

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080817\
 Data File : BF097490.D
 Acq On : 9 Aug 2017 1:23
 Operator : SJ/JU
 Sample : I4657-10
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-080717-D

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	4.522	462	465	477	rBV	81702	154250	3.37%	0.249%
2	4.992	542	545	570	rBV	1207128	1763243	38.58%	2.849%
3	6.075	726	729	743	rBV	1402123	1787360	39.10%	2.888%
4	6.181	743	747	753	rVV	1893140	1887869	41.30%	3.051%
5	6.404	782	785	794	rBV	593316	557812	12.20%	0.901%
6	6.557	808	811	820	rBV	1132244	1170092	25.60%	1.891%
7	6.975	879	882	889	rBV	904678	930511	20.36%	1.504%
8	7.686	1000	1003	1016	rBV	825126	791995	17.33%	1.280%
9	8.769	1183	1187	1190	rBV	1381428	1238615	27.10%	2.001%
10	9.098	1240	1243	1246	rBV	112279	117215	2.56%	0.189%
11	9.169	1252	1255	1260	rVV	310057	269547	5.90%	0.436%
12	9.292	1272	1276	1282	rBV	330632	341513	7.47%	0.552%
13	9.433	1296	1300	1303	rBV	603526	546024	11.95%	0.882%
14	9.463	1303	1305	1311	rVB	191657	167284	3.66%	0.270%
15	9.639	1331	1335	1339	rVB	182571	172576	3.78%	0.279%
16	9.751	1351	1354	1357	rBV	105774	107217	2.35%	0.173%
17	9.839	1365	1369	1371	rBV2	72014	96995	2.12%	0.157%
18	9.886	1375	1377	1381	rBV	105145	97723	2.14%	0.158%
19	9.974	1389	1392	1395	rVV2	313854	292802	6.41%	0.473%
20	10.045	1399	1404	1405	rVV	97292	135877	2.97%	0.220%
21	10.092	1409	1412	1413	rVV3	81218	89560	1.96%	0.145%
22	10.139	1417	1420	1425	rVB2	162763	199617	4.37%	0.323%
23	10.222	1430	1434	1438	rVV	937701	936261	20.48%	1.513%
24	10.263	1438	1441	1446	rVB4	68574	86705	1.90%	0.140%
25	10.351	1453	1456	1462	rVB3	123302	204663	4.48%	0.331%
26	10.522	1481	1485	1488	rBV2	148018	195103	4.27%	0.315%
27	10.551	1488	1490	1493	rVV2	134257	121856	2.67%	0.197%
28	10.604	1497	1499	1502	rVB3	110650	105163	2.30%	0.170%
29	10.657	1505	1508	1509	rVV	104024	97944	2.14%	0.158%
30	10.674	1509	1511	1513	rVV2	126368	111233	2.43%	0.180%
31	10.727	1517	1520	1524	rVB	134575	126096	2.76%	0.204%
32	10.763	1524	1526	1530	rBV	156472	165731	3.63%	0.268%
33	10.804	1530	1533	1536	rBV	249946	215878	4.72%	0.349%
34	10.910	1547	1551	1552	rBV	537720	531636	11.63%	0.859%

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35	10.933	1552	1555	1559	rVV	2433957	2627376	57.48%	4.246%
36	10.986	1559	1564	1567	rVV	1042300	983807	21.52%	1.590%
37	11.027	1567	1571	1573	rVV2	144143	180895	3.96%	0.292%
38	11.069	1576	1578	1584	rVV4	77378	130954	2.87%	0.212%
39	11.151	1588	1592	1593	rBV4	78126	90570	1.98%	0.146%
40	11.169	1593	1595	1598	rVV2	87031	113641	2.49%	0.184%
41	11.204	1598	1601	1603	rVB	134101	129425	2.83%	0.209%
42	11.233	1603	1606	1609	rBV2	196400	227924	4.99%	0.368%
43	11.316	1618	1620	1624	rVB	113477	132790	2.91%	0.215%
44	11.410	1632	1636	1638	rVV	721473	666659	14.59%	1.077%
45	11.439	1638	1641	1644	rVB	951969	812318	17.77%	1.313%
46	11.486	1644	1649	1651	rBV	499974	518893	11.35%	0.838%
47	11.516	1651	1654	1657	rVV	1232940	1356019	29.67%	2.191%
48	11.539	1657	1658	1662	rVB	616017	404543	8.85%	0.654%
49	11.604	1665	1669	1671	rBV3	64699	100513	2.20%	0.162%
50	11.645	1673	1676	1679	rVV4	150806	182961	4.00%	0.296%
51	11.704	1683	1686	1690	rVV	528811	580487	12.70%	0.938%
52	11.745	1690	1693	1696	rVB3	232314	247678	5.42%	0.400%
53	11.851	1709	1711	1714	rBV	241791	185989	4.07%	0.301%
54	11.886	1714	1717	1719	rBV	212648	199938	4.37%	0.323%
55	11.910	1719	1721	1724	rVB	186233	165418	3.62%	0.267%
56	11.957	1725	1729	1732	rBV	658491	788818	17.26%	1.275%
57	11.998	1732	1736	1738	rVB	256284	280779	6.14%	0.454%
58	12.057	1742	1746	1749	rVB2	418479	515641	11.28%	0.833%
59	12.133	1753	1759	1762	rBV	2985960	4189681	91.66%	6.770%
60	12.168	1762	1765	1766	rBV	156987	139586	3.05%	0.226%
61	12.263	1777	1781	1787	rBV2	358700	506272	11.08%	0.818%
62	12.357	1791	1797	1800	rBV3	2786246	4570726	100.00%	7.386%
63	12.404	1801	1805	1809	rVB2	238904	380856	8.33%	0.615%
64	12.463	1812	1815	1817	rBV	304976	291984	6.39%	0.472%
65	12.492	1817	1820	1823	rVV	968397	941765	20.60%	1.522%
66	12.568	1827	1833	1839	rBV3	501047	930392	20.36%	1.503%
67	12.621	1839	1842	1844	rBV3	123337	135337	2.96%	0.219%
68	12.651	1844	1847	1849	rBV2	380470	531423	11.63%	0.859%
69	12.674	1849	1851	1854	rVB	854362	774106	16.94%	1.251%
70	12.739	1854	1862	1865	rBV	570715	709189	15.52%	1.146%
71	12.774	1865	1868	1872	rBV	689478	841205	18.40%	1.359%

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72	12.868	1881	1884	1886	rVB	485794	398120	8.71%	0.643%
73	12.898	1886	1889	1892	rBV	514385	478624	10.47%	0.773%
74	13.092	1917	1922	1924	rBV4	195413	332214	7.27%	0.537%
75	13.157	1931	1933	1935	rBV2	137711	143617	3.14%	0.232%
76	13.192	1936	1939	1942	rVV	417139	400745	8.77%	0.648%
77	13.239	1945	1947	1951	rBV2	107406	106434	2.33%	0.172%
78	13.292	1951	1956	1957	rBV	504711	639293	13.99%	1.033%
79	13.310	1957	1959	1962	rVB	404813	350241	7.66%	0.566%
80	13.339	1962	1964	1966	rBV	365443	295039	6.45%	0.477%
81	13.398	1971	1974	1979	rVV	323907	401351	8.78%	0.649%
82	13.539	1992	1998	2001	rBV2	1808965	2991392	65.45%	4.834%
83	13.574	2001	2004	2007	rVV	1835070	1984304	43.41%	3.206%
84	13.645	2011	2016	2019	rBV2	441811	499522	10.93%	0.807%
85	13.892	2055	2058	2060	rBV	152805	169002	3.70%	0.273%
86	13.927	2062	2064	2067	rVV	604529	625050	13.68%	1.010%
87	13.962	2067	2070	2072	rVB	362857	319783	7.00%	0.517%
88	14.051	2083	2085	2087	rBV	384040	302415	6.62%	0.489%
89	14.257	2117	2120	2125	rVB4	195735	282985	6.19%	0.457%
90	14.545	2164	2169	2177	rVB	1221617	2563653	56.09%	4.143%
91	14.627	2181	2183	2189	rVB	249699	233433	5.11%	0.377%
92	14.786	2206	2210	2214	rVB	831842	957453	20.95%	1.547%
93	14.845	2215	2220	2224	rBV	1098055	1364900	29.86%	2.206%
94	14.886	2224	2227	2229	rVV	269594	313707	6.86%	0.507%
95	14.915	2229	2232	2238	rVB2	415130	549374	12.02%	0.888%
96	15.251	2284	2289	2292	rBV5	175129	340281	7.44%	0.550%
97	15.409	2314	2316	2324	rVB5	204234	336530	7.36%	0.544%
98	16.086	2426	2431	2438	rVB	542030	1012955	22.16%	1.637%
99	16.445	2487	2492	2499	rVB	494320	926891	20.28%	1.498%
100	17.068	2595	2598	2608	rBV	58838	185201	4.05%	0.299%

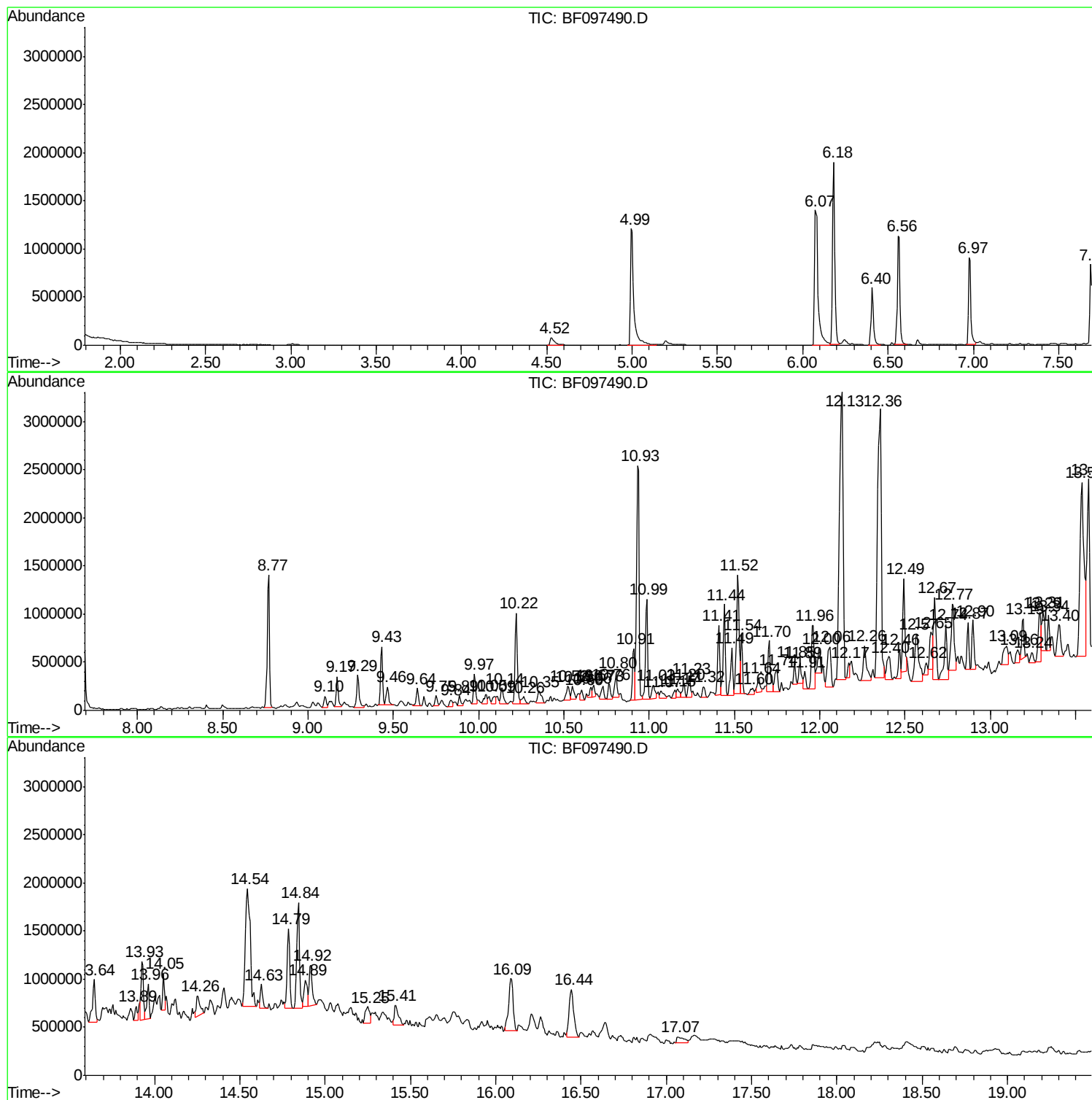
Sum of corrected areas: 61885033

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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



