LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116858.D
Acq On : 6 Sep 2019 13:33
Operator : HP/JU
Sample : K4650-09
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-5

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-BF083019.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	2.122	3	6	15	rVB	462997	559861	20.79%	1.381%
2	5.475	570	576	579	rBV	2166426	2181623	81.03%	5.382%
3	6.486	742	748	760	rBV	2319914	2464492	91.53%	6.080%
4	6.622	766	771	774	rBV	2651230	2439018	90.59%	6.017%
5	6.845	806	809	818	rBV	572228	454492	16.88%	1.121%
6	7.004	832	836	839	rBV	2135244	1818419	67.54%	4.486%
7	7.410	899	905	908	rBV	1431598	1487523	55.25%	3.670%
8	8.127	1023	1027	1030	rBV	660817	578738	21.50%	1.428%
9	9.204	1205	1210	1213	rBV	2960791	2669444	99.15%	6.586%
10	9.586	1272	1275	1285	rVB	350726	325218	12.08%	0.802%
11	9.880	1321	1325	1328	rBV	813690	680918	25.29%	1.680%
12	9.910	1328	1330	1334	rVB	145608	114358	4.25%	0.282%
13	10.086	1356	1360	1364	rVB	58877	56747	2.11%	0.140%
14	10.427	1414	1418	1424	rBB	96274	85610	3.18%	0.211%
15	10.669	1454	1459	1462	rBV	1768823	1637597	60.82%	4.040%
16	11.168	1541	1544	1548	rVB	90873	76542	2.84%	0.189%
17	11.257	1557	1559	1564	rVB	86282	73583	2.73%	0.182%
18	11.363	1573	1577	1579	rBV	793311	706999	26.26%	1.744%
19	11.392	1579	1582	1585	rVV	1723773	1501794	55.78%	3.705%
20	11.439	1585	1590	1593	rVB	302157	274704	10.20%	0.678%
21	11.592	1610	1616	1619	rBV	195498	200648	7.45%	0.495%
22	11.863	1657	1662	1664	rBV	116607	100886	3.75%	0.249%
23	11.892	1664	1667	1672	rVV2	255522	265551	9.86%	0.655%
24	11.939	1672	1675	1678	rVV	45105	41580	1.54%	0.103%
25	11.974	1678	1681	1684	rVV	220913	238445	8.86%	0.588%
26	11.998	1684	1685	1690	rVB	73227	45158	1.68%	0.111%
27	12.157	1709	1712	1714	rBV	111603	95010	3.53%	0.234%
28	12.180	1714	1716	1720	rVB	231884	183835	6.83%	0.454%
29	12.415	1752	1756	1759	rBV2	40107	48641	1.81%	0.120%
30	12.498	1767	1770	1775	rVB	102941	96655	3.59%	0.238%
31	12.580	1779	1784	1787	rVV	2399158	2293153	85.17%	5.657%
32	12.633	1787	1793	1796	rVV2	39218	53639	1.99%	0.132%
33	12.668	1796	1799	1802	rVV2	45763	44879	1.67%	0.111%
34	12.727	1806	1809	1813	rVV	76188	95300	3.54%	0.235%

LSC Area Percent Report

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Operator : HP/JU
Sample : K4650-09
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-5

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-BF083019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.810	1816	1823	1826	rVV	2046693	2282139	84.76%	5.630%
36	12.851	1827	1830	1835	rVB	68954	69364	2.58%	0.171%
37	12.951	1842	1847	1852	rVB	2583316	2692419	100.00%	6.642%
38	13.027	1854	1860	1862	rBV3	75574	137054	5.09%	0.338%
39	13.051	1862	1864	1867	rVB	57809	43915	1.63%	0.108%
40	13.110	1867	1874	1875	rBV4	69238	100805	3.74%	0.249%
41	13.127	1875	1877	1880	rVB	141852	133164	4.95%	0.329%
42	13.198	1886	1889	1891	rVB	72406	65313	2.43%	0.161%
43	13.233	1891	1895	1897	rBV2	123327	128632	4.78%	0.317%
44	13.257	1897	1899	1902	rVB	44332	41659	1.55%	0.103%
45	13.292	1902	1905	1908	rBV	34396	32591	1.21%	0.080%
46	13.327	1908	1911	1914	rBV	50232	45369	1.69%	0.112%
47	13.357	1914	1916	1919	rVV2	54694	51767	1.92%	0.128%
48	13.433	1926	1929	1933	rVB4	17591	28756	1.07%	0.071%
49	13.515	1938	1943	1952	rBV10	60110	130459	4.85%	0.322%
50	13.633	1960	1963	1967	rVB	157699	150928	5.61%	0.372%
51	13.745	1976	1982	1985	rBV2	161468	212445	7.89%	0.524%
52	13.774	1985	1987	1989	rVV	156105	126698	4.71%	0.313%
53	13.798	1989	1991	1995	rVV2	143380	203670	7.56%	0.502%
54	13.839	1995	1998	2005	rVV3	463182	603309	22.41%	1.488%
55	13.915	2006	2011	2014	rVB	46790	55599	2.07%	0.137%
56	13.992	2017	2024	2028	rVV3	1068853	1683898	62.54%	4.154%
57	14.027	2028	2030	2035	rVB	858137	702285	26.08%	1.733%
58	14.104	2040	2043	2047	rVV	178388	157082	5.83%	0.388%
59	14.156	2047	2052	2055	rVV4	79613	120571	4.48%	0.297%
60	14.186	2055	2057	2059	rVB2	62562	52023	1.93%	0.128%
61	14.215	2059	2062	2066	rBV2	105263	122623	4.55%	0.303%
62	14.257	2066	2069	2072	rVB2	33073	30226	1.12%	0.075%
63	14.327	2076	2081	2082	rBV4	30666	42196	1.57%	0.104%
64	14.380	2087	2090	2093	rVV	100414	122912	4.57%	0.303%
65	14.421	2093	2097	2100	rVV3	72577	90661	3.37%	0.224%
66	14.462	2100	2104	2109	rVV4	108401	177828	6.60%	0.439%
67	14.509	2109	2112	2114	rVV	82124	88711	3.29%	0.219%
68	14.527	2114	2115	2119	rVV2	64337	60171	2.23%	0.148%
69	14.580	2119	2124	2129	rVB5	50575	85833	3.19%	0.212%
70	14.686	2139	2142	2146	rBV4	44109	60986	2.27%	0.150%
71	14.768	2152	2156	2159	rBV	103177	98876	3.67%	0.244%

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Operator : HP/JU
Sample : K4650-09
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-5

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-BF083019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.845	2166	2169	2170	rBV2	33556	32129	1.19%	0.079%
73	14.874	2170	2174	2182	rVB3	52421	92815	3.45%	0.229%
74	14.945	2182	2186	2188	rBV4	28833	38860	1.44%	0.096%
75	14.974	2189	2191	2196	rVB	37363	39470	1.47%	0.097%
76	15.039	2196	2202	2205	rBV	672793	1054666	39.17%	2.602%
77	15.104	2209	2213	2216	rVV3	89436	107944	4.01%	0.266%
78	15.139	2216	2219	2224	rVB	106771	114798	4.26%	0.283%
79	15.227	2230	2234	2236	rBV3	54730	81316	3.02%	0.201%
80	15.286	2242	2244	2247	rVB2	32018	31379	1.17%	0.077%
81	15.339	2247	2253	2258	rVB	403623	557532	20.71%	1.375%
82	15.398	2258	2263	2268	rVB	570831	677865	25.18%	1.672%
83	15.462	2268	2274	2276	rBV	400213	547727	20.34%	1.351%
84	15.486	2276	2278	2286	rVB	192182	260563	9.68%	0.643%
85	15.909	2344	2350	2354	rBV5	50114	89024	3.31%	0.220%
86	15.968	2356	2360	2365	rVV8	38852	87182	3.24%	0.215%
87	16.015	2366	2368	2373	rVB3	35639	39347	1.46%	0.097%
88	16.409	2431	2435	2440	rVB4	25340	42341	1.57%	0.104%
89	16.574	2460	2463	2467	rVB6	28350	37666	1.40%	0.093%
90	16.727	2481	2489	2490	rBV4	34151	71155	2.64%	0.176%
91	16.750	2491	2493	2500	rVB2	43426	67225	2.50%	0.166%
92	16.915	2515	2521	2529	rVB2	282978	548330	20.37%	1.353%
93	16.986	2529	2533	2540	rVB3	34452	67633	2.51%	0.167%
94	17.086	2544	2550	2555	rBV	47868	107368	3.99%	0.265%
95	17.139	2555	2559	2564	rBV2	36017	66691	2.48%	0.165%
96	17.356	2589	2596	2611	rVB	216764	484775	18.01%	1.196%
97	17.586	2628	2635	2643	rBV2	47152	104191	3.87%	0.257%
98	18.509	2785	2792	2798	rBV2	21302	60186	2.24%	0.148%

Sum of corrected areas: 40534175

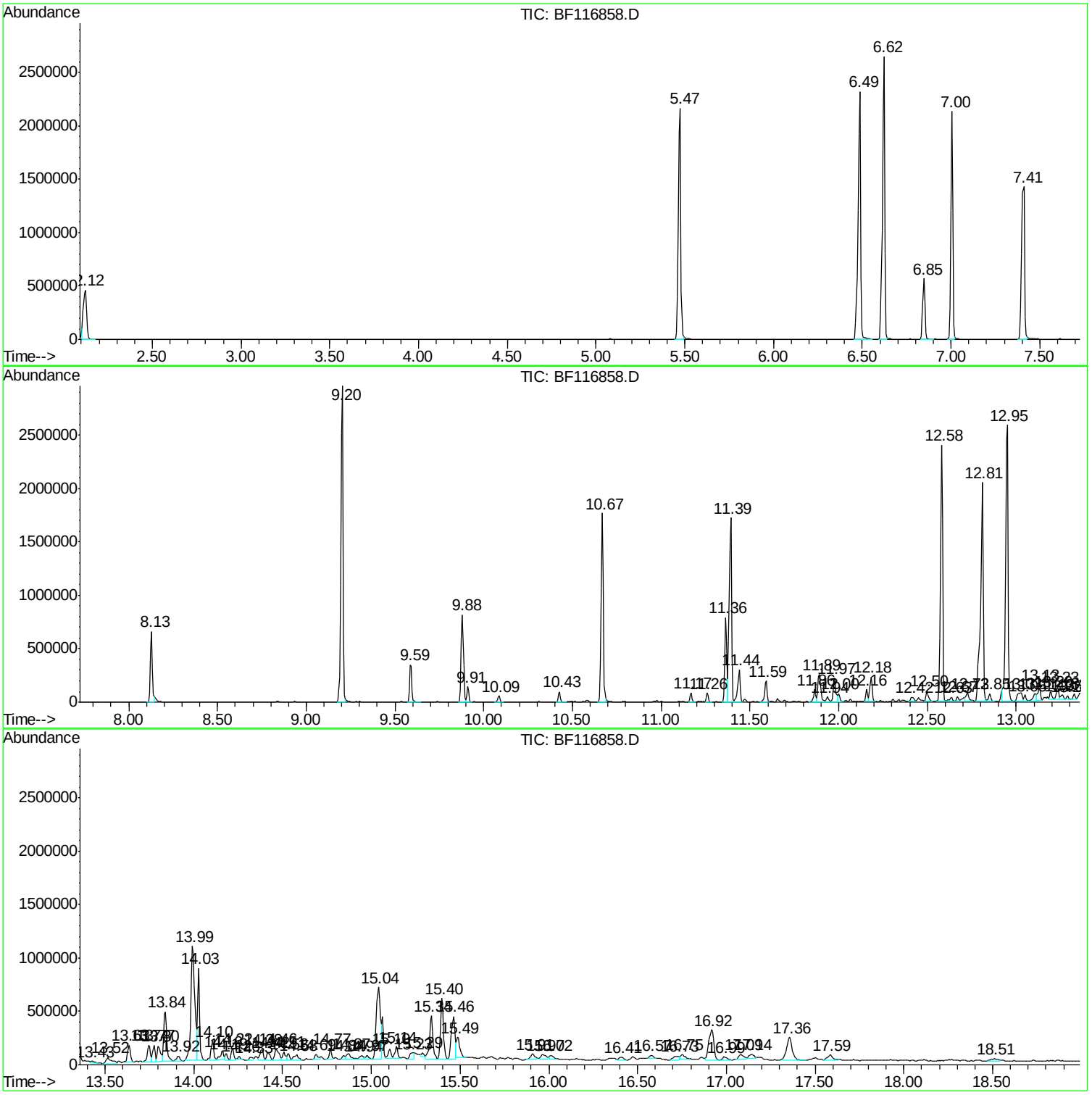
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116858.D
Acq On : 6 Sep 2019 13:33
Operator : HP/JU
Sample : K4650-09
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.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:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116858.D
Acq On : 6 Sep 2019 13:33
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Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

