LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA F\DATA\BF082217\
Data File : BF097980.D
Acq On : 23 Aug 2017 3:42
Operator : SJ/JU
Sample : I4908-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TR-04-082117-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:\HPCHEM1\BNA_F\METHODS\8270-BF081517.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	4.928	480	483	490	rVB	74168	78358	2.39%	0.162%
2	5.345	550	554	562	rBV	849771	767255	23.44%	1.590%
3	6.375	725	729	735	rBV	981426	858579	26.24%	1.780%
4	6.510	749	752	756	rBV	884760	814772	24.90%	1.689%
5	6.745	789	792	796	rBV	996299	889984	27.19%	1.845%
6	6.904	815	819	822	rBV	789387	670953	20.50%	1.391%
7	7.310	883	888	891	rBV	502002	469803	14.36%	0.974%
8	8.033	1006	1011	1014	rBV	1297634	1137313	34.75%	2.357%
9	8.839	1144	1148	1152	rBV	52660	48878	1.49%	0.101%
10	9.104	1189	1193	1197	rBV	1107902	957953	29.27%	1.986%
11	9.192	1203	1208	1212	rBV2	74716	114288	3.49%	0.237%
12	9.374	1235	1239	1243	rVB3	93275	103856	3.17%	0.215%
13	9.445	1248	1251	1253	rVV3	148325	139033	4.25%	0.288%
14	9.469	1253	1255	1257	rVV	89191	70038	2.14%	0.145%
15	9.498	1257	1260	1265	rVV3	164198	254300	7.77%	0.527%
16	9.557	1268	1270	1275	rVB3	69736	107098	3.27%	0.222%
17	9.645	1282	1285	1289	rBV2	145078	193049	5.90%	0.400%
18	9.698	1291	1294	1296	rVB	163156	145900	4.46%	0.302%
19	9.722	1296	1298	1299	rBV	56649	39092	1.19%	0.081%
20	9.786	1302	1309	1312	rBV	1232440	1340765	40.97%	2.779%
21	9.816	1312	1314	1318	rVB	265759	248490	7.59%	0.515%
22	9.986	1340	1343	1345	rVB2	202369	161312	4.93%	0.334%
23	10.045	1351	1353	1356	rVB2	79789	63092	1.93%	0.131%
24	10.104	1360	1363	1365	rBV2	131694	138944	4.25%	0.288%
25	10.157	1370	1372	1375	rBV3	89844	96983	2.96%	0.201%
26	10.192	1375	1378	1380	rBV2	250088	229622	7.02%	0.476%
27	10.327	1398	1401	1408	rBV2	436036	597125	18.25%	1.238%
28	10.445	1418	1421	1423	rVV	221700	206351	6.31%	0.428%
29	10.486	1426	1428	1433	rVB2	190529	196317	6.00%	0.407%
30	10.569	1439	1442	1446	rBV3	472233	538598	16.46%	1.116%
31	10.710	1463	1466	1470	rVB	580370	542098	16.56%	1.124%
32	11.174	1542	1545	1549	rVB2	591315	650521	19.88%	1.348%
33	11.268	1558	1561	1563	rBV	775935	786467	24.03%	1.630%
34	11.298	1563	1566	1569	rVV	2266581	2046887	62.55%	4.243%

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Operator : SJ/JU
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Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TR-04-082117-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:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.345	1571	1574	1578	rVB	815630	690557	21.10%	1.431%
36	11.674	1626	1630	1634	rVB	1234310	1161593	35.49%	2.408%
37	11.774	1644	1647	1649	rVB	323655	290940	8.89%	0.603%
38	11.798	1649	1651	1656	rVB	528509	461004	14.09%	0.956%
39	11.845	1657	1659	1661	rBV	274856	215602	6.59%	0.447%
40	11.886	1663	1666	1668	rBV	472217	472113	14.43%	0.979%
41	12.068	1695	1697	1699	rVB	294632	206074	6.30%	0.427%
42	12.357	1742	1746	1748	rBV	2435424	2407827	73.58%	4.991%
43	12.380	1748	1750	1752	rVB	2712187	2058133	62.89%	4.266%
44	12.463	1761	1764	1765	rBV	727804	597779	18.27%	1.239%
45	12.492	1765	1769	1772	rVB	2725713	2991112	91.40%	6.200%
46	12.715	1801	1807	1810	rBV2	2685865	3272606	100.00%	6.784%
47	12.827	1824	1826	1828	rBV	188410	151373	4.63%	0.314%
48	12.851	1828	1830	1837	rVB2	749833	870929	26.61%	1.805%
49	13.015	1855	1858	1859	rBV2	172148	200126	6.12%	0.415%
50	13.039	1859	1862	1864	rVB	632478	602856	18.42%	1.250%
51	13.104	1870	1873	1875	rVV	487390	410977	12.56%	0.852%
52	13.139	1875	1879	1882	rVB2	454039	450094	13.75%	0.933%
53	13.233	1892	1895	1897	rVB	207873	178878	5.47%	0.371%
54	13.262	1897	1900	1903	rBV2	198035	171016	5.23%	0.354%
55	13.539	1945	1947	1952	rVB	222365	264822	8.09%	0.549%
56	13.604	1956	1958	1962	rVV3	115865	115944	3.54%	0.240%
57	13.651	1962	1966	1969	rVV2	282516	368570	11.26%	0.764%
58	13.680	1969	1971	1973	rVV	332580	279619	8.54%	0.580%
59	13.704	1973	1975	1979	rVV2	273979	362209	11.07%	0.751%
60	13.745	1980	1982	1987	rVB	252573	285974	8.74%	0.593%
61	13.898	2002	2008	2012	rBV2	1893134	3022440	92.36%	6.265%
62	13.933	2012	2014	2019	rVB	1703992	1448044	44.25%	3.002%
63	14.009	2024	2027	2031	rVB	325843	266815	8.15%	0.553%
64	14.127	2043	2047	2050	rVB2	156202	208234	6.36%	0.432%
65	14.251	2066	2068	2070	rBV	110489	88789	2.71%	0.184%
66	14.286	2071	2074	2077	rVV	387608	416430	12.72%	0.863%
67	14.321	2077	2080	2083	rVB2	215611	192349	5.88%	0.399%
68	14.380	2088	2090	2093	rVB2	193131	164027	5.01%	0.340%
69	14.409	2093	2095	2097	rBV2	182391	165457	5.06%	0.343%
70	14.433	2097	2099	2103	rVB3	208278	187333	5.72%	0.388%
71	14.468	2103	2105	2106	rBV	88112	74821	2.29%	0.155%

LSC Area Percent Report

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

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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.927	2178	2183	2186	rBV	1150025	1995113	60.96%	4.136%
73	15.021	2197	2199	2203	rVB	280747	273368	8.35%	0.567%
74	15.209	2227	2231	2237	rVB	659693	913167	27.90%	1.893%
75	15.274	2237	2242	2247	rBV	1000986	1291310	39.46%	2.677%
76	15.333	2247	2252	2254	rVV	460763	606476	18.53%	1.257%
77	15.356	2254	2256	2263	rVB2	329439	403682	12.34%	0.837%
78	16.715	2481	2487	2494	rVB2	370280	722432	22.08%	1.497%
79	17.133	2552	2558	2567	rVB	262681	560209	17.12%	1.161%