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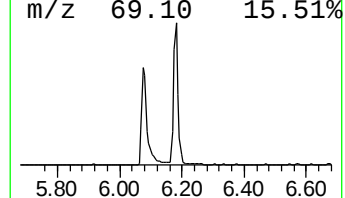
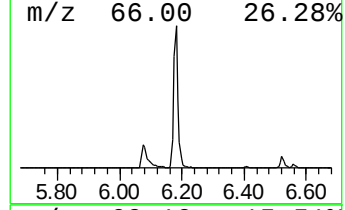
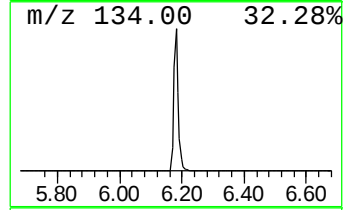
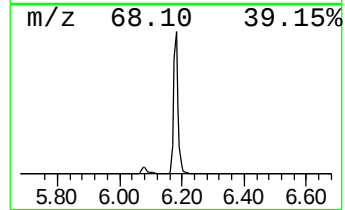
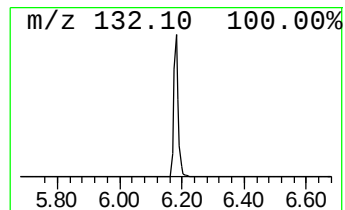
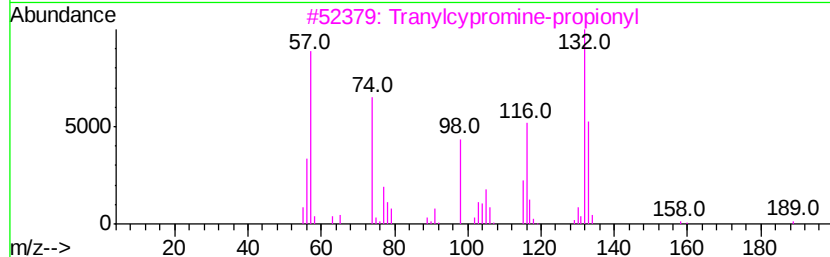
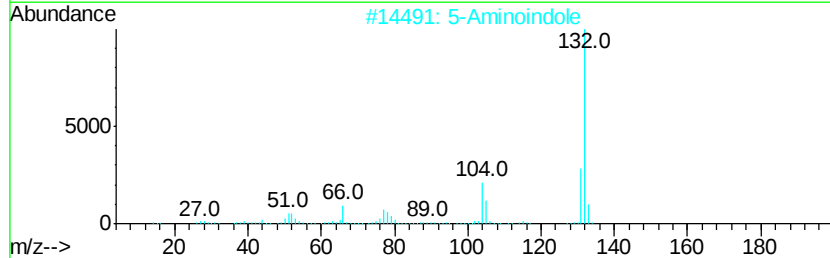
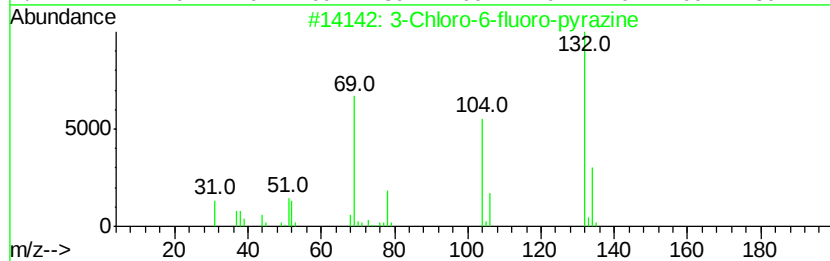
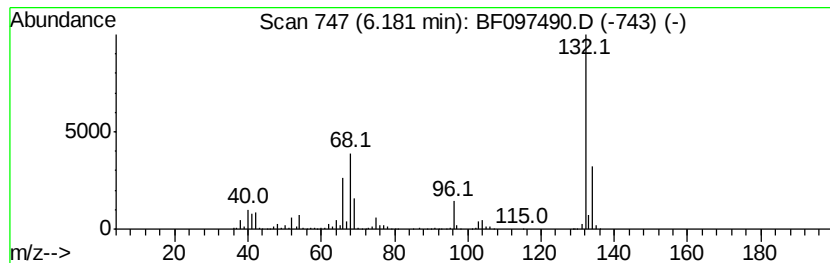
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown6.18 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.18	67.69 ng	1887870	1,4-Dichlorobenzene-d4	6.40

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			Tranvlcypropine-propionyl	189	C12H15NO	1000123-86-3	10
4			Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5			5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9



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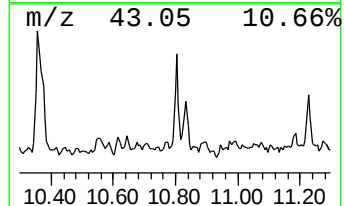
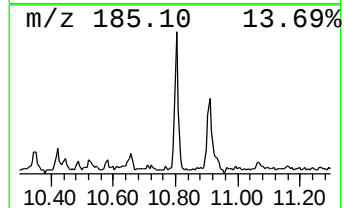
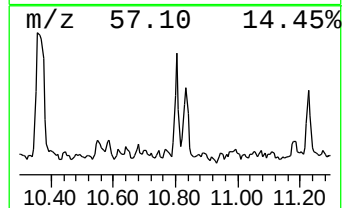
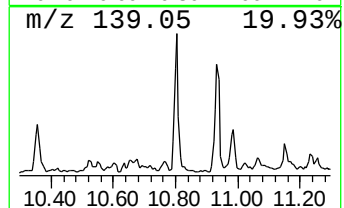
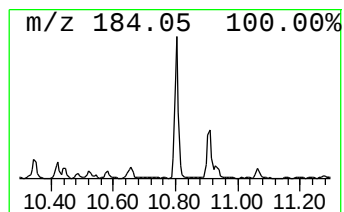
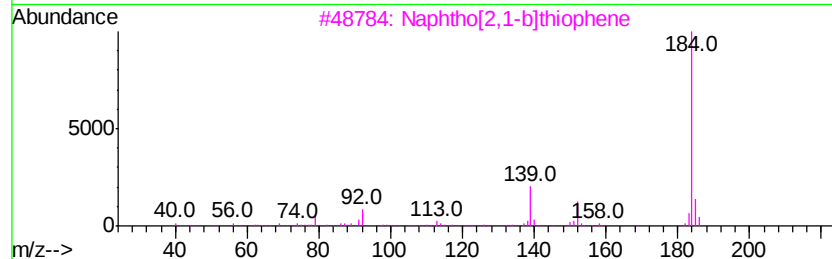
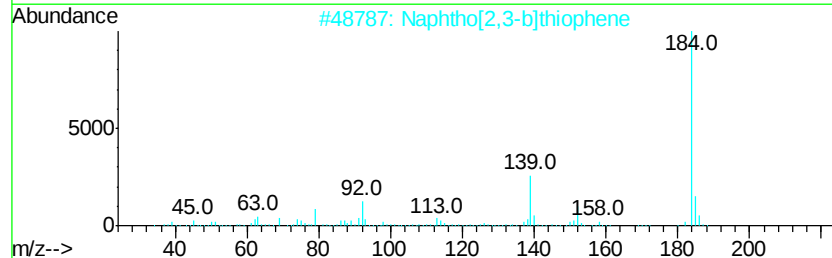
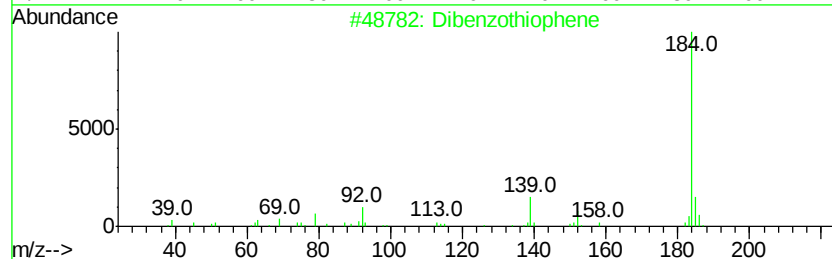
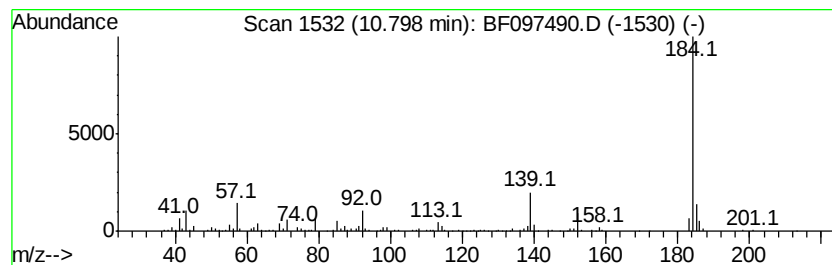
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Dibenzothiophene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.80	8.12 ng	215878	Phenanthrene-d10	10.91

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzothiophene	184	C12H8S	000132-65-0	97
2		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
3		Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	94
4		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
5		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	91



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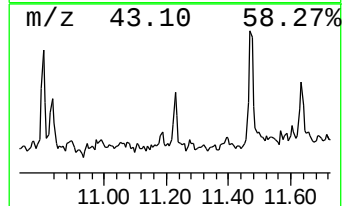
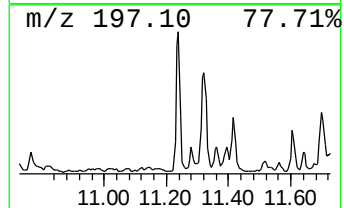
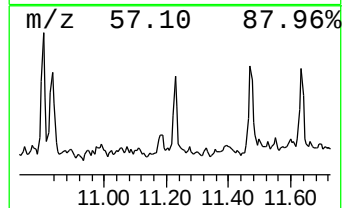
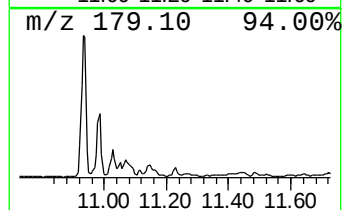
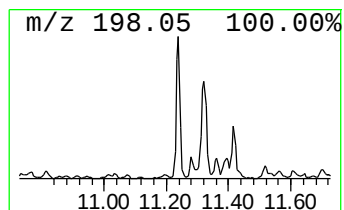
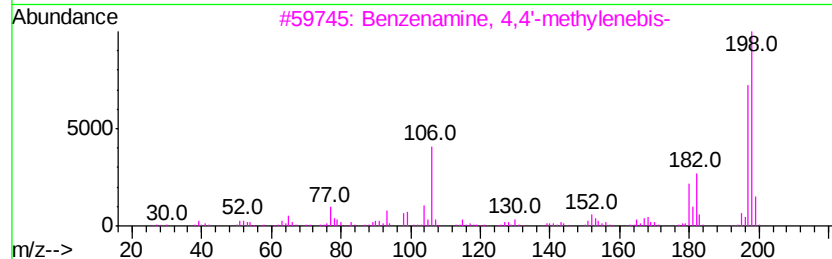
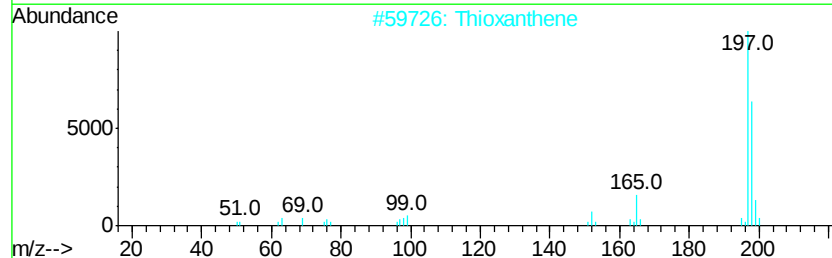
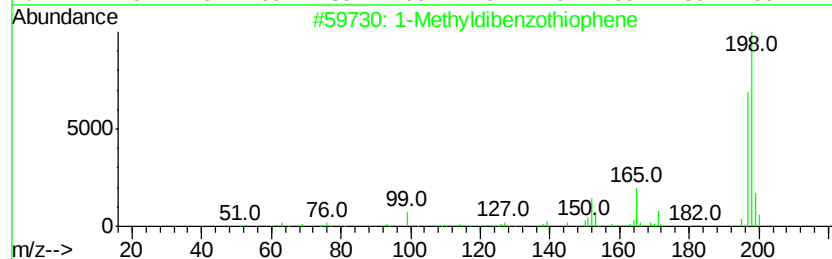
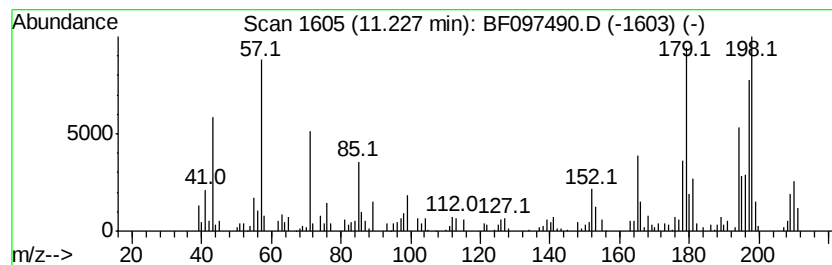
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TIC Integration Parameters: LSCINT.P

