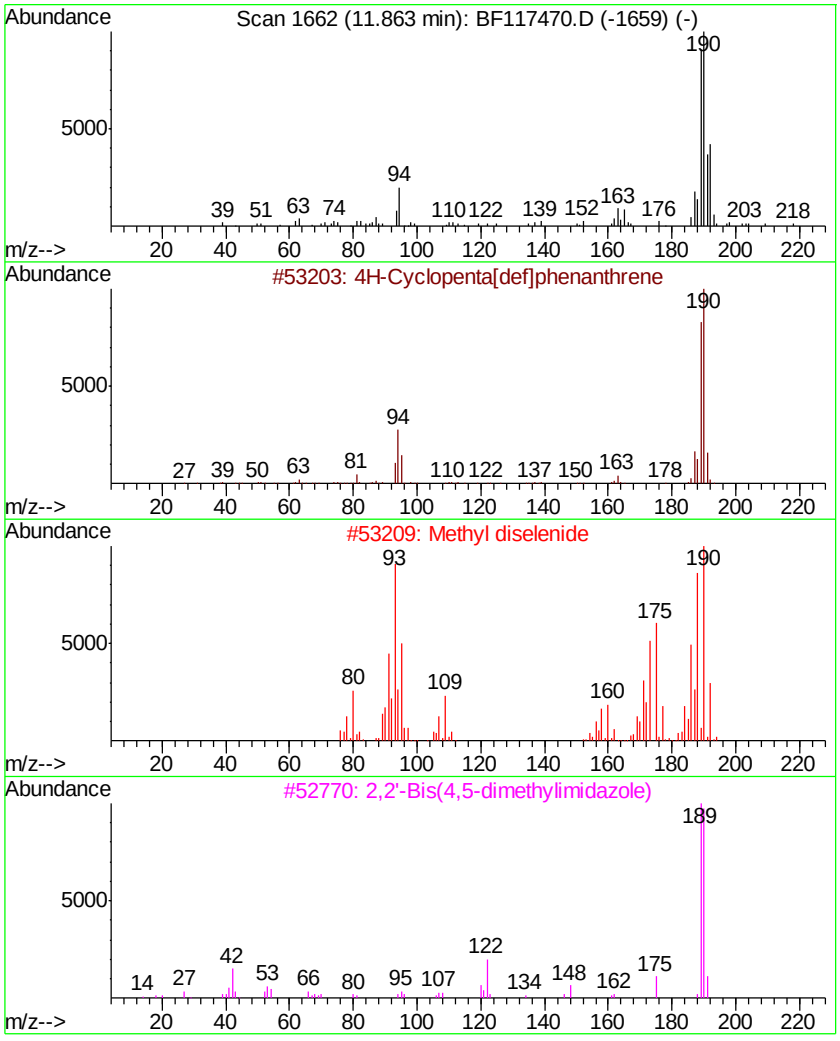
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

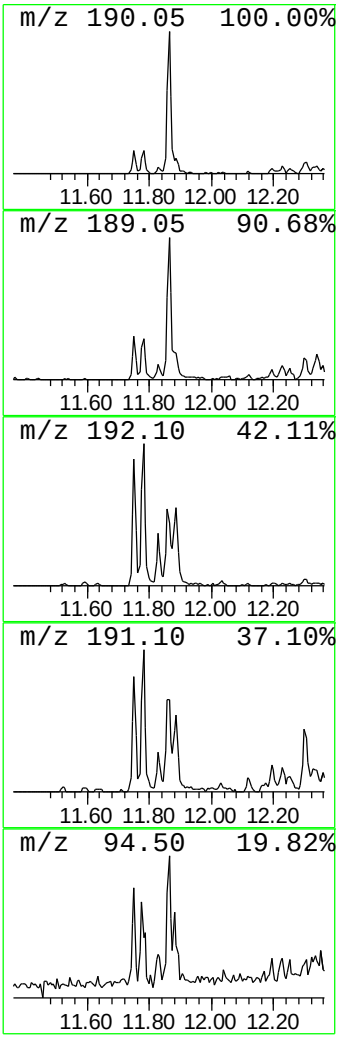
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	8.71 ng	138048	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	81
2	Methyl diselenide	190	C2H6Se2	007101-31-7	60
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	38
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	33
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25





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Acq On : 22 Oct 2019 1:35
Operator : JU
Sample : K5147-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-02-101819

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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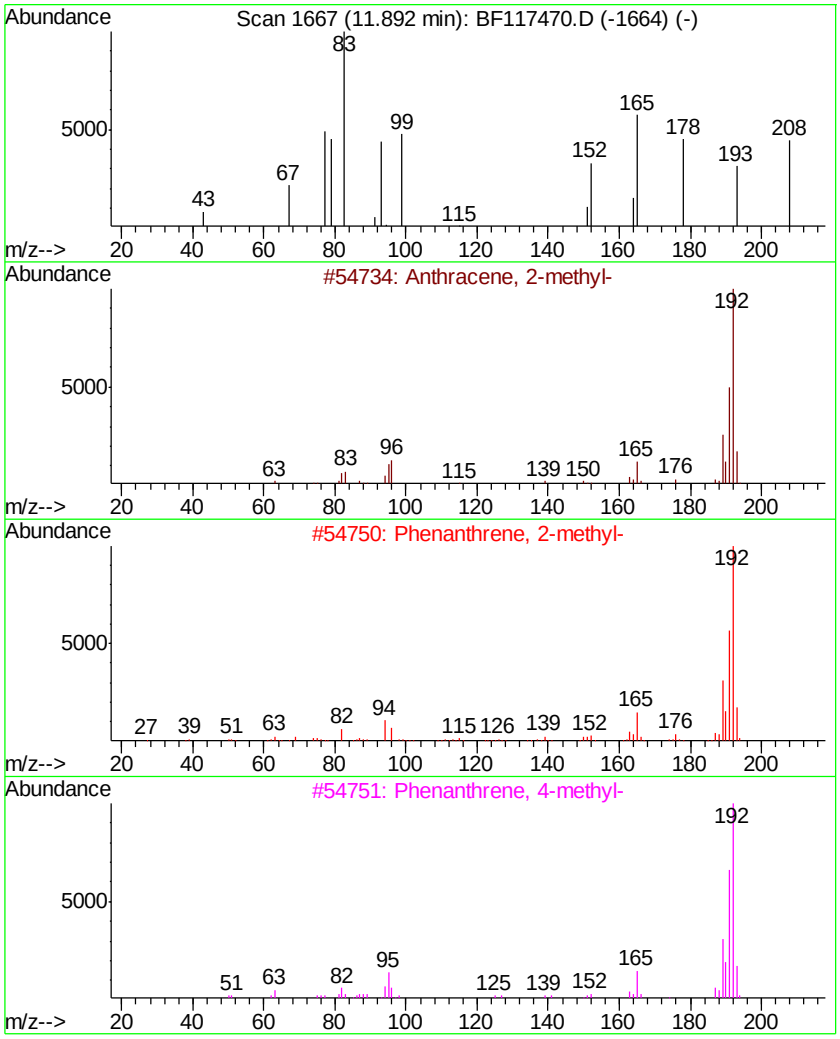
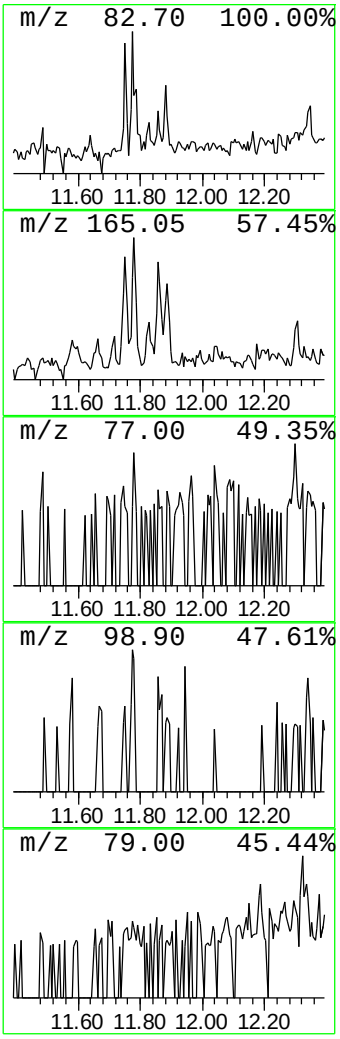
Peak Number 8 Phenanthrene, 4-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	3.30 ng	52371	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	86
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	86
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	83
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	80
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	80





