LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097742.D
Acq On : 16 Aug 2017 16:47
Operator : SJ/JU
Sample : I4739-01 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : S11-WC-1

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	4.328	377	381	388	rVB	141207	159946	5.61%	0.417%
2	4.963	485	489	498	rVB	536629	536889	18.83%	1.401%
3	5.375	555	559	562	rBV	802363	677013	23.74%	1.767%
4	6.392	728	732	737	rBV	819297	733184	25.71%	1.913%
5	6.539	753	757	760	rBV	905702	721307	25.29%	1.882%
6	6.775	794	797	801	rBV	990099	869844	30.50%	2.270%
7	6.934	820	824	827	rVB	631405	536503	18.81%	1.400%
8	7.334	886	892	895	rBV	550069	431599	15.13%	1.126%
9	8.063	1011	1016	1018	rBV	1306353	1175386	41.22%	3.067%
10	9.133	1194	1198	1202	rBV	975333	789178	27.67%	2.059%
11	9.533	1262	1266	1270	rVB	99623	91666	3.21%	0.239%
12	9.675	1284	1290	1293	rBV	99802	91553	3.21%	0.239%
13	9.816	1308	1314	1317	rBV	1345432	1224339	42.93%	3.195%
14	9.845	1317	1319	1322	rVB	189115	138613	4.86%	0.362%
15	10.016	1345	1348	1351	rVB	106386	83624	2.93%	0.218%
16	10.357	1403	1406	1409	rBV2	141020	114510	4.02%	0.299%
17	10.516	1430	1433	1438	rVB2	68280	71727	2.52%	0.187%
18	10.592	1442	1446	1451	rVV2	508352	493440	17.30%	1.288%
19	10.722	1463	1468	1476	rVB4	80974	102135	3.58%	0.267%
20	11.033	1516	1521	1523	rBV3	51835	66243	2.32%	0.173%
21	11.098	1529	1532	1537	rVV	137670	125617	4.40%	0.328%
22	11.145	1537	1540	1543	rVV2	58011	75331	2.64%	0.197%
23	11.192	1546	1548	1554	rVB	101553	99835	3.50%	0.261%
24	11.298	1561	1566	1568	rBV	1213685	1249354	43.81%	3.260%
25	11.322	1568	1570	1573	rVV	2073518	1584482	55.56%	4.135%
26	11.369	1573	1578	1581	rVB	459398	390073	13.68%	1.018%
27	11.522	1599	1604	1607	rBV2	155501	155974	5.47%	0.407%
28	11.598	1614	1617	1619	rVV2	111010	105184	3.69%	0.274%
29	11.627	1619	1622	1625	rVB3	73239	63391	2.22%	0.165%
30	11.798	1645	1651	1653	rBV	384062	356577	12.50%	0.930%
31	11.821	1653	1655	1660	rVB	471046	431673	15.14%	1.126%
32	11.869	1660	1663	1666	rBV	175208	171017	6.00%	0.446%
33	11.904	1666	1669	1672	rBV2	482431	560789	19.66%	1.463%
34	11.927	1672	1673	1677	rVB	283136	206217	7.23%	0.538%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097742.D
Acq On : 16 Aug 2017 16:47
Operator : SJ/JU
Sample : I4739-01 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : S11-WC-1

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

35	12.092	1698	1701	1703	rBV	274756	232903	8.17%	0.608%
36	12.110	1703	1704	1708	rVB2	237322	189635	6.65%	0.495%
37	12.239	1721	1726	1729	rBV	148822	185654	6.51%	0.484%
38	12.269	1729	1731	1733	rBV	81395	63470	2.23%	0.166%
39	12.292	1733	1735	1738	rVB	103624	88185	3.09%	0.230%
40	12.345	1738	1744	1747	rBV	311843	344548	12.08%	0.899%
41	12.380	1747	1750	1752	rVV	119130	154077	5.40%	0.402%
42	12.404	1752	1754	1756	rVV2	108236	84612	2.97%	0.221%
43	12.427	1756	1758	1763	rVB2	280983	277166	9.72%	0.723%
44	12.510	1763	1772	1775	rBV	2697259	2490905	87.35%	6.500%
45	12.557	1775	1780	1785	rBV4	64239	109242	3.83%	0.285%
46	12.639	1790	1794	1795	rBV2	101529	122538	4.30%	0.320%
47	12.657	1795	1797	1801	rVV	92942	111939	3.93%	0.292%
48	12.739	1805	1811	1814	rVV	2561305	2851790	100.00%	7.442%
49	12.780	1814	1818	1824	rVB3	116139	248572	8.72%	0.649%
50	12.851	1827	1830	1832	rVV2	143226	135736	4.76%	0.354%
51	12.880	1832	1835	1842	rVB2	780193	766687	26.88%	2.001%
52	12.951	1842	1847	1850	rBV3	261749	385170	13.51%	1.005%
53	12.980	1850	1852	1855	rVV2	77052	75363	2.64%	0.197%
54	13.010	1855	1857	1859	rVV2	62878	74433	2.61%	0.194%
55	13.039	1859	1862	1863	rVV2	211078	233748	8.20%	0.610%
56	13.057	1863	1865	1869	rVB	220058	239548	8.40%	0.625%
57	13.127	1874	1877	1880	rVB	169385	134878	4.73%	0.352%
58	13.163	1880	1883	1886	rBV	364940	352511	12.36%	0.920%
59	13.192	1886	1888	1891	rVB2	74434	64376	2.26%	0.168%
60	13.257	1896	1899	1902	rVV	223645	175399	6.15%	0.458%
61	13.286	1902	1904	1908	rVB	205302	173710	6.09%	0.453%
62	13.363	1914	1917	1923	rVB6	48312	69976	2.45%	0.183%
63	13.468	1932	1935	1940	rVB4	114574	129406	4.54%	0.338%
64	13.563	1948	1951	1956	rVB	289661	288356	10.11%	0.752%
65	13.674	1966	1970	1973	rBV2	215762	309433	10.85%	0.807%
66	13.710	1973	1976	1978	rVV	168301	128709	4.51%	0.336%
67	13.727	1978	1979	1984	rVB2	136643	130498	4.58%	0.341%
68	13.774	1984	1987	1989	rBV	198379	175676	6.16%	0.458%
69	13.845	1997	1999	2005	rVB3	40834	73124	2.56%	0.191%
70	13.927	2005	2013	2016	rBV3	1383945	2134451	74.85%	5.570%
71	13.957	2016	2018	2025	rVB	1117522	987183	34.62%	2.576%

LSC Area Percent Report

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Acq On : 16 Aug 2017 16:47
Operator : SJ/JU
Sample : I4739-01 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : S11-WC-1

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

72	14.033	2029	2031	2033	rVB	94888	66309	2.33%	0.173%
73	14.110	2042	2044	2047	rVB2	123919	125338	4.40%	0.327%
74	14.151	2047	2051	2054	rVV2	85761	113109	3.97%	0.295%
75	14.280	2071	2073	2075	rBV	82800	78378	2.75%	0.205%
76	14.315	2075	2079	2082	rVV	265456	266504	9.35%	0.695%
77	14.351	2082	2085	2088	rVB2	164195	150566	5.28%	0.393%
78	14.410	2088	2095	2098	rBV4	106657	199320	6.99%	0.520%
79	14.610	2126	2129	2132	rVV3	82126	87924	3.08%	0.229%
80	14.780	2154	2158	2159	rBV2	99821	114535	4.02%	0.299%
81	14.862	2168	2172	2175	rBV2	88329	99129	3.48%	0.259%
82	14.951	2182	2187	2190	rBV2	906986	1410018	49.44%	3.679%
83	15.051	2201	2204	2208	rVB	227165	226776	7.95%	0.592%
84	15.157	2216	2222	2225	rBV5	62896	122036	4.28%	0.318%
85	15.245	2232	2237	2242	rVB	590093	772903	27.10%	2.017%
86	15.304	2242	2247	2252	rVB	854700	1019573	35.75%	2.661%
87	15.362	2252	2257	2260	rBV	589441	741609	26.01%	1.935%
88	15.392	2260	2262	2272	rVB2	264561	351118	12.31%	0.916%
89	15.521	2278	2284	2287	rBV4	53182	112088	3.93%	0.292%
90	15.833	2331	2337	2338	rBV4	44569	78769	2.76%	0.206%
91	15.898	2345	2348	2355	rVB6	52891	106146	3.72%	0.277%
92	16.239	2402	2406	2412	rVB3	55852	107741	3.78%	0.281%
93	16.598	2459	2467	2475	rBV3	99350	260956	9.15%	0.681%
94	16.756	2488	2494	2502	rVB2	414010	819065	28.72%	2.137%
95	16.927	2519	2523	2528	rVB	74875	111061	3.89%	0.290%
96	16.980	2528	2532	2537	rBV	67232	119894	4.20%	0.313%
97	17.174	2559	2565	2577	rVB	335593	702881	24.65%	1.834%
98	17.392	2597	2602	2608	rBV2	65100	131506	4.61%	0.343%
99	18.280	2746	2753	2762	rBV2	23004	70507	2.47%	0.184%
100	19.309	2915	2928	2944	rVB3	61752	278404	9.76%	0.726%

