LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092518\
Data File : BF109291.D
Acq On : 25 Sep 2018 17:44
Operator : JU/SJ
Sample : J4779-05 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-02-092418-A

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-BF092218.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	5.310	544	548	559	rBV	395303	350860	11.50%	1.285%
2	6.339	719	723	731	rBV	448607	392142	12.85%	1.437%
3	6.475	742	746	749	rBV	488062	388631	12.73%	1.424%
4	6.710	782	786	789	rBV	870537	690777	22.63%	2.531%
5	6.863	809	812	816	rBV	390917	307997	10.09%	1.128%
6	7.263	877	880	888	rBV	277940	228880	7.50%	0.839%
7	7.992	1000	1004	1006	rBV	1136789	916155	30.02%	3.356%
8	8.010	1006	1007	1010	rVB	83866	52963	1.74%	0.194%
9	8.704	1120	1125	1130	rVB	41304	39194	1.28%	0.144%
10	8.798	1138	1141	1146	rBV2	38886	46603	1.53%	0.171%
11	9.063	1183	1186	1192	rBV	581252	461502	15.12%	1.691%
12	9.163	1197	1203	1206	rBV2	52537	54812	1.80%	0.201%
13	9.333	1226	1232	1237	rBV2	28309	40959	1.34%	0.150%
14	9.404	1237	1244	1246	rBV	49660	57711	1.89%	0.211%
15	9.457	1251	1253	1256	rBV	122633	97854	3.21%	0.358%
16	9.686	1289	1292	1295	rBV	64379	45206	1.48%	0.166%
17	9.739	1296	1301	1304	rBV	1113787	955909	31.32%	3.502%
18	9.774	1304	1307	1310	rVB	142068	121013	3.97%	0.443%
19	9.945	1333	1336	1339	rVB	105803	91012	2.98%	0.333%
20	10.186	1374	1377	1380	rVB	62396	50205	1.65%	0.184%
21	10.286	1391	1394	1400	rBV	172201	153059	5.02%	0.561%
22	10.351	1400	1405	1407	rVV	31561	39772	1.30%	0.146%
23	10.404	1411	1414	1418	rVV3	35311	56333	1.85%	0.206%
24	10.445	1418	1421	1426	rVB	44074	51647	1.69%	0.189%
25	10.521	1431	1434	1439	rVB	306343	263442	8.63%	0.965%
26	10.657	1453	1457	1464	rBV2	80568	94562	3.10%	0.346%
27	10.833	1480	1487	1489	rBV4	40808	59269	1.94%	0.217%
28	11.021	1516	1519	1524	rVB	71607	73012	2.39%	0.267%
29	11.068	1524	1527	1530	rBV	37888	42704	1.40%	0.156%
30	11.110	1530	1534	1537	rBV2	69906	103190	3.38%	0.378%
31	11.216	1549	1552	1554	rBV	866907	818215	26.81%	2.998%
32	11.245	1554	1557	1560	rVV	1183588	1036813	33.97%	3.798%
33	11.292	1560	1565	1568	rVB	282310	246162	8.07%	0.902%
34	11.327	1568	1571	1575	rBV2	32972	35573	1.17%	0.130%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J4779-05 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-02-092418-A

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-BF092218.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.445	1586	1591	1594	rBV2	158349	150953	4.95%	0.553%
36	11.527	1600	1605	1607	rBV2	55812	74788	2.45%	0.274%
37	11.621	1618	1621	1625	rVB	997841	861441	28.23%	3.156%
38	11.716	1631	1637	1640	rBV	153527	162922	5.34%	0.597%
39	11.745	1640	1642	1647	rVB	270382	222379	7.29%	0.815%
40	11.792	1647	1650	1653	rBV	93242	79400	2.60%	0.291%
41	11.827	1653	1656	1659	rBV	274821	291349	9.55%	1.067%
42	11.851	1659	1660	1664	rVB	122033	69936	2.29%	0.256%
43	11.933	1669	1674	1676	rBV2	41593	51028	1.67%	0.187%
44	12.015	1685	1688	1689	rBV	121853	112300	3.68%	0.411%
45	12.033	1689	1691	1695	rVB	149227	120676	3.95%	0.442%
46	12.163	1708	1713	1715	rBV2	47364	45880	1.50%	0.168%
47	12.215	1720	1722	1724	rVB	46021	34046	1.12%	0.125%
48	12.268	1724	1731	1734	rBV	100406	128499	4.21%	0.471%
49	12.310	1734	1738	1740	rVV	3186172	3051974	100.00%	11.181%
50	12.327	1740	1741	1752	rVB2	2091914	1952496	63.97%	7.153%
51	12.427	1752	1758	1761	rBV	1718804	1765290	57.84%	6.467%
52	12.486	1761	1768	1772	rVV3	39677	78506	2.57%	0.288%
53	12.557	1776	1780	1781	rBV2	53336	54404	1.78%	0.199%
54	12.574	1781	1783	1788	rVB	51503	53601	1.76%	0.196%
55	12.651	1791	1796	1800	rBV2	1263479	1523843	49.93%	5.583%
56	12.698	1802	1804	1811	rVB2	76342	110756	3.63%	0.406%
57	12.774	1814	1817	1818	rBV	103796	87967	2.88%	0.322%
58	12.798	1818	1821	1828	rVB2	490174	467217	15.31%	1.712%
59	12.874	1828	1834	1837	rBV3	119178	206807	6.78%	0.758%
60	12.898	1837	1838	1841	rVB2	48503	33774	1.11%	0.124%
61	12.980	1845	1852	1855	rVB2	230912	332836	10.91%	1.219%
62	13.045	1860	1863	1866	rVV	186430	188364	6.17%	0.690%
63	13.080	1866	1869	1872	rVV	192251	208805	6.84%	0.765%
64	13.110	1872	1874	1877	rVV	52067	55222	1.81%	0.202%
65	13.139	1877	1879	1882	rVV2	76799	66585	2.18%	0.244%
66	13.174	1882	1885	1888	rVB	94409	76509	2.51%	0.280%
67	13.204	1888	1890	1894	rBV2	97862	106651	3.49%	0.391%
68	13.239	1894	1896	1900	rVB5	29974	40925	1.34%	0.150%
69	13.286	1900	1904	1908	rBV5	34105	56665	1.86%	0.208%
70	13.357	1913	1916	1918	rBV3	51968	61247	2.01%	0.224%
71	13.386	1918	1921	1923	rBV3	39114	37417	1.23%	0.137%

LSC Area Percent Report

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Sample : J4779-05 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-02-092418-A

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 >
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Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.480	1934	1937	1943	rVB	134544	162289	5.32%	0.595%
73	13.551	1946	1949	1952	rVB3	35928	35537	1.16%	0.130%
74	13.592	1952	1956	1959	rBV2	147727	186176	6.10%	0.682%
75	13.621	1959	1961	1963	rVV	128995	110241	3.61%	0.404%
76	13.645	1963	1965	1969	rVV2	87633	130831	4.29%	0.479%
77	13.692	1970	1973	1975	rVV	142825	131179	4.30%	0.481%
78	13.739	1978	1981	1983	rBV	39296	35347	1.16%	0.129%
79	13.845	1994	1999	2002	rBV2	1087587	1515249	49.65%	5.551%
80	13.868	2002	2003	2009	rVB	596984	527519	17.28%	1.933%
81	13.951	2014	2017	2019	rVB	91373	69933	2.29%	0.256%
82	14.027	2028	2030	2033	rVB3	73093	68848	2.26%	0.252%
83	14.062	2033	2036	2040	rBV2	66695	84883	2.78%	0.311%
84	14.104	2040	2043	2045	rBV2	41321	39101	1.28%	0.143%
85	14.198	2056	2059	2060	rBV	41262	41502	1.36%	0.152%
86	14.233	2061	2065	2067	rVV	147491	161098	5.28%	0.590%
87	14.262	2068	2070	2073	rVB2	86416	88103	2.89%	0.323%
88	14.327	2078	2081	2083	rVV3	81173	92234	3.02%	0.338%
89	14.351	2083	2085	2087	rVV2	67727	69987	2.29%	0.256%
90	14.374	2087	2089	2093	rVB3	67185	66027	2.16%	0.242%
91	14.856	2166	2171	2173	rBV	407287	602863	19.75%	2.209%
92	15.133	2215	2218	2224	rVB	236945	299973	9.83%	1.099%
93	15.192	2224	2228	2233	rBV	342470	382946	12.55%	1.403%
94	15.251	2234	2238	2241	rBV	473260	547036	17.92%	2.004%
95	16.598	2463	2467	2474	rVB2	131923	230619	7.56%	0.845%
96	17.003	2533	2536	2542	rVB	80521	128524	4.21%	0.471%

Sum of corrected areas: 27295641

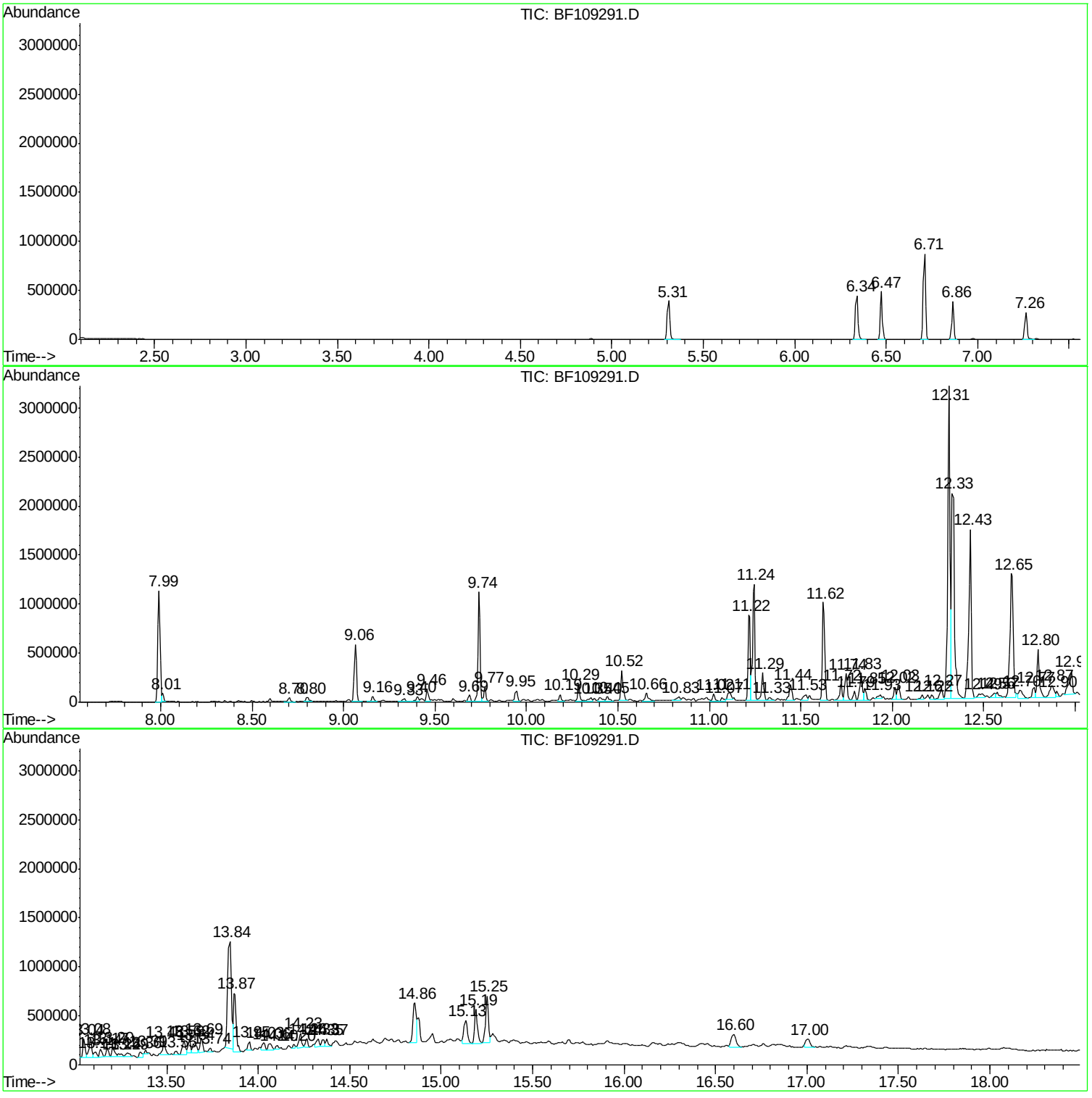
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092518\
Data File : BF109291.D
Acq On : 25 Sep 2018 17:44
Operator : JU/SJ
Sample : J4779-05 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-02-092418-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.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\BF092518\
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Acq On : 25 Sep 2018 17:44
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Sample : J4779-05 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-02-092418-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