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Misc :
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Instrument : BNA_F
ClientSampleId : OK-02-101819

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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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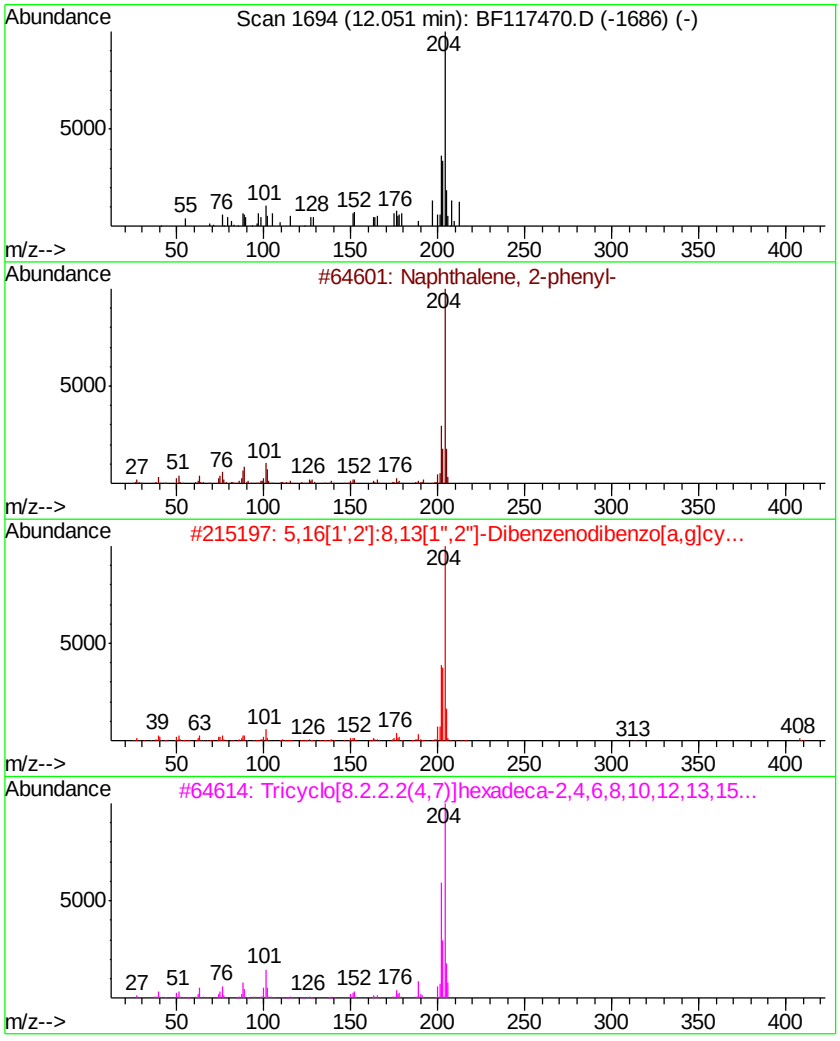
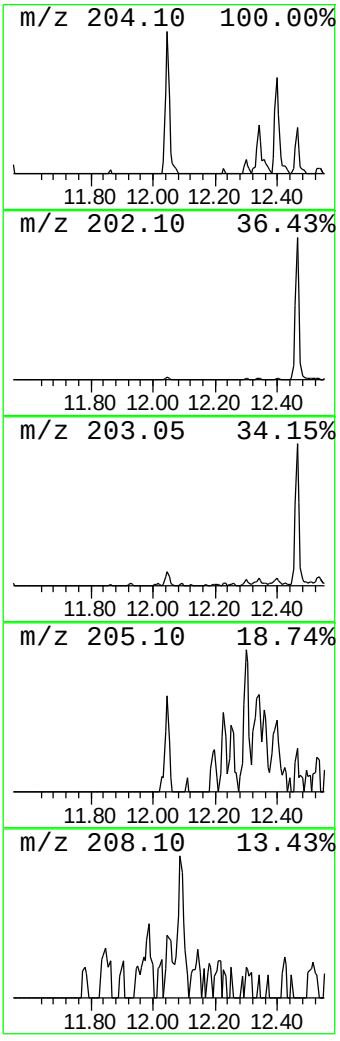
Peak Number 9 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	3.05 ng	48312	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	64
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	52
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	43





