

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080717\
 Data File : BF097441.D
 Acq On : 7 Aug 2017 20:51
 Operator : SJ/JU
 Sample : I4623-04
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TEC-WS

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.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	4.534	463	467	481	rBV	117075	205069	9.23%	0.588%
2	5.004	544	547	578	rBV	1630960	2097804	94.40%	6.020%
3	6.081	727	730	744	rBV	1927754	2222140	100.00%	6.376%
4	6.186	744	748	759	rVB	1995501	2067749	93.05%	5.933%
5	6.410	783	786	794	rBV	663050	603929	27.18%	1.733%
6	6.563	809	812	823	rBV	1466497	1495012	67.28%	4.290%
7	6.981	880	883	898	rBV	1226606	1294006	58.23%	3.713%
8	7.692	1001	1004	1017	rBV	854154	831751	37.43%	2.387%
9	8.504	1139	1142	1147	rBV	47999	45253	2.04%	0.130%
10	8.769	1183	1187	1191	rBV	1801041	1690765	76.09%	4.852%
11	9.104	1240	1244	1247	rBV	45258	48041	2.16%	0.138%
12	9.175	1253	1256	1261	rBV	311148	257114	11.57%	0.738%
13	9.433	1297	1300	1303	rVV	881757	810019	36.45%	2.324%
14	9.469	1303	1306	1315	rVB	443697	397684	17.90%	1.141%
15	9.551	1315	1320	1324	rBV2	25685	38825	1.75%	0.111%
16	9.645	1330	1336	1340	rBV	117405	118684	5.34%	0.341%
17	9.892	1375	1378	1381	rVV	60953	52410	2.36%	0.150%
18	9.980	1390	1393	1399	rVV	219005	206713	9.30%	0.593%
19	10.045	1399	1404	1406	rVV	54796	83545	3.76%	0.240%
20	10.063	1406	1407	1410	rVV2	42989	40141	1.81%	0.115%
21	10.110	1410	1415	1418	rVV4	50791	82157	3.70%	0.236%
22	10.139	1418	1420	1426	rVB	39730	46372	2.09%	0.133%
23	10.222	1431	1434	1440	rBV	900091	843645	37.97%	2.421%
24	10.363	1454	1458	1464	rBV2	93704	129688	5.84%	0.372%
25	10.527	1482	1486	1488	rBV4	34427	39816	1.79%	0.114%
26	10.727	1517	1520	1524	rVB	56911	53597	2.41%	0.154%
27	10.804	1530	1533	1536	rVV	126070	119819	5.39%	0.344%
28	10.910	1547	1551	1553	rBV	676593	644268	28.99%	1.849%
29	10.933	1553	1555	1558	rVV	1583977	1269479	57.13%	3.643%
30	10.986	1559	1564	1568	rVB	404195	394021	17.73%	1.131%
31	11.033	1568	1572	1577	rBV2	28612	42185	1.90%	0.121%
32	11.151	1587	1592	1599	rBV2	148729	172153	7.75%	0.494%
33	11.239	1603	1607	1609	rBV2	35950	41996	1.89%	0.121%
34	11.410	1632	1636	1638	rBV	189945	156206	7.03%	0.448%

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 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.439	1638	1641	1644	rVV	219738	194228	8.74%	0.557%
36	11.486	1644	1649	1651	rVV2	87578	115453	5.20%	0.331%
37	11.516	1651	1654	1657	rVV	285677	302694	13.62%	0.869%
38	11.539	1657	1658	1666	rVB	134380	115034	5.18%	0.330%
39	11.704	1683	1686	1690	rBV	117071	91435	4.11%	0.262%
40	11.745	1690	1693	1697	rVB2	99182	92785	4.18%	0.266%
41	11.851	1706	1711	1715	rBV2	54450	56039	2.52%	0.161%
42	11.957	1726	1729	1732	rBV	106522	104610	4.71%	0.300%
43	11.992	1732	1735	1737	rBV2	47801	50435	2.27%	0.145%
44	12.051	1741	1745	1752	rVB2	91163	112222	5.05%	0.322%
45	12.116	1752	1756	1760	rBV	1744774	1628631	73.29%	4.673%
46	12.186	1766	1768	1771	rVB2	46935	40413	1.82%	0.116%
47	12.263	1773	1781	1785	rBV2	102475	131510	5.92%	0.377%
48	12.339	1789	1794	1797	rBV	1509352	1751079	78.80%	5.025%
49	12.392	1801	1803	1809	rVB2	76092	101424	4.56%	0.291%
50	12.463	1812	1815	1816	rBV	105486	83080	3.74%	0.238%
51	12.492	1816	1820	1827	rVB	1255987	1312282	59.05%	3.766%
52	12.563	1827	1832	1836	rBV3	103503	176367	7.94%	0.506%
53	12.645	1843	1846	1848	rBV3	84713	102465	4.61%	0.294%
54	12.668	1848	1850	1854	rVB	233303	228451	10.28%	0.656%
55	12.733	1858	1861	1864	rVB2	177523	155999	7.02%	0.448%
56	12.774	1864	1868	1870	rBV	178820	224911	10.12%	0.645%
57	12.863	1880	1883	1886	rBV	89999	74427	3.35%	0.214%
58	12.892	1886	1888	1892	rBV	94420	84516	3.80%	0.243%
59	12.986	1902	1904	1909	rVB	37788	40714	1.83%	0.117%
60	13.151	1929	1932	1935	rBV2	30707	39566	1.78%	0.114%
61	13.186	1935	1938	1941	rVB	104695	92395	4.16%	0.265%
62	13.286	1950	1955	1957	rBV3	147832	182866	8.23%	0.525%
63	13.304	1957	1958	1961	rVV	139346	117901	5.31%	0.338%
64	13.333	1961	1963	1965	rVV	115691	99871	4.49%	0.287%
65	13.357	1965	1967	1970	rVB2	79820	74662	3.36%	0.214%
66	13.392	1970	1973	1976	rBV	127485	115960	5.22%	0.333%
67	13.527	1989	1996	2000	rBV3	1039072	1706929	76.81%	4.898%
68	13.562	2000	2002	2005	rVB	756844	613840	27.62%	1.761%
69	13.633	2010	2014	2019	rVB	180623	189580	8.53%	0.544%
70	13.692	2019	2024	2029	rBV3	61974	118283	5.32%	0.339%
71	13.733	2029	2031	2035	rVV2	81243	123376	5.55%	0.354%

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72	13.768	2035	2037	2043	rVB	83571	87989	3.96%	0.252%
73	13.886	2054	2057	2059	rBV2	65184	65128	2.93%	0.187%
74	13.921	2059	2063	2066	rVV	178882	196944	8.86%	0.565%
75	13.957	2066	2069	2071	rVV2	80199	80059	3.60%	0.230%
76	13.998	2071	2076	2077	rVV5	55743	70081	3.15%	0.201%
77	14.015	2077	2079	2081	rVV	82251	75318	3.39%	0.216%
78	14.045	2081	2084	2085	rVV3	91526	98560	4.44%	0.283%
79	14.062	2085	2087	2090	rVV	112550	104808	4.72%	0.301%
80	14.245	2110	2118	2125	rBV4	99315	189636	8.53%	0.544%
81	14.321	2129	2131	2137	rVB2	38894	56611	2.55%	0.162%
82	14.398	2137	2144	2147	rBV3	91806	129452	5.83%	0.371%
83	14.527	2162	2166	2174	rVV	715245	1220719	54.93%	3.503%
84	14.615	2178	2181	2185	rVB	133509	124588	5.61%	0.358%
85	14.704	2191	2196	2197	rBV4	38055	60439	2.72%	0.173%
86	14.727	2197	2200	2203	rVV4	52334	80156	3.61%	0.230%
87	14.774	2204	2208	2213	rVV	387106	451315	20.31%	1.295%
88	14.821	2213	2216	2221	rVV	534171	616797	27.76%	1.770%
89	14.874	2221	2225	2227	rVV	388755	410127	18.46%	1.177%
90	14.898	2227	2229	2236	rVB2	153821	213528	9.61%	0.613%
91	15.021	2246	2250	2253	rBV	33322	47922	2.16%	0.138%
92	15.057	2253	2256	2263	rVB4	42964	74123	3.34%	0.213%
93	15.333	2300	2303	2307	rVB	37085	41387	1.86%	0.119%
94	15.903	2396	2400	2402	rBV2	28261	40133	1.81%	0.115%
95	16.062	2422	2427	2434	rBV	182427	310766	13.98%	0.892%
96	16.198	2446	2450	2454	rBV2	42386	71150	3.20%	0.204%
97	16.245	2454	2458	2465	rVB3	30006	57946	2.61%	0.166%
98	16.415	2481	2487	2496	rVB	131864	243938	10.98%	0.700%
99	16.621	2518	2522	2531	rVB4	33798	74951	3.37%	0.215%
100	18.209	2788	2792	2801	rVB2	29408	66337	2.99%	0.190%