Sum of corrected areas: 48243297

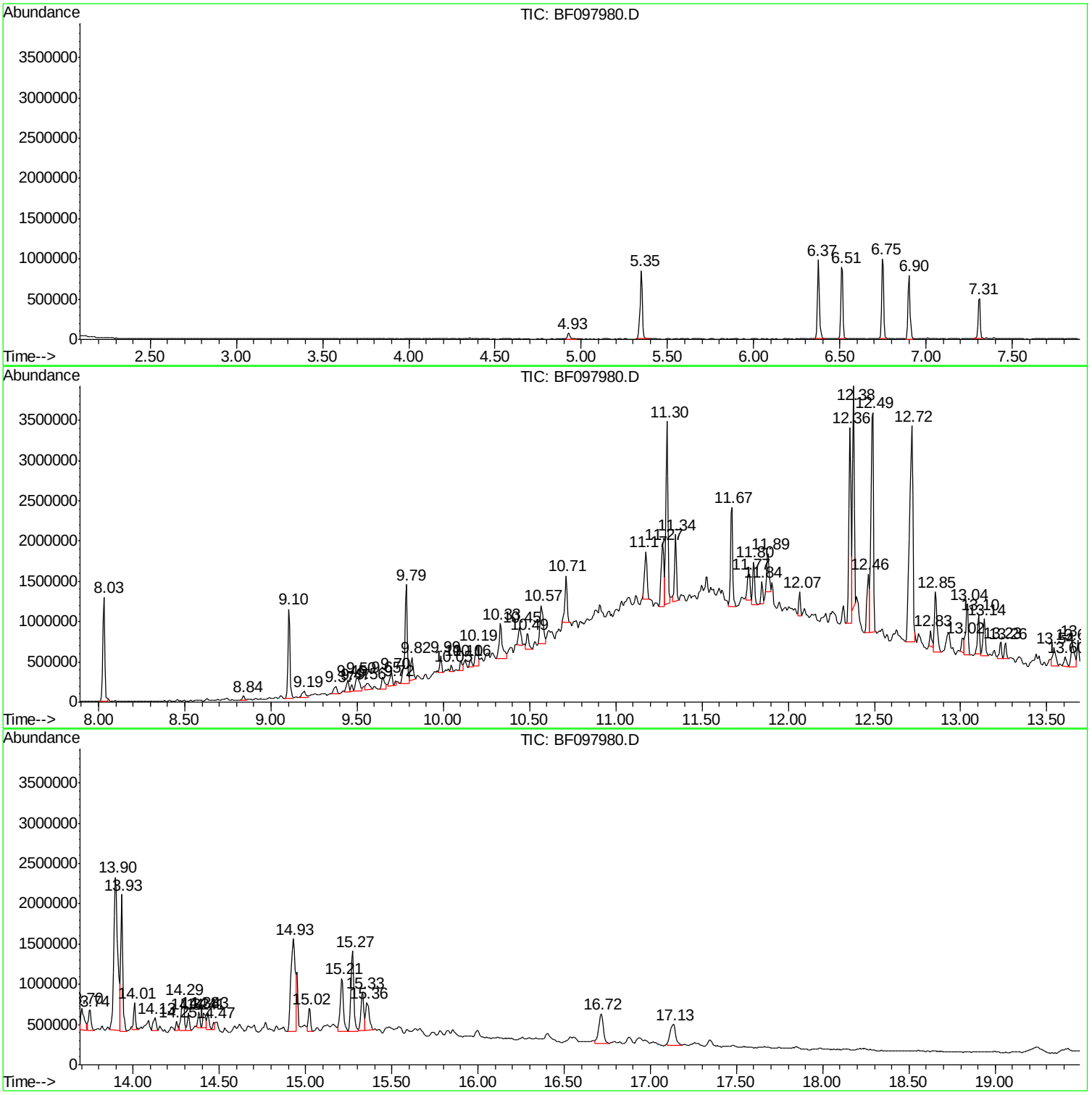
LSC Report - Integrated Chromatogram

Data Path : U:\HPCHEM1\BNA F\DATA\BF082217\
Data File : BF097980.D
Acq On : 23 Aug 2017 3:42
Operator : SJ/JU
Sample : I4908-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TR-04-082117-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.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 : U:\HPCHEM1\BNA F\DATA\BF082217\
Data File : BF097980.D
Acq On : 23 Aug 2017 3:42
Operator : SJ/JU
Sample : I4908-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TR-04-082117-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.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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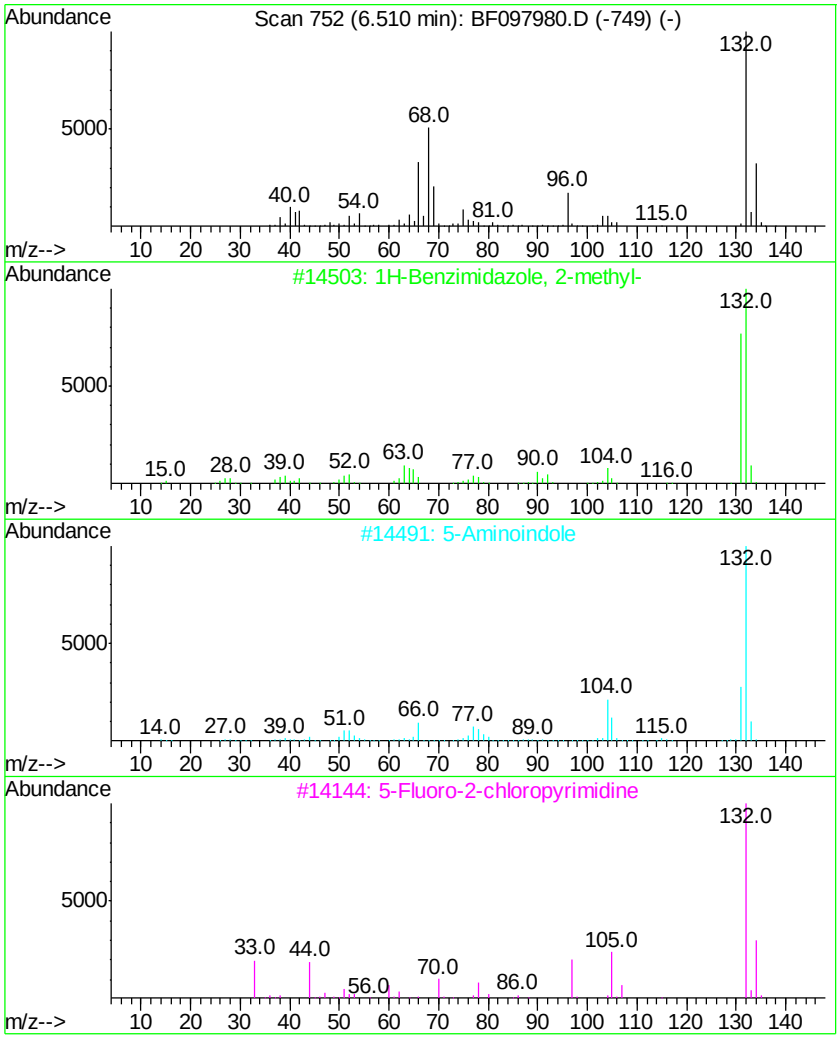
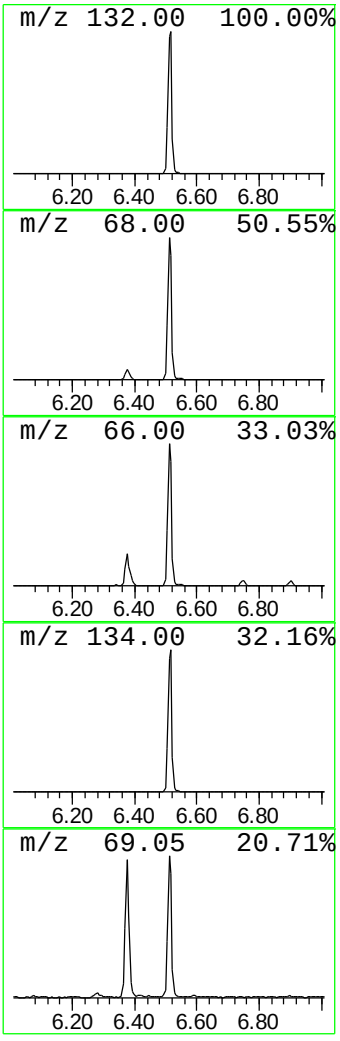
Peak Number 1 unknown6.51 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.51	18.31 ng	814772	1,4-Dichlorobenzene-d4	6.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22
2	5-Aminoindole	132	C8H8N2	005192-03-0	22
3	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
4	2-Cyclohexen-1-one	96	C6H8O	000930-68-7	10
5	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10





Library Search Compound Report

Data Path : U:\HPCHEM1\BNA F\DATA\BF082217\
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Acq On : 23 Aug 2017 3:42
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Sample : I4908-01 5X
Misc :
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Instrument : BNA_F
ClientSampleId : TR-04-082117-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.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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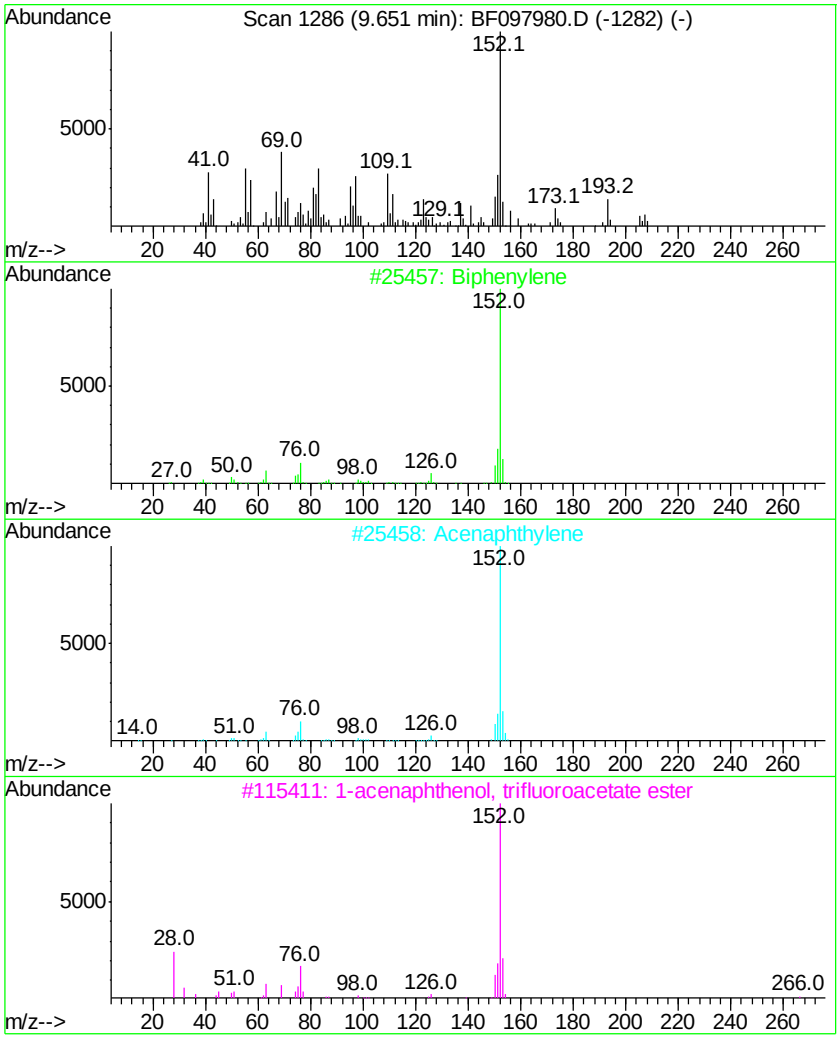
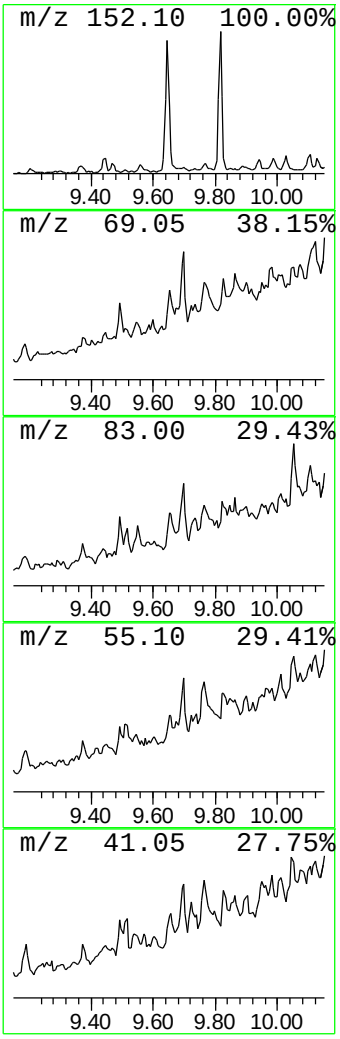
Peak Number 3 Biphenylene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.65	2.88 ng	193049	Acenaphthene-d10	9.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Biphenylene	152	C12H8	000259-79-0	89
2	Acenaphthylene	152	C12H8	000208-96-8	76
3	1-acenaphthenol, trifluoroacetat...	266	C14H9F3O2	1000376-45-2	58
4	Benzaldehyde, 2-hydroxy-3-methoxy-	152	C8H8O3	000148-53-8	53
5	2-Hydroxy-5-methoxybenzaldehyde,...	194	C10H10O4	1000352-89-8	49





Data Path : U:\HPCHEM1\BNA F\DATA\BF082217\
Data File : BF097980.D
Acq On : 23 Aug 2017 3:42
Operator : SJ/JU
Sample : I4908-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TR-04-082117-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

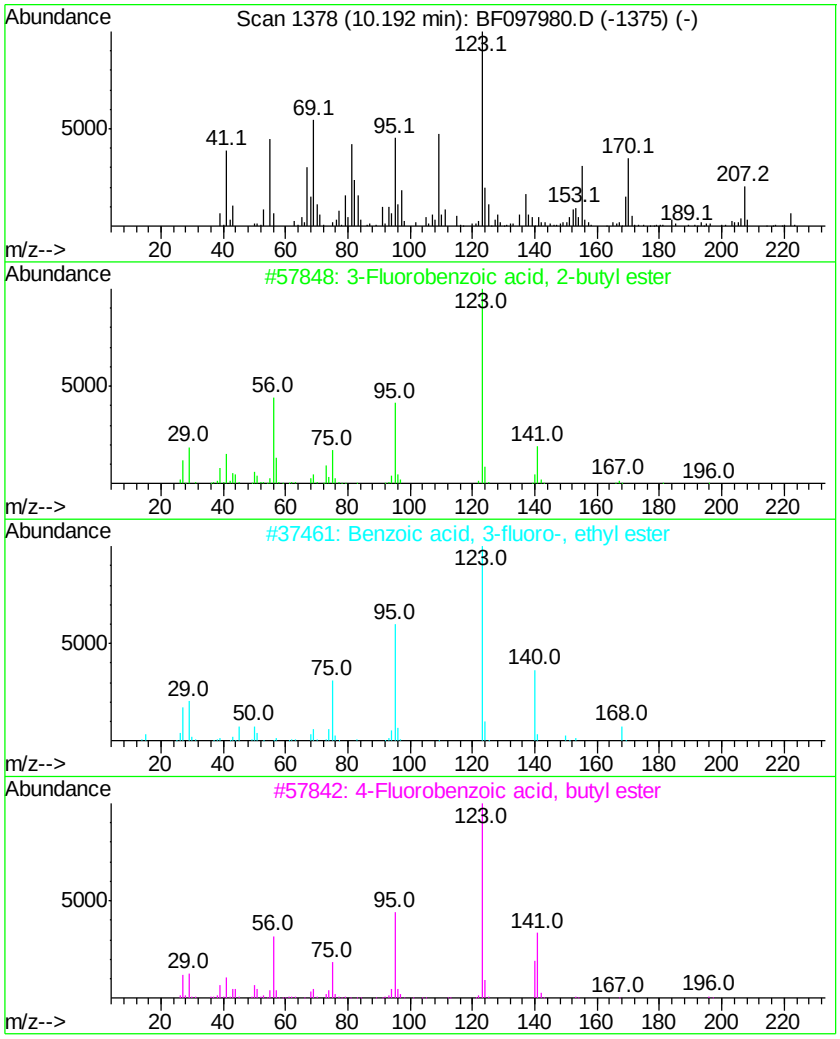
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