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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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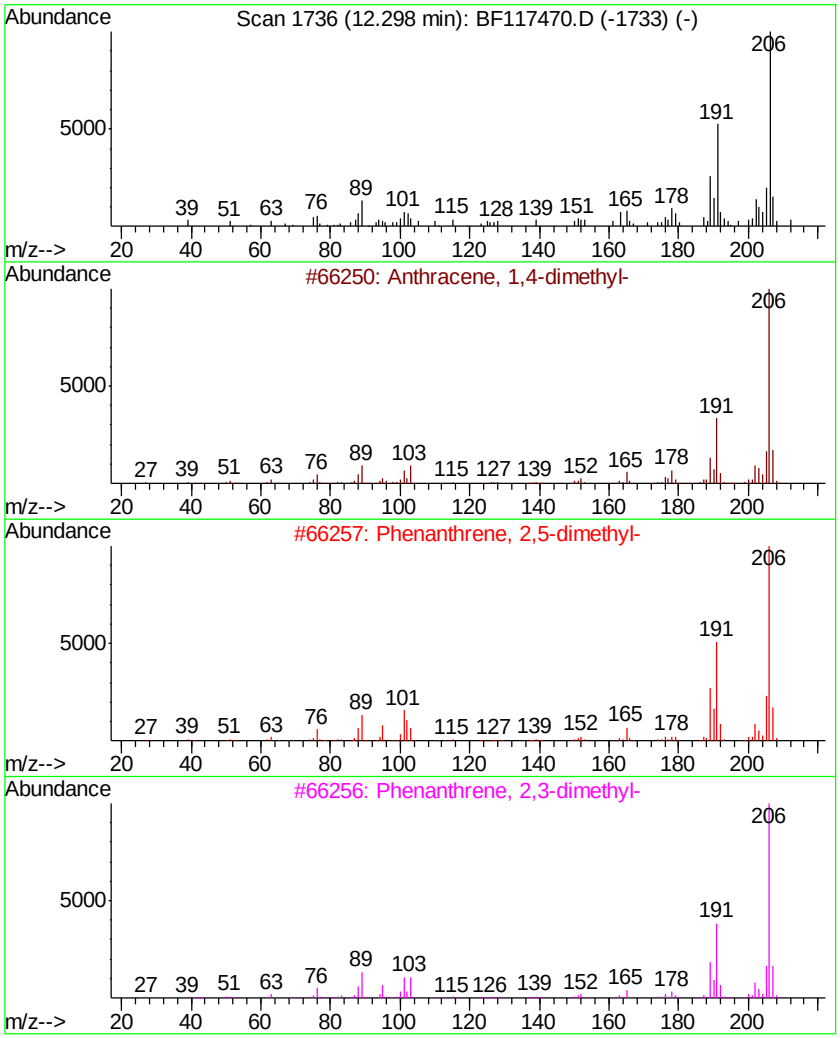
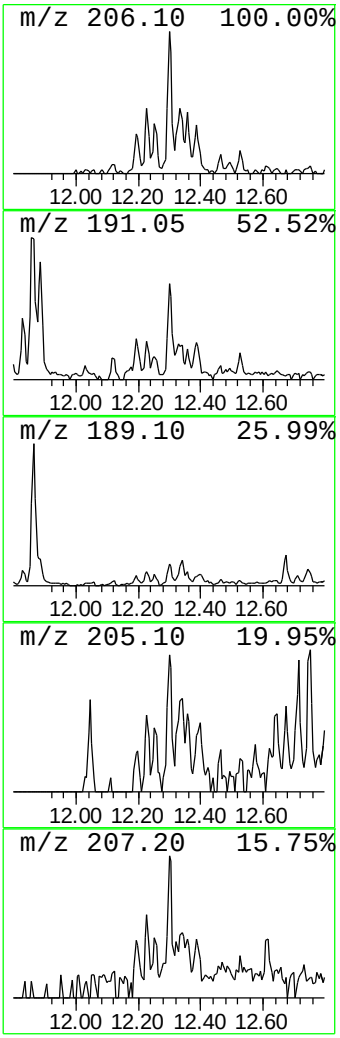
Peak Number 10 Anthracene, 1,4-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	4.93 ng	78172	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	81





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Misc :
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Instrument : BNA_F
ClientSampleId : OK-02-101819

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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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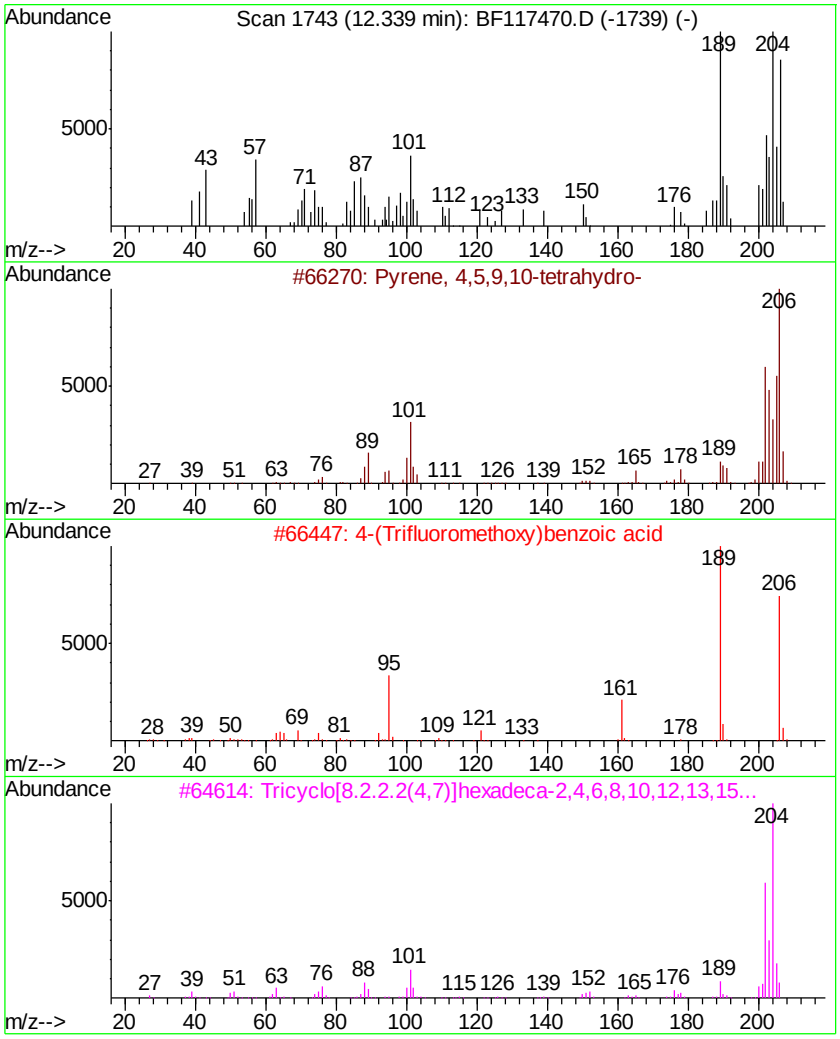
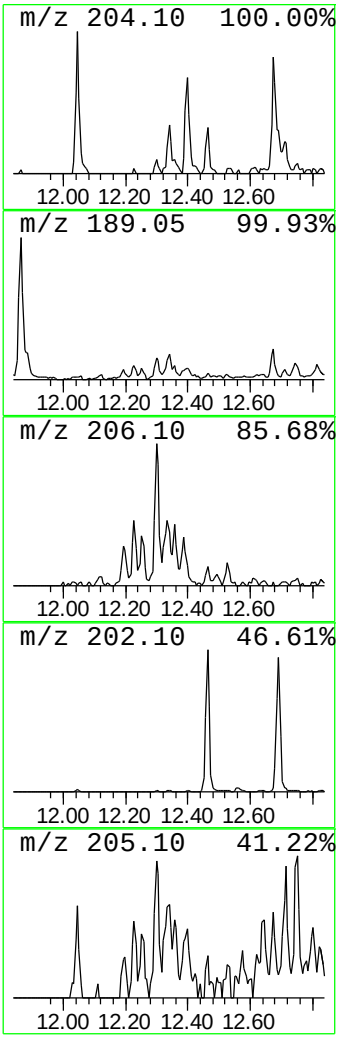
Peak Number 11 unknown12.34 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.34	4.54 ng	71938	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	49
2	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	30
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	30
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	20
5	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	18