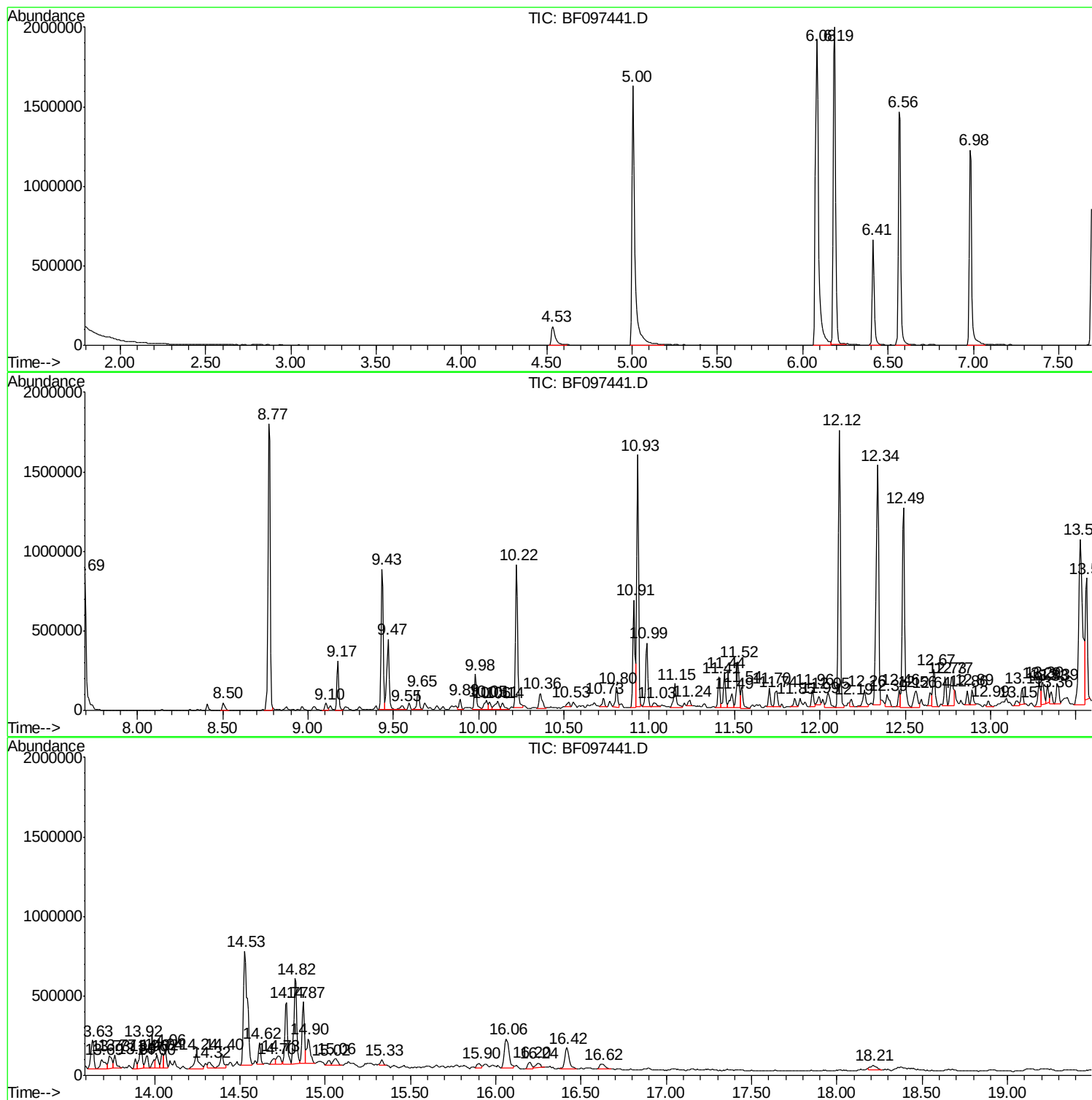
Sum of corrected areas: 34849397

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TEC-WS

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.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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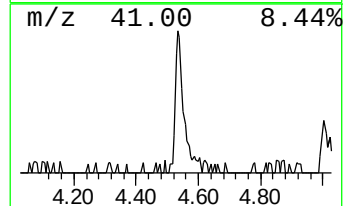
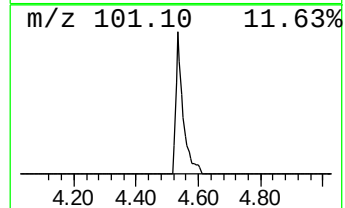
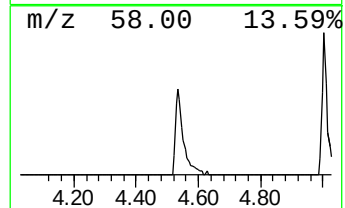
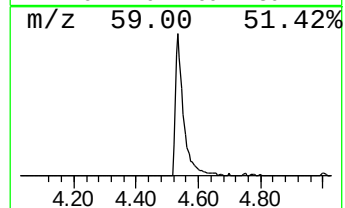
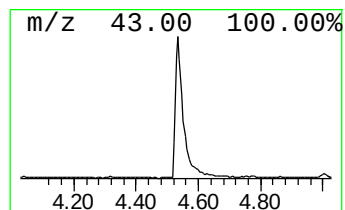
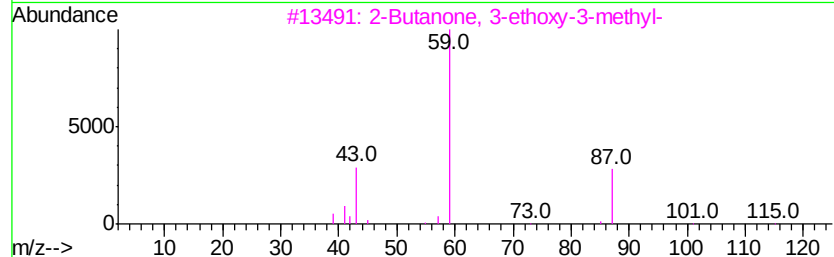
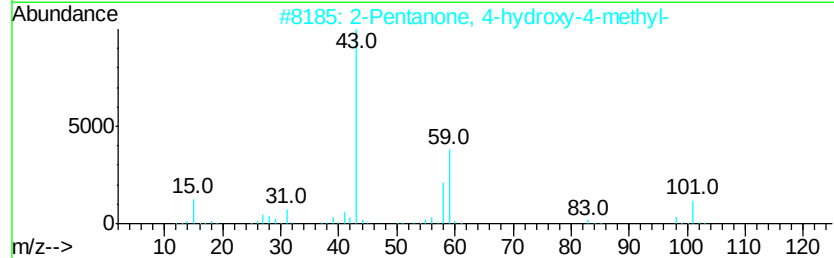
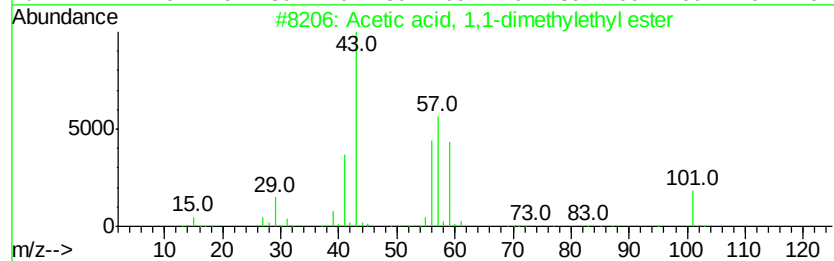
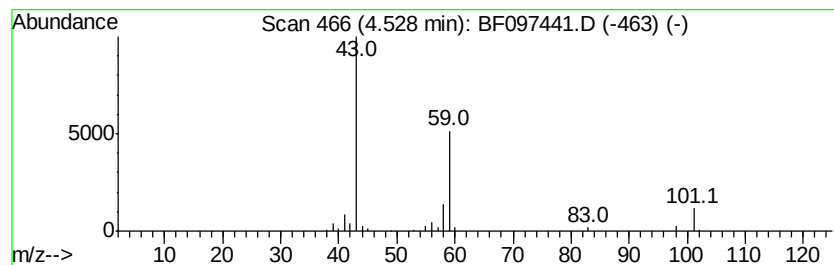
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Acetic acid, 1,1-dimethylet... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.53	6.79 ng	205069	1,4-Dichlorobenzene-d4	6.41

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	50
2		2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	40
3		2-Butanone, 3-ethoxy-3-methyl-	130	C7H14O2	036687-99-7	9
4		Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	9
5		3-Hydroxy-3-methyl-2-butanone	102	C5H10O2	000115-22-0	9



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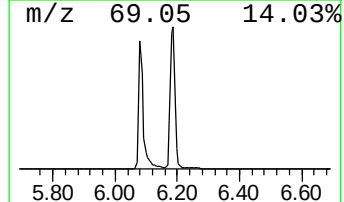
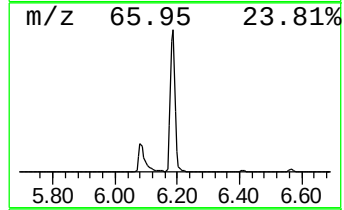
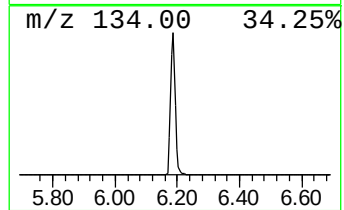
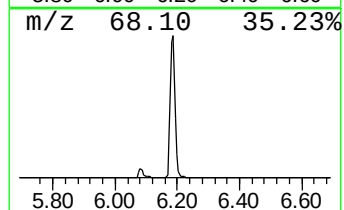
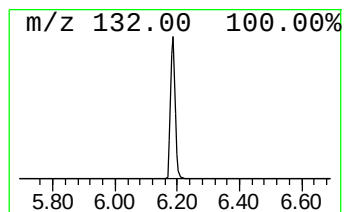
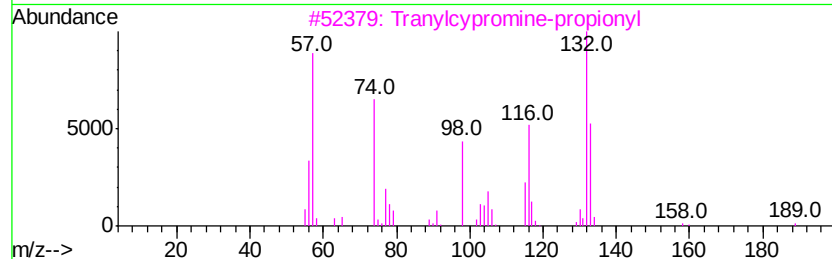
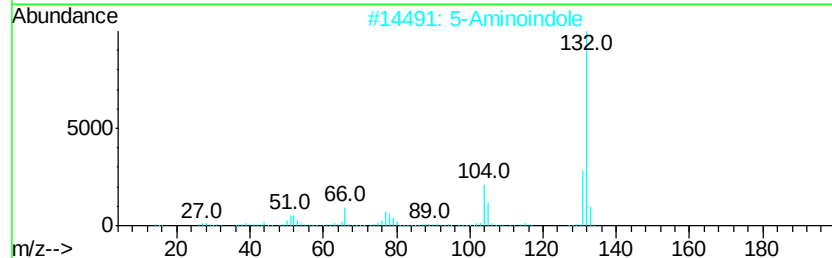
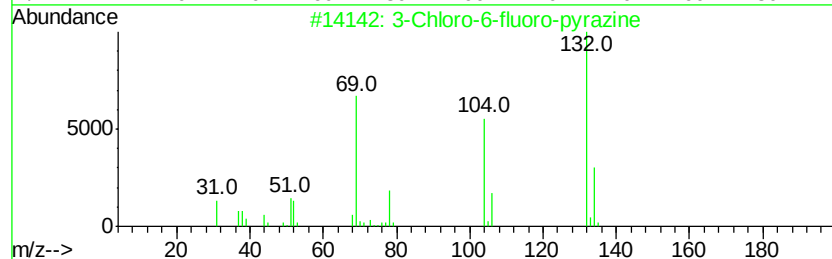
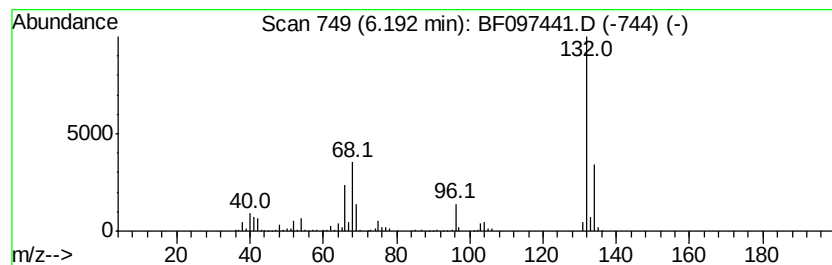
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TIC Library : C:\DATABASE\NIST11.L
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Peak Number 2 unknown6.19 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.19	68.48 ng	2067750	1,4-Dichlorobenzene-d4	6.41

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	3		Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5		Aminoindole	132	C8H8N2	005192-03-0	12
3			Tranvlcypromine-propionvl	189	C12H15NO	1000123-86-3	10
4			1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9
5			Bicyclo[4.2.0]octa-1,3,5-triene, ...	132	C10H12	028749-81-7	9