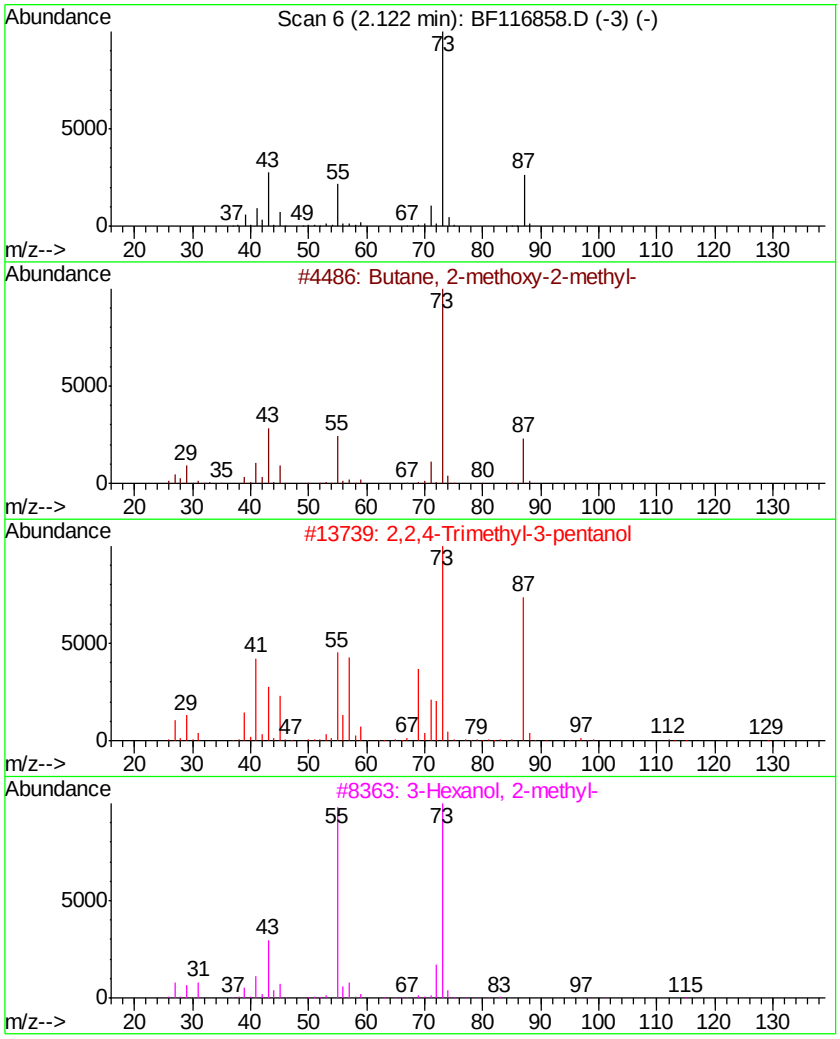
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

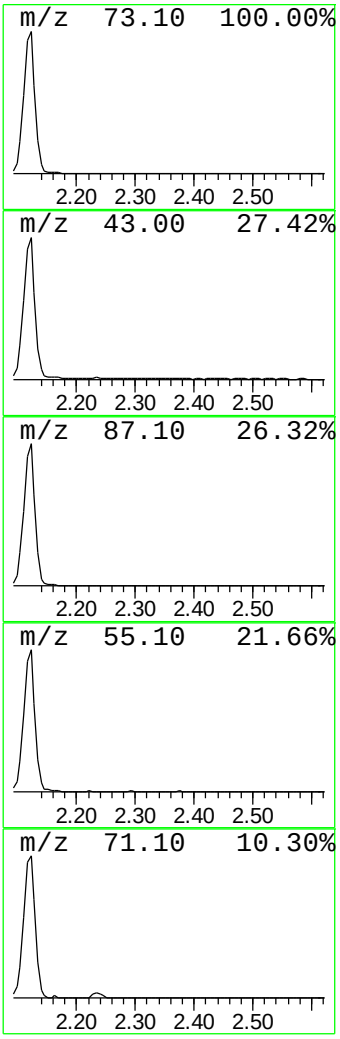
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.12	24.64 ng	559861	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	17
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	16





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116858.D
Acq On : 6 Sep 2019 13:33
Operator : HP/JU
Sample : K4650-09
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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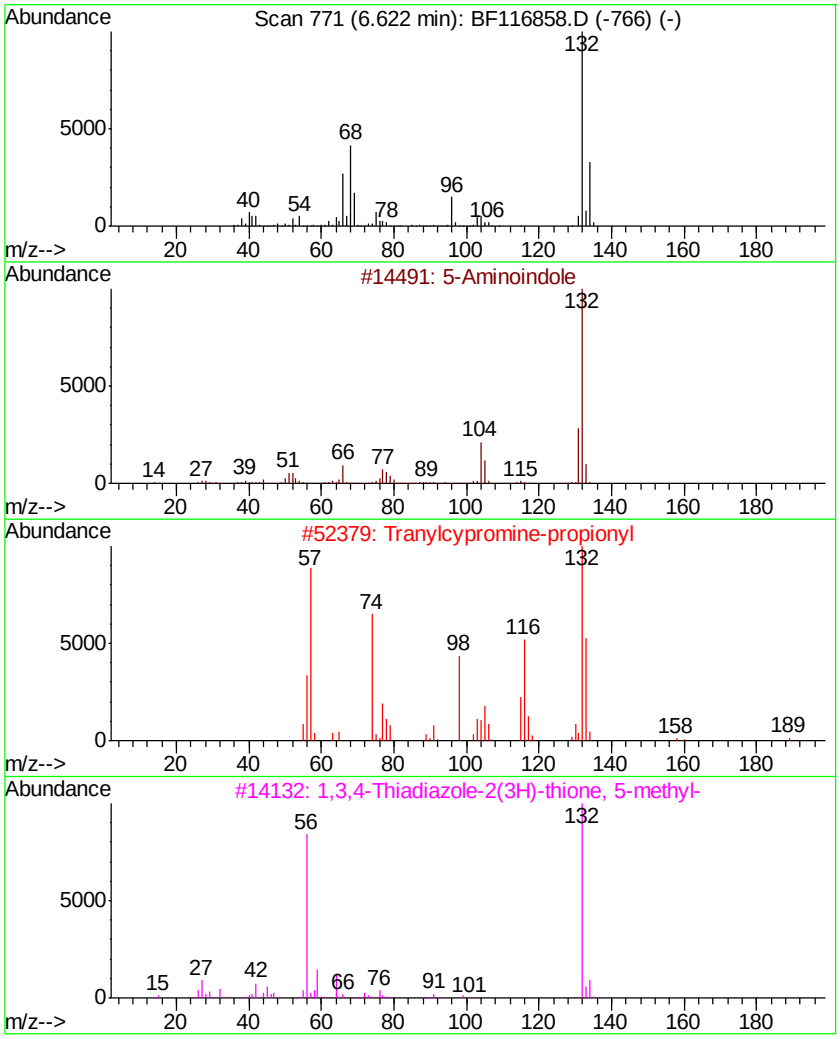
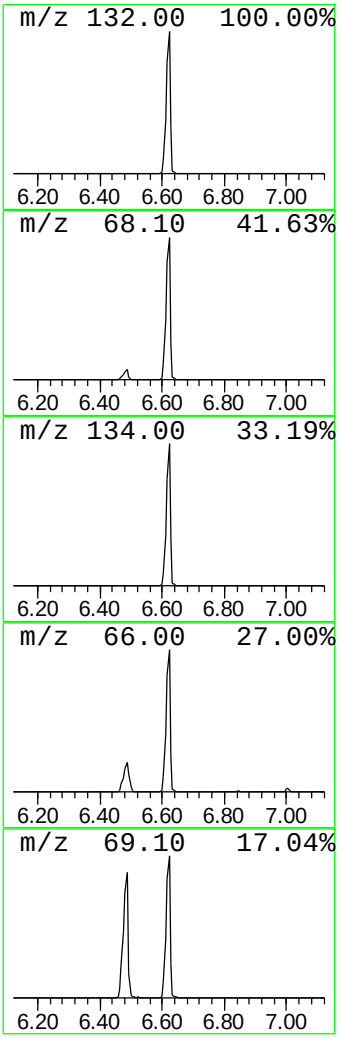
****

Peak Number 2 unknown6.62 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	107.33 ng	2439020	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Aminoindole	132	C8H8N2	005192-03-0	22
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
3	1,3,4-Thiadiazole-2(3H)-thione, ...	132	C3H4N2S2	029490-19-5	9
4	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9
5	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	9





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Instrument : BNA_F
ClientSampleId : TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

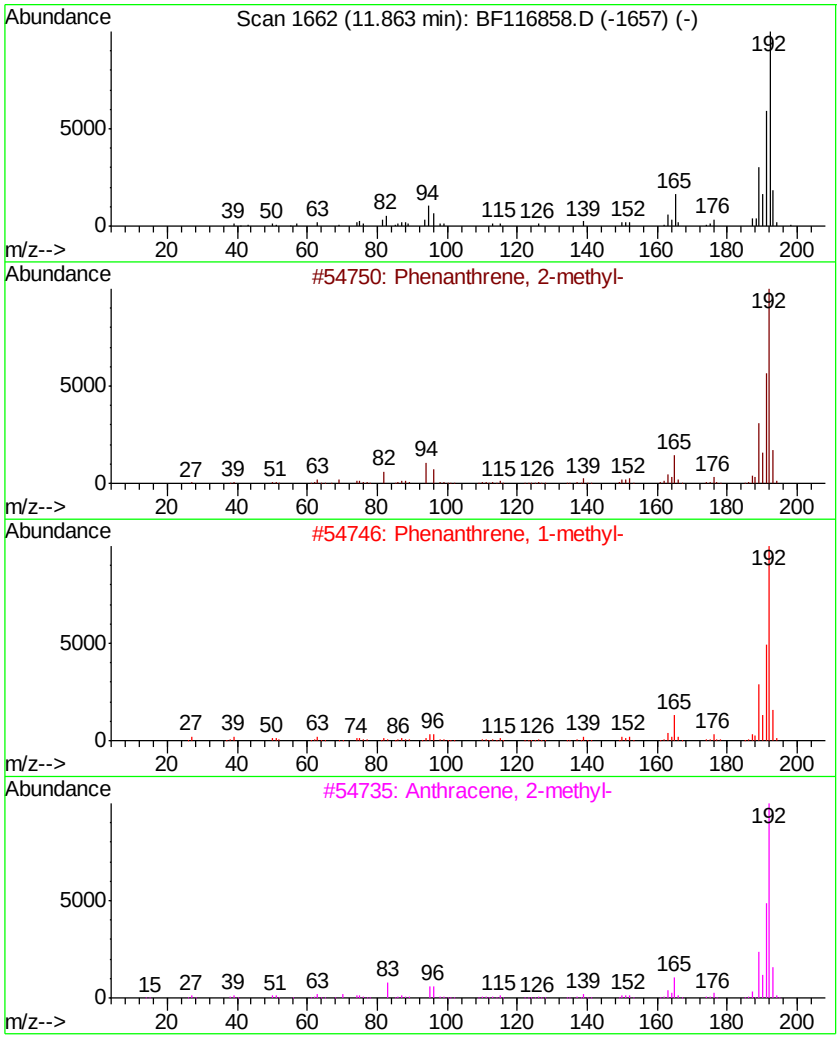
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

