

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
 Data File : BF097213.D
 Acq On : 31 Jul 2017 17:42
 Operator : SJ/JU
 Sample : I4488-01 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-A

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	4.604	453	462	474	rBV	134649	202064	10.49%	0.485%
2	5.087	540	544	561	rBV	1253122	1480640	76.90%	3.553%
3	5.998	695	699	701	rBV	86436	82532	4.29%	0.198%
4	6.151	722	725	734	rVV	1421699	1477003	76.71%	3.544%
5	6.257	739	743	748	rVV	1549875	1524573	79.18%	3.658%
6	6.475	777	780	784	rBV	746674	692807	35.98%	1.662%
7	6.634	803	807	816	rVB	1170730	1070233	55.58%	2.568%
8	6.751	821	827	834	rVB4	85279	127178	6.60%	0.305%
9	7.045	873	877	887	rVV	932640	835891	43.41%	2.006%
10	7.287	915	918	923	rVB2	101240	89340	4.64%	0.214%
11	7.404	931	938	942	rBV5	55623	81761	4.25%	0.196%
12	7.763	995	999	1001	rBV	1163130	1010613	52.49%	2.425%
13	7.781	1001	1002	1006	rVB	106082	81994	4.26%	0.197%
14	8.210	1071	1075	1081	rBV6	91389	149568	7.77%	0.359%
15	8.375	1099	1103	1107	rVV5	54490	98425	5.11%	0.236%
16	8.428	1107	1112	1115	rVV6	62364	124530	6.47%	0.299%
17	8.475	1116	1120	1123	rVB	360941	308063	16.00%	0.739%
18	8.569	1133	1136	1141	rVB	485814	447421	23.24%	1.074%
19	8.804	1169	1176	1178	rBV4	64002	79872	4.15%	0.192%
20	8.839	1178	1182	1185	rVB	1611484	1322767	68.70%	3.174%
21	9.004	1208	1210	1213	rVV3	76503	81760	4.25%	0.196%
22	9.033	1213	1215	1222	rVB2	97684	135528	7.04%	0.325%
23	9.098	1222	1226	1230	rBV	300985	398790	20.71%	0.957%
24	9.175	1235	1239	1241	rVV	521155	499188	25.93%	1.198%
25	9.198	1241	1243	1248	rVV	375996	318298	16.53%	0.764%
26	9.239	1248	1250	1255	rVB	298587	243658	12.65%	0.585%
27	9.286	1255	1258	1265	rVB	282029	352319	18.30%	0.845%
28	9.369	1268	1272	1275	rBV	479638	403206	20.94%	0.968%
29	9.510	1291	1296	1298	rBV	831194	778389	40.43%	1.868%
30	9.539	1298	1301	1305	rVB	538292	435280	22.61%	1.044%
31	9.622	1311	1315	1319	rBV	132194	178244	9.26%	0.428%
32	9.663	1319	1322	1325	rBV2	73680	85311	4.43%	0.205%
33	9.716	1325	1331	1334	rVB	328263	355430	18.46%	0.853%
34	9.757	1334	1338	1341	rVB	234894	189957	9.87%	0.456%

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 Min Area: 3 % of largest Peak
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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

35	9.828	1346	1350	1353	rBV	263459	290550	15.09%	0.697%
36	9.857	1353	1355	1357	rVB	131673	94448	4.91%	0.227%
37	9.916	1361	1365	1367	rBV2	139195	204905	10.64%	0.492%
38	9.933	1367	1368	1371	rVB2	127064	93293	4.85%	0.224%
39	9.963	1371	1373	1376	rVB	152221	118938	6.18%	0.285%
40	10.004	1376	1380	1382	rBV	103729	140136	7.28%	0.336%
41	10.051	1385	1388	1395	rVB	659700	658432	34.20%	1.580%
42	10.116	1395	1399	1401	rBV	127526	166163	8.63%	0.399%
43	10.210	1413	1415	1418	rBV	109274	114708	5.96%	0.275%
44	10.298	1427	1430	1434	rVB	614912	601292	31.23%	1.443%
45	10.427	1448	1452	1454	rBV3	143078	171515	8.91%	0.412%
46	10.498	1459	1464	1466	rBV2	86316	93584	4.86%	0.225%
47	10.598	1477	1481	1484	rBV	253026	323863	16.82%	0.777%
48	10.627	1484	1486	1489	rVV	234563	195807	10.17%	0.470%
49	10.680	1493	1495	1499	rVB	196655	169596	8.81%	0.407%
50	10.880	1525	1529	1532	rBV	256351	234586	12.18%	0.563%
51	10.986	1543	1547	1548	rBV	588285	563130	29.25%	1.351%
52	11.010	1548	1551	1554	rVB	1758893	1508558	78.35%	3.620%
53	11.057	1554	1559	1563	rVB	609097	579045	30.07%	1.389%
54	11.104	1563	1567	1569	rBV	168255	211112	10.96%	0.507%
55	11.222	1584	1587	1590	rBV	141319	153102	7.95%	0.367%
56	11.316	1599	1603	1606	rVV2	169791	187068	9.72%	0.449%
57	11.398	1614	1617	1621	rVB	138816	149568	7.77%	0.359%
58	11.486	1629	1632	1634	rBV	564554	490944	25.50%	1.178%
59	11.516	1634	1637	1640	rVB	644651	528283	27.44%	1.268%
60	11.563	1643	1645	1647	rVV	286181	205715	10.68%	0.494%
61	11.598	1647	1651	1653	rVV	879383	974066	50.59%	2.337%
62	11.622	1653	1655	1661	rVB	461381	404329	21.00%	0.970%
63	11.686	1661	1666	1667	rBV3	56641	90607	4.71%	0.217%
64	11.722	1669	1672	1676	rVB2	103607	97072	5.04%	0.233%
65	11.780	1679	1682	1684	rBV	187247	135916	7.06%	0.326%
66	11.927	1705	1707	1710	rVV	111363	117489	6.10%	0.282%
67	11.963	1710	1713	1715	rVV	180350	170045	8.83%	0.408%
68	11.986	1715	1717	1720	rVB2	137480	111867	5.81%	0.268%
69	12.033	1722	1725	1728	rBV	464881	520309	27.02%	1.248%
70	12.069	1728	1731	1734	rVV	335114	479724	24.91%	1.151%
71	12.127	1737	1741	1744	rVB2	196992	255176	13.25%	0.612%

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Sampling : 1 Min Area: 3 % of largest Peak
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72	12.198	1749	1753	1756	rBV	1569366	1607361	83.48%	3.857%
73	12.245	1758	1761	1762	rBV	91749	81801	4.25%	0.196%
74	12.286	1766	1768	1772	rVB2	123451	122244	6.35%	0.293%
75	12.339	1774	1777	1779	rBV	120151	105767	5.49%	0.254%
76	12.421	1786	1791	1793	rBV	1799501	1925496	100.00%	4.620%
77	12.445	1793	1795	1797	rVV2	147717	136241	7.08%	0.327%
78	12.486	1800	1802	1805	rVB	149783	139708	7.26%	0.335%
79	12.539	1809	1811	1813	rBV	142072	113504	5.89%	0.272%
80	12.569	1813	1816	1823	rVB	929934	995738	51.71%	2.389%
81	12.639	1825	1828	1831	rBV2	220395	251783	13.08%	0.604%
82	12.751	1840	1847	1850	rVB	535783	821976	42.69%	1.972%
83	12.816	1855	1858	1861	rVB	441039	384162	19.95%	0.922%
84	12.851	1861	1864	1868	rBV	409773	407431	21.16%	0.978%
85	12.945	1877	1880	1882	rVB	330775	301028	15.63%	0.722%
86	12.974	1882	1885	1888	rBV	380650	342372	17.78%	0.822%
87	13.233	1926	1929	1932	rBV2	153046	218093	11.33%	0.523%
88	13.363	1947	1951	1953	rBV2	193928	285344	14.82%	0.685%
89	13.498	1971	1974	1977	rVB2	198172	199078	10.34%	0.478%
90	13.610	1989	1993	1997	rBV2	975945	1547066	80.35%	3.712%
91	13.645	1997	1999	2002	rVB	676982	544591	28.28%	1.307%
92	14.004	2058	2060	2063	rVB	286256	245048	12.73%	0.588%
93	14.039	2063	2066	2068	rVB	186885	154266	8.01%	0.370%
94	14.127	2079	2081	2087	rVB3	295145	448130	23.27%	1.075%
95	14.615	2160	2164	2170	rBV	558754	929407	48.27%	2.230%
96	14.704	2176	2179	2181	rVB2	170692	158714	8.24%	0.381%
97	14.868	2204	2207	2212	rVB	317570	377650	19.61%	0.906%
98	14.921	2212	2216	2220	rBV	615629	765933	39.78%	1.838%
99	14.974	2222	2225	2227	rBV	381460	358430	18.61%	0.860%
100	15.898	2380	2382	2389	rVB2	253691	358898	18.64%	0.861%