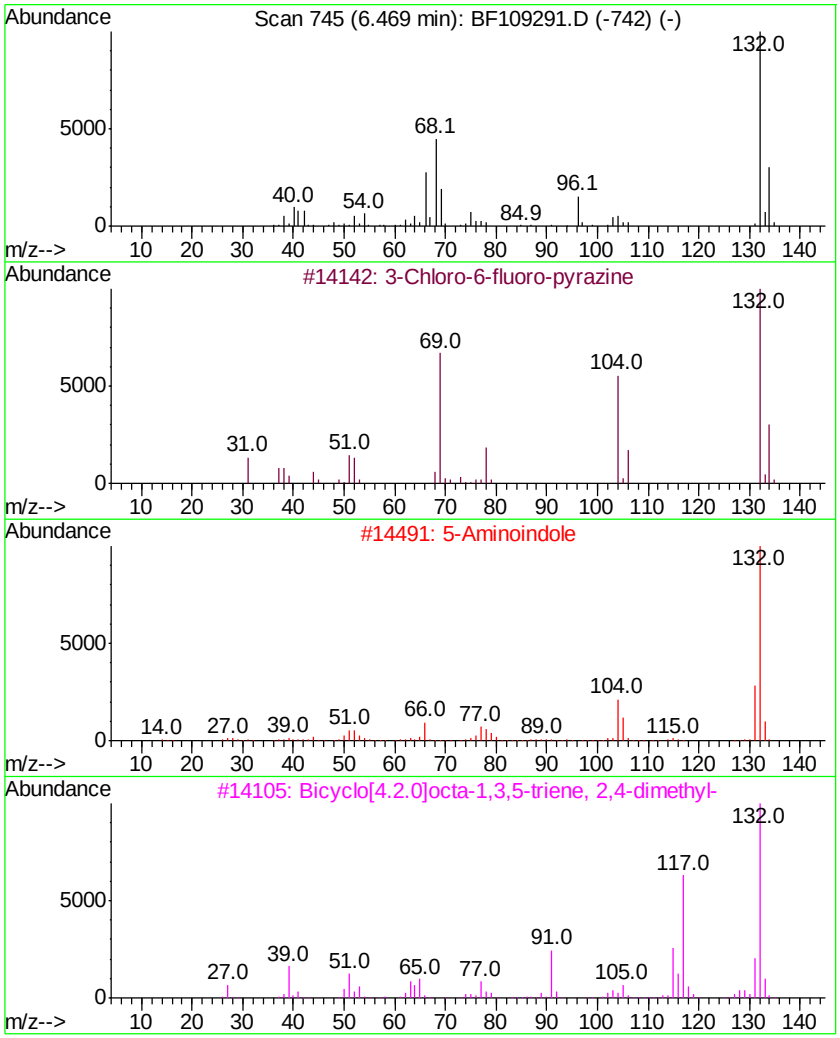
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

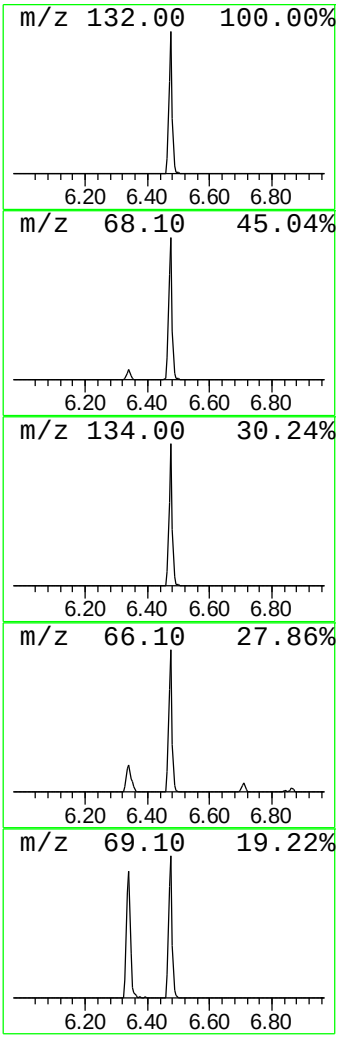
****

Peak Number 1 unknown6.47 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.47	11.25 ng	388631	1,4-Dichlorobenzene-d4	6.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
2	5-Aminoindole	132	C8H8N2	005192-03-0	10
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092518\
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Acq On : 25 Sep 2018 17:44
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ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-02-092418-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

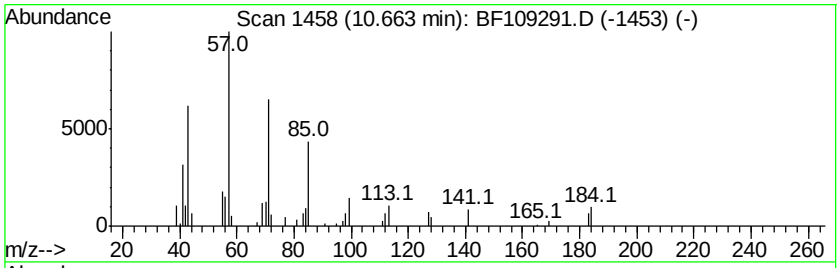
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

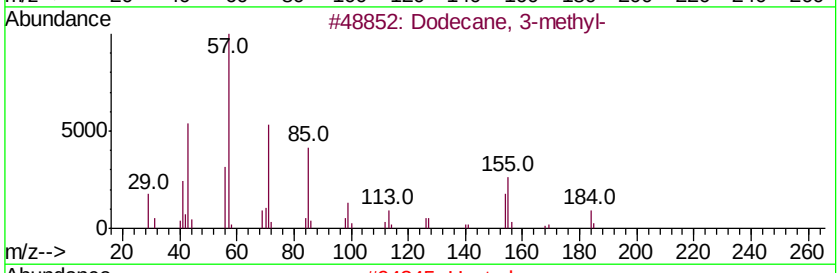
****

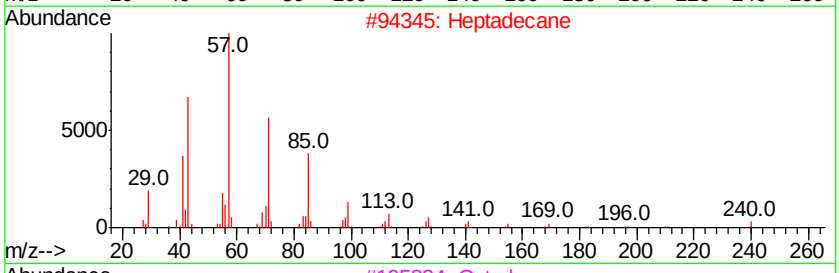
Peak Number 3 Dodecane, 3-methyl- Concentration Rank 19

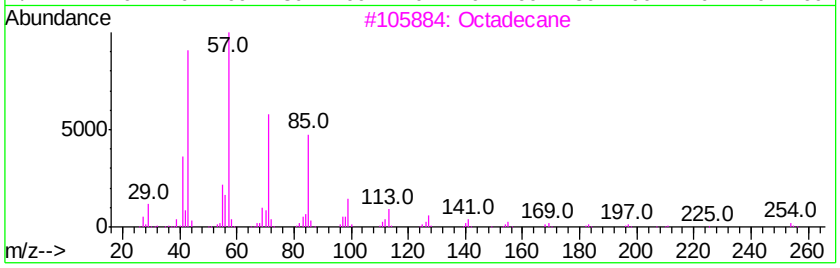
R.T.	EstConc	Area	Relative to ISTD	R.T.
10.66	2.31 ng	94562	Phenanthrene-d10	11.22

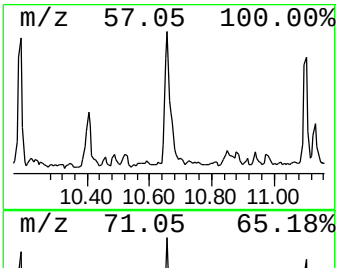
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 3-methyl-	184	C13H28	017312-57-1	81
2	Heptadecane	240	C17H36	000629-78-7	74
3	Octadecane	254	C18H38	000593-45-3	72
4	Eicosane	282	C20H42	000112-95-8	72
5	Hexadecane	226	C16H34	000544-76-3	72

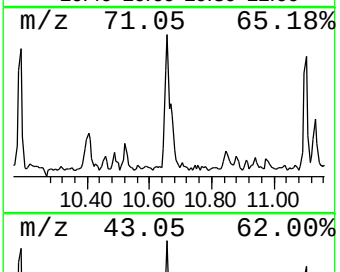


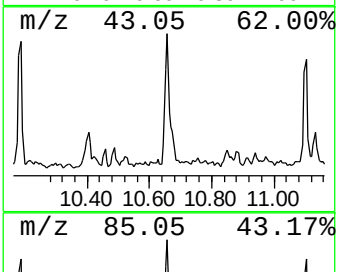


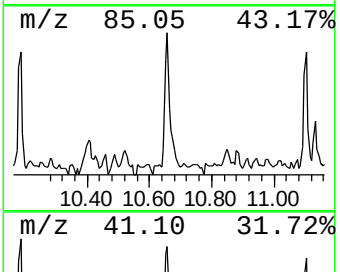


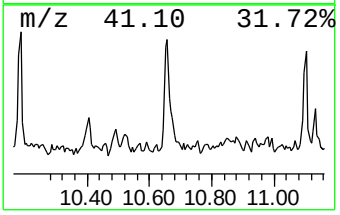












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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