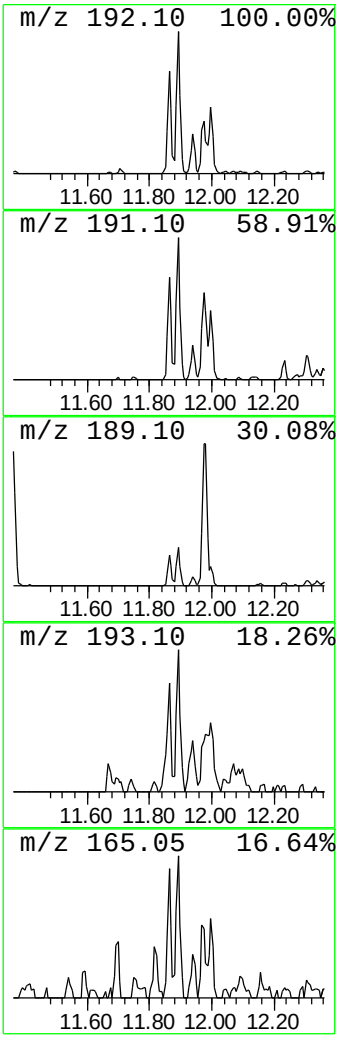
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	2.85 ng	100886	Phenanthrene-d10	11.36

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	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94





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Instrument : BNA_F
ClientSampleId : TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

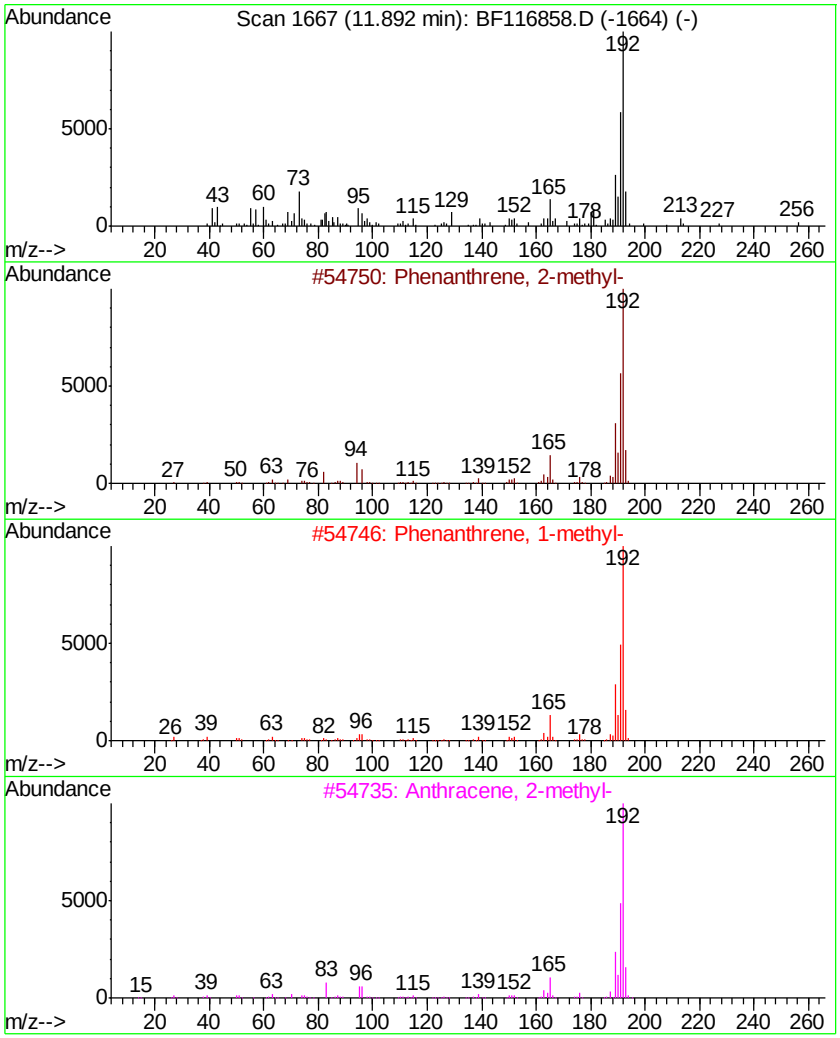
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

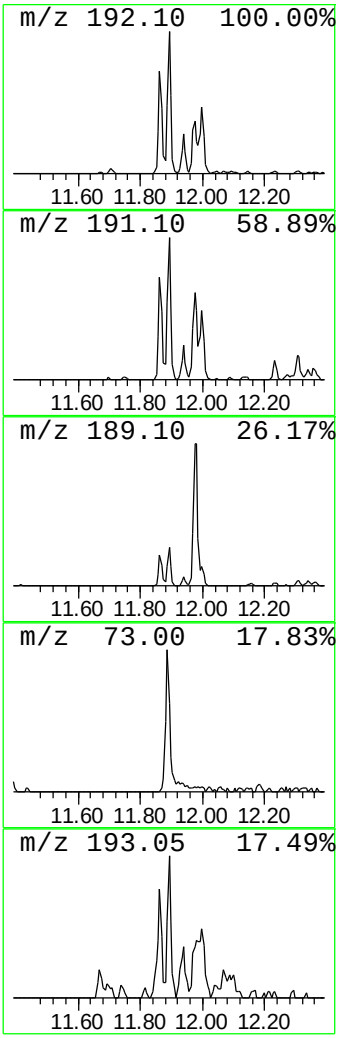
****

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	7.51 ng	265551	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93





Library Search Compound Report

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Data File : BF116858.D
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Operator : HP/JU
Sample : K4650-09
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

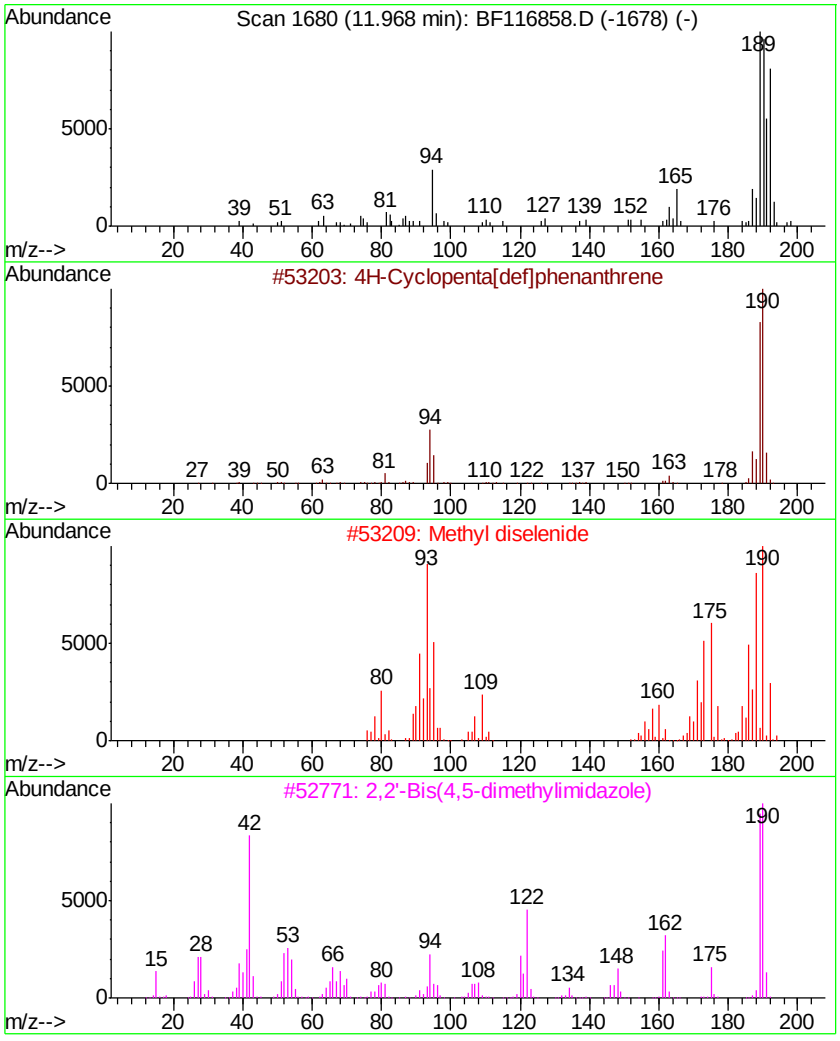
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

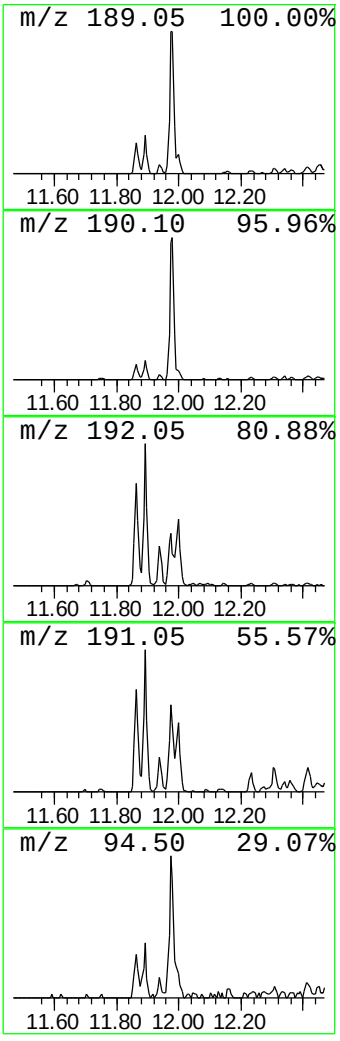
****

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	6.75 ng	238445	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Methyl diselenide	190	C2H6Se2	007101-31-7	55
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	33
5	2,6-Dichlorobenzaldoxime	189	C7H5Cl2NO	025185-95-9	30





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Misc :
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ClientSampleId : TP-5

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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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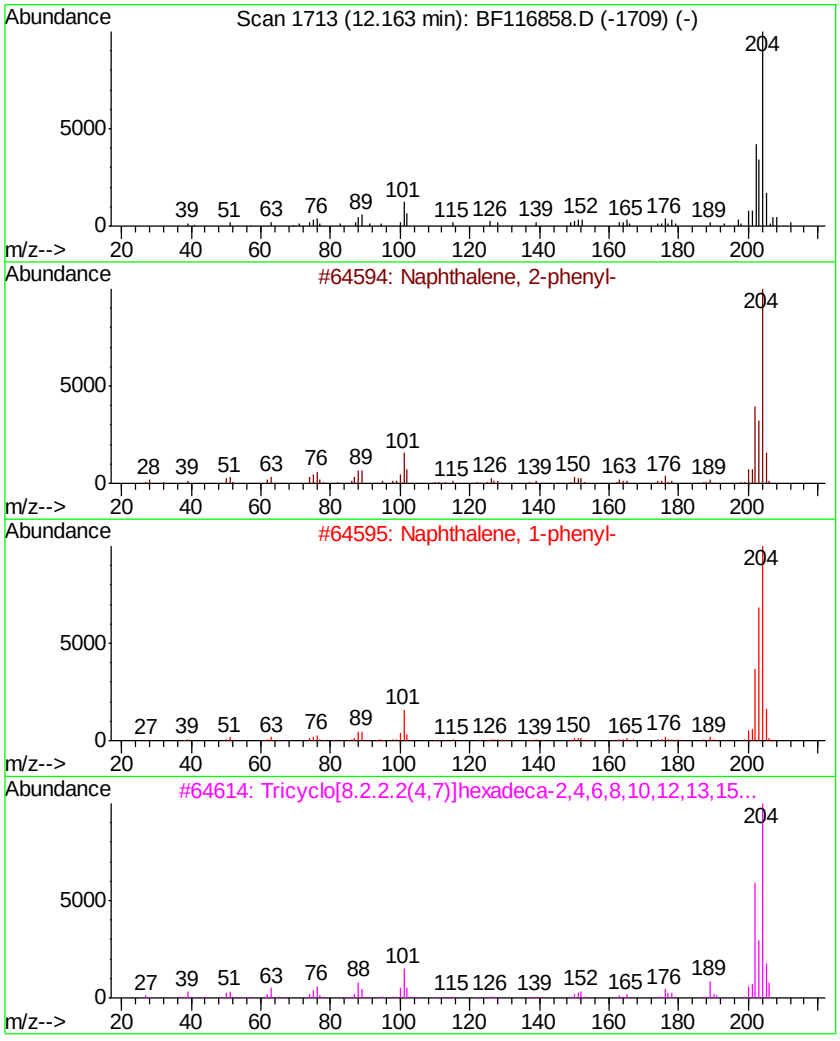
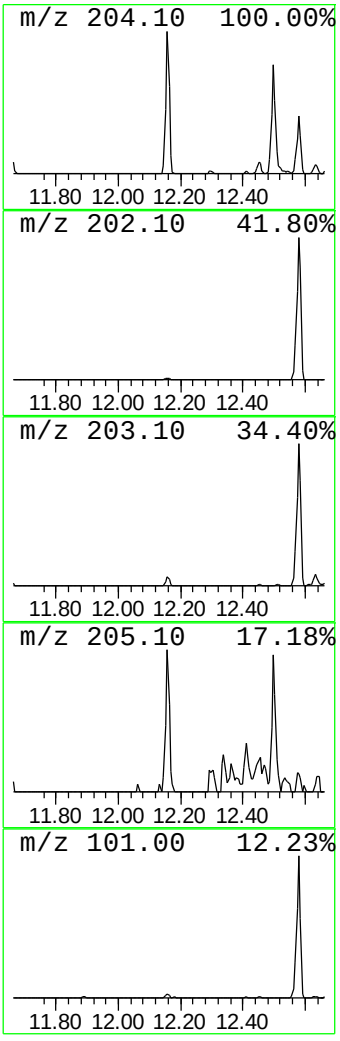
Peak Number 7 Naphthalene, 2-phenyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	2.69 ng	95010	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	96
2	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	83
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	81
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	59