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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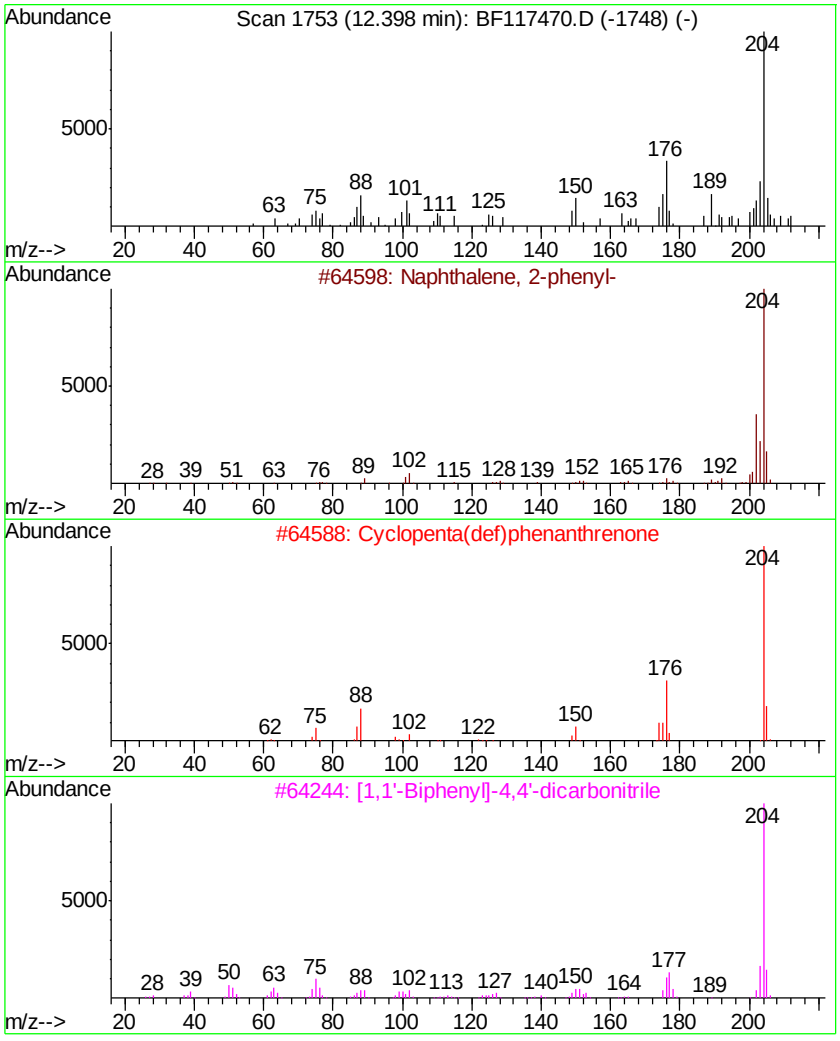
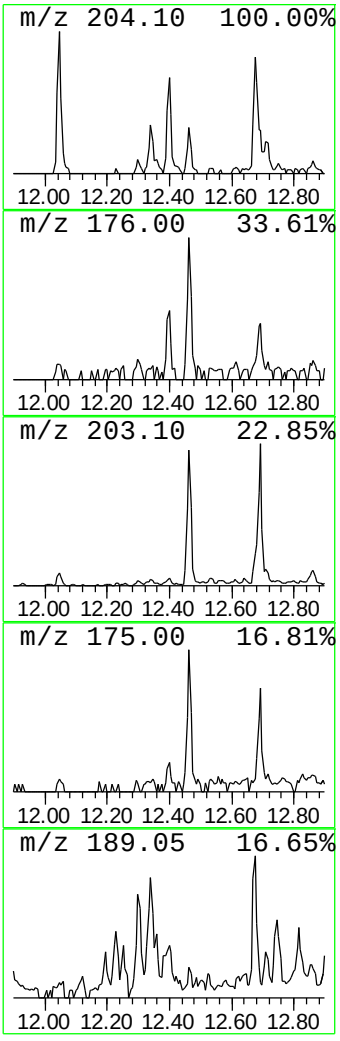
Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	2.91 ng	46080	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
2	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	64
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	59
4	Tetramisole	204	C11H12N2S	005036-02-2	58
5	1,4-Diaminobutane-N,N'-bis(4-nit...	354	C18H18N4O4	1000221-94-5	53





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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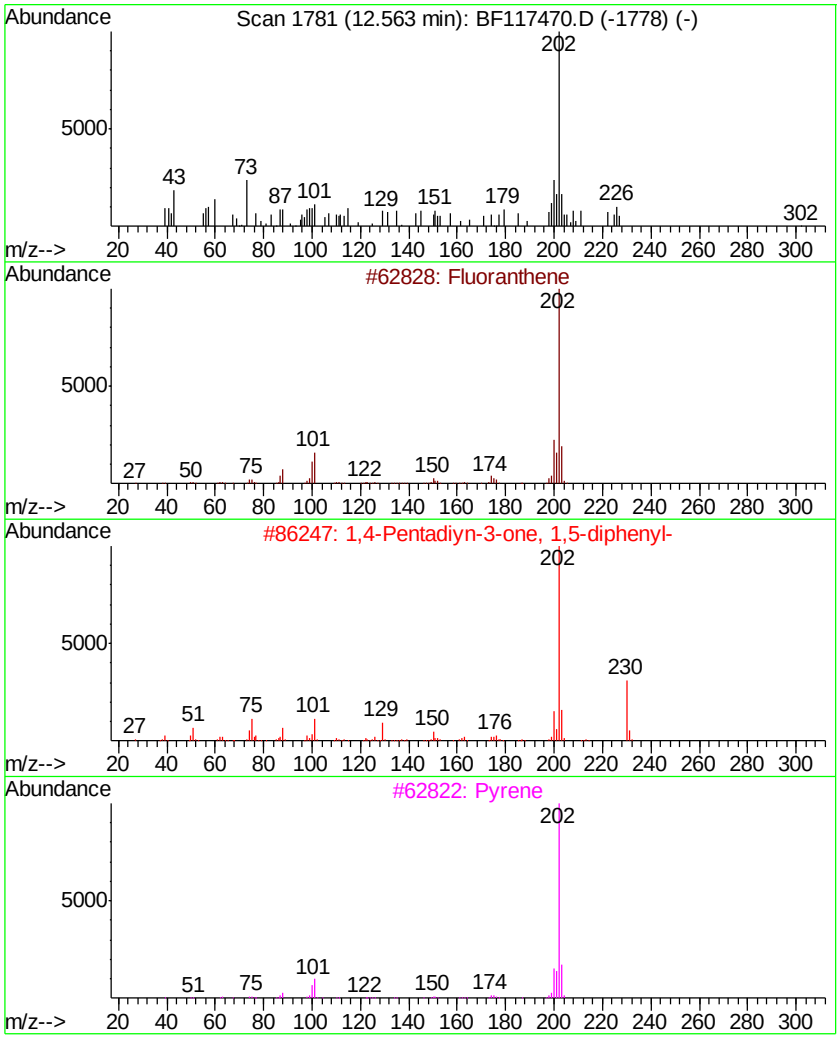
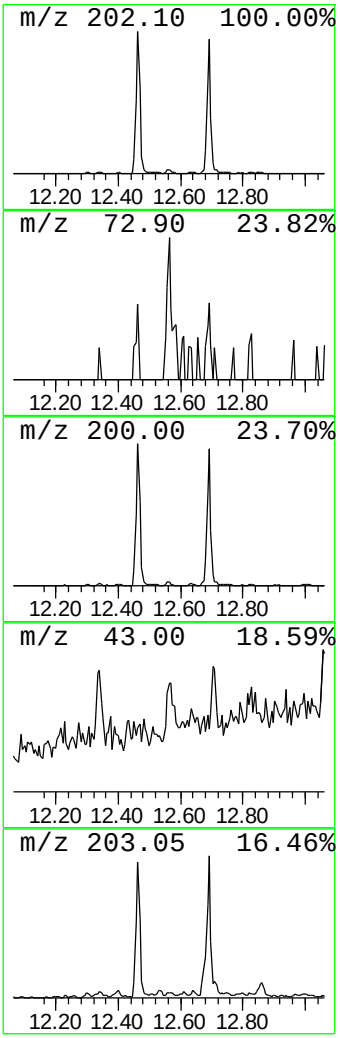
Peak Number 13 unknown12.56 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.56	2.46 ng	39004	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene	202	C16H10	000206-44-0	49
2	1,4-Pentadiyn-3-one, 1,5-diphenyl-	230	C17H10O	015814-30-9	47
3	Pyrene	202	C16H10	000129-00-0	47
4	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	46
5	5-(4-Methylphenyl)furan-2-carbox...	202	C12H10O3	1000305-27-5	43