Peak Number 4 1-Methyldibenzothiophene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	8.57 ng	227924	Phenanthrene-d10	10.91

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		1-Methyldibenzothiophene	198	C13H10S	031317-07-4	90
2		Thioxanthene	198	C13H10S	000261-31-4	90
3		Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	76
4		Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	76
5		Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	70



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080817\
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Acq On : 9 Aug 2017 1:23
Operator : SJ/JU
Sample : I4657-10
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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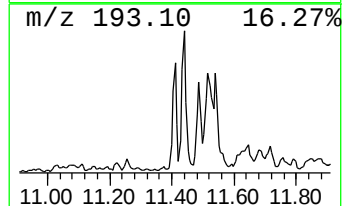
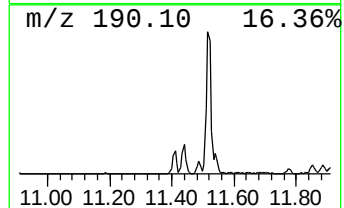
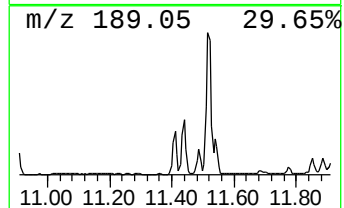
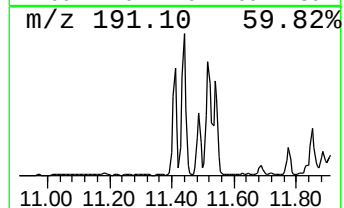
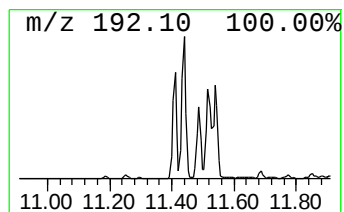
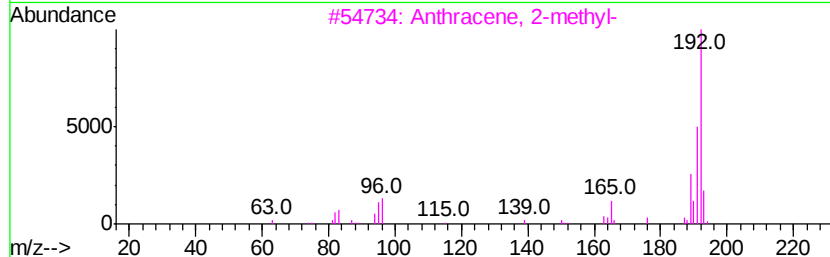
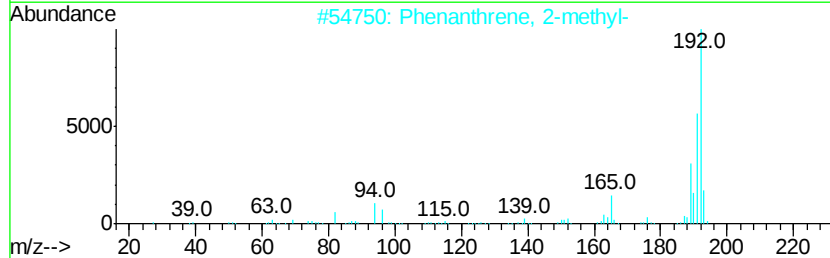
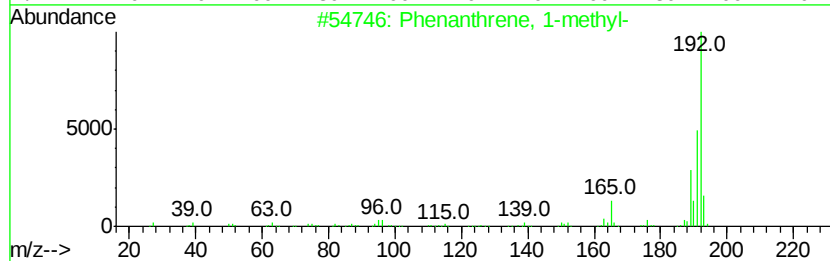
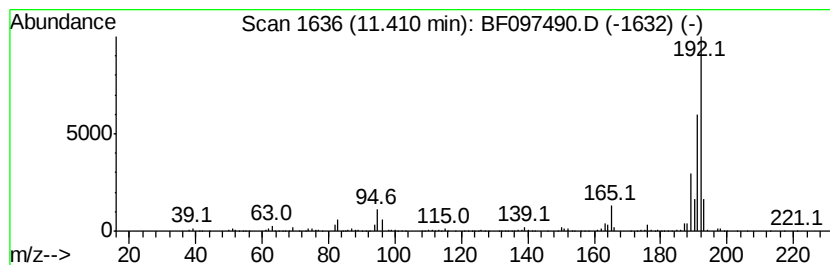
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.41	25.08 ng	666659	Phenanthrene-d10	10.91

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
2		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
4		Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
5		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080817\
Data File : BF097490.D
Acq On : 9 Aug 2017 1:23
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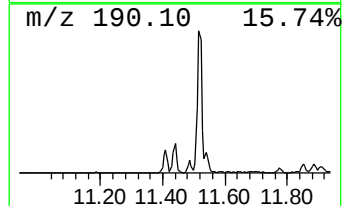
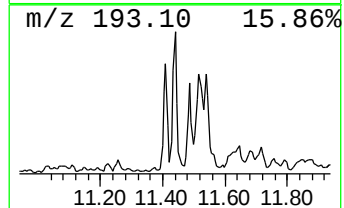
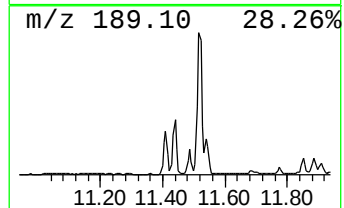
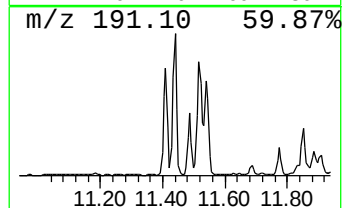
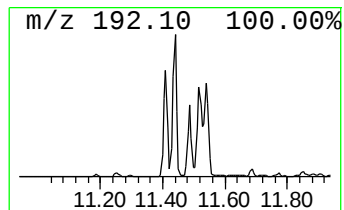
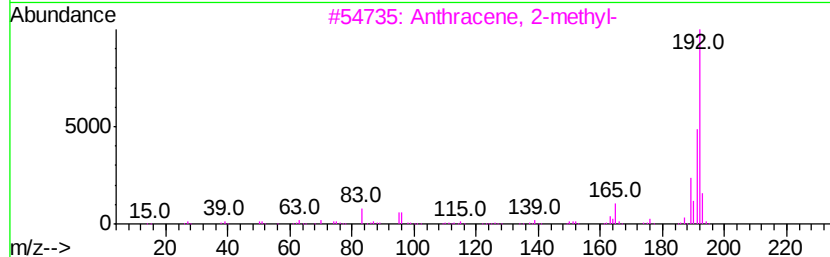
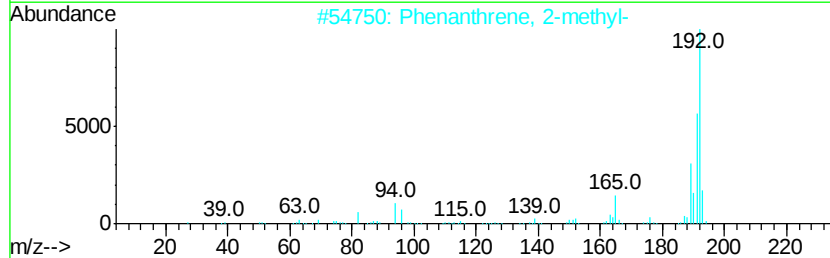
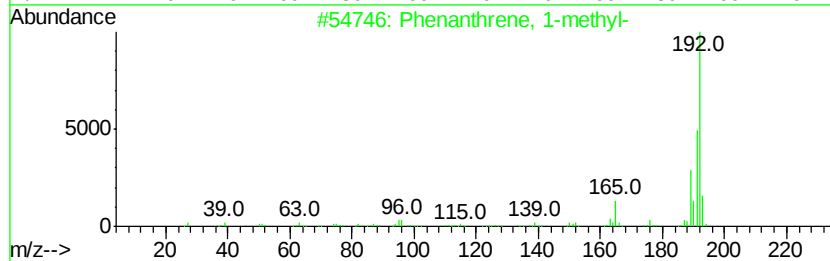
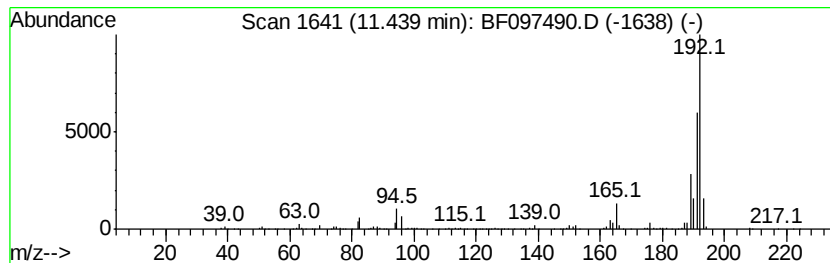
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Anthracene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.44	30.56 ng	812318	Phenanthrene-d10	10.91

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	1H-Cyclopropa[1]phenanthrene, 1a, ...	192	C15H12	000949-41-7	95