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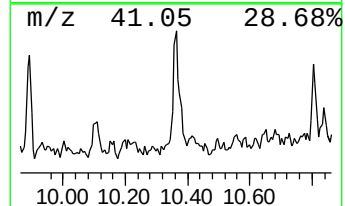
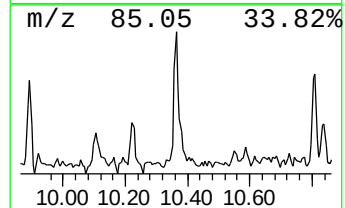
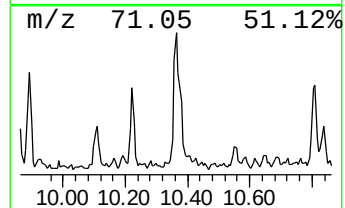
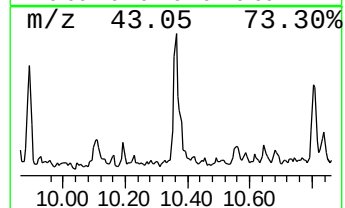
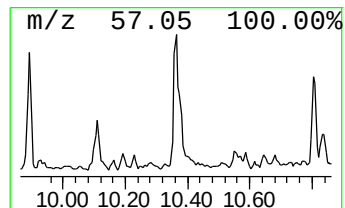
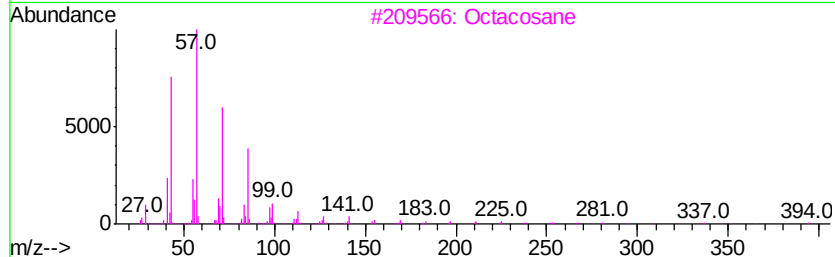
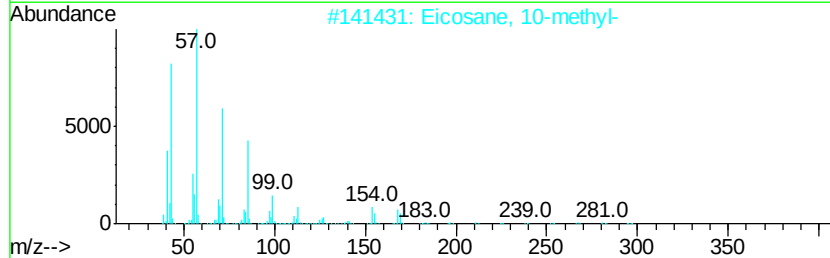
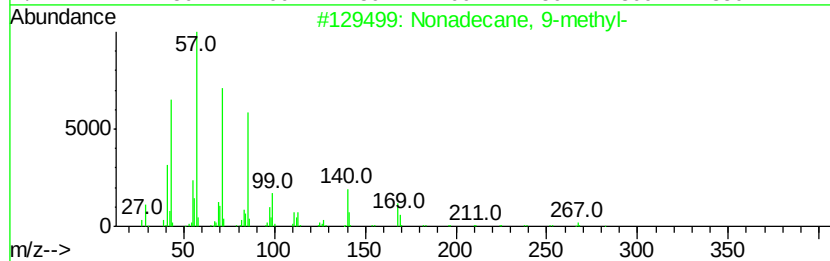
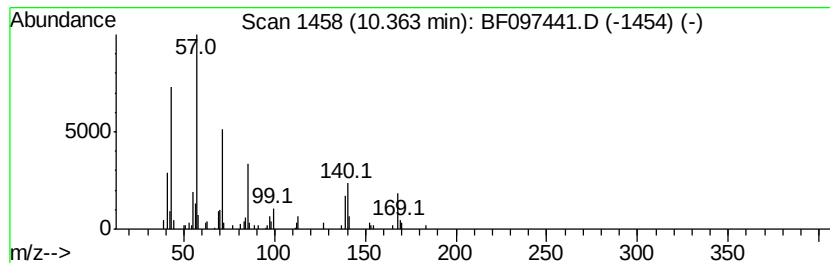
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Peak Number 4 Nonadecane, 9-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.36	4.03 ng	129688	Phenanthrene-d10	10.91

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Nonadecane, 9-methyl-	282	C20H42	013287-24-6	62
2		Eicosane, 10-methyl-	296	C21H44	054833-23-7	58
3		Octacosane	394	C28H58	000630-02-4	58
4		Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	58
5		Tridecane	184	C13H28	000629-50-5	52



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080717\
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Sample : I4623-04
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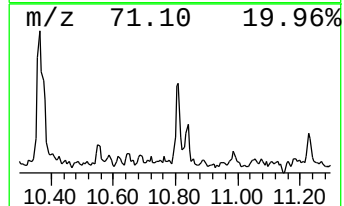
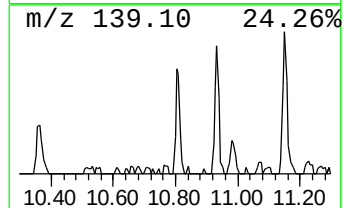
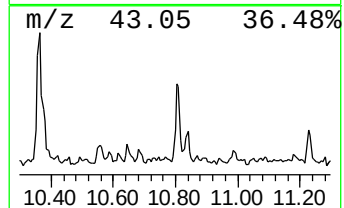
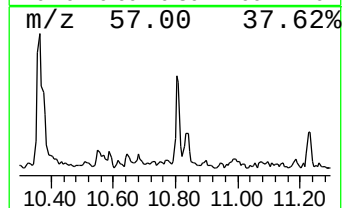
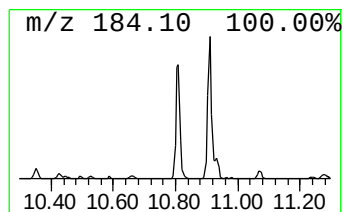
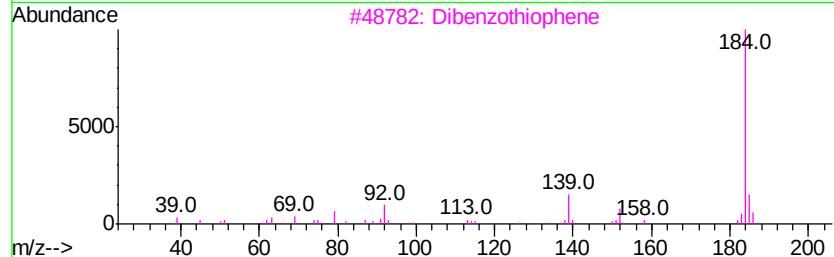
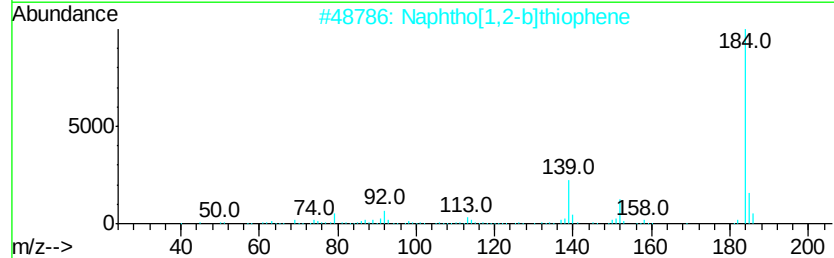
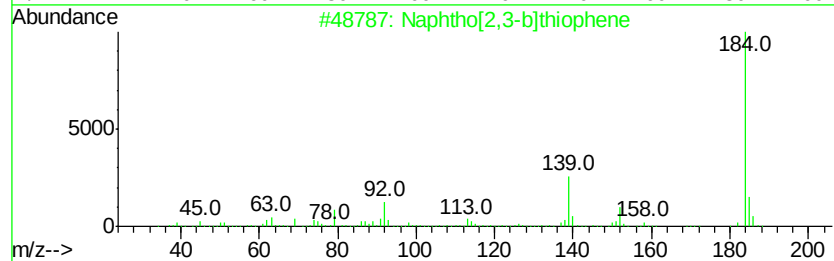
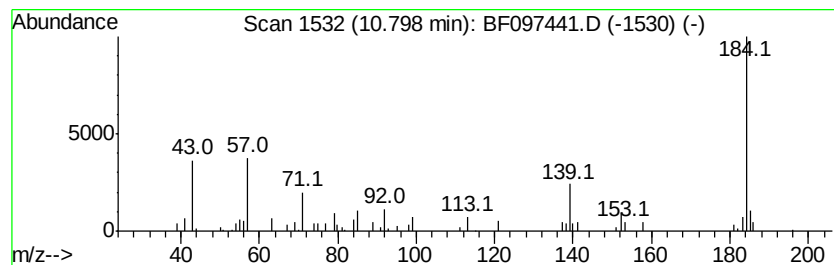
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Naphtho[2,3-b]thiophene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD		R.T.	
10.80	3.72 ng	119819	Phenanthrene-d10		10.91	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	97
2		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	96
3		Dibenzothiophene	184	C12H8S	000132-65-0	96
4		Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
5		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90



Data Path : Z:\HPCHEM1\BNA F\DATA\BF080717\
Data File : BF097441.D
Acq On : 7 Aug 2017 20:51
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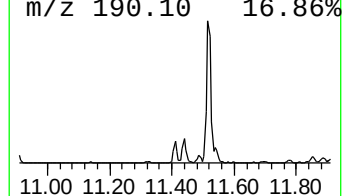
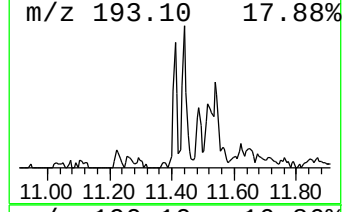
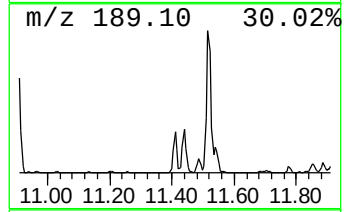
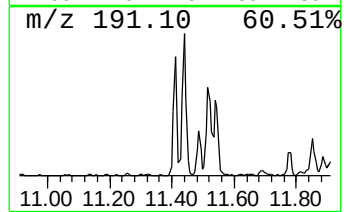
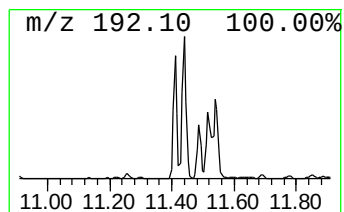
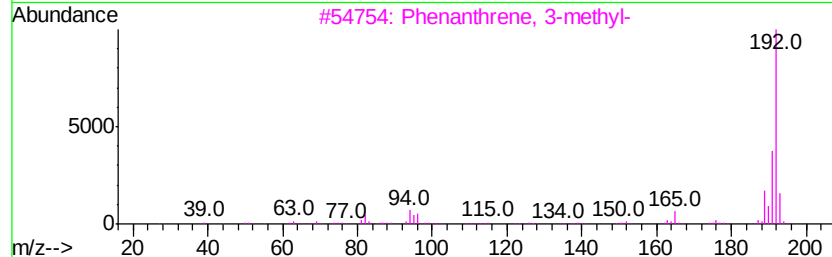
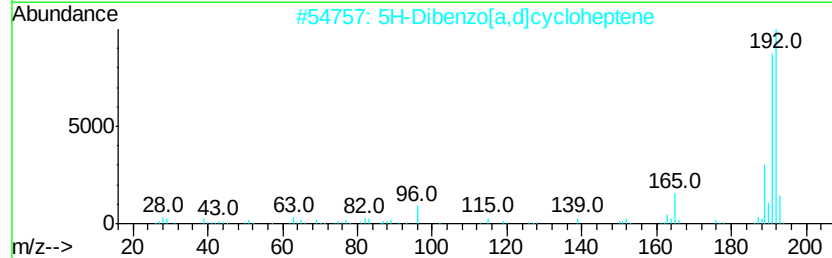
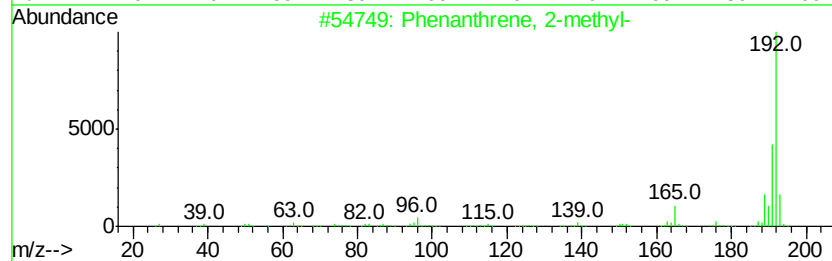
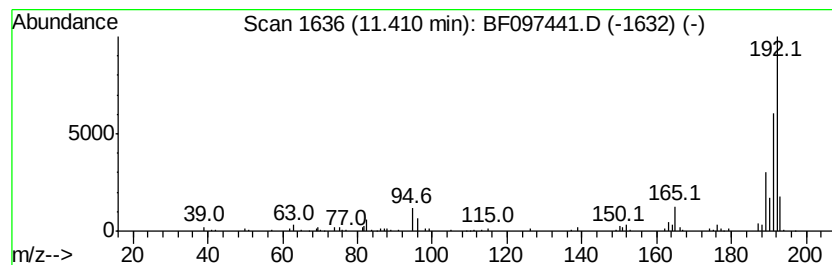
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.41	4.85 ng	156206	Phenanthrene-d10	10.91