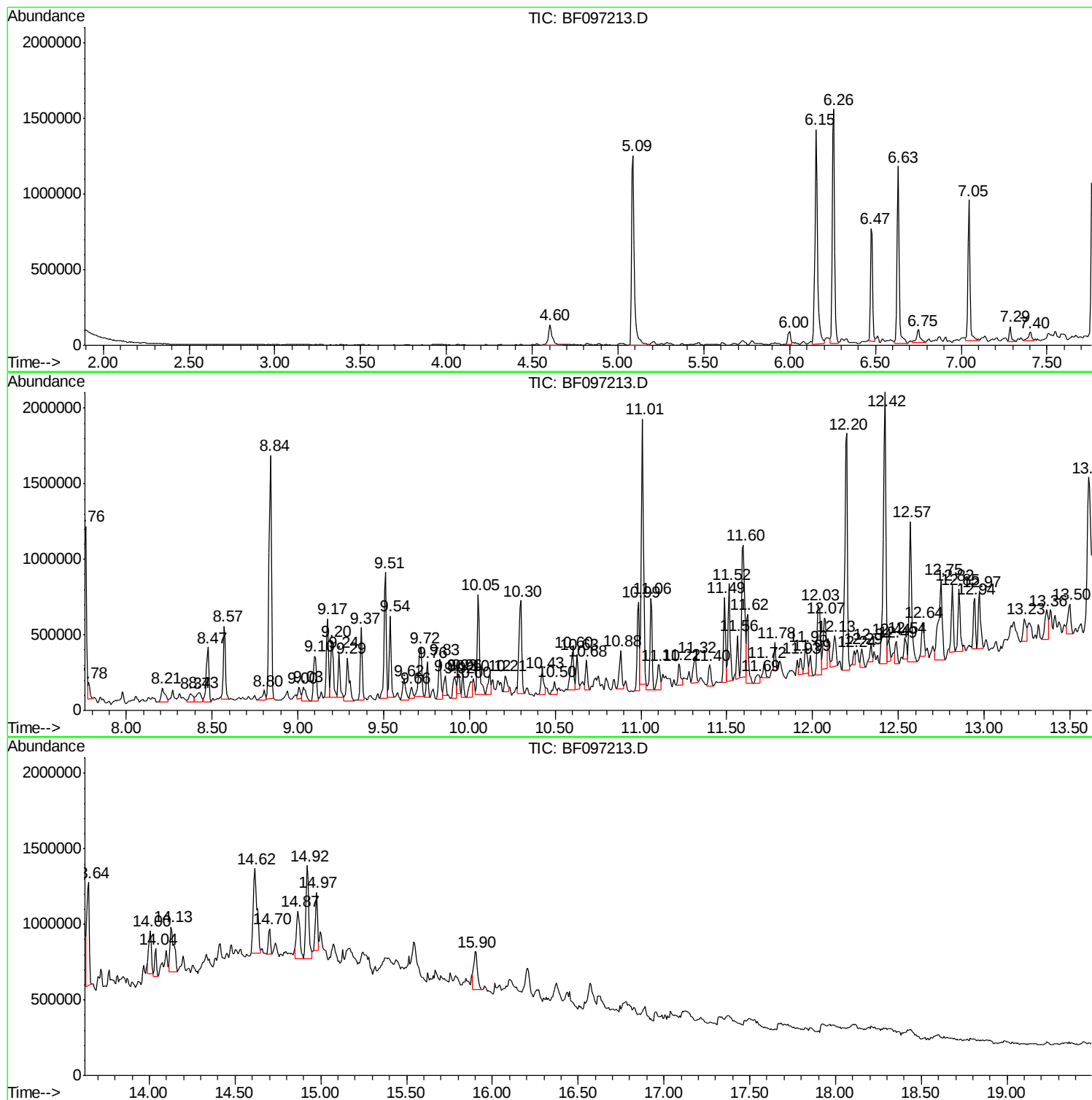
Sum of corrected areas: 41674834

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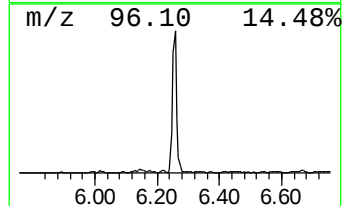
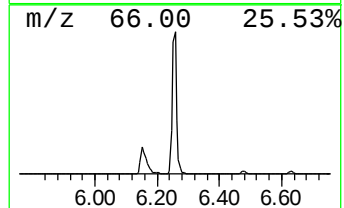
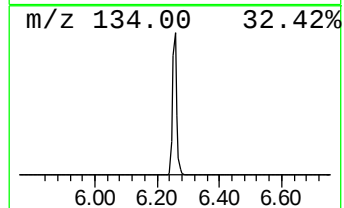
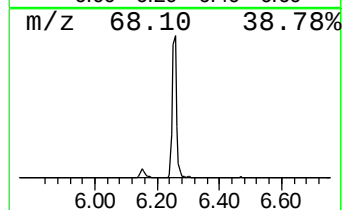
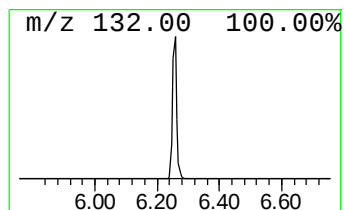
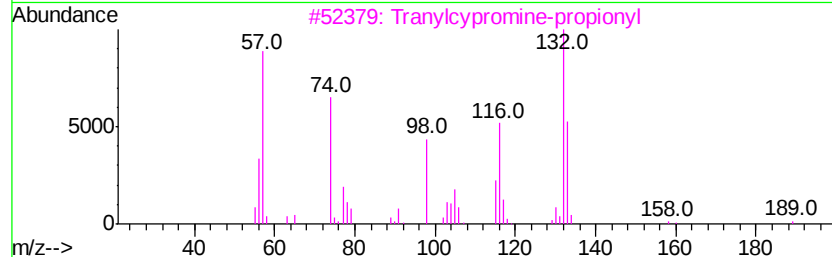
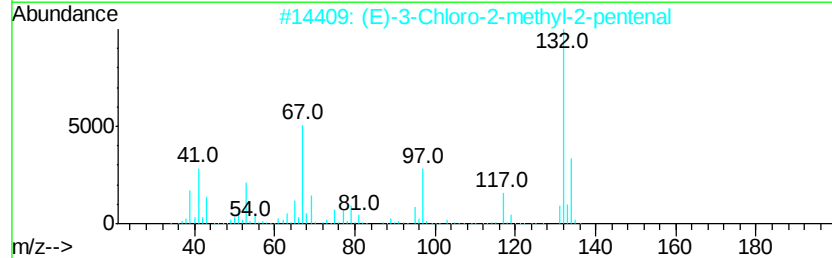
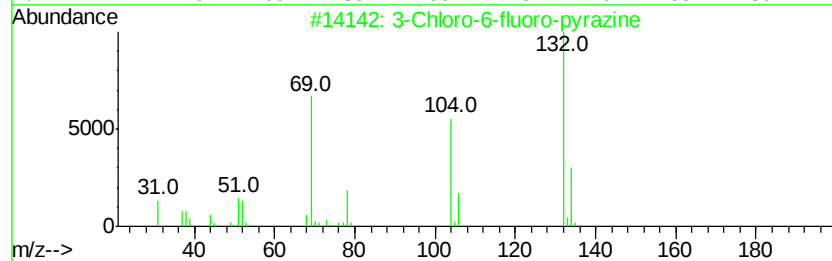
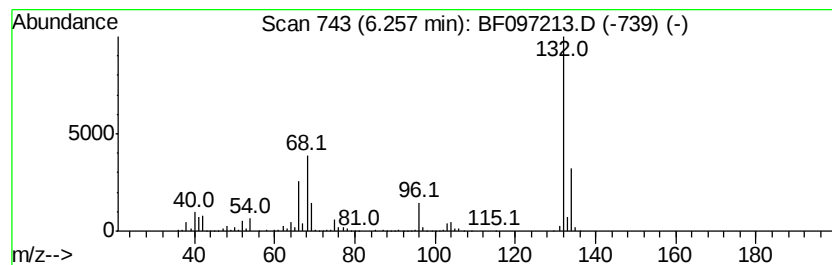
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown6.26 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.26	44.01 ng	1524570	1,4-Dichlorobenzene-d4	6.48

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3		Tranvlcypropine-propionyl	189	C12H15NO	1000123-86-3	10
4		2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9
5		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9



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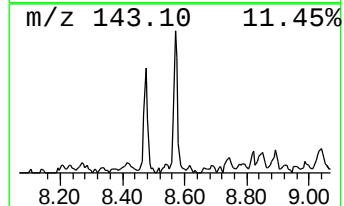
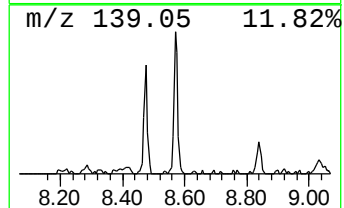
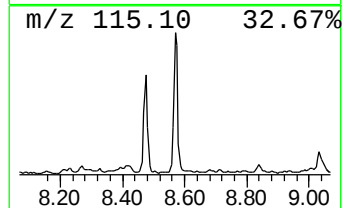
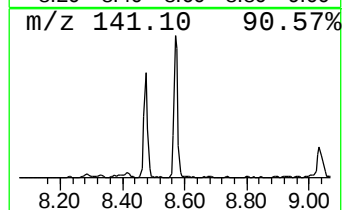
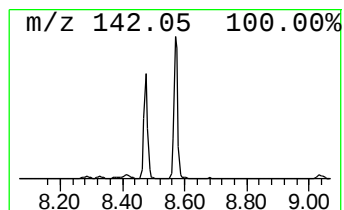
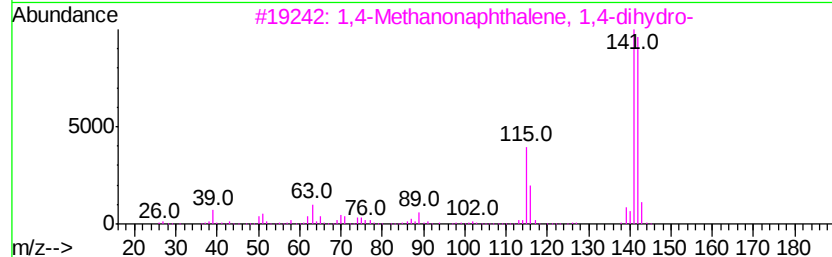
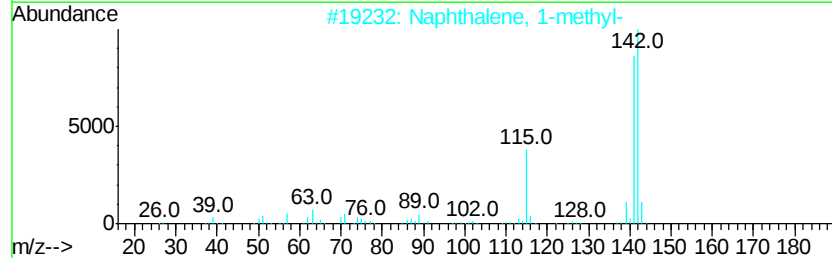
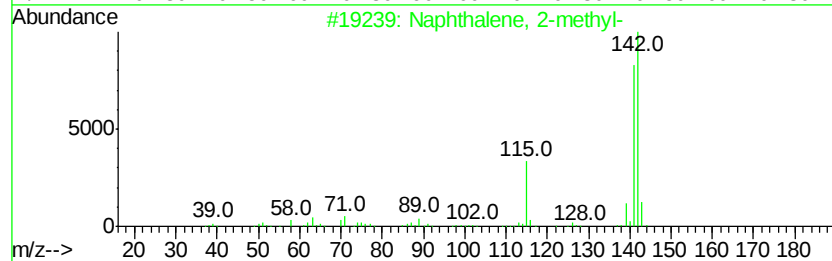
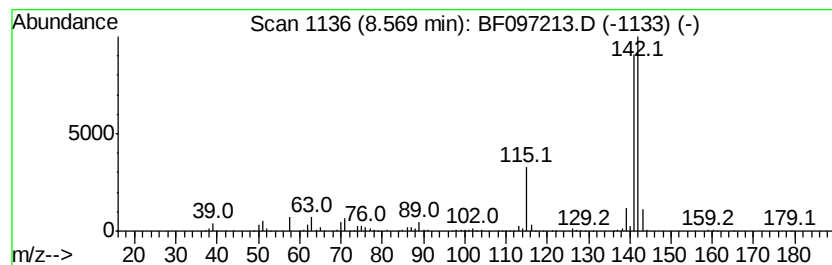
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Peak Number 3 Naphthalene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.57	8.85 ng	447421	Naphthalene-d8	7.76

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	97
2		Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3		1,4-Methanonaphthalene, 1,4-dihv...	142	C11H10	004453-90-1	94
4		1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	94
5		Benzocycloheptatriene	142	C11H10	000264-09-5	91