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080817\
Data File : BF097490.D
Acq On : 9 Aug 2017 1:23
Operator : SJ/JU
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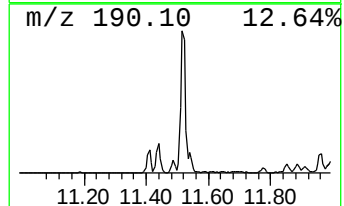
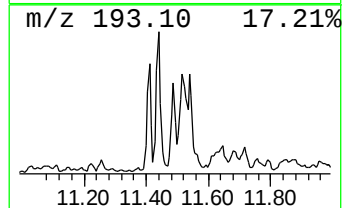
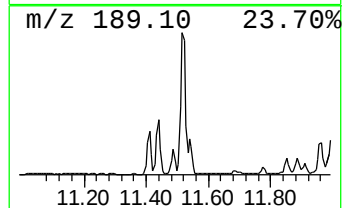
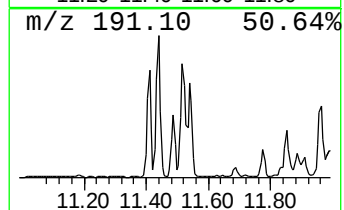
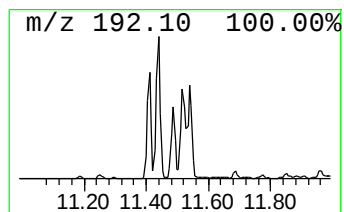
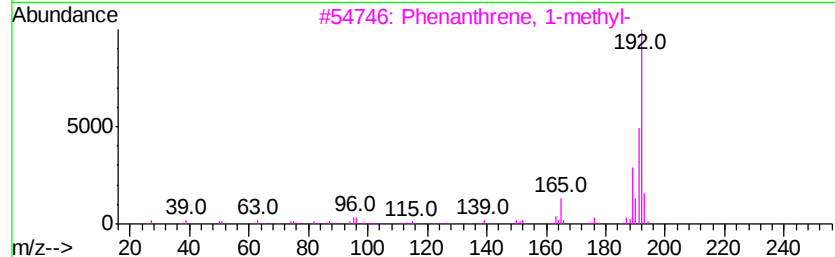
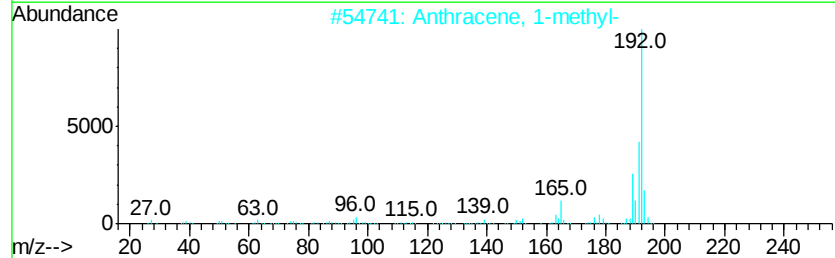
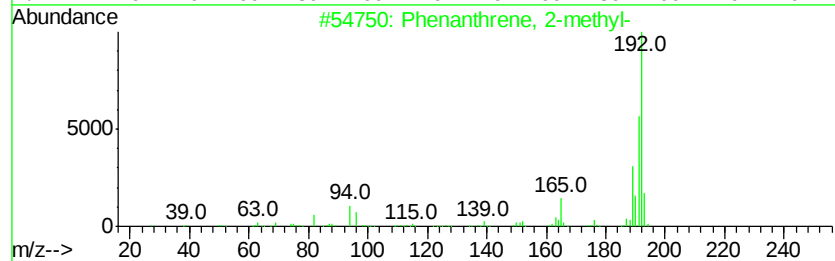
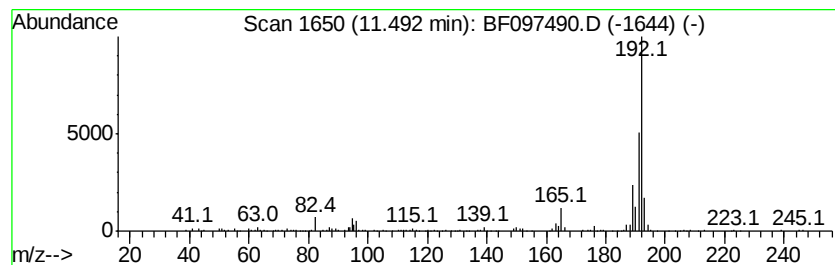
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.49	19.52 ng	518893	Phenanthrene-d10	10.91

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2		Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
3		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4		1H-Cyclopropa[1,1]phenanthrene, 1a,...	192	C15H12	000949-41-7	96
5		Anthracene, 2-methyl-	192	C15H12	000613-12-7	96



Data Path : Z:\HPCHEM1\BNA F\DATA\BF080817\
Data File : BF097490.D
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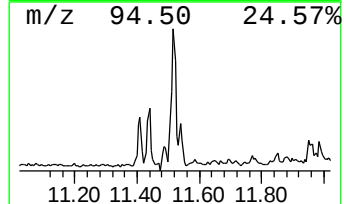
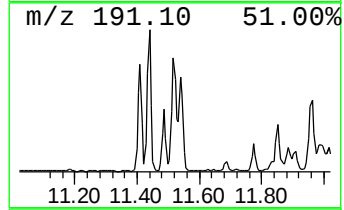
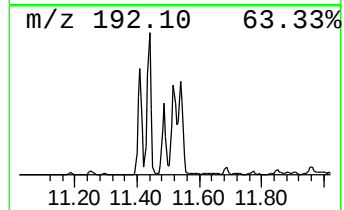
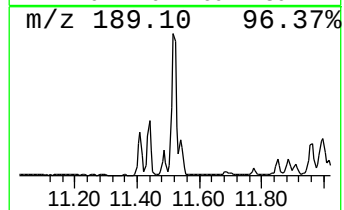
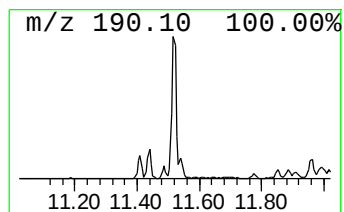
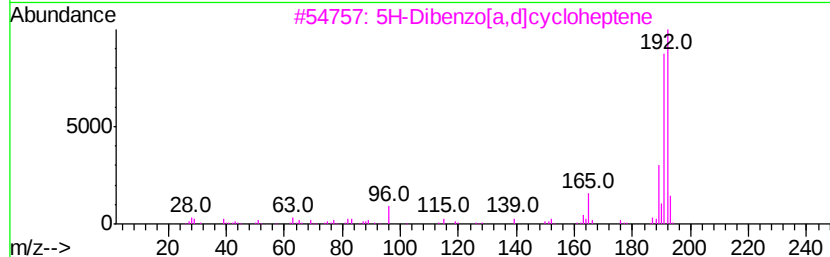
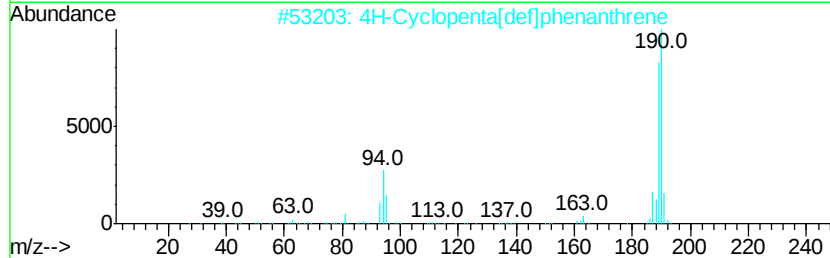
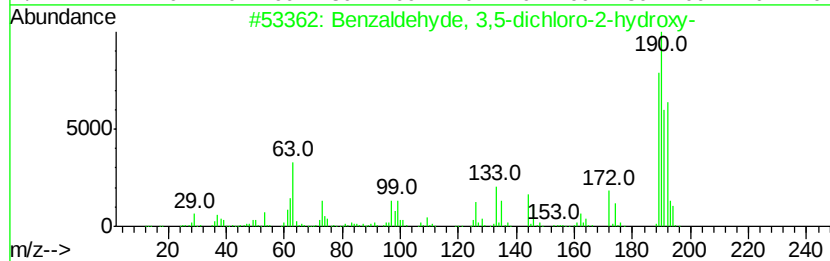
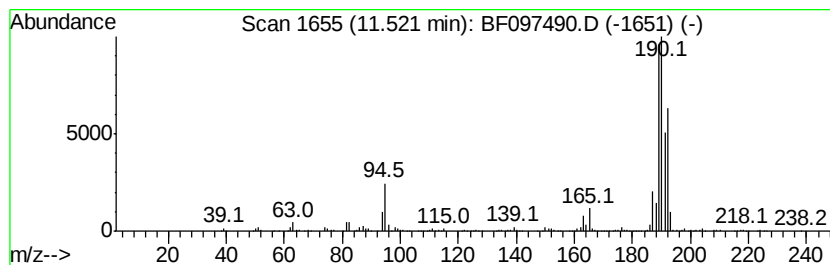
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Benzaldehyde, 3,5-dichloro-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.52	51.01 ng	1356020	Phenanthrene-d10	10.91

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	64
2		4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	53
3		5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	38
4		8,9-Dihydrocyclopenta[def]phenan...	192	C15H12	027410-55-5	38
5		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	38



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080817\
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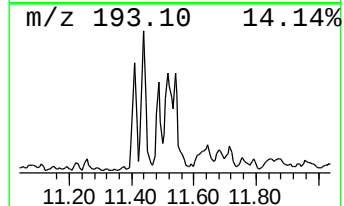
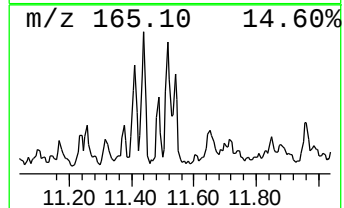
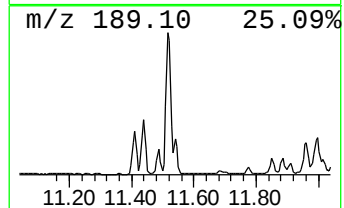
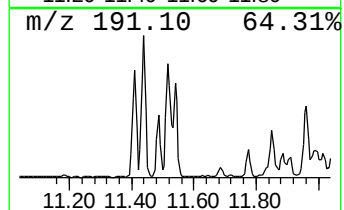
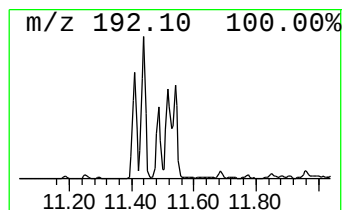
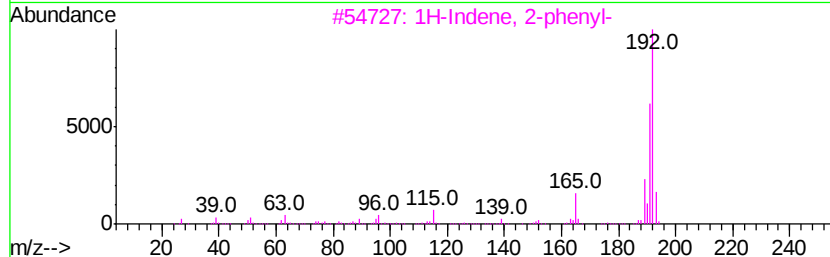
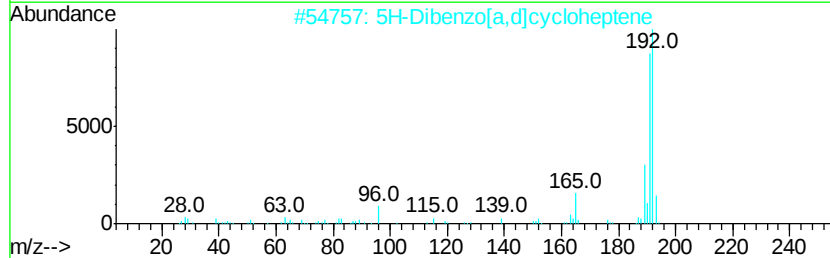
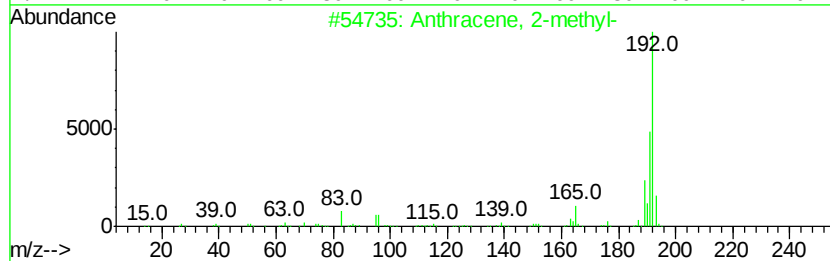
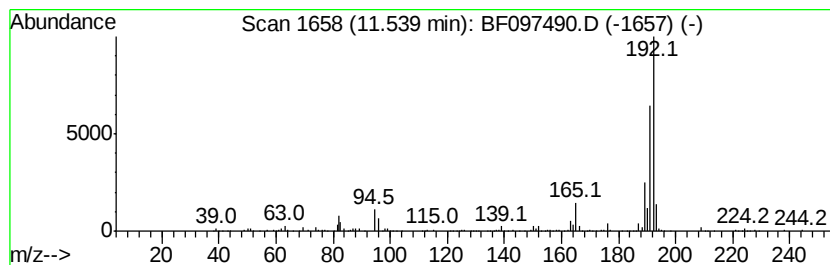
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Anthracene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.54	15.22 ng	404543	Phenanthrene-d10	10.91

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2		5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	95
3		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
4		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93



