LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
Data File : BF096887.D
Acq On : 19 Jul 2017 23:16
Operator : SJ/JU
Sample : I4276-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6-COMP-(0-8)

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

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.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	2.840	144	145	154	rBV2	28877	65038	2.23%	0.184%
2	4.763	468	472	484	rVB	229721	359824	12.35%	1.017%
3	5.198	541	546	549	rBV	2571751	2839301	97.46%	8.024%
4	6.245	718	724	737	rBV	2426195	2913231	100.00%	8.233%
5	6.363	739	744	747	rBV	2672337	2581979	88.63%	7.296%
6	6.587	779	782	786	rBV	753785	621250	21.33%	1.756%
7	6.745	805	809	812	rBV	1977450	1763023	60.52%	4.982%
8	7.157	873	879	882	rBV	1613407	1608730	55.22%	4.546%
9	7.869	996	1000	1003	rBV	1056314	921497	31.63%	2.604%
10	8.951	1179	1184	1187	rBV	2379541	2149356	73.78%	6.074%
11	9.281	1235	1240	1243	rBV	30564	30651	1.05%	0.087%
12	9.345	1247	1251	1254	rBV	459191	365008	12.53%	1.031%
13	9.480	1270	1274	1276	rVB	36627	32145	1.10%	0.091%
14	9.569	1287	1289	1292	rVB	35504	31847	1.09%	0.090%
15	9.622	1292	1298	1301	rVV	846820	845895	29.04%	2.390%
16	9.651	1301	1303	1307	rVB	56063	45213	1.55%	0.128%
17	9.822	1329	1332	1337	rBV	58876	47902	1.64%	0.135%
18	10.069	1371	1374	1377	rVB	62879	48897	1.68%	0.138%
19	10.163	1387	1390	1392	rBV2	69358	56906	1.95%	0.161%
20	10.286	1407	1411	1414	rBV5	24465	33558	1.15%	0.095%
21	10.322	1414	1417	1419	rBV	54704	44928	1.54%	0.127%
22	10.404	1427	1431	1436	rBV	1350843	1229994	42.22%	3.476%
23	10.539	1451	1454	1460	rVB2	71787	90611	3.11%	0.256%
24	10.710	1476	1483	1486	rBV4	30247	51349	1.76%	0.145%
25	10.839	1500	1505	1507	rBV4	42619	46661	1.60%	0.132%
26	10.863	1507	1509	1513	rVV3	37589	42704	1.47%	0.121%
27	10.904	1513	1516	1521	rVB	85136	79831	2.74%	0.226%
28	10.951	1521	1524	1527	rBV2	47826	58075	1.99%	0.164%
29	10.986	1527	1530	1533	rBV2	110446	97862	3.36%	0.277%
30	11.098	1544	1549	1550	rBV	736518	681125	23.38%	1.925%
31	11.122	1550	1553	1556	rVV	1651186	1421940	48.81%	4.018%
32	11.169	1556	1561	1565	rVB	318163	272976	9.37%	0.771%
33	11.327	1584	1588	1591	rBV	61288	61124	2.10%	0.173%
34	11.392	1596	1599	1601	rVV	47790	43311	1.49%	0.122%

LSC Area Percent Report

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Operator : SJ/JU
Sample : I4276-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6-COMP-(0-8)

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

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.427	1601	1605	1609	rVB5	51807	70557	2.42%	0.199%
36	11.598	1628	1634	1636	rBV	247790	222717	7.65%	0.629%
37	11.622	1636	1638	1644	rVV	327046	311214	10.68%	0.879%
38	11.669	1644	1646	1649	rVB	112608	94374	3.24%	0.267%
39	11.704	1649	1652	1655	rBV	226156	251662	8.64%	0.711%
40	11.727	1655	1656	1659	rVB	138425	88164	3.03%	0.249%
41	11.892	1681	1684	1686	rBV	182262	147713	5.07%	0.417%
42	11.916	1686	1688	1691	rVB	111144	88502	3.04%	0.250%
43	12.039	1704	1709	1712	rBV2	54317	59911	2.06%	0.169%
44	12.074	1712	1715	1717	rVV	44588	41614	1.43%	0.118%
45	12.098	1717	1719	1721	rVB	41320	32533	1.12%	0.092%
46	12.145	1721	1727	1730	rBV	119714	142427	4.89%	0.402%
47	12.180	1730	1733	1735	rVV2	51548	57930	1.99%	0.164%
48	12.204	1735	1737	1739	rVV	50618	36968	1.27%	0.104%
49	12.227	1739	1741	1746	rVB	140167	132432	4.55%	0.374%
50	12.310	1750	1755	1758	rBV	1851187	1717689	58.96%	4.854%
51	12.351	1760	1762	1764	rBV	38298	35974	1.23%	0.102%
52	12.451	1772	1779	1784	rBV3	72535	123059	4.22%	0.348%
53	12.533	1787	1793	1796	rBV2	1477901	1602821	55.02%	4.529%
54	12.580	1798	1801	1803	rBV	71231	66481	2.28%	0.188%
55	12.651	1810	1813	1815	rBV	132542	129394	4.44%	0.366%
56	12.680	1815	1818	1821	rVV	1267359	1143035	39.24%	3.230%
57	12.751	1824	1830	1834	rBV2	127957	222310	7.63%	0.628%
58	12.833	1841	1844	1846	rBV3	95509	107307	3.68%	0.303%
59	12.857	1846	1848	1851	rVB	129018	110632	3.80%	0.313%
60	12.927	1857	1860	1862	rBV2	47385	48648	1.67%	0.137%
61	12.963	1862	1866	1873	rVV	169199	207497	7.12%	0.586%
62	13.051	1878	1881	1884	rVB2	71906	58843	2.02%	0.166%
63	13.080	1884	1886	1890	rBV2	71149	75886	2.60%	0.214%
64	13.151	1896	1898	1909	rVB6	24110	49415	1.70%	0.140%
65	13.245	1909	1914	1916	rBV4	41807	67883	2.33%	0.192%
66	13.280	1916	1920	1923	rVB3	35916	62786	2.16%	0.177%
67	13.363	1931	1934	1939	rVB	237614	209663	7.20%	0.592%
68	13.468	1949	1952	1955	rBV2	179163	200574	6.88%	0.567%
69	13.498	1955	1957	1959	rVV	109046	86576	2.97%	0.245%
70	13.521	1959	1961	1964	rVV	67126	48789	1.67%	0.138%
71	13.568	1967	1969	1972	rBV	162234	169028	5.80%	0.478%

LSC Area Percent Report

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Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6-COMP-(0-8)

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:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.639	1979	1981	1988	rVB2	36893	51347	1.76%	0.145%
73	13.721	1988	1995	1998	rBV2	980505	1496336	51.36%	4.229%
74	13.751	1998	2000	2003	rVB	683234	547538	18.79%	1.547%
75	13.827	2011	2013	2015	rVB	47500	34503	1.18%	0.098%
76	13.951	2030	2034	2037	rVB2	51955	75442	2.59%	0.213%
77	13.986	2037	2040	2042	rBV2	36501	37822	1.30%	0.107%
78	14.051	2047	2051	2053	rBV5	23705	35074	1.20%	0.099%
79	14.074	2053	2055	2057	rBV2	41259	36905	1.27%	0.104%
80	14.110	2057	2061	2064	rVV	150923	148681	5.10%	0.420%
81	14.145	2064	2067	2070	rVB	72326	69694	2.39%	0.197%
82	14.233	2079	2082	2084	rBV2	36660	39917	1.37%	0.113%
83	14.310	2092	2095	2099	rVB2	37903	44667	1.53%	0.126%
84	14.515	2128	2130	2133	rVB3	45446	40823	1.40%	0.115%
85	14.568	2137	2139	2148	rVB3	45558	96270	3.30%	0.272%
86	14.721	2161	2165	2168	rBV	519583	751767	25.81%	2.124%
87	14.815	2178	2181	2184	rVB	105564	98743	3.39%	0.279%
88	14.986	2206	2210	2215	rVB	285455	329669	11.32%	0.932%
89	15.045	2215	2220	2224	rVB	360958	421577	14.47%	1.191%
90	15.098	2225	2229	2232	rBV	351123	421536	14.47%	1.191%
91	15.121	2232	2233	2243	rVB2	124914	142361	4.89%	0.402%
92	16.374	2442	2446	2453	rVB2	165976	286747	9.84%	0.810%
93	16.527	2469	2472	2475	rBV2	36997	46887	1.61%	0.132%
94	16.756	2507	2511	2521	rVB	114414	225722	7.75%	0.638%

Sum of corrected areas: 35386778

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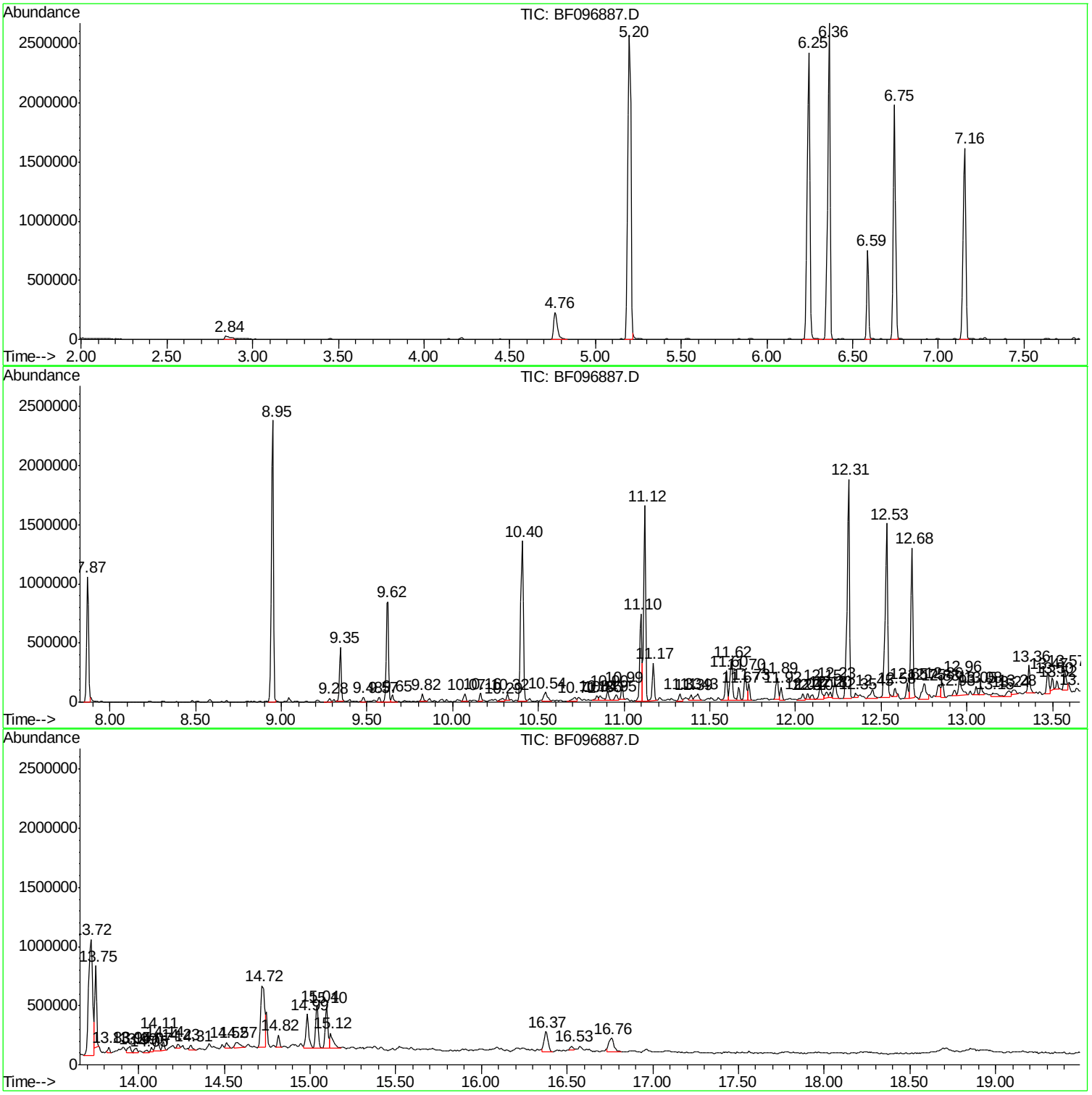
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6-COMP-(0-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
Data File : BF096887.D
Acq On : 19 Jul 2017 23:16
Operator : SJ/JU
Sample : I4276-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6-COMP-(0-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