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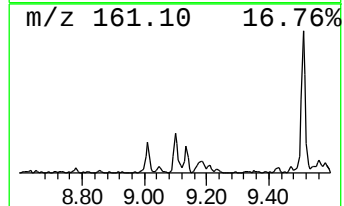
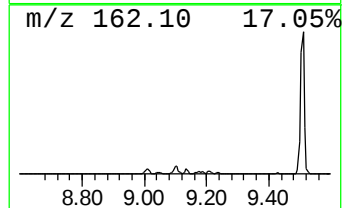
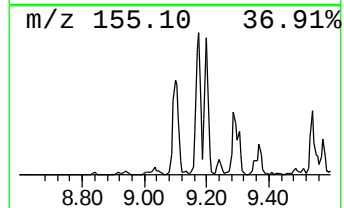
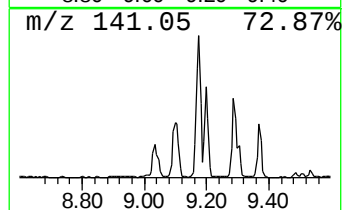
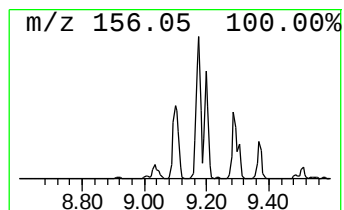
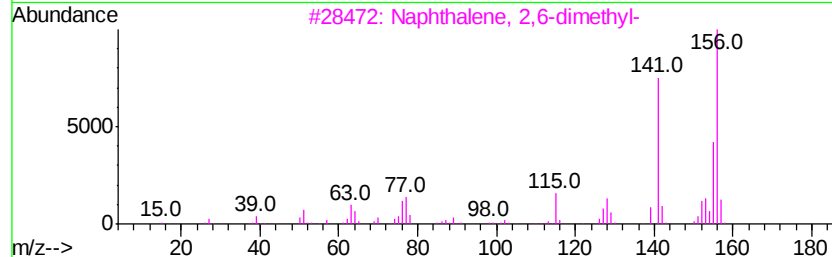
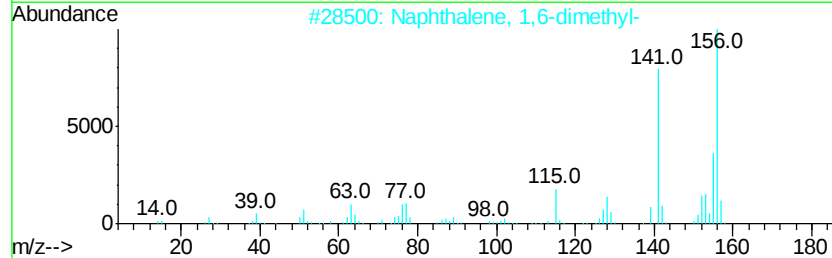
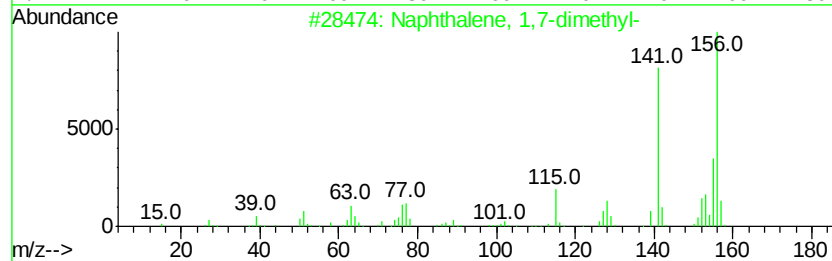
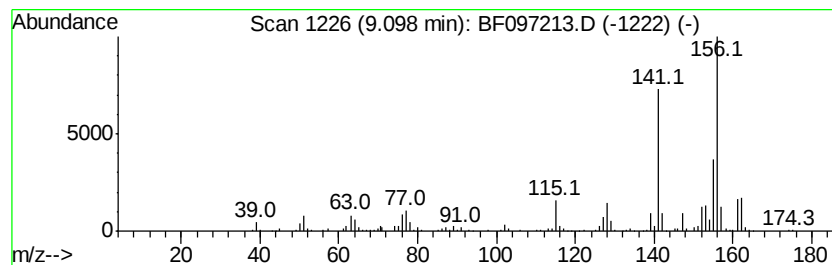
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Naphthalene, 1,7-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.10	10.25 ng	398790	Acenaphthene-d10	9.51
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 1,7-dimethyl-	156 C12H12	000575-37-1 98
2		Naphthalene, 1,6-dimethyl-	156 C12H12	000575-43-9 98
3		Naphthalene, 2,6-dimethyl-	156 C12H12	000581-42-0 97
4		Naphthalene, 1,5-dimethyl-	156 C12H12	000571-61-9 97
5		Naphthalene, 1,3-dimethyl-	156 C12H12	000575-41-7 96



Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
Data File : BF097213.D
Acq On : 31 Jul 2017 17:42
Operator : SJ/JU
Sample : I4488-01 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

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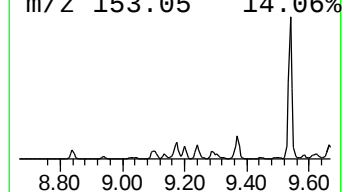
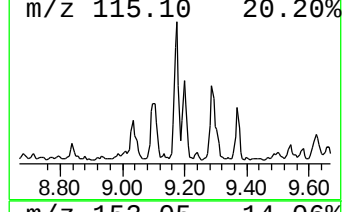
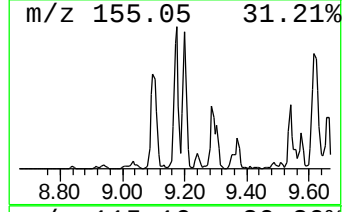
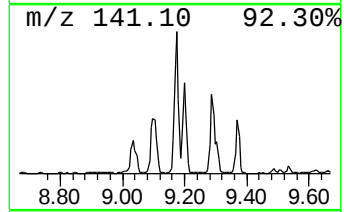
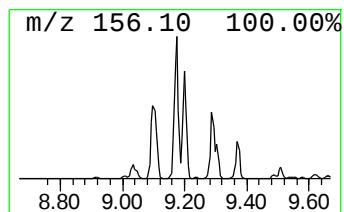
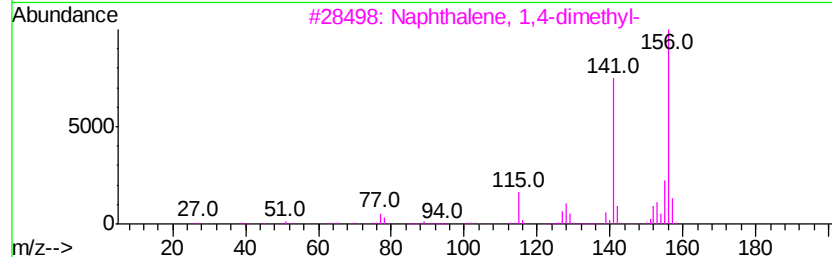
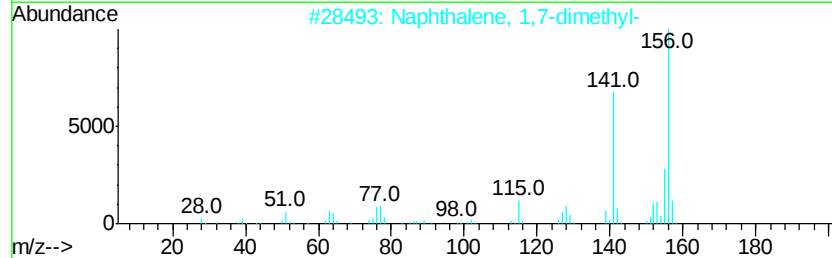
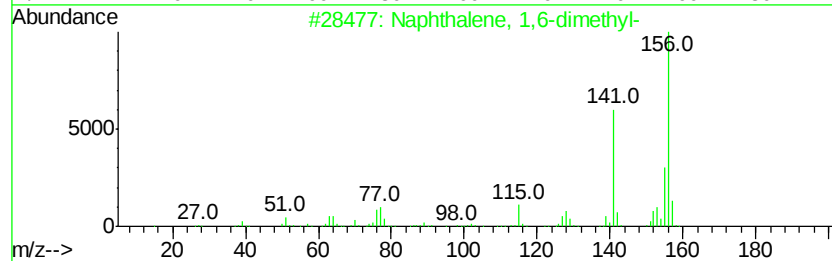
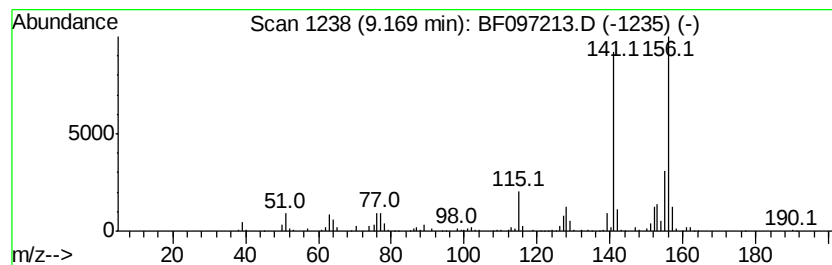
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Naphthalene, 1,6-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.17	12.83 ng	499188	Acenaphthene-d10	9.51

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
2		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3		Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
4		Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
5		Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
Data File : BF097213.D
Acq On : 31 Jul 2017 17:42
Operator : SJ/JU
Sample : I4488-01 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

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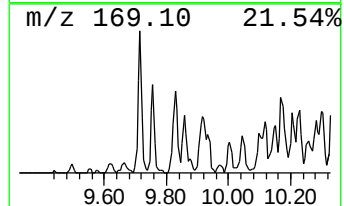
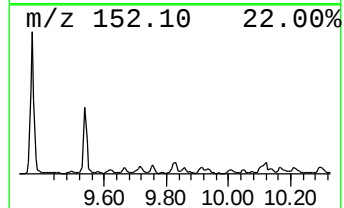
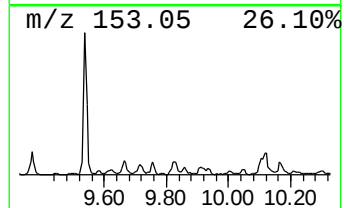
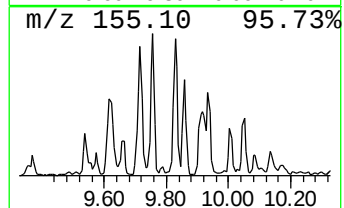
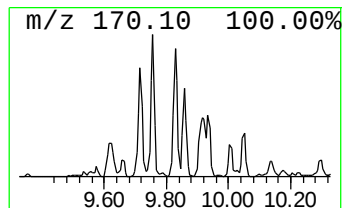
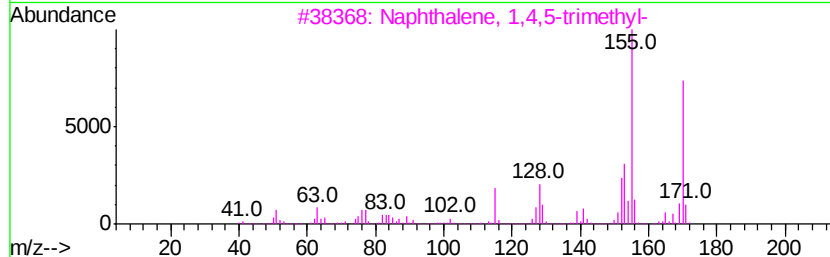
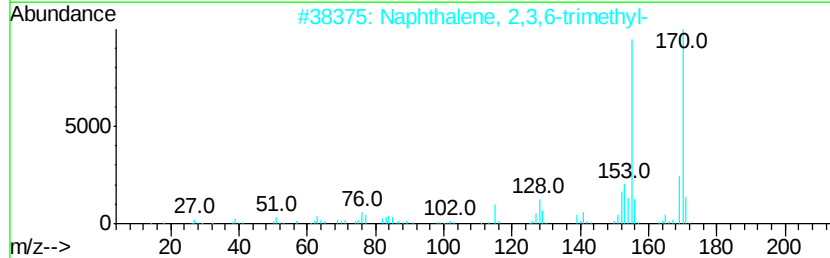
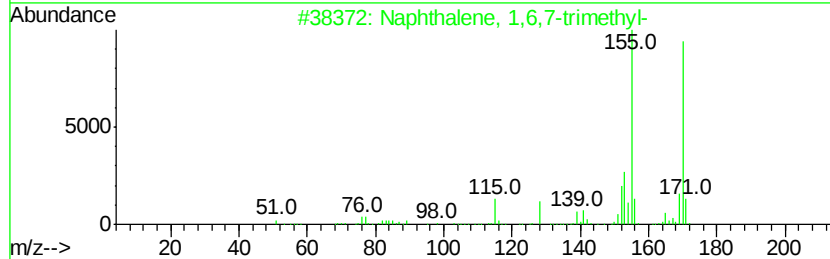
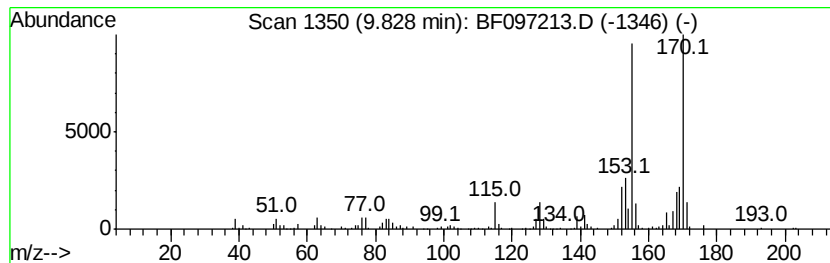
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Naphthalene, 1,6,7-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.83	7.47 ng	290550	Acenaphthene-d10	9.51