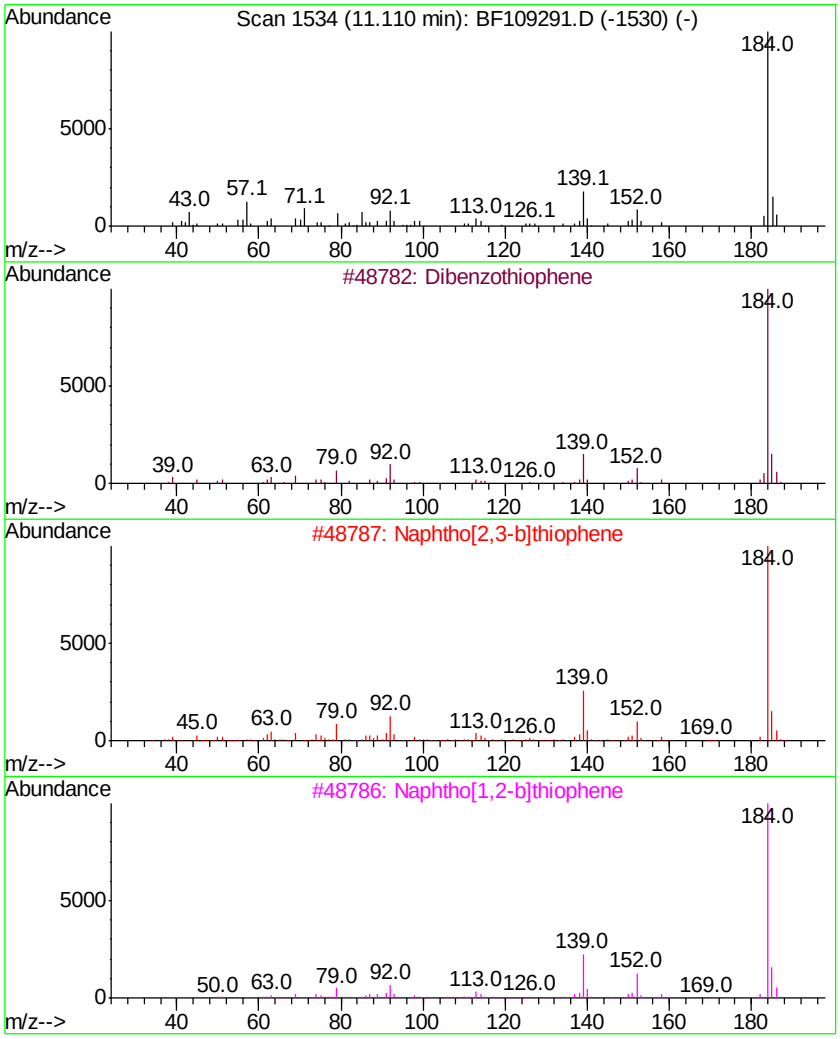
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

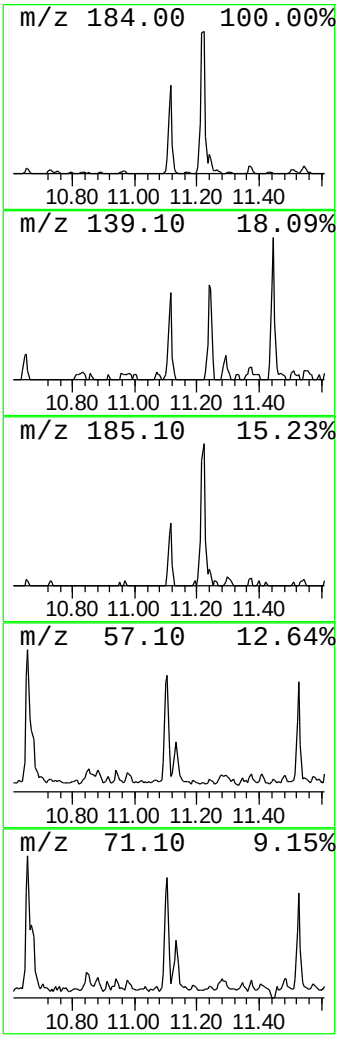
****

Peak Number 4 Dibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.11	2.52 ng	103190	Phenanthrene-d10	11.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





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Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
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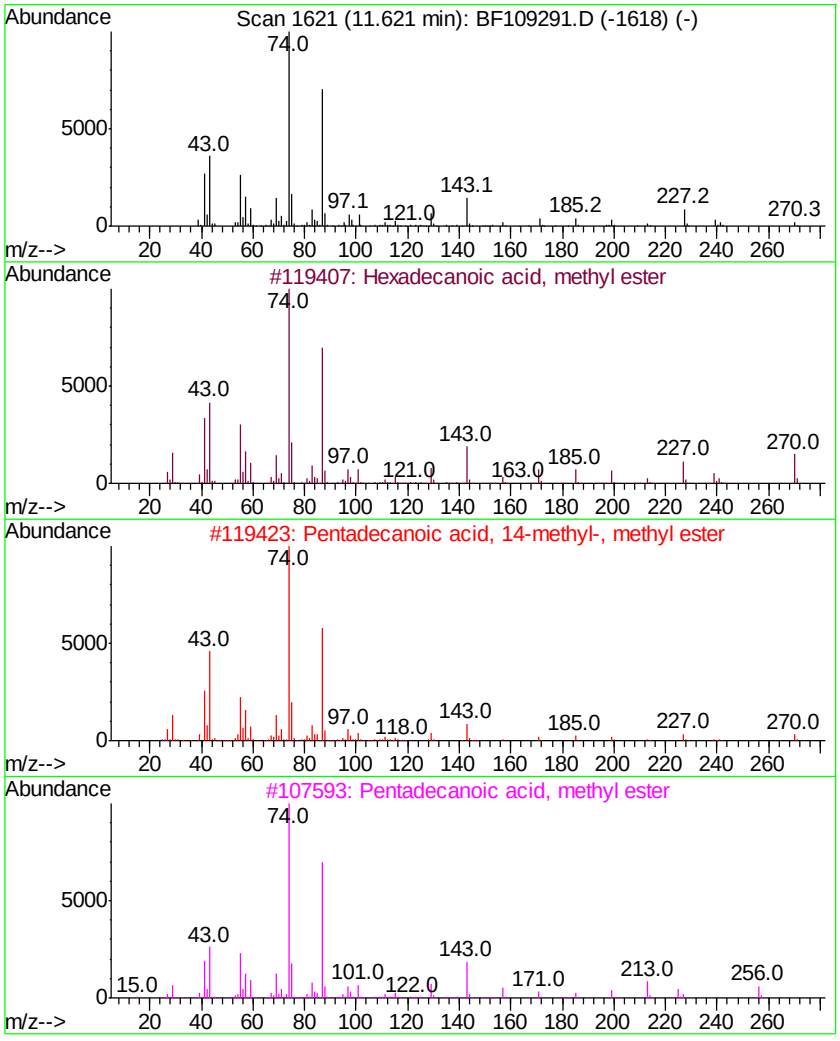
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

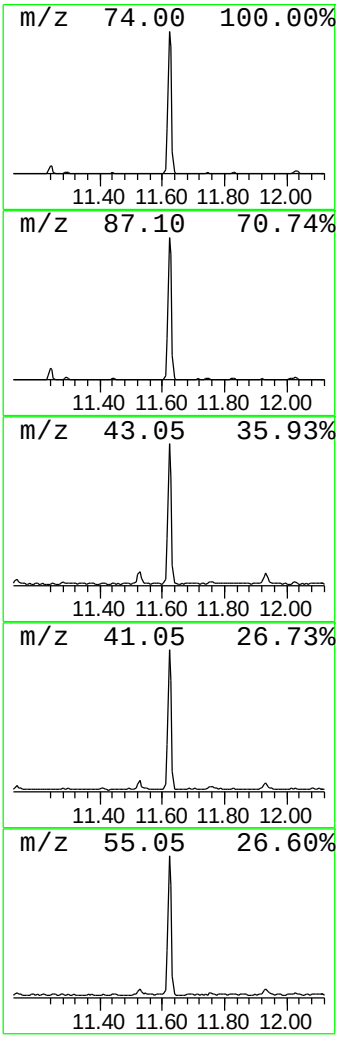
****

Peak Number 5 Hexadecanoic acid, methyl e... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.62	21.06 ng	861441	Phenanthrene-d10	11.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, methyl ester	270	C17H34O2	000112-39-0	97
2	Pentadecanoic acid, 14-methyl-, ...	270	C17H34O2	005129-60-2	90
3	Pentadecanoic acid, methyl ester	256	C16H32O2	007132-64-1	90
4	Dodecanoic acid, methyl ester	214	C13H26O2	000111-82-0	90
5	Methyl tetradecanoate	242	C15H30O2	000124-10-7	86





Library Search Compound Report

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Acq On : 25 Sep 2018 17:44
Operator : JU/SJ
Sample : J4779-05 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-02-092418-A

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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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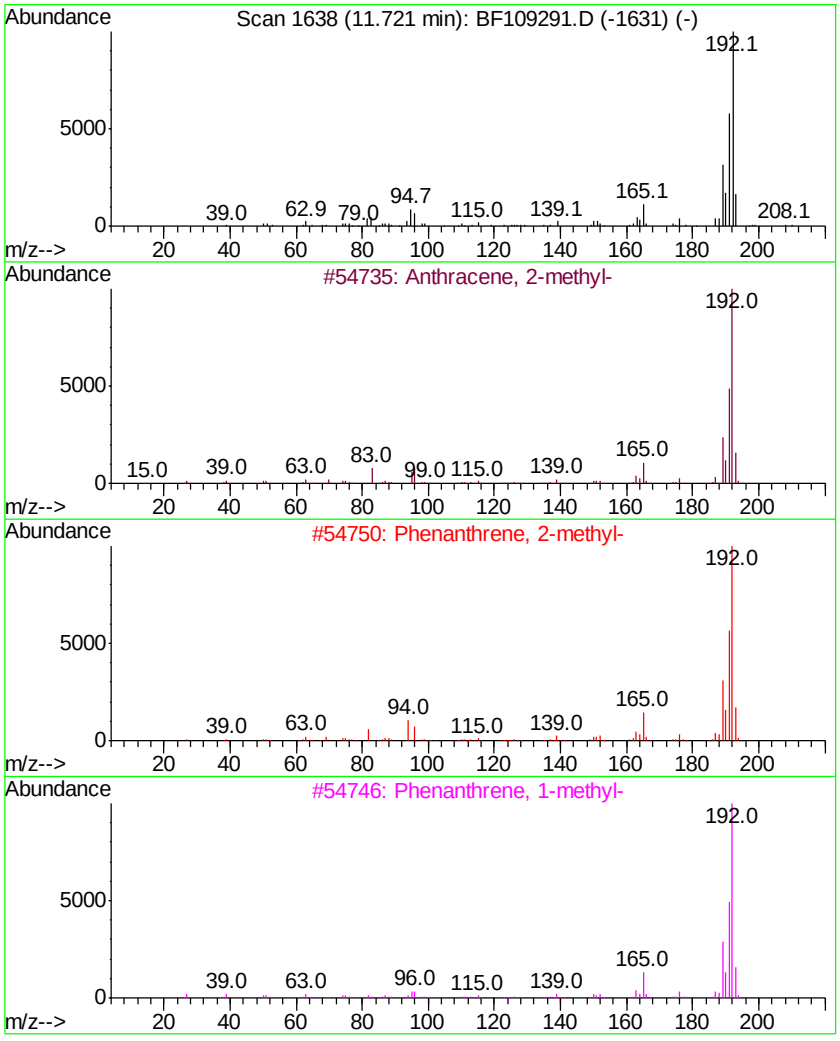
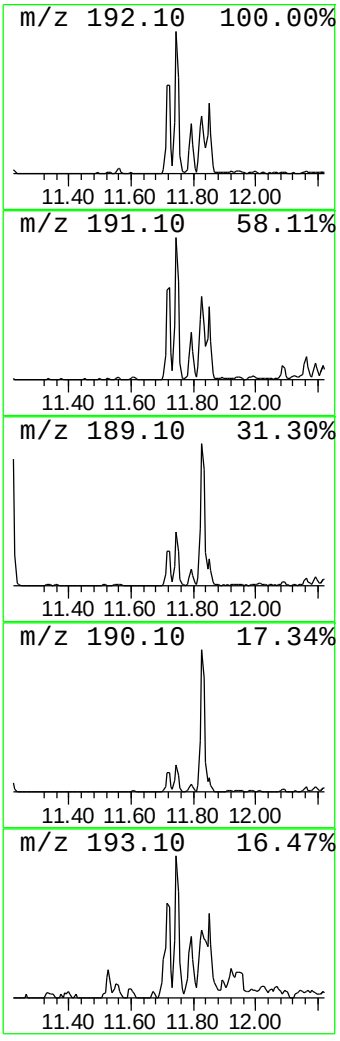
Peak Number 6 Anthracene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.72	3.98 ng	162922	Phenanthrene-d10	11.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87