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Sample : K5147-05 2X
Misc :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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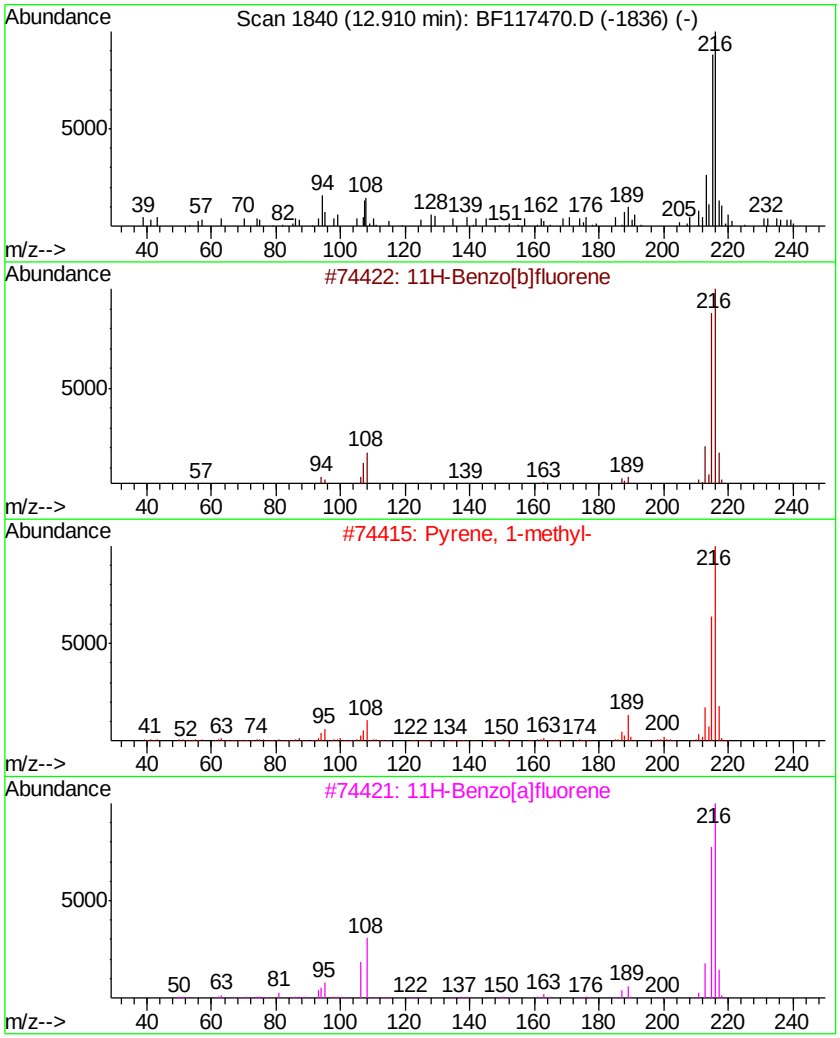
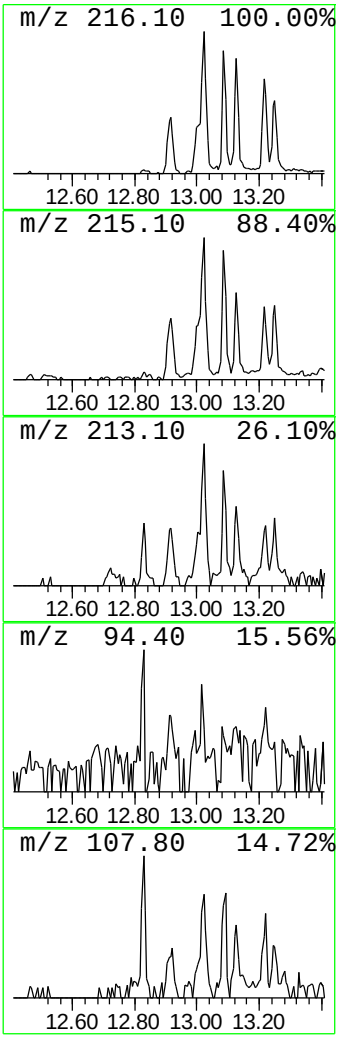
Peak Number 14 11H-Benzo[b]fluorene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.91	3.15 ng	76749	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	76
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	64
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	64
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	59
5	Benzoic acid, 3-(3,5-dimethyl-1-...	216	C12H12N2O2	312531-88-7	53





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ClientSampleId : OK-02-101819

