

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
 Data File : BF097187.D
 Acq On : 29 Jul 2017 7:15
 Operator : SJ/JU
 Sample : I4421-13 5X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-N7-SSW

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	5.081	540	543	556	rBV	577834	674240	30.47%	1.212%
2	6.151	722	725	734	rVV	562038	748602	33.83%	1.346%
3	6.228	734	738	741	rVV	869447	814075	36.79%	1.463%
4	6.263	741	744	749	rVV	759965	837894	37.87%	1.506%
5	6.487	778	782	786	rBV	767917	689208	31.15%	1.239%
6	6.522	786	788	790	rVB	217391	164192	7.42%	0.295%
7	6.640	803	808	818	rVB2	613406	818339	36.99%	1.471%
8	6.775	829	831	835	rVB2	118006	147125	6.65%	0.264%
9	6.816	835	838	841	rBV	221993	183352	8.29%	0.330%
10	6.881	846	849	853	rBV3	125039	175201	7.92%	0.315%
11	7.034	869	875	876	rBV2	234229	262095	11.85%	0.471%
12	7.051	876	878	881	rVB	416503	329045	14.87%	0.592%
13	7.151	889	895	898	rVB4	167537	256244	11.58%	0.461%
14	7.216	904	906	910	rVB4	123057	134100	6.06%	0.241%
15	7.269	910	915	917	rBV2	287861	277093	12.52%	0.498%
16	7.292	917	919	925	rVB2	615858	595773	26.93%	1.071%
17	7.410	936	939	942	rVB4	303824	268904	12.15%	0.483%
18	7.440	942	944	947	rVB3	217213	192000	8.68%	0.345%
19	7.475	947	950	953	rBV3	163789	184042	8.32%	0.331%
20	7.510	953	956	959	rVB3	488059	475732	21.50%	0.855%
21	7.551	959	963	967	rBV3	384401	379820	17.17%	0.683%
22	7.592	967	970	976	rVB2	377369	528917	23.91%	0.951%
23	7.651	976	980	983	rBV	378371	376348	17.01%	0.677%
24	7.739	991	995	997	rBV2	296703	416749	18.84%	0.749%
25	7.769	997	1000	1002	rBV	1222166	1081401	48.88%	1.944%
26	7.798	1002	1005	1013	rVB4	1001905	1791692	80.98%	3.221%
27	7.857	1013	1015	1016	rBV	600187	489982	22.15%	0.881%
28	7.910	1021	1024	1026	rVB2	156710	142934	6.46%	0.257%
29	7.957	1029	1032	1036	rBV3	556250	653138	29.52%	1.174%
30	8.057	1041	1049	1051	rBV3	680573	1155041	52.20%	2.076%
31	8.081	1051	1053	1056	rVB2	392722	323907	14.64%	0.582%
32	8.110	1056	1058	1060	rVB	373204	270799	12.24%	0.487%
33	8.139	1060	1063	1065	rBV3	485422	540414	24.43%	0.972%
34	8.163	1065	1067	1074	rVB2	1347175	1455502	65.78%	2.617%

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

35	8.222	1074	1077	1079	rBV3	958372	1026151	46.38%	1.845%
36	8.245	1079	1081	1084	rVB	823989	596381	26.95%	1.072%
37	8.281	1084	1087	1088	rBV2	163402	132515	5.99%	0.238%
38	8.316	1091	1093	1095	rVB	336761	265673	12.01%	0.478%
39	8.345	1095	1098	1099	rBV	553109	411050	18.58%	0.739%
40	8.363	1099	1101	1105	rBV2	426880	420312	19.00%	0.756%
41	8.398	1105	1107	1111	rBV3	347530	417036	18.85%	0.750%
42	8.487	1118	1122	1125	rVB	1739006	1668190	75.40%	2.999%
43	8.528	1125	1129	1131	rBV3	167771	226715	10.25%	0.408%
44	8.587	1135	1139	1143	rVV	2057882	2212539	100.00%	3.977%
45	8.622	1143	1145	1148	rVV2	252461	263518	11.91%	0.474%
46	8.663	1149	1152	1154	rVV4	288313	384415	17.37%	0.691%
47	8.692	1154	1157	1159	rVV3	426404	557615	25.20%	1.002%
48	8.722	1159	1162	1164	rVV4	399552	480686	21.73%	0.864%
49	8.763	1164	1169	1171	rVB2	460517	529454	23.93%	0.952%
50	8.792	1171	1174	1175	rBV2	139185	165019	7.46%	0.297%
51	8.816	1175	1178	1180	rVB	996013	763683	34.52%	1.373%
52	8.845	1180	1183	1185	rBV	489371	410289	18.54%	0.738%
53	8.945	1194	1200	1206	rBV2	1022629	1421526	64.25%	2.555%
54	8.998	1206	1209	1212	rVV	505633	513356	23.20%	0.923%
55	9.028	1212	1214	1215	rVV	282108	218655	9.88%	0.393%
56	9.051	1215	1218	1223	rVB	699349	865410	39.11%	1.556%
57	9.116	1223	1229	1234	rBV4	678278	1156260	52.26%	2.079%
58	9.163	1234	1237	1238	rVV3	254478	275557	12.45%	0.495%
59	9.186	1238	1241	1244	rVV2	1668437	2109766	95.35%	3.793%
60	9.210	1244	1245	1247	rVV	970694	700546	31.66%	1.259%
61	9.234	1247	1249	1251	rVV2	471122	442558	20.00%	0.796%
62	9.269	1252	1255	1258	rVV3	1355639	1475626	66.69%	2.653%
63	9.298	1258	1260	1267	rVB2	1176320	1429283	64.60%	2.569%
64	9.381	1270	1274	1280	rBV3	524051	867988	39.23%	1.560%
65	9.428	1280	1282	1287	rVB3	412169	466382	21.08%	0.838%
66	9.475	1287	1290	1292	rBV	579523	598654	27.06%	1.076%
67	9.498	1292	1294	1295	rVV2	462200	393711	17.79%	0.708%
68	9.516	1295	1297	1301	rVB3	787951	718867	32.49%	1.292%
69	9.586	1307	1309	1312	rVB3	270296	204199	9.23%	0.367%
70	9.633	1312	1317	1321	rBV5	377413	697994	31.55%	1.255%
71	9.675	1321	1324	1327	rVV4	327321	509278	23.02%	0.916%