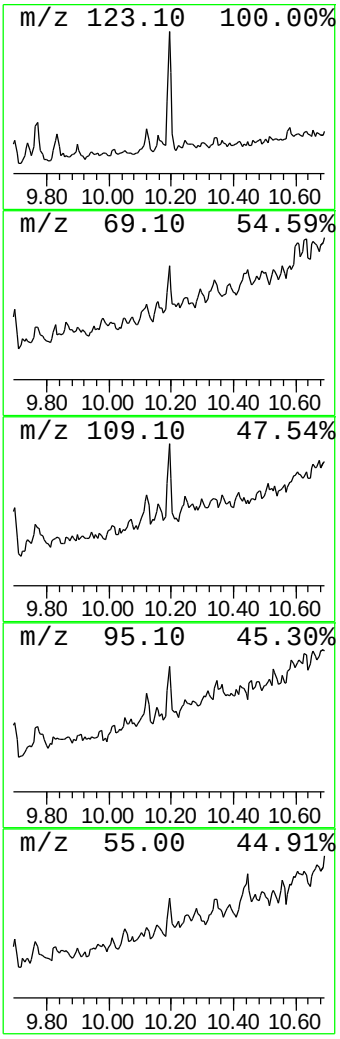
****

Peak Number 4 unknown10.19 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.19	3.43 ng	229622	Acenaphthene-d10	9.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Fluorobenzoic acid, 2-butyl ester	196	C11H13FO2	1000279-01-6	38
2	Benzoic acid, 3-fluoro-, ethyl e...	168	C9H9FO2	000451-02-5	38
3	4-Fluorobenzoic acid, butyl ester	196	C11H13FO2	003888-64-0	38
4	2,2-Dimethylocta-3,4-dienal	152	C10H16O	000590-71-6	38
5	Methyl 2-fluorobenzoate	154	C8H7FO2	000394-35-4	38





Library Search Compound Report

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Data File : BF097980.D
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Instrument : BNA_F
ClientSampleId : TR-04-082117-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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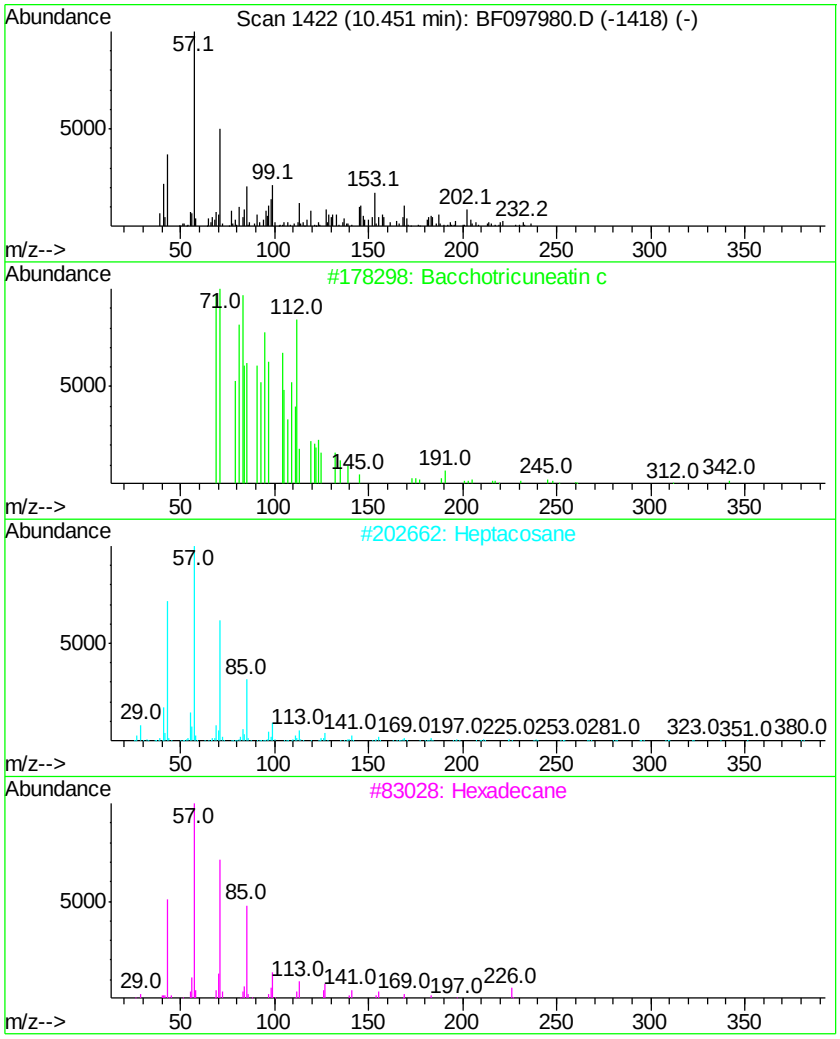
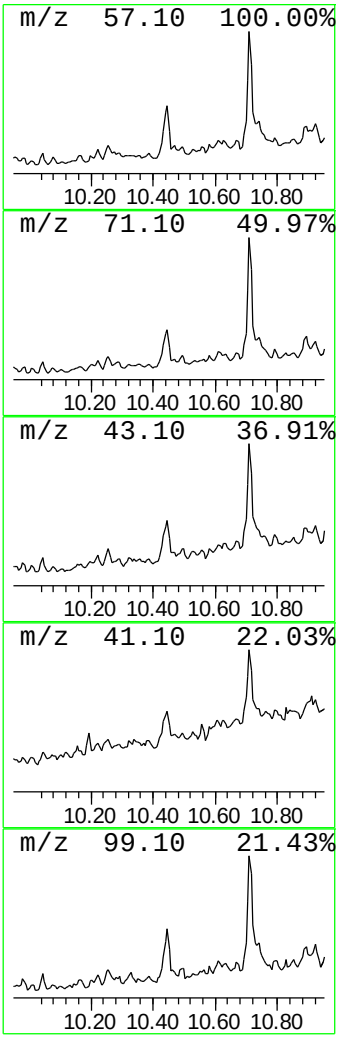
Peak Number 5 Bacchotricuneatin c Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.45	3.08 ng	206351	Acenaphthene-d10	9.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bacchotricuneatin c	342	C20H22O5	066563-30-2	95
2	Heptacosane	380	C27H56	000593-49-7	64
3	Hexadecane	226	C16H34	000544-76-3	58
4	Decane, 2-methyl-	156	C11H24	006975-98-0	58
5	Pentadecane, 2,6,10-trimethyl-	254	C18H38	003892-00-0	52





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Sample : I4908-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TR-04-082117-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.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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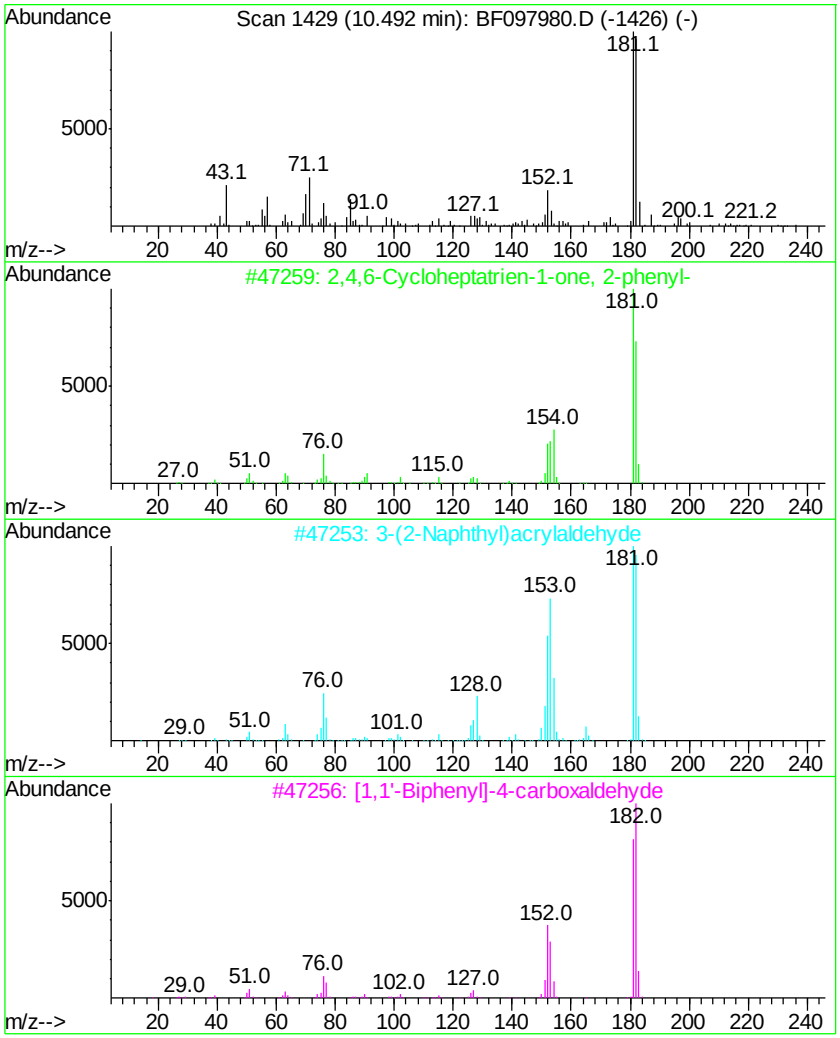
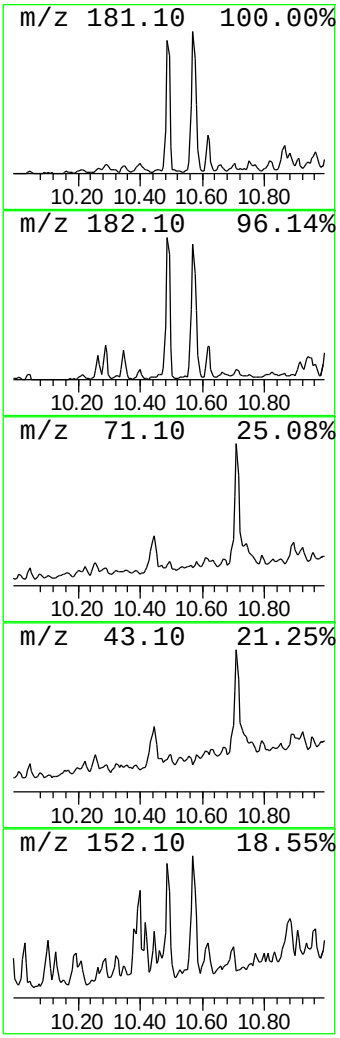
Peak Number 6 2,4,6-Cycloheptatrien-1-one... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.49	2.93 ng	196317	Acenaphthene-d10	9.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	93
2	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	90
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	90
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
5	Pyridine, 4,4'-(1,2-ethenediyl)bis-	182	C12H10N2	001135-32-6	72





Data Path : U:\HPCHEM1\BNA F\DATA\BF082217\
Data File : BF097980.D
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Operator : SJ/JU
Sample : I4908-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TR-04-082117-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