Sum of corrected areas: 38321983

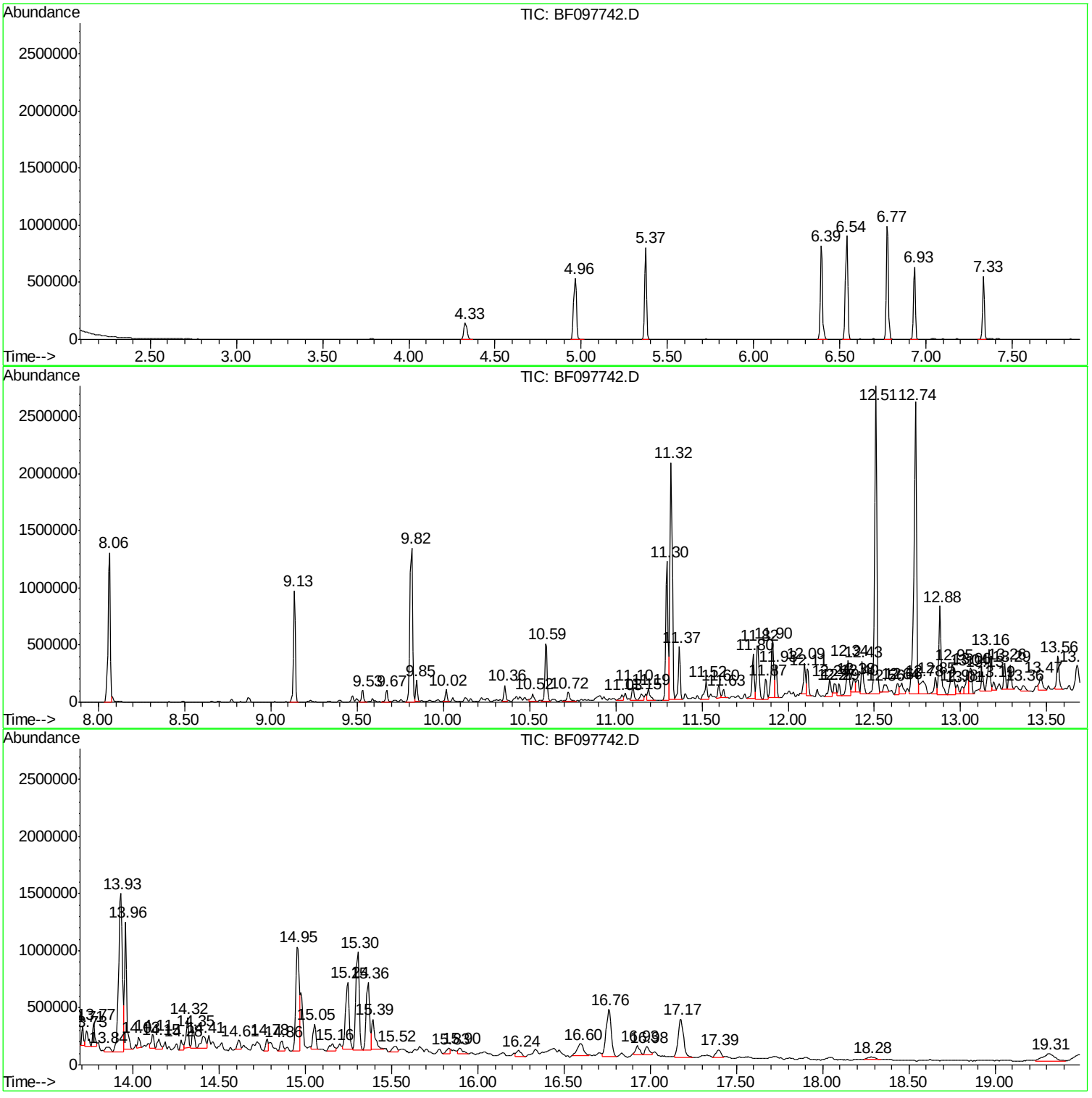
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097742.D
Acq On : 16 Aug 2017 16:47
Operator : SJ/JU
Sample : I4739-01 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : S11-WC-1

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097742.D
Acq On : 16 Aug 2017 16:47
Operator : SJ/JU
Sample : I4739-01 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : S11-WC-1

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

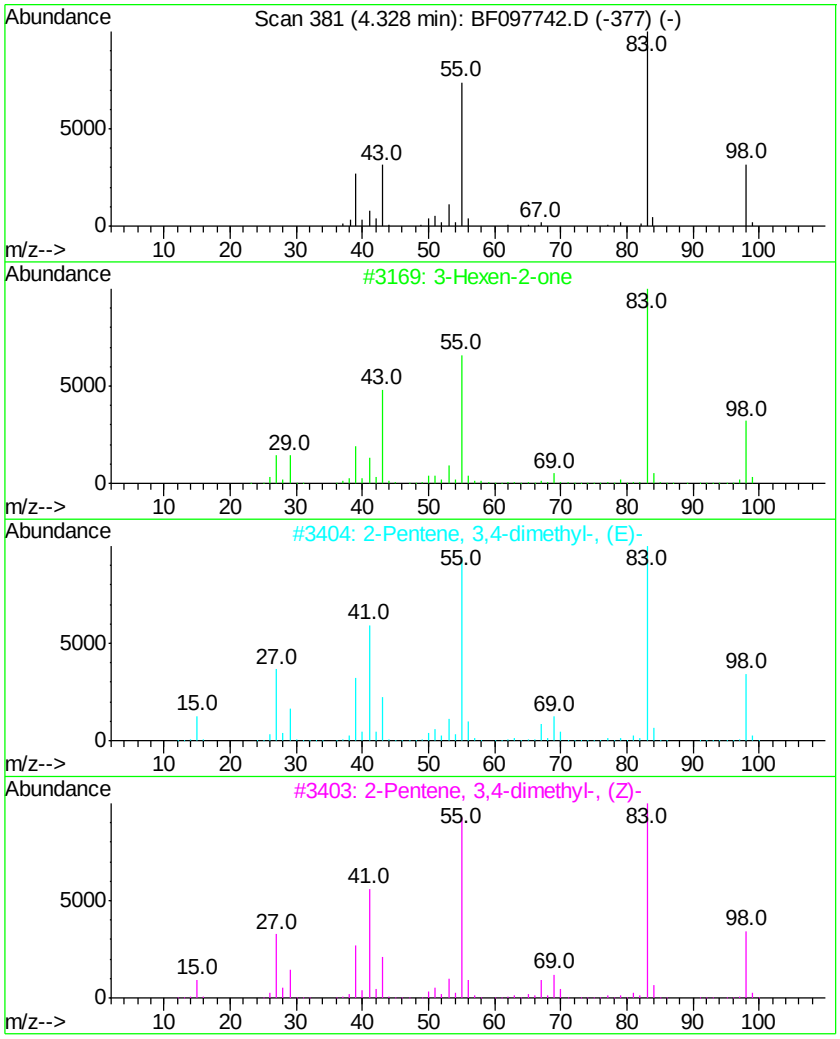
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

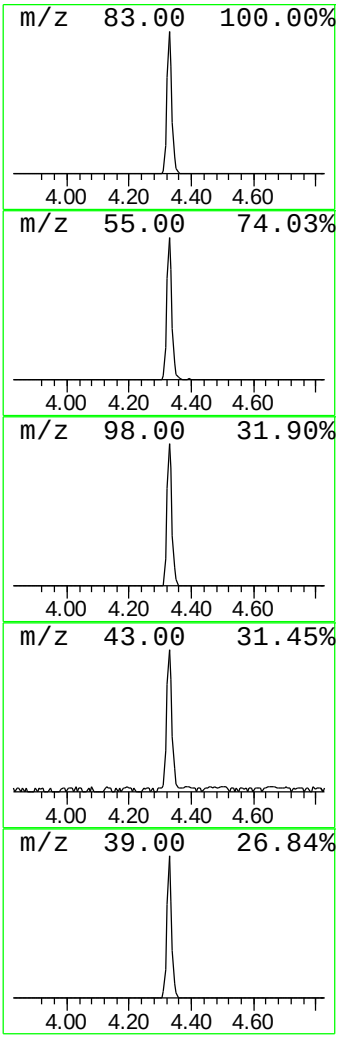
****

Peak Number 1 3-Hexen-2-one Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.33	3.68 ng	159946	1,4-Dichlorobenzene-d4	6.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexen-2-one	98	C6H10O	000763-93-9	91
2	2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	90
3	2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	86
4	2-Pentene, 2,4-dimethyl-	98	C7H14	000625-65-0	80
5	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	78





Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097742.D
Acq On : 16 Aug 2017 16:47
Operator : SJ/JU
Sample : I4739-01 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : S11-WC-1

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

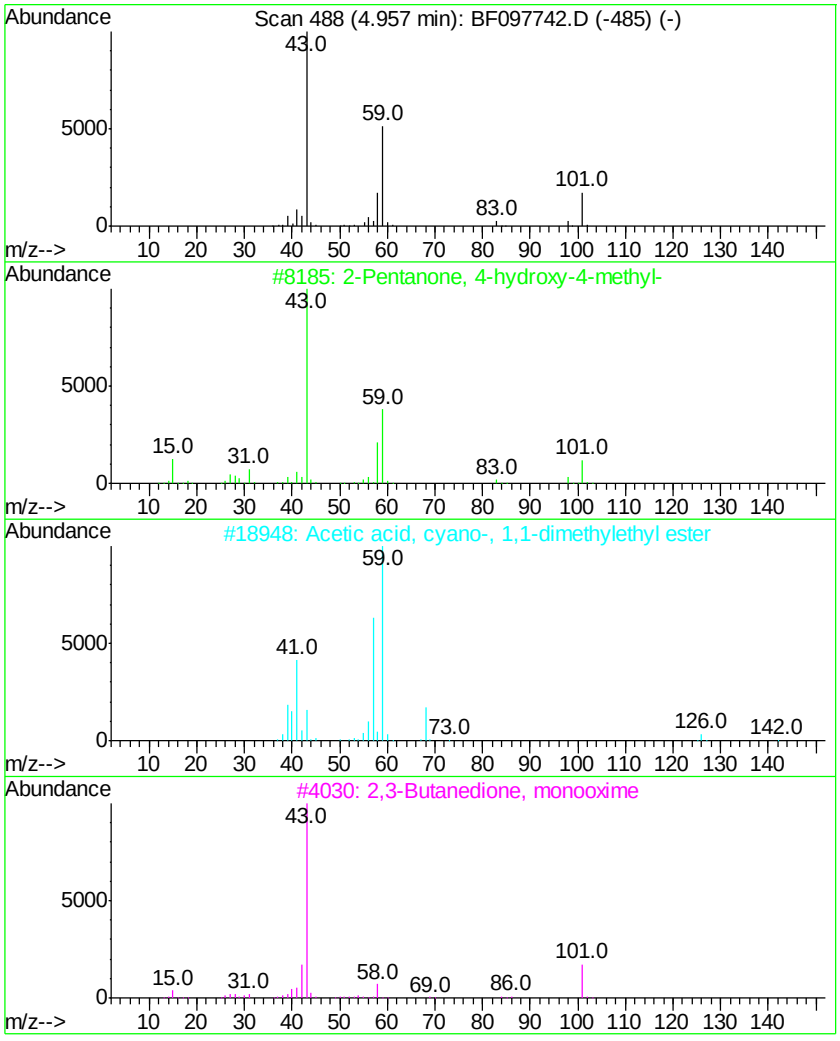
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

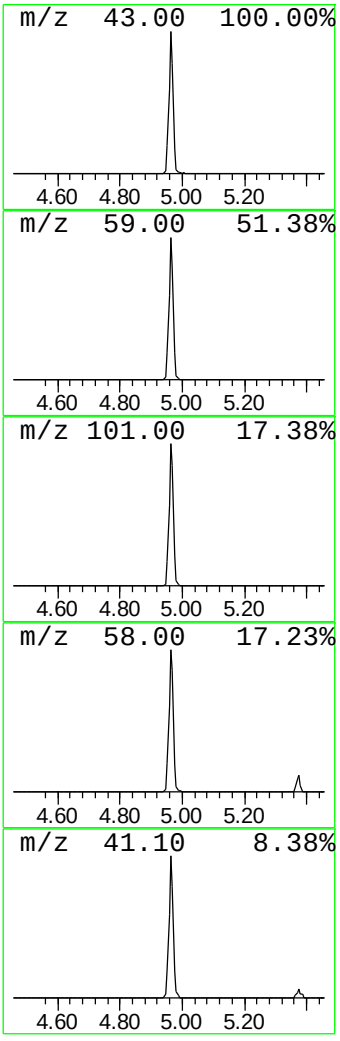
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.96	12.34 ng	536889	1,4-Dichlorobenzene-d4	6.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097742.D
Acq On : 16 Aug 2017 16:47
Operator : SJ/JU
Sample : I4739-01 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : S11-WC-1