Data Path : Z:\HPCHEM1\BNA F\DATA\BF080817\
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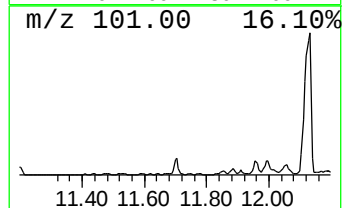
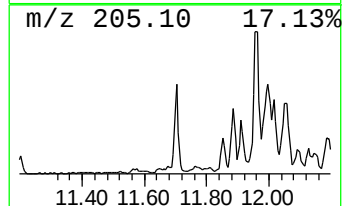
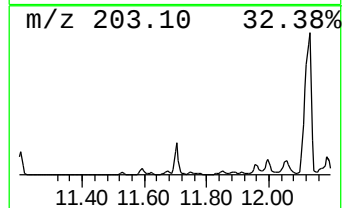
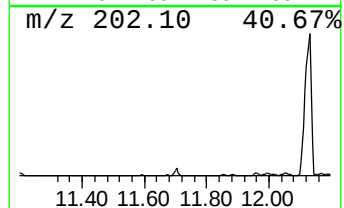
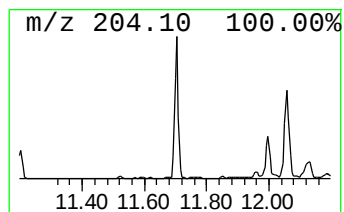
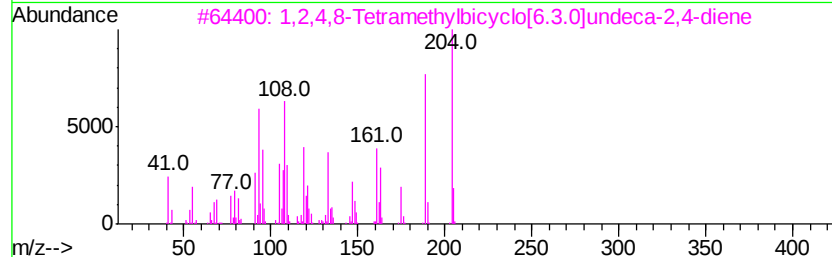
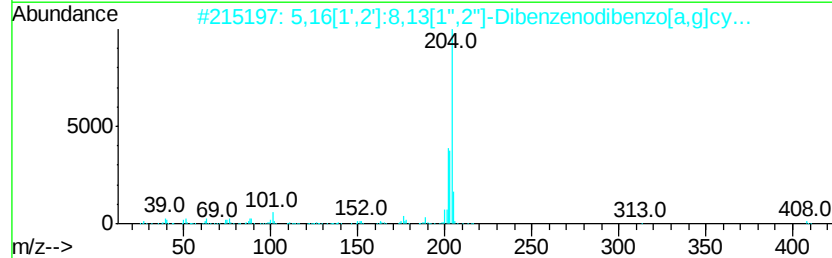
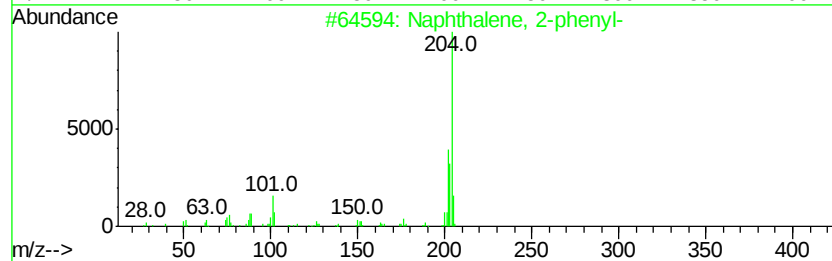
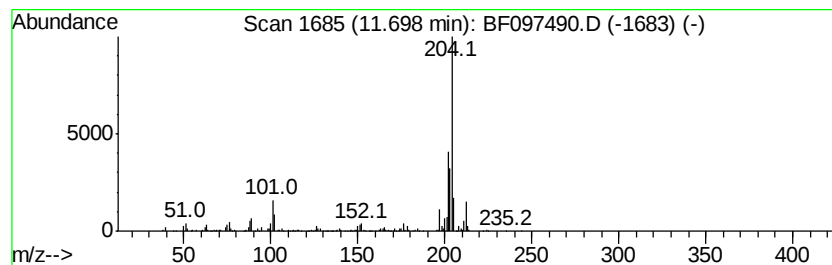
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.70	21.84 ng	580487	Phenanthrene-d10	10.91

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
2		5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
3		1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	83
4		Tricyclo[8.2.2.2(4,7)]hexadeca-2,4,6,8-tetraene	204	C16H12	006572-60-7	70
5		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	47



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080817\
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Acq On : 9 Aug 2017 1:23
Operator : SJ/JU
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ALS Vial : 16 Sample Multiplier: 1

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ClientSampleId :
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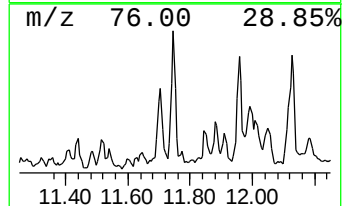
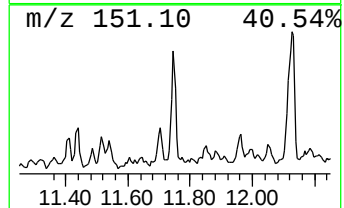
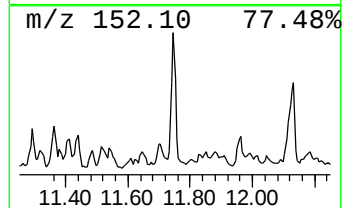
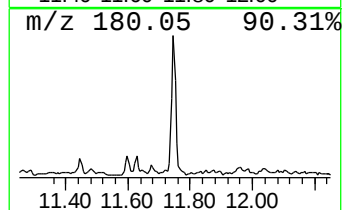
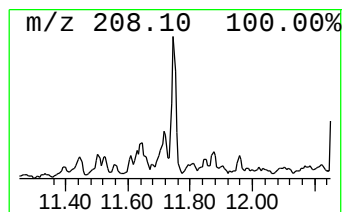
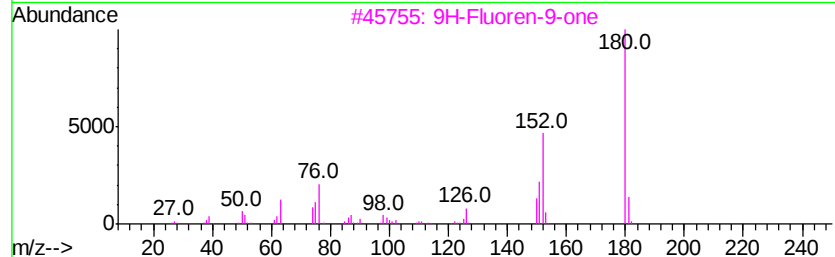
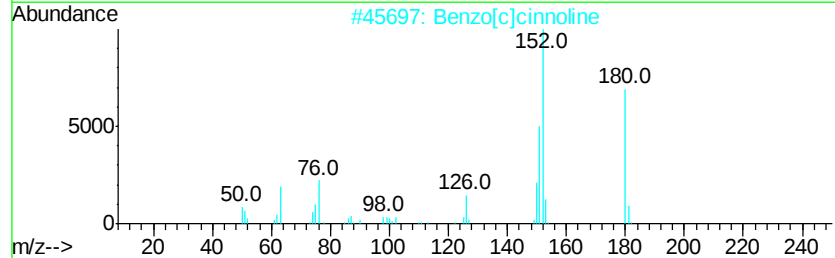
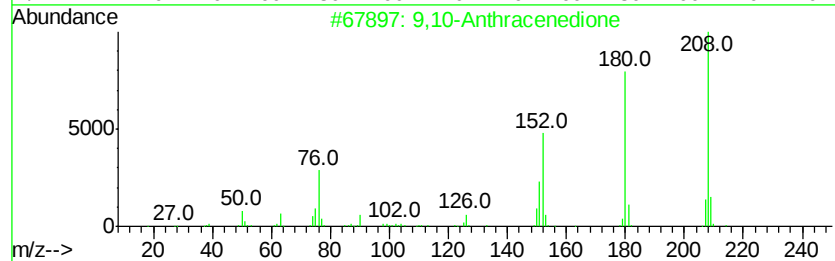
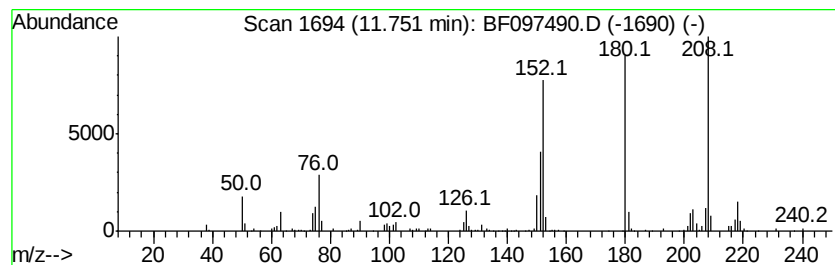
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 9,10-Anthracenedione Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.75	9.32 ng	247678	Phenanthrene-d10	10.91

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
2		Benzo[c]cinnoline	180	C12H8N2	000230-17-1	93
3		9H-Fluoren-9-one	180	C13H8O	000486-25-9	64
4		1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	49



Data Path : Z:\HPCHEM1\BNA F\DATA\BF080817\
Data File : BF097490.D
Acq On : 9 Aug 2017 1:23
Operator : SJ/JU
Sample : I4657-10
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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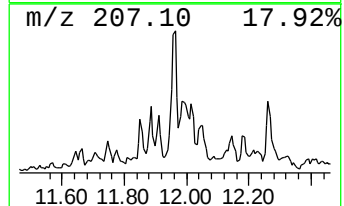
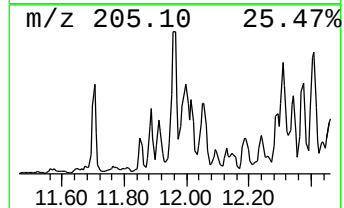
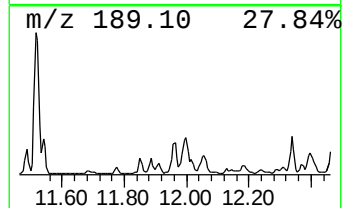
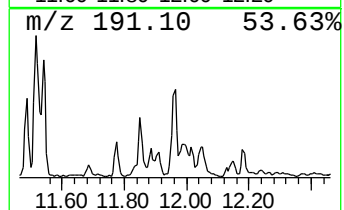
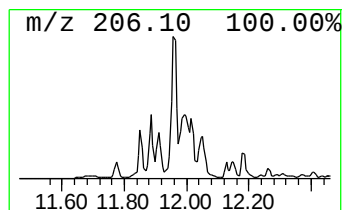
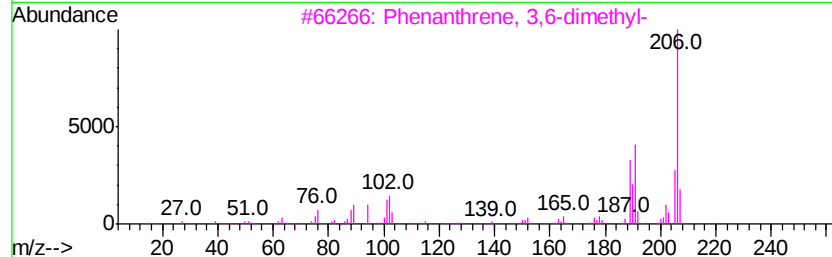
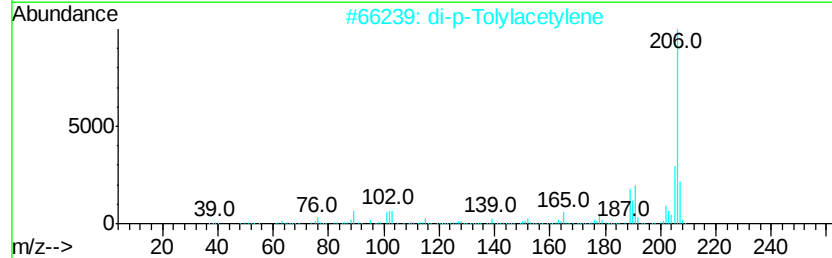
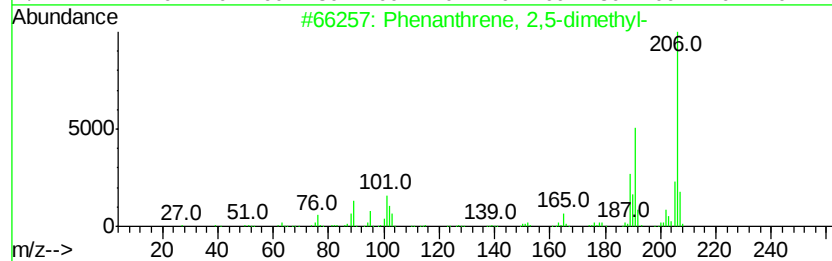
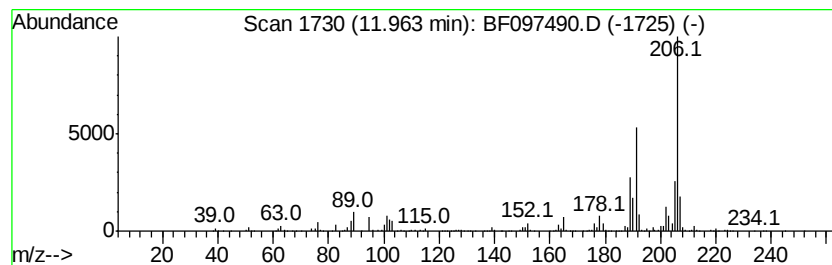
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	29.68 ng	788818	Phenanthrene-d10	10.91