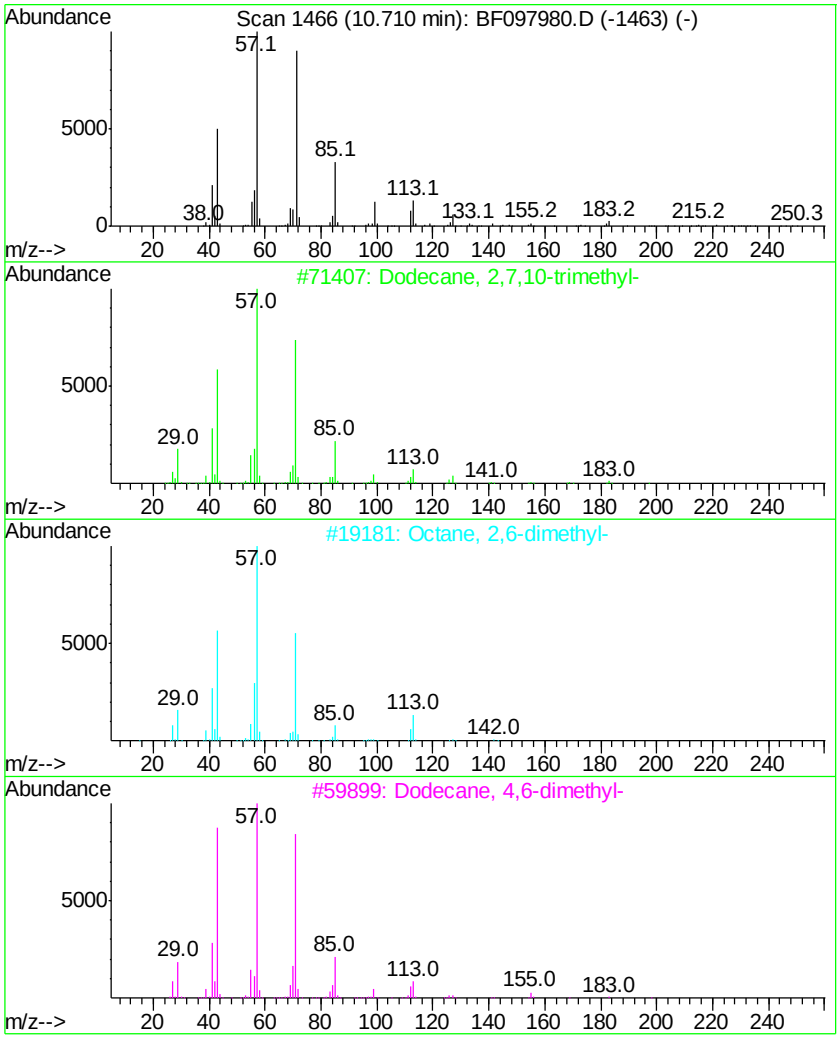
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

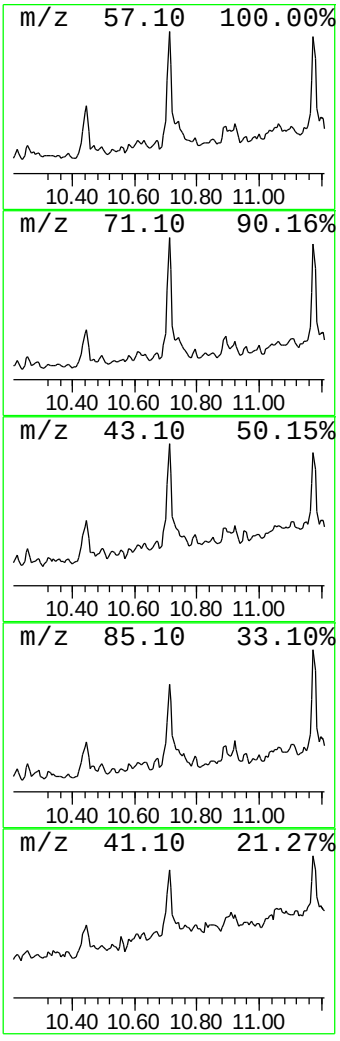
****

Peak Number 7 Dodecane, 2,7,10-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.71	13.79 ng	542098	Phenanthrene-d10	11.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	86
2	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	80
3	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	80
4	Sulfurous acid, 2-ethylhexyl non...	320	C17H36O3S	1000309-19-2	72
5	Nonane, 2,6-dimethyl-	156	C11H24	017302-28-2	72





Library Search Compound Report

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Operator : SJ/JU
Sample : I4908-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TR-04-082117-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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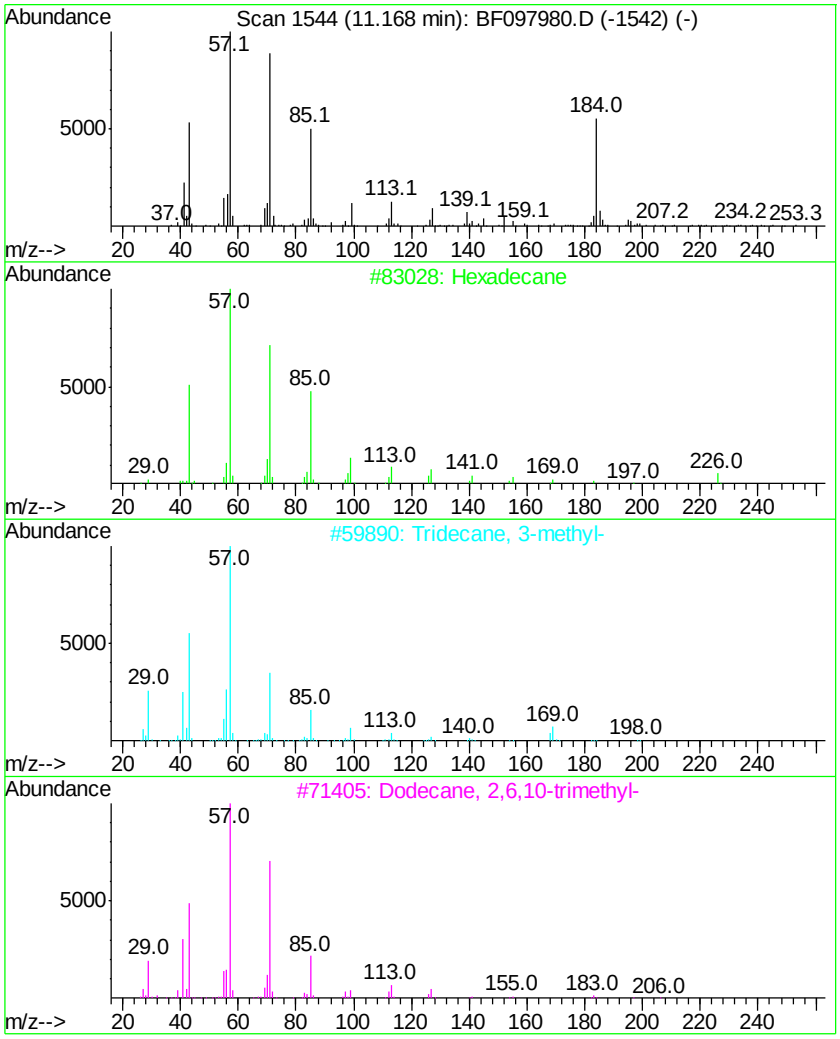
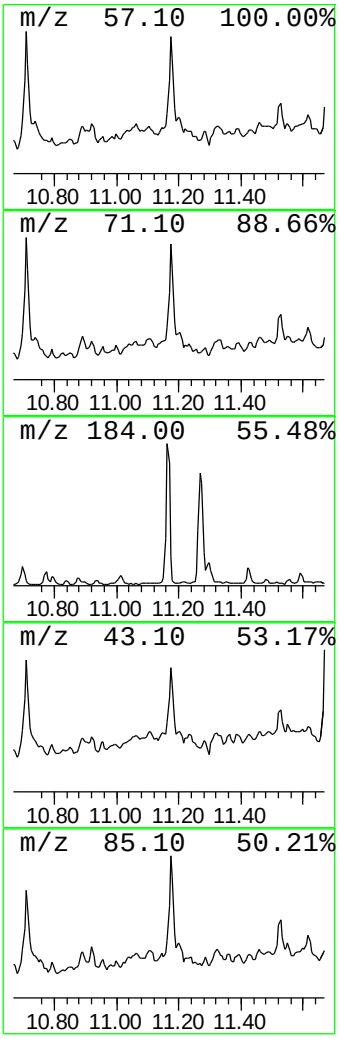
Peak Number 8 Hexadecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.17	16.54 ng	650521	Phenanthrene-d10	11.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	90
2	Tridecane, 3-methyl-	198	C14H30	006418-41-3	74
3	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	72
4	Nonane, 3,7-dimethyl-	156	C11H24	017302-32-8	64
5	Octadecane	254	C18H38	000593-45-3	64





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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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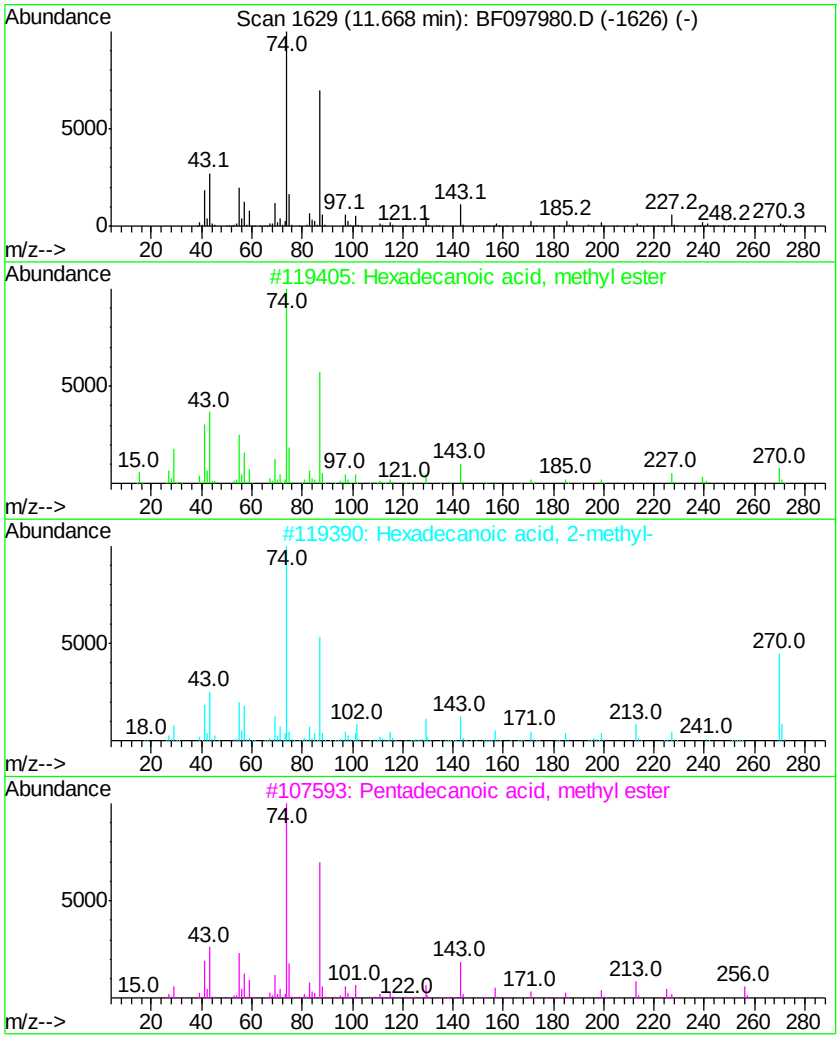
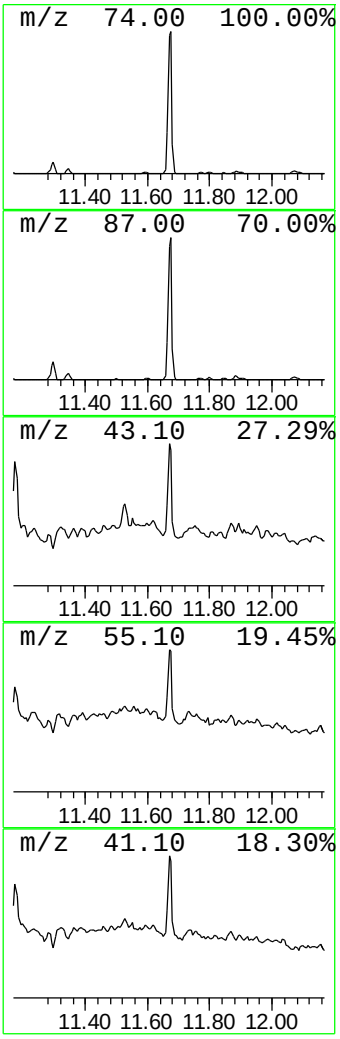
Peak Number 9 Hexadecanoic acid, methyl e... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.67	29.54 ng	1161590	Phenanthrene-d10	11.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, methyl ester	270	C17H34O2	000112-39-0	96
2	Hexadecanoic acid, 2-methyl-	270	C17H34O2	027147-71-3	90
3	Pentadecanoic acid, methyl ester	256	C16H32O2	007132-64-1	90
4	Dodecanoic acid, 10-methyl-, met...	228	C14H28O2	005129-65-7	87
5	Tridecanoic acid, methyl ester	228	C14H28O2	001731-88-0	87