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

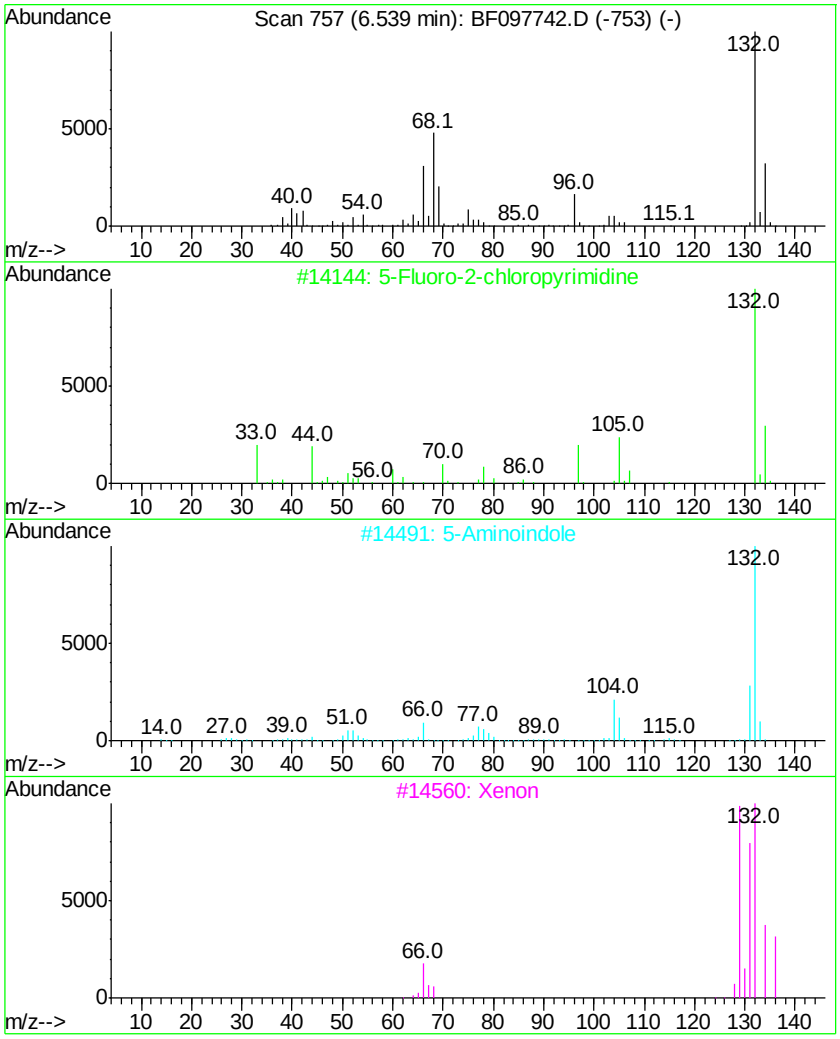
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

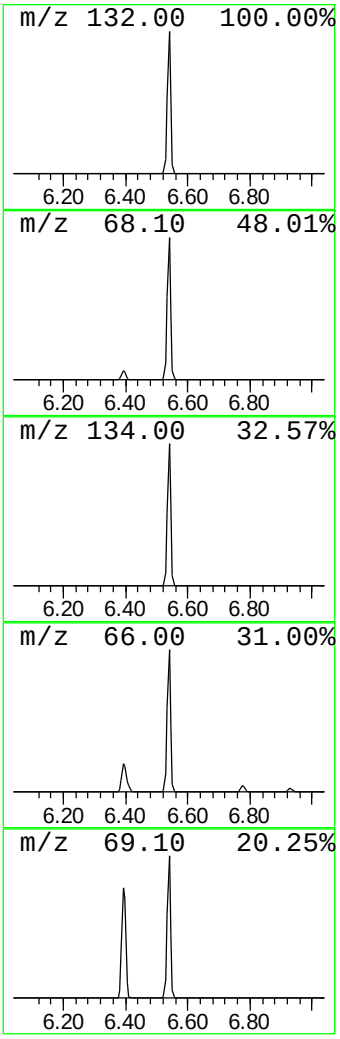
****

Peak Number 3 unknown6.54 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.54	16.58 ng	721307	1,4-Dichlorobenzene-d4	6.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
2	5-Aminoindole	132	C8H8N2	005192-03-0	10
3	Xenon	132	Xe	007440-63-3	9
4	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9
5	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097742.D
Acq On : 16 Aug 2017 16:47
Operator : SJ/JU
Sample : I4739-01 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : S11-WC-1

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

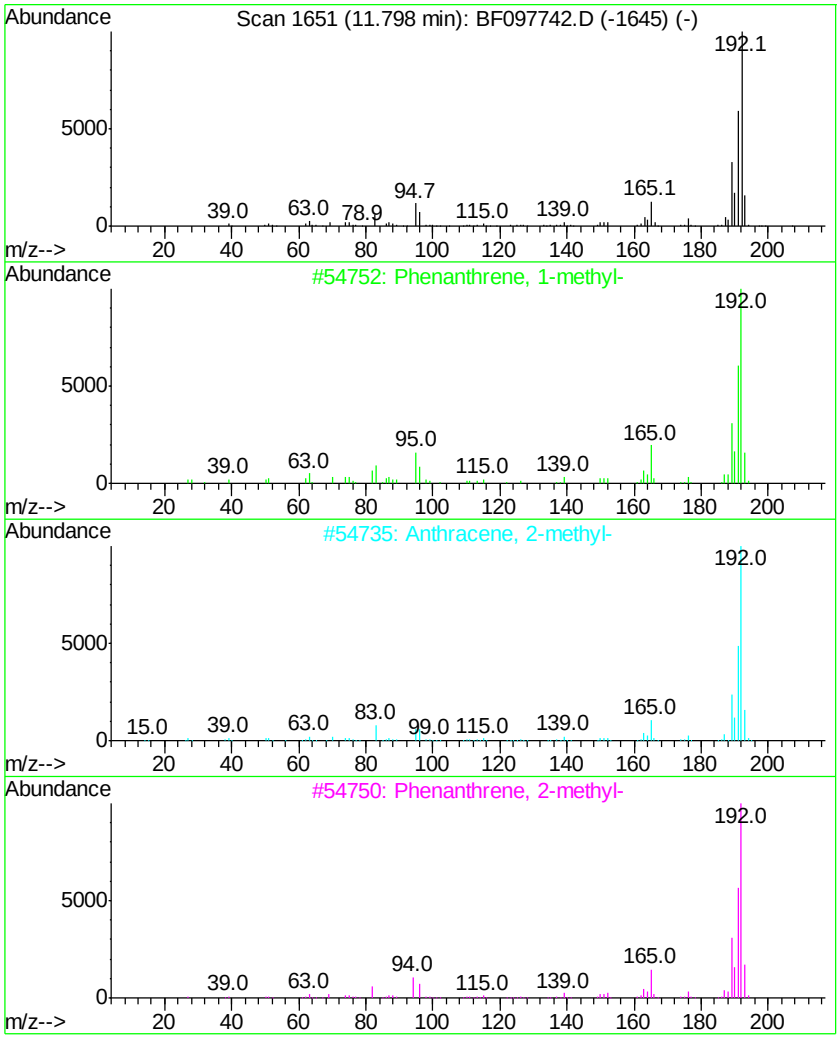
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

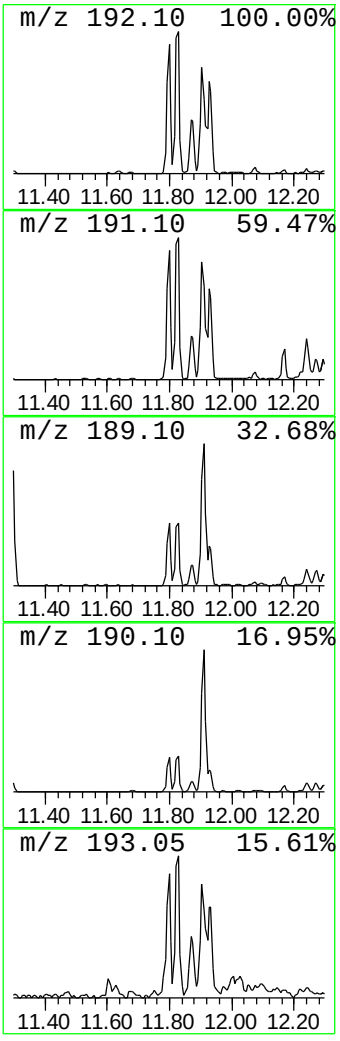
****

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	5.71 ng	356577	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097742.D
Acq On : 16 Aug 2017 16:47
Operator : SJ/JU
Sample : I4739-01 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : S11-WC-1

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

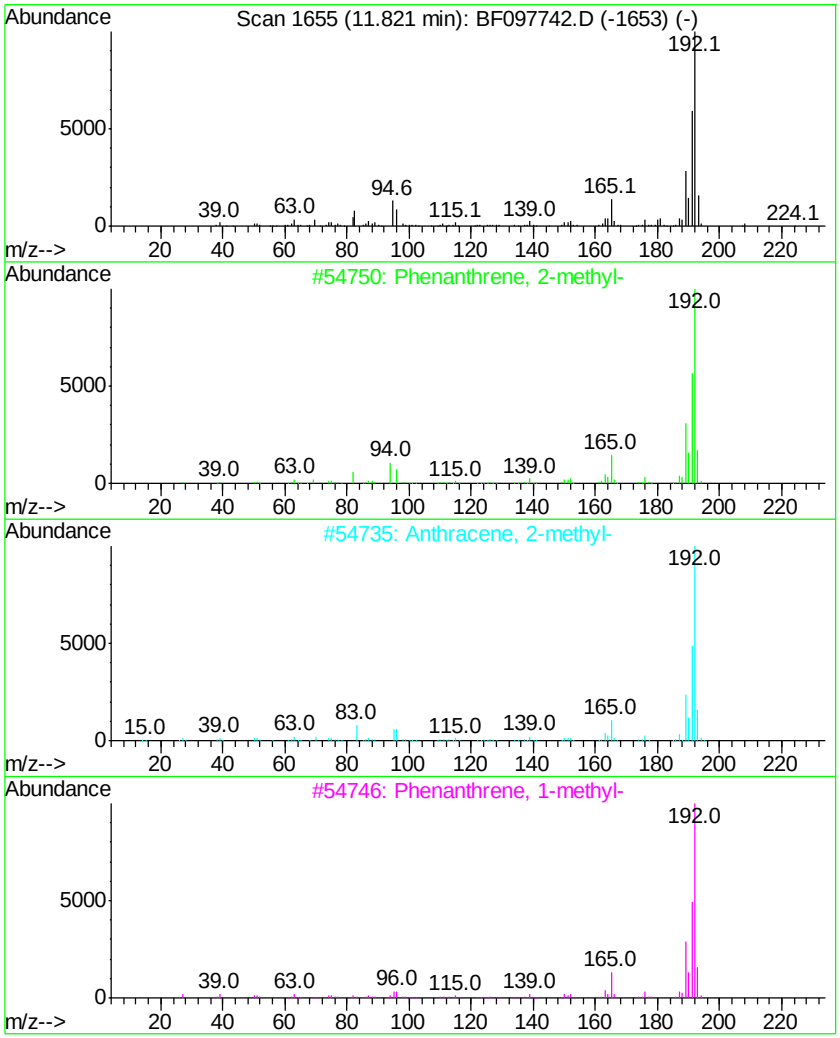
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