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ClientSampleId : TP-5

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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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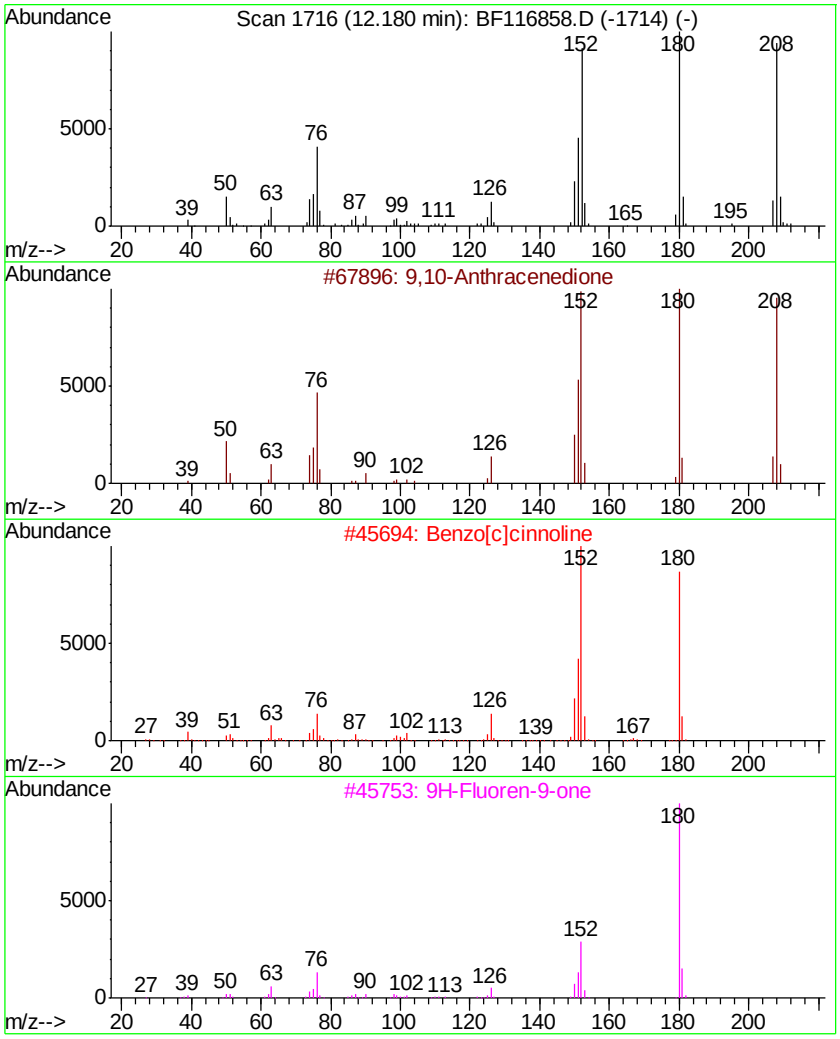
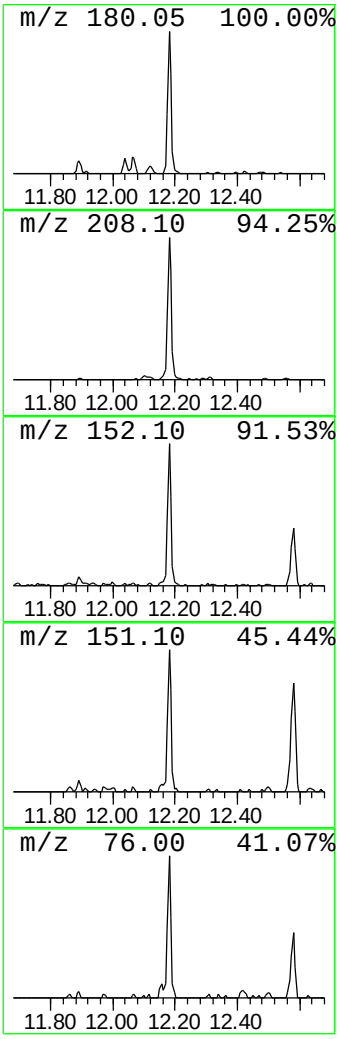
Peak Number 8 9,10-Anthracenedione Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.18	5.20 ng	183835	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	86
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	86
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	58





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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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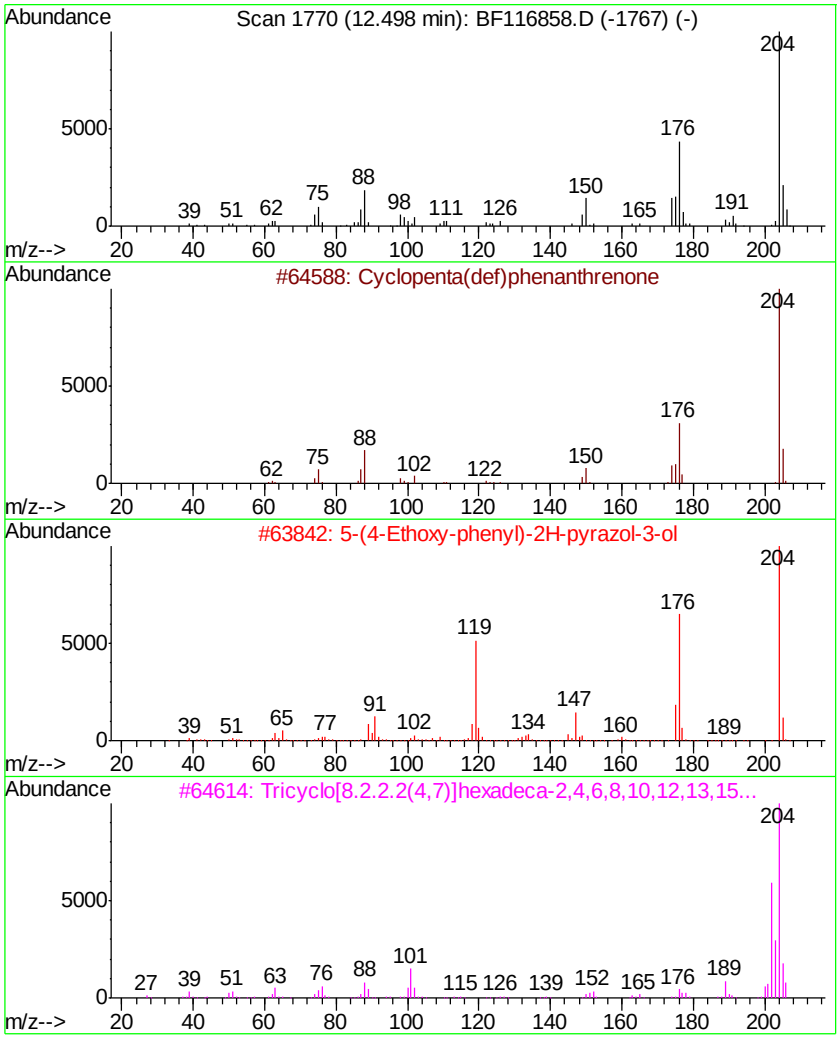
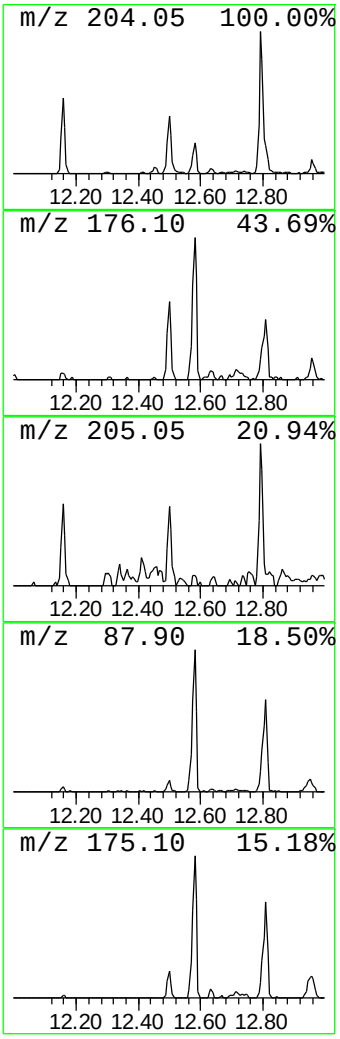
Peak Number 9 Cyclopenta(def)phenanthrenone Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.50	2.73 ng	96655	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	5-(4-Ethoxy-phenyl)-2H-pyrazol-3-ol	204	C11H12N2O2	1000278-26-8	53
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	47
4	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	45
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	43