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72	9.698	1327	1328	1330	rVV2	325616	272894	12.33%	0.491%
73	9.728	1330	1333	1337	rVV4	624208	891269	40.28%	1.602%
74	9.769	1337	1340	1343	rVV3	562313	660424	29.85%	1.187%
75	9.798	1343	1345	1348	rVB2	464568	386957	17.49%	0.696%
76	9.839	1348	1352	1354	rBV2	502856	508471	22.98%	0.914%
77	9.869	1354	1357	1359	rVB2	307762	264678	11.96%	0.476%
78	9.898	1359	1362	1364	rBV3	243478	279563	12.64%	0.503%
79	9.922	1364	1366	1368	rVV3	327173	297056	13.43%	0.534%
80	9.951	1368	1371	1373	rVB3	250482	234719	10.61%	0.422%
81	9.975	1373	1375	1377	rBV	216616	145382	6.57%	0.261%
82	10.033	1382	1385	1387	rVV2	745508	704026	31.82%	1.266%
83	10.063	1387	1390	1392	rVV4	190391	207294	9.37%	0.373%
84	10.086	1392	1394	1397	rVV2	203427	187405	8.47%	0.337%
85	10.128	1397	1401	1407	rVB5	270402	405908	18.35%	0.730%
86	10.192	1408	1412	1415	rVB	640503	597676	27.01%	1.074%
87	10.304	1428	1431	1434	rVB4	364780	397023	17.94%	0.714%
88	10.363	1439	1441	1444	rVB	357866	284840	12.87%	0.512%
89	10.422	1448	1451	1454	rVV2	429222	471925	21.33%	0.848%
90	10.457	1454	1457	1461	rVV	856824	827281	37.39%	1.487%
91	10.516	1463	1467	1471	rBV4	226973	310791	14.05%	0.559%
92	10.839	1519	1522	1525	rVV	131950	178135	8.05%	0.320%
93	10.869	1525	1527	1531	rVV3	158276	208108	9.41%	0.374%
94	10.916	1532	1535	1542	rVB	374730	410746	18.56%	0.738%
95	10.986	1544	1547	1550	rVV	575557	551558	24.93%	0.992%
96	12.416	1786	1790	1793	rBV	389020	337031	15.23%	0.606%
97	12.569	1813	1816	1823	rVB	524130	501933	22.69%	0.902%
98	13.116	1906	1909	1912	rBV	195511	183287	8.28%	0.329%
99	13.610	1989	1993	1996	rBV2	626322	668732	30.22%	1.202%
100	14.963	2219	2223	2228	rVV	361335	420667	19.01%	0.756%