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
2			Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96
3			Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	96
4			Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96
5			4,6,8-Trimethylazulene	170	C13H14	000941-81-1	91



Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
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Operator : SJ/JU
Sample : I4488-01 2X
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ALS Vial : 14 Sample Multiplier: 1

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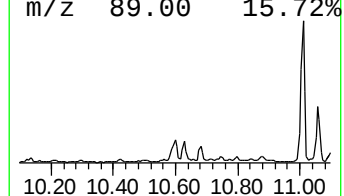
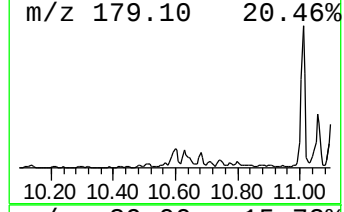
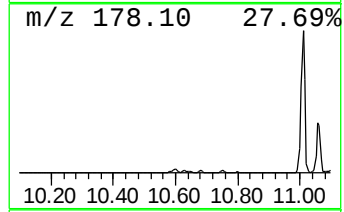
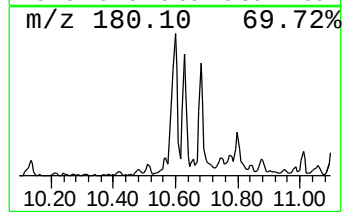
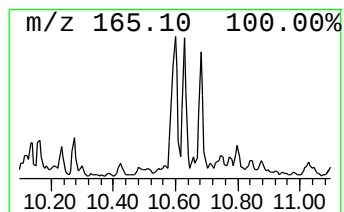
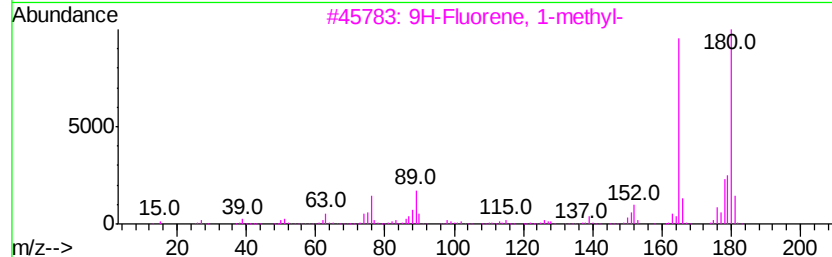
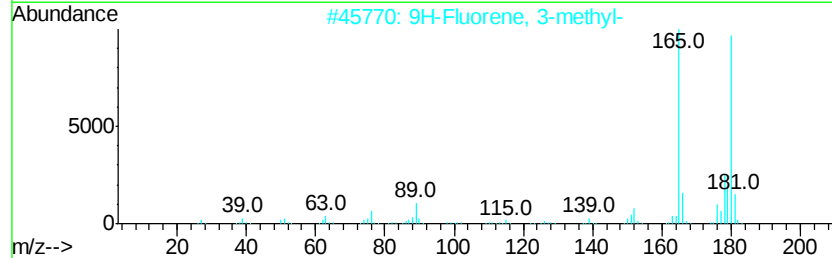
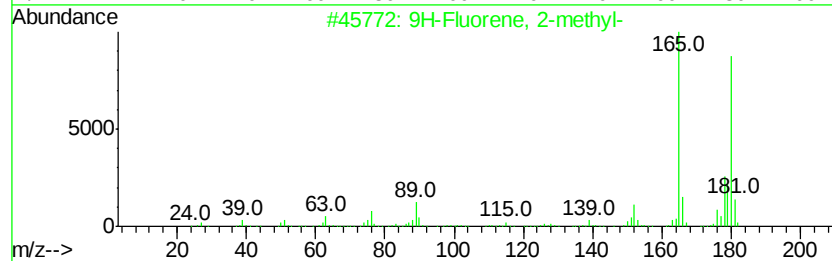
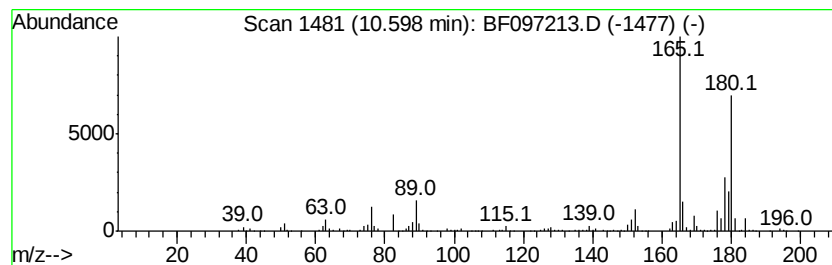
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 9H-Fluorene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.60	11.50 ng	323863	Phenanthrene-d10	10.99

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	90
2		9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	90
3		9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	83
4		(3H)Benzo[c]pyrrole, 3-methyl-3-...	208	C14H12N2	059341-20-7	80
5		9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	72



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
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Sample : I4488-01 2X
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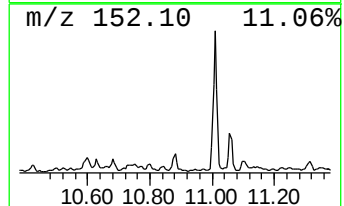
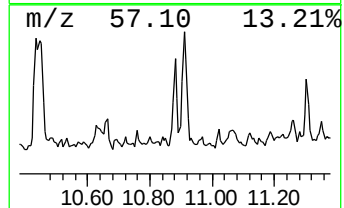
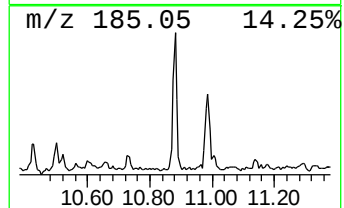
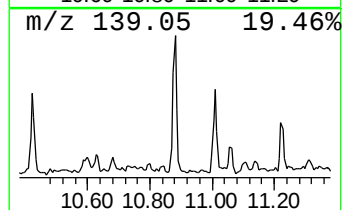
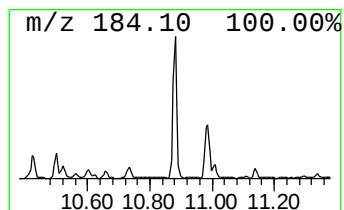
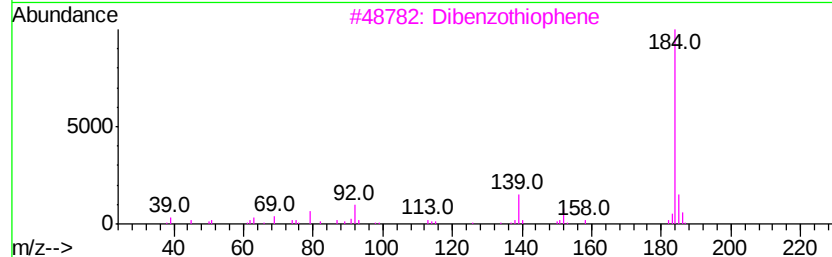
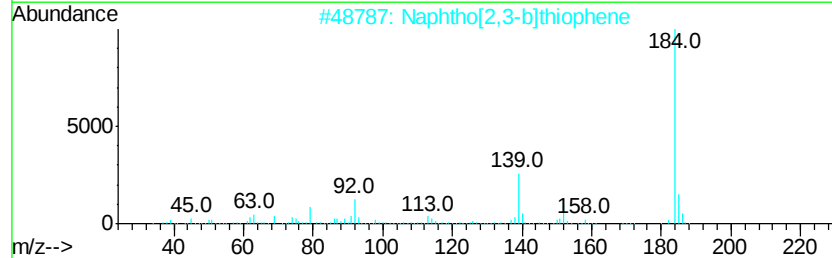
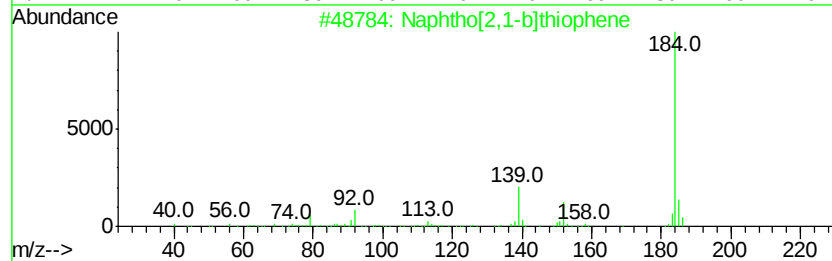
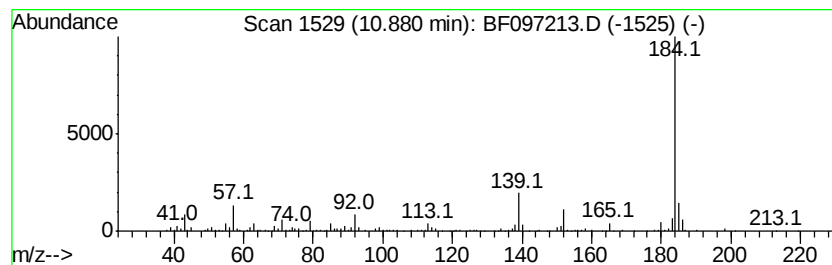
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Naphtho[2,1-b]thiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD		R.T.	
10.88	8.33 ng	234586	Phenanthrene-d10		10.99	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
2		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
3		Dibenzothiophene	184	C12H8S	000132-65-0	94
4		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
5		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87



Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
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Sample : I4488-01 2X
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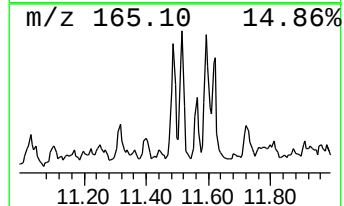
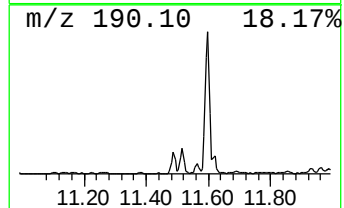
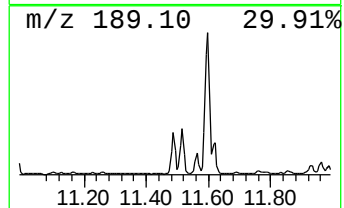
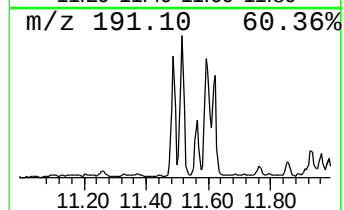
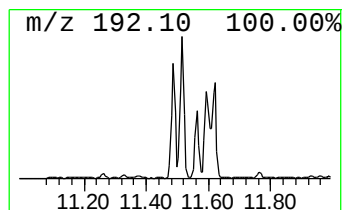
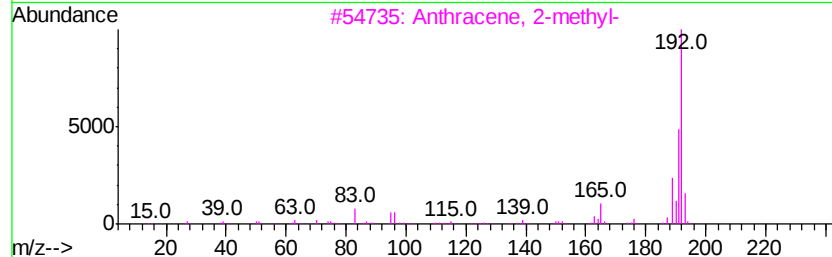
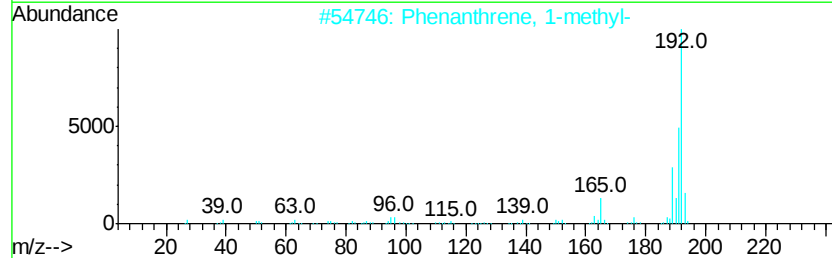
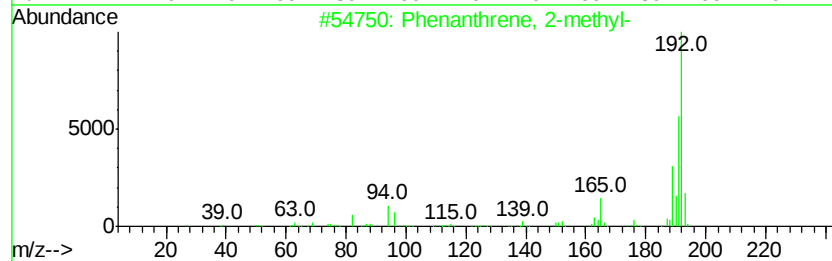
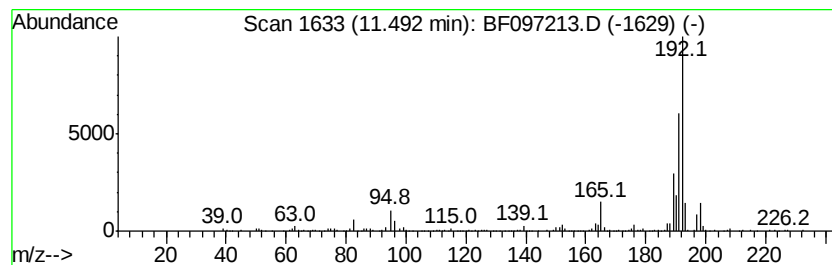
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.49	17.44 ng	490944	Phenanthrene-d10	10.99	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
Data File : BF097213.D
Acq On : 31 Jul 2017 17:42
Operator : SJ/JU
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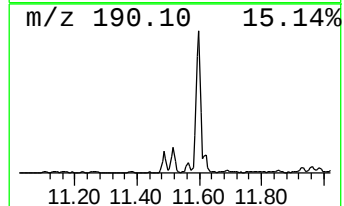
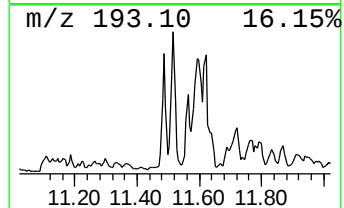
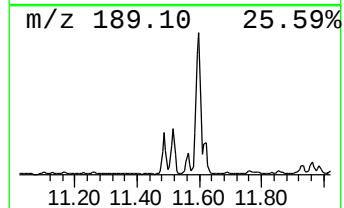
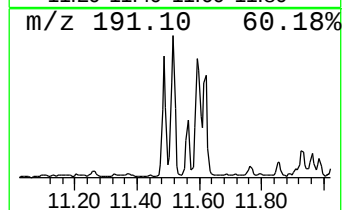
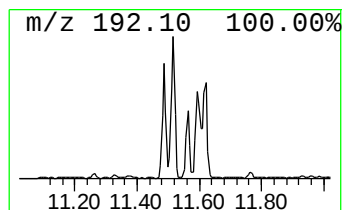
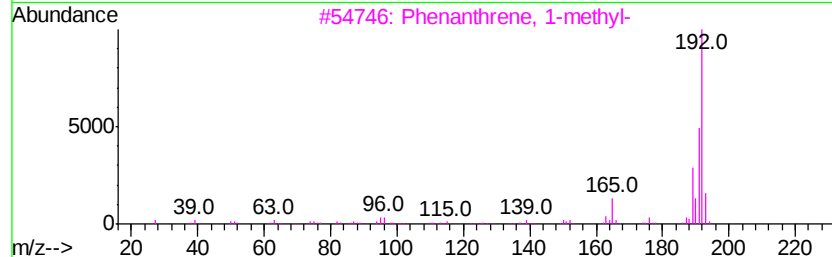
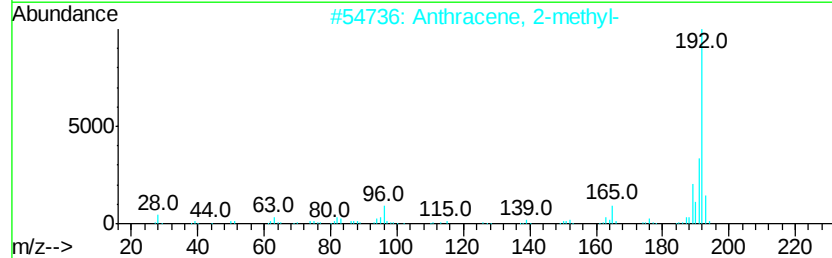
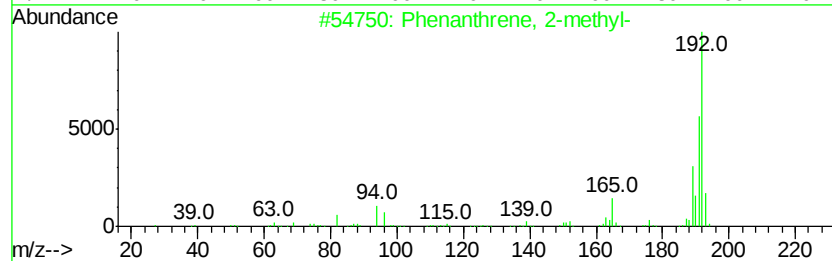
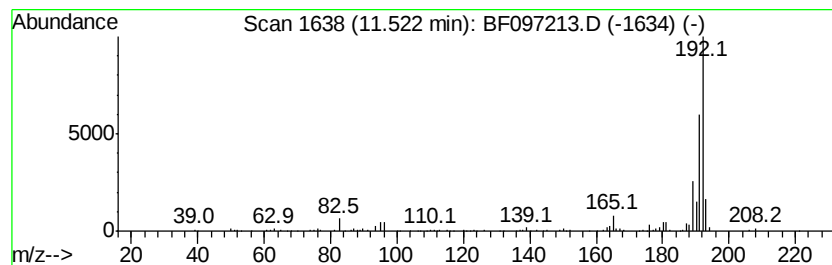
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Anthracene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.52	18.76 ng	528283	Phenanthrene-d10	10.99

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4		Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
5		Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
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Acq On : 31 Jul 2017 17:42
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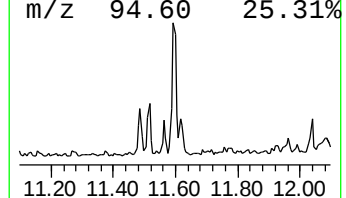
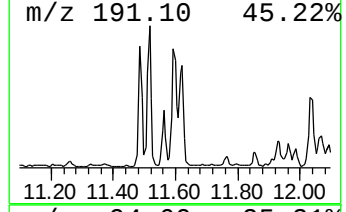
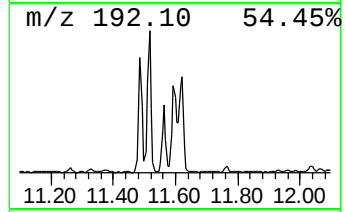
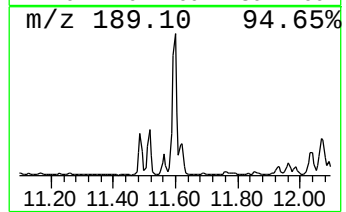
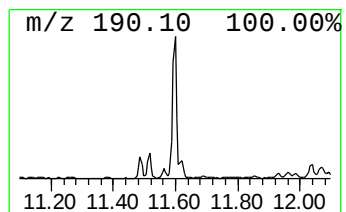
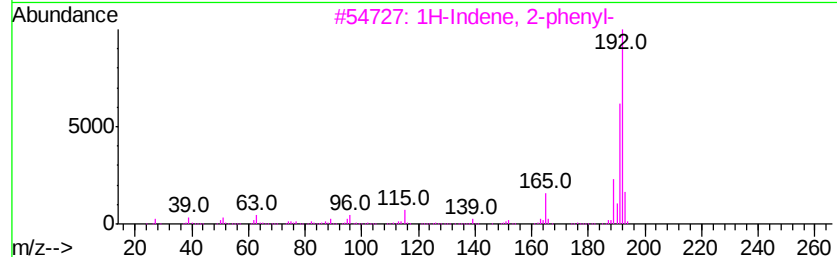
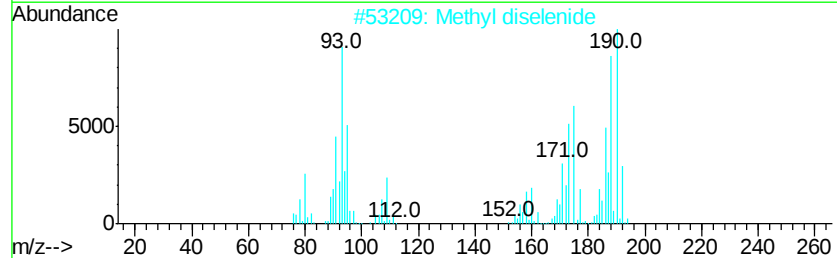
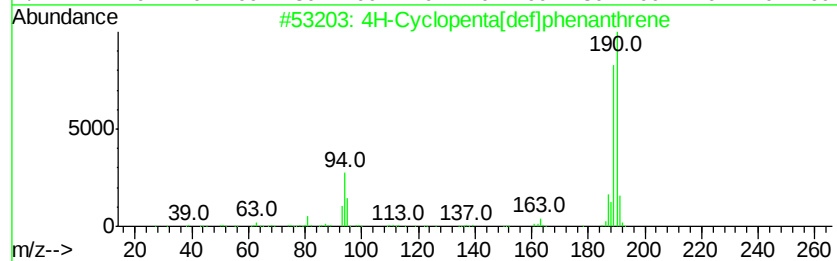
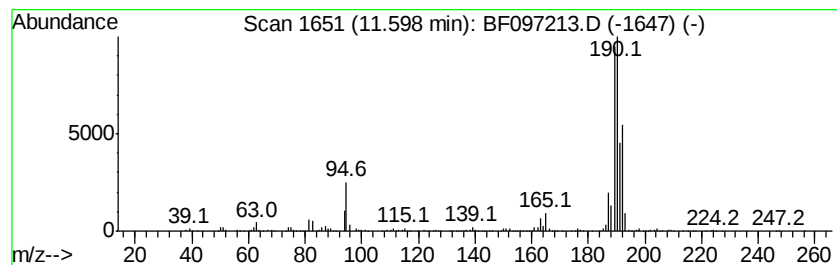
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.60	34.59 ng	974066	Phenanthrene-d10	10.99

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2		Methyl diselenide	190	C2H6Se2	007101-31-7	38
3		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	35
4		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	25
5		5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	25



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
Data File : BF097213.D
Acq On : 31 Jul 2017 17:42
Operator : SJ/JU
Sample : I4488-01 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-A