Library Search Compound Report

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

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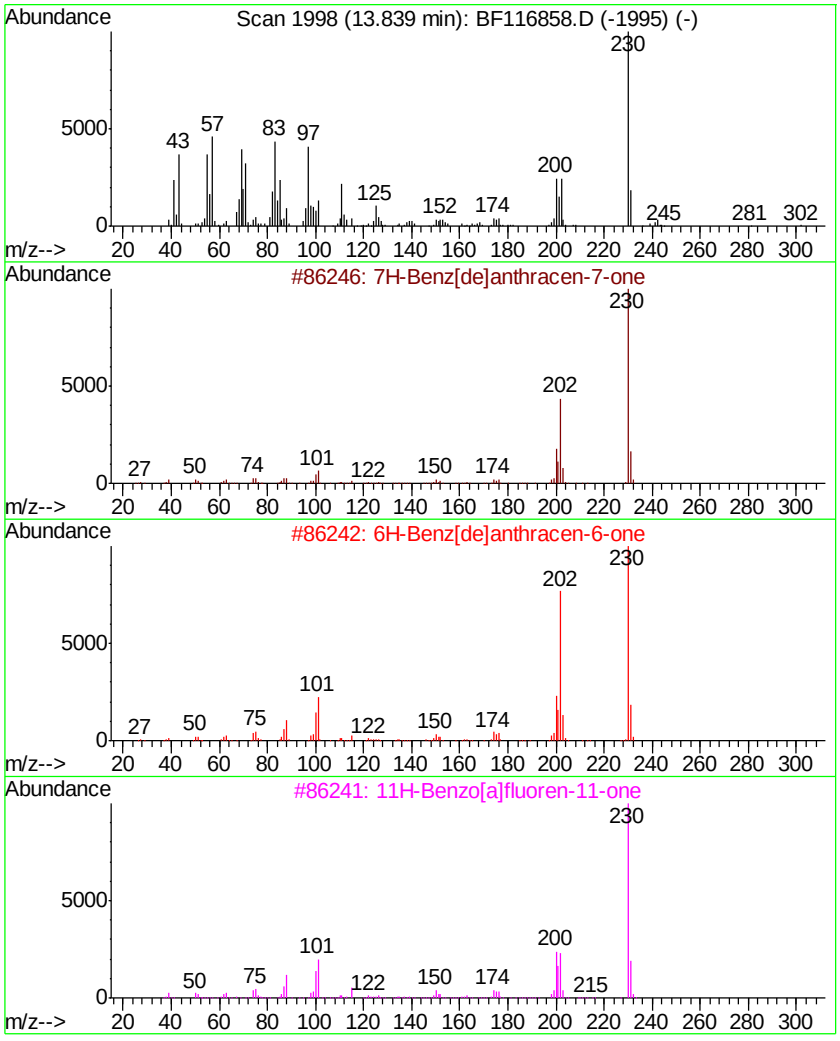
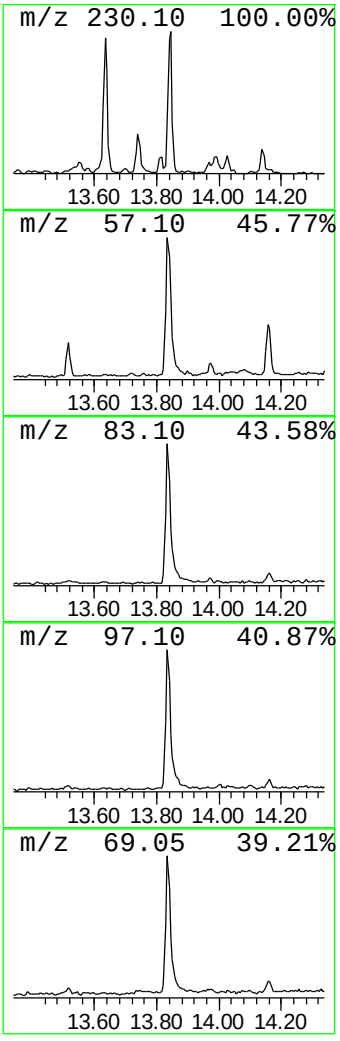
Peak Number 10 unknown13.84 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.84	7.17 ng	603309	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	41
2	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	38
3	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	38
4	2-Chloro-9-xanthenone	230	C13H7ClO2	013210-15-6	27
5	m-Terphenyl	230	C18H14	000092-06-8	22





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ClientSampleId : TP-5

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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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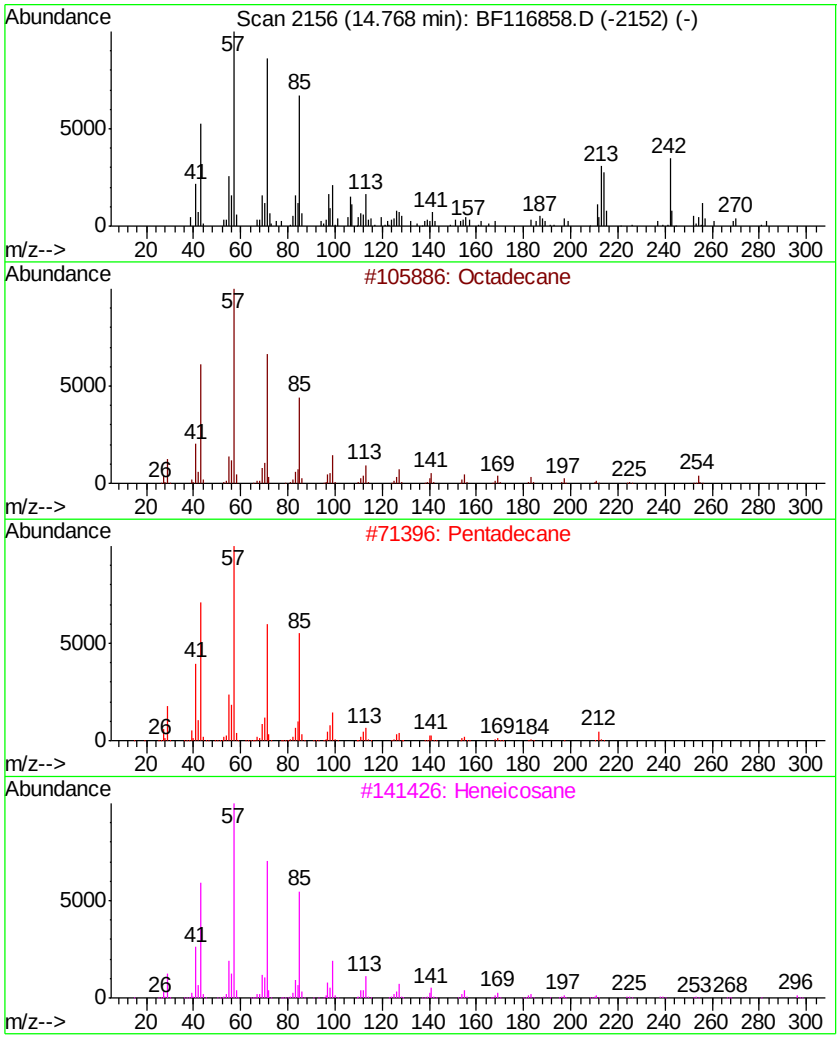
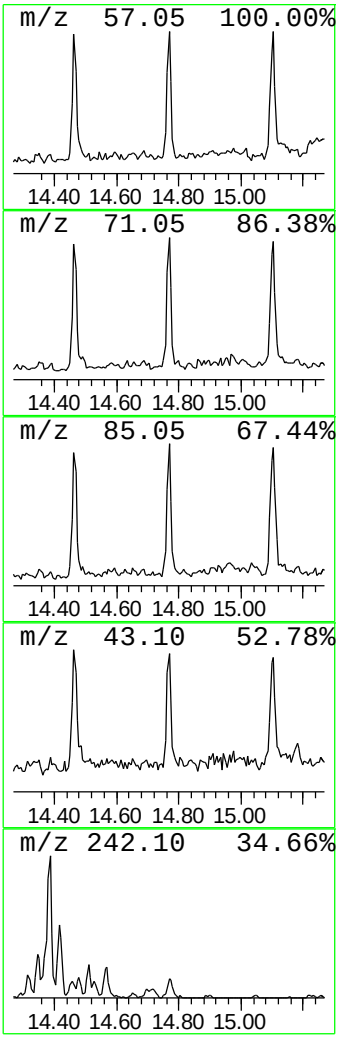
Peak Number 11 Octadecane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.77	3.61 ng	98876	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	87
2	Pentadecane	212	C15H32	000629-62-9	80
3	Heneicosane	296	C21H44	000629-94-7	55
4	Hexacosane	366	C26H54	000630-01-3	55
5	2-methyloctacosane	408	C29H60	1000376-72-8	49





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ClientSampleId : TP-5

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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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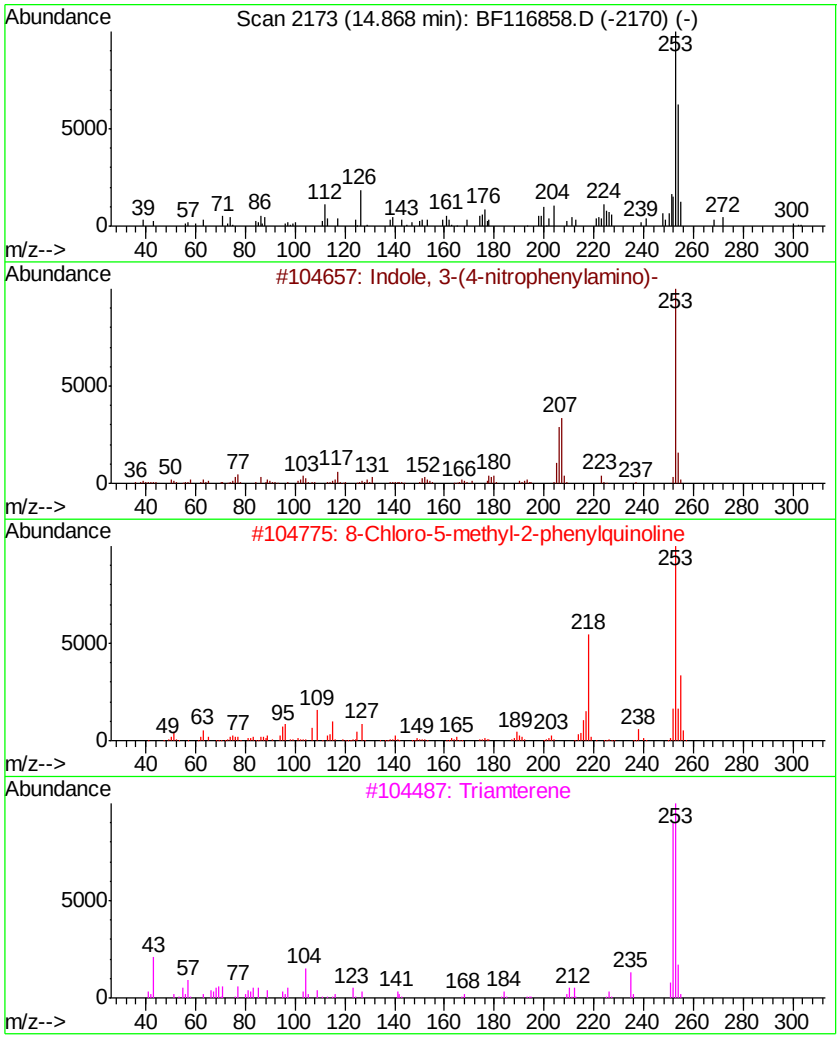
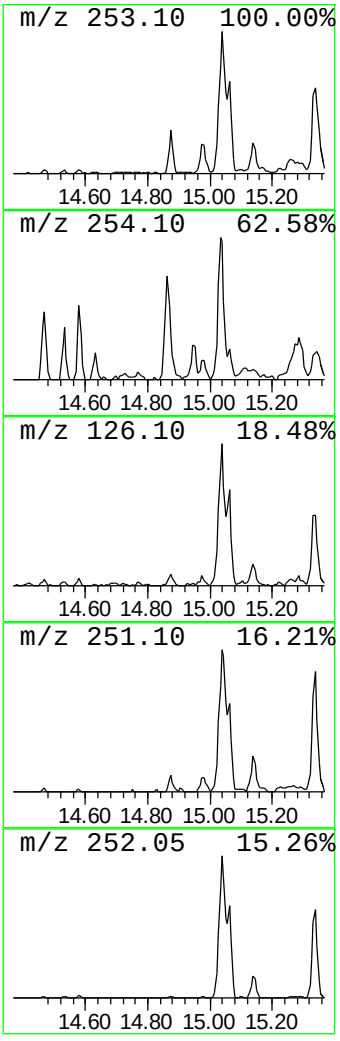
Peak Number 12 Indole, 3-(4-nitrophenylami... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.87	3.39 ng	92815	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indole, 3-(4-nitrophenylamino)-	253	C14H11N3O2	167954-19-0	50
2	8-Chloro-5-methyl-2-phenylquinoline	253	C16H12ClN	025413-16-5	42
3	Triamterene	253	C12H11N7	000396-01-0	42
4	Carbamate, N-(2-naphthyl)-, 3-pe...	253	C16H15NO2	1000197-96-0	37
5	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	36





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Sample : K4650-09
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-5