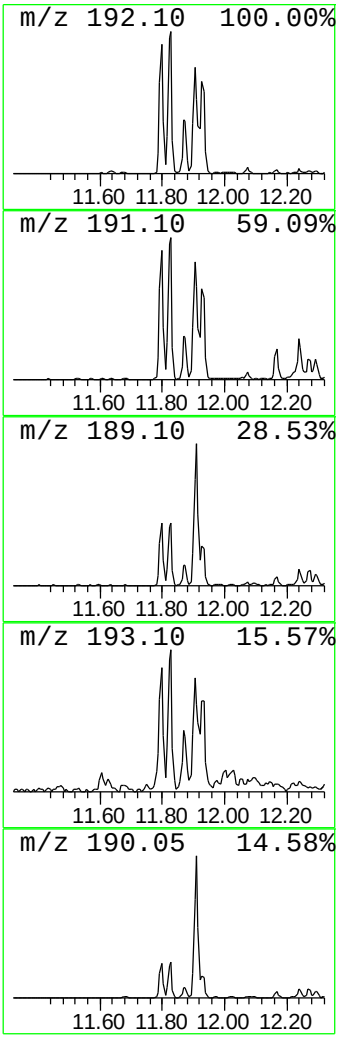
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	6.91 ng	431673	Phenanthrene-d10	11.30

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	95
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	94
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	94





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Acq On : 16 Aug 2017 16:47
Operator : SJ/JU
Sample : I4739-01 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : S11-WC-1

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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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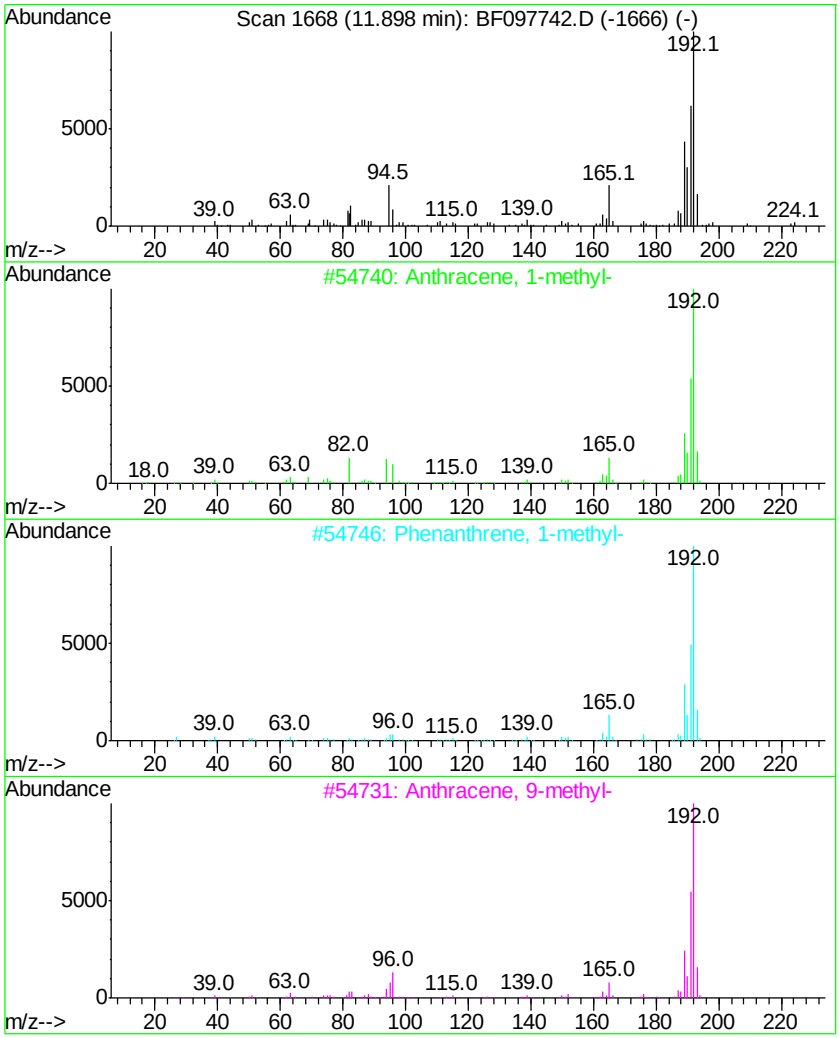
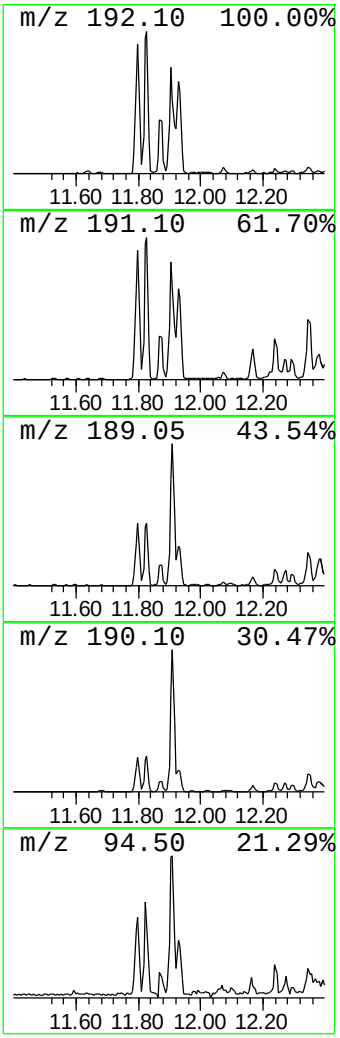
Peak Number 7 Anthracene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	8.98 ng	560789	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	78
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	78
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	60
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	60
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	55





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Sample : I4739-01 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : S11-WC-1

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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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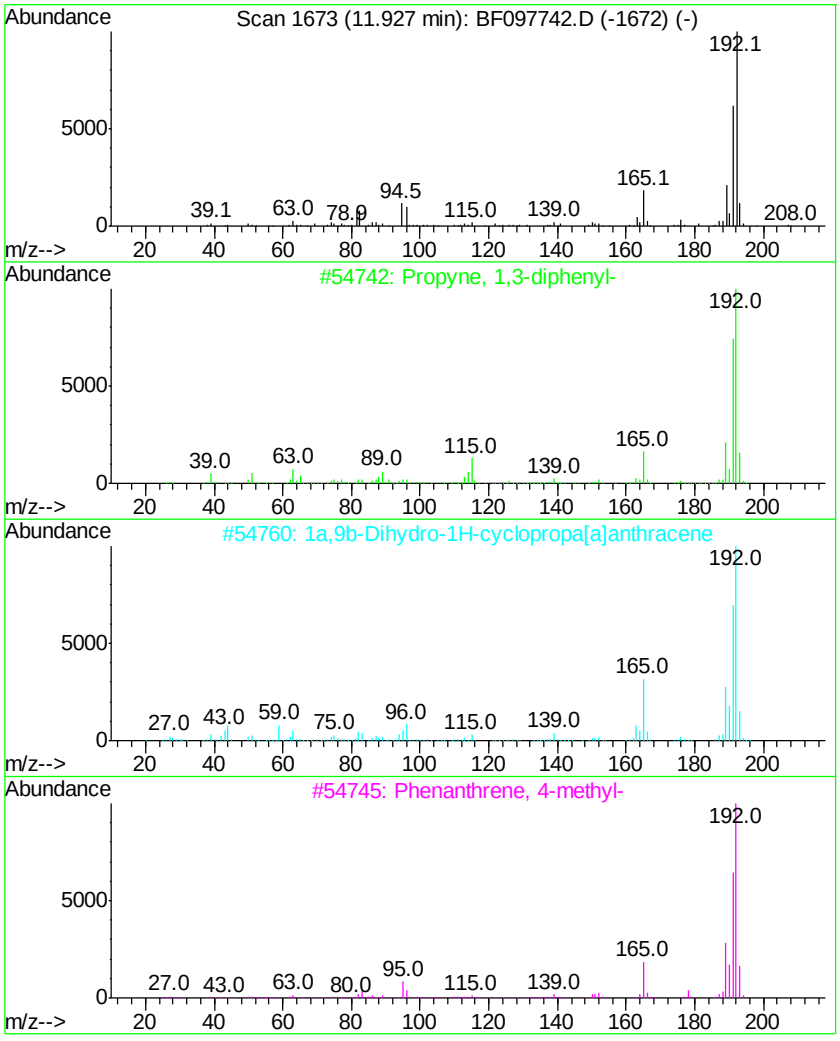
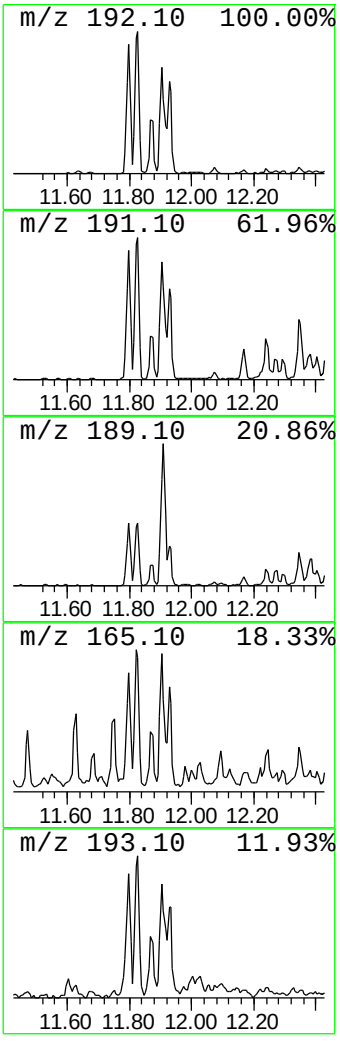
Peak Number 8 Propyne, 1,3-diphenyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	3.30 ng	206217	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	89
2	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	76
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	76
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	76
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	72





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Misc :
ALS Vial : 10 Sample Multiplier: 1