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2			5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	93
3			Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
4			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5			Anthracene, 2-methyl-	192	C15H12	000613-12-7	93



Data Path : Z:\HPCHEM1\BNA F\DATA\BF080717\
Data File : BF097441.D
Acq On : 7 Aug 2017 20:51
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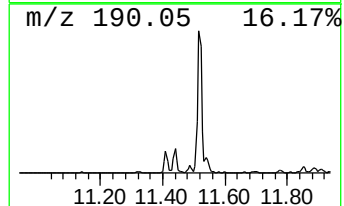
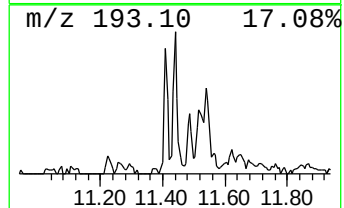
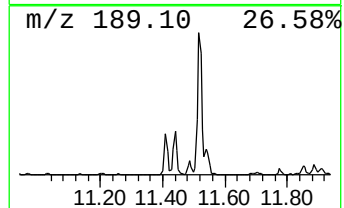
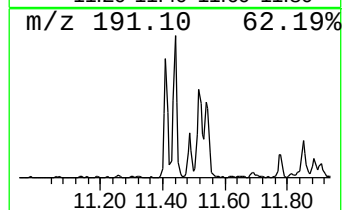
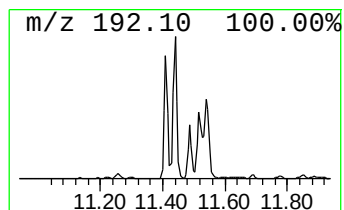
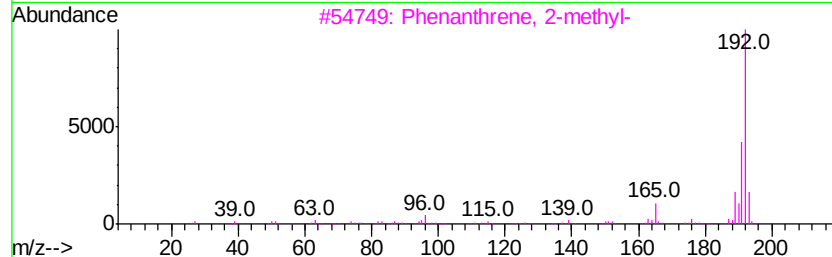
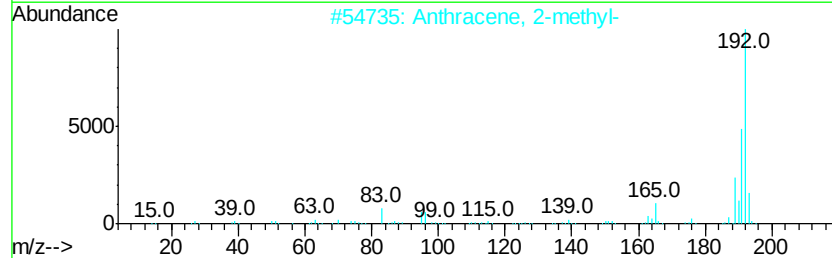
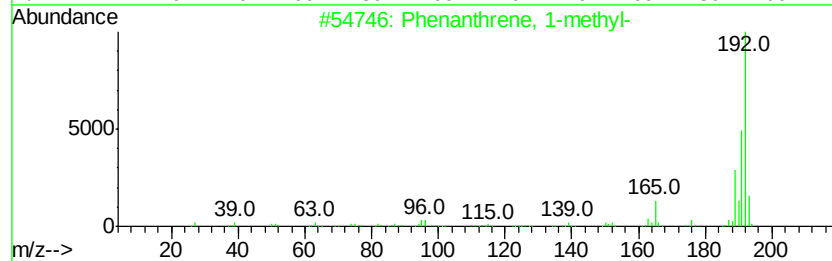
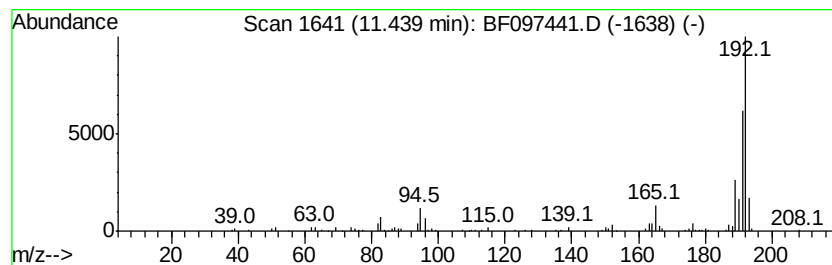
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.44	6.03 ng	194228	Phenanthrene-d10	10.91

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4		1H-Cyclopropa[1,1b]phenanthrene, 1a,...	192	C15H12	000949-41-7	95
5		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95



Data Path : Z:\HPCHEM1\BNA F\DATA\BF080717\
Data File : BF097441.D
Acq On : 7 Aug 2017 20:51
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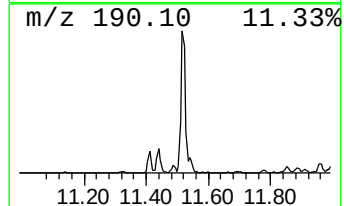
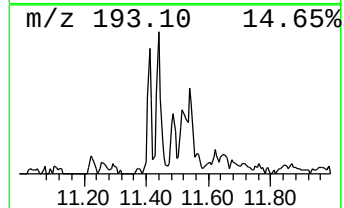
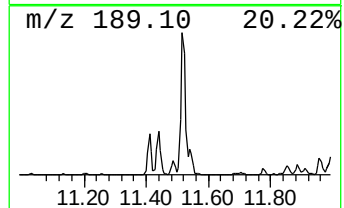
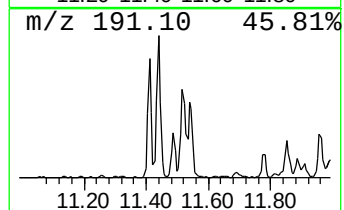
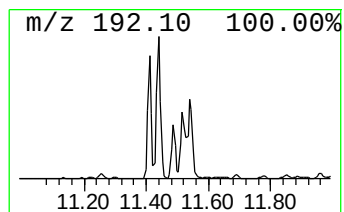
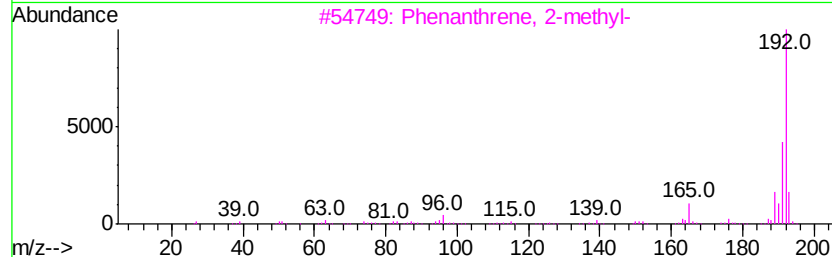
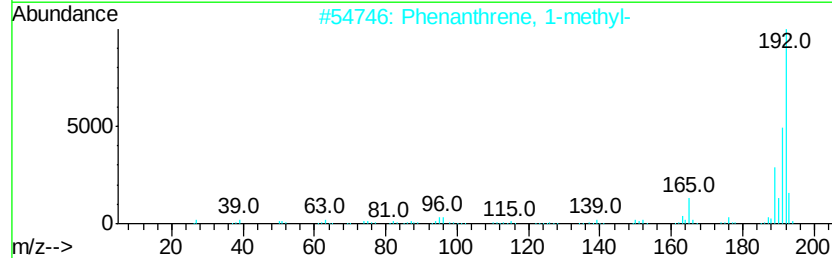
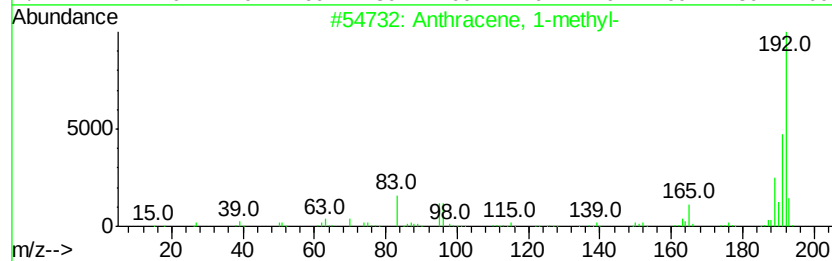
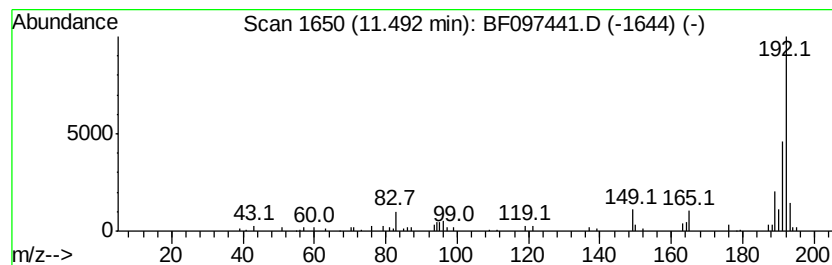
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Anthracene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.49	3.58 ng	115453	Phenanthrene-d10	10.91