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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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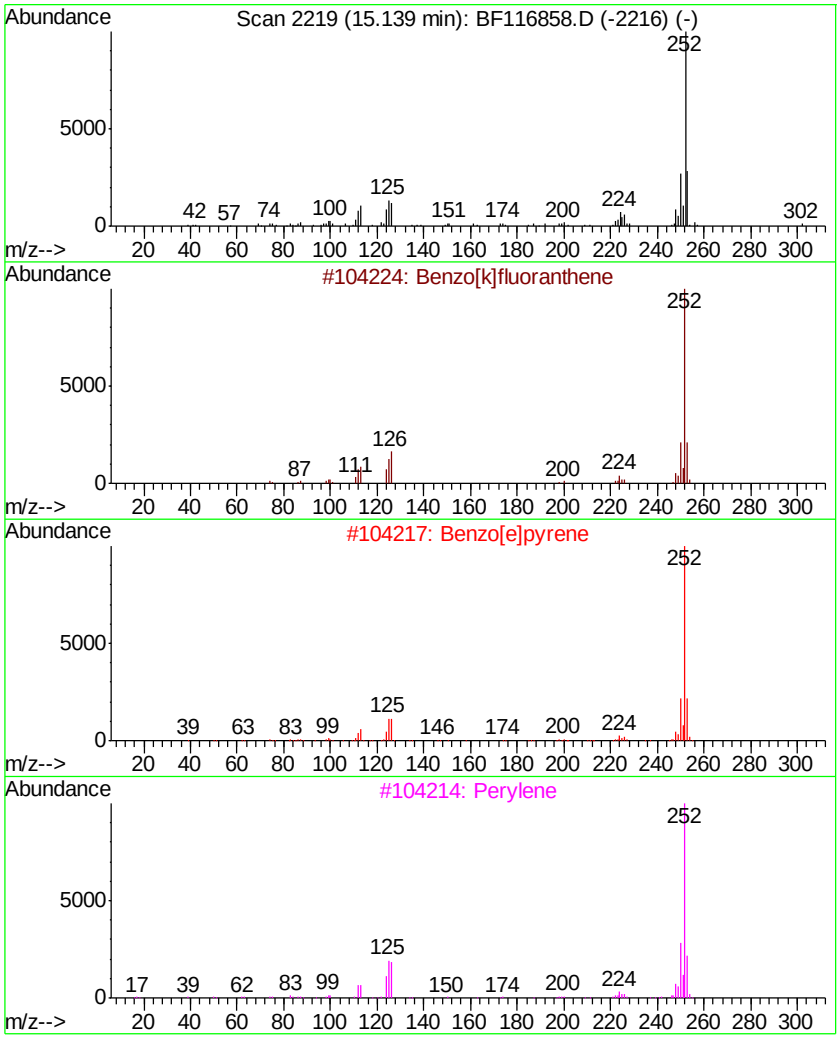
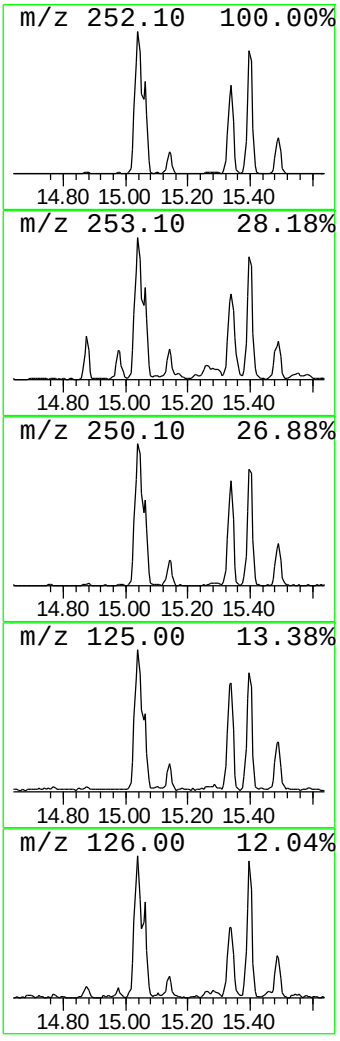
Peak Number 13 Benzo[e]pyrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.14	4.19 ng	114798	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
2	Benzo[e]pyrene	252	C20H12	000192-97-2	91
3	Perylene	252	C20H12	000198-55-0	91
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	86





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ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-5

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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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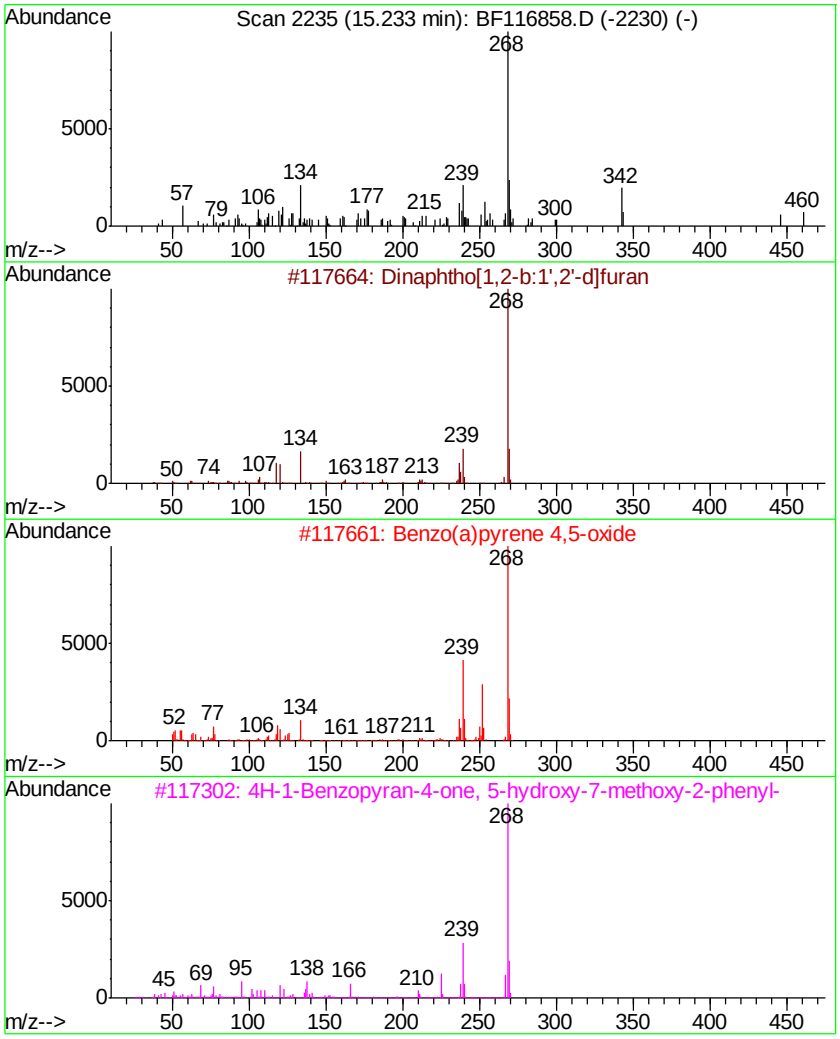
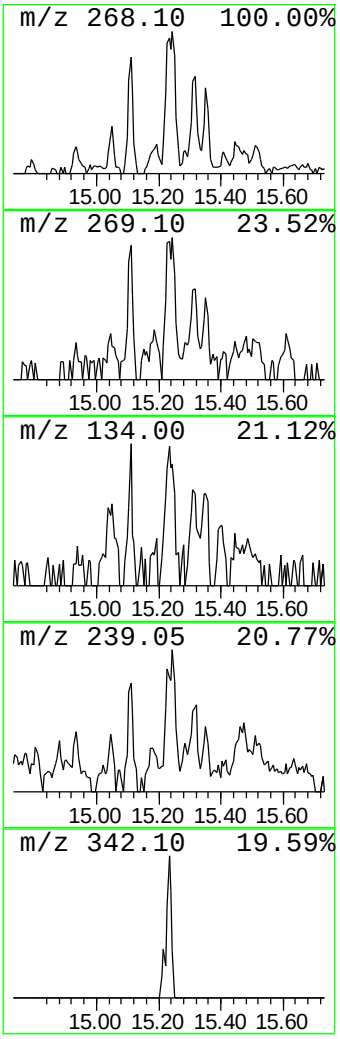
Peak Number 14 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.23	2.97 ng	81316	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	70
2	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	53
3	4H-1-Benzopyran-4-one, 5-hydroxy...	268	C16H12O4	000520-28-5	50
4	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	49
5	1-{4-[2-(4-Methoxymethylphenyl)v...	268	C18H20O2	1000202-15-4	49





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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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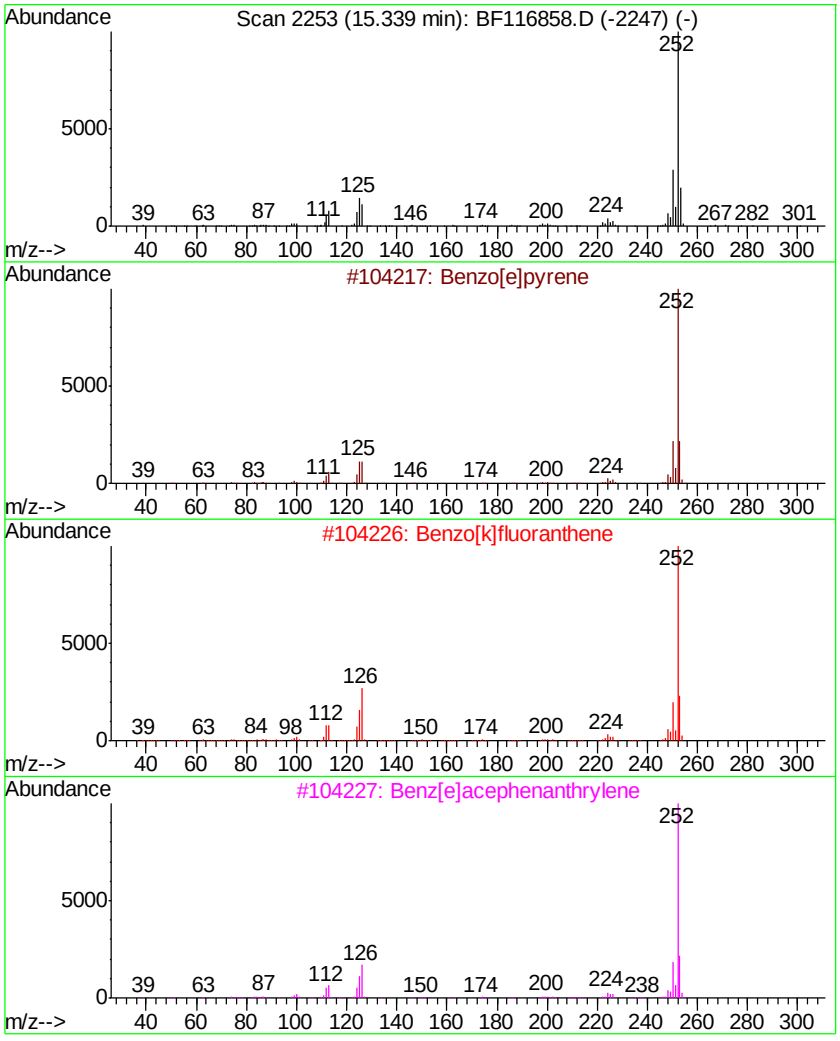
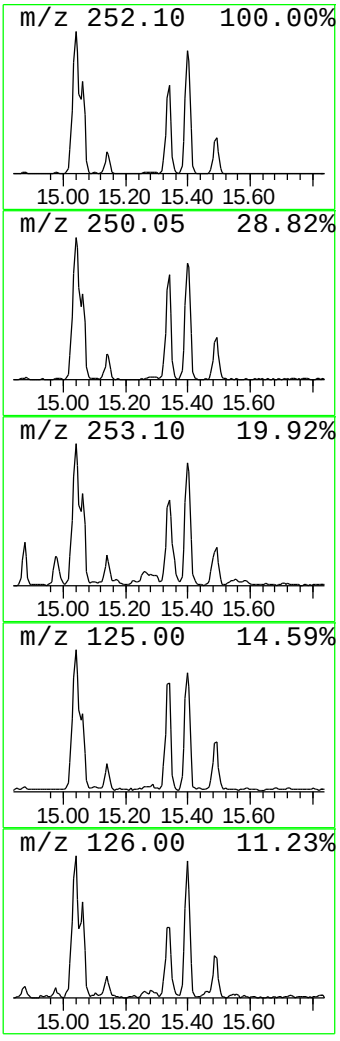
Peak Number 15 Perylene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.34	20.36 ng	557532	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Perylene	252	C20H12	000198-55-0	90