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

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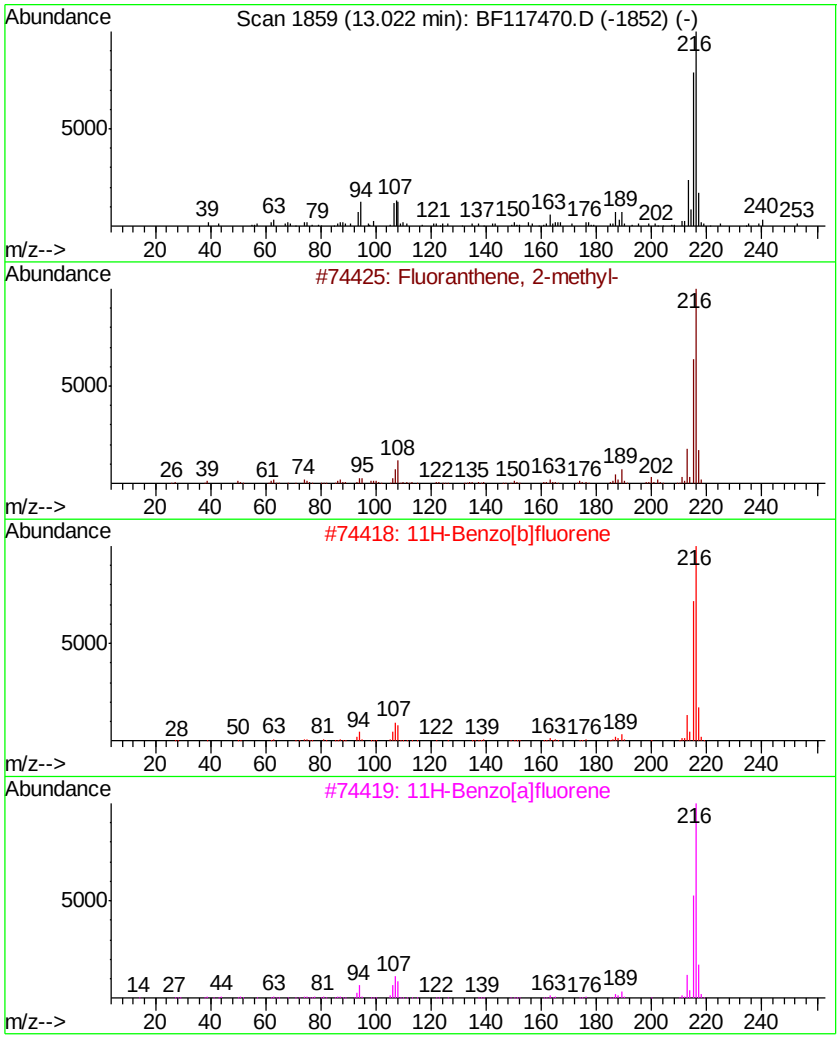
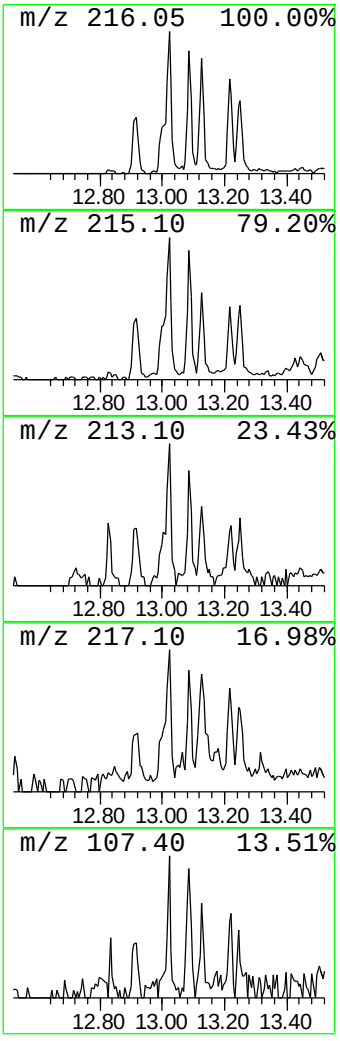
Peak Number 15 Fluoranthene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.02	5.39 ng	131226	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72





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ClientSampleId : OK-02-101819

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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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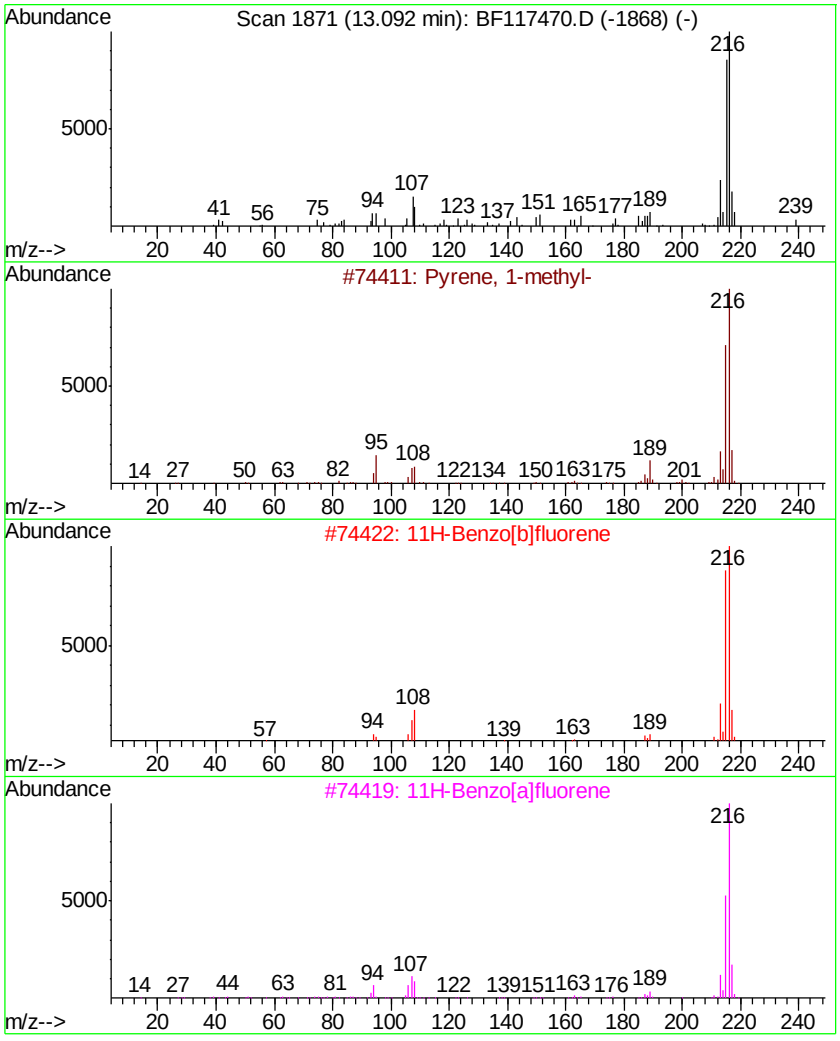
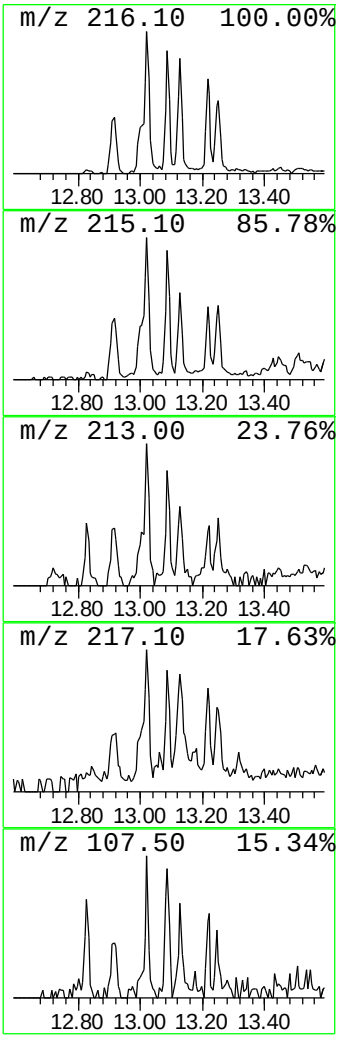
Peak Number 16 Pyrene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.09	2.20 ng	53454	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	49





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Misc :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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TIC Integration Parameters: LSCINT.P