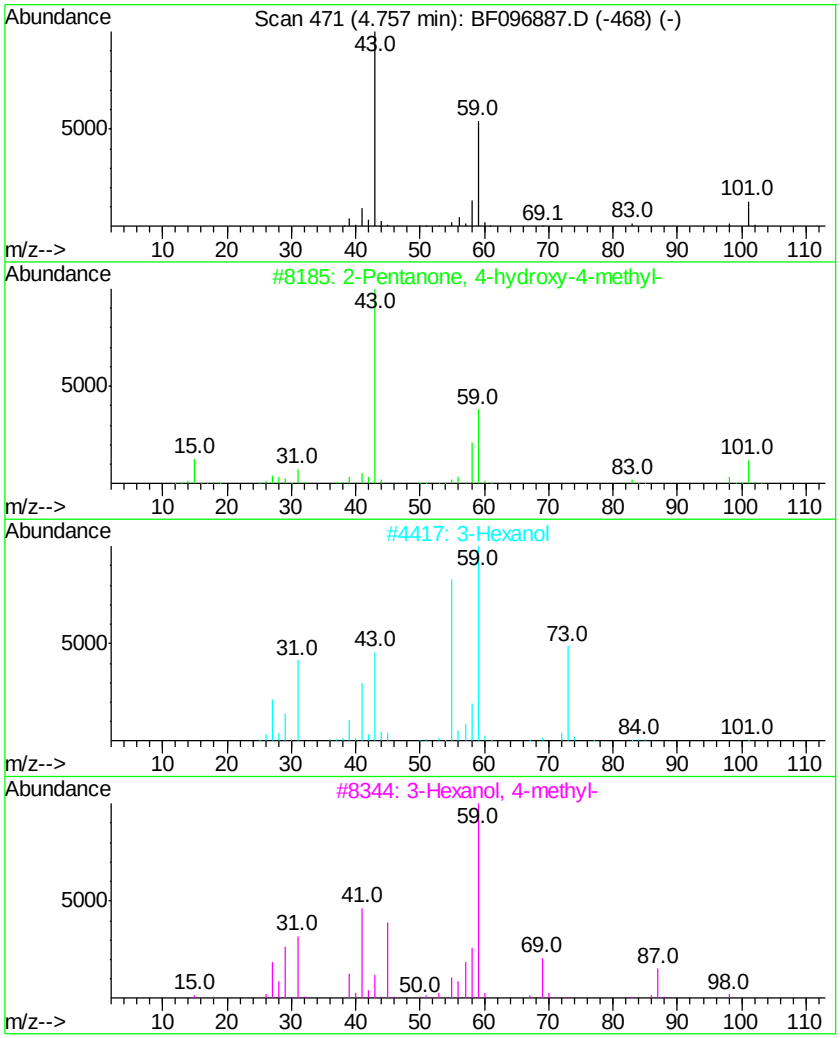
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

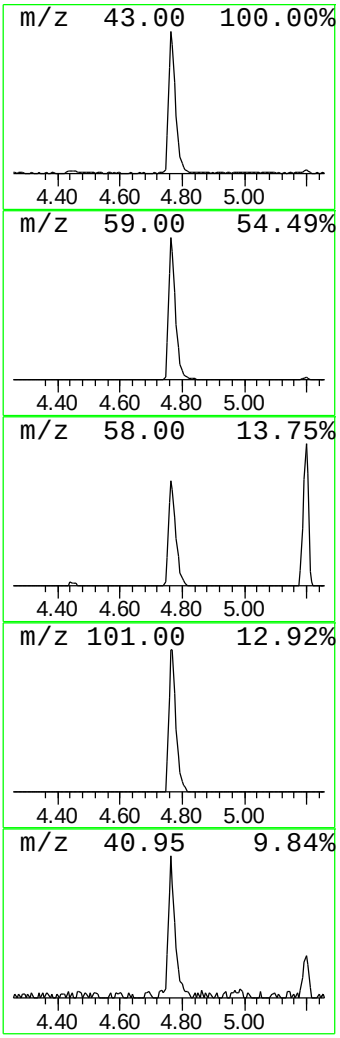
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.76	11.58 ng	359824	1,4-Dichlorobenzene-d4	6.59

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	3-Hexanol	102	C6H14O	000623-37-0	33
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
5	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
Data File : BF096887.D
Acq On : 19 Jul 2017 23:16
Operator : SJ/JU
Sample : I4276-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6-COMP-(0-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

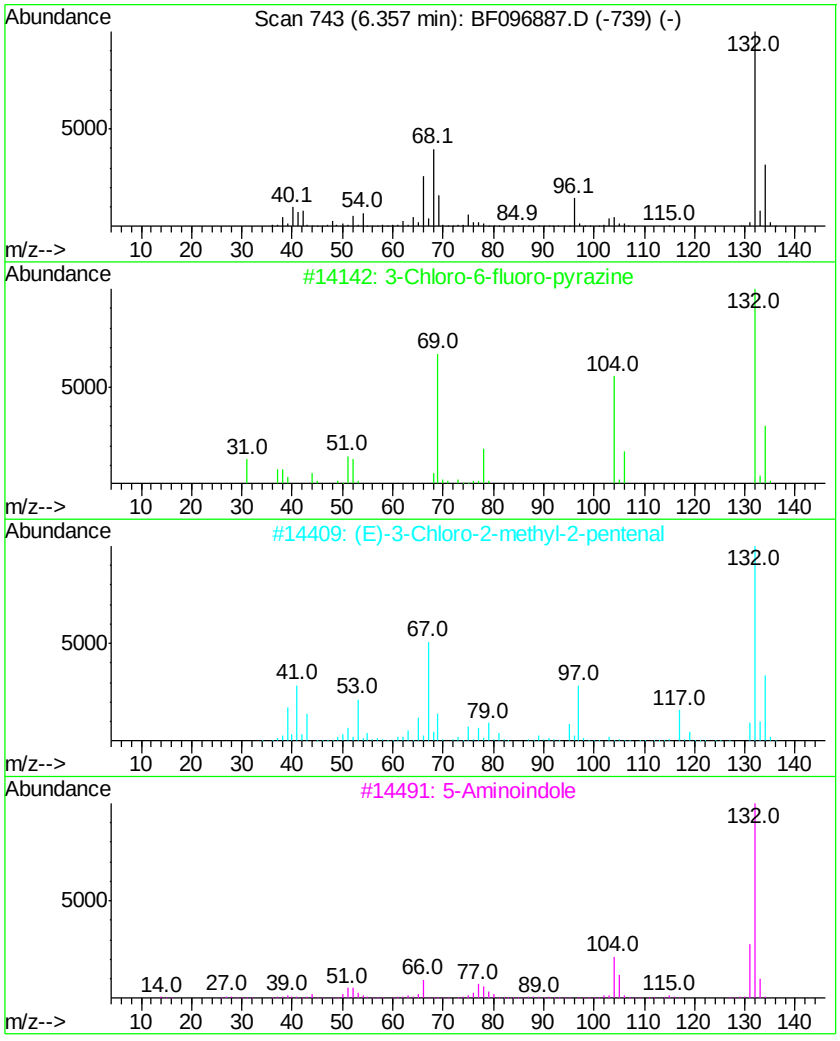
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

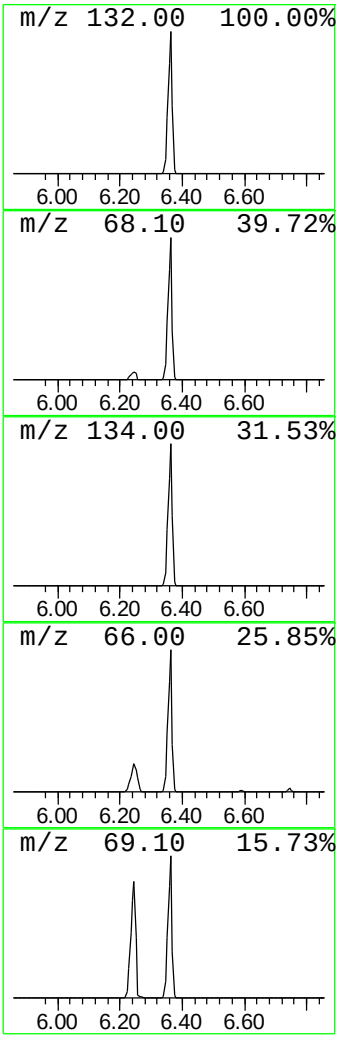
****

Peak Number 2 unknown6.36 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.36	83.12 ng	2581980	1,4-Dichlorobenzene-d4	6.59

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5	Imidazole, 4,5-dicyano-1-methyl-	132	C6H4N4	019485-35-9	9