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Instrument : BNA_F
ClientSampleId : SU-02-092418-A

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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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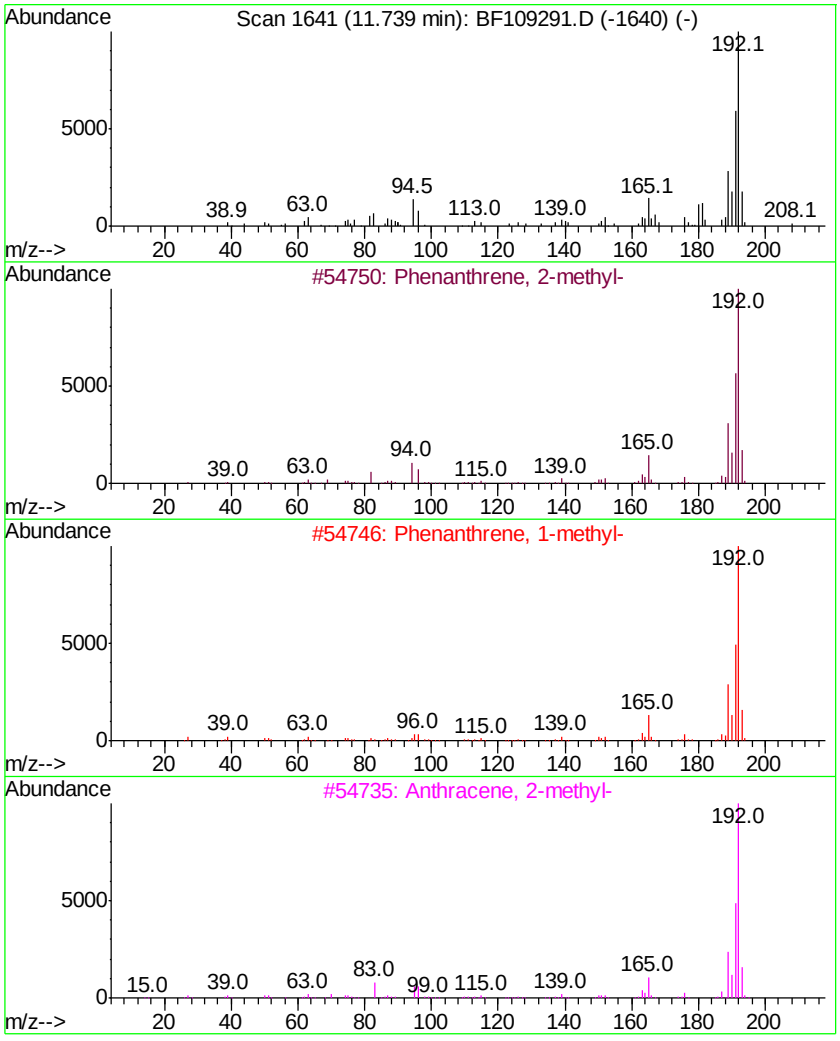
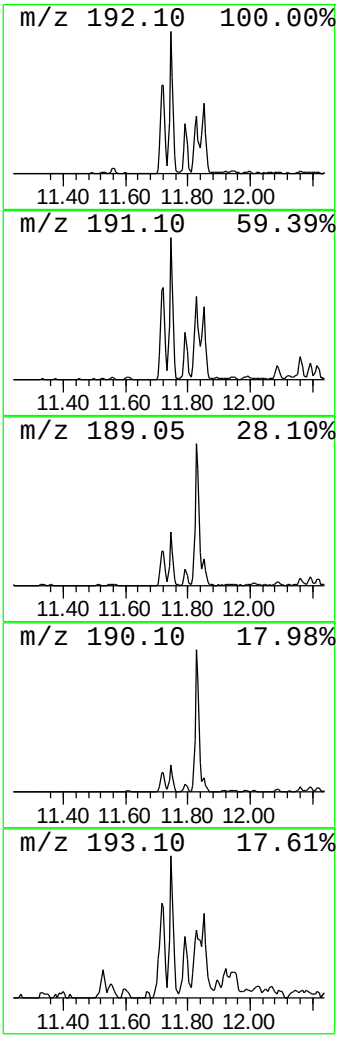
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	5.44 ng	222379	Phenanthrene-d10	11.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	96





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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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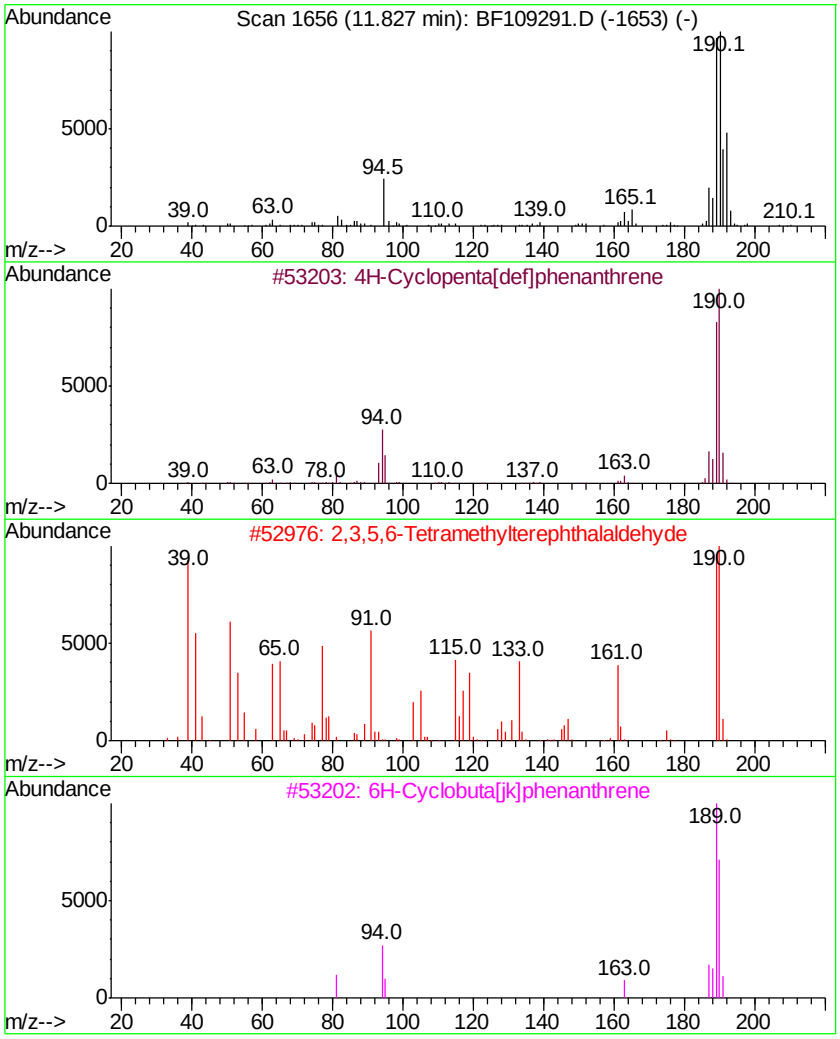
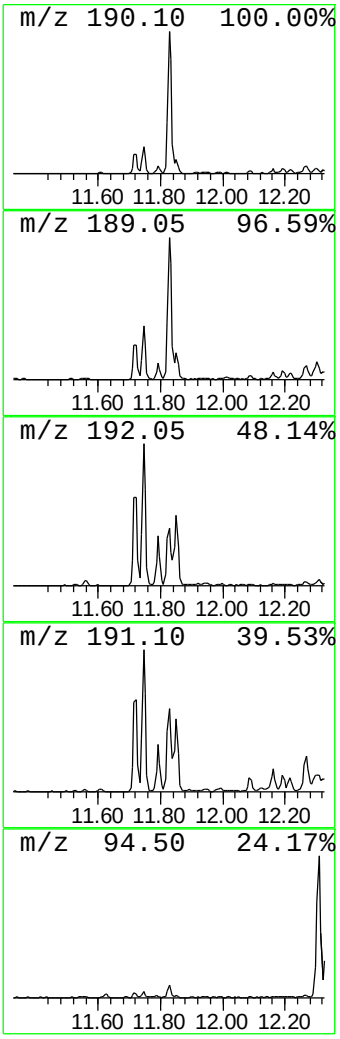
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	7.12 ng	291349	Phenanthrene-d10	11.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
2	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	42
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40
5	Megastigmatrienone	190	C13H18O	038818-55-2	18





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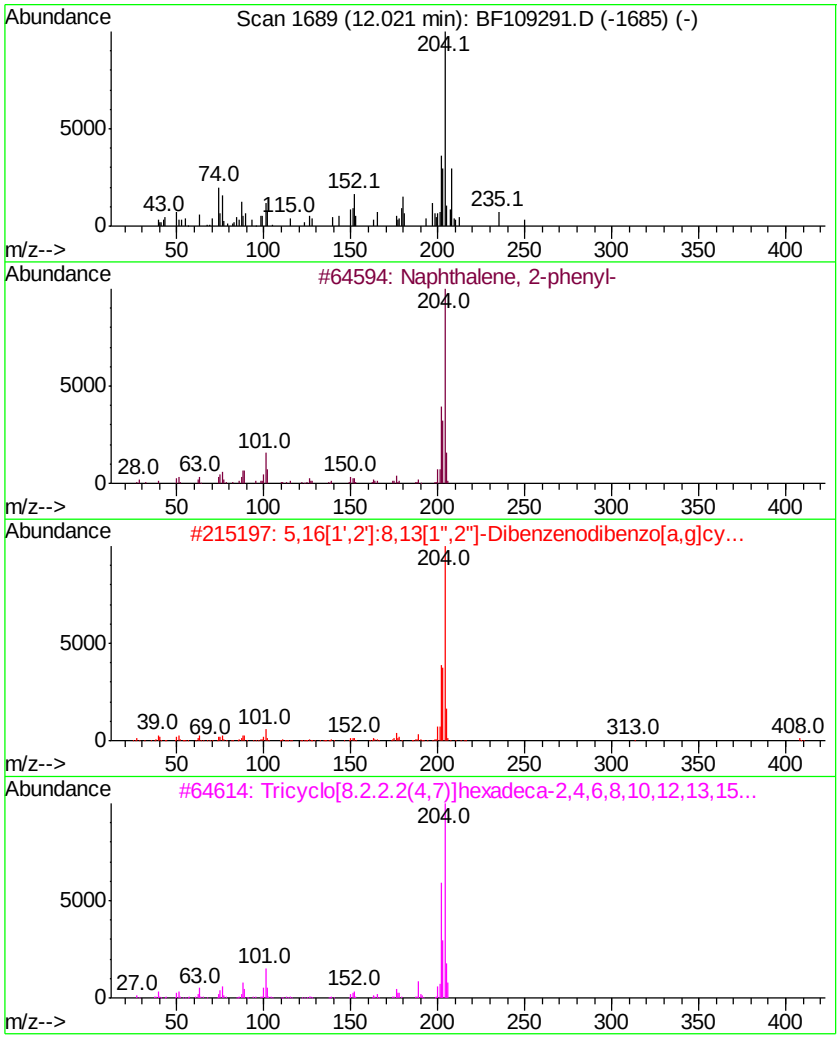
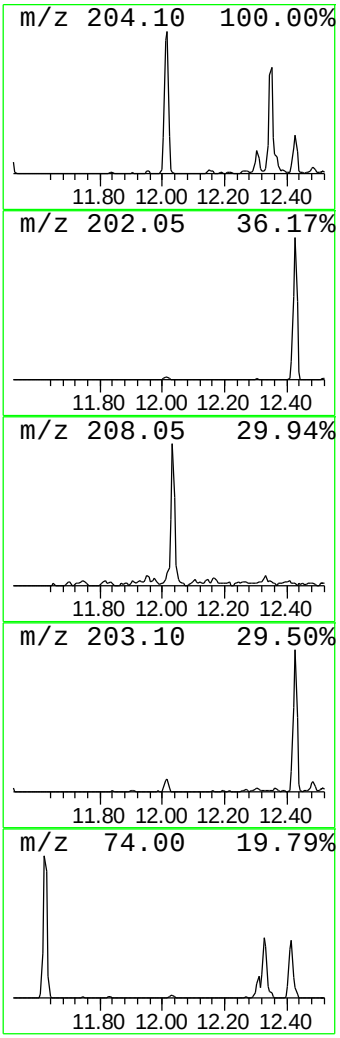
Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	2.75 ng	112300	Phenanthrene-d10	11.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	86
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	62
5	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	55