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TIC Library : C:\DATABASE\NIST11.L
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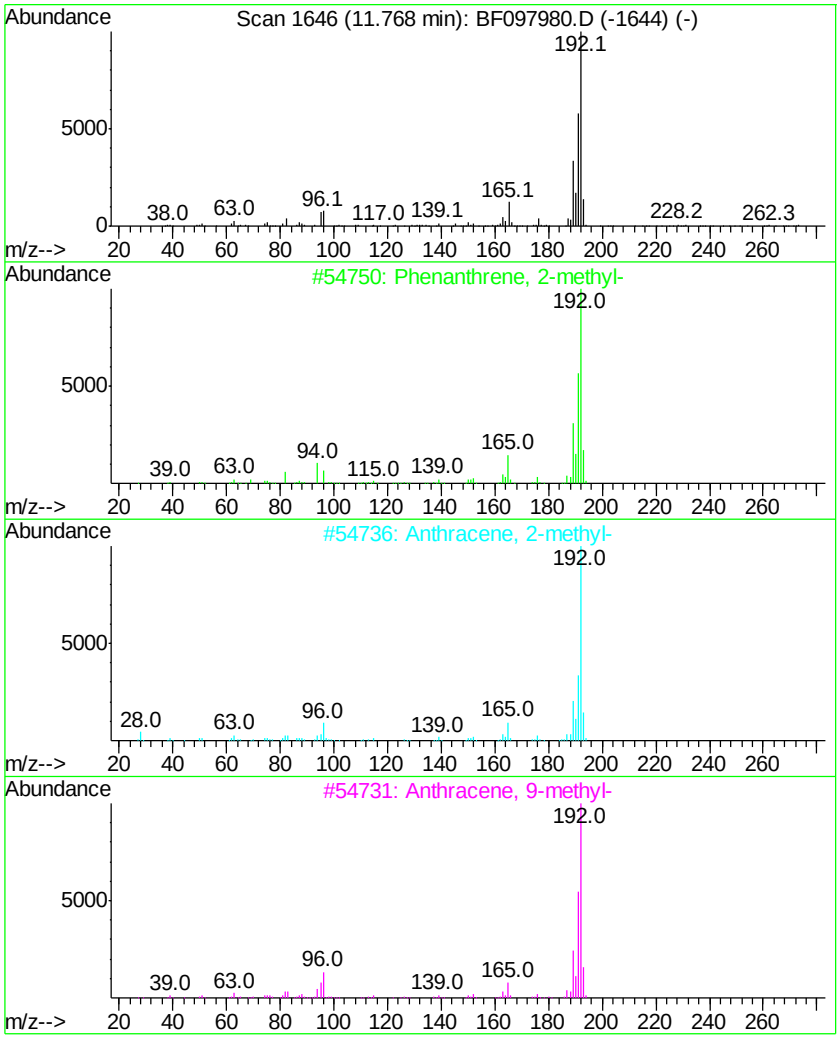
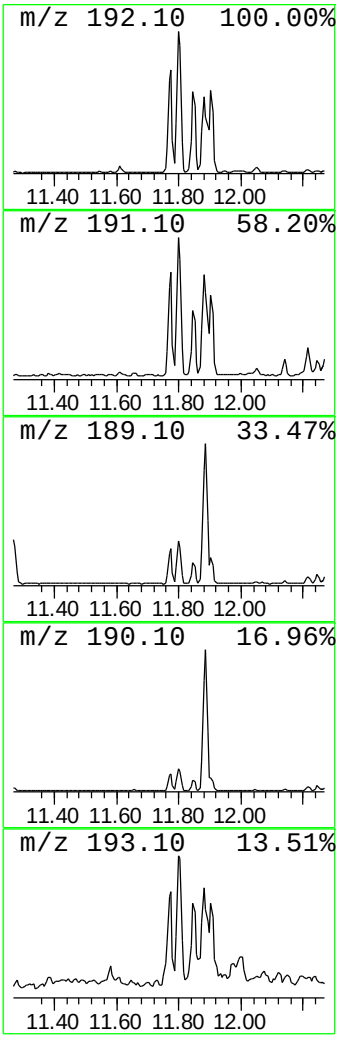
Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	7.40 ng	290940	Phenanthrene-d10	11.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





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Instrument : BNA_F
ClientSampleId : TR-04-082117-A

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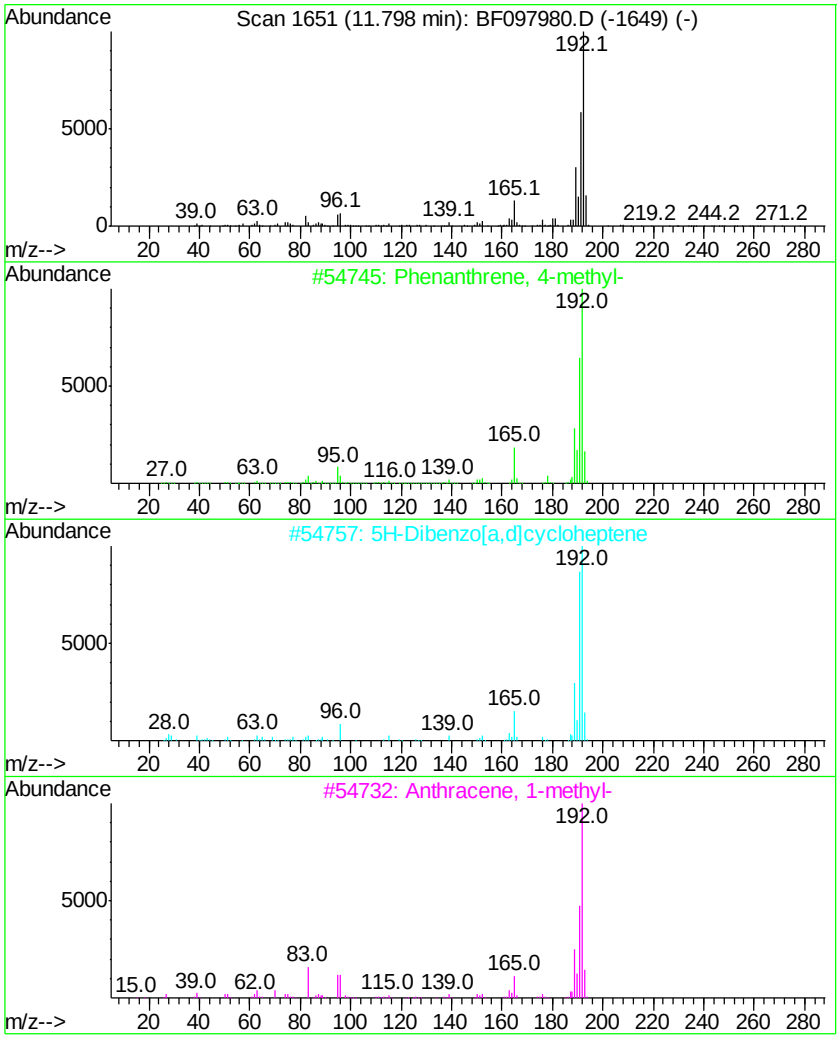
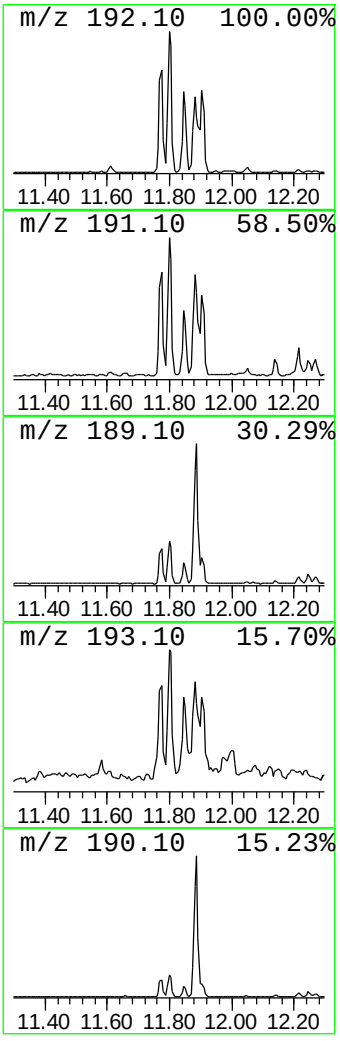
Peak Number 11 Phenanthrene, 4-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	11.72 ng	461004	Phenanthrene-d10	11.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	94
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93