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Instrument : BNA_F
ClientSampleId : TP-6-COMP-(0-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.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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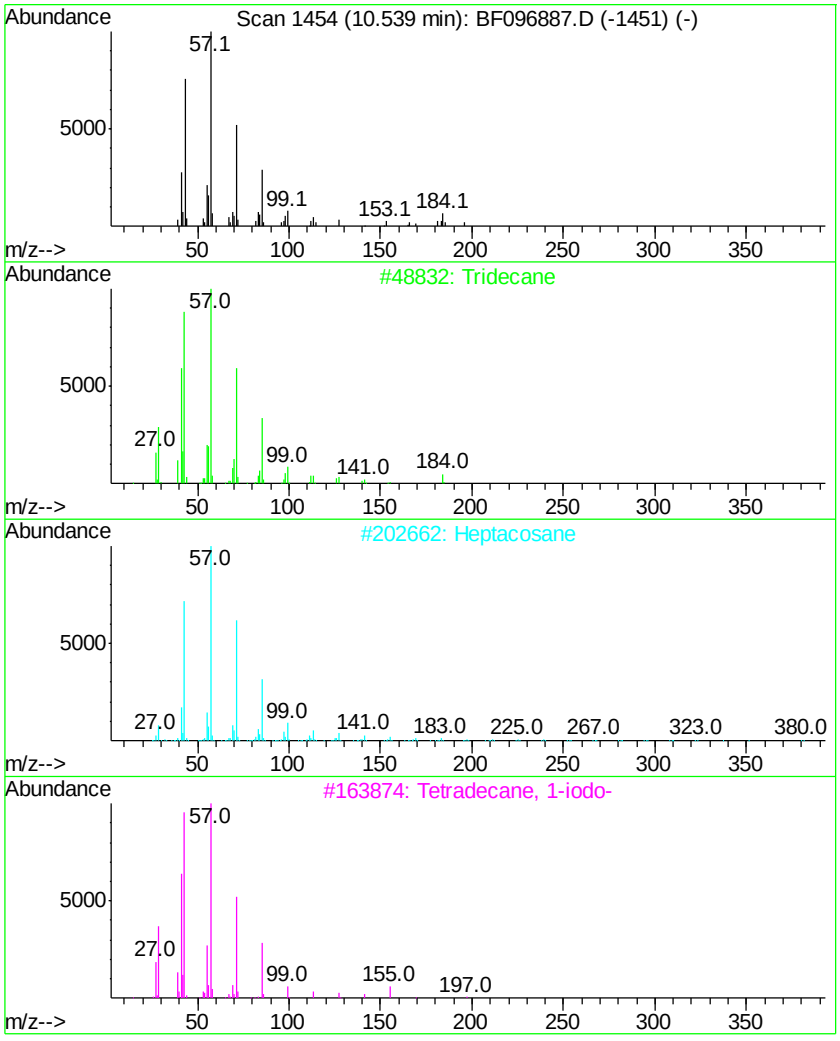
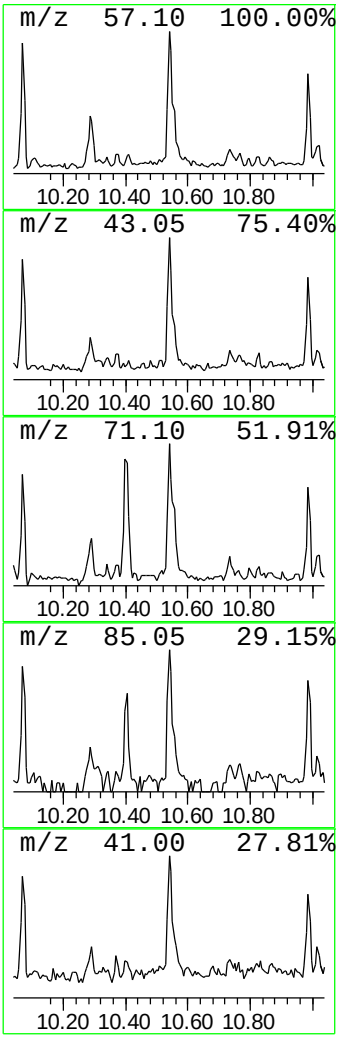
Peak Number 4 Tridecane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.54	2.66 ng	90611	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	91
2	Heptacosane	380	C27H56	000593-49-7	86
3	Tetradecane, 1-iodo-	324	C14H29I	019218-94-1	80
4	Hexadecane	226	C16H34	000544-76-3	80
5	Eicosane	282	C20H42	000112-95-8	72





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Data File : BF096887.D
Acq On : 19 Jul 2017 23:16
Operator : SJ/JU
Sample : I4276-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6-COMP-(0-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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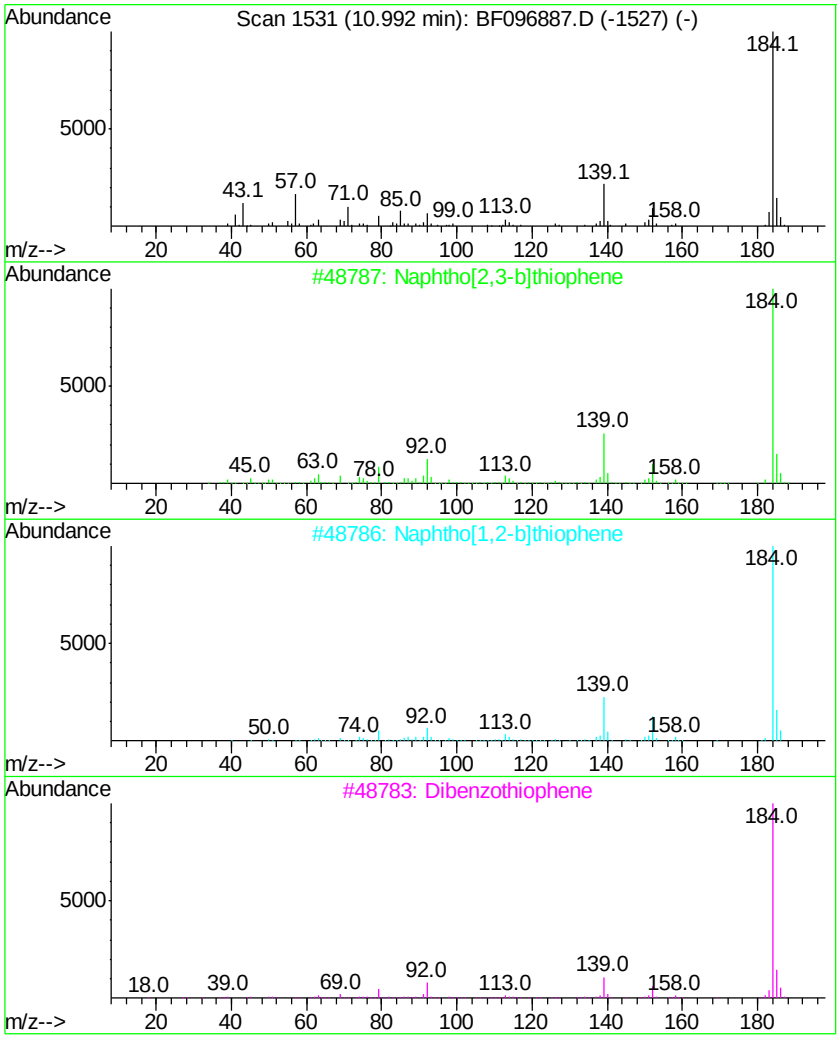
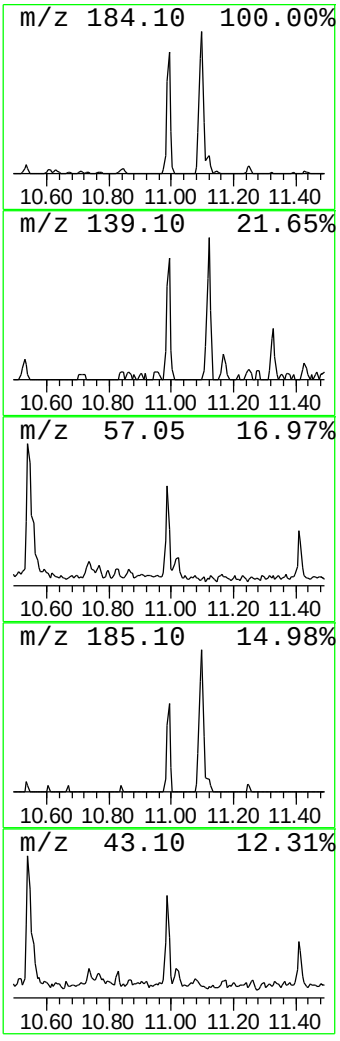
Peak Number 5 Naphtho[2,3-b]thiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.99	2.87 ng	97862	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
3	Dibenzothiophene	184	C12H8S	000132-65-0	94
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	81
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	62