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2		di-p-Tolylacetylene	206	C16H14	002789-88-0	96
3		Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
4		Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
5		9,10-Dimethylantracene	206	C16H14	000781-43-1	93



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080817\
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ALS Vial : 16 Sample Multiplier: 1

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ClientSampleId :
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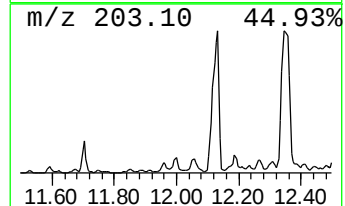
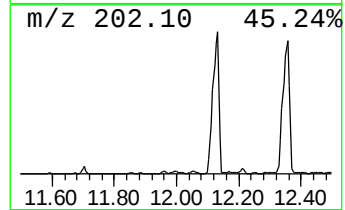
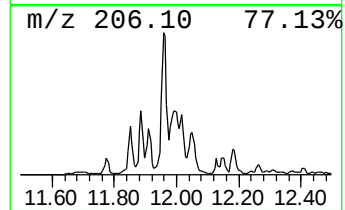
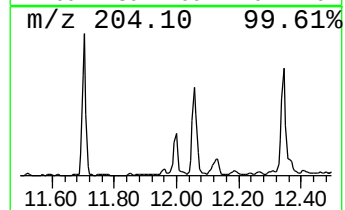
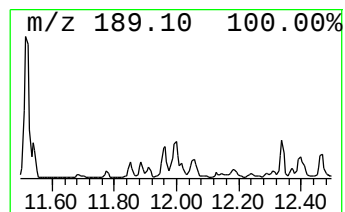
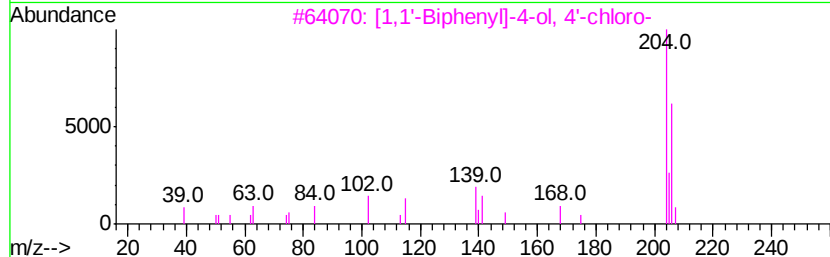
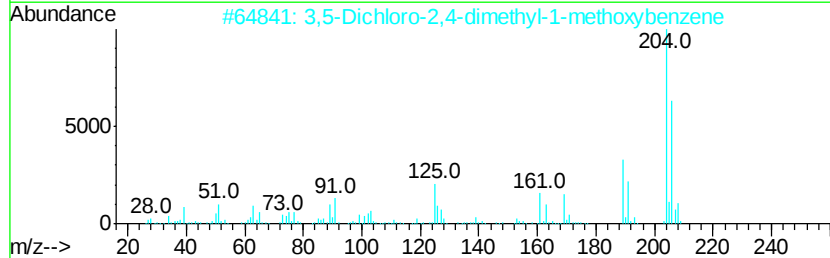
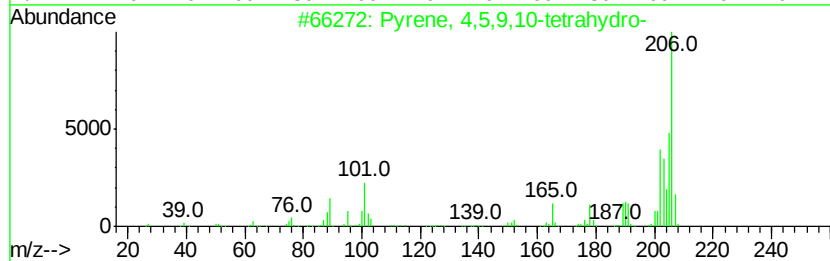
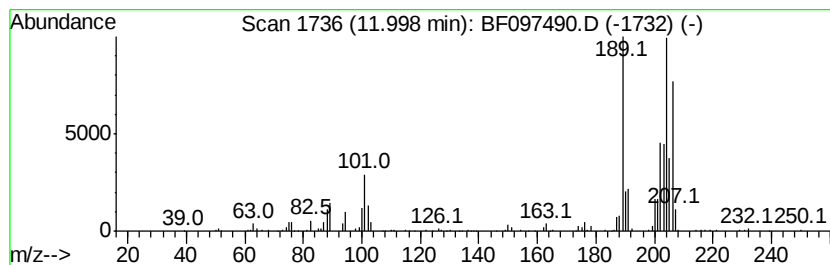
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 unknown12.00 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	10.56 ng	280779	Phenanthrene-d10	10.91

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	42
2		3,5-Dichloro-2,4-dimethyl-1-meth...	204	C9H10Cl2O	1000250-17-8	38
3		[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	35
4		2,1,3-Benzoxazole, 5,6-dichloro-...	204	C6H2Cl2N2O2	004701-01-3	30
5		4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	27



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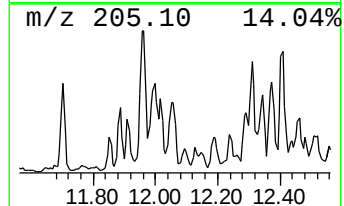
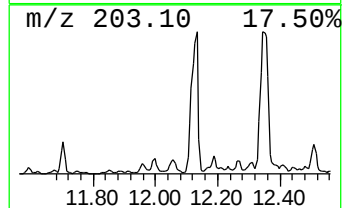
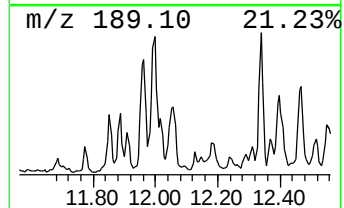
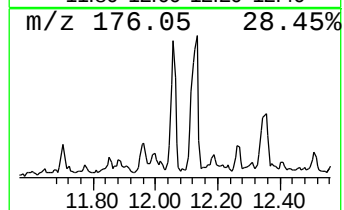
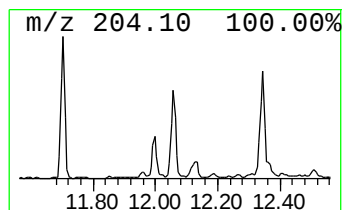
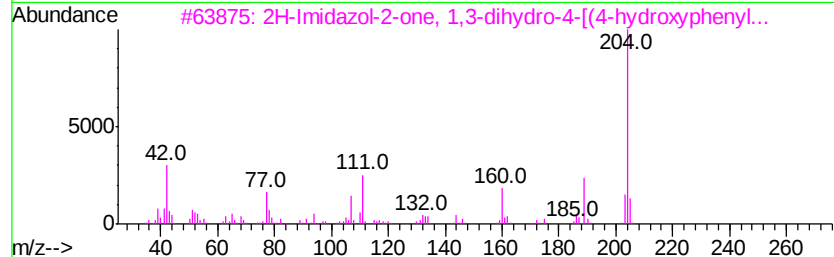
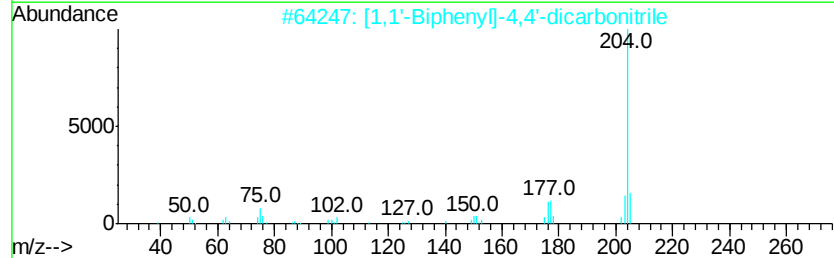
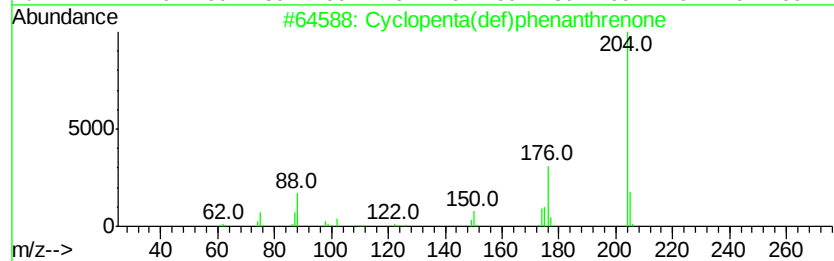
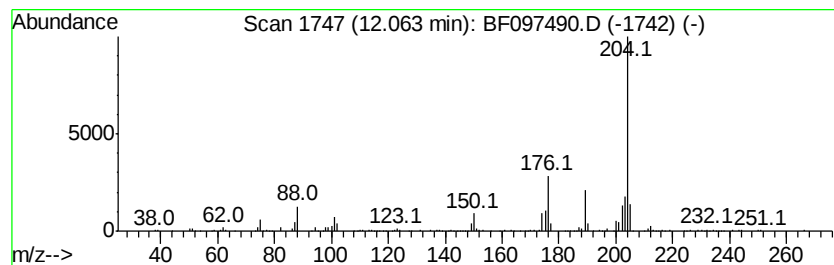
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	19.40 ng	515641	Phenanthrene-d10	10.91

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
3		2H-Imidazol-2-one, 1,3-dihydro-4...	204	C11H12N2O2	1000338-04-7	50
4		1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	50
5		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	50