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ALS Vial : 11 Sample Multiplier: 1

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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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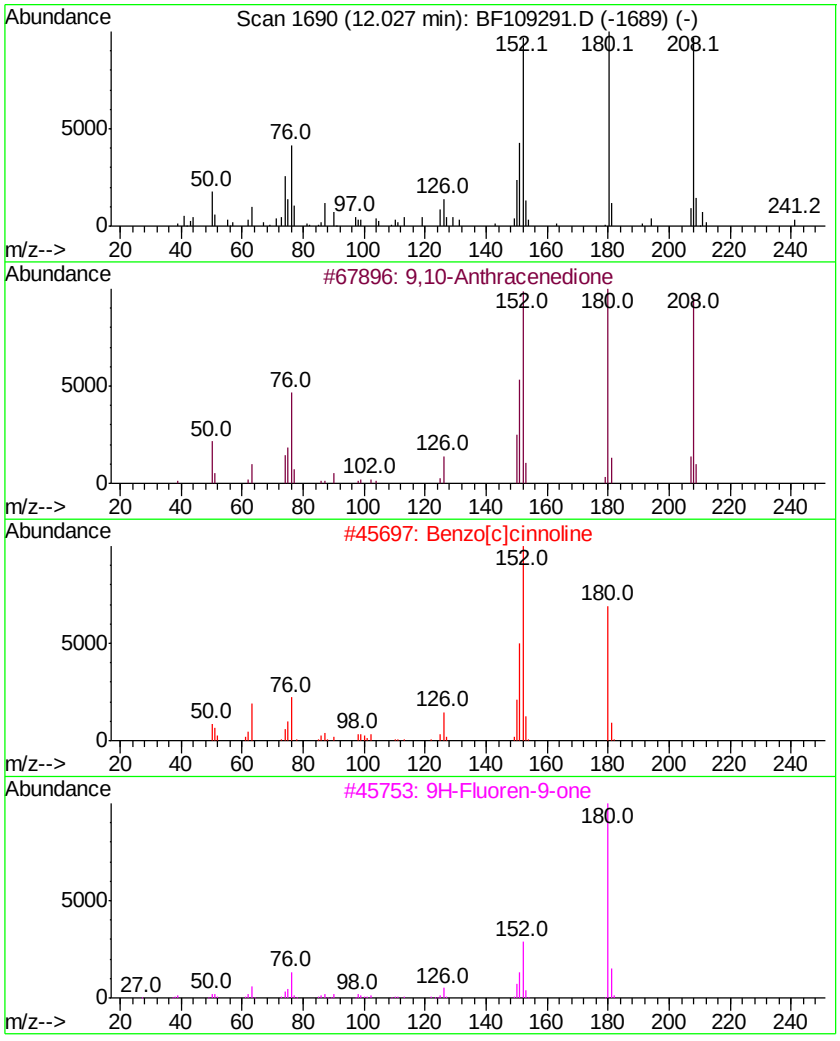
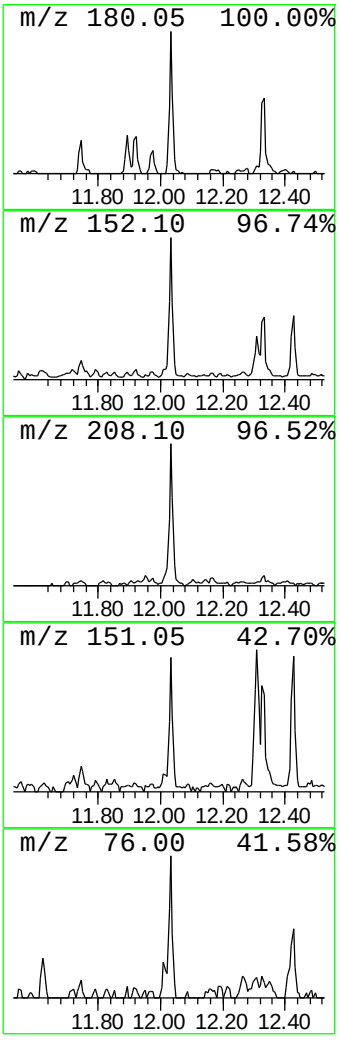
Peak Number 10 9,10-Anthracenedione Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	2.95 ng	120676	Phenanthrene-d10	11.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	60
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	58
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	50





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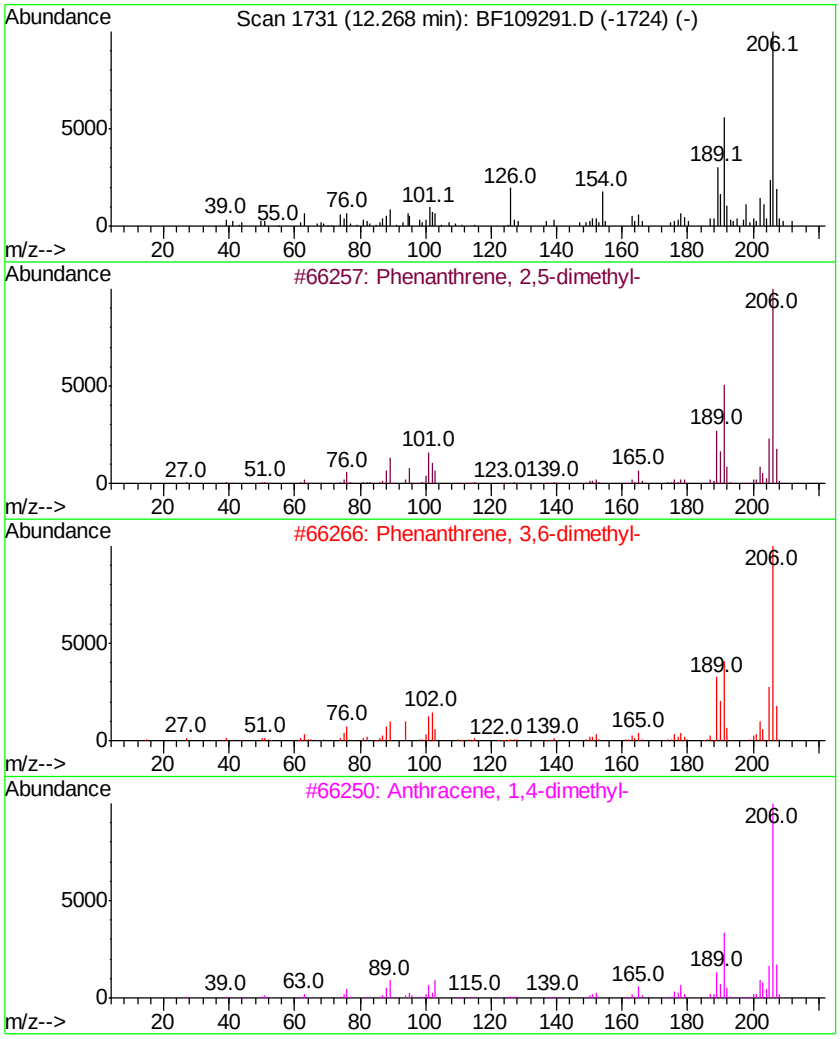
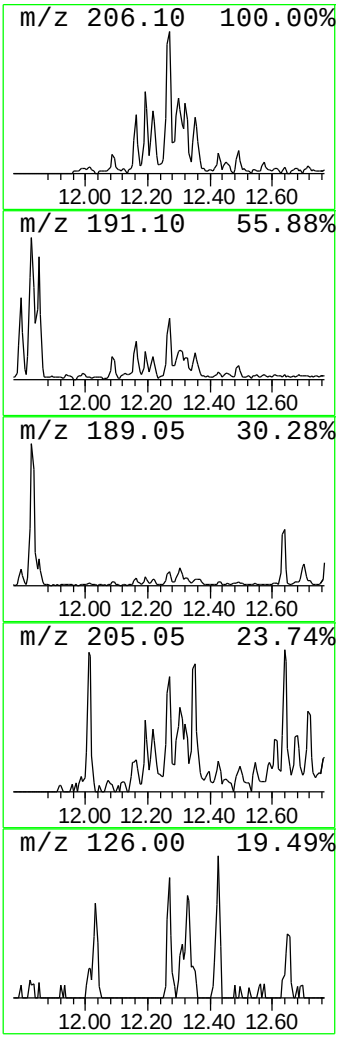
Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	3.14 ng	128499	Phenanthrene-d10	11.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	91
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90





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Sample : J4779-05 5X
Misc :
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Instrument : BNA_F
ClientSampleId : SU-02-092418-A