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Data File : BF096887.D
Acq On : 19 Jul 2017 23:16
Operator : SJ/JU
Sample : I4276-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6-COMP-(0-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.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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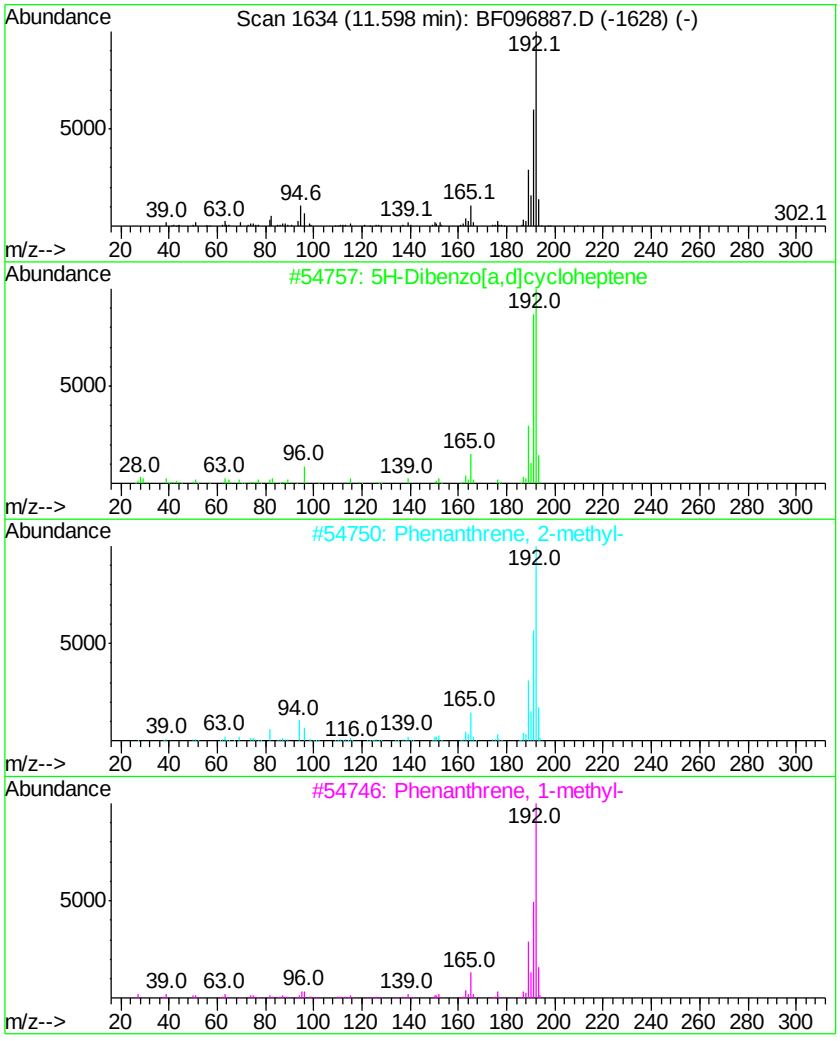
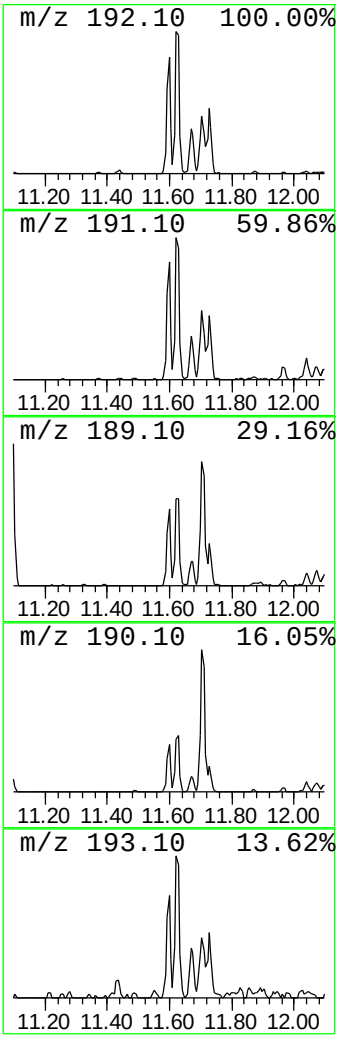
Peak Number 6 5H-Dibenzo[a,d]cycloheptene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.60	6.54 ng	222717	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
Data File : BF096887.D
Acq On : 19 Jul 2017 23:16
Operator : SJ/JU
Sample : I4276-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6-COMP-(0-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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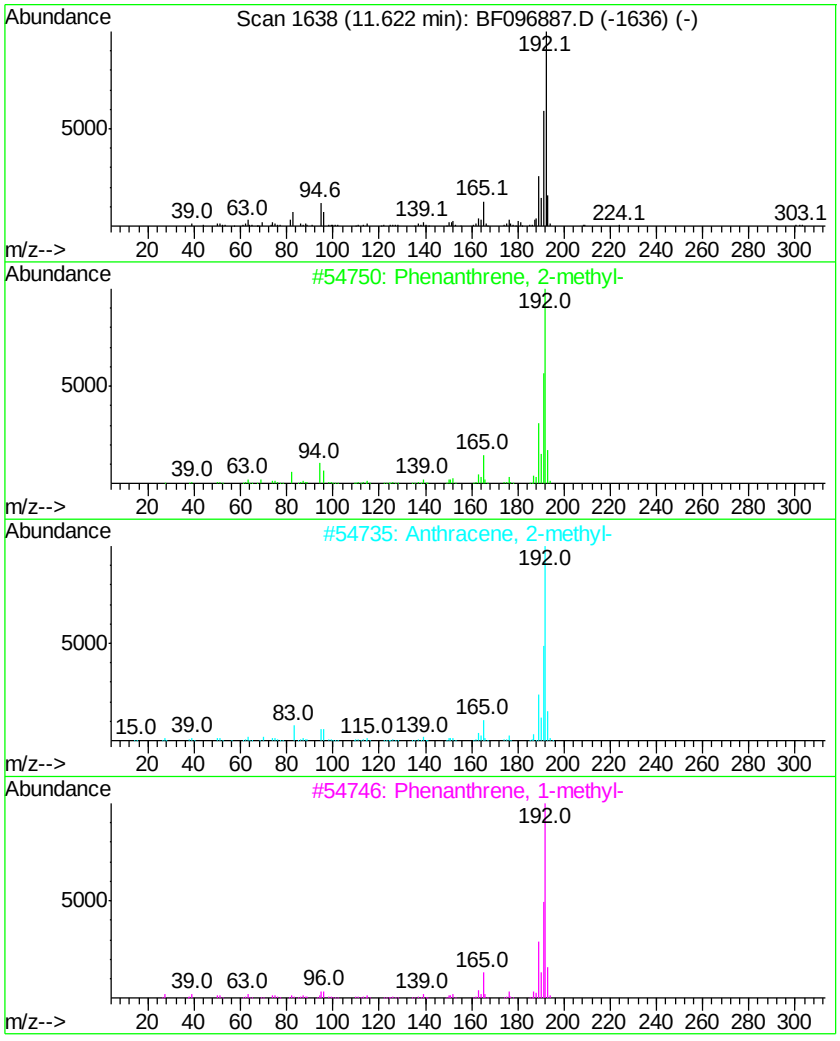
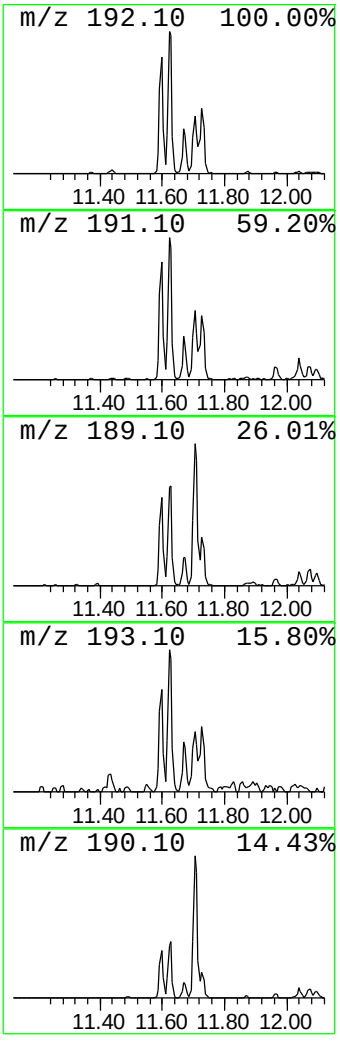
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.62	9.14 ng	311214	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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Operator : SJ/JU
Sample : I4276-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6-COMP-(0-8)

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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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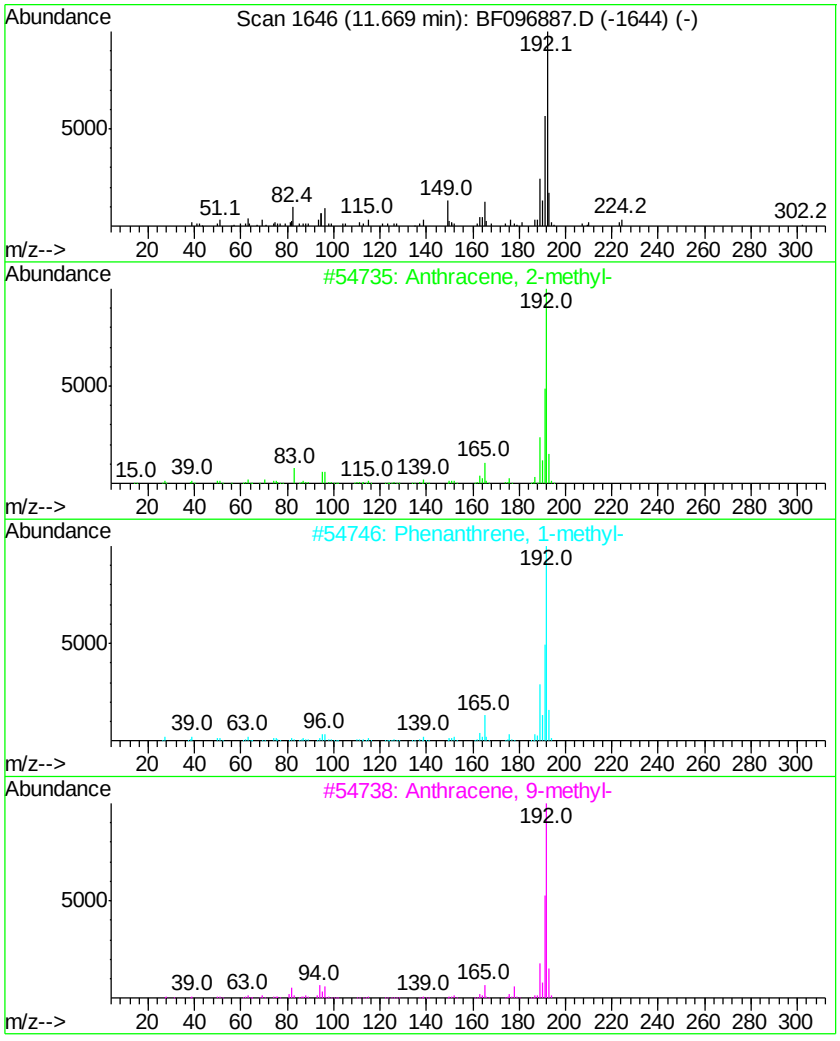
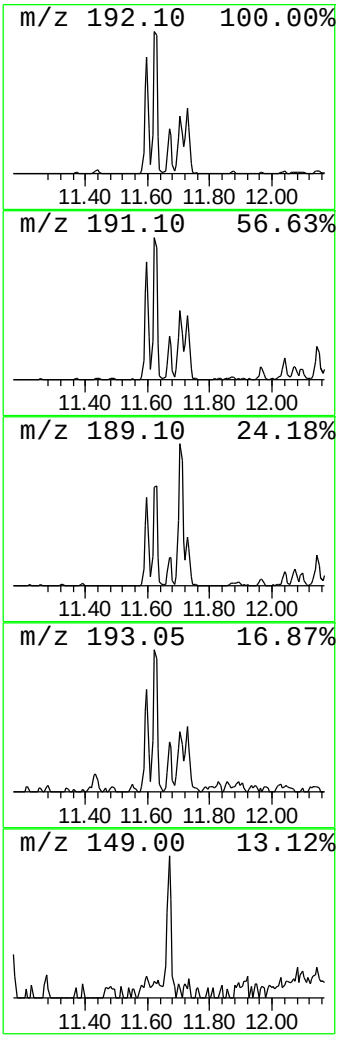
Peak Number 8 Anthracene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.67	2.77 ng	94374	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





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ClientSampleId : TP-6-COMP-(0-8)

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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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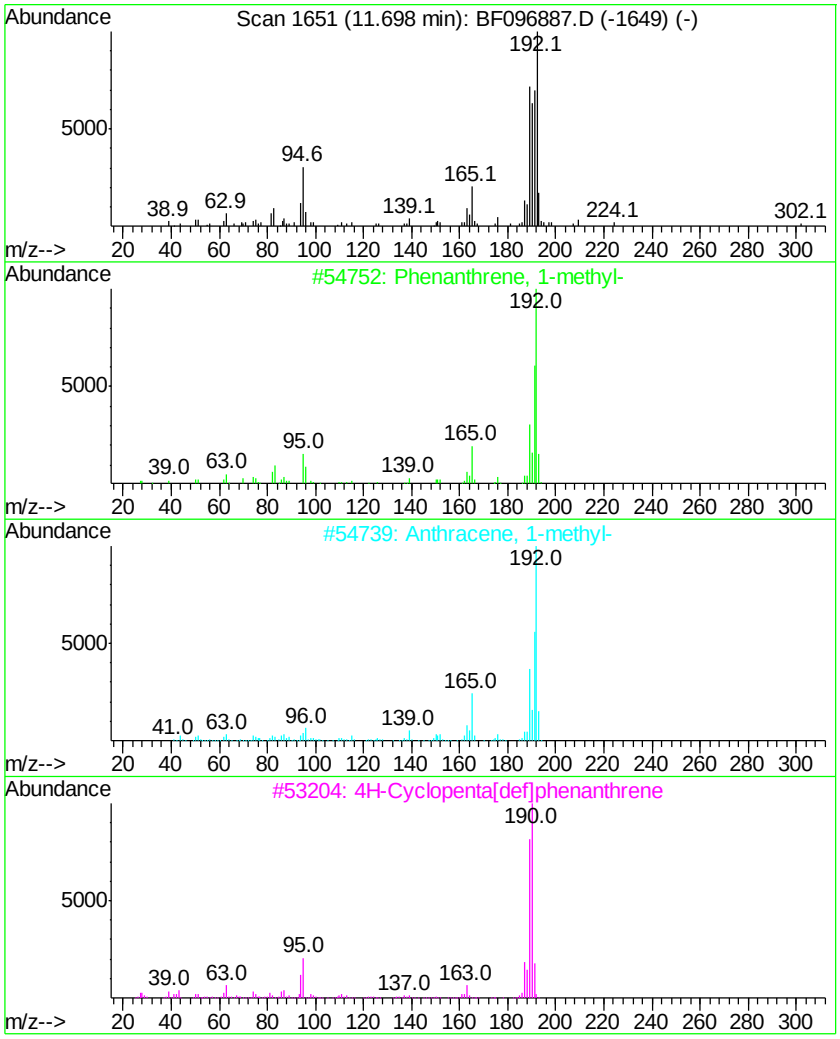
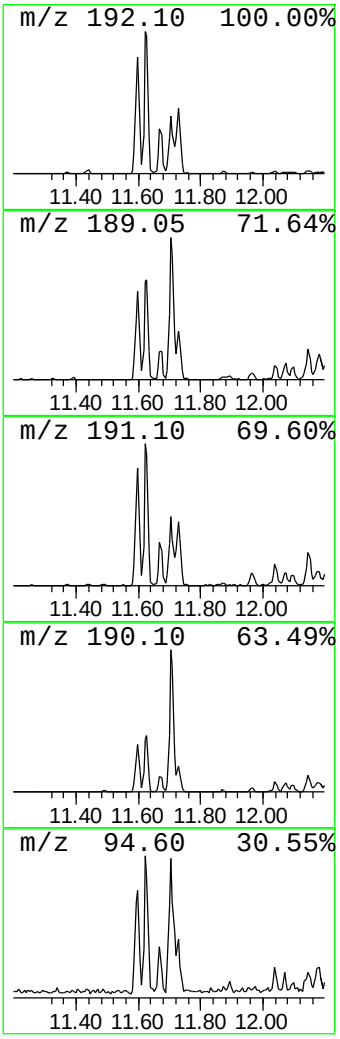
Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.70	7.39 ng	251662	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	80
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	70
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	50
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	46
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	42