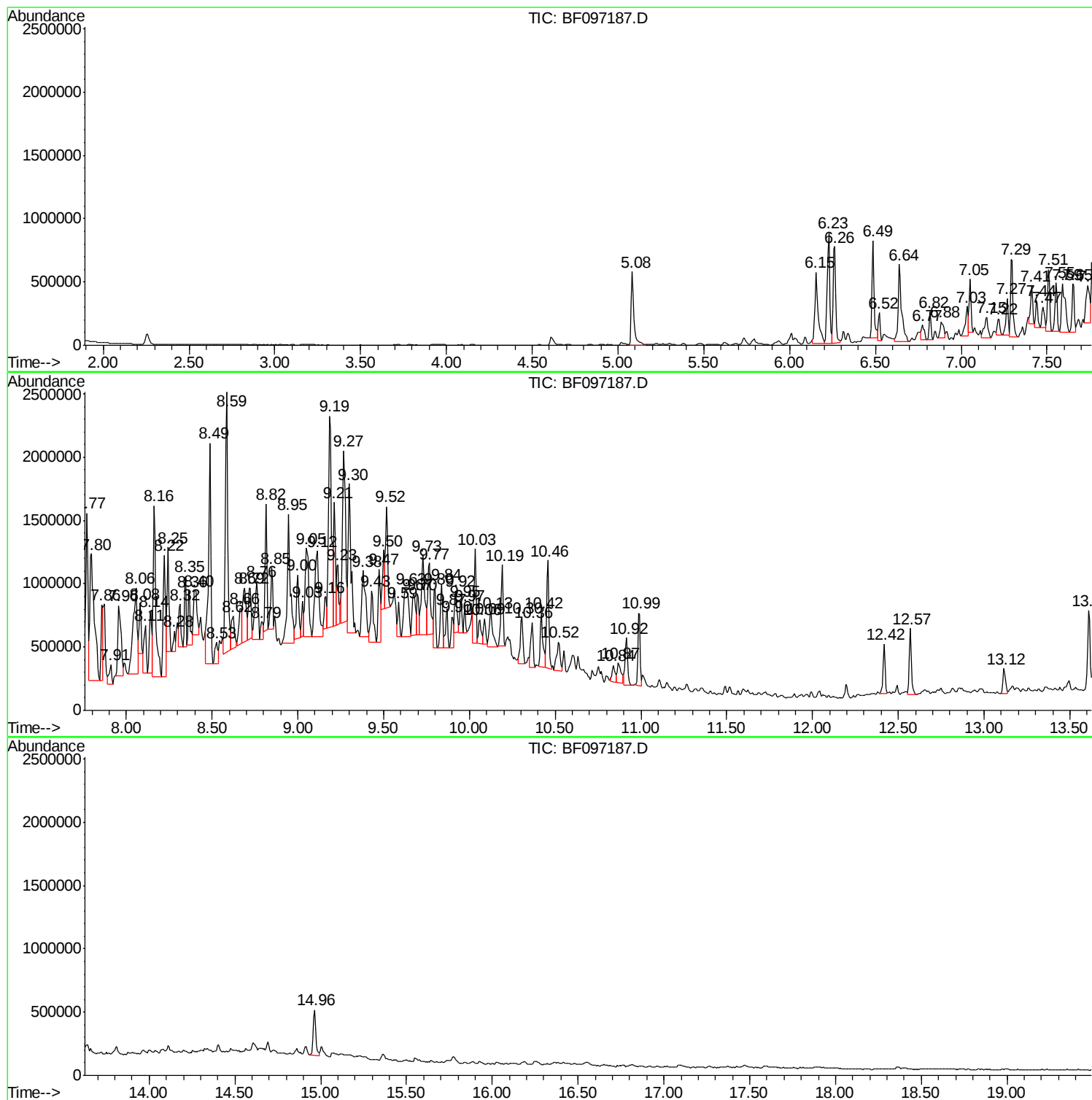
Sum of corrected areas: 55626536

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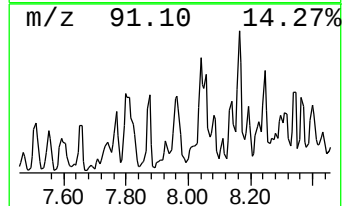
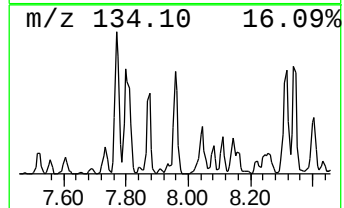
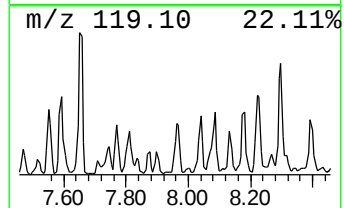
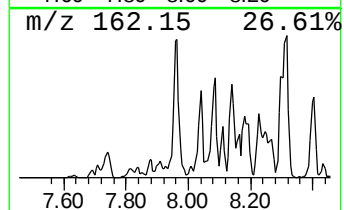
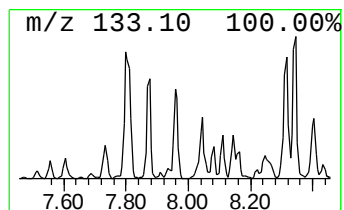
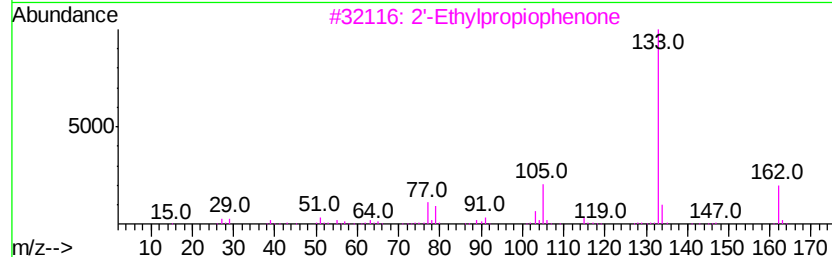
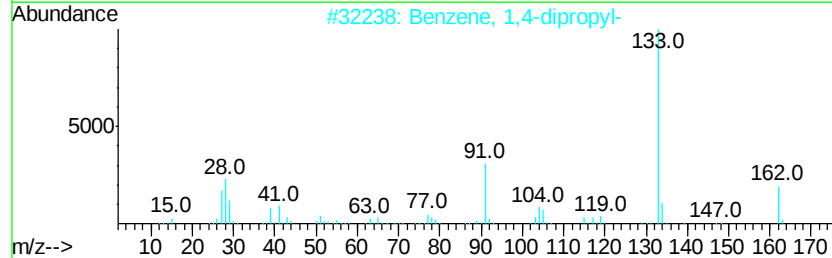
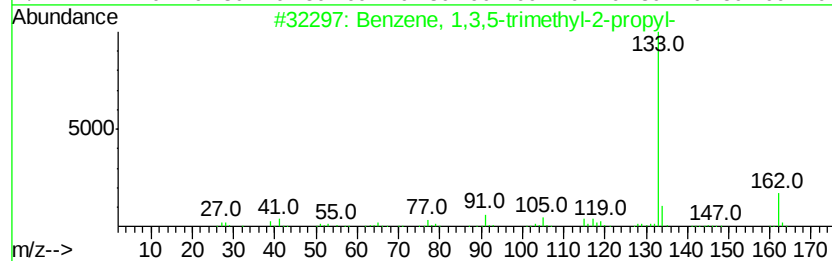
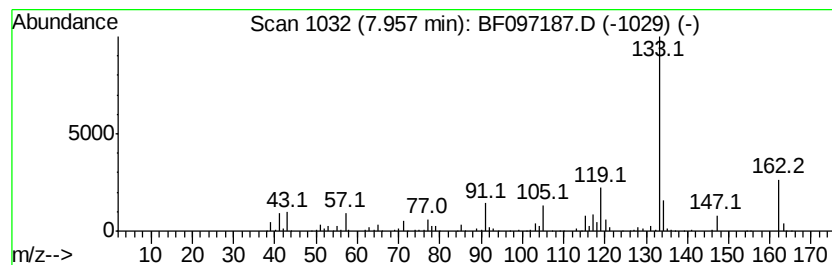
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Benzene, 1,3,5-trimethyl-2-... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.96	12.08 ng	653138	Napthalene-d8	7.77

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzene, 1,3,5-trimethyl-2-propyl-	162	C12H18	004810-04-2	87
2		Benzene, 1,4-dipropyl-	162	C12H18	004815-57-0	64
3		2'-Ethylpropiofenone	162	C11H14O	016819-79-7	59
4		1-Phenylcyclopentanol-1	162	C11H14O	010487-96-4	53
5		Benzene, 2,4-dimethyl-1-(1-methy...	148	C11H16	004706-89-2	50



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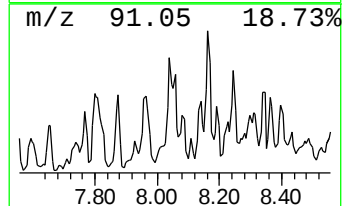
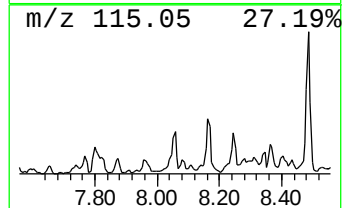
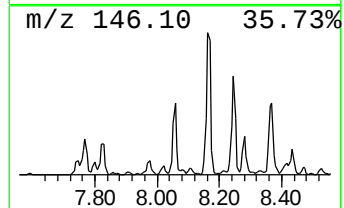
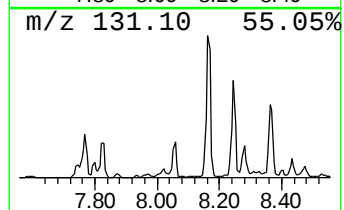
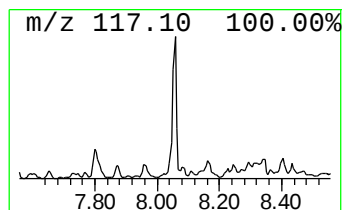
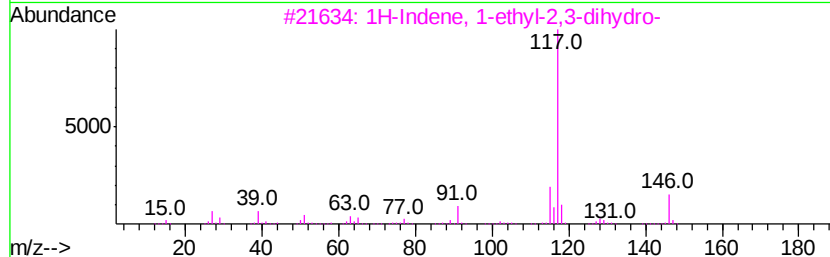
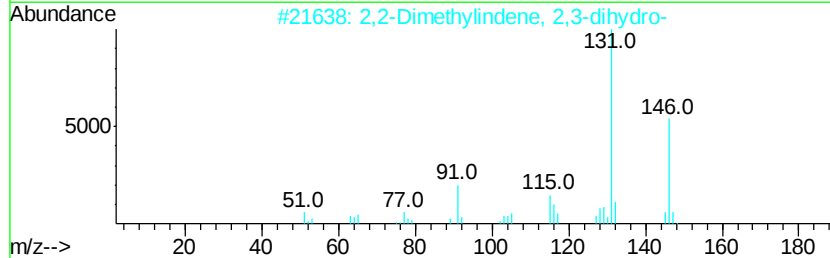
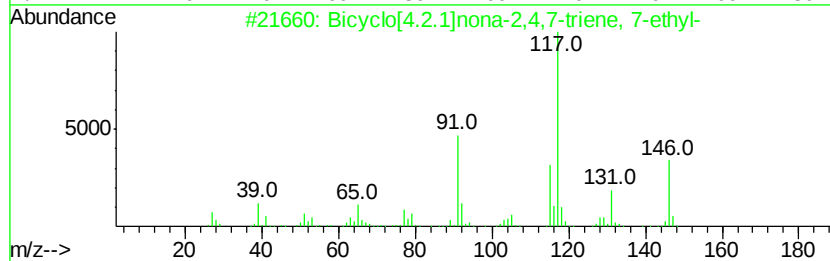
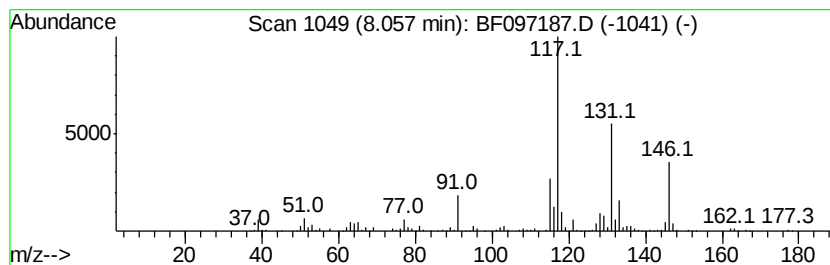
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Peak Number 2 Bicyclo[4.2.1]nona-2,4,7-tr... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.06	21.36 ng	1155040	Napthalene-d8	7.77