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Misc :
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ClientSampleId : TR-04-082117-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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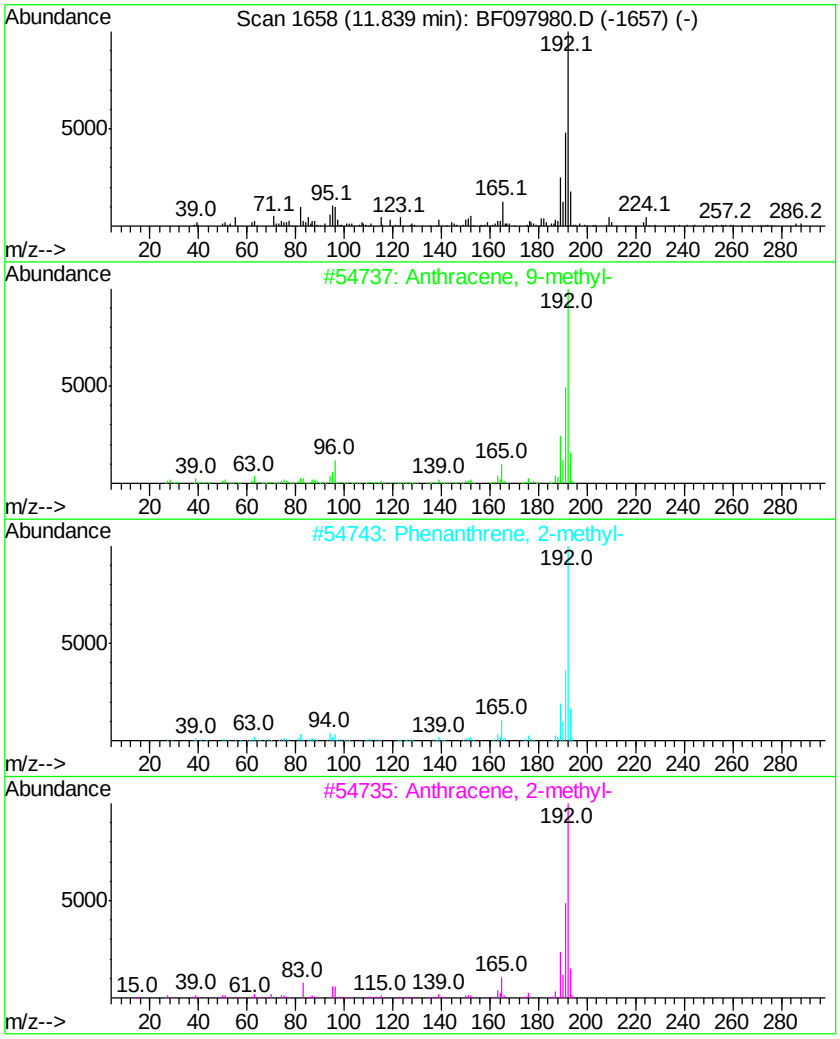
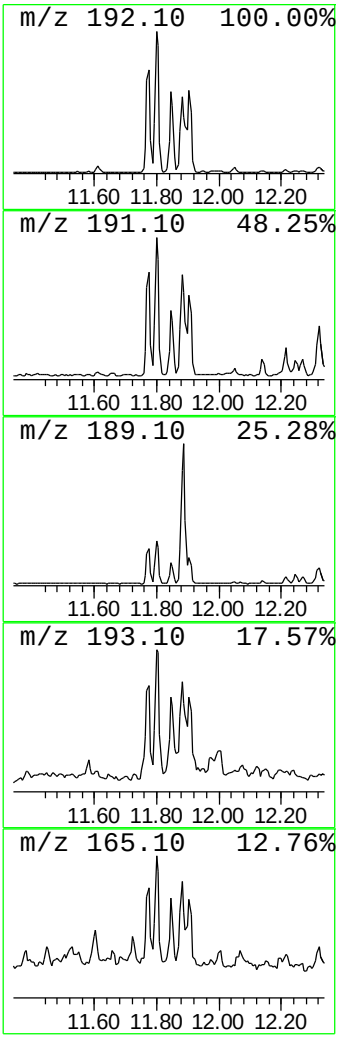
Peak Number 12 Anthracene, 9-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.84	5.48 ng	215602	Phenanthrene-d10	11.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95





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Instrument : BNA_F
ClientSampleId : TR-04-082117-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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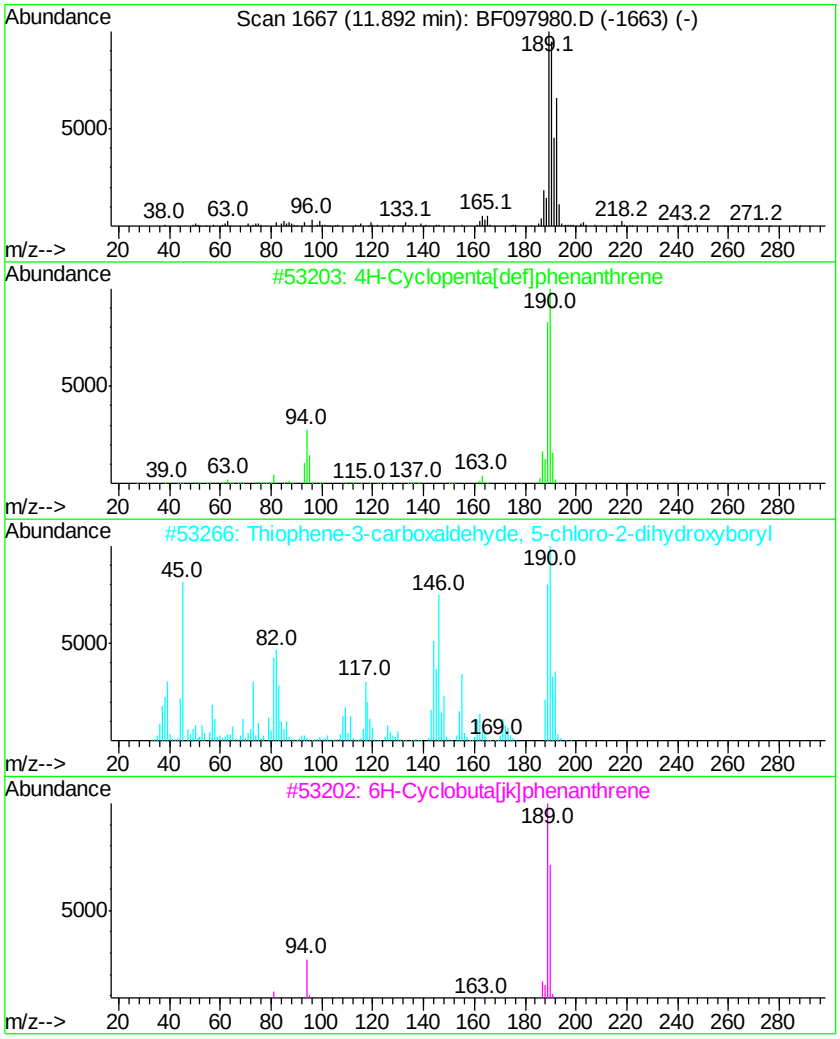
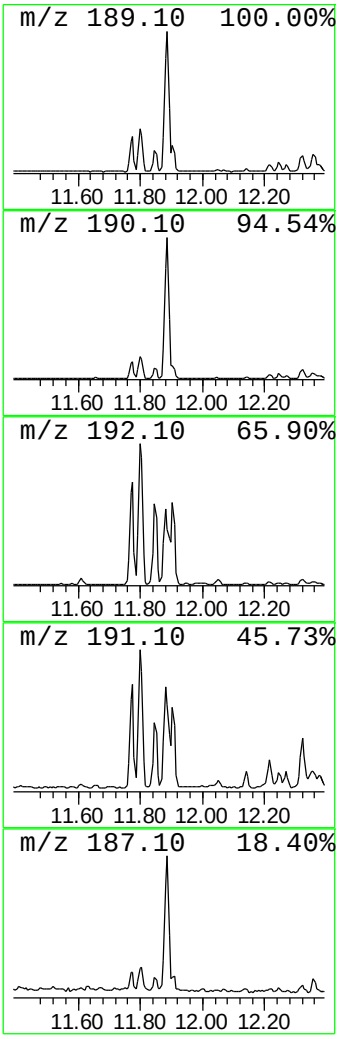
Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	12.01 ng	472113	Phenanthrene-d10	11.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	81
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40





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ClientSampleId : TR-04-082117-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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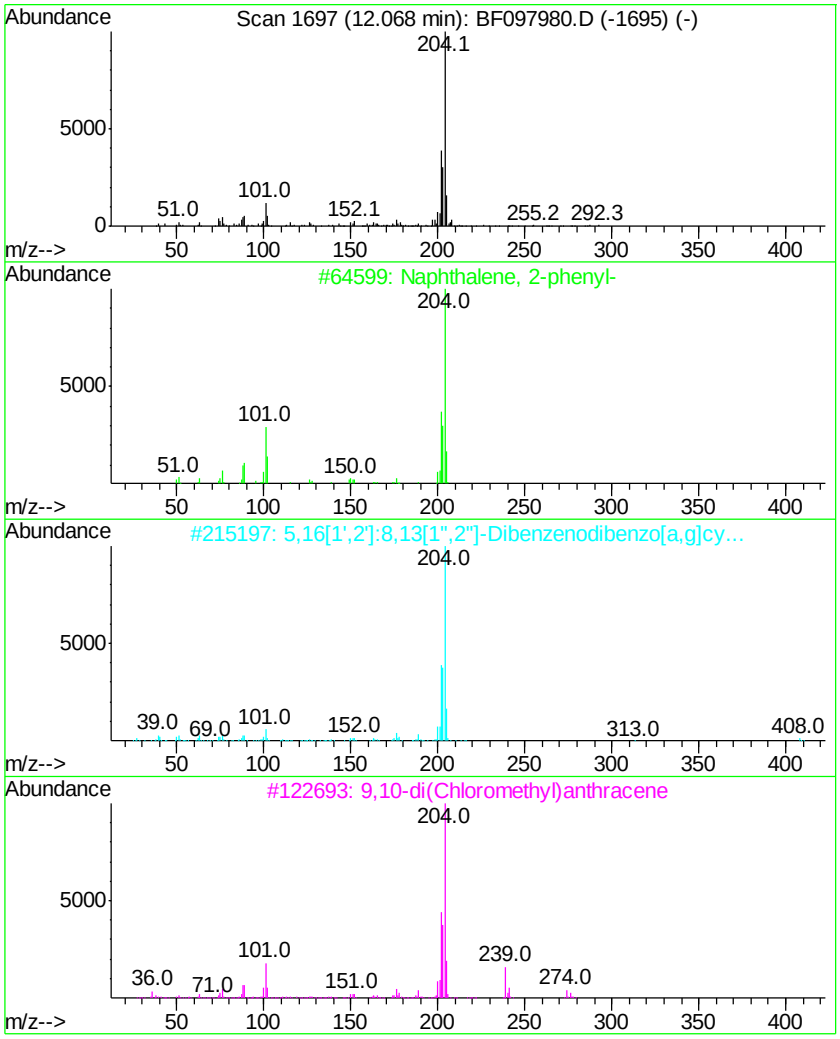
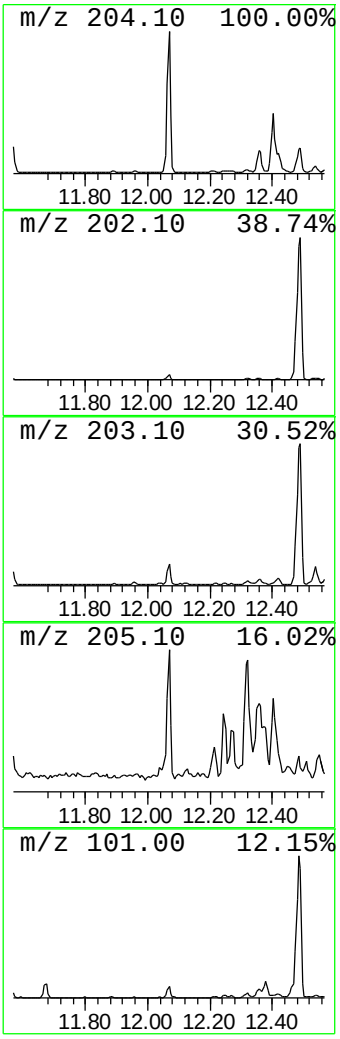
Peak Number 14 Naphthalene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	5.24 ng	206074	Phenanthrene-d10	11.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
3	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	90
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	76
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	62