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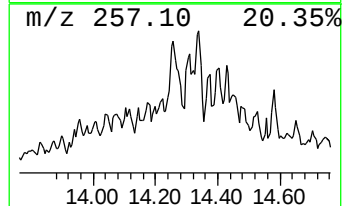
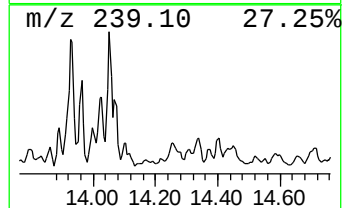
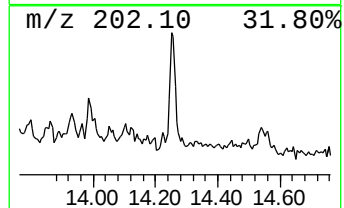
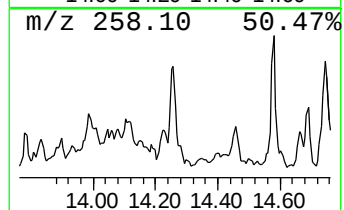
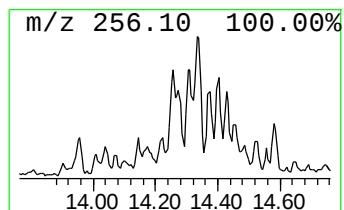
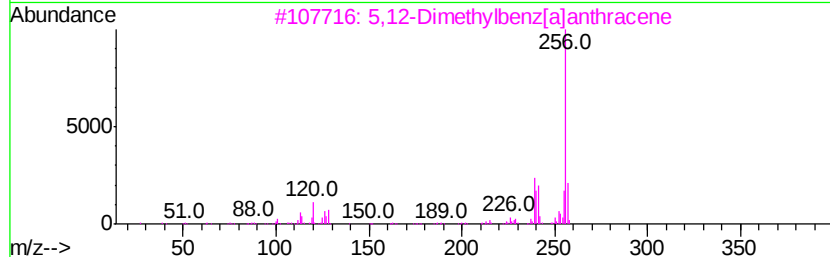
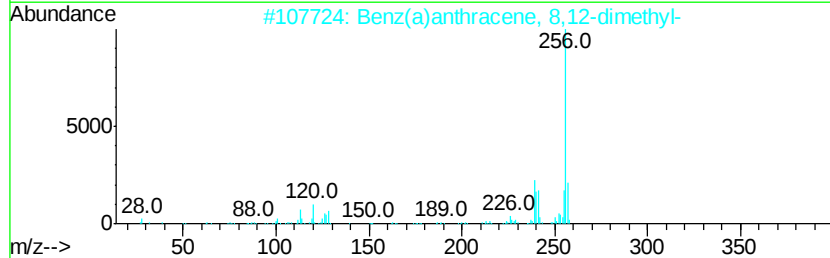
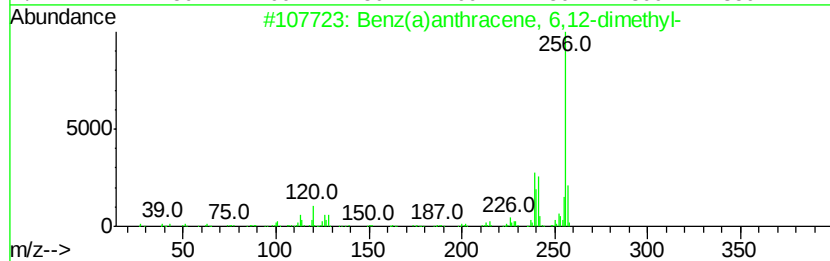
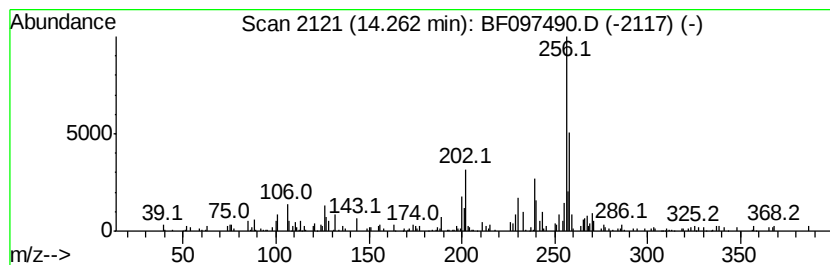
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Benz(a)anthracene, 6,12-dim... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.26	18.04 ng	282985	Perylene-d12	14.89

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benz(a)anthracene, 6,12-dimethyl-	256	C20H16	000568-81-0	70
2		Benz(a)anthracene, 8,12-dimethyl-	256	C20H16	020627-31-0	70
3		5,12-Dimethylbenz[a]anthracene	256	C20H16	021297-22-3	64
4		4,12-Dimethylbenz[a]anthracene	256	C20H16	035187-19-0	55
5		Benz(a)anthracene, 6,7-dimethyl-	256	C20H16	020627-28-5	50



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080817\
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Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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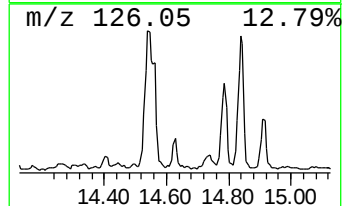
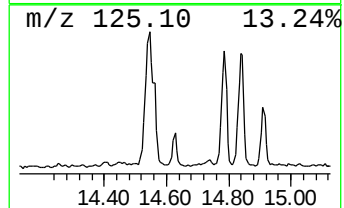
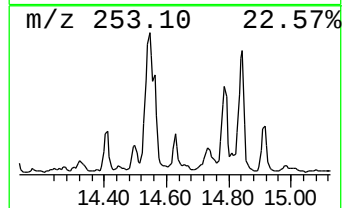
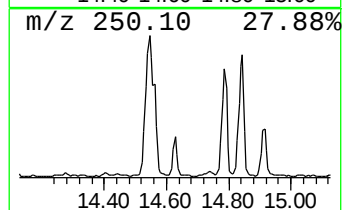
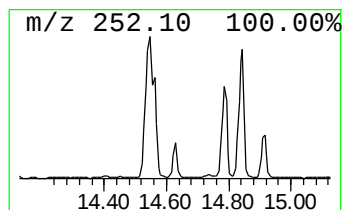
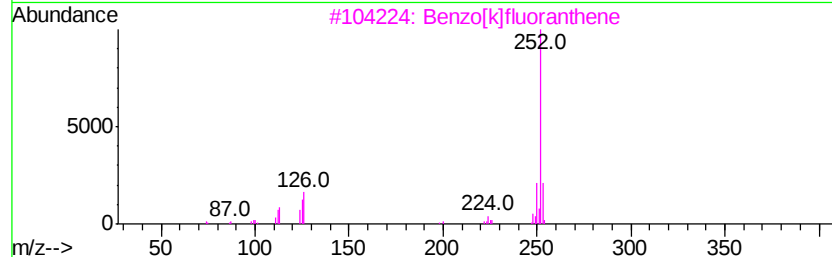
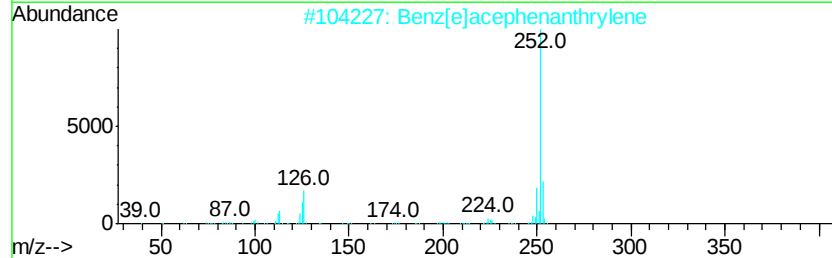
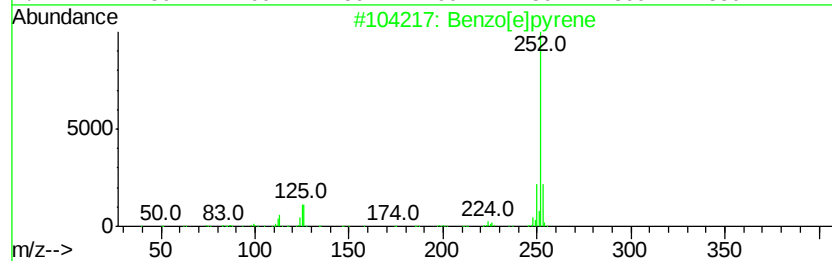
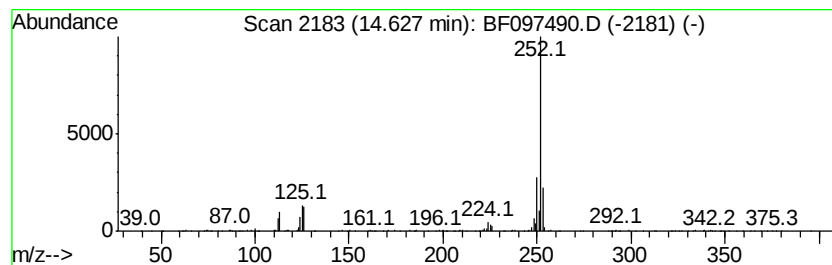
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Benzo[e]pyrene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.63	14.88 ng	233433	Perylene-d12	14.89

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	95
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	81



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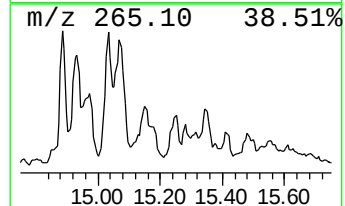
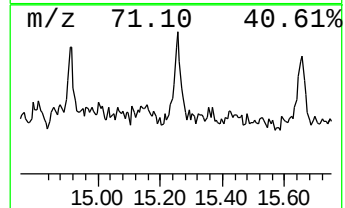
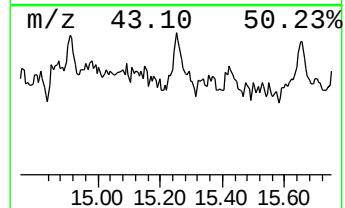
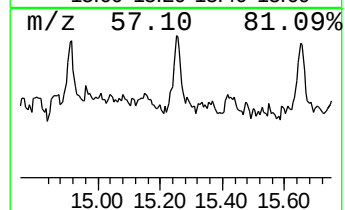
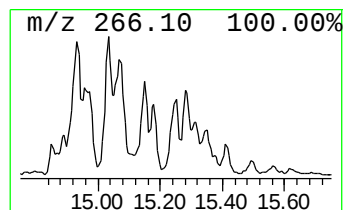
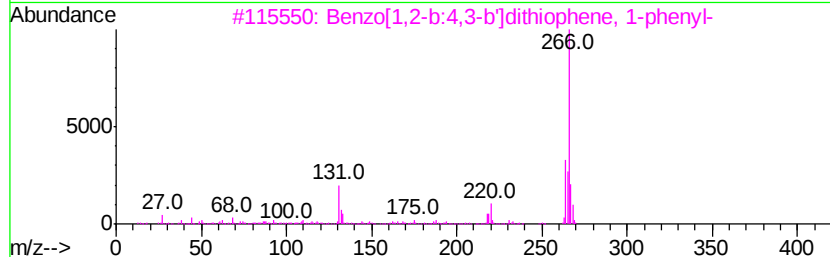
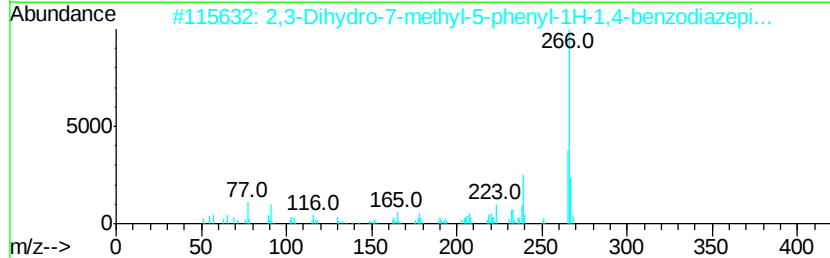
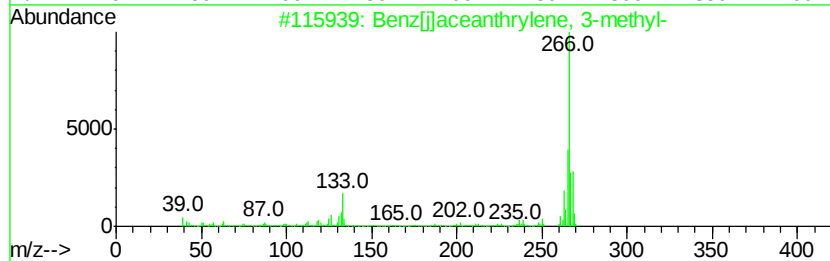
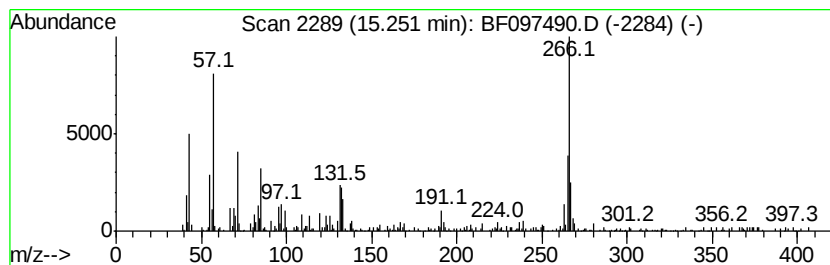
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Benz[j]aceanthrylene, 3-met... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.25	21.69 ng	340281	Perylene-d12	14.89