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Bicyclo[4.2.1]nona-2,4,7-triene,...	146	C11H14	1000164-42-6	68
2		2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	55
3		1H-Indene, 1-ethyl-2,3-dihydro-	146	C11H14	004830-99-3	52
4		trans-1-Phenyl-1-pentene	146	C11H14	016002-93-0	49
5		Benzeneacetaldehyde, .alpha.-eth...	146	C10H10O	004411-89-6	43



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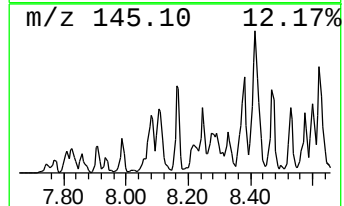
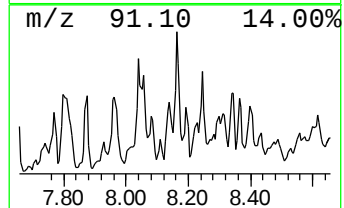
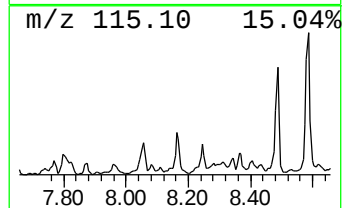
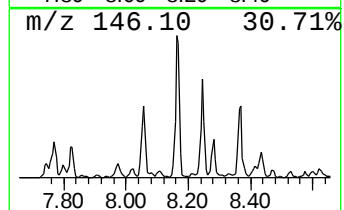
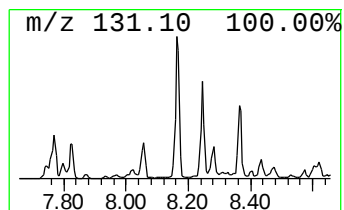
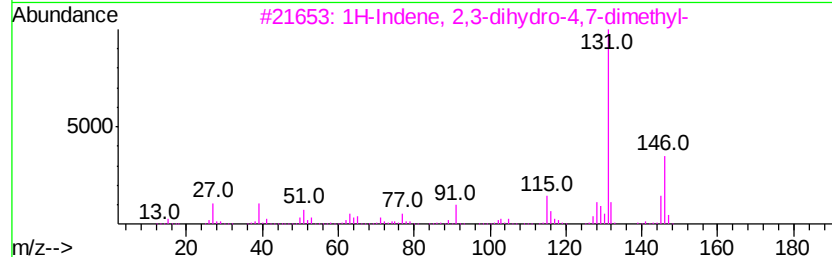
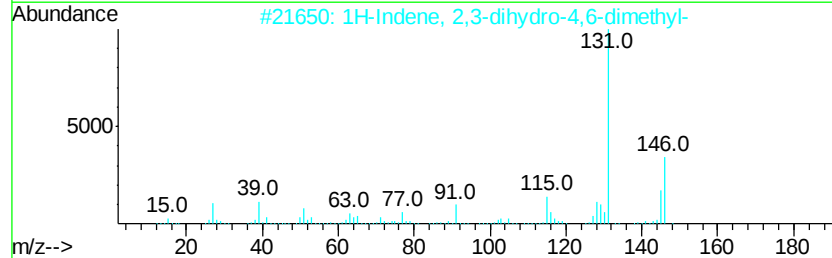
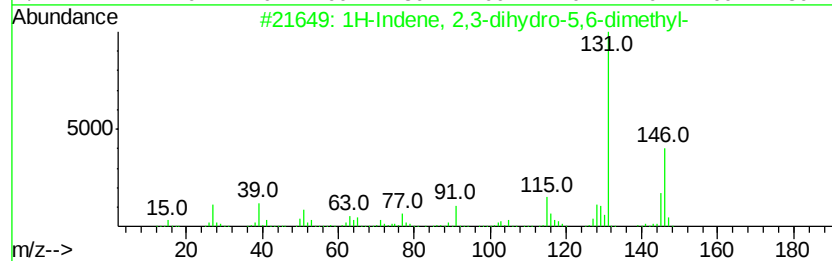
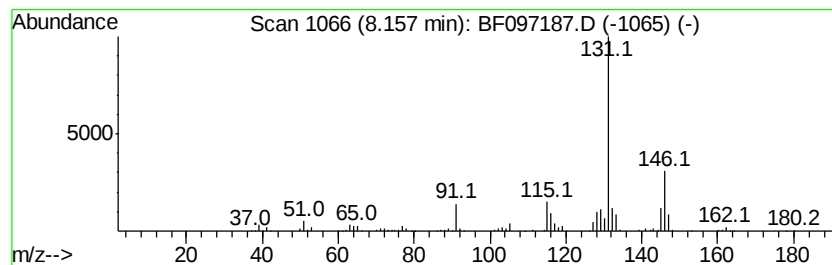
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 1H-Indene, 2,3-dihydro-5,6-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.16	26.92 ng	1455500	Naphthalene-d8	7.77

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1H-Indene, 2,3-dihydro-5,6-dimet...	146	C11H14	001075-22-5	95
2		1H-Indene, 2,3-dihydro-4,6-dimet...	146	C11H14	001685-82-1	94
3		1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	94
4		1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	94
5		1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	94