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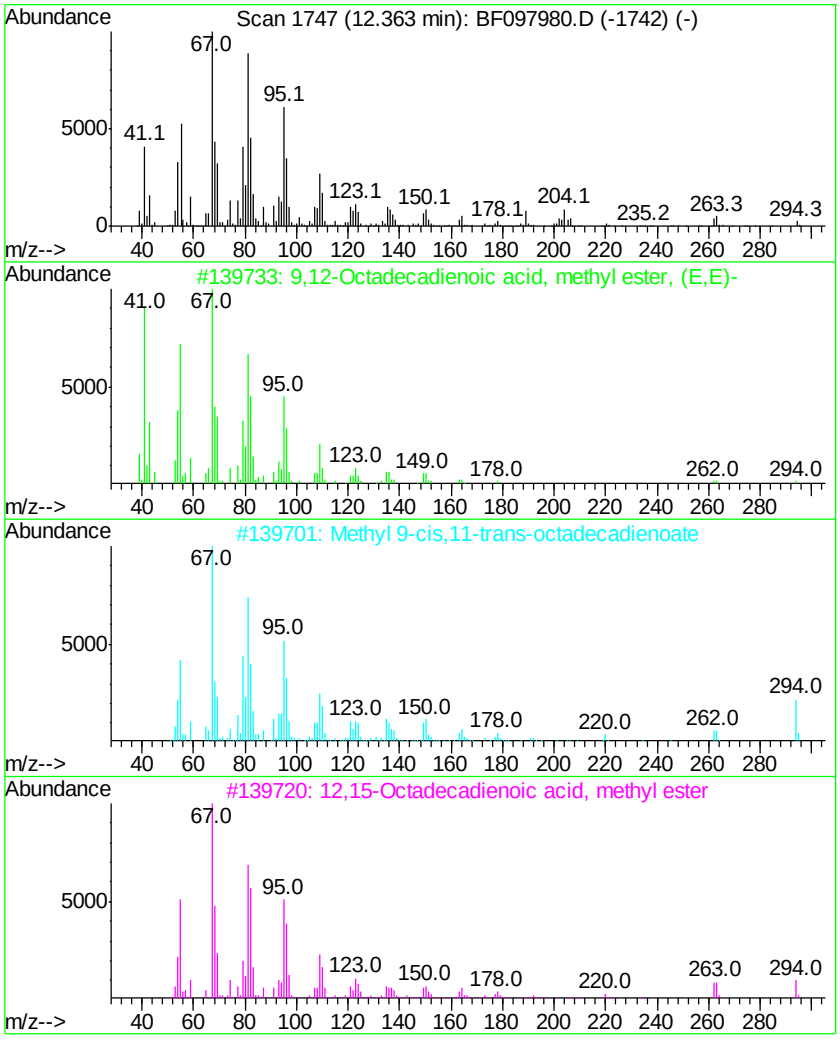
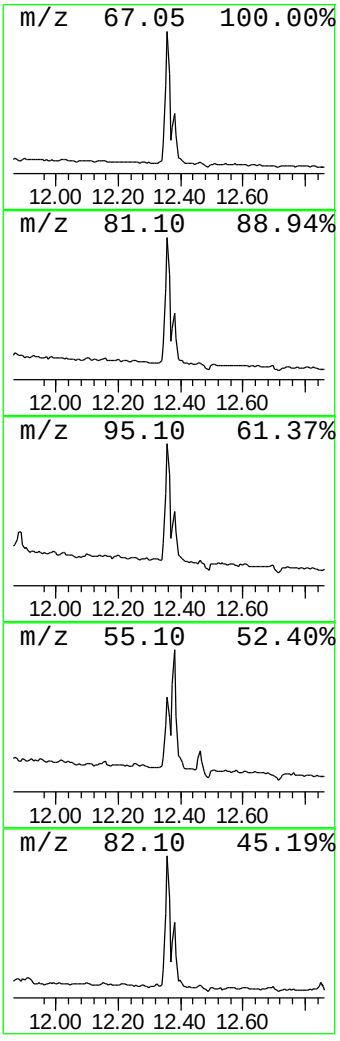
Peak Number 15 9,12-Octadecadienoic acid, ... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.36	61.23 ng	2407830	Phenanthrene-d10	11.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,12-Octadecadienoic acid, methv...	294	C19H34O2	002566-97-4	92
2	Methyl 9-cis,11-trans-octadecadi...	294	C19H34O2	1000336-44-0	90
3	12,15-Octadecadienoic acid, meth...	294	C19H34O2	057156-97-5	83
4	9,12-Octadecadienoic acid (Z,Z)-...	294	C19H34O2	000112-63-0	83
5	11,14-Octadecadienoic acid, meth...	294	C19H34O2	056554-61-1	83





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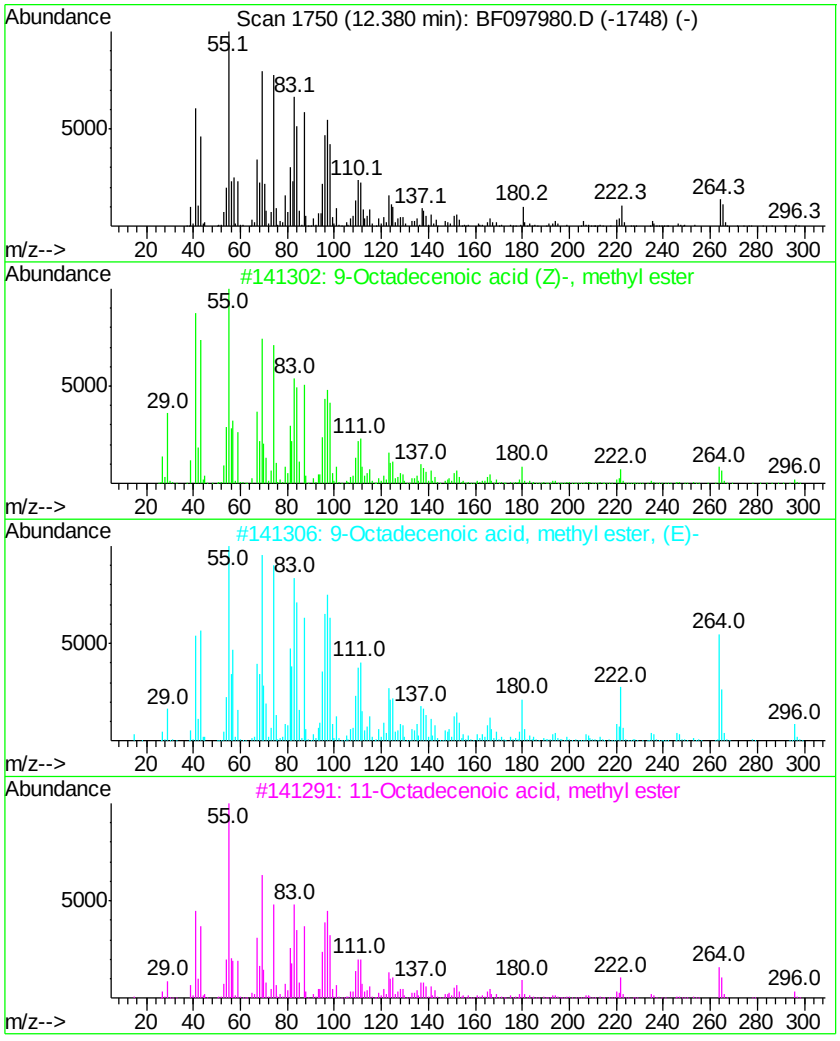
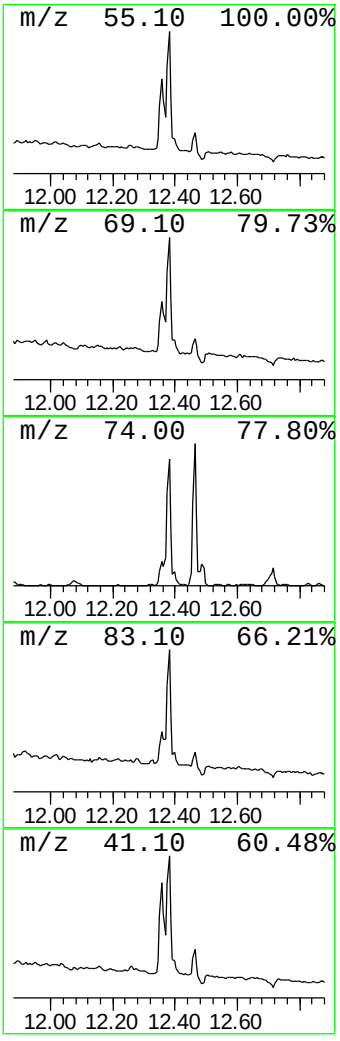
Peak Number 16 9-Octadecenoic acid (Z)-, m... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.38	52.34 ng	2058130	Phenanthrene-d10	11.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenoic acid (Z)-, methyl...	296	C19H36O2	000112-62-9	94
2	9-Octadecenoic acid, methyl este...	296	C19H36O2	001937-62-8	91
3	11-Octadecenoic acid, methyl ester	296	C19H36O2	052380-33-3	81
4	9-Octadecenoic acid, methyl ester	296	C19H36O2	002462-84-2	81
5	15-Octadecenoic acid, methyl ester	296	C19H36O2	004764-72-1	81





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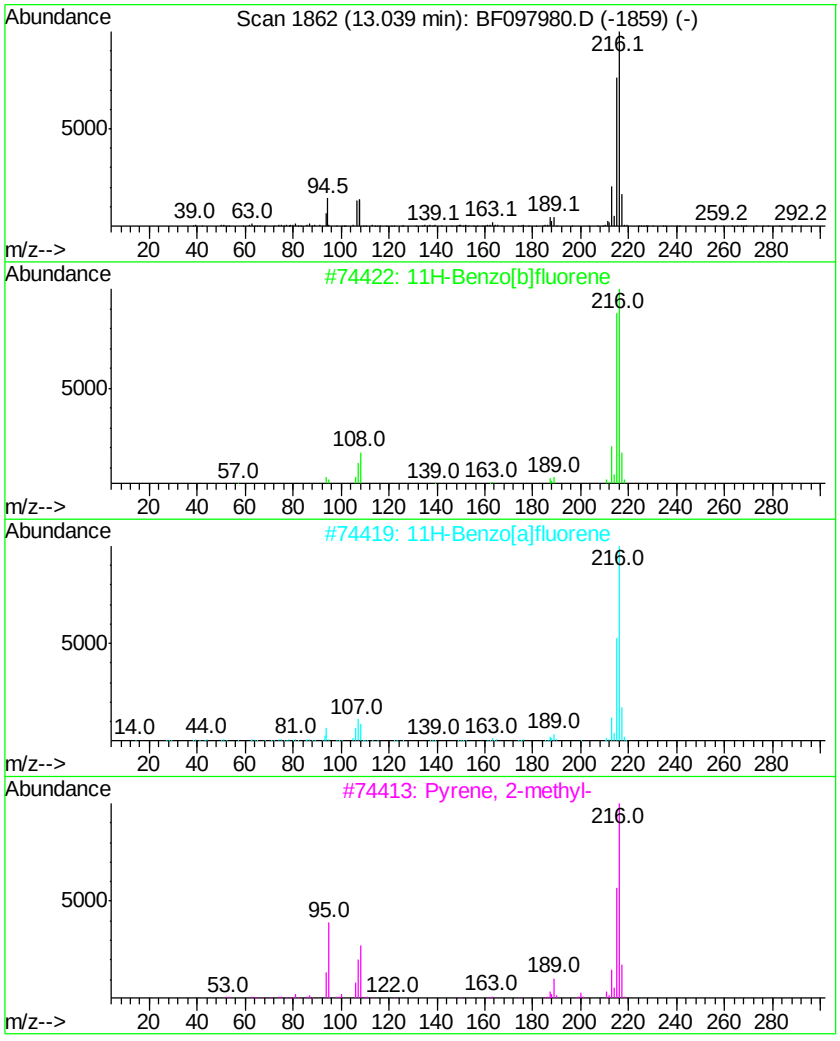
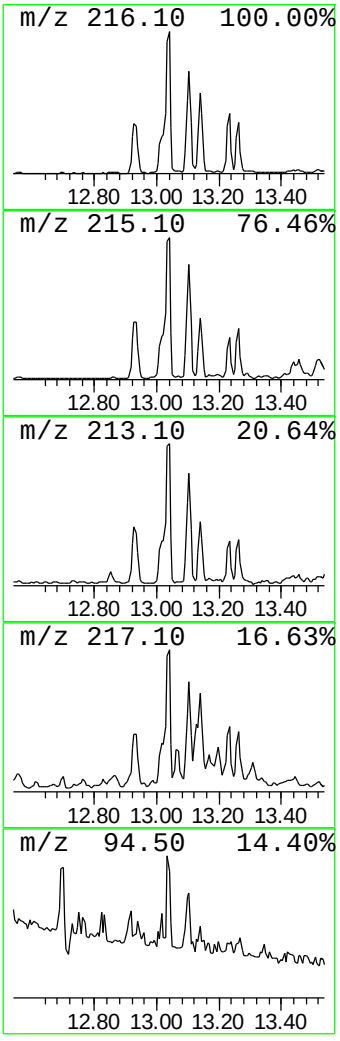
Peak Number 17 11H-Benzo[b]fluorene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.04	3.99 ng	602856	Chrysene-d12	13.91