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



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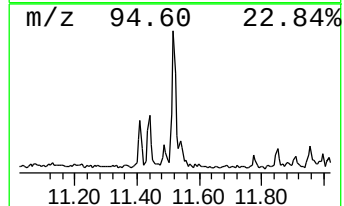
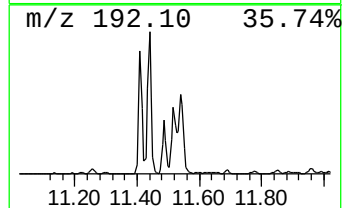
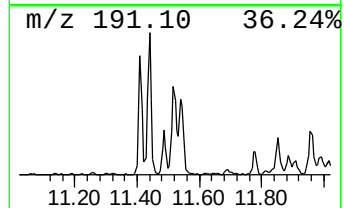
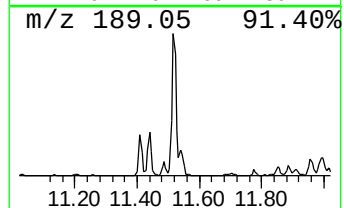
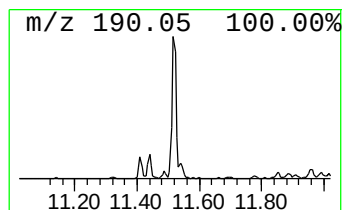
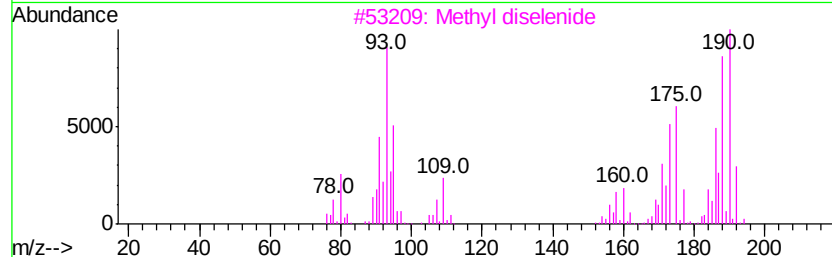
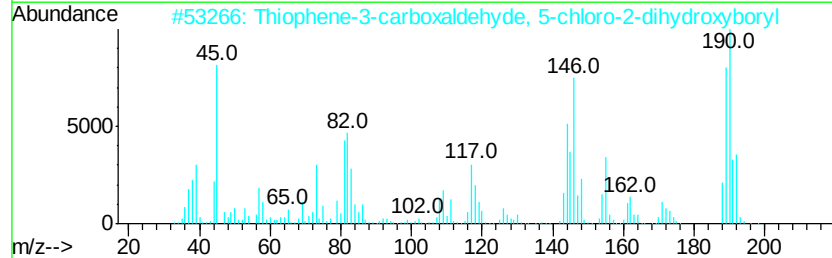
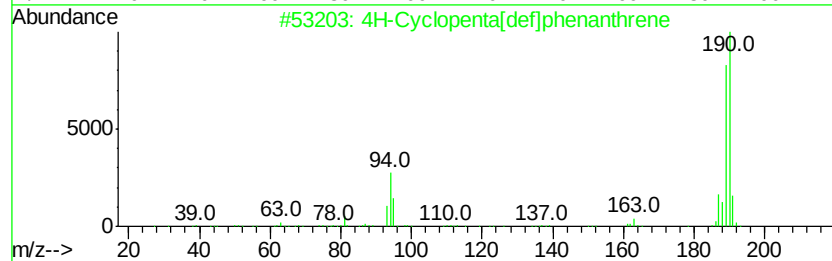
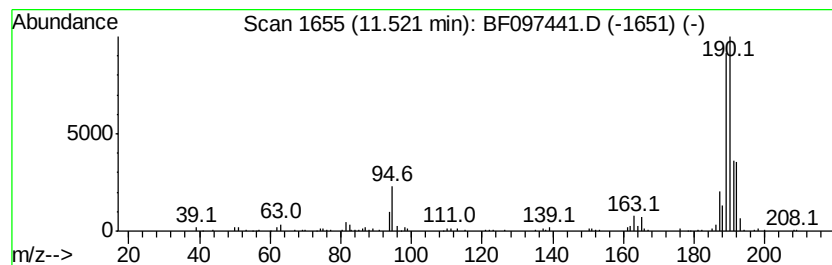
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.52	9.40 ng	302694	Phenanthrene-d10	10.91	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
3	Methyl diselenide	190	C2H6Se2	007101-31-7	38
4	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	28
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	25



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080717\
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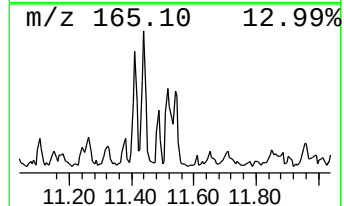
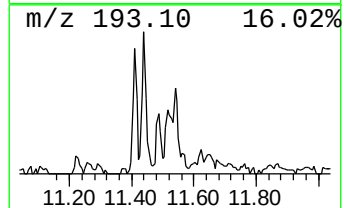
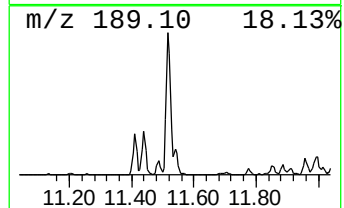
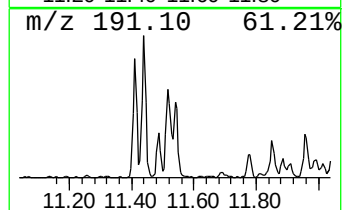
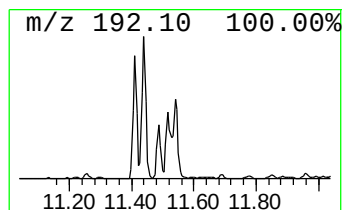
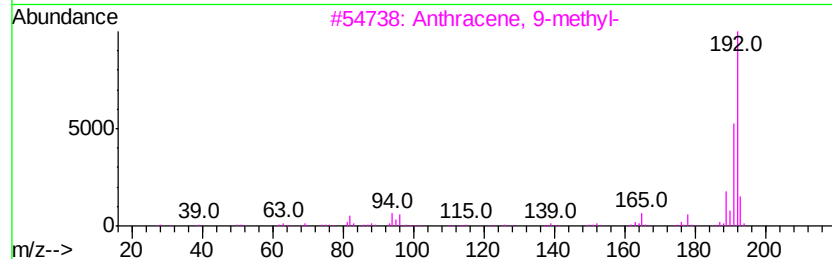
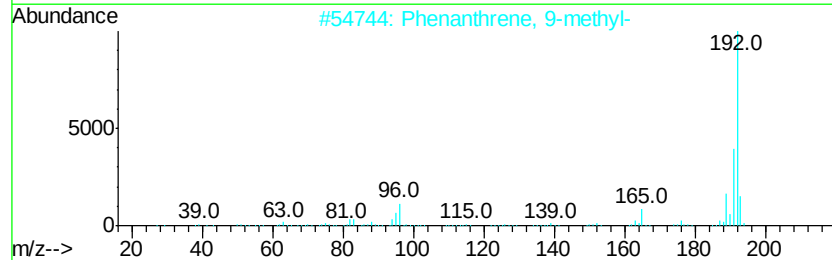
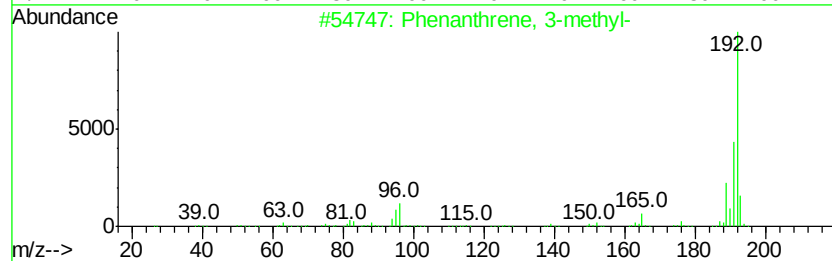
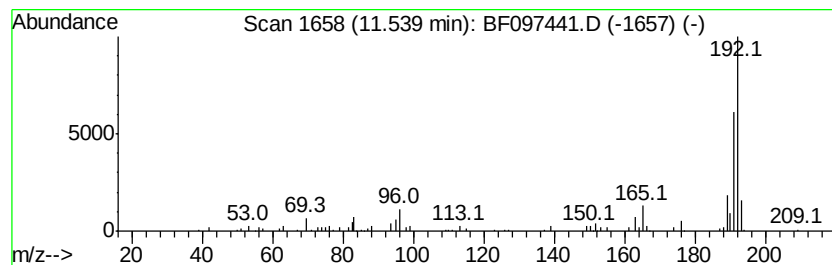
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Phenanthrene, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.54	3.57 ng	115034	Phenanthrene-d10	10.91

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	91
2			Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	90
3			Anthracene, 9-methyl-	192	C15H12	000779-02-2	90
4			1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90
5			5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	90



Data Path : Z:\HPCHEM1\BNA F\DATA\BF080717\
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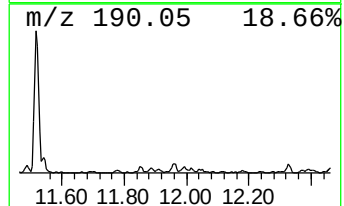
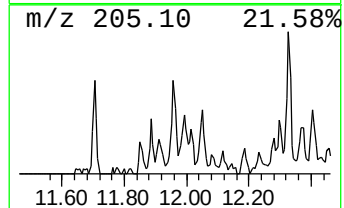
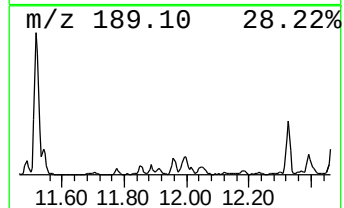
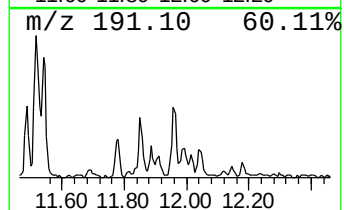
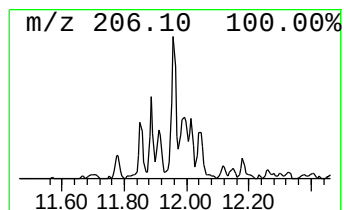
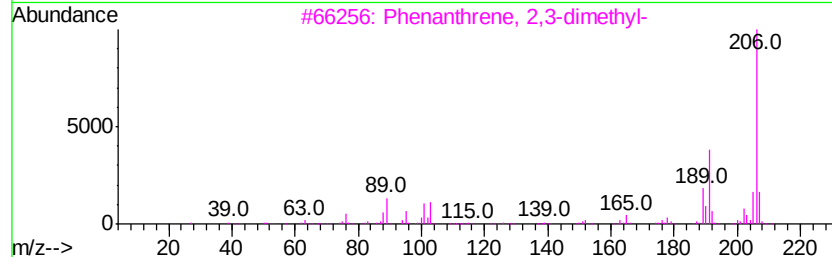
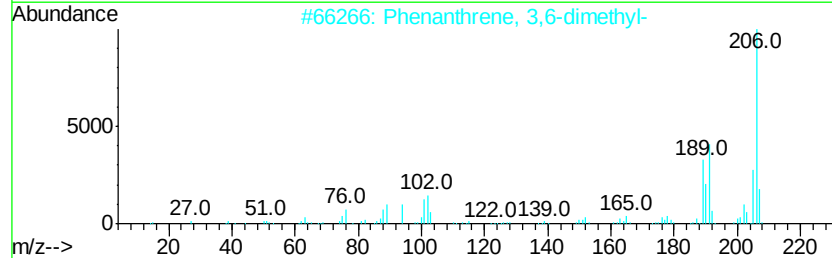
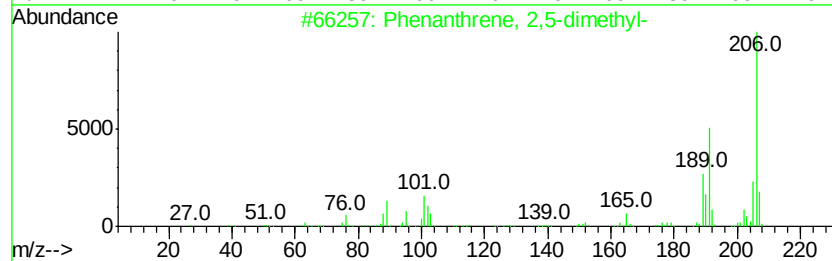
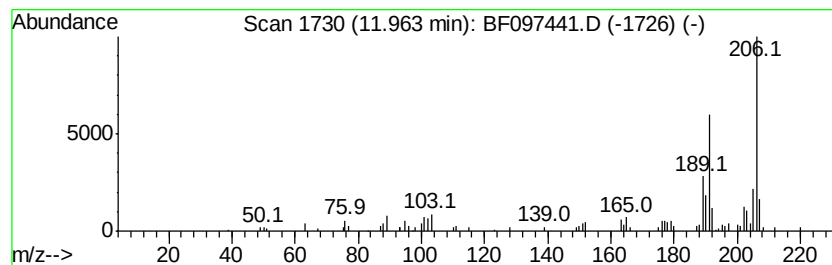
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	3.25 ng	104610	Phenanthrene-d10	10.91

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
3			Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
4			9,10-Dimethylantracene	206	C16H14	000781-43-1	90
5			Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	86