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072817\
Data File : BF097187.D
Acq On : 29 Jul 2017 7:15
Operator : SJ/JU
Sample : I4421-13 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
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ClientSampleId :
E2-N7-SSW

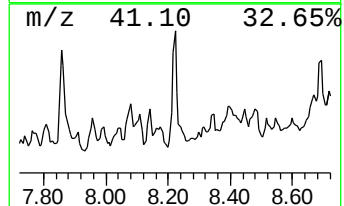
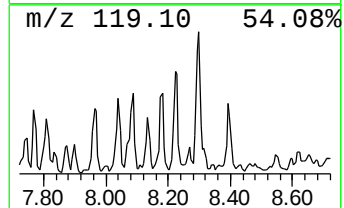
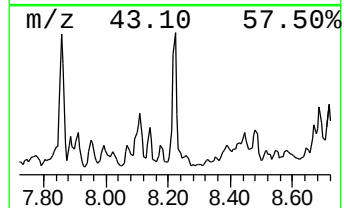
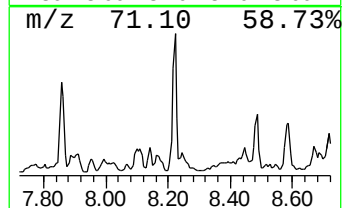
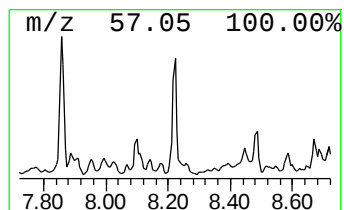
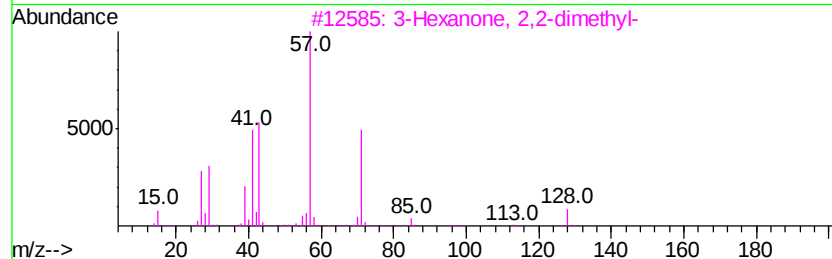
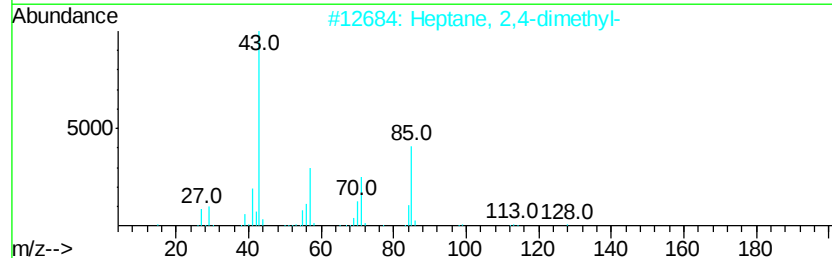
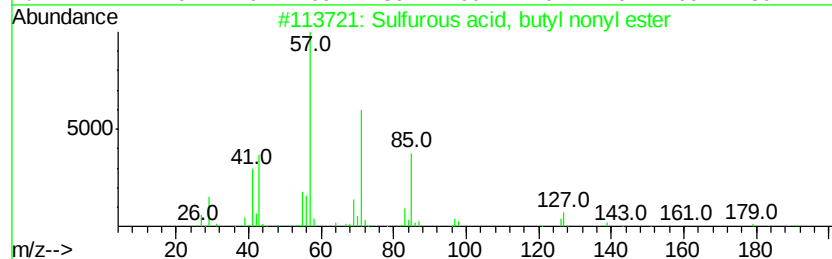
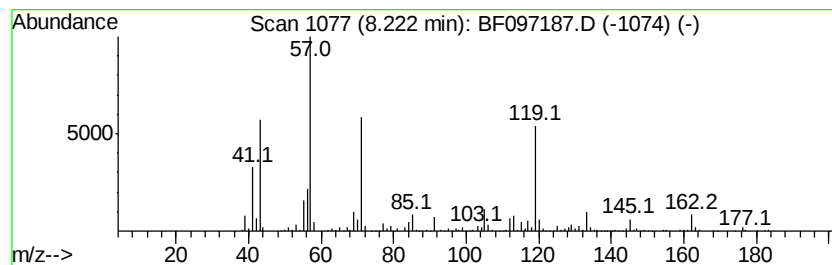
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 unknown8.22 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.22	18.98 ng	1026150	Naphthalene-d8	7.77

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Sulfurous acid, butyl nonyl ester	264	C13H28O3S	1000309-17-6	38
2		Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	35
3		3-Hexanone, 2,2-dimethyl-	128	C8H16O	005405-79-8	27
4		Decane, 2,6,7-trimethyl-	184	C13H28	062108-25-2	25
5		Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	22



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072817\
Data File : BF097187.D
Acq On : 29 Jul 2017 7:15
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Sample : I4421-13 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