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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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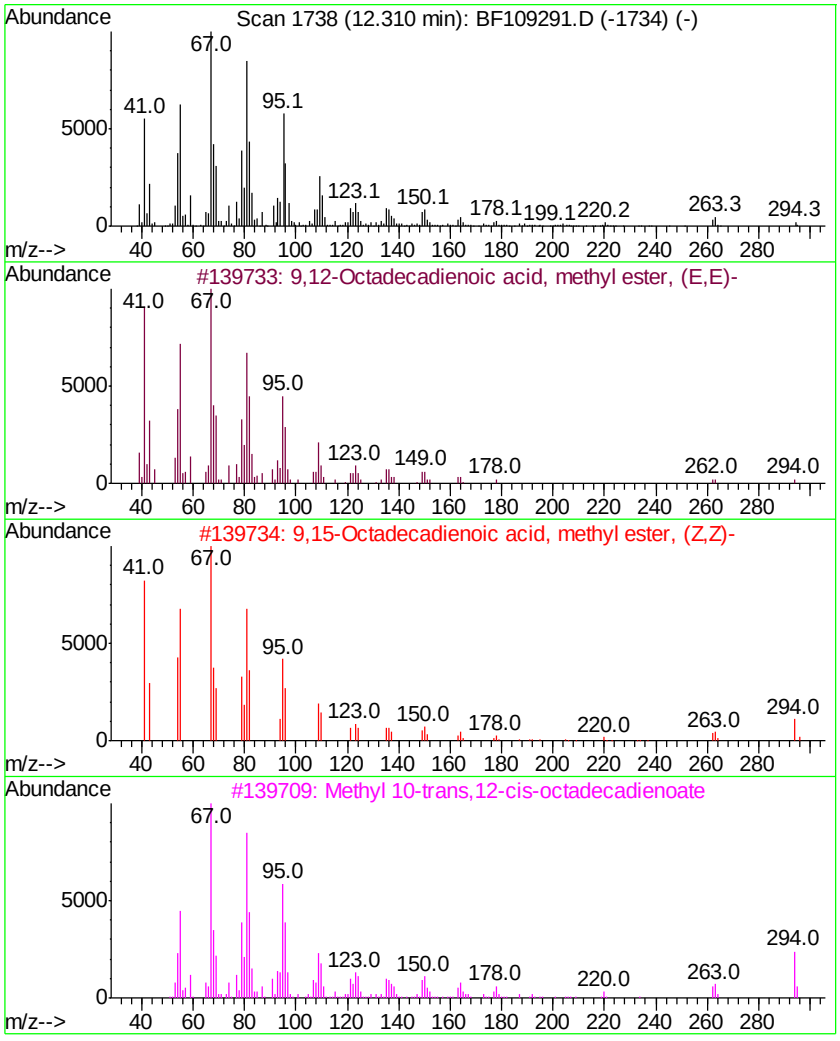
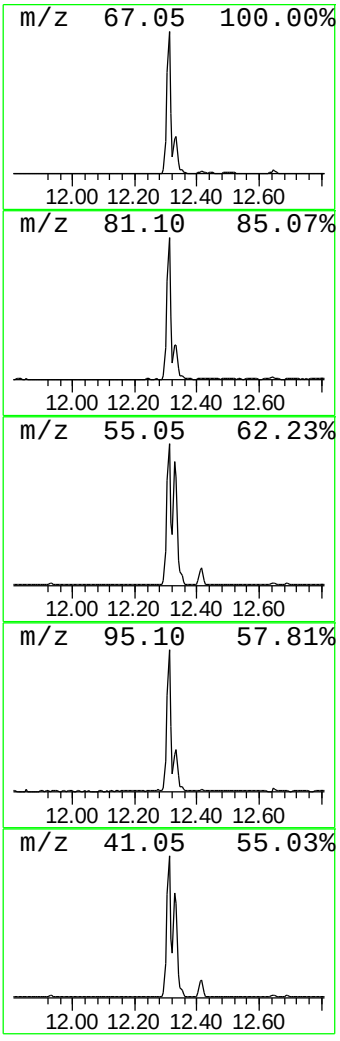
Peak Number 12 9,12-Octadecadienoic acid, ... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.31	74.60 ng	3051970	Phenanthrene-d10	11.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002566-97-4	99
2	9,15-Octadecadienoic acid, methy...	294	C19H34O2	017309-05-6	99
3	Methyl 10-trans,12-cis-octadecad...	294	C19H34O2	1000336-44-2	98
4	10,13-Octadecadienoic acid, meth...	294	C19H34O2	056554-62-2	98
5	11,14-Octadecadienoic acid, meth...	294	C19H34O2	056554-61-1	98





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Misc :
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ClientSampleId : SU-02-092418-A

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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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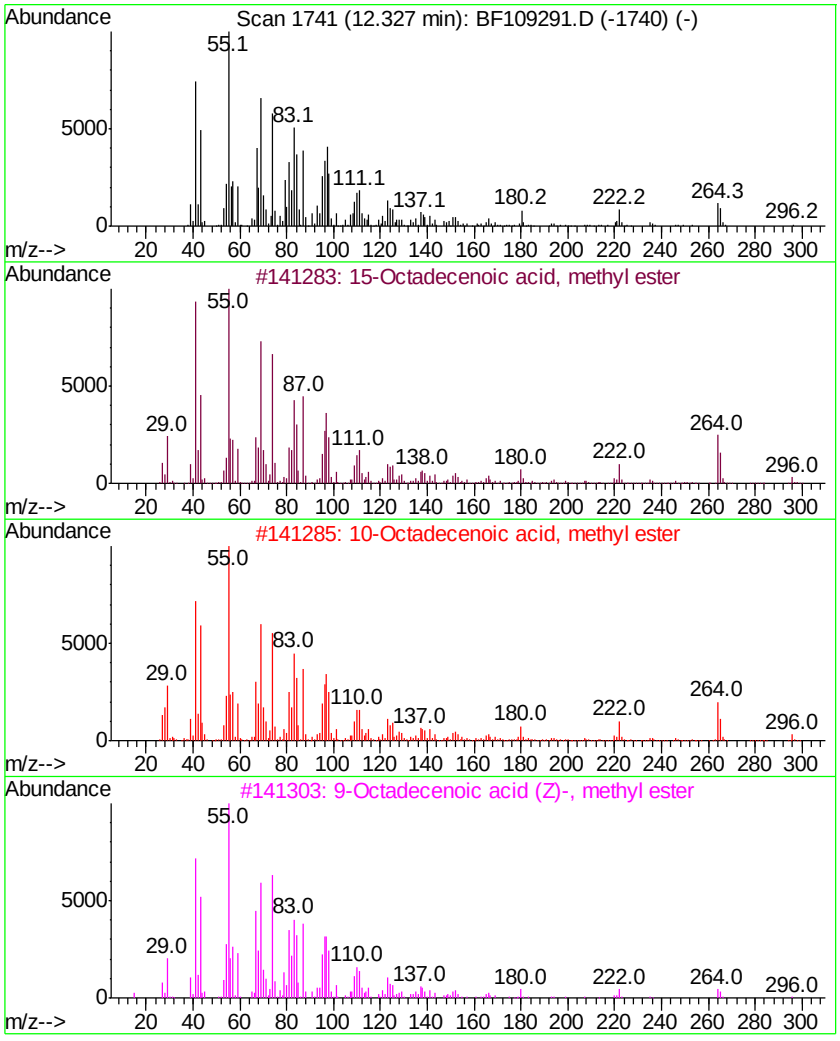
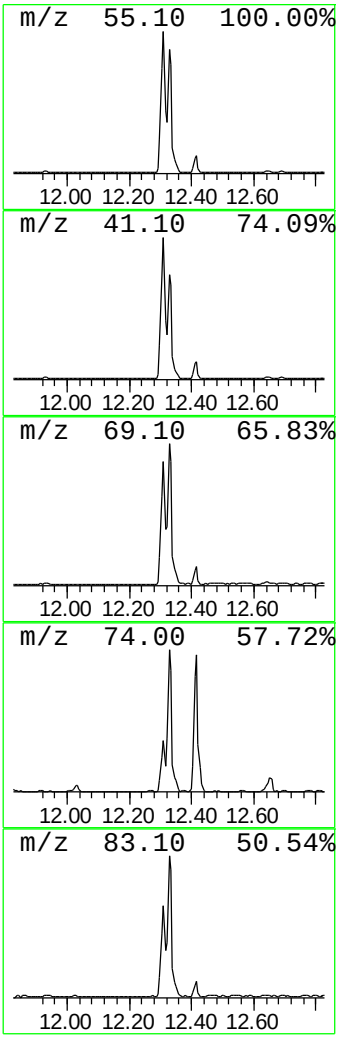
Peak Number 13 15-Octadecenoic acid, methy... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	47.73 ng	1952500	Phenanthrene-d10	11.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	15-Octadecenoic acid, methyl ester	296	C19H36O2	004764-72-1	99
2	10-Octadecenoic acid, methyl ester	296	C19H36O2	013481-95-3	99
3	9-Octadecenoic acid (Z)-, methyl...	296	C19H36O2	000112-62-9	99
4	11-Octadecenoic acid, methyl est...	296	C19H36O2	001937-63-9	99
5	6-Octadecenoic acid, methyl ester	296	C19H36O2	052355-31-4	99





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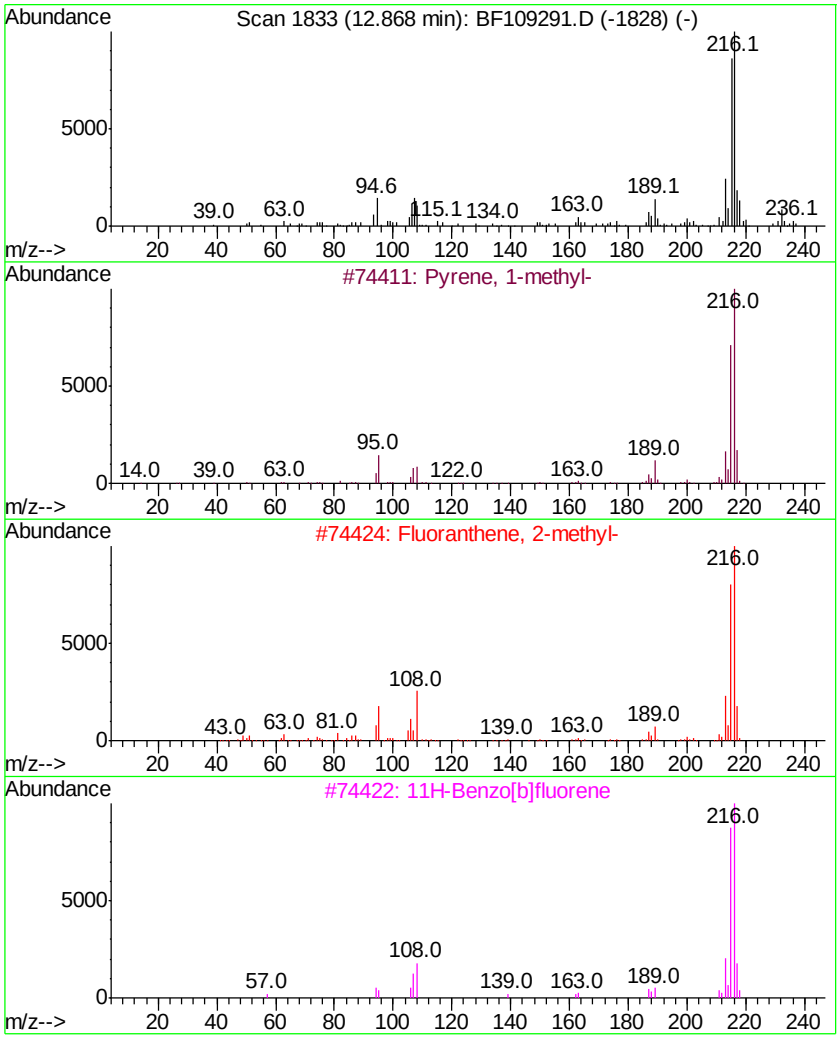
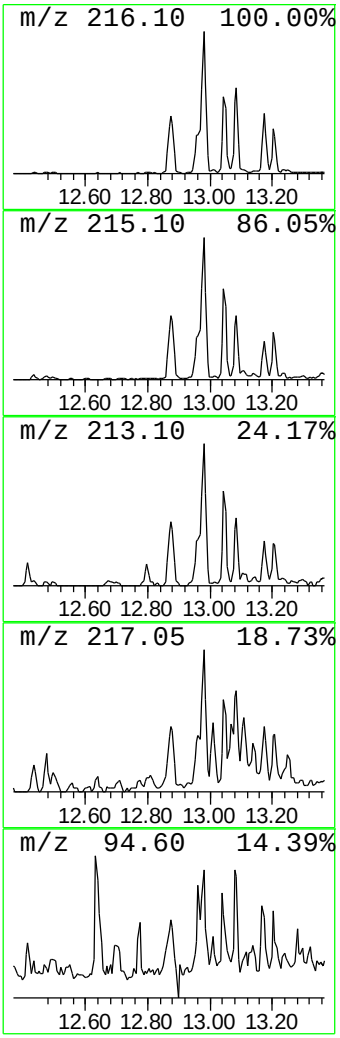
Peak Number 14 Pyrene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.87	2.73 ng	206807	Chrysene-d12	13.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	81
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	64