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	83
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	74
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





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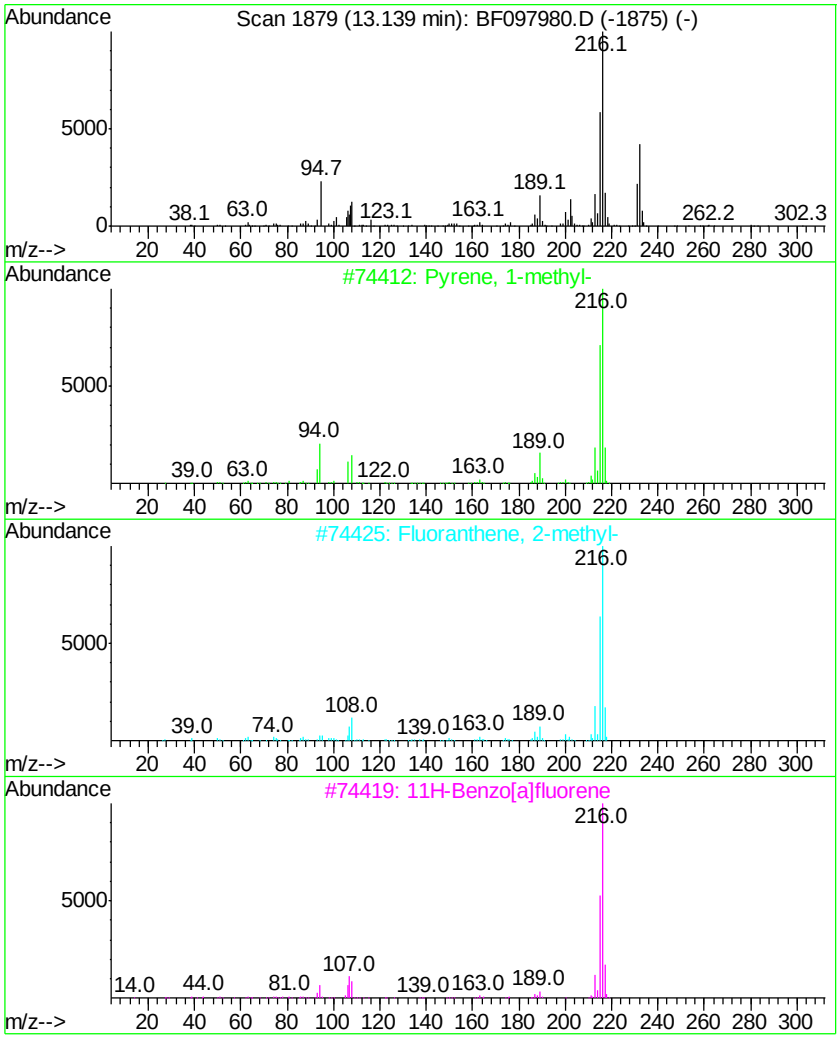
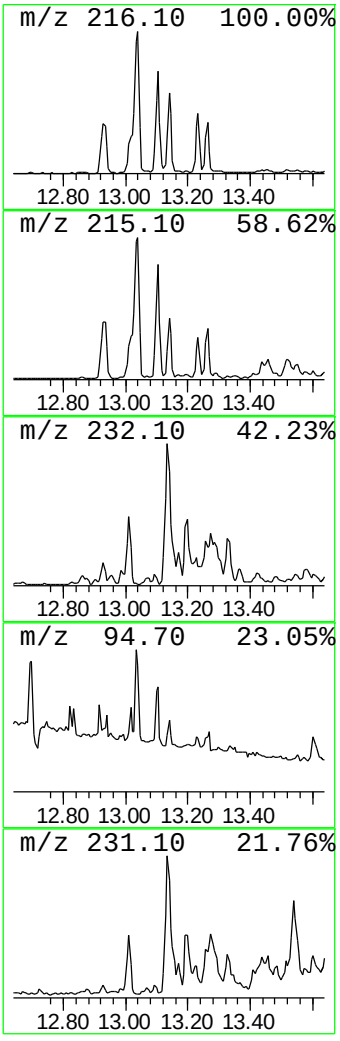
Peak Number 18 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.14	2.98 ng	450094	Chrysene-d12	13.91

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	78
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	60





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ClientSampleId : TR-04-082117-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

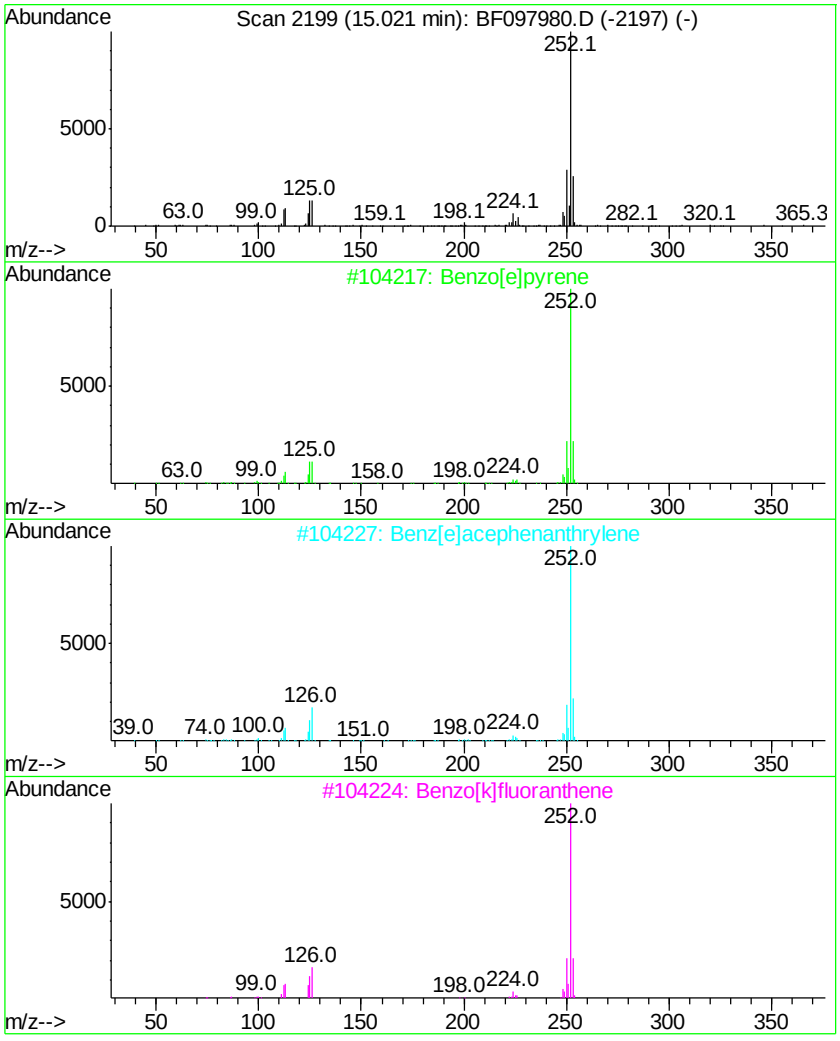
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

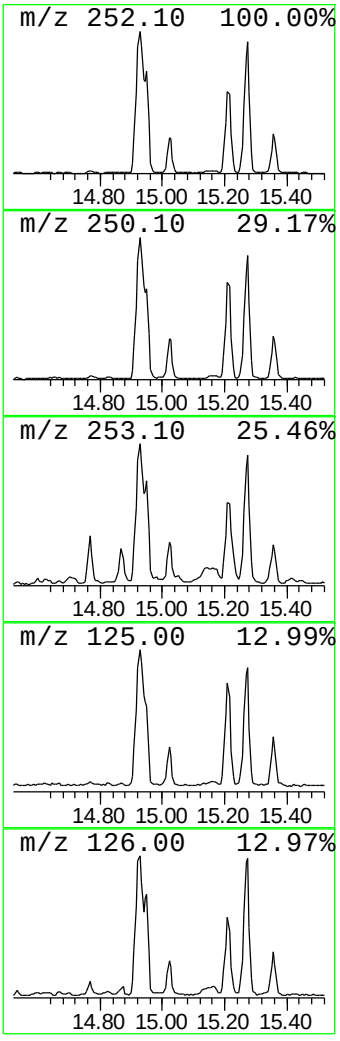
****

Peak Number 19 Benzo[e]pyrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.02	9.01 ng	273368	Perylene-d12	15.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Perylene	252	C20H12	000198-55-0	89





Tentatively Identified Compound (LSC) summary

Data Path : U:\HPCHEM1\BNA_F\DATA\BF082217\
Data File : BF097980.D
Acq On : 23 Aug 2017 3:42
Operator : SJ/JU
Sample : I4908-01 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TR-04-082117-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081517.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
unknown6.51	6.51	18.3	ng	814772	1	6.75	889984	20.0
Biphenylene	9.65	2.9	ng	193049	3	9.79	1340770	20.0
unknown10.19	10.19	3.4	ng	229622	3	9.79	1340770	20.0
Bacchotricuneatin c	10.45	3.1	ng	206351	3	9.79	1340770	20.0
2,4,6-Cycloheptat...	10.49	2.9	ng	196317	3	9.79	1340770	20.0
Dodecane, 2,7,10-...	10.71	13.8	ng	542098	4	11.27	786467	20.0
Hexadecane	11.17	16.5	ng	650521	4	11.27	786467	20.0
Hexadecanoic acid...	11.67	29.5	ng	1161590	4	11.27	786467	20.0
Phenanthrene, 2-m...	11.77	7.4	ng	290940	4	11.27	786467	20.0
Phenanthrene, 4-m...	11.80	11.7	ng	461004	4	11.27	786467	20.0
Anthracene, 9-met...	11.84	5.5	ng	215602	4	11.27	786467	20.0
4H-Cyclopenta[def...	11.89	12.0	ng	472113	4	11.27	786467	20.0
Naphthalene, 2-ph...	12.07	5.2	ng	206074	4	11.27	786467	20.0
9,12-Octadecadien...	12.36	61.2	ng	2407830	4	11.27	786467	20.0
9-Octadecenoic ac...	12.38	52.3	ng	2058130	4	11.27	786467	20.0
11H-Benzo[b]fluorene	13.04	4.0	ng	602856	5	13.91	3022440	20.0
Pyrene, 1-methyl-	13.14	3.0	ng	450094	5	13.91	3022440	20.0
Benzo[e]pyrene	15.02	9.0	ng	273368	6	15.33	606476	20.0