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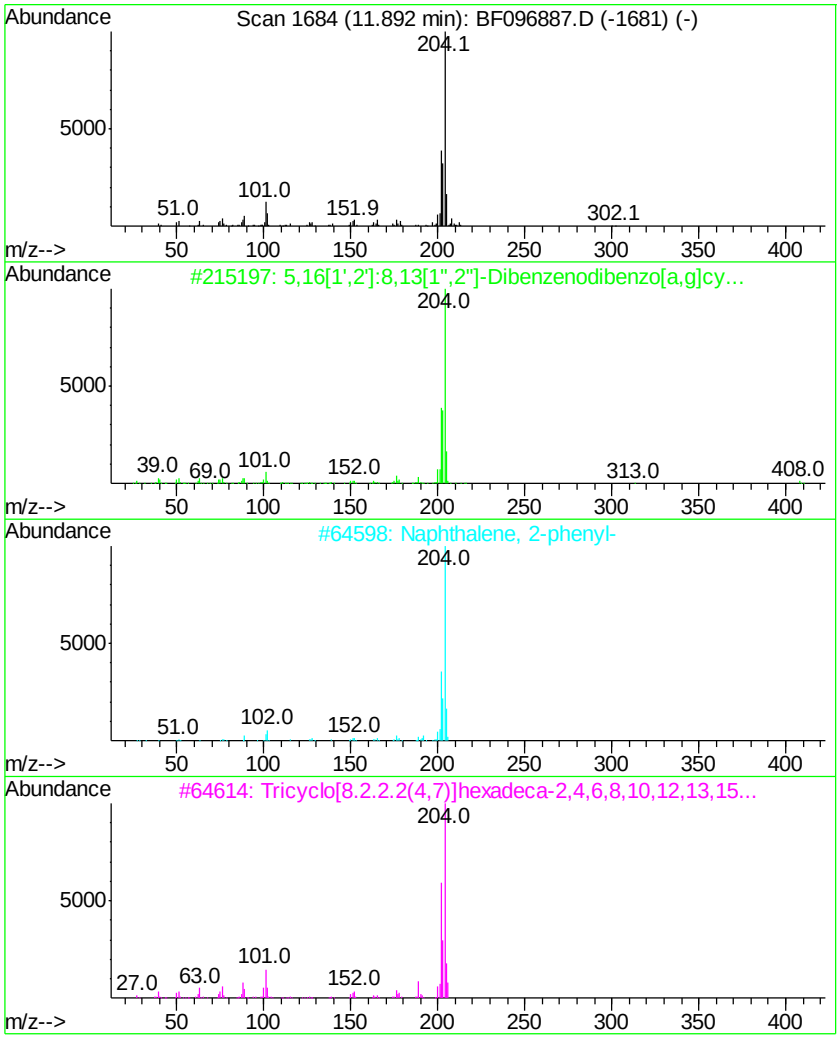
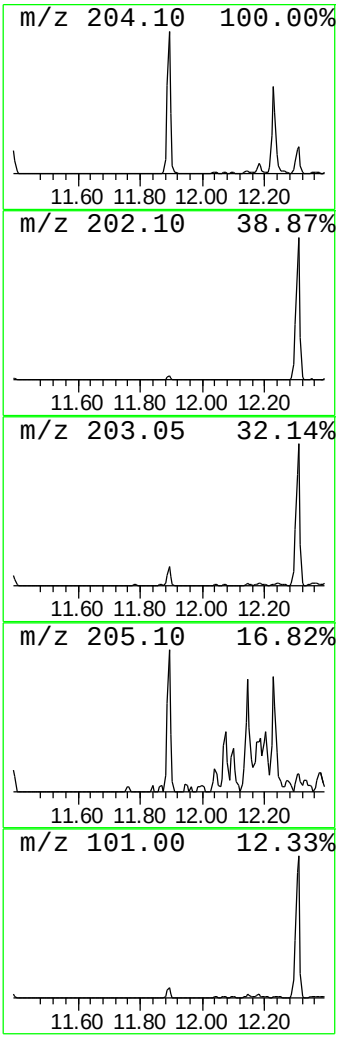
Peak Number 10 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	4.34 ng	147713	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
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	49
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	46





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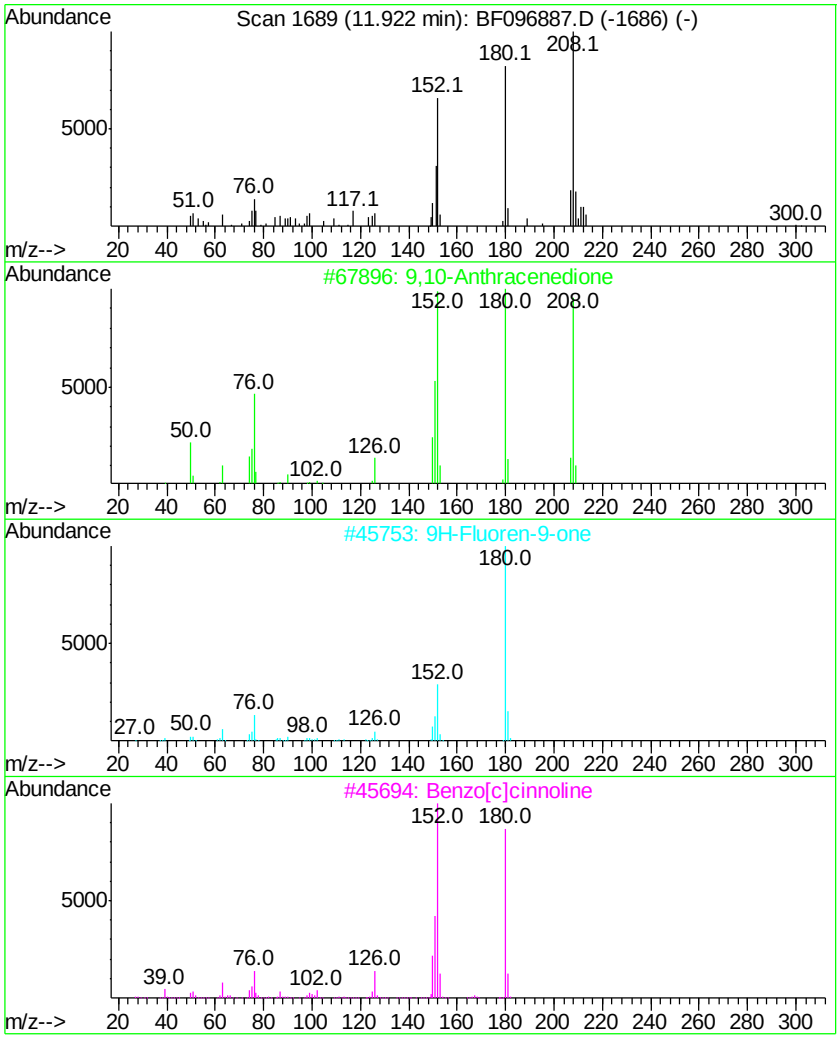
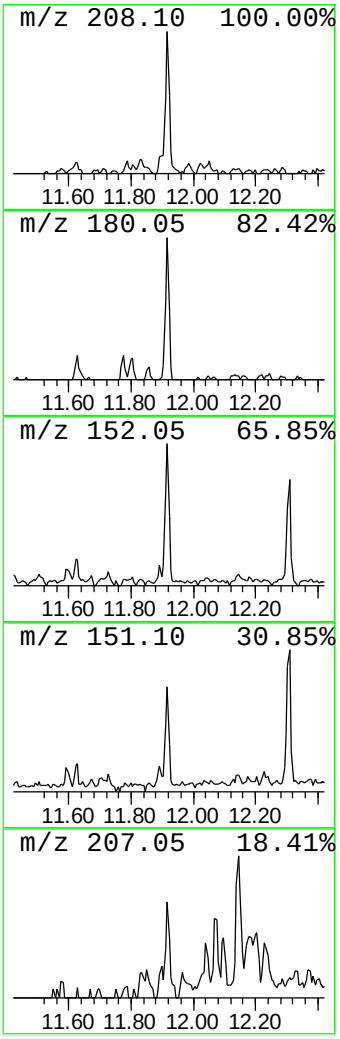
Peak Number 11 9,10-Anthracenedione Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	2.60 ng	88502	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	78
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	58
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	52
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	49