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benz[il]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	70
2		2,3-Dihydro-7-methyl-5-phenyl-1H...	266	C16H14N2S	002888-60-0	55
3		Benzo[1,2-b:4,3-b']dithiophene, ...	266	C16H10S2	016587-58-9	47
4		Thiazole, 4-(4-methylphenyl)-2-p...	266	C16H14N2S	093020-56-5	43
5		4'-Amino-4-dimethylaminochalcone	266	C17H18N2O	025870-72-8	43



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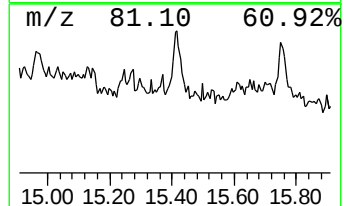
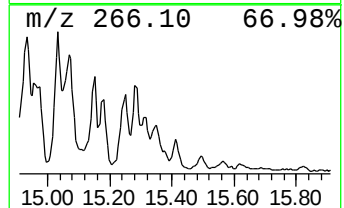
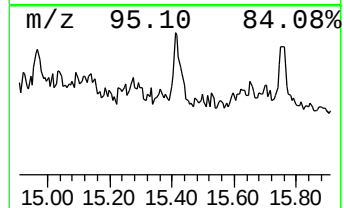
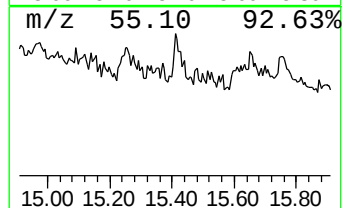
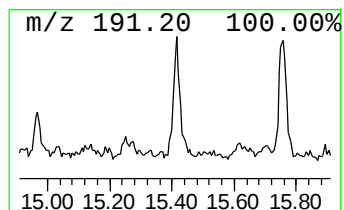
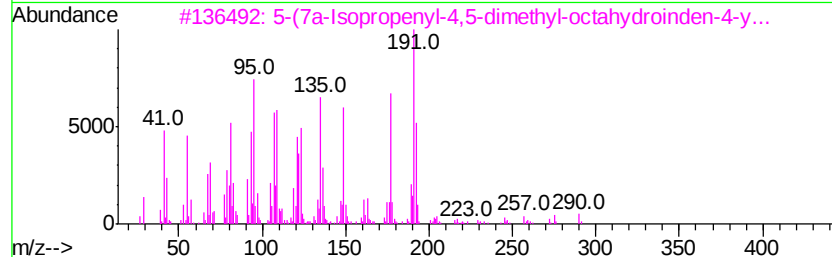
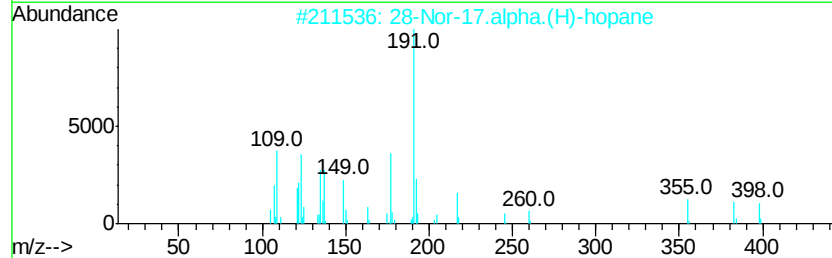
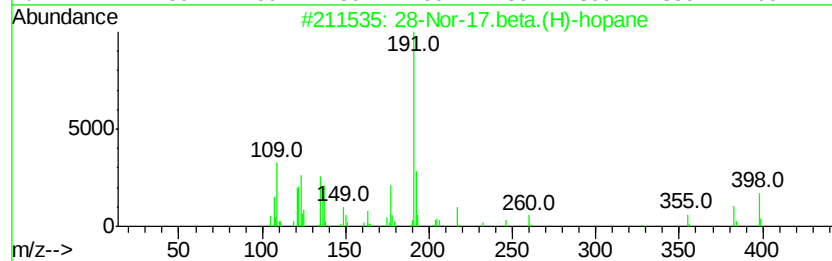
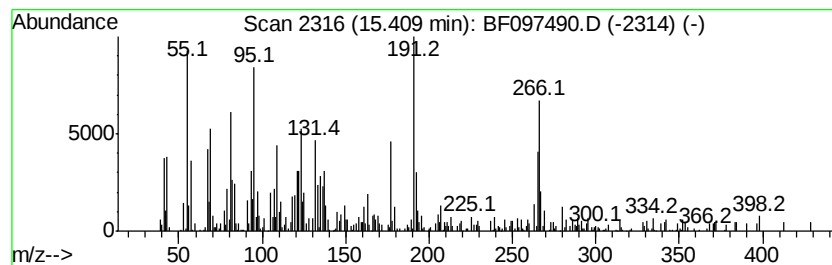
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 28-Nor-17.beta.(H)-hopane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.41	21.46 ng	336530	Perylene-d12	14.89

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	28-Nor-17.beta.(H)-hopane	398	C29H50	036728-72-0	87
2		28-Nor-17.alpha.(H)-hopane	398	C29H50	053584-60-4	49
3		5-(7a-Isopropenyl-4,5-dimethyl-o...	290	C20H34O	1000193-54-0	38
4		5-Hexen-1-one, 1-(1H-imidazol-4-...	192	C11H16N2O	069393-41-5	25
5		1-(3-Nitro-phenyl)-pyrrolidine	192	C10H12N2O2	1000300-34-7	25



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080817\
Data File : BF097490.D
Acq On : 9 Aug 2017 1:23
Operator : SJ/JU
Sample : I4657-10
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CL-01-080717-D

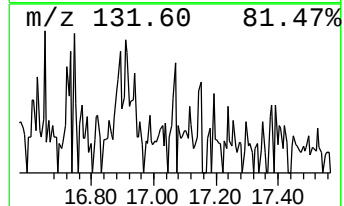
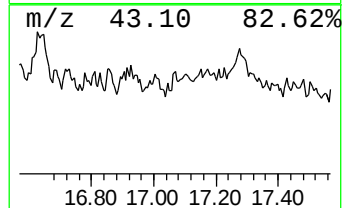
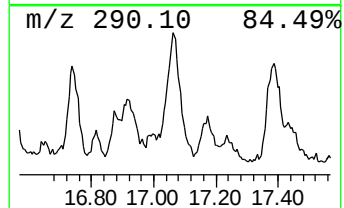
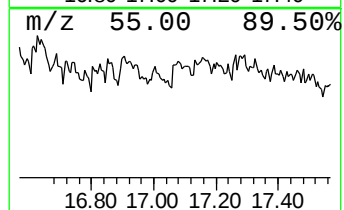
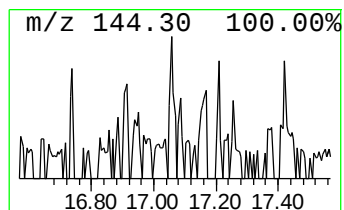
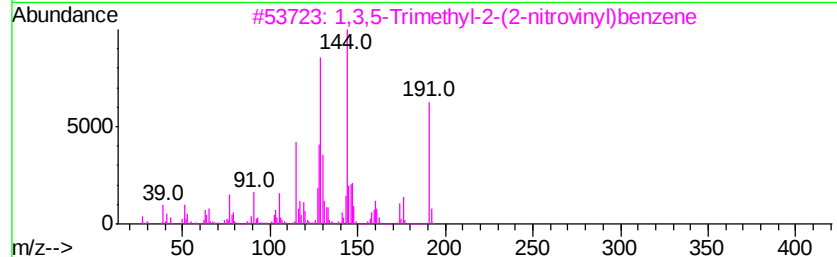
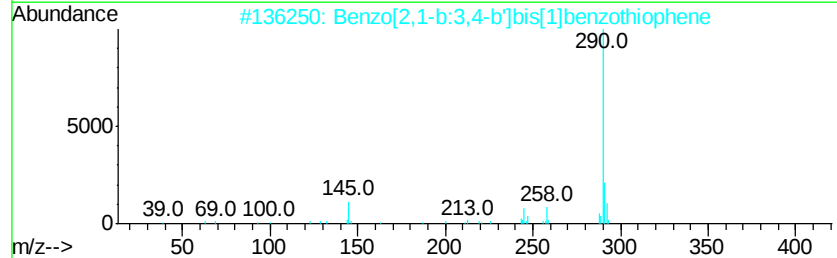
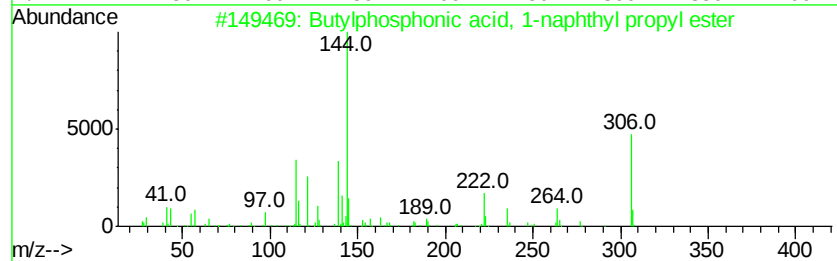
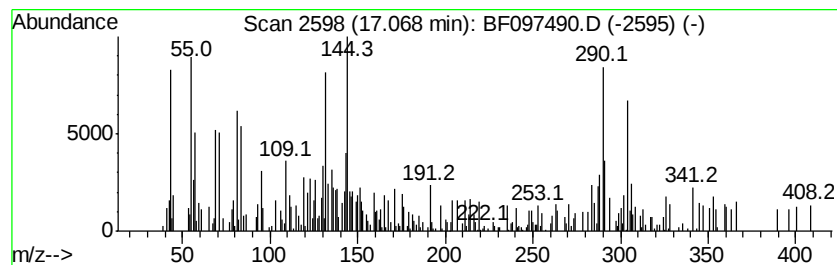
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 unknown17.07 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.07	11.81 ng	185201	Perylene-d12	14.89

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Butylphosphonic acid, 1-naphthyl...	306	C17H23O3P	1000323-22-4	25
2		Benzo[2,1-b:3,4-b']bis[1]benzoth...	290	C18H10S2	000222-24-2	11
3		1,3,5-Trimethyl-2-(2-nitrovinyl)...	191	C11H13NO2	1000194-38-4	11
4		1H-1,2,4-Triazole-5(4H)-thione, ...	144	C4H8N4S	021111-52-4	11
5		Adipic acid, butyl 2-naphthyl ester	328	C20H24O4	1000324-33-4	11



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF080817\
 Data File : BF097490.D
 Acq On : 9 Aug 2017 1:23
 Operator : SJ/JU
 Sample : I4657-10
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-080717-D

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
unknown6.18	6.18	67.7	ng	1887870	1	6.40	557812	20.0
Dibenzothiophene	10.80	8.1	ng	215878	4	10.91	531636	20.0
1-Methyldibenzoth...	11.23	8.6	ng	227924	4	10.91	531636	20.0
Phenanthrene, 1-m...	11.41	25.1	ng	666659	4	10.91	531636	20.0
Anthracene, 1-met...	11.44	30.6	ng	812318	4	10.91	531636	20.0
Phenanthrene, 2-m...	11.49	19.5	ng	518893	4	10.91	531636	20.0
Benzaldehyde, 3,5...	11.52	51.0	ng	1356020	4	10.91	531636	20.0
Anthracene, 2-met...	11.54	15.2	ng	404543	4	10.91	531636	20.0
Naphthalene, 2-ph...	11.70	21.8	ng	580487	4	10.91	531636	20.0
9,10-Anthracenedione	11.75	9.3	ng	247678	4	10.91	531636	20.0
Phenanthrene, 2,5...	11.96	29.7	ng	788818	4	10.91	531636	20.0
unknown12.00	12.00	10.6	ng	280779	4	10.91	531636	20.0
Cyclopenta(def)ph...	12.06	19.4	ng	515641	4	10.91	531636	20.0
Benz(a)anthracene...	14.26	18.0	ng	282985	6	14.89	313707	20.0
Benzo[e]pyrene	14.63	14.9	ng	233433	6	14.89	313707	20.0
Benz[j]aceanthryl...	15.25	21.7	ng	340281	6	14.89	313707	20.0
28-Nor-17.beta.(H...	15.41	21.5	ng	336530	6	14.89	313707	20.0
unknown17.07	17.07	11.8	ng	185201	6	14.89	313707	20.0