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ClientSampleId : S11-WC-1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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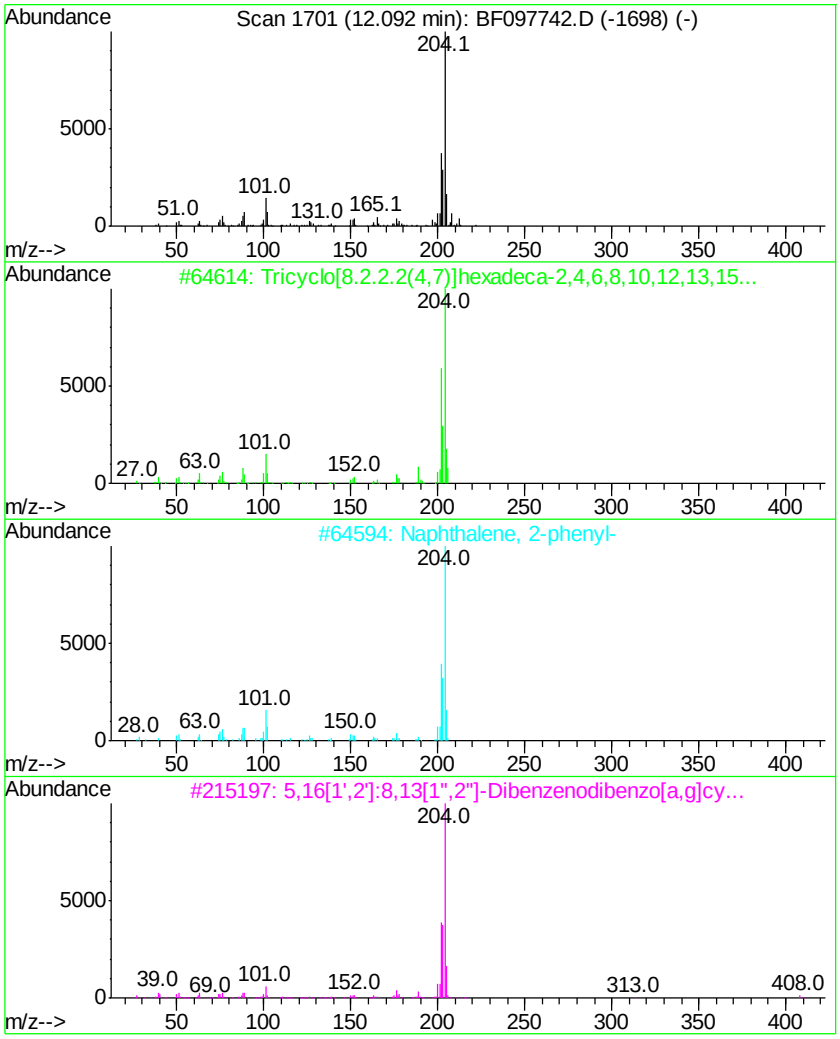
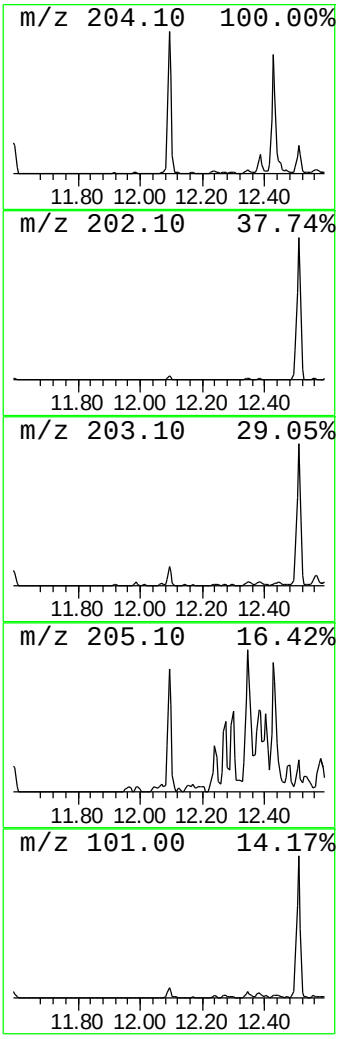
Peak Number 9 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	3.73 ng	232903	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	90
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
4	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	53
5	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	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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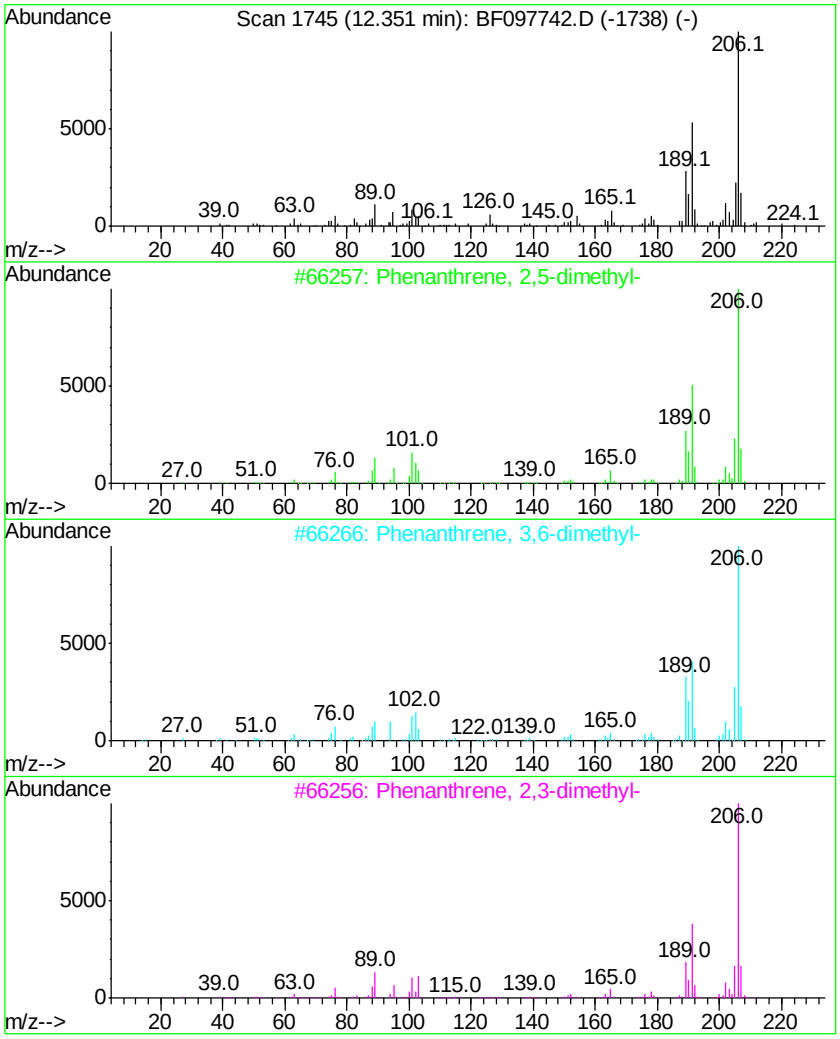
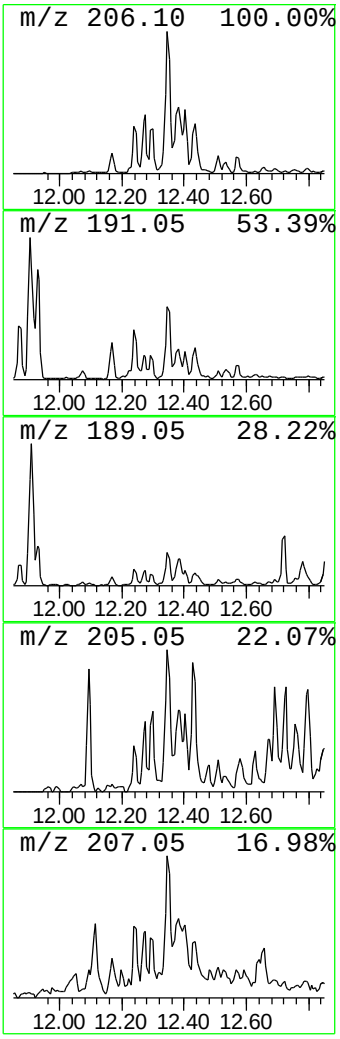
Peak Number 10 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	5.52 ng	344548	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	92
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	91





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Misc :
ALS Vial : 10 Sample Multiplier: 1