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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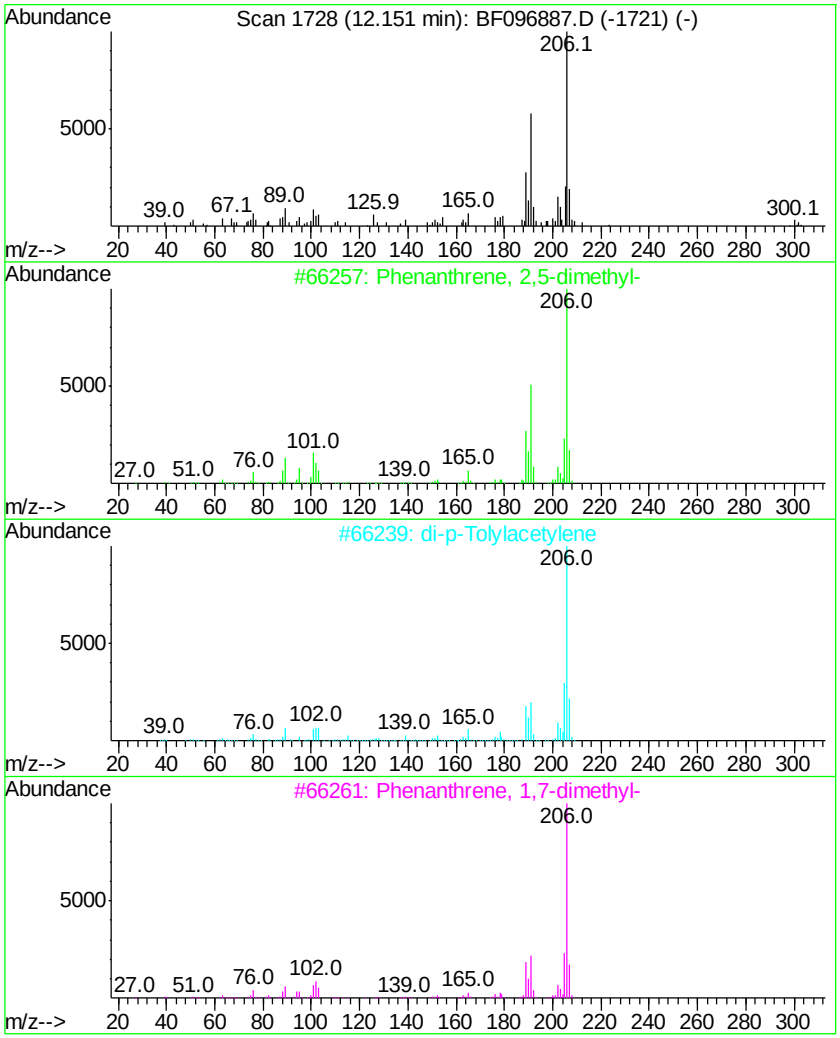
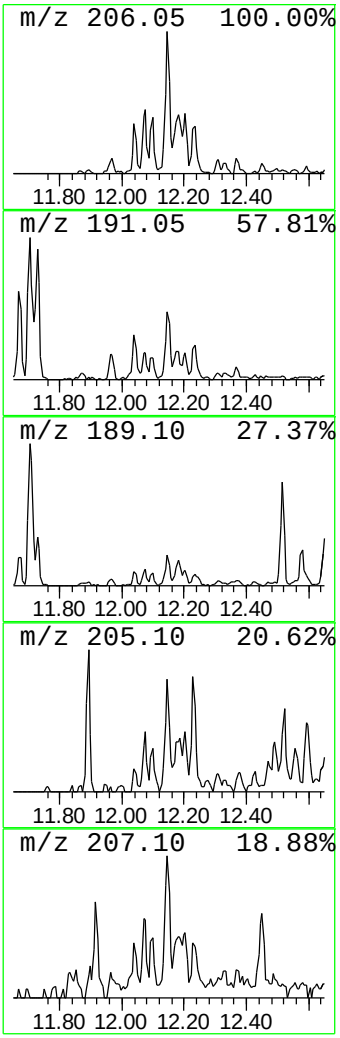
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	4.18 ng	142427	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	95
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91





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

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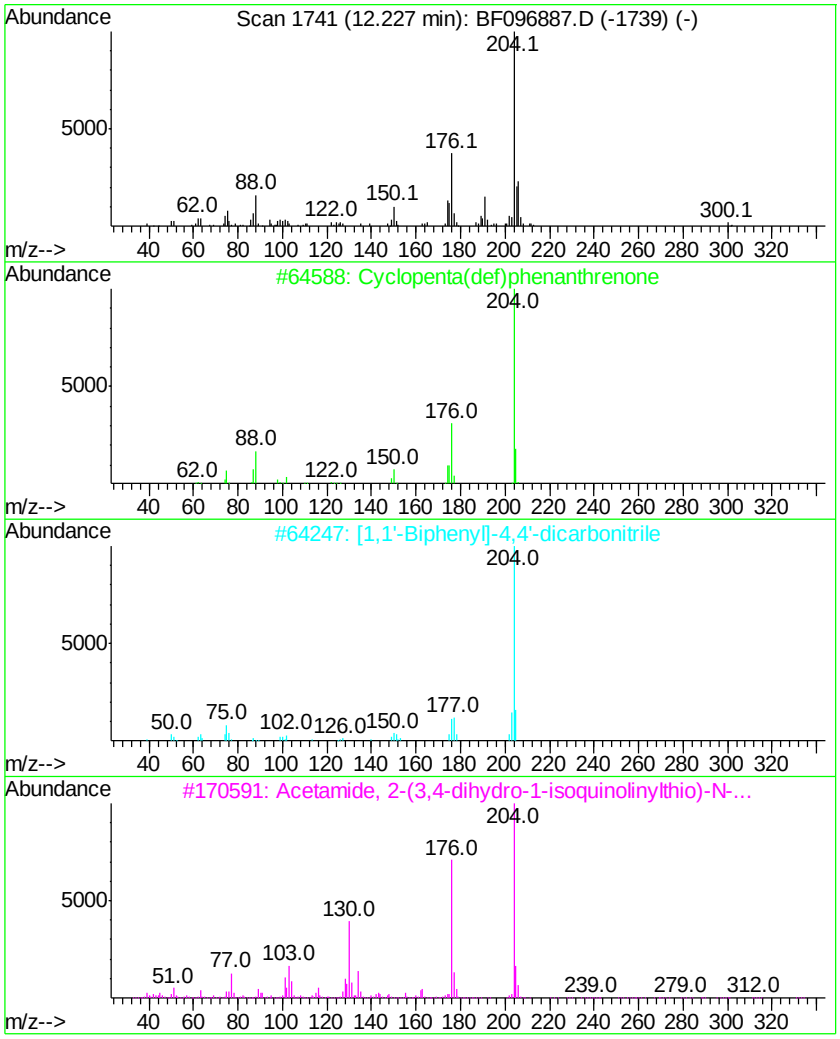
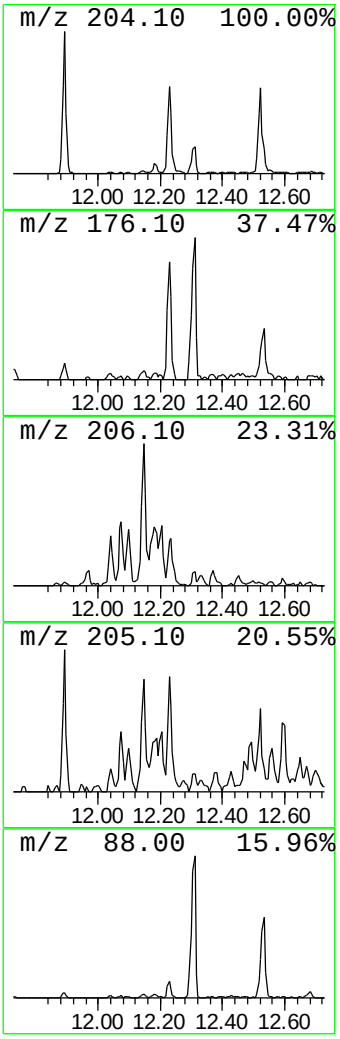
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.23	3.89 ng	132432	Phenanthrene-d10	11.10

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	53
3	Acetamide, 2-(3,4-dihydro-1-isoq...	332	C17H14F2N2OS	1000270-76-1	50
4	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	50
5	Mannose, 6-deoxy-2,3,4,5-tetraki...	452	C18H44O5Si4	019127-15-2	47





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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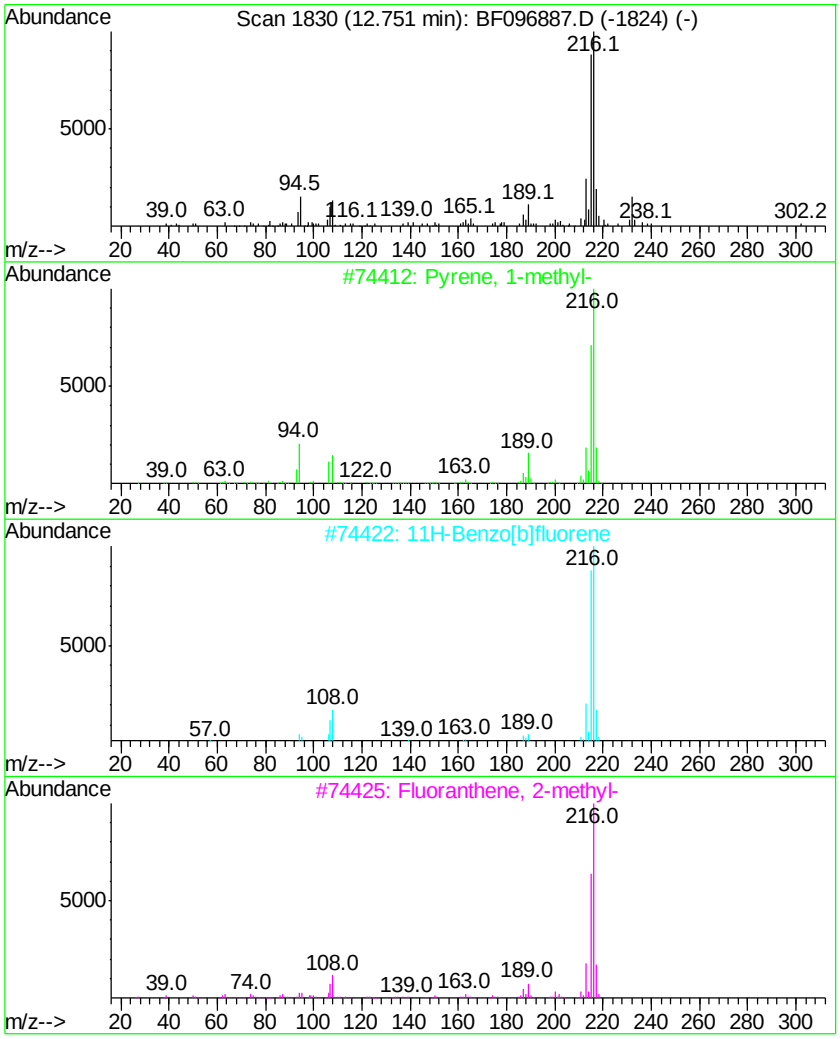
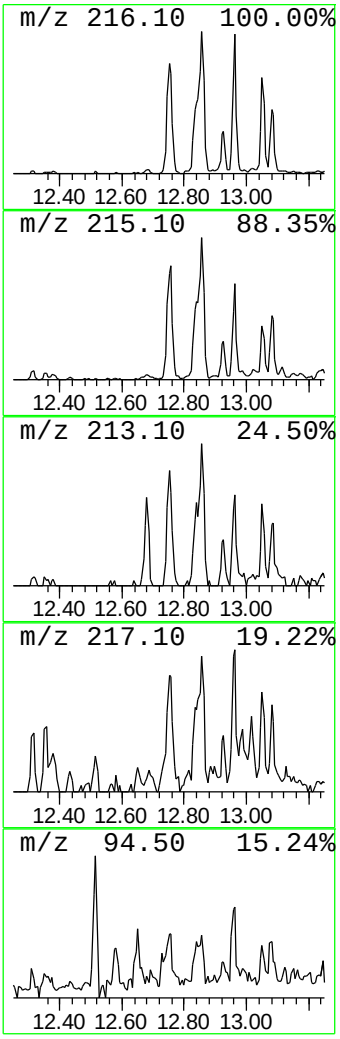
Peak Number 14 Pyrene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.75	2.97 ng	222310	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	92
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