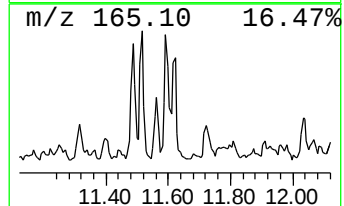
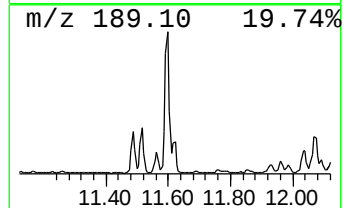
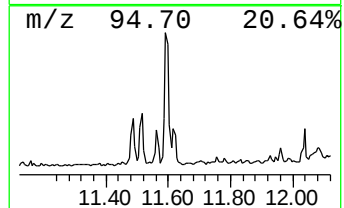
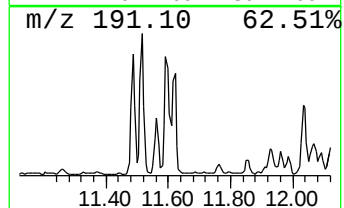
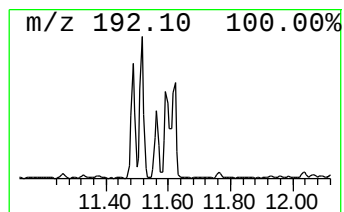
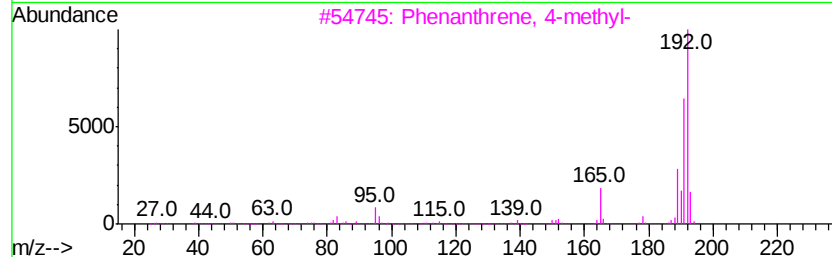
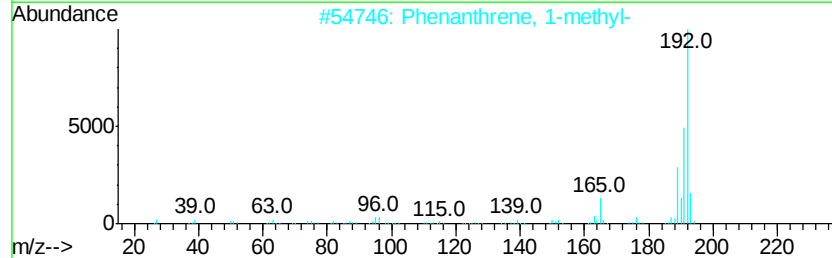
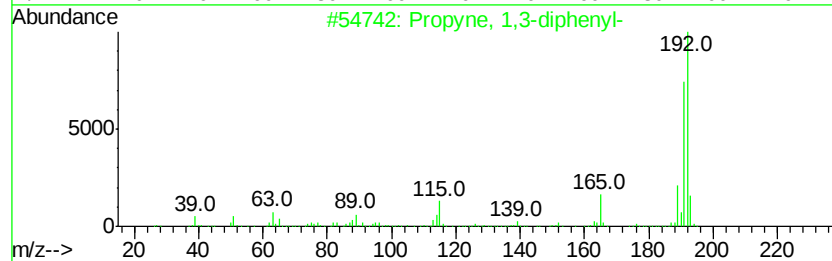
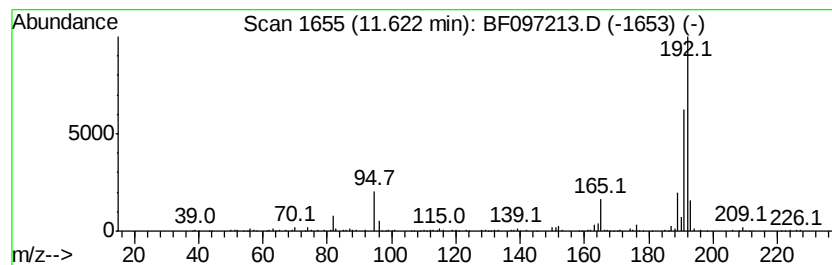
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Propyne, 1,3-diphenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.62	14.36 ng	404329	Phenanthrene-d10	10.99

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	76
2		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	76
3		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	76
4		Anthracene, 9-methyl-	192	C15H12	000779-02-2	76
5		1H-Cyclopropa[1]phenanthrene, 1a, ...	192	C15H12	000949-41-7	76



Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
Data File : BF097213.D
Acq On : 31 Jul 2017 17:42
Operator : SJ/JU
Sample : I4488-01 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
CL-02-072717-A

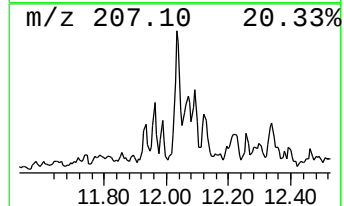
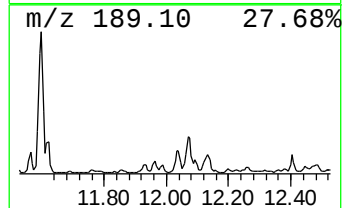
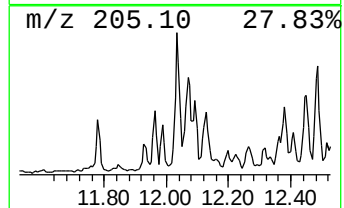
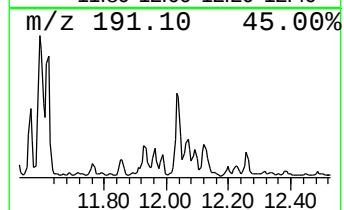
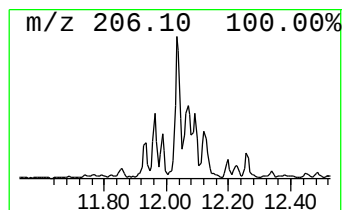
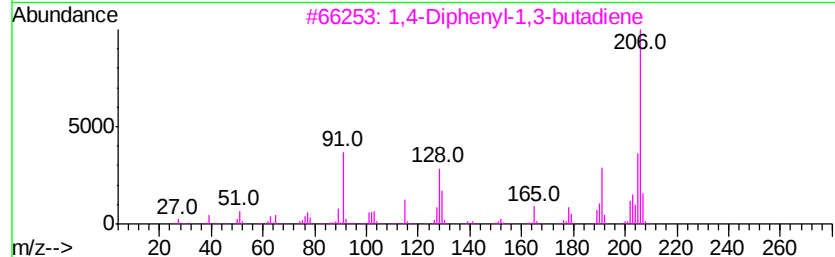
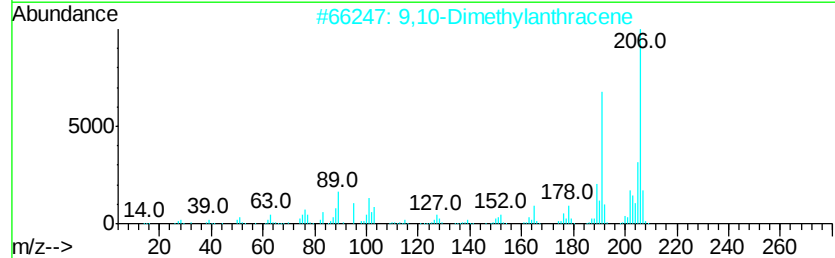
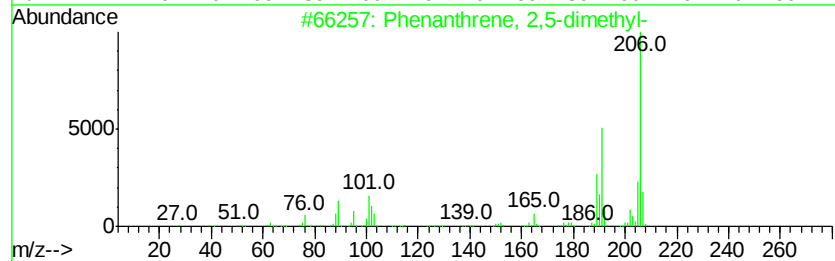
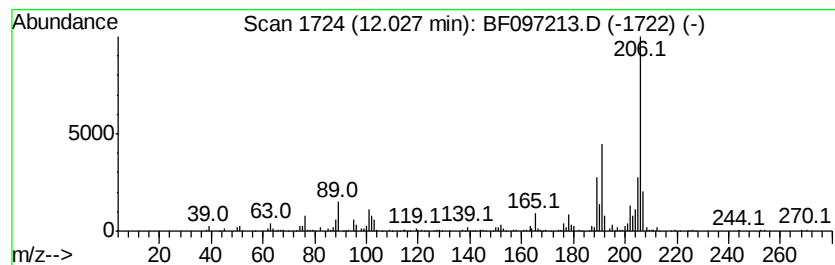
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	18.48 ng	520309	Phenanthrene-d10	10.99

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2		9,10-Dimethylantracene	206	C16H14	000781-43-1	94
3		1,4-Diphenyl-1,3-butadiene	206	C16H14	000886-65-7	93
4		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
5		Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
Data File : BF097213.D
Acq On : 31 Jul 2017 17:42
Operator : SJ/JU
Sample : I4488-01 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
CL-02-072717-A

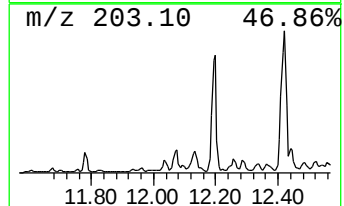
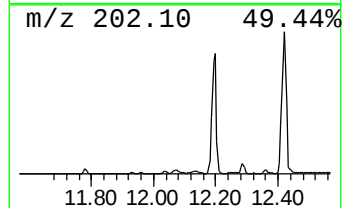
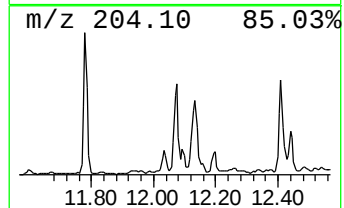
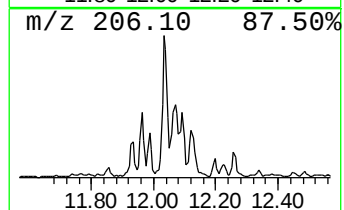
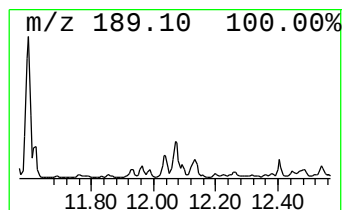
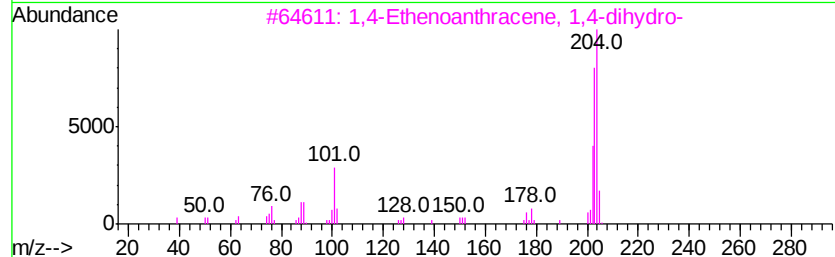
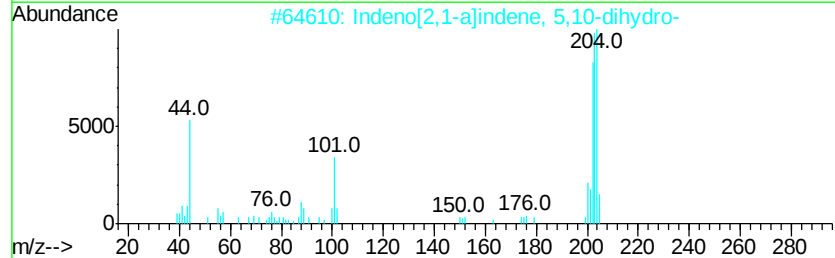
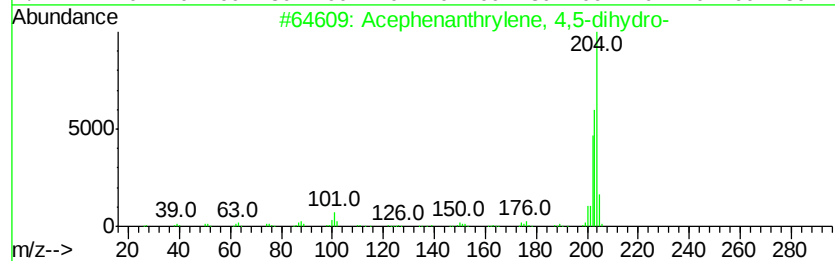
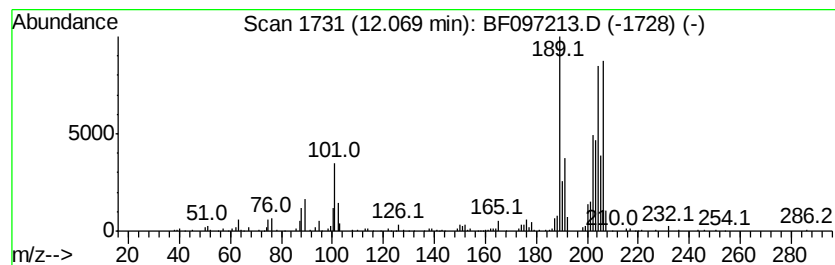
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Acephenanthrylene, 4,5-dihy... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	17.04 ng	479724	Phenanthrene-d10	10.99