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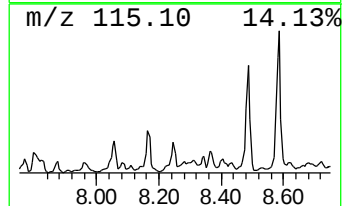
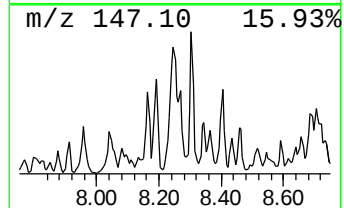
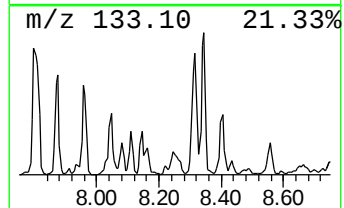
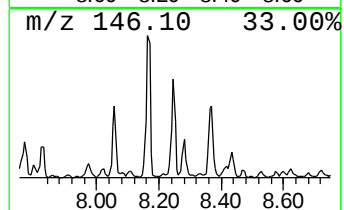
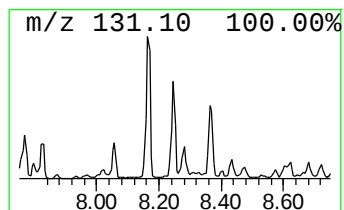
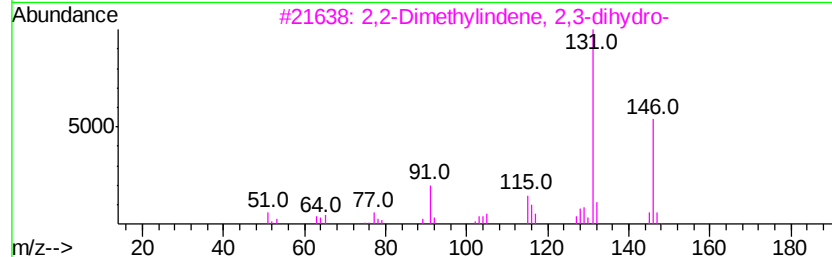
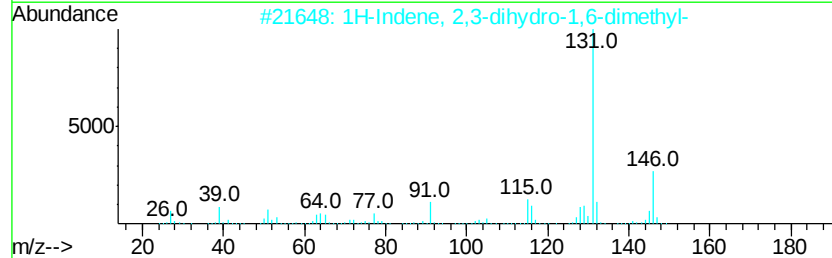
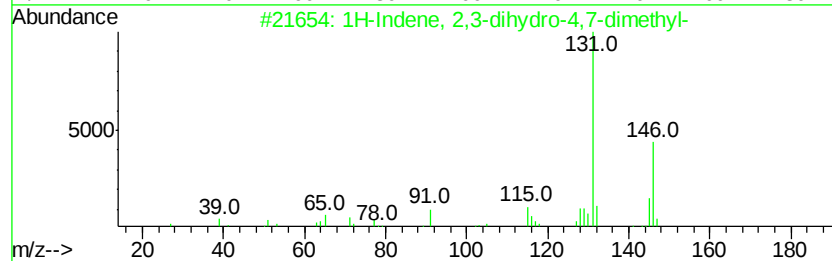
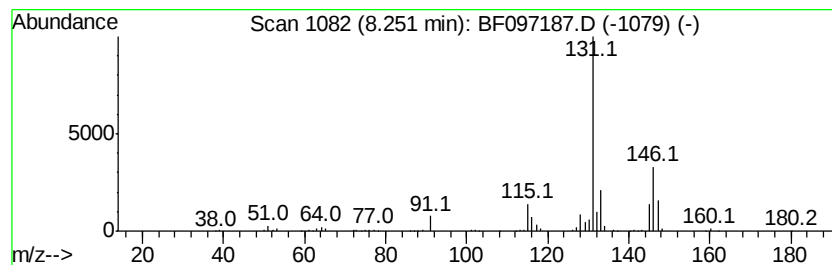
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.25	11.03 ng	596381	Napthalene-d8	7.77

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	95
2		1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	93
3		2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	87
4		1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	87
5		1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	87



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072817\
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ClientSampleId :
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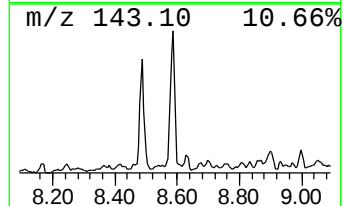
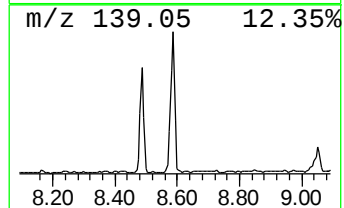
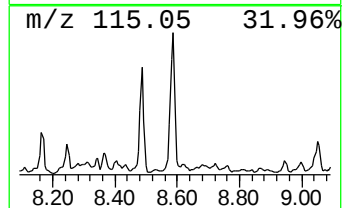
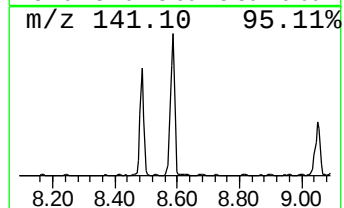
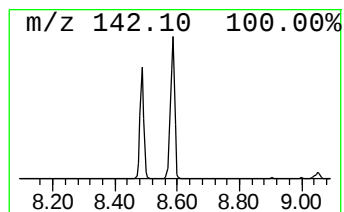
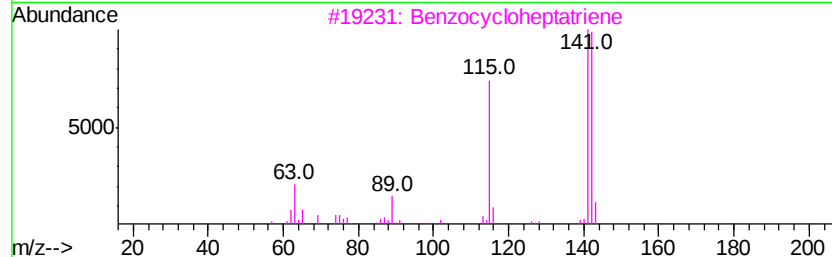
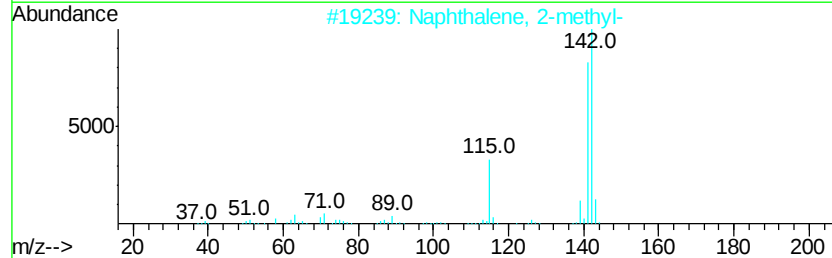
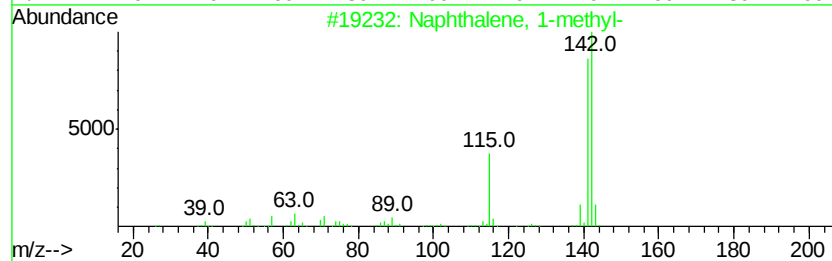
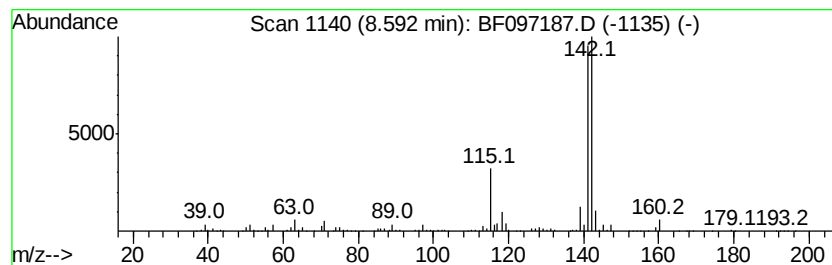
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Naphthalene, 1-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.59	40.92 ng	2212540	Naphthalene-d8	7.77