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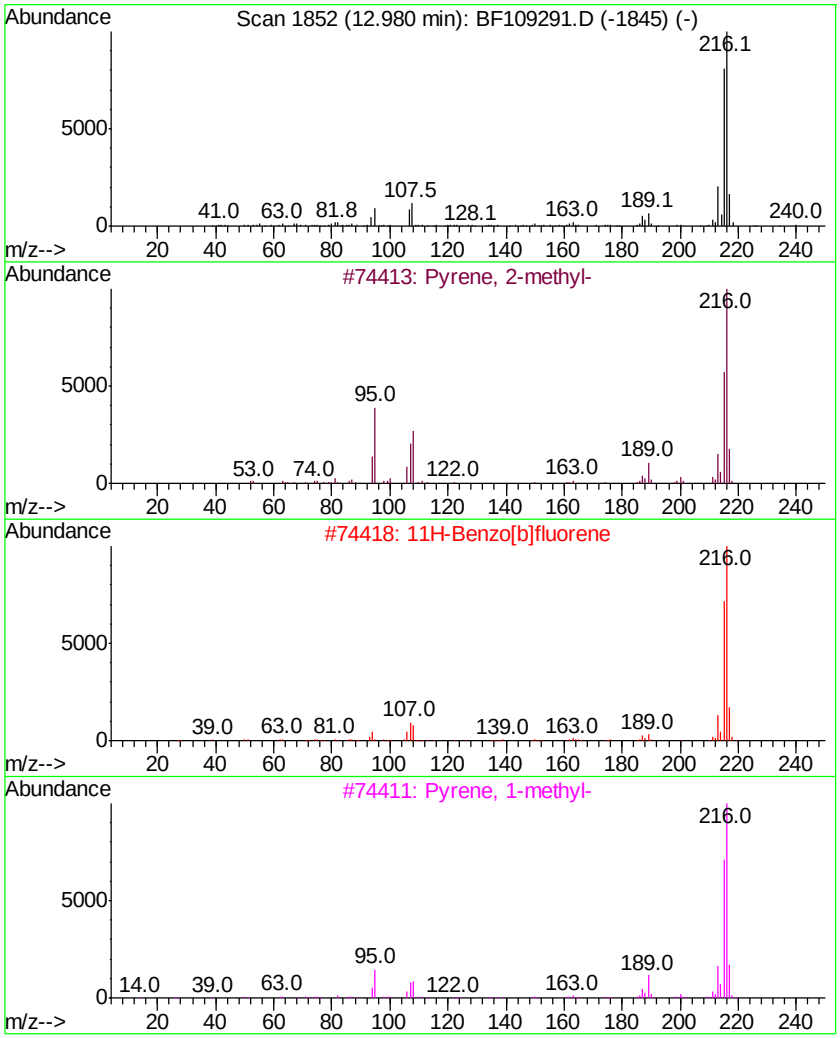
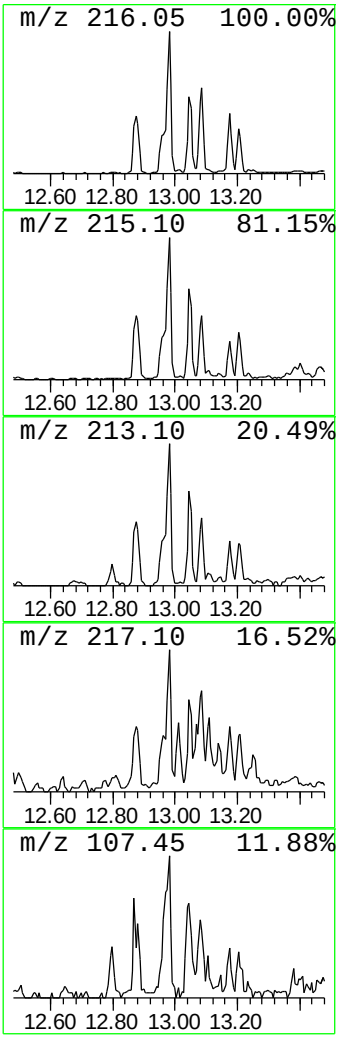
Peak Number 15 Pyrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.98	4.39 ng	332836	Chrysene-d12	13.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	87
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87





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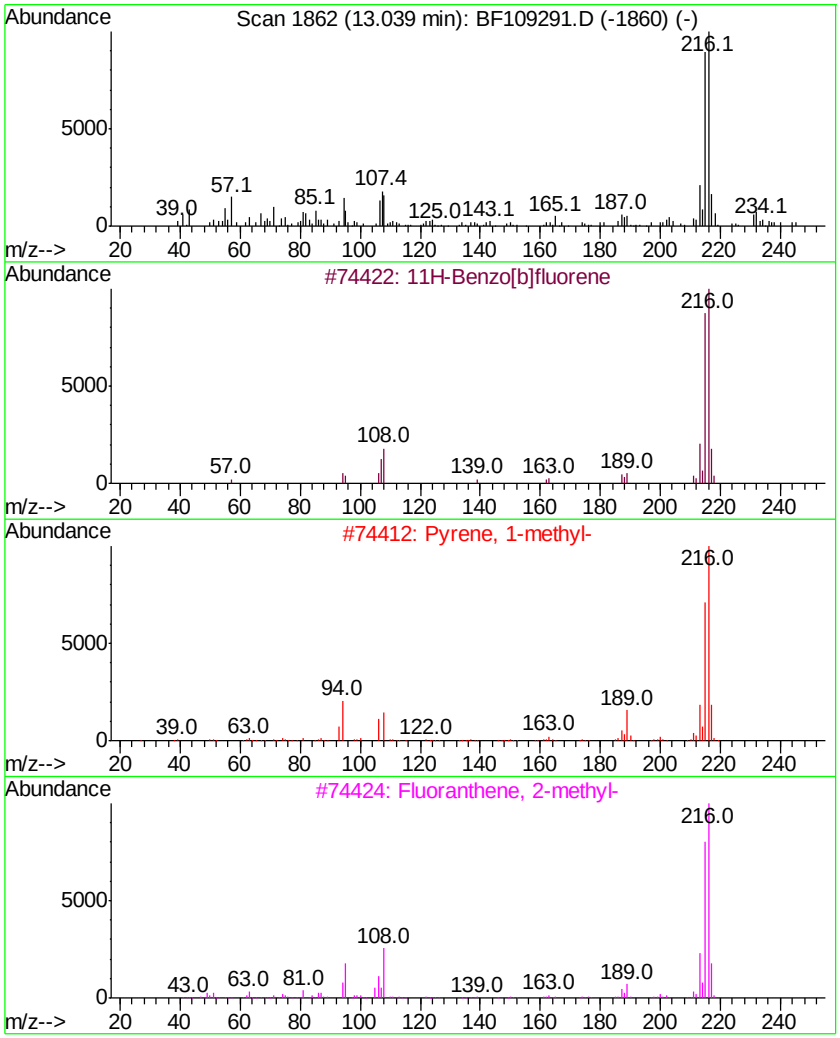
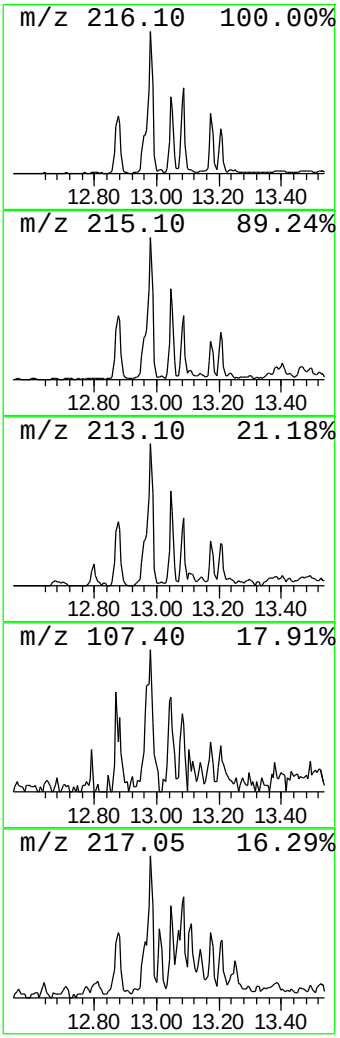
Peak Number 16 11H-Benzo[b]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.04	2.49 ng	188364	Chrysene-d12	13.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	68