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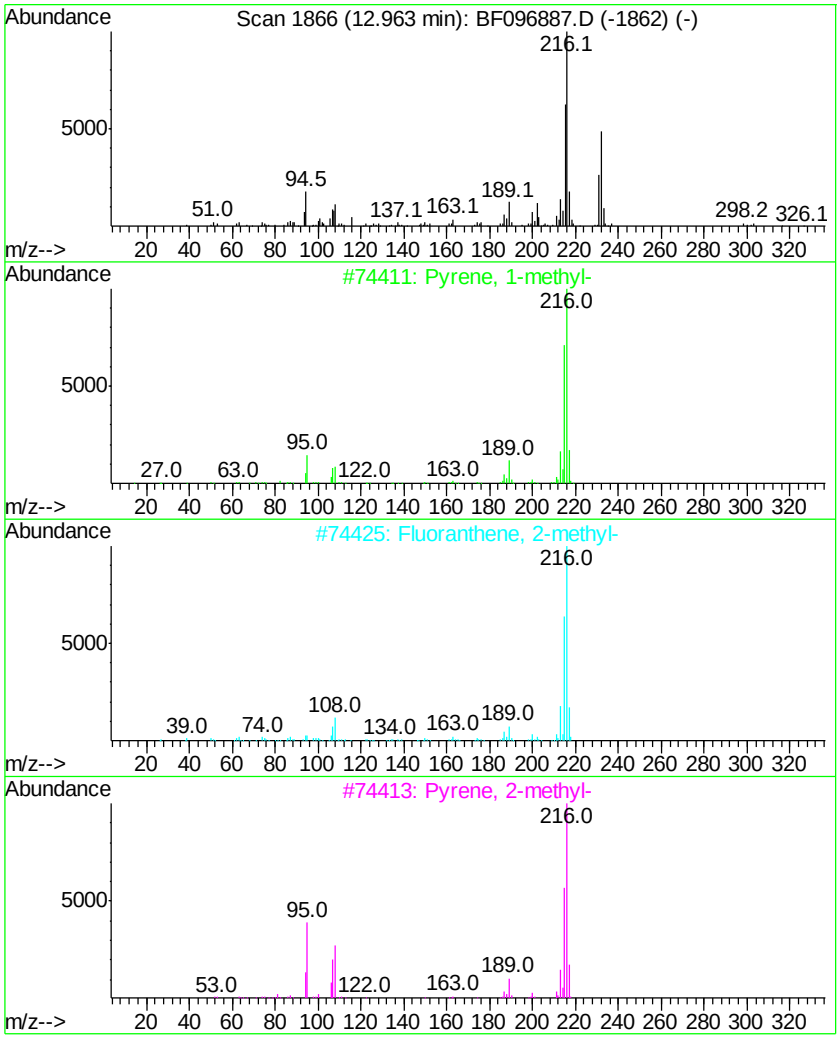
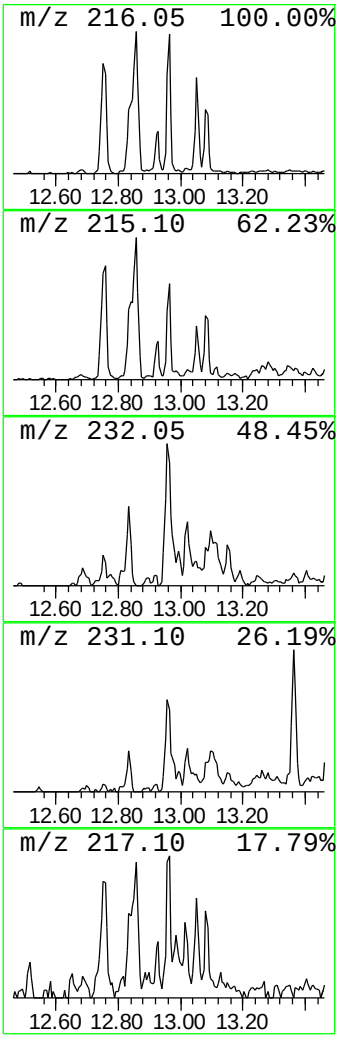
Peak Number 15 Pyrene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.96	2.77 ng	207497	Chrysene-d12	13.73

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	95
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	83
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	60
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	60





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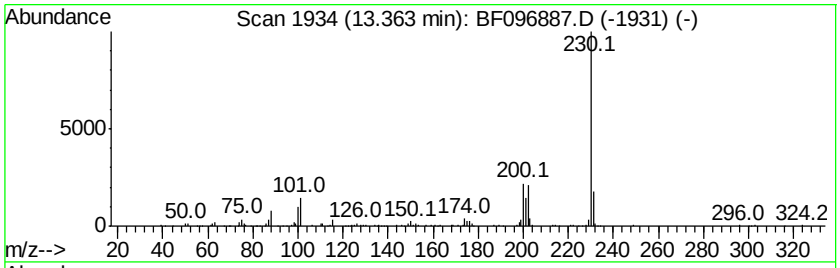
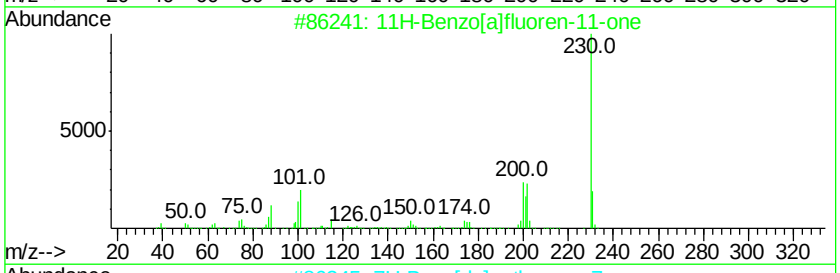
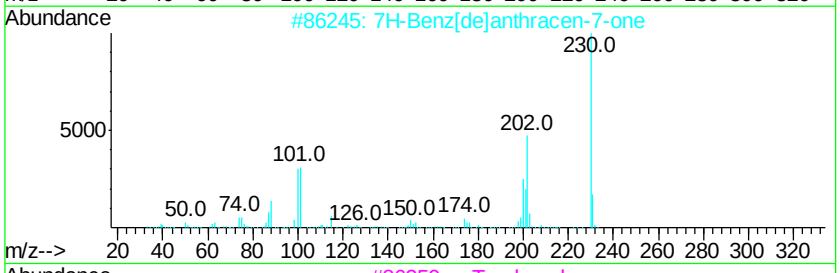
Peak Number 16 11H-Benzo[a]fluoren-11-one Concentration Rank 15

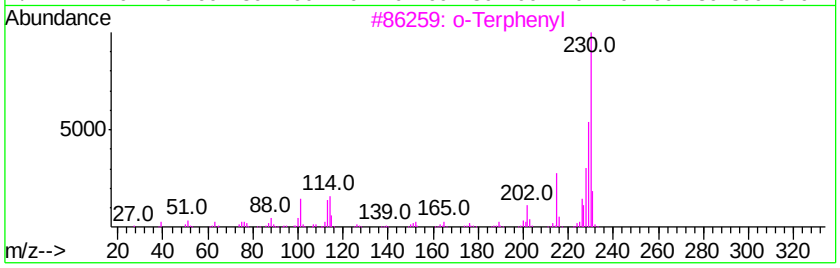
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.36	2.80 ng	209663	Chrysene-d12	13.73

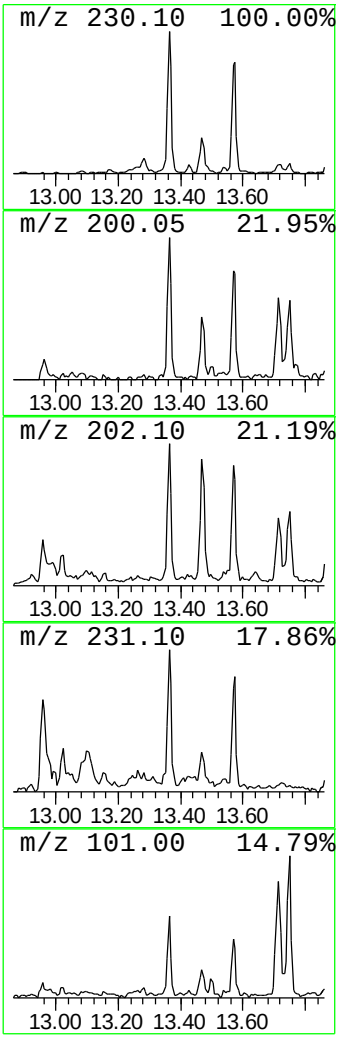
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	94
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3	o-Terphenyl	230	C18H14	000084-15-1	58
4	2-Chloro-9-xanthenone	230	C13H7ClO2	013210-15-6	53
5	Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	53











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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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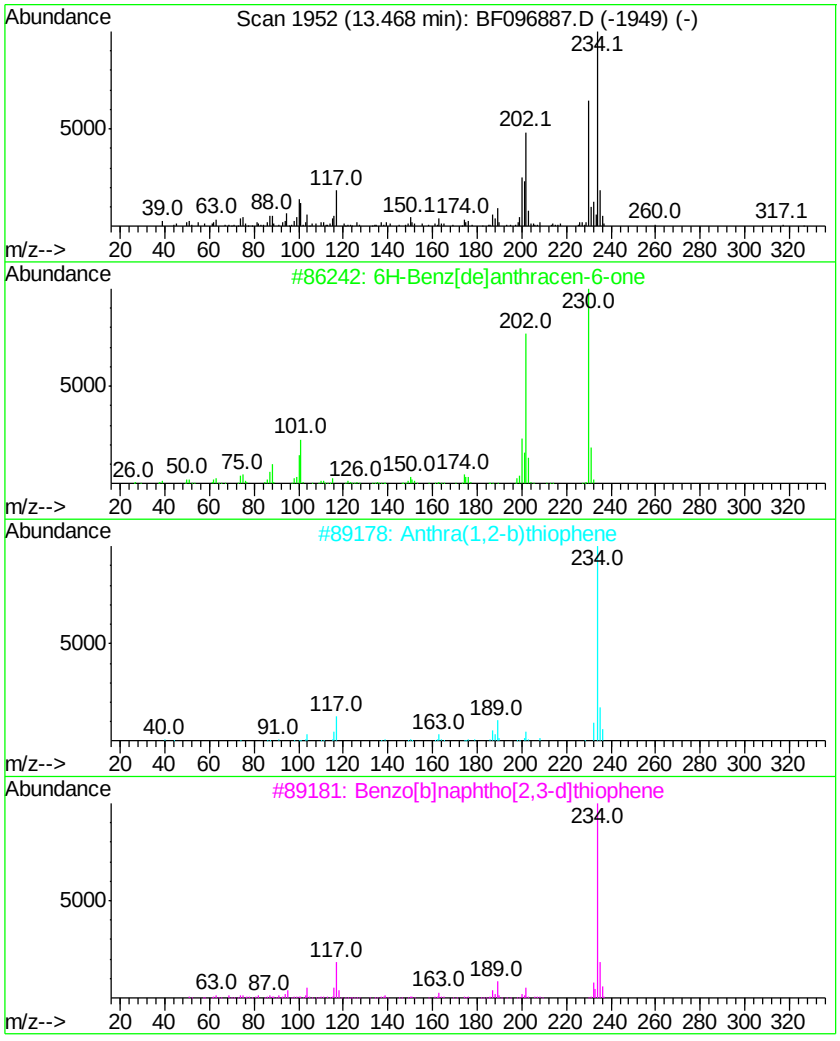
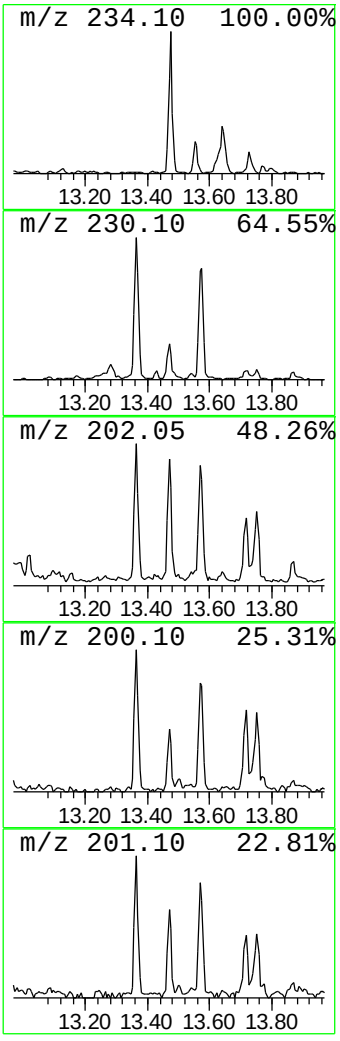
Peak Number 17 6H-Benz[de]anthracen-6-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.47	2.68 ng	200574	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	94
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	89
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	86
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	86
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	46