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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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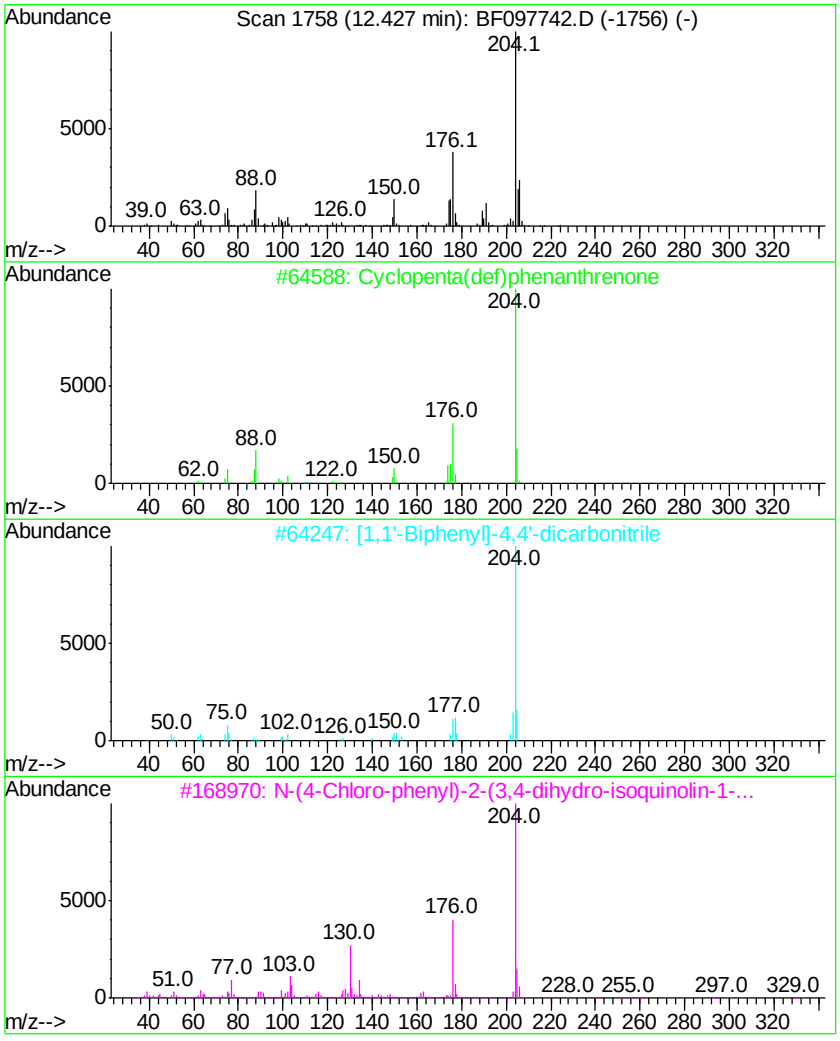
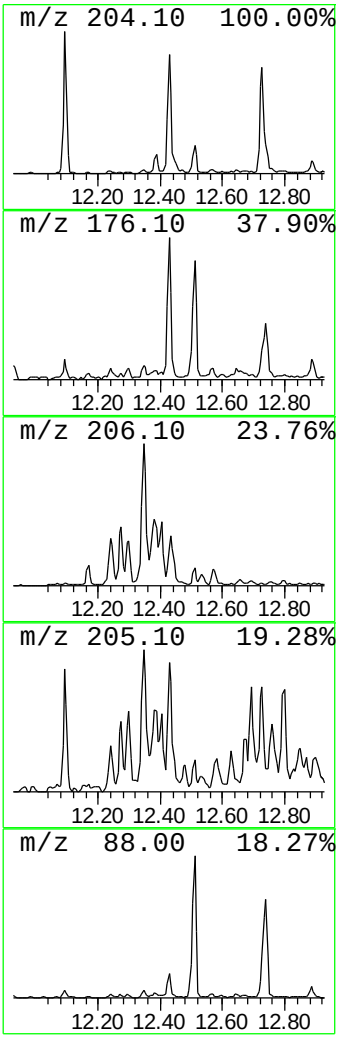
Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	4.44 ng	277166	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	64
3	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	50
4	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	50
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	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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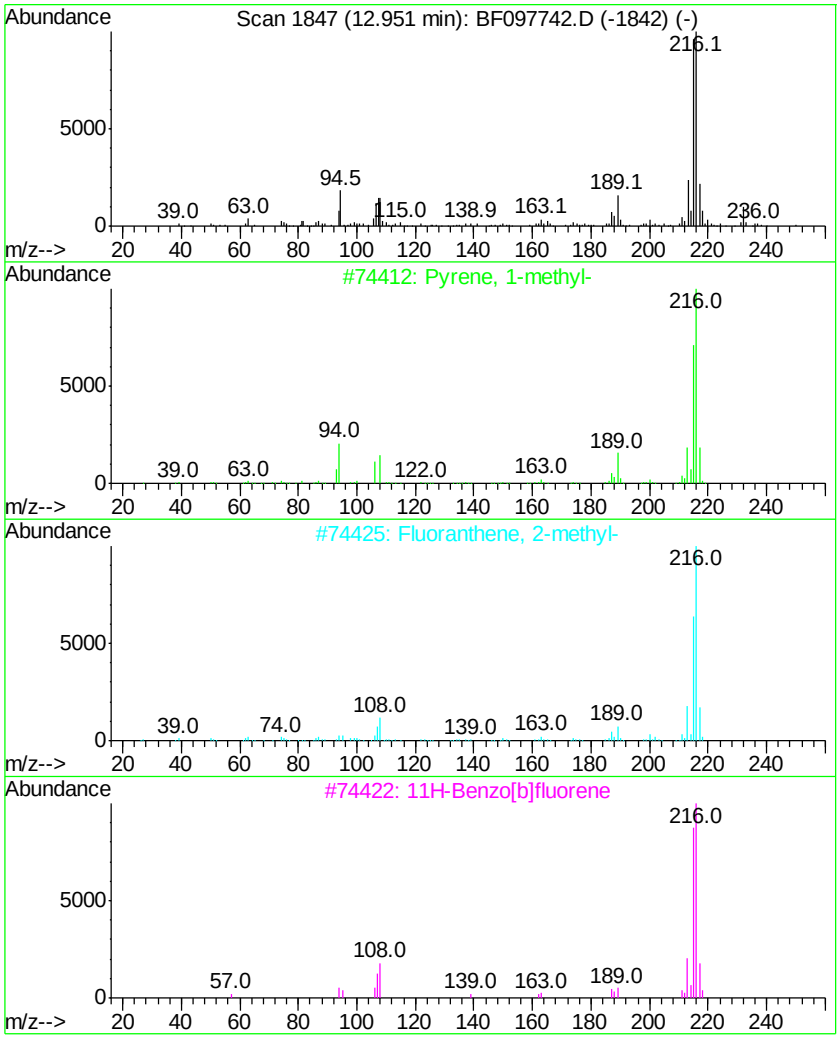
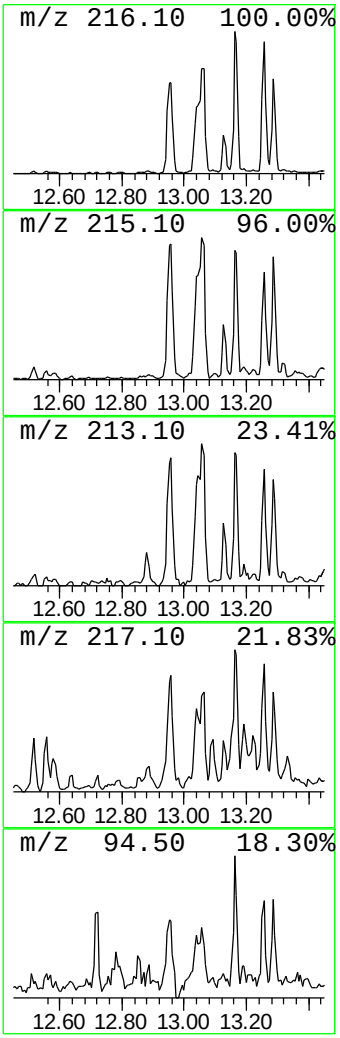
Peak Number 12 Pyrene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	3.61 ng	385170	Chrysene-d12	13.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	89
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	68
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	64





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Operator : SJ/JU
Sample : I4739-01 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : S11-WC-1

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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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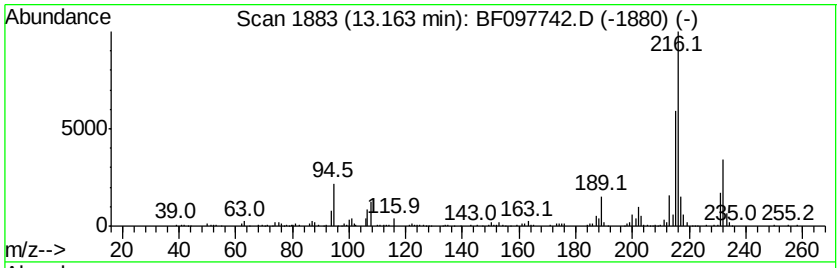
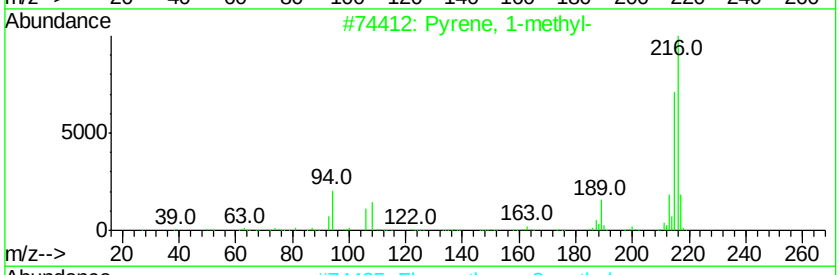
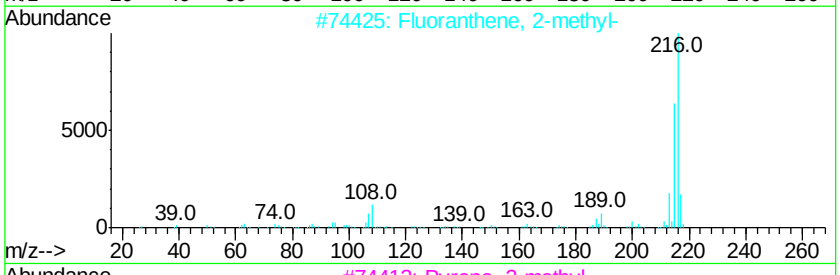
Peak Number 13 Fluoranthene, 2-methyl- Concentration Rank 16

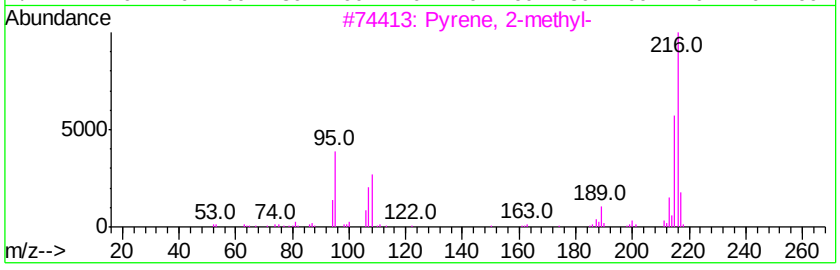
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.16	3.30 ng	352511	Chrysene-d12	13.93

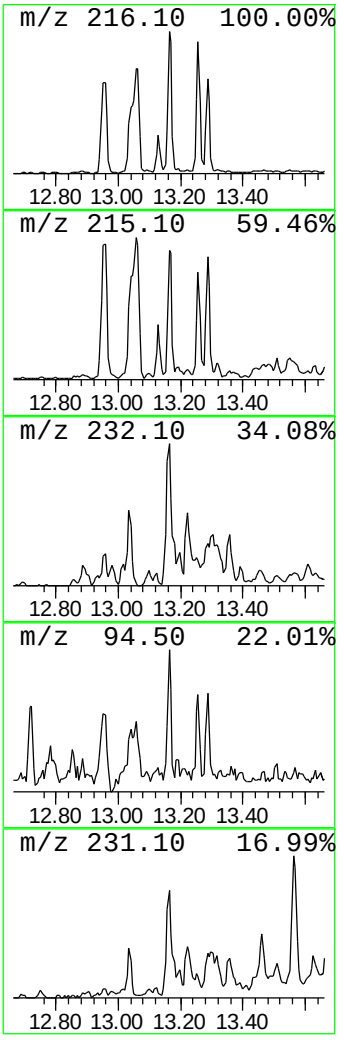
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	92
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	86
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	64
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	60











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Misc :
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Instrument : BNA_F
ClientSampleId : S11-WC-1