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Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-02-092418-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.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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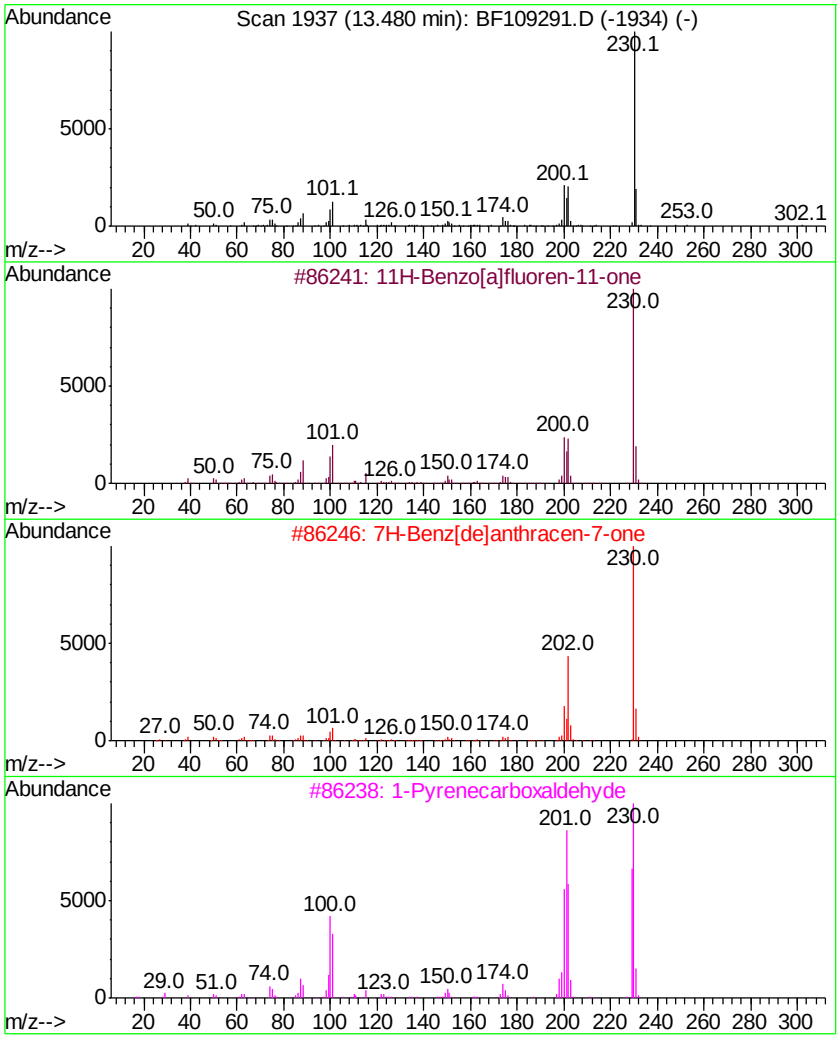
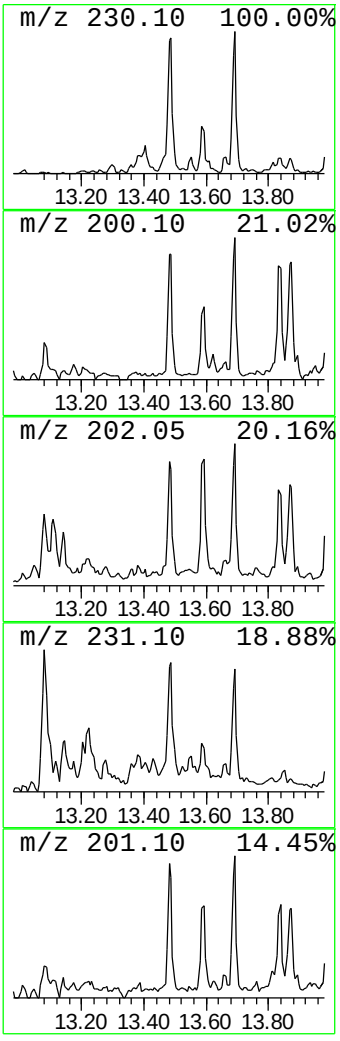
Peak Number 18 11H-Benzo[a]fluoren-11-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.48	2.14 ng	162289	Chrysene-d12	13.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	94
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	56
4	Dibenzo[c,h][2,6]naphthyridine	230	C16H10N2	000218-30-4	50
5	o-Terphenyl	230	C18H14	000084-15-1	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092518\
Data File : BF109291.D
Acq On : 25 Sep 2018 17:44
Operator : JU/SJ
Sample : J4779-05 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-02-092418-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.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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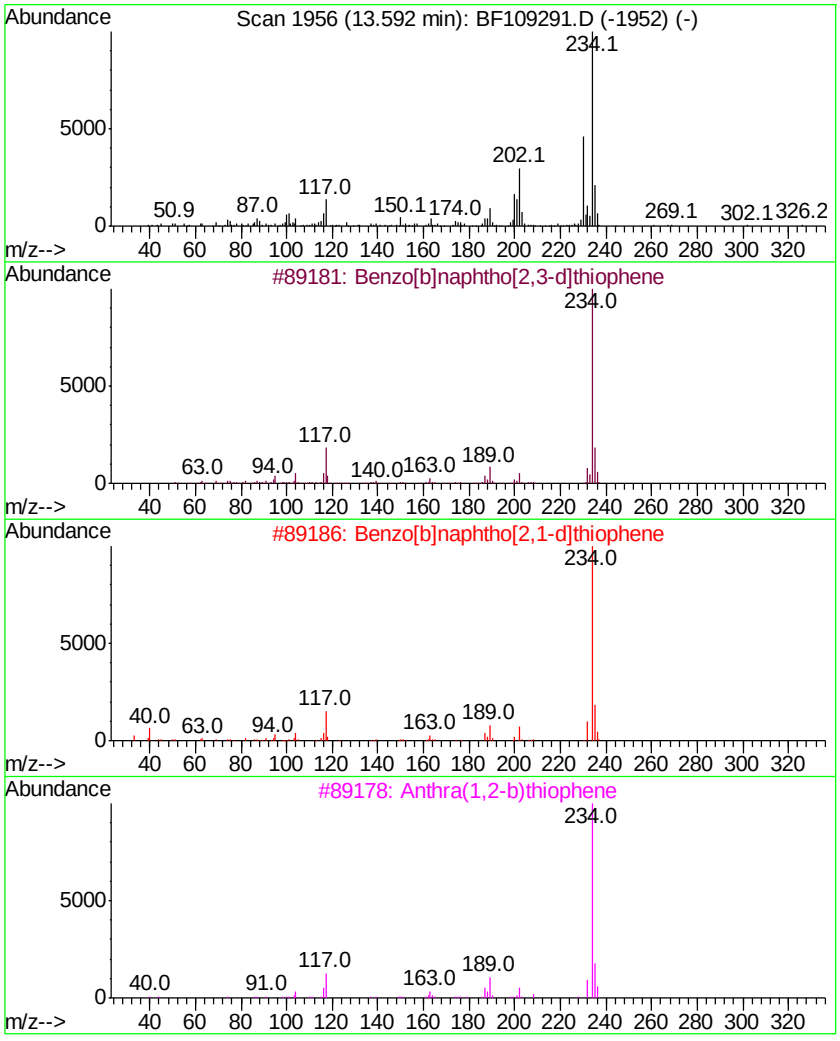
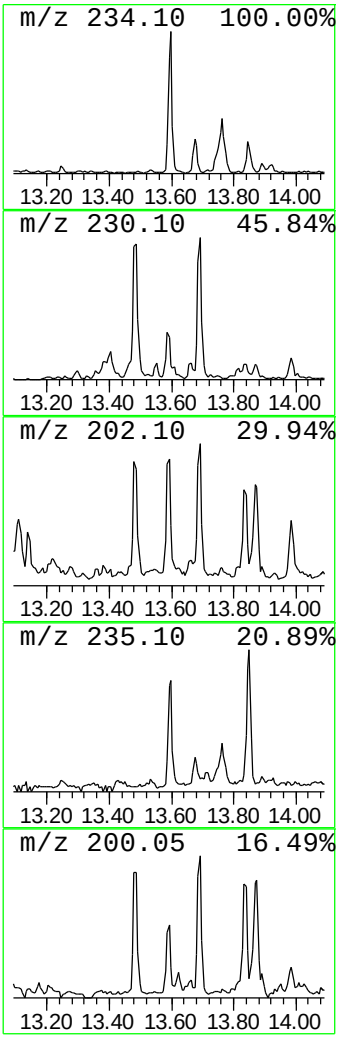
Peak Number 19 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.59	2.46 ng	186176	Chrysene-d12	13.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	83
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	78
3	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	78
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	78
5	Phenanthro(2,1-b)thiophene	234	C16H10S	000219-25-0	43





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092518\
Data File : BF109291.D
Acq On : 25 Sep 2018 17:44
Operator : JU/SJ
Sample : J4779-05 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-02-092418-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.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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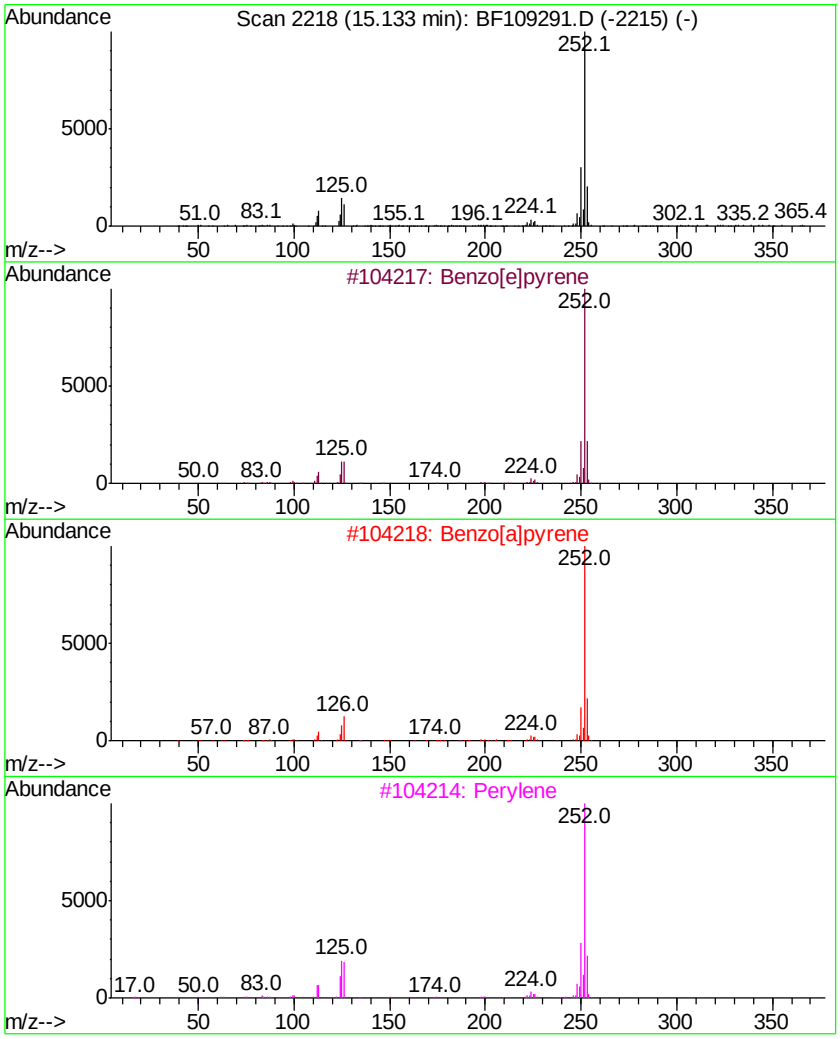
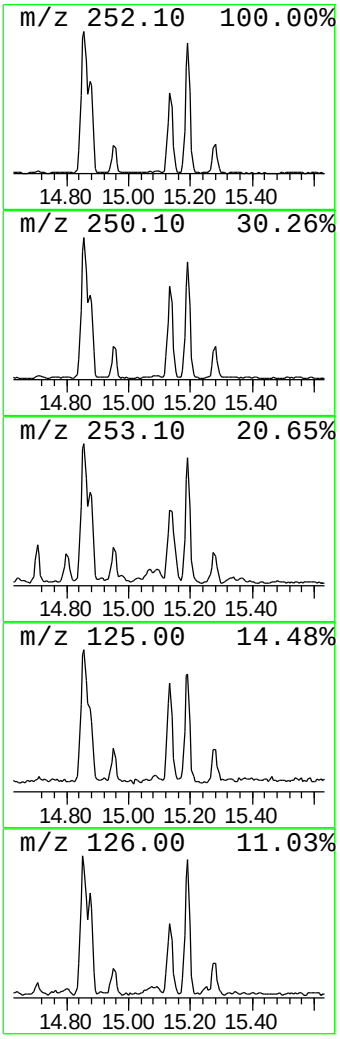
Peak Number 20 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.13	10.97 ng	299973	Perylene-d12	15.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benzo[a]pyrene	252	C20H12	000050-32-8	97
3	Perylene	252	C20H12	000198-55-0	95
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF092518\
Data File : BF109291.D
Acq On : 25 Sep 2018 17:44
Operator : JU/SJ
Sample : J4779-05 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-02-092418-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.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
unknown6.47	6.47	11.3	ng	388631	1	6.71	690777	20.0
Dodecane, 3-methyl-	10.66	2.3	ng	94562	4	11.22	818215	20.0
Dibenzothiophene	11.11	2.5	ng	103190	4	11.22	818215	20.0
Hexadecanoic acid...	11.62	21.1	ng	861441	4	11.22	818215	20.0
Anthracene, 2-met...	11.72	4.0	ng	162922	4	11.22	818215	20.0
Phenanthrene, 2-m...	11.74	5.4	ng	222379	4	11.22	818215	20.0
4H-Cyclopenta[def...	11.83	7.1	ng	291349	4	11.22	818215	20.0
Naphthalene, 2-ph...	12.02	2.8	ng	112300	4	11.22	818215	20.0
9,10-Anthracenedione	12.03	3.0	ng	120676	4	11.22	818215	20.0
Phenanthrene, 2,5...	12.27	3.1	ng	128499	4	11.22	818215	20.0
9,12-Octadecadien...	12.31	74.6	ng	3051970	4	11.22	818215	20.0
15-Octadecenoic a...	12.33	47.7	ng	1952500	4	11.22	818215	20.0
Pyrene, 1-methyl-	12.87	2.7	ng	206807	5	13.84	1515250	20.0
Pyrene, 2-methyl-	12.98	4.4	ng	332836	5	13.84	1515250	20.0
11H-Benzo[b]fluorene	13.04	2.5	ng	188364	5	13.84	1515250	20.0
11H-Benzo[a]fluor...	13.48	2.1	ng	162289	5	13.84	1515250	20.0
Benzo[b]naphtho[2...	13.59	2.5	ng	186176	5	13.84	1515250	20.0
Benzo[e]pyrene	15.13	11.0	ng	299973	6	15.25	547036	20.0