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
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Sample : I4421-13 5X
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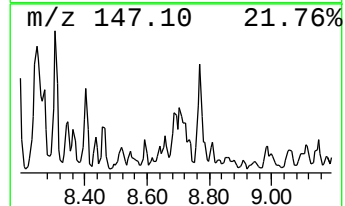
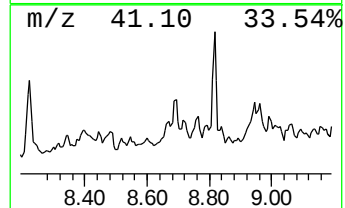
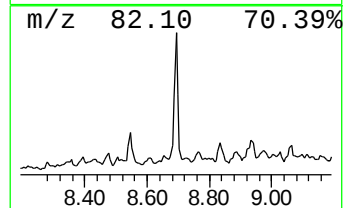
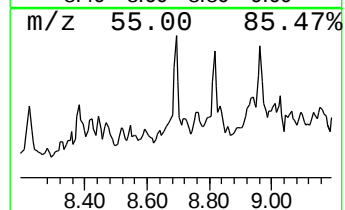
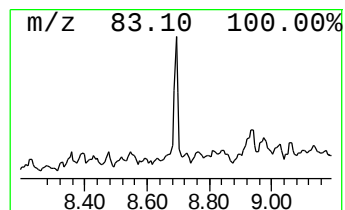
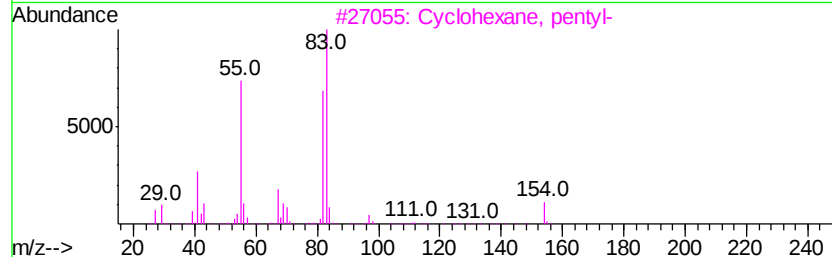
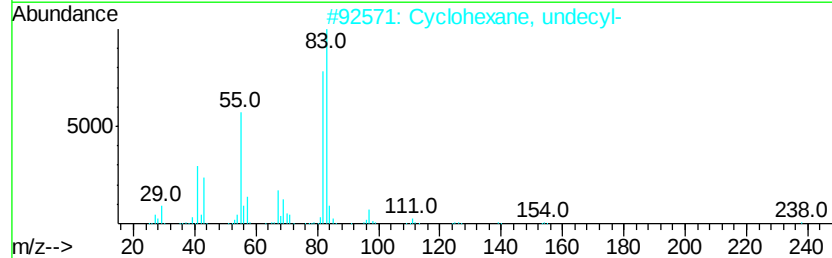
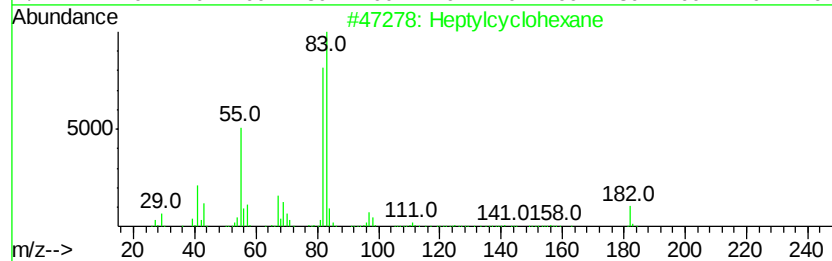
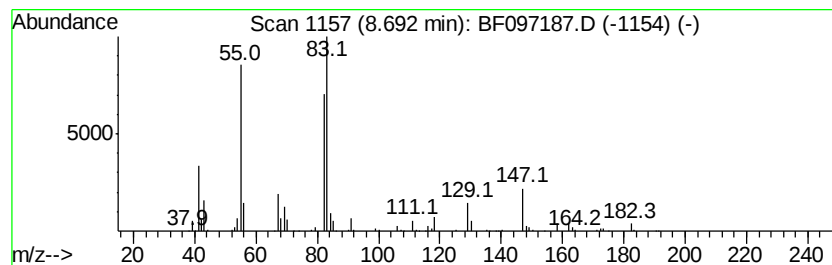
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Heptylcyclohexane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.	
8.69	15.51 ng	557615	Acenaphthene-d10	9.52	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptylcyclohexane	182	C13H26	005617-41-4	72
2	Cyclohexane, undecyl-	238	C17H34	054105-66-7	64
3	Cyclohexane, pentyl-	154	C11H22	004292-92-6	64
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	64
5	Cyclohexane, butyl-	140	C10H20	001678-93-9	64