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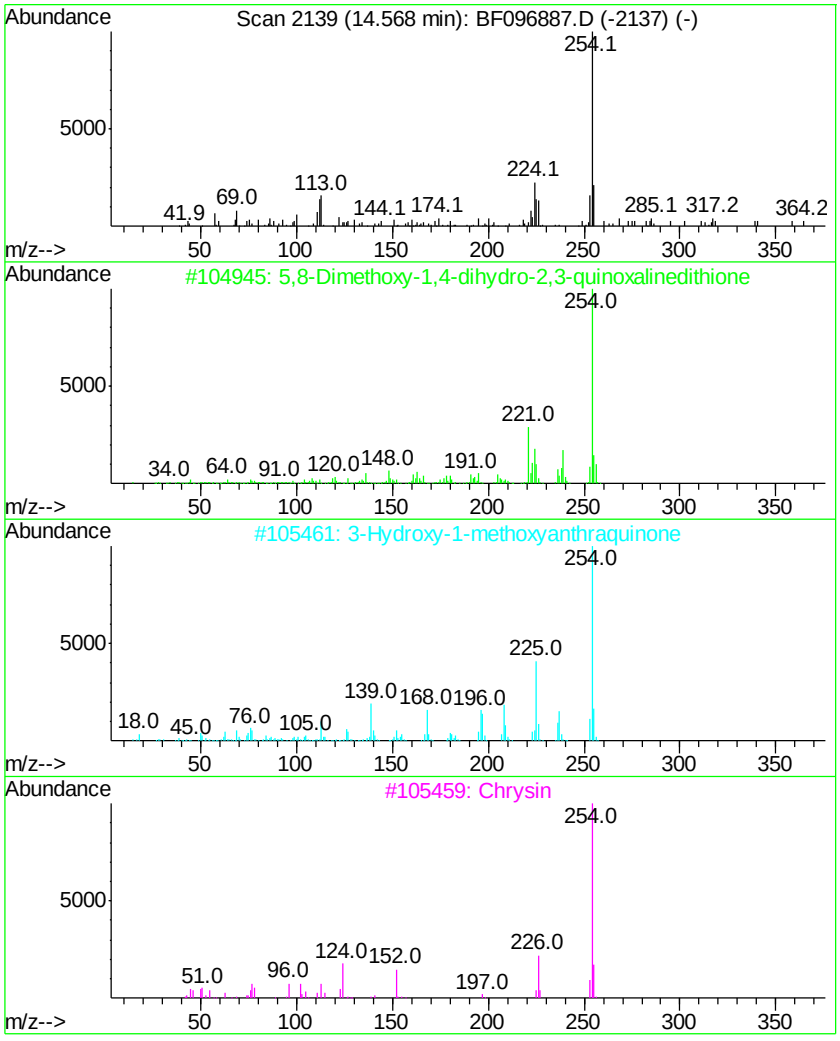
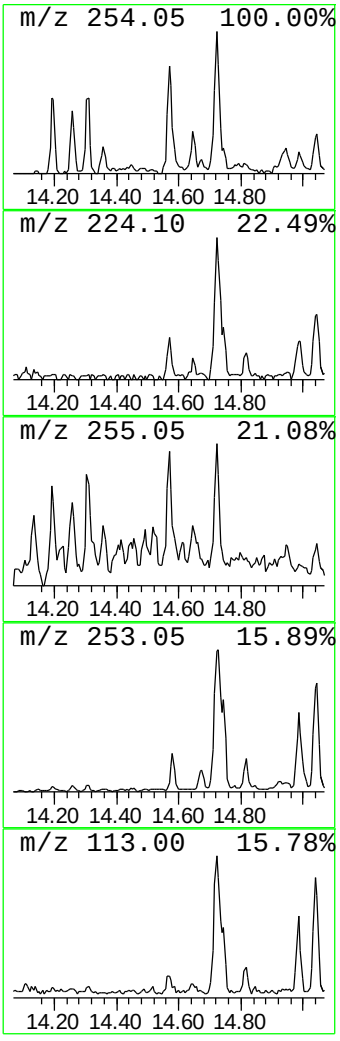
Peak Number 18 5,8-Dimethoxy-1,4-dihydro-2... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.57	4.57 ng	96270	Perylene-d12	15.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,8-Dimethoxy-1,4-dihydro-2,3-qu...	254	C10H10N2O2S2	001790-96-1	64
2	3-Hydroxy-1-methoxyanthraquinone	254	C15H10O4	028504-24-7	59
3	Chrysin	254	C15H10O4	000480-40-0	53
4	Phenanthrene, 2-phenyl-	254	C20H14	004325-77-3	50
5	Benzo[a]pyrene, 4,5-dihydro-	254	C20H14	057652-66-1	47





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071917\
Data File : BF096887.D
Acq On : 19 Jul 2017 23:16
Operator : SJ/JU
Sample : I4276-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6-COMP-(0-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.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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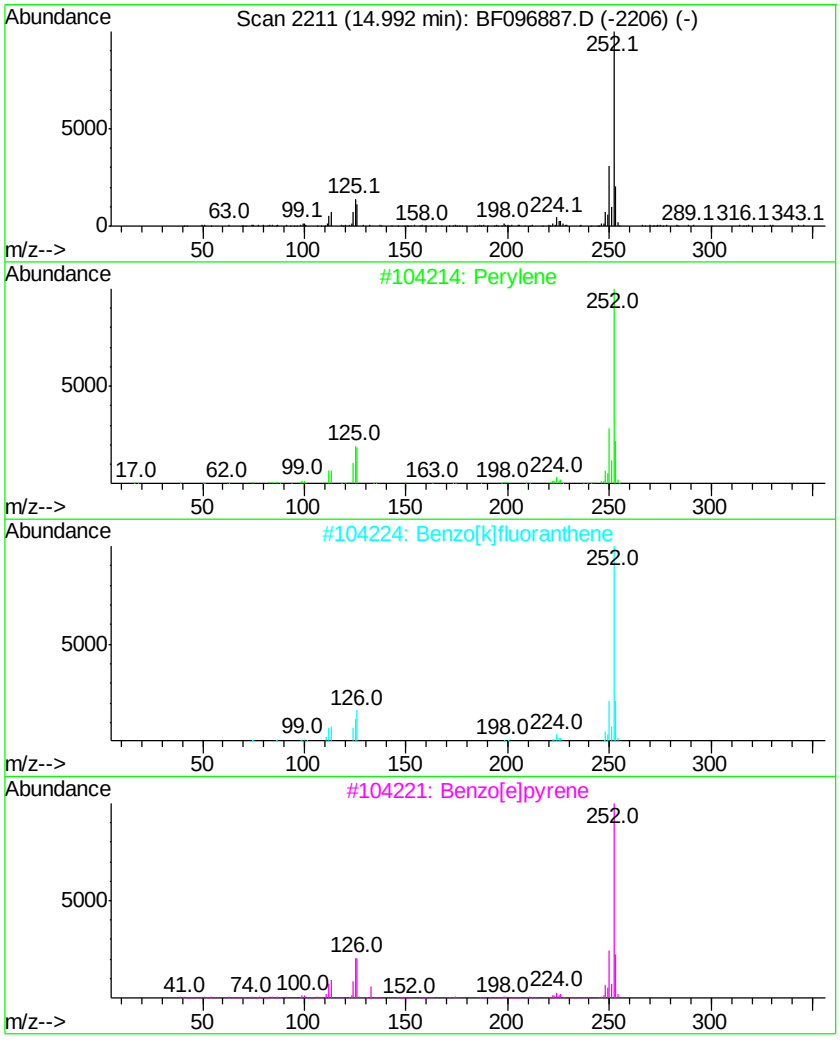
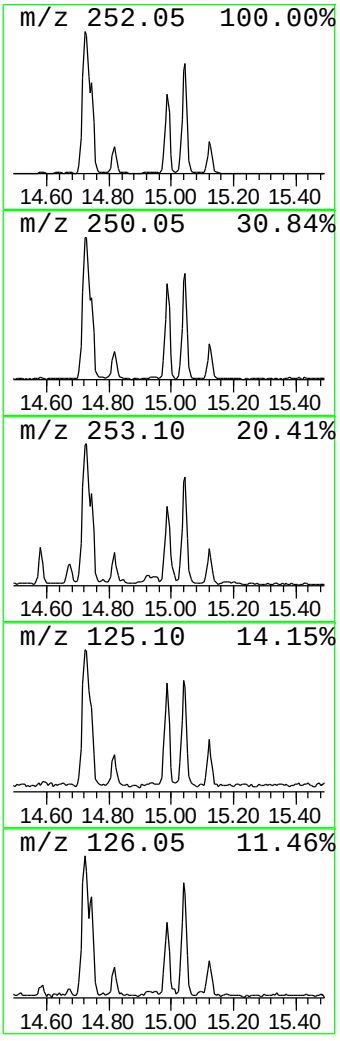
Peak Number 20 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.99	15.64 ng	329669	Perylene-d12	15.10

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





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071917\
Data File : BF096887.D
Acq On : 19 Jul 2017 23:16
Operator : SJ/JU
Sample : I4276-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-6-COMP-(0-8)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-hy...	4.76	11.6	ng	359824	1	6.59	621250	20.0
unknown6.36	6.36	83.1	ng	2581980	1	6.59	621250	20.0
Tridecane	10.54	2.7	ng	90611	4	11.10	681125	20.0
Naphtho[2,3-b]thi...	10.99	2.9	ng	97862	4	11.10	681125	20.0
5H-Dibenzo[a,d]cy...	11.60	6.5	ng	222717	4	11.10	681125	20.0
Phenanthrene, 2-m...	11.62	9.1	ng	311214	4	11.10	681125	20.0
Anthracene, 2-met...	11.67	2.8	ng	94374	4	11.10	681125	20.0
Phenanthrene, 1-m...	11.70	7.4	ng	251662	4	11.10	681125	20.0
5,16[1',2']:8,13[...	11.89	4.3	ng	147713	4	11.10	681125	20.0
9,10-Anthracenedione	11.92	2.6	ng	88502	4	11.10	681125	20.0
Phenanthrene, 2,5...	12.15	4.2	ng	142427	4	11.10	681125	20.0
Cyclopenta(def)ph...	12.23	3.9	ng	132432	4	11.10	681125	20.0
Pyrene, 1-methyl-	12.75	3.0	ng	222310	5	13.73	1496340	20.0
Pyrene, 2-methyl-	12.96	2.8	ng	207497	5	13.73	1496340	20.0
11H-Benzo[a]fluor...	13.36	2.8	ng	209663	5	13.73	1496340	20.0
6H-Benz[de]anthra...	13.47	2.7	ng	200574	5	13.73	1496340	20.0
5,8-Dimethoxy-1,4...	14.57	4.6	ng	96270	6	15.10	421536	20.0
Perylene	14.99	15.6	ng	329669	6	15.10	421536	20.0