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080717\
Data File : BF097441.D
Acq On : 7 Aug 2017 20:51
Operator : SJ/JU
Sample : I4623-04
Misc :
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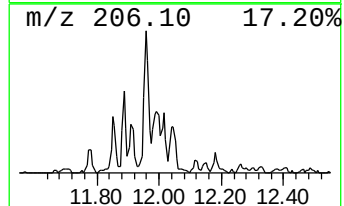
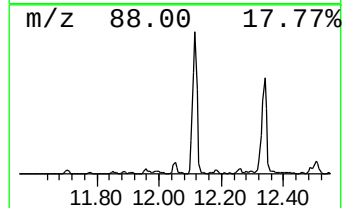
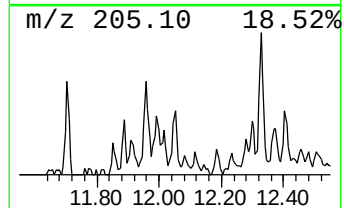
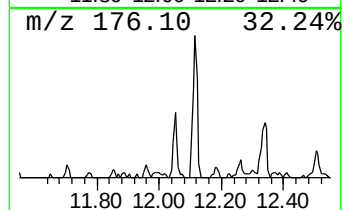
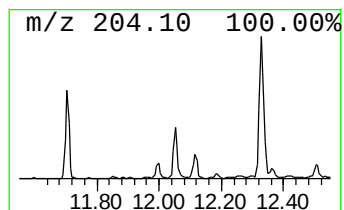
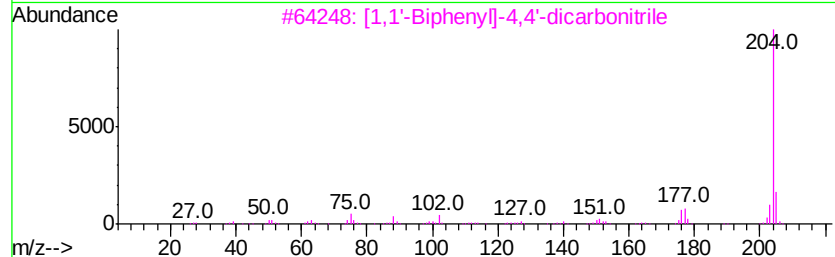
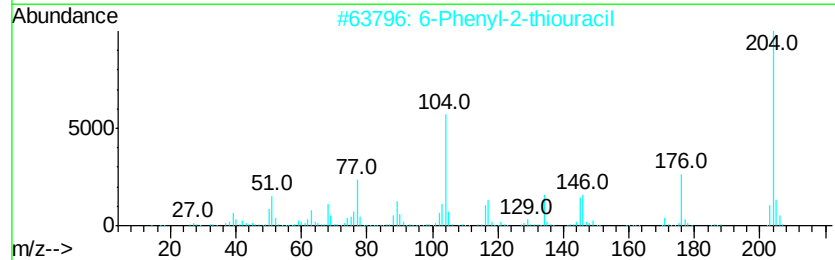
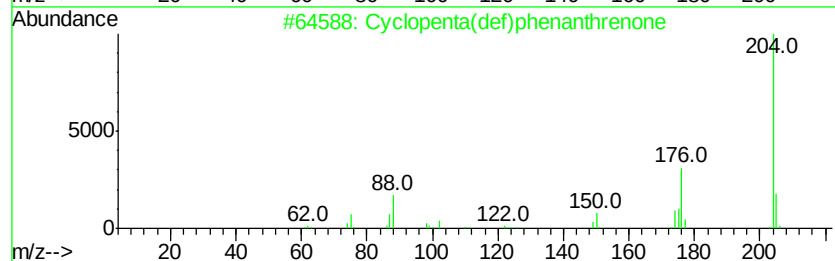
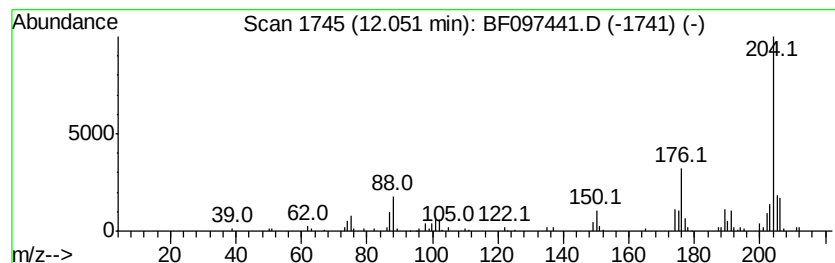
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	3.48 ng	112222	Phenanthrene-d10	10.91

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2		6-Phenyl-2-thiouracil	204	C10H8N2OS	005590-94-3	53
3		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	49
4		Benzo[1,2-b:4,3-b']dithiophene, ...	204	C11H8S2	013640-86-3	43
5		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	42



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080717\
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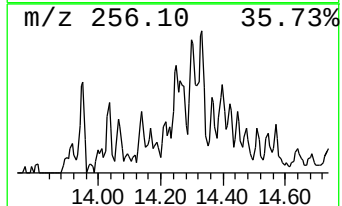
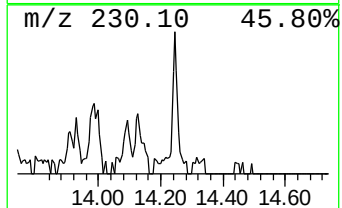
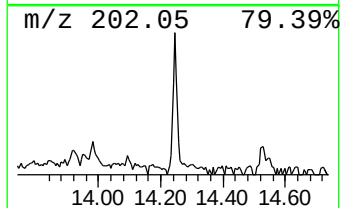
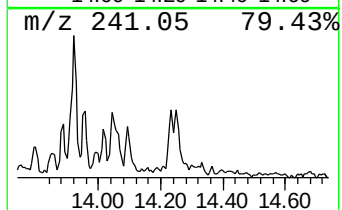
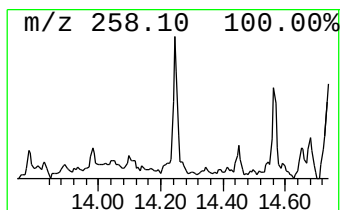
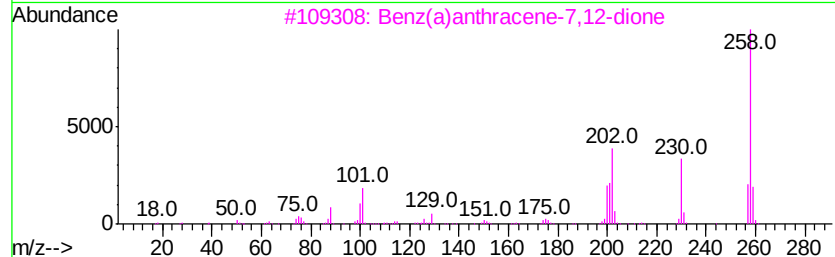
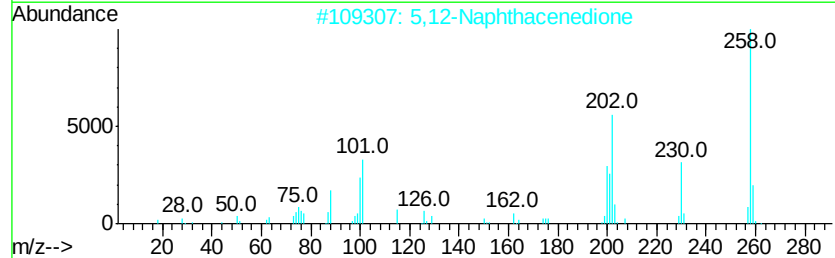
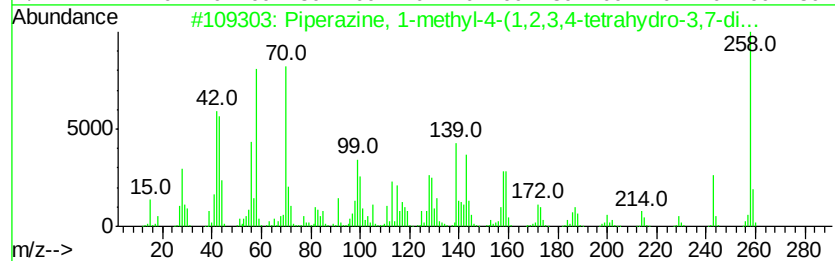
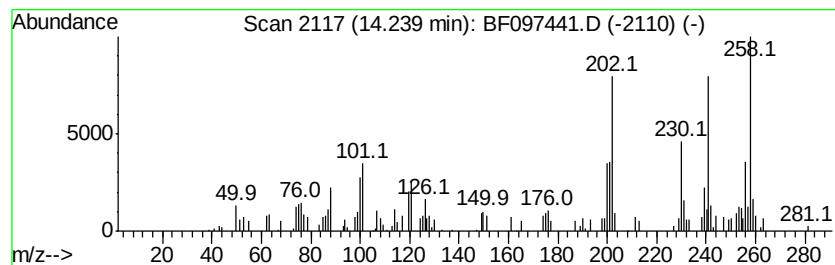
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 13 Piperazine, 1-methyl-4-(1,2... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.24	9.25 ng	189636	Perylene-d12	14.87

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Piperazine, 1-methyl-4-(1,2,3,4-...	258	C17H26N2	055591-14-5	92
2			5,12-Naphthacenedione	258	C18H10O2	001090-13-7	91
3			Benz(a)anthracene-7,12-dione	258	C18H10O2	002498-66-0	83
4			1,4-Chrysenequinone	258	C18H10O2	100900-16-1	55
5			1,8-Anthracenedinitrile, 9,10-di...	258	C16H6N2O2	090866-50-5	46