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072817\
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ClientSampleId :
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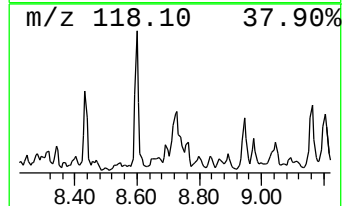
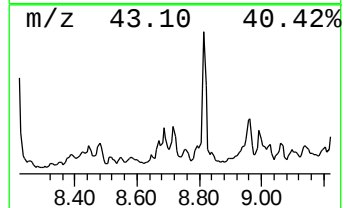
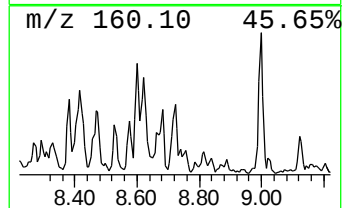
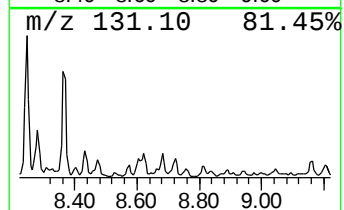
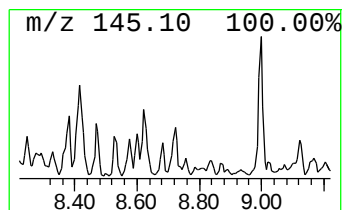
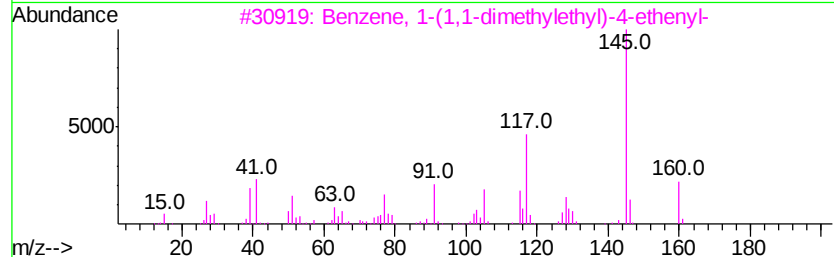
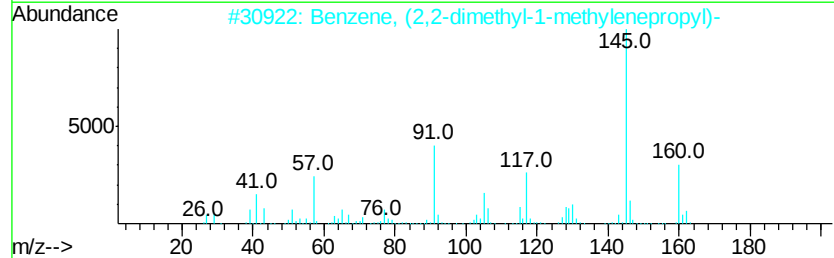
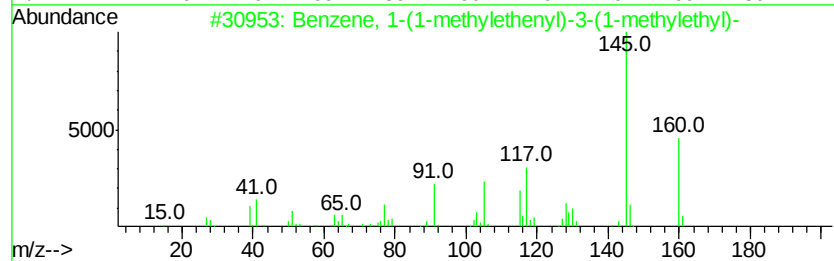
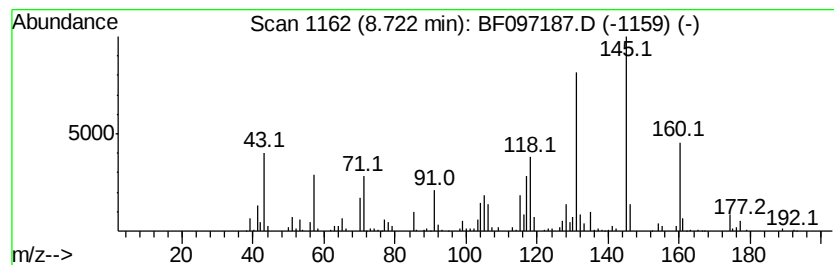
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Benzene, 1-(1-methylethenyl)... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.72	13.37 ng	480686	Acenaphthene-d10	9.52

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzene, 1-(1-methylethenyl)-3-(...	160	C12H16	001129-29-9	55
2		Benzene, (2,2-dimethyl-1-methyle...	160	C12H16	005676-29-9	55
3		Benzene, 1-(1,1-dimethylethyl)-4...	160	C12H16	001746-23-2	55
4		Benzene, 1-(1-methylethenyl)-4-(...	160	C12H16	002388-14-9	50
5		Naphthalene, 6-ethyl-1,2,3,4-tet...	160	C12H16	022531-20-0	49



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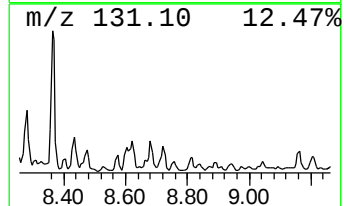
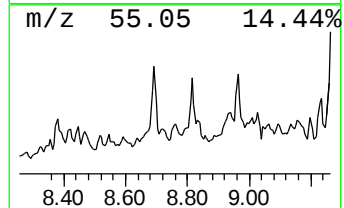
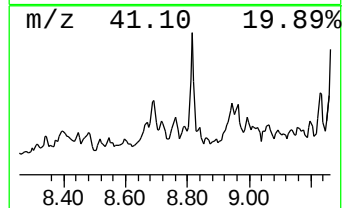
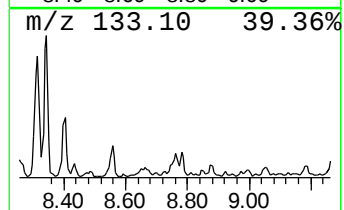
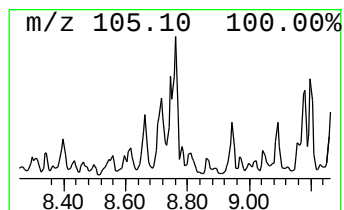
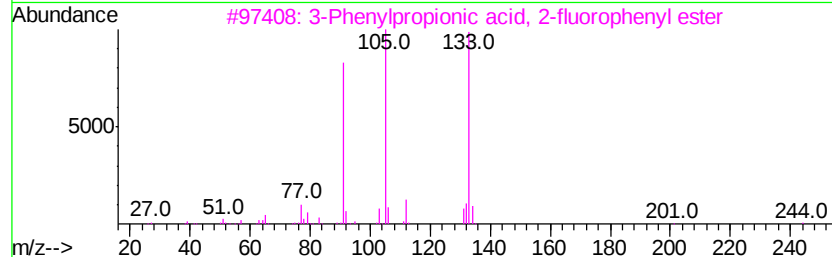
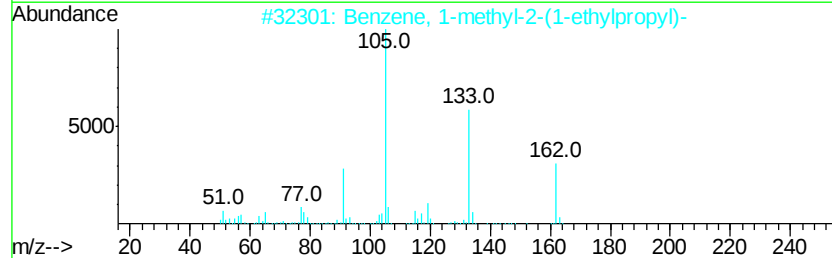
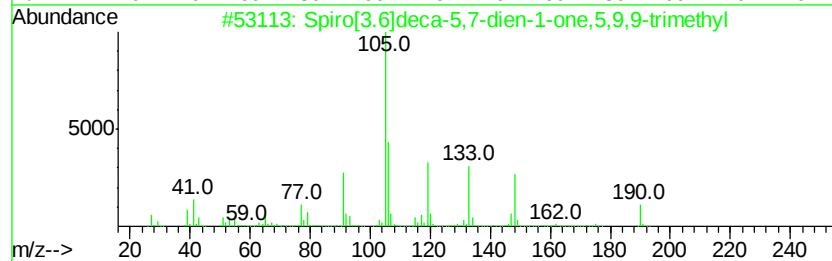