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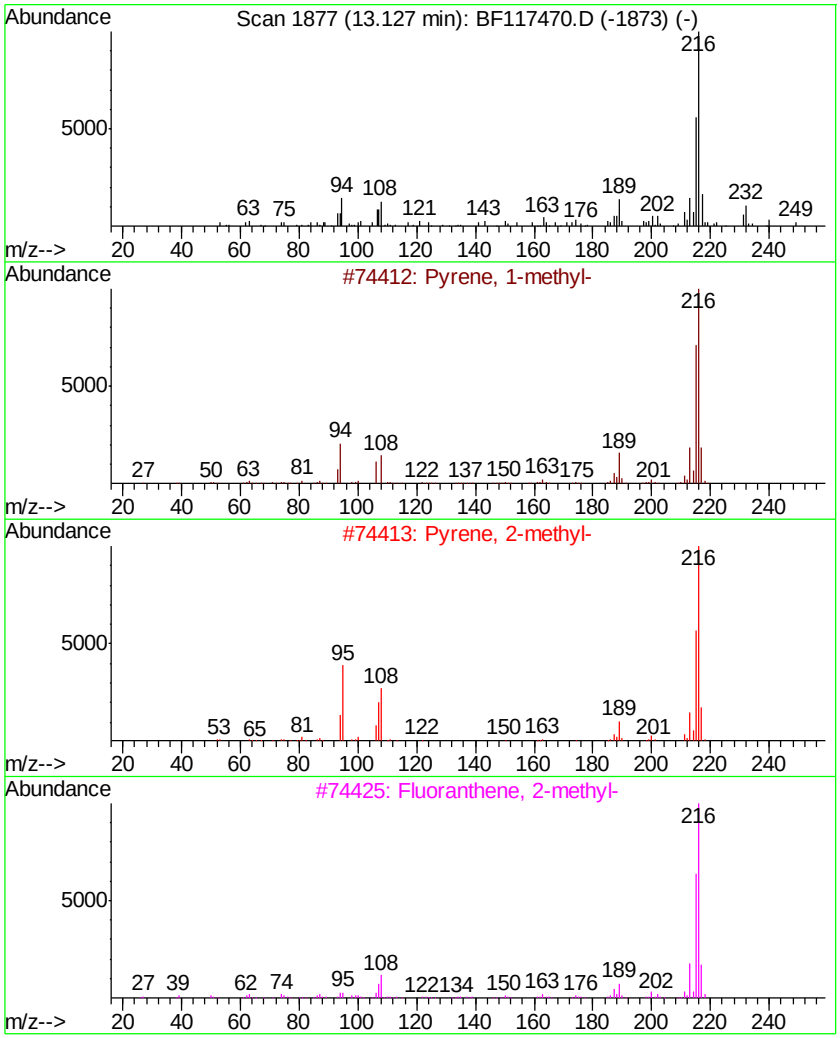
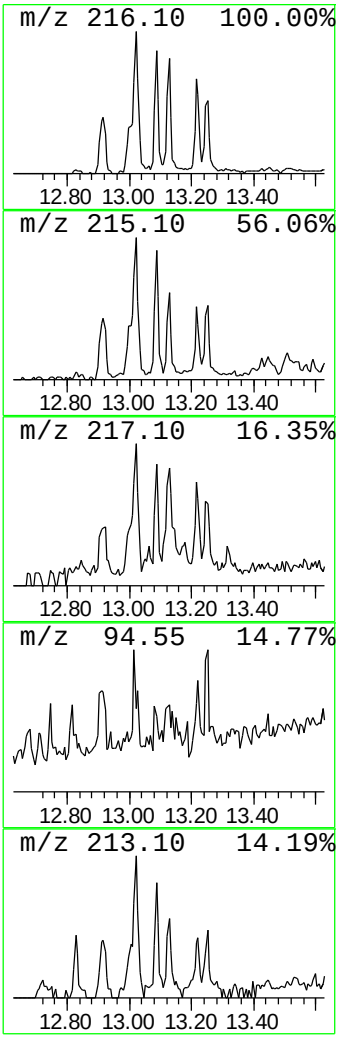
Peak Number 17 Pyrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.13	3.55 ng	86542	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	72





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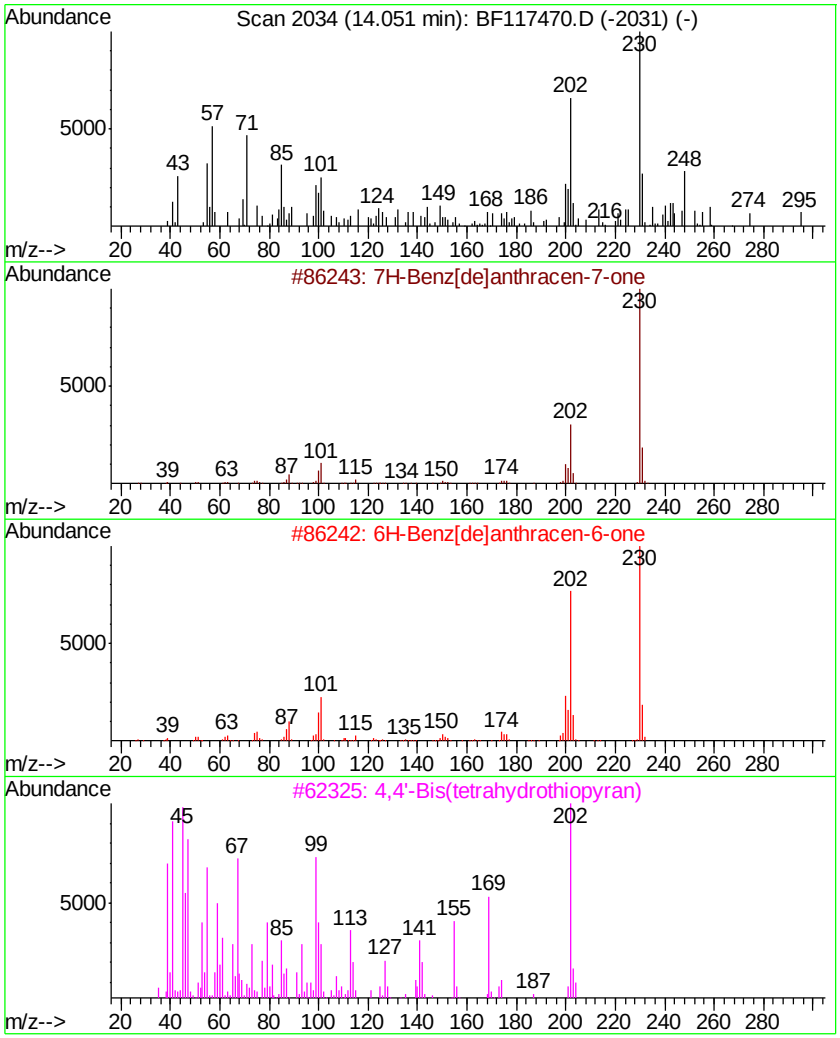
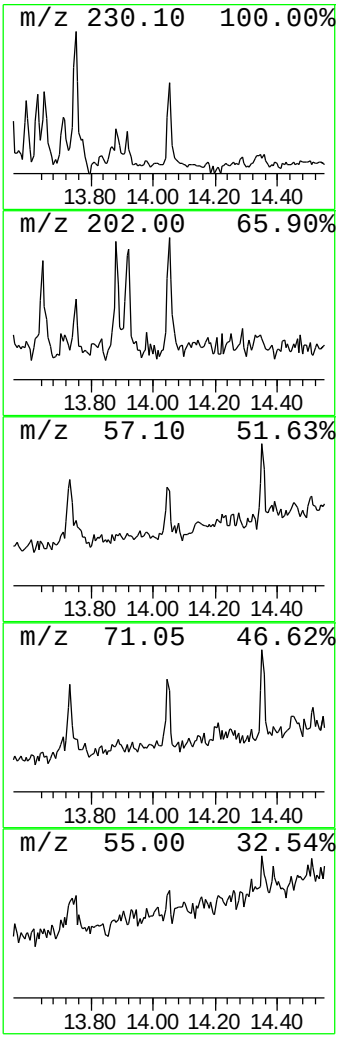
Peak Number 18 7H-Benz[de]anthracen-7-one Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.05	2.33 ng	56682	Chrysene-d12	13.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	89
2	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	58
3	4,4'-Bis(tetrahydrothiopyran)	202	C10H18S2	116196-83-9	56
4	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	52
5	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	49