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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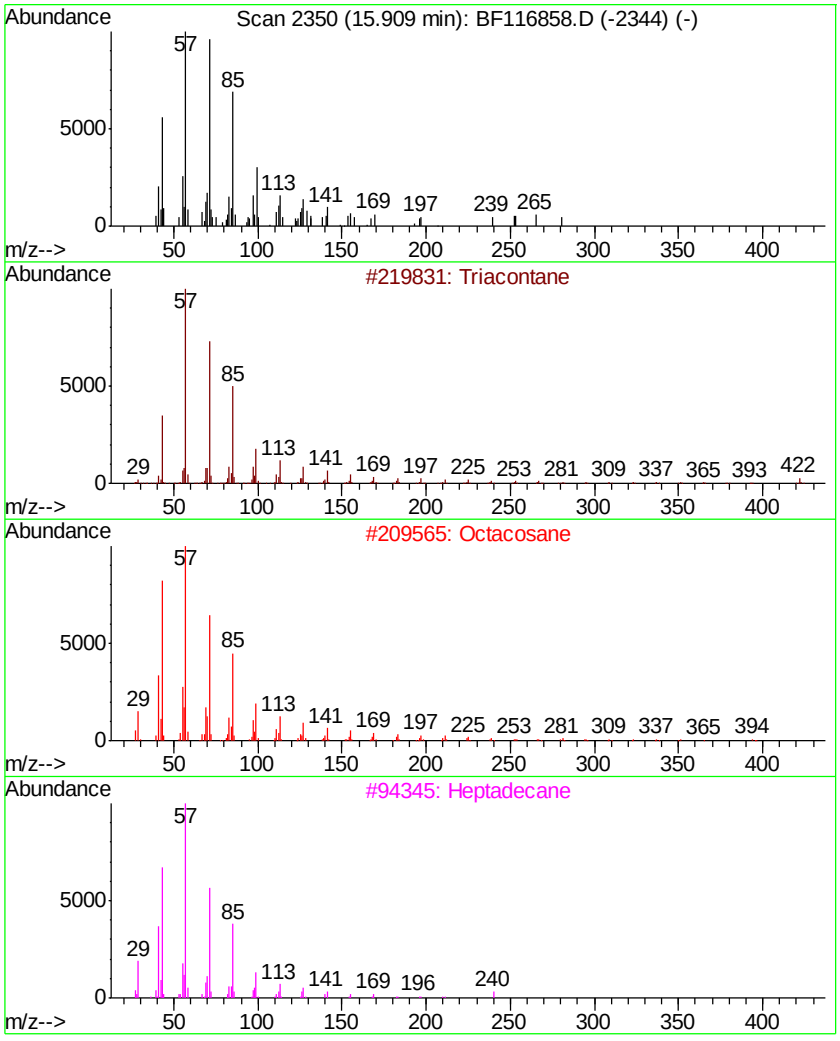
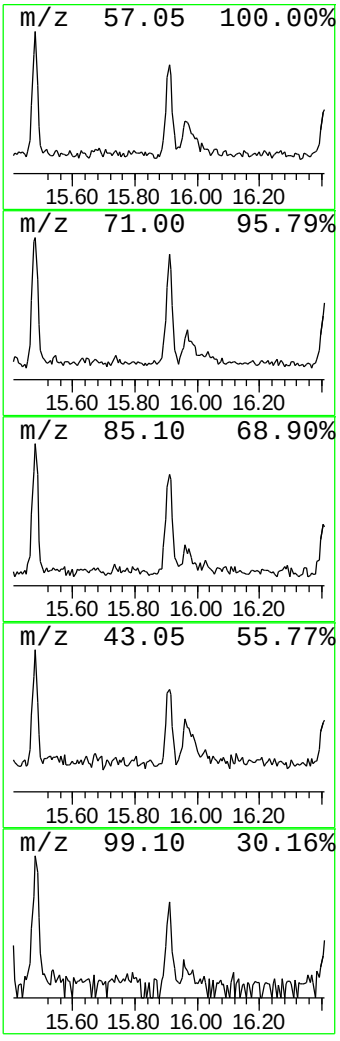
Peak Number 16 Triacontane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.91	3.25 ng	89024	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triacontane	422	C30H62	000638-68-6	83
2	Octacosane	394	C28H58	000630-02-4	83
3	Heptadecane	240	C17H36	000629-78-7	80
4	Docosane	310	C22H46	000629-97-0	80
5	Sulfurous acid, butyl heptadecyl...	376	C21H44O3S	1000309-18-4	80





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

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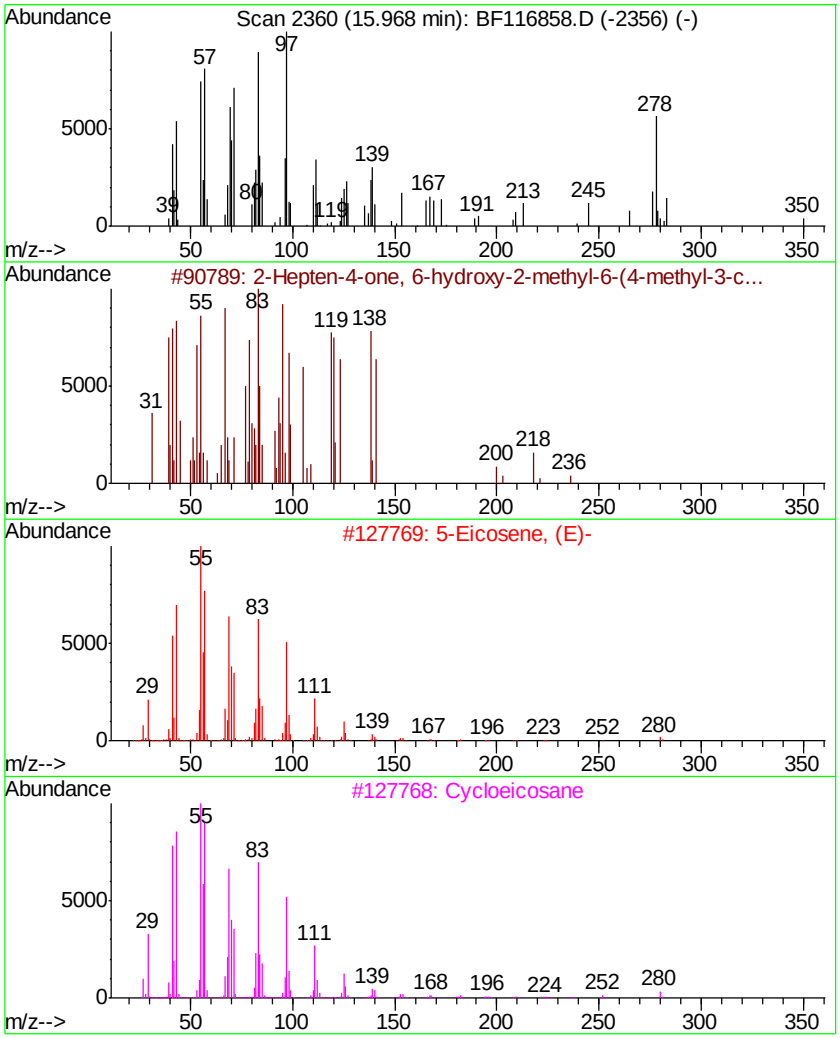
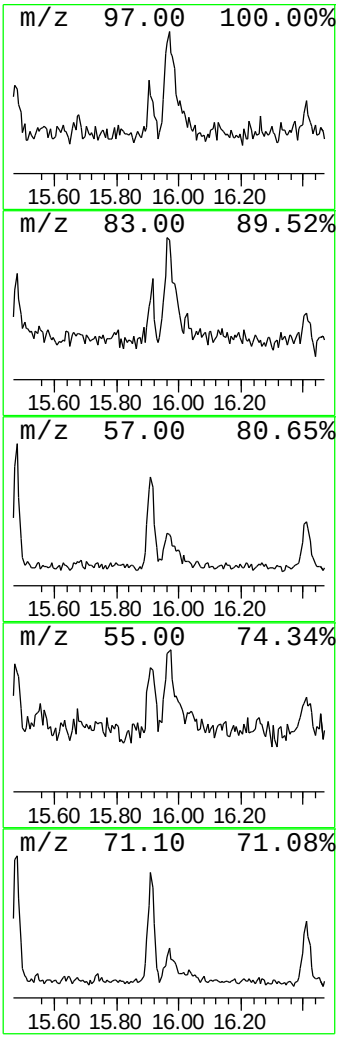
Peak Number 17 2-Hepten-4-one, 6-hydroxy-2... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.97	3.18 ng	87182	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hepten-4-one, 6-hydroxy-2-meth...	236	C15H24O2	038043-98-0	90
2	5-Eicosene, (E)-	280	C20H40	074685-30-6	49
3	Cycloeicosane	280	C20H40	000296-56-0	46
4	cis-Vaccenic acid	282	C18H34O2	000506-17-2	43
5	cis-13-Octadecenoic acid	282	C18H34O2	013126-39-1	43





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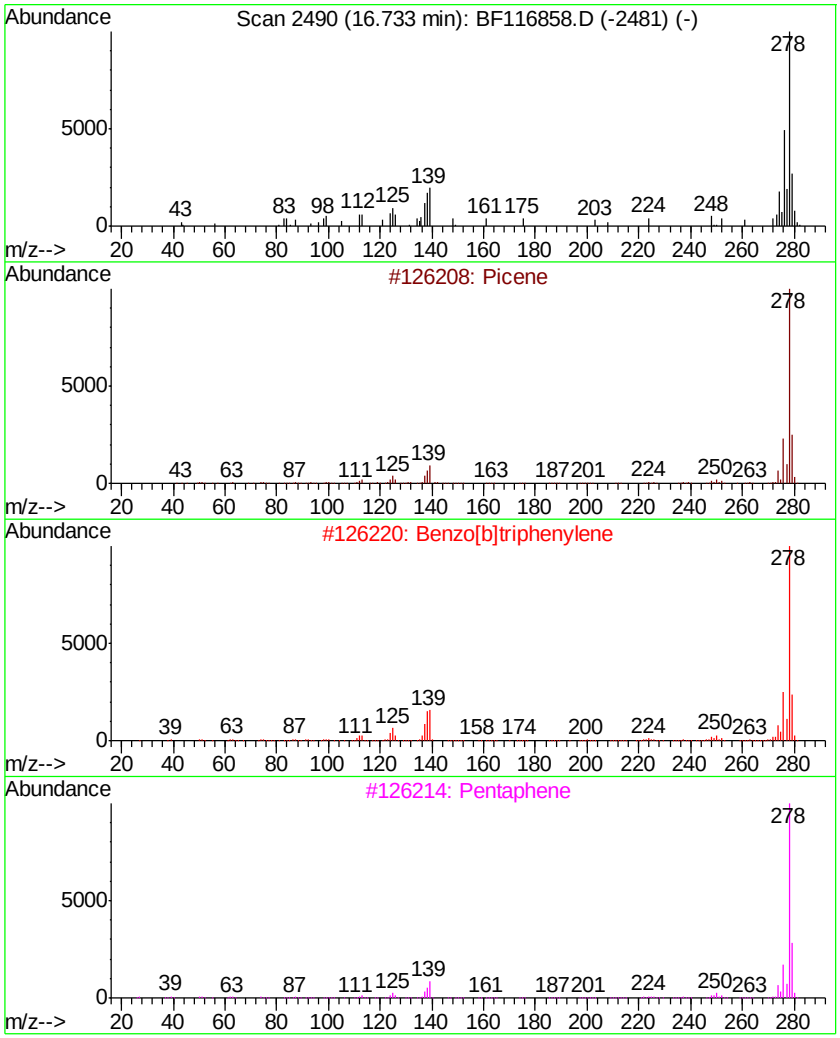
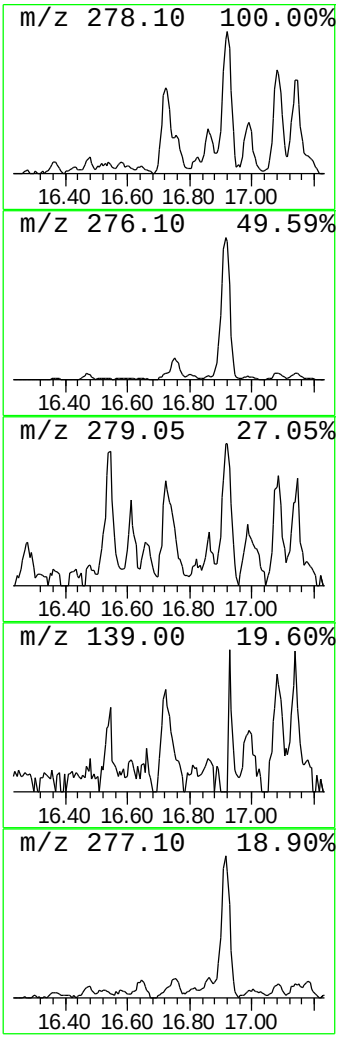
Peak Number 18 Picene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.73	2.60 ng	71155	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	95
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	94
3	Pentaphene	278	C22H14	000222-93-5	89
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	86
5	Benzo[b]chrysene	278	C22H14	000214-17-5	76