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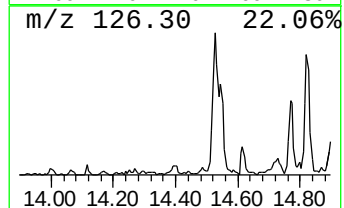
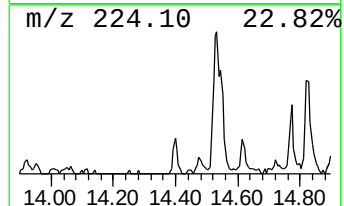
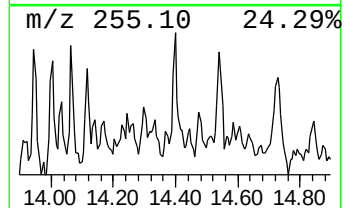
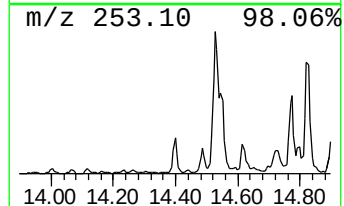
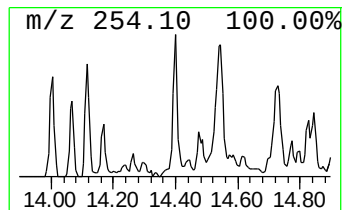
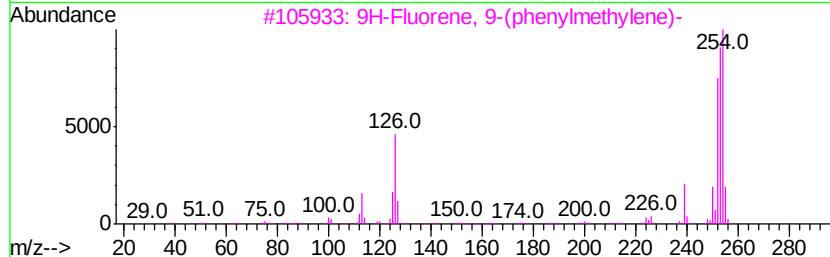
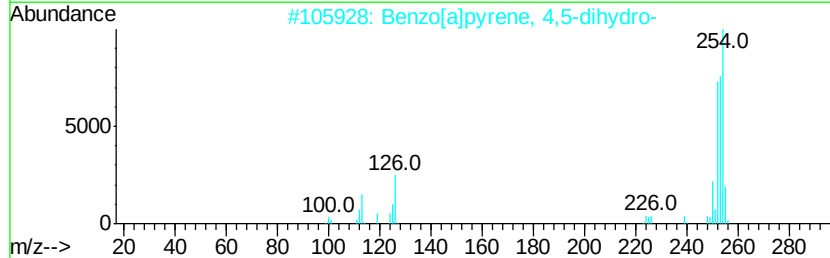
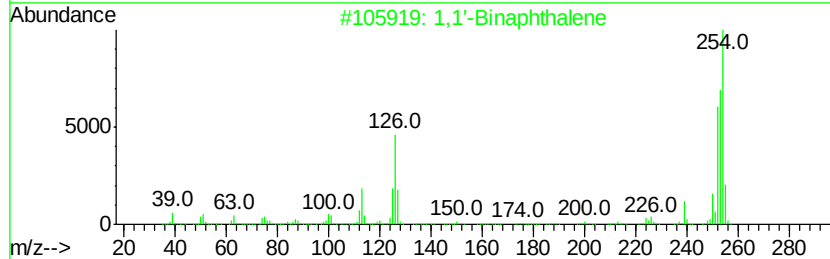
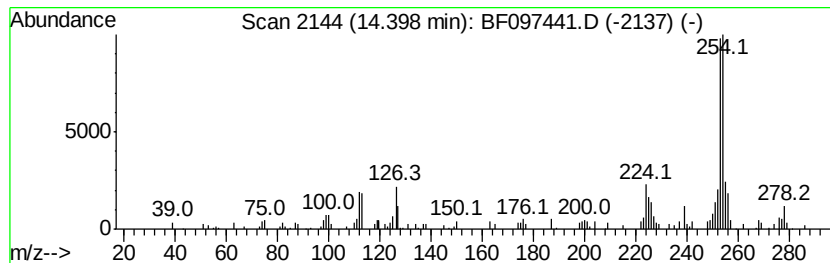
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 1,1'-Binaphthalene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.40	6.31 ng	129452	Perylene-d12	14.87	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Binaphthalene	254	C20H14	000604-53-5	86
2	Benzo[alpyrene, 4,5-dihydro-	254	C20H14	057652-66-1	76
3	9H-Fluorene, 9-(phenylmethvlene)-	254	C20H14	001836-87-9	70
4	4,5-Dihydrobenzo[elpyrene	254	C20H14	095676-42-9	70
5	1H-Indene, 1,1'-(1,2-ethanediyl...	254	C20H14	072088-04-1	68



Data Path : Z:\HPCHEM1\BNA F\DATA\BF080717\
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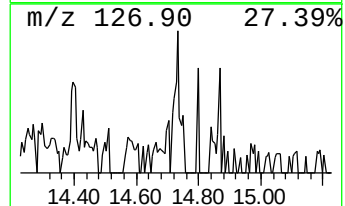
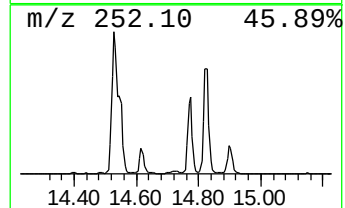
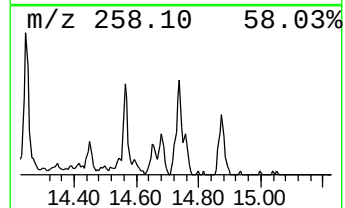
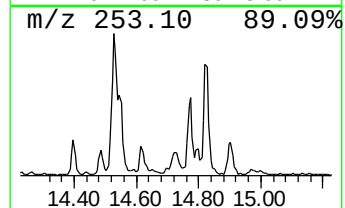
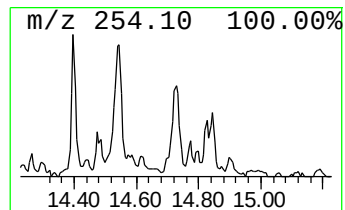
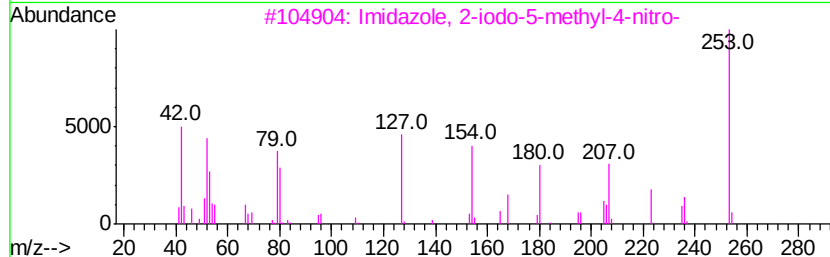
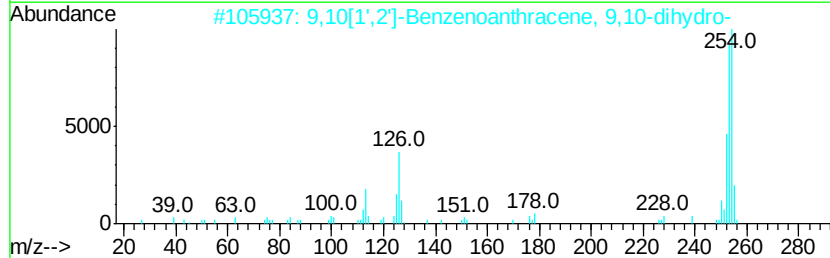
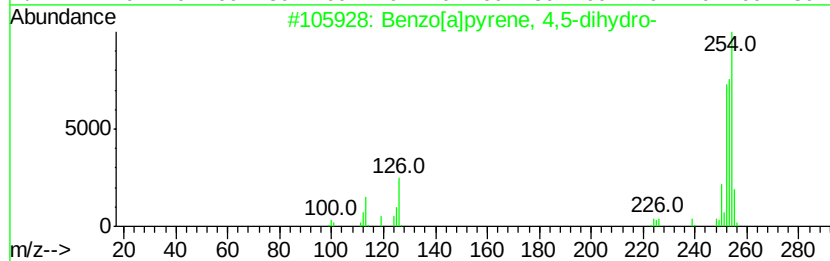
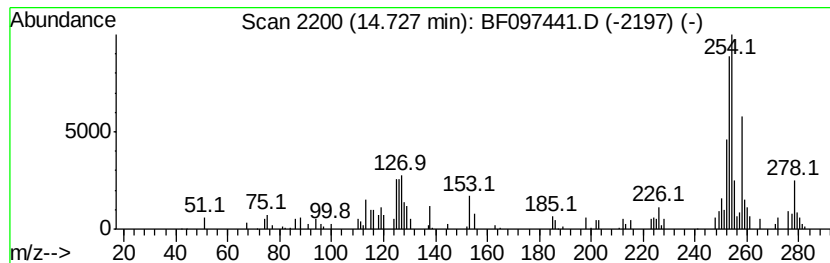
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Benzo[a]pyrene, 4,5-dihydro- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.73	3.91 ng	80156	Perylene-d12	14.87

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[a]pyrene, 4,5-dihydro-	254	C20H14	057652-66-1	78
2		9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	55
3		Imidazole, 2-iodo-5-methyl-4-nitro-	253	C4H4IN3O2	149510-86-1	53
4		1,1'-Binaphthalene	254	C20H14	000604-53-5	53
5		9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	49



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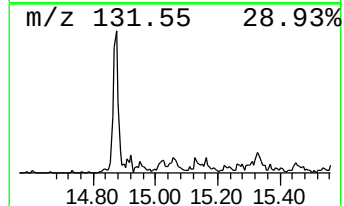
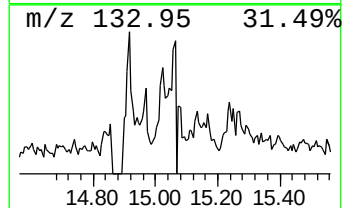
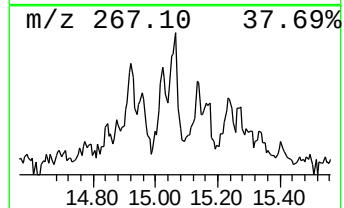
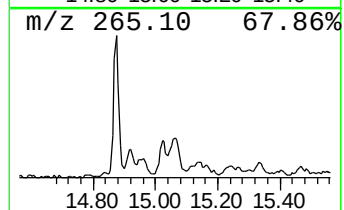
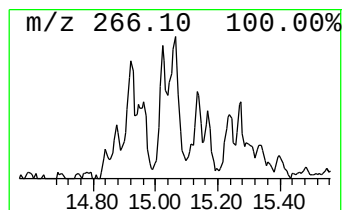
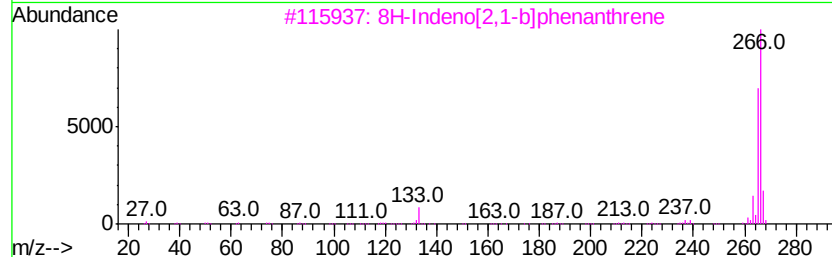
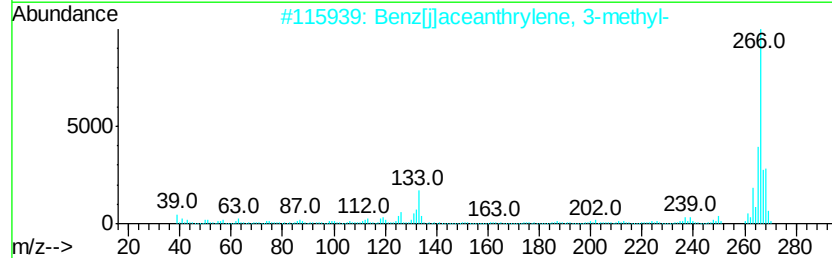
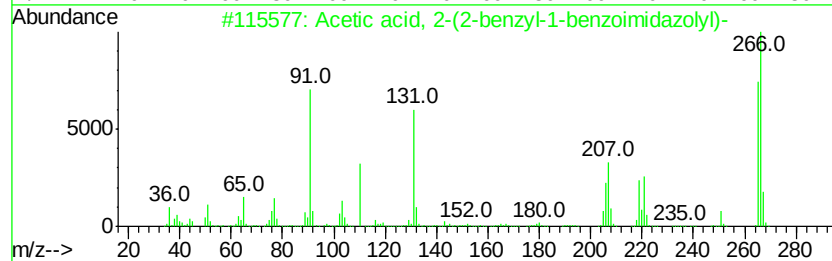
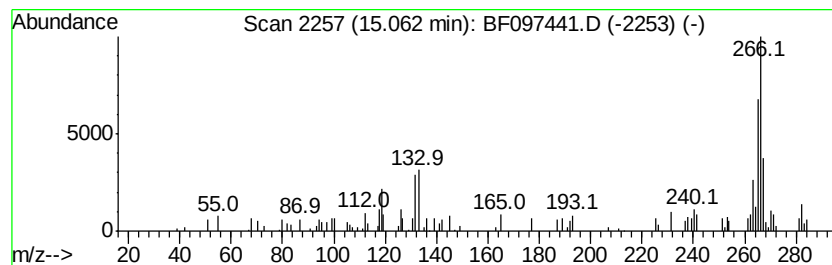
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Acetic acid, 2-(2-benzyl-1-... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.06	3.61 ng	74123	Perylene-d12	14.87