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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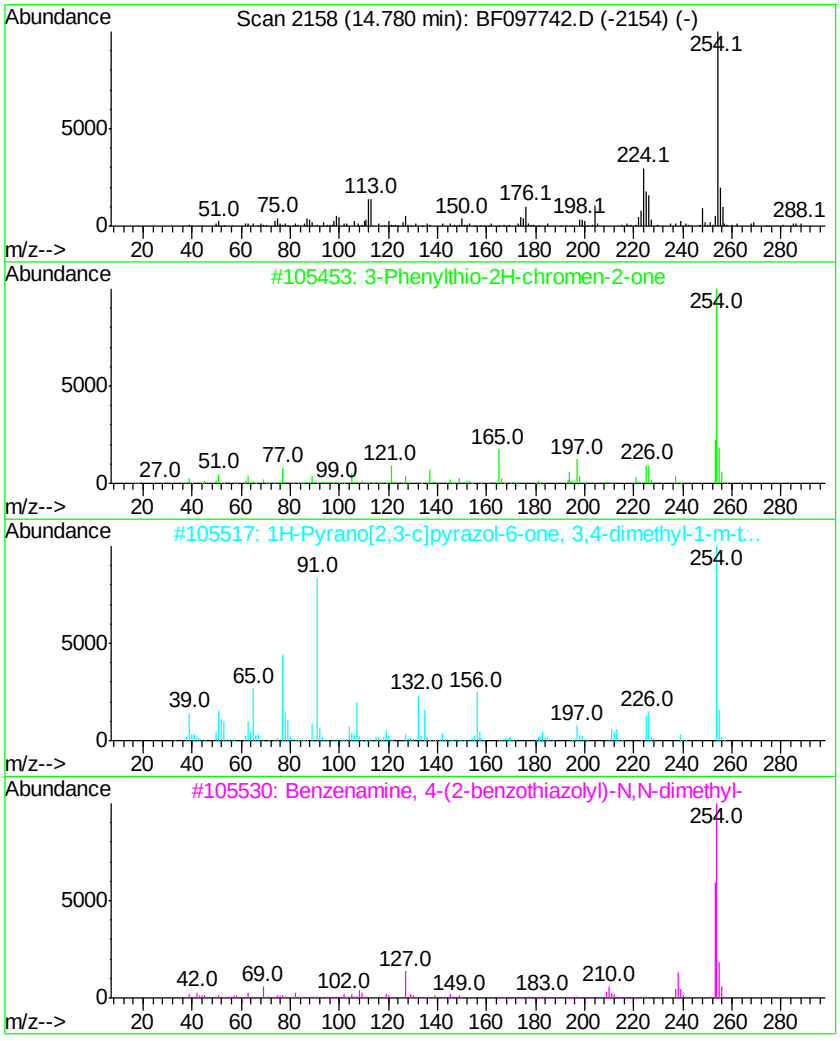
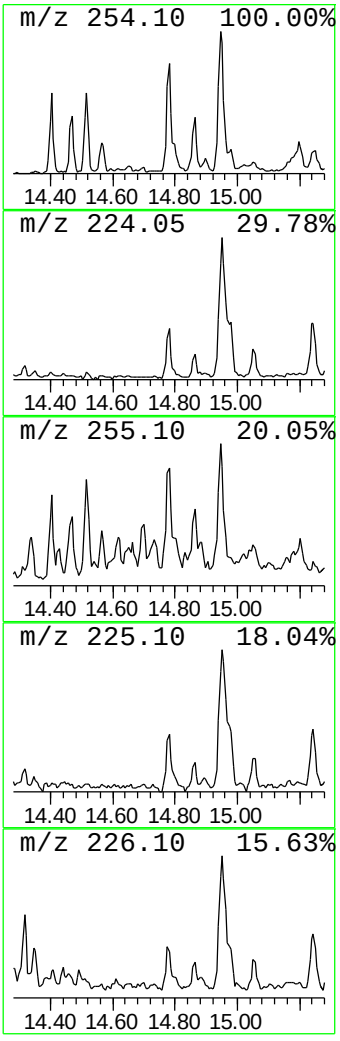
Peak Number 14 3-Phenylthio-2H-chromen-2-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.78	3.09 ng	114535	Perylene-d12	15.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Phenylthio-2H-chromen-2-one	254	C15H10O2S	072167-95-4	64
2	1H-Pyrano[2,3-c]pyrazol-6-one, 3...	254	C15H14N2O2	1000316-21-1	53
3	Benzenamine, 4-(2-benzothiazolyl...	254	C15H14N2S	010205-56-8	49
4	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	47
5	6,6'-Biazulene,	254	C20H14	073393-11-0	47





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Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : S11-WC-1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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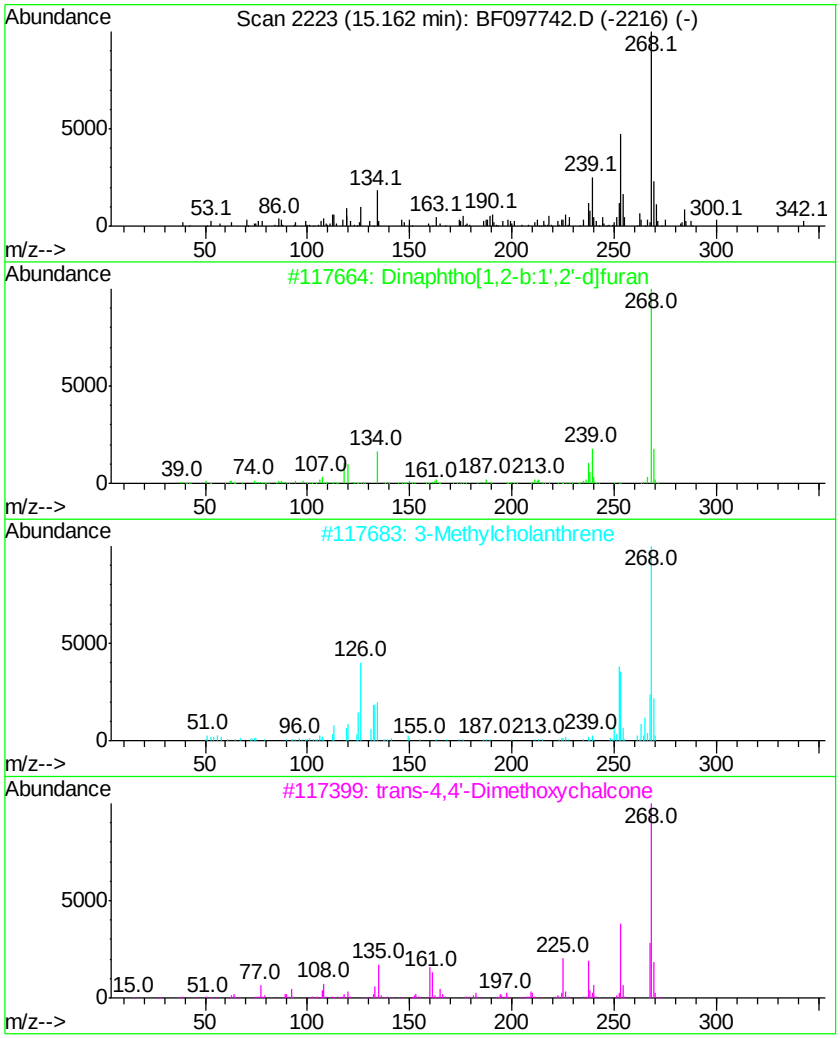
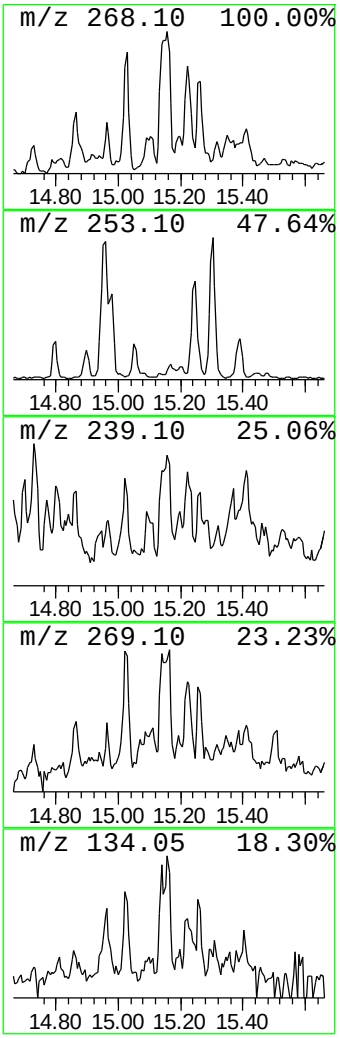
Peak Number 16 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.16	3.29 ng	122036	Perylene-d12	15.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	96
2	3-Methylcholanthrene	268	C21H16	000056-49-5	62
3	trans-4,4'-Dimethoxychalcone	268	C17H16O3	041564-67-4	59
4	Benzo(a)pyren-7-ol	268	C20H12O	037994-82-4	53
5	1H-Cyclopenta[b]indol-3(2H)-one,...	268	C17H20N2O	339284-85-4	53





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ClientSampleId : S11-WC-1

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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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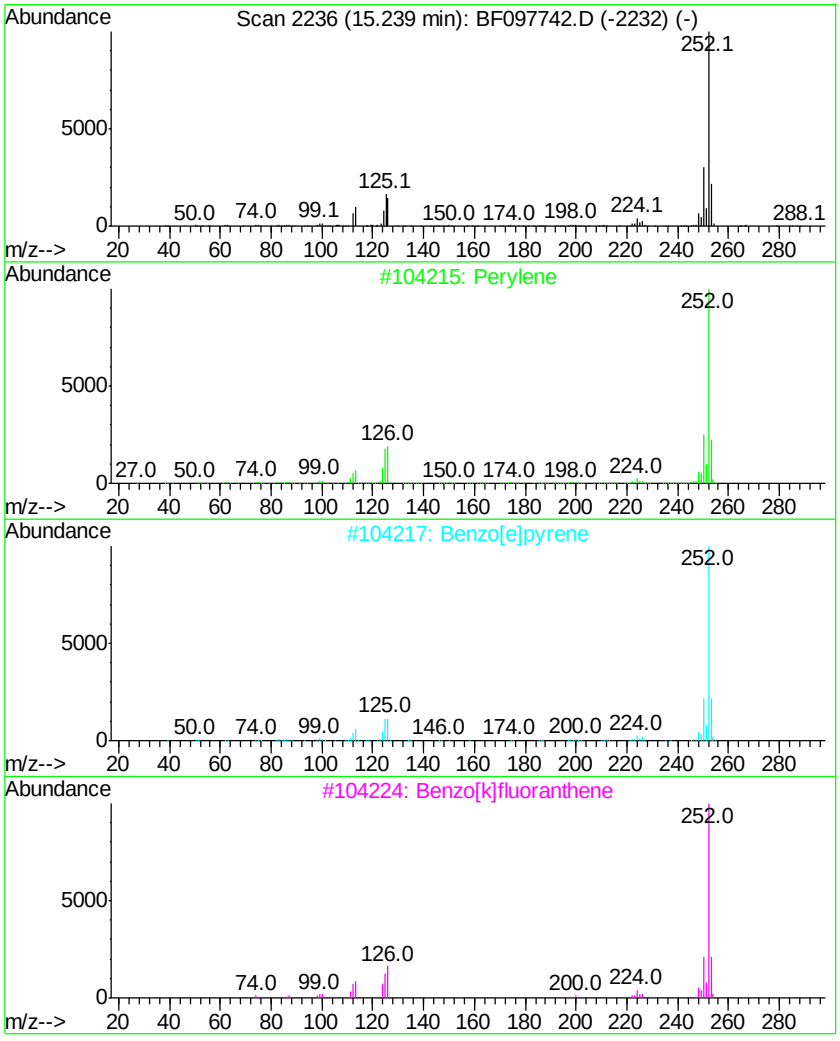
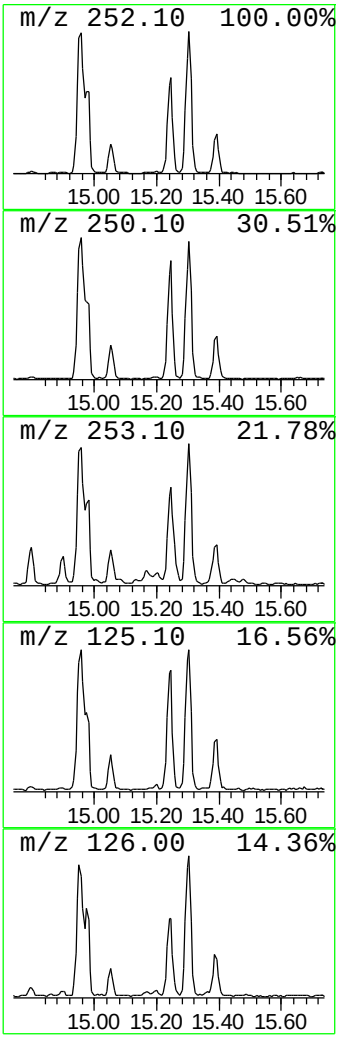
Peak Number 17 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.24	20.84 ng	772903	Perylene-d12	15.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	98
2	Benzo[e]pyrene	252	C20H12	000192-97-2	98
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90