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	52
2		Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	41
3		1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	38
4		2H-Cyclopentacyclooctene, 4,5,6,...	204	C15H24	1000221-85-8	38
5		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	35



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
Data File : BF097213.D
Acq On : 31 Jul 2017 17:42
Operator : SJ/JU
Sample : I4488-01 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
CL-02-072717-A

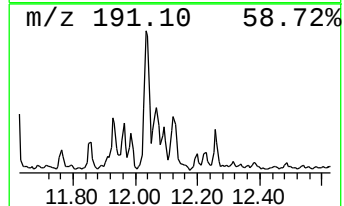
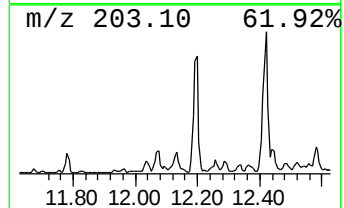
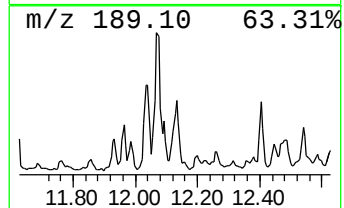
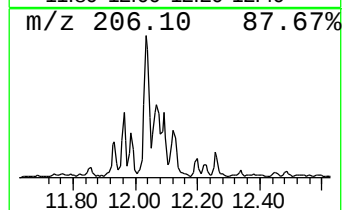
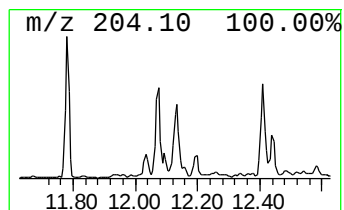
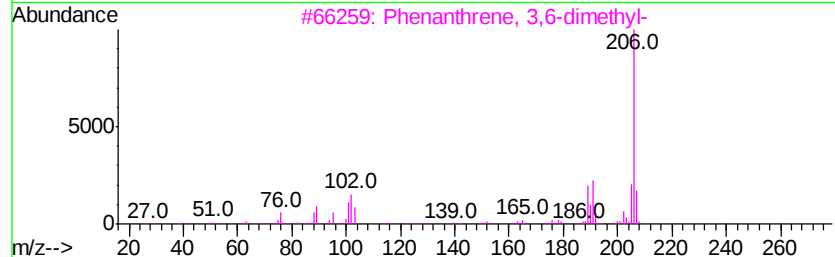
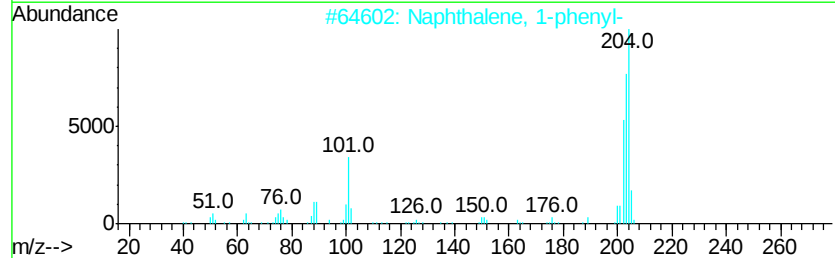
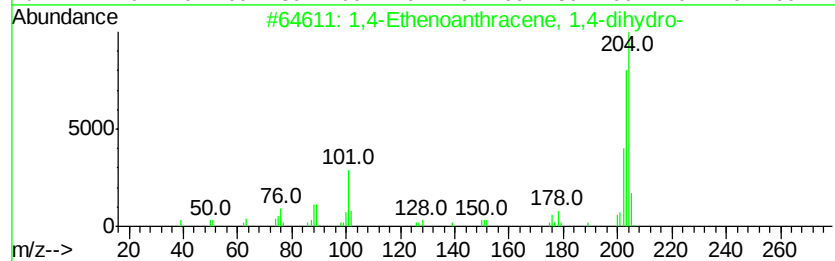
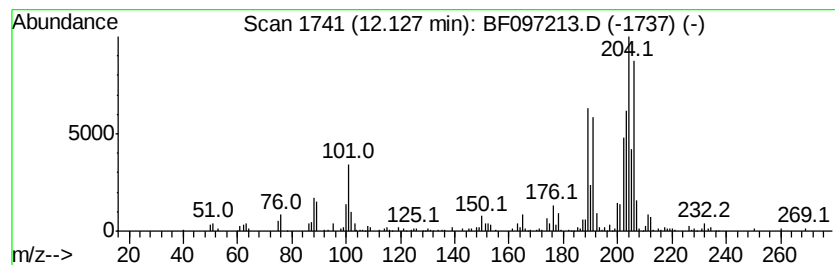
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 1,4-Ethenoanthracene, 1,4-d... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	9.06 ng	255176	Phenanthrene-d10	10.99

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	72
2			Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	70
3			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	70
4			Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	55
5			5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	51



Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
Data File : BF097213.D
Acq On : 31 Jul 2017 17:42
Operator : SJ/JU
Sample : I4488-01 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

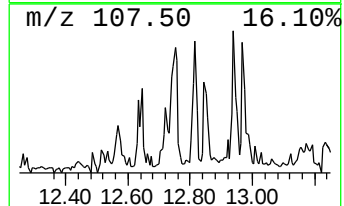
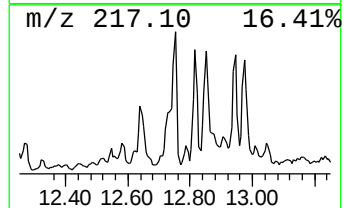
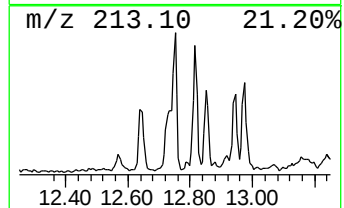
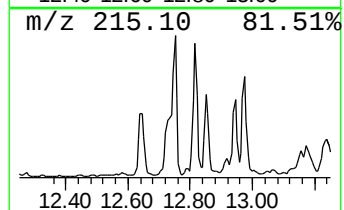
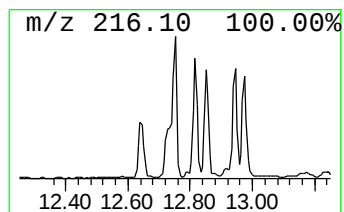
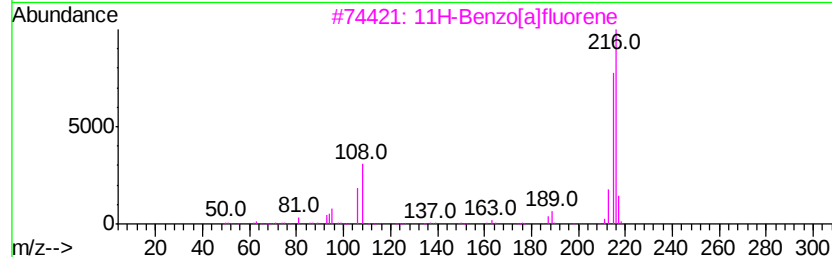
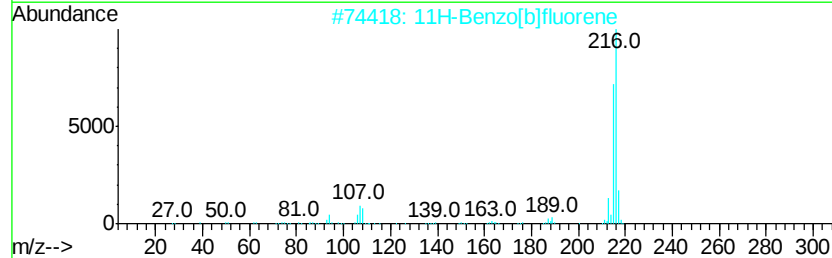
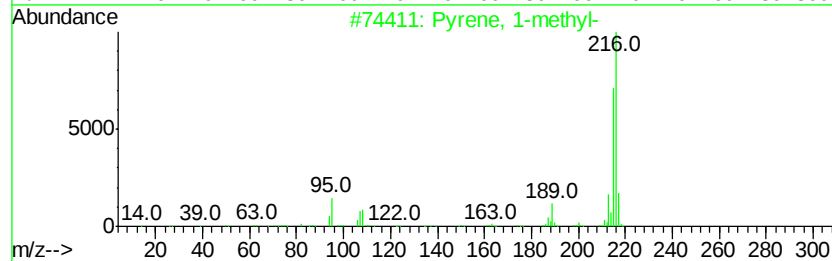
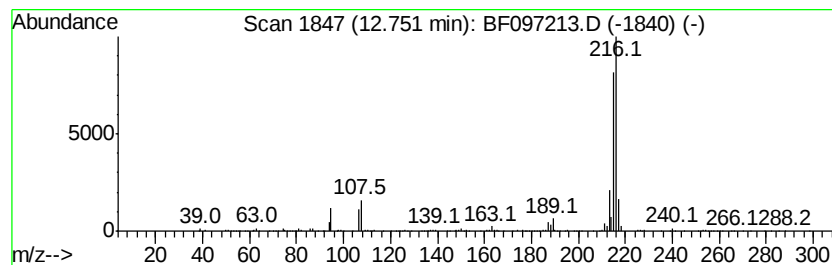
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Pyrene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.75	10.63 ng	821976	Chrysene-d12	13.62
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Pyrene, 1-methyl-	216 C17H12	002381-21-7 90
2		11H-Benzo[b]fluorene	216 C17H12	000243-17-4 87
3		11H-Benzo[a]fluorene	216 C17H12	000238-84-6 87
4		Fluoranthene, 2-methyl-	216 C17H12	033543-31-6 81
5		Pyrene, 2-methyl-	216 C17H12	003442-78-2 76



Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
Data File : BF097213.D
Acq On : 31 Jul 2017 17:42
Operator : SJ/JU
Sample : I4488-01 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

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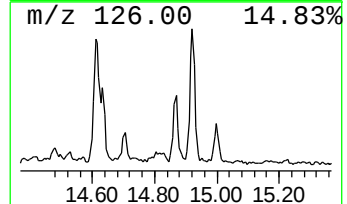
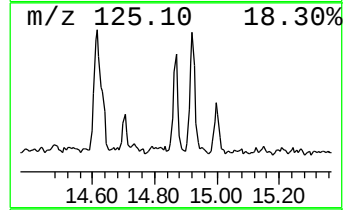
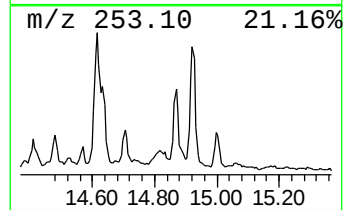
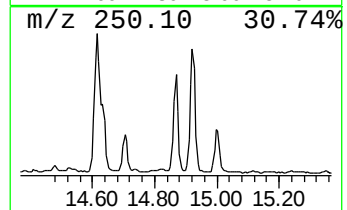
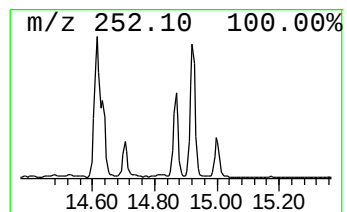
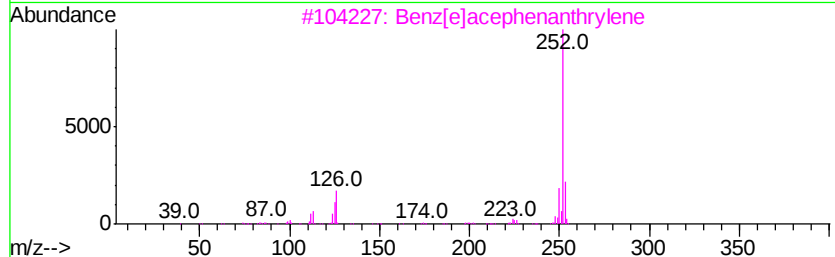
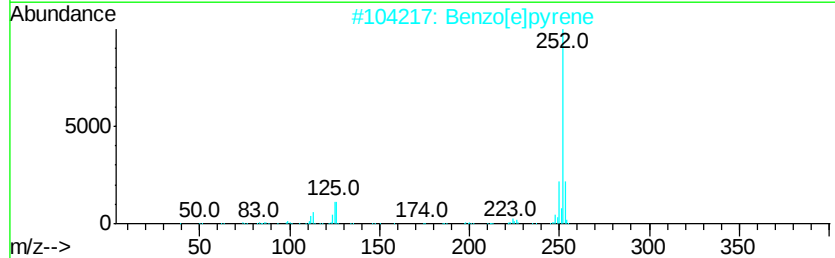
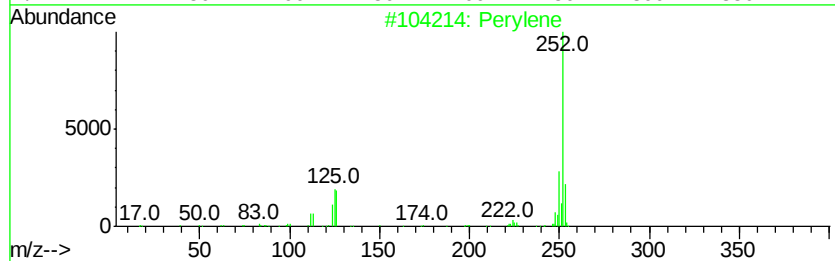
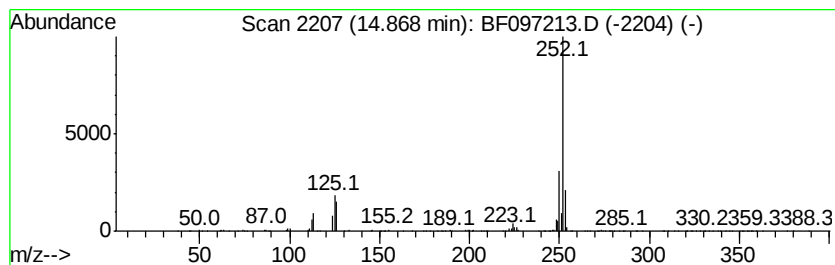
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Perylene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.87	21.07 ng	377650	Perylene-d12	14.97

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Perylene	252	C20H12	000198-55-0	99
2		Benzo[e]pyrene	252	C20H12	000192-97-2	98
3		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	98
4		Benzo[a]pyrene	252	C20H12	000050-32-8	95
5		Benzo[j]fluoranthene	252	C20H12	000205-82-3	95



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
Data File : BF097213.D
Acq On : 31 Jul 2017 17:42
Operator : SJ/JU
Sample : I4488-01 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CL-02-072717-A

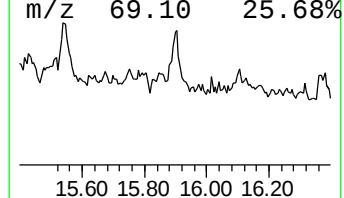
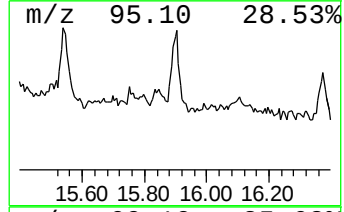
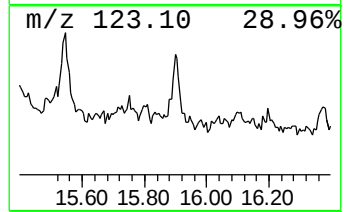
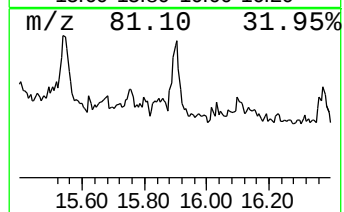
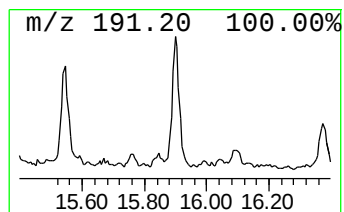
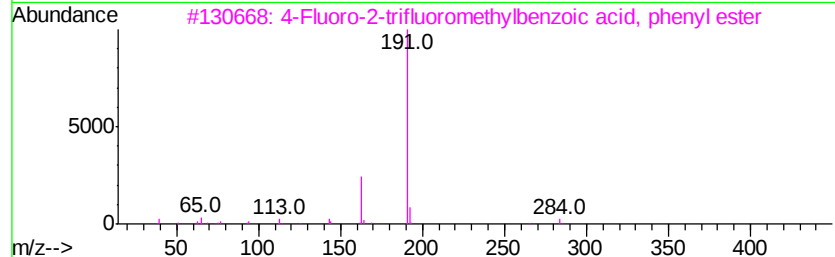
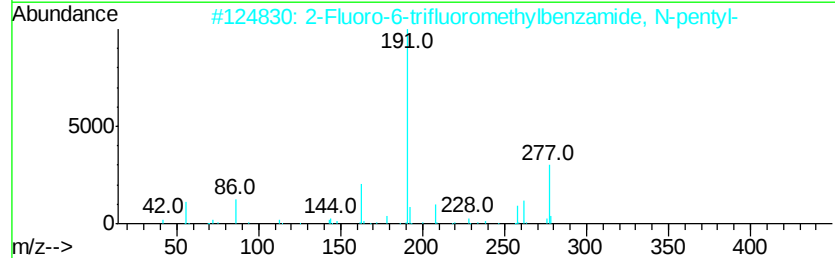
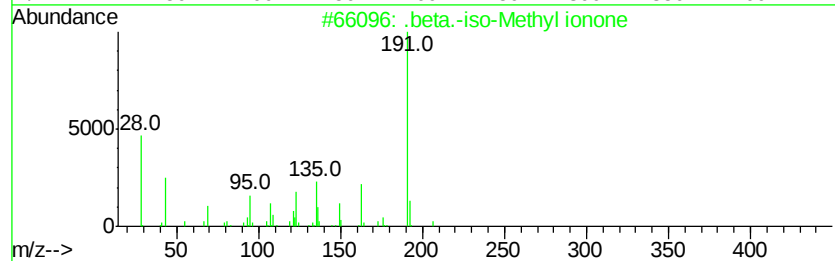
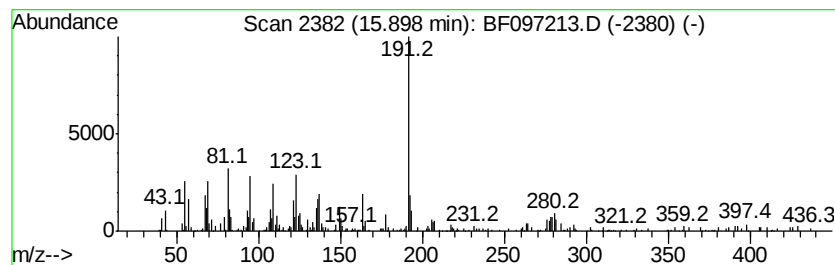
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 .beta.-iso-Methyl ionone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.90	20.03 ng	358898	Perylene-d12	14.97

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	.beta.-iso-Methyl ionone	206	C14H22O	1000285-40-2	68
2		2-Fluoro-6-trifluoromethylbenzam...	277	C13H15F4NO	1000358-11-1	43
3		4-Fluoro-2-trifluoromethylbenzoi...	284	C14H8F4O2	1000357-66-1	43
4		1-Penten-3-one, 1-(2,6,6-trimeth...	206	C14H22O	000127-43-5	41
5		4-Fluoro-2-trifluoromethylbenzoi...	302	C14H7F5O2	1000343-76-9	38



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
 Data File : BF097213.D
 Acq On : 31 Jul 2017 17:42
 Operator : SJ/JU
 Sample : I4488-01 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-02-072717-A

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
unknown6.26	6.26	44.0	ng	1524570	1	6.48	692807	20.0
Naphthalene, 1-me...	8.57	8.8	ng	447421	2	7.76	1010610	20.0
Naphthalene, 1,7-...	9.10	10.3	ng	398790	3	9.51	778389	20.0
Naphthalene, 1,6-...	9.17	12.8	ng	499188	3	9.51	778389	20.0
Naphthalene, 1,6,...	9.83	7.5	ng	290550	3	9.51	778389	20.0
9H-Fluorene, 2-me...	10.60	11.5	ng	323863	4	10.99	563130	20.0
Naphtho[2,1-b]thi...	10.88	8.3	ng	234586	4	10.99	563130	20.0
Phenanthrene, 2-m...	11.49	17.4	ng	490944	4	10.99	563130	20.0
Anthracene, 2-met...	11.52	18.8	ng	528283	4	10.99	563130	20.0
4H-Cyclopenta[def...	11.60	34.6	ng	974066	4	10.99	563130	20.0
Propyne, 1,3-diph...	11.62	14.4	ng	404329	4	10.99	563130	20.0
Phenanthrene, 2,5...	12.03	18.5	ng	520309	4	10.99	563130	20.0
Acephenanthrylene...	12.07	17.0	ng	479724	4	10.99	563130	20.0
1,4-Ethenoanthrac...	12.13	9.1	ng	255176	4	10.99	563130	20.0
Pyrene, 1-methyl-	12.75	10.6	ng	821976	5	13.62	1547070	20.0
Perylene	14.87	21.1	ng	377650	6	14.97	358430	20.0
.beta.-iso-Methyl...	15.90	20.0	ng	358898	6	14.97	358430	20.0