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Acetic acid, 2-(2-benzyl-1-benzo...	266	C16H14N2O2	152342-26-2	59
2		Benz[ilaceanthrylene, 3-methyl-	266	C21H14	003343-10-0	55
3		8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	50
4		4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	47
5		11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	40



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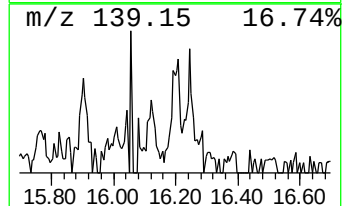
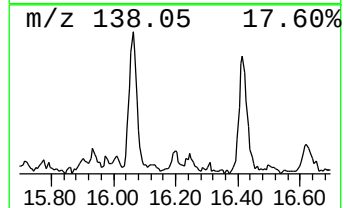
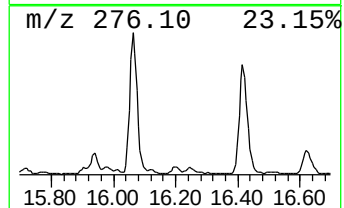
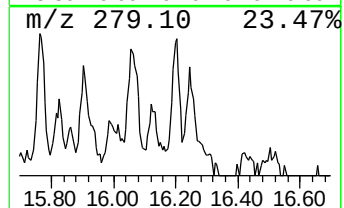
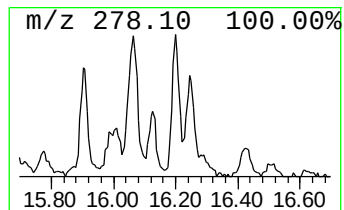
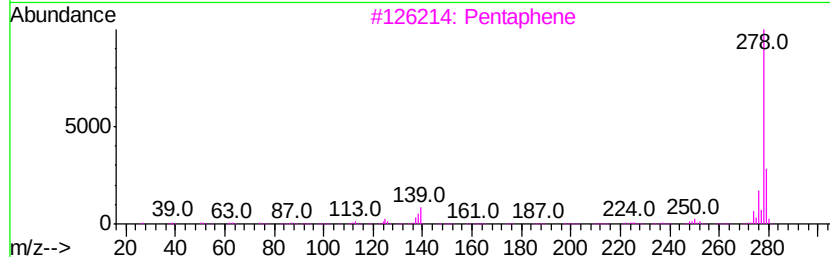
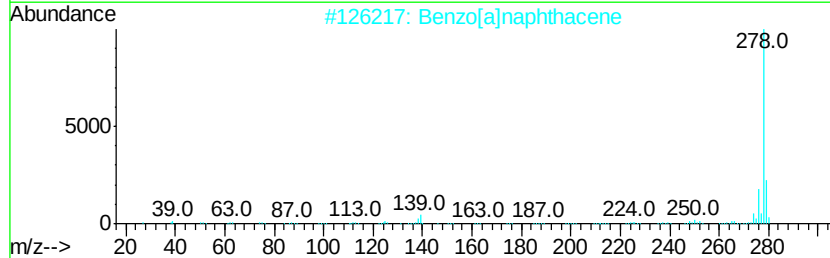
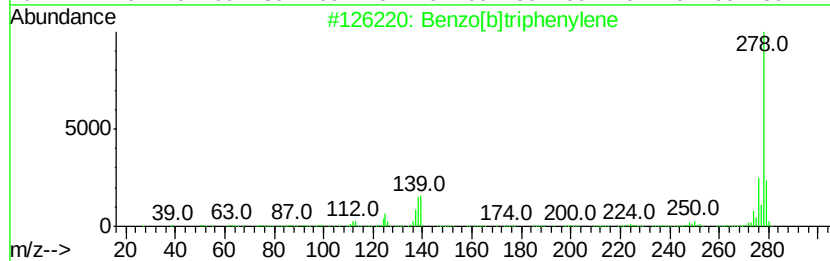
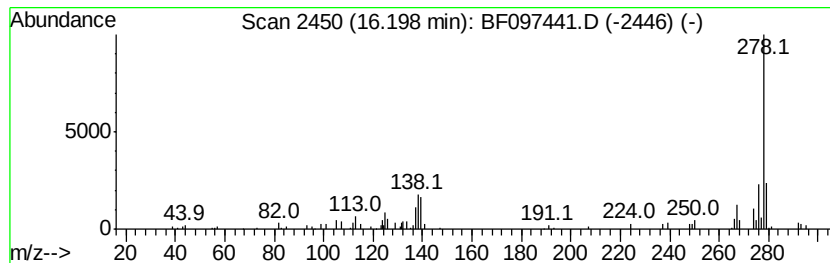
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 18 Benzo[b]triphenylene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.20	3.47 ng	71150	Perylene-d12	14.87

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[b]triphenylene	278	C22H14	000215-58-7	83
2			Benzo[a]naphthacene	278	C22H14	000226-88-0	76
3			Pentaphene	278	C22H14	000222-93-5	70
4			Dibenz[a,h]anthracene	278	C22H14	000053-70-3	70
5			Picene	278	C22H14	000213-46-7	64



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ALS Vial : 17 Sample Multiplier: 1

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ClientSampleId :
TEC-WS

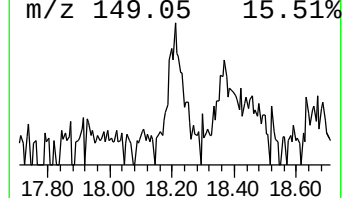
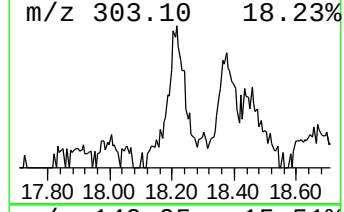
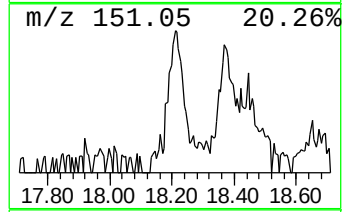
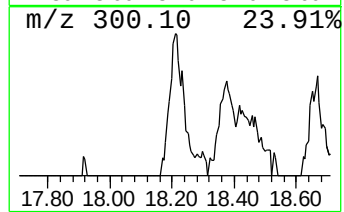
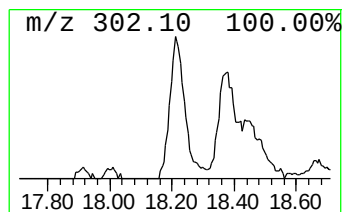
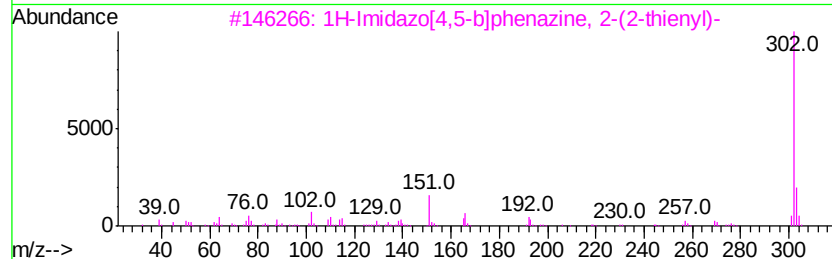
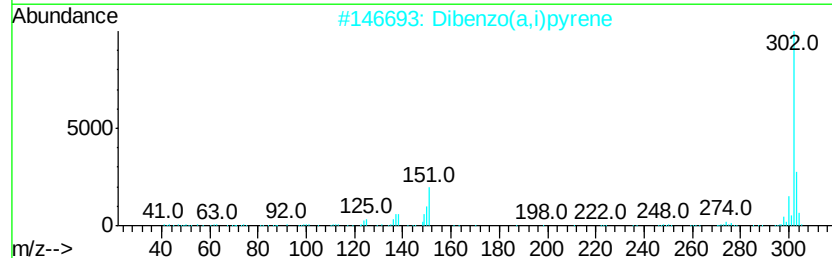
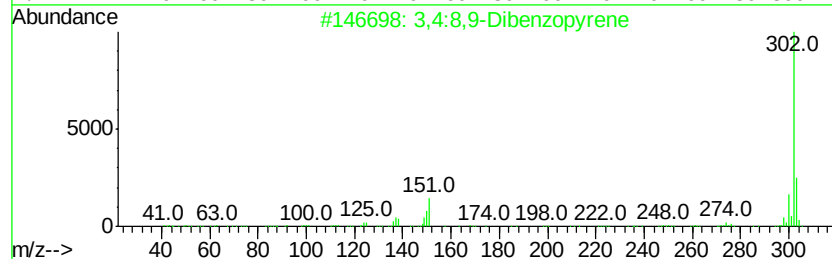
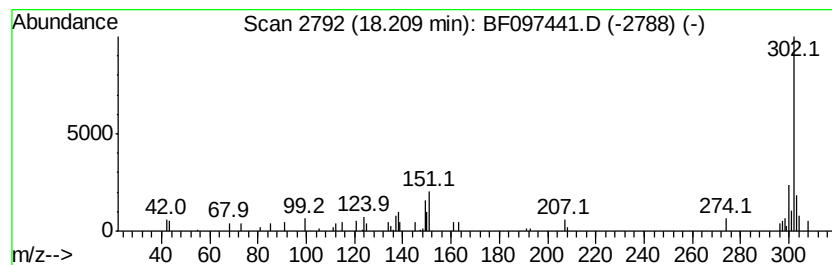
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 3,4:8,9-Dibenzopyrene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.21	3.23 ng	66337	Perylene-d12	14.87

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	62
2		Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	62
3		1H-Imidazo[4,5-b]phenazine, 2-(2...	302	C17H10N4S	1000319-15-8	53
4		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	52
5		Coronene, 1,2-dihydro-	302	C24H14	107716-56-3	50



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080717\
 Data File : BF097441.D
 Acq On : 7 Aug 2017 20:51
 Operator : SJ/JU
 Sample : I4623-04
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TEC-WS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Acetic acid, 1,1-...	4.53	6.8 ng		205069	1	6.41	603929	20.0
unknown6.19	6.19	68.5 ng		2067750	1	6.41	603929	20.0
Nonadecane, 9-met...	10.36	4.0 ng		129688	4	10.91	644268	20.0
Naphtho[2,3-b]thi...	10.80	3.7 ng		119819	4	10.91	644268	20.0
Phenanthrene, 2-m...	11.41	4.8 ng		156206	4	10.91	644268	20.0
Phenanthrene, 1-m...	11.44	6.0 ng		194228	4	10.91	644268	20.0
Anthracene, 1-met...	11.49	3.6 ng		115453	4	10.91	644268	20.0
4H-Cyclopenta[def...	11.52	9.4 ng		302694	4	10.91	644268	20.0
Phenanthrene, 3-m...	11.54	3.6 ng		115034	4	10.91	644268	20.0
Phenanthrene, 2,5...	11.96	3.3 ng		104610	4	10.91	644268	20.0
Cyclopenta(def)ph...	12.05	3.5 ng		112222	4	10.91	644268	20.0
Piperazine, 1-met...	14.24	9.3 ng		189636	6	14.87	410127	20.0
1,1'-Binaphthalene	14.40	6.3 ng		129452	6	14.87	410127	20.0
Benzo[a]pyrene, 4...	14.73	3.9 ng		80156	6	14.87	410127	20.0
Acetic acid, 2-(2...	15.06	3.6 ng		74123	6	14.87	410127	20.0
Benzo[b]triphenylene	16.20	3.5 ng		71150	6	14.87	410127	20.0
3,4:8,9-Dibenzopy...	18.21	3.2 ng		66337	6	14.87	410127	20.0