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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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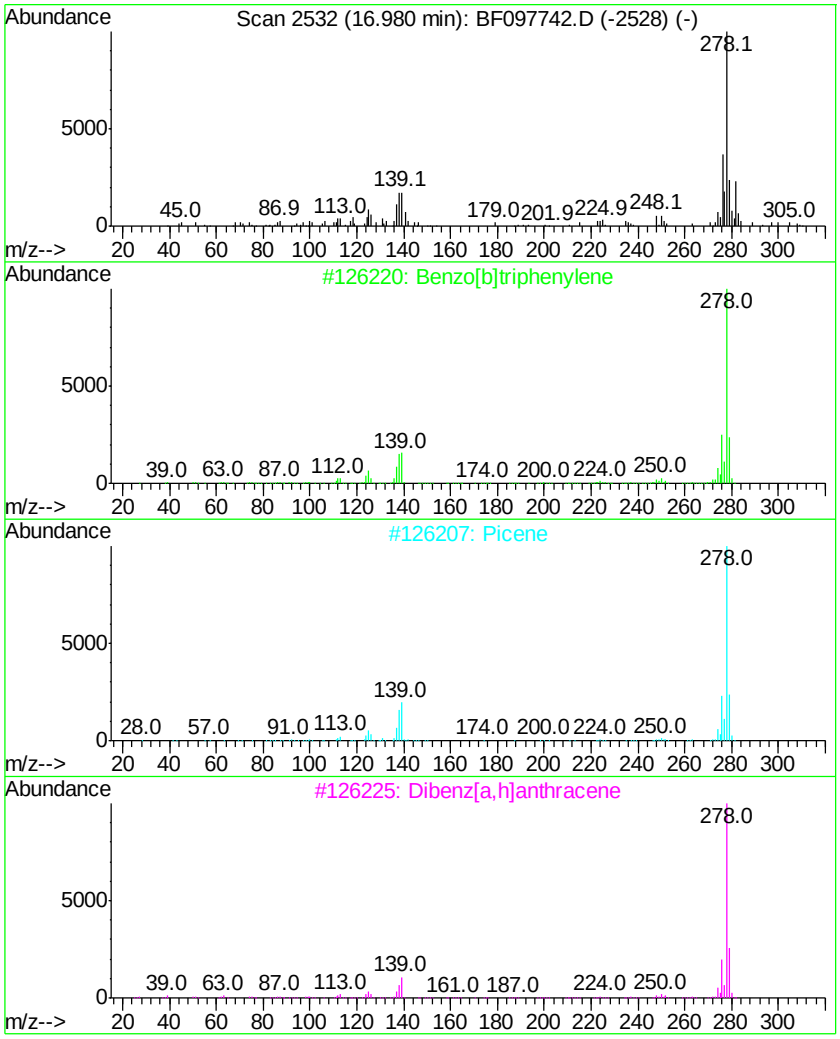
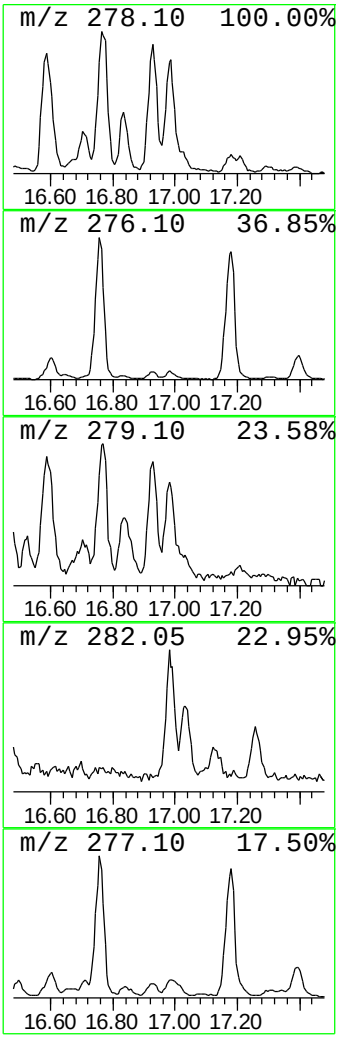
Peak Number 18 Benzo[b]triphenylene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.98	3.23 ng	119894	Perylene-d12	15.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
2	Picene	278	C22H14	000213-46-7	91
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	91
4	Benz[a]anthracene-7,12-dicarboni...	278	C20H10N2	035215-32-8	58
5	Benzo[b]chrysene	278	C22H14	000214-17-5	58





Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
Data File : BF097742.D
Acq On : 16 Aug 2017 16:47
Operator : SJ/JU
Sample : I4739-01 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : S11-WC-1

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

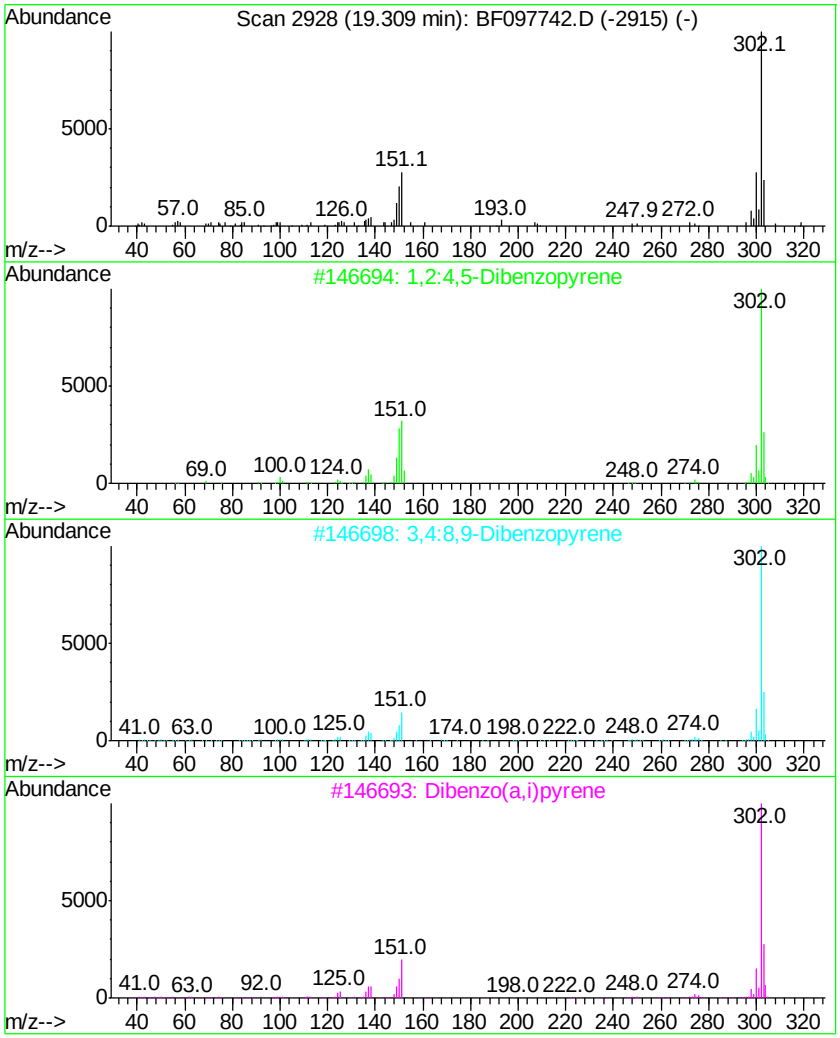
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

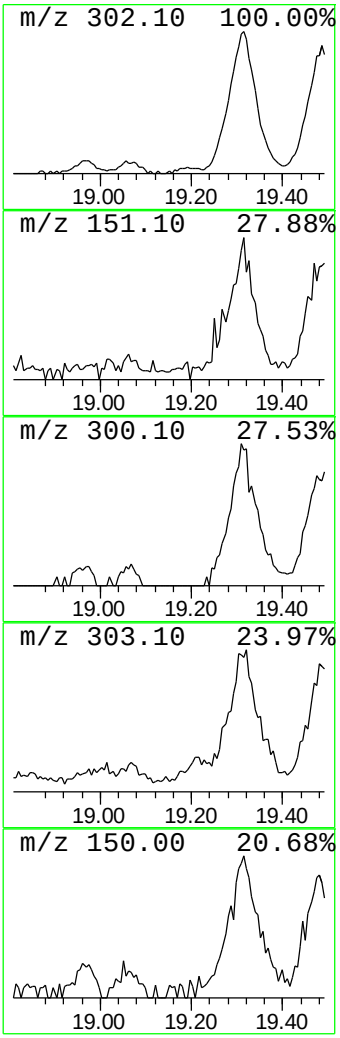
****

Peak Number 20 1,2:4,5-Dibenzopyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.31	7.51 ng	278404	Perylene-d12	15.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	91
2	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	87
3	Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	81
4	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	76
5	Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	76





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081617\
Data File : BF097742.D
Acq On : 16 Aug 2017 16:47
Operator : SJ/JU
Sample : I4739-01 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : S11-WC-1

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
3-Hexen-2-one	4.33	3.7	ng	159946	1	6.77	869844	20.0
2-Pentanone, 4-hy...	4.96	12.3	ng	536889	1	6.77	869844	20.0
unknown6.54	6.54	16.6	ng	721307	1	6.77	869844	20.0
Phenanthrene, 1-m...	11.80	5.7	ng	356577	4	11.30	1249350	20.0
Phenanthrene, 2-m...	11.82	6.9	ng	431673	4	11.30	1249350	20.0
Anthracene, 1-met...	11.90	9.0	ng	560789	4	11.30	1249350	20.0
Propyne, 1,3-diph...	11.93	3.3	ng	206217	4	11.30	1249350	20.0
Tricyclo[8.2.2.2(...	12.09	3.7	ng	232903	4	11.30	1249350	20.0
Phenanthrene, 2,5...	12.35	5.5	ng	344548	4	11.30	1249350	20.0
Cyclopenta(def)ph...	12.43	4.4	ng	277166	4	11.30	1249350	20.0
Pyrene, 1-methyl-	12.95	3.6	ng	385170	5	13.93	2134450	20.0
Fluoranthene, 2-m...	13.16	3.3	ng	352511	5	13.93	2134450	20.0
3-Phenylthio-2H-c...	14.78	3.1	ng	114535	6	15.36	741609	20.0
Dinaphtho[1,2-b:1...	15.16	3.3	ng	122036	6	15.36	741609	20.0
Perylene	15.24	20.8	ng	772903	6	15.36	741609	20.0
Benzo[b]triphenylene	16.98	3.2	ng	119894	6	15.36	741609	20.0
1,2:4,5-Dibenzopy...	19.31	7.5	ng	278404	6	15.36	741609	20.0