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102119\
Data File : BF117470.D
Acq On : 22 Oct 2019 1:35
Operator : JU
Sample : K5147-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-02-101819

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

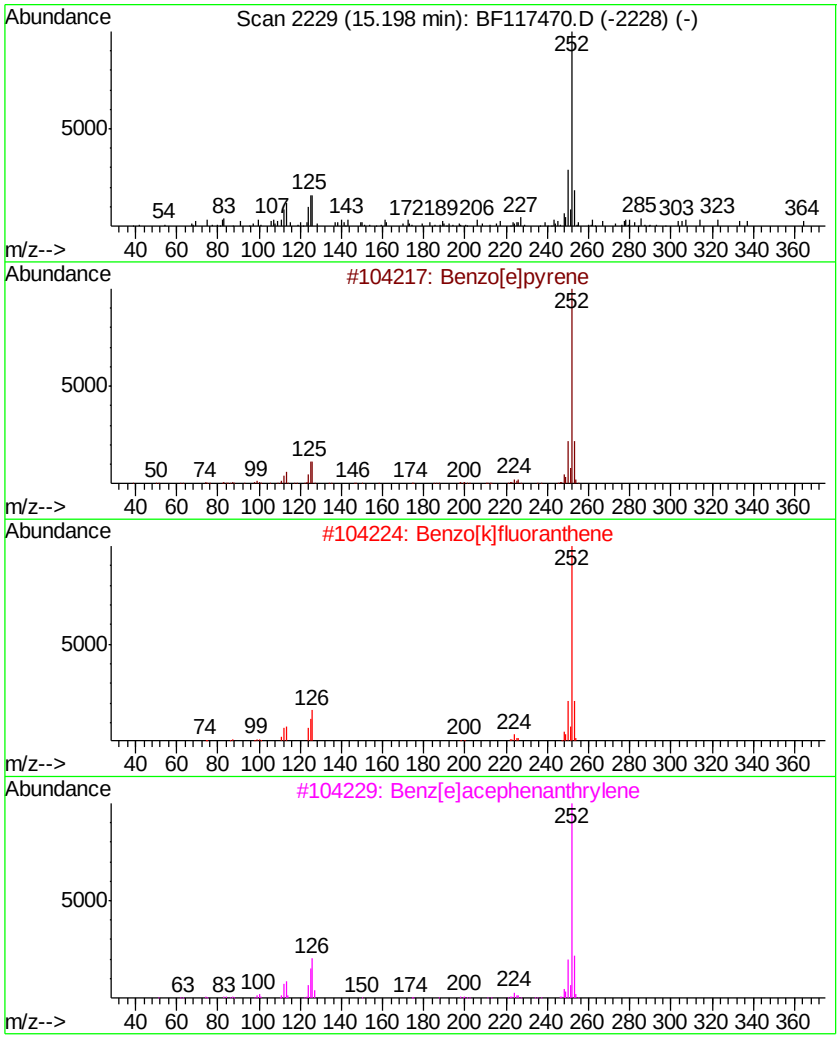
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

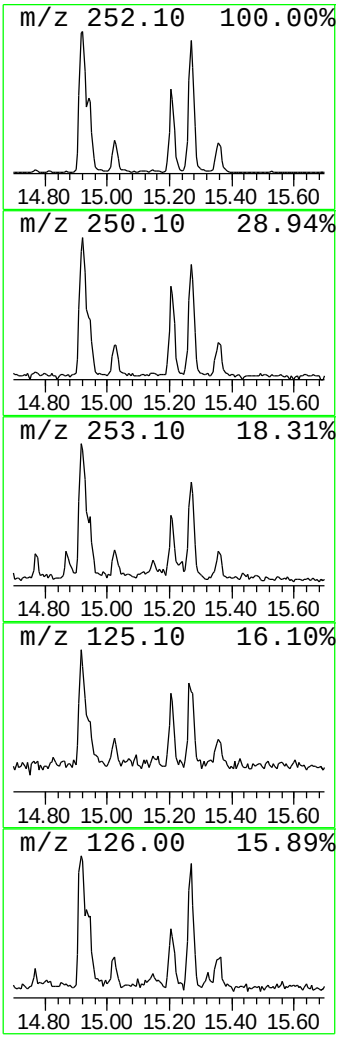
****

Peak Number 19 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.20	7.34 ng	84955	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
4	Perylene	252	C20H12	000198-55-0	89
5	Benzo[a]pyrene	252	C20H12	000050-32-8	76





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF102119\
Data File : BF117470.D
Acq On : 22 Oct 2019 1:35
Operator : JU
Sample : K5147-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-02-101819

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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
unknown6.50	6.50	36.2	ng	485209	1	6.73	268278	20.0
5H-Indeno[1,2-b]p...	11.49	2.6	ng	41876	4	11.25	316927	20.0
1H-Cyclopropa[l]p...	11.75	5.1	ng	81233	4	11.25	316927	20.0
Anthracene, 2-met...	11.78	8.5	ng	134690	4	11.25	316927	20.0
Phenanthrene, 2-m...	11.83	2.3	ng	36687	4	11.25	316927	20.0
4H-Cyclopenta[def...	11.86	8.7	ng	138048	4	11.25	316927	20.0
Phenanthrene, 4-m...	11.89	3.3	ng	52371	4	11.25	316927	20.0
Tricyclo[8.2.2.2(...	12.05	3.0	ng	48312	4	11.25	316927	20.0
Anthracene, 1,4-d...	12.30	4.9	ng	78172	4	11.25	316927	20.0
unknown12.34	12.34	4.5	ng	71938	4	11.25	316927	20.0
Naphthalene, 2-ph...	12.40	2.9	ng	46080	4	11.25	316927	20.0
unknown12.56	12.56	2.5	ng	39004	4	11.25	316927	20.0
11H-Benzo[b]fluorene	12.91	3.1	ng	76749	5	13.89	486882	20.0
Fluoranthene, 2-m...	13.02	5.4	ng	131226	5	13.89	486882	20.0
Pyrene, 1-methyl-	13.09	2.2	ng	53454	5	13.89	486882	20.0
Pyrene, 2-methyl-	13.13	3.5	ng	86542	5	13.89	486882	20.0
7H-Benz[de]anthra...	14.05	2.3	ng	56682	5	13.89	486882	20.0
Benzo[e]pyrene	15.20	7.3	ng	84955	6	15.33	231335	20.0