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116858.D
Acq On : 6 Sep 2019 13:33
Operator : HP/JU
Sample : K4650-09
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.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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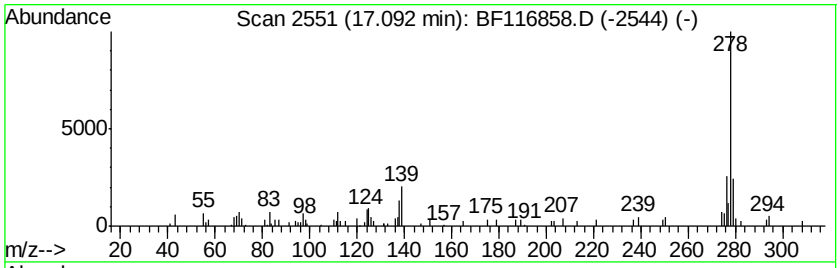
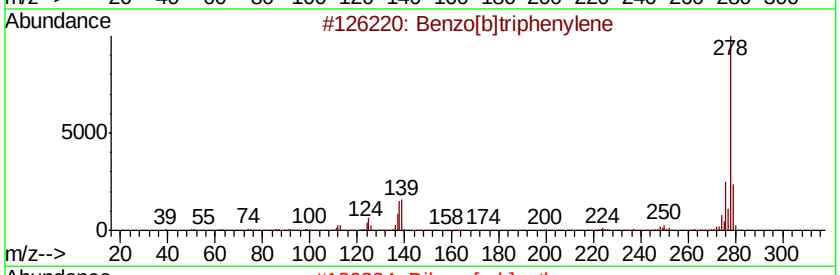
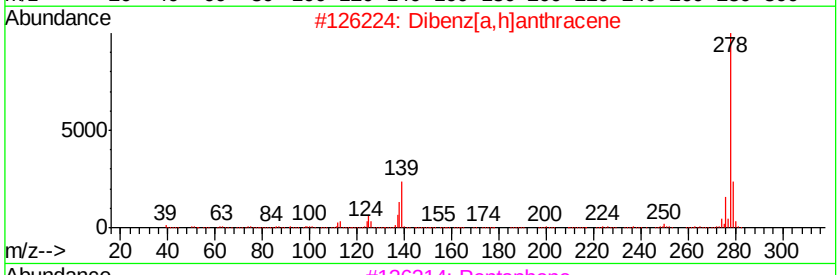
Peak Number 19 Benzo[b]triphenylene Concentration Rank 10

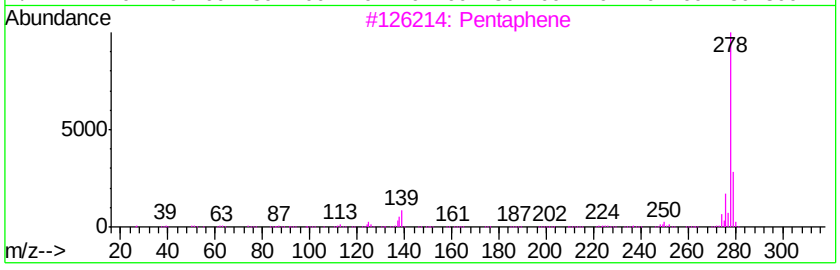
R.T.	EstConc	Area	Relative to ISTD	R.T.
17.09	3.92 ng	107368	Perylene-d12	15.46

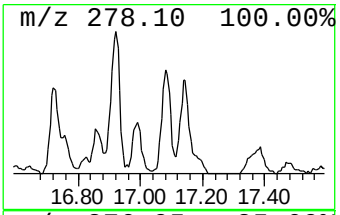
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	86
3	Pentaphene	278	C22H14	000222-93-5	76
4	Picene	278	C22H14	000213-46-7	76
5	p-Bis(phenylethynyl)benzene	278	C22H14	001849-27-0	72

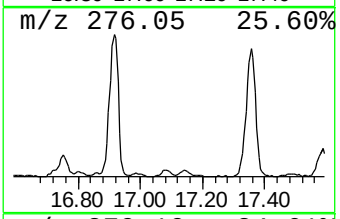


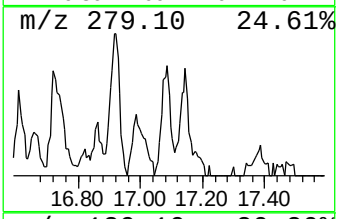


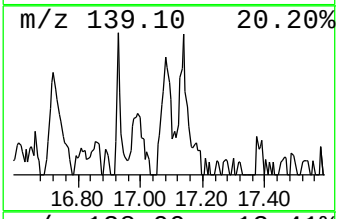


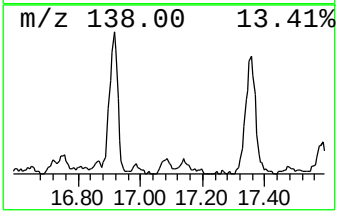












Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
Data File : BF116858.D
Acq On : 6 Sep 2019 13:33
Operator : HP/JU
Sample : K4650-09
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.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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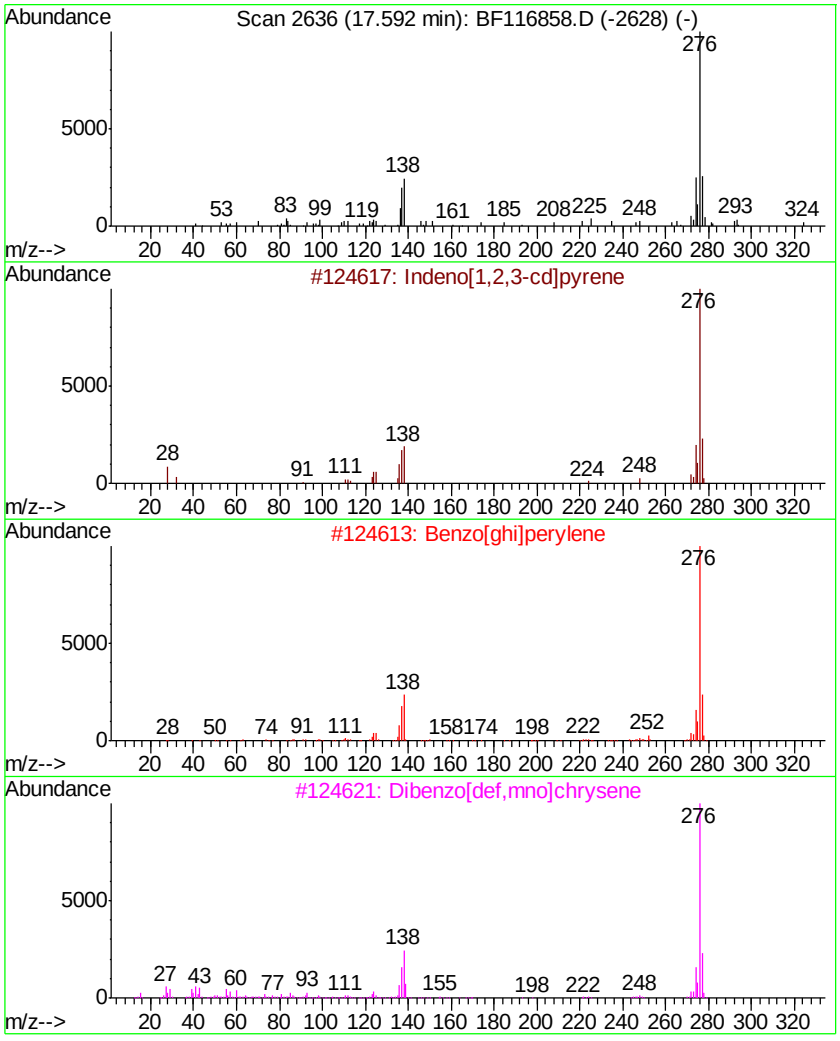
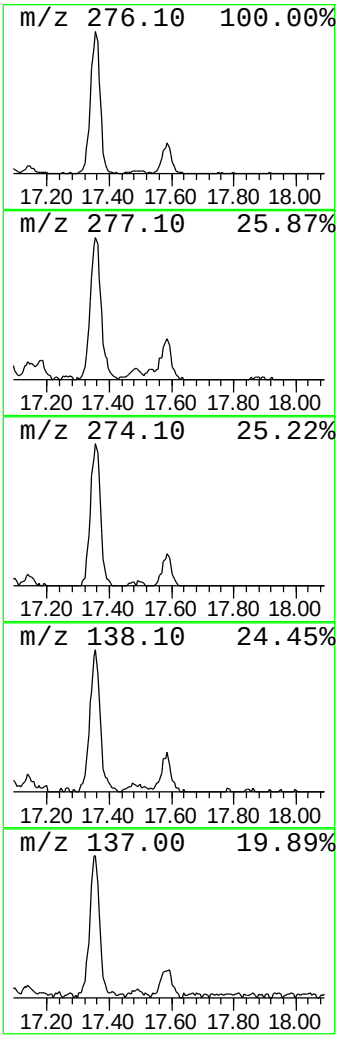
Peak Number 20 Indeno[1,2,3-cd]fluoranthene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.59	3.80 ng	104191	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	94
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	91
3	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	91
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	87
5	6H-Pyrido[4,3-b]carbazole, 9-met...	276	C18H16N2O	010371-86-5	50





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF090619\
Data File : BF116858.D
Acq On : 6 Sep 2019 13:33
Operator : HP/JU
Sample : K4650-09
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methoxy...	2.12	24.6	ng	559861	1	6.85	454492	20.0
unknown6.62	6.62	107.3	ng	2439020	1	6.85	454492	20.0
Phenanthrene, 2-m...	11.86	2.9	ng	100886	4	11.36	706999	20.0
Phenanthrene, 1-m...	11.89	7.5	ng	265551	4	11.36	706999	20.0
4H-Cyclopenta[def...	11.97	6.8	ng	238445	4	11.36	706999	20.0
Naphthalene, 2-ph...	12.16	2.7	ng	95010	4	11.36	706999	20.0
9,10-Anthracenedione	12.18	5.2	ng	183835	4	11.36	706999	20.0
Cyclopenta(def)ph...	12.50	2.7	ng	96655	4	11.36	706999	20.0
unknown13.84	13.84	7.2	ng	603309	5	14.00	1683900	20.0
Octadecane	14.77	3.6	ng	98876	6	15.46	547727	20.0
Indole, 3-(4-nitr...	14.87	3.4	ng	92815	6	15.46	547727	20.0
Benzo[e]pyrene	15.14	4.2	ng	114798	6	15.46	547727	20.0
Dinaphtho[1,2-b:1...	15.23	3.0	ng	81316	6	15.46	547727	20.0
Perylene	15.34	20.4	ng	557532	6	15.46	547727	20.0
Triacontane	15.91	3.3	ng	89024	6	15.46	547727	20.0
2-Hepten-4-one, 6...	15.97	3.2	ng	87182	6	15.46	547727	20.0
Picene	16.73	2.6	ng	71155	6	15.46	547727	20.0
Benzo[b]triphenylene	17.09	3.9	ng	107368	6	15.46	547727	20.0
Indeno[1,2,3-cd]f...	17.59	3.8	ng	104191	6	15.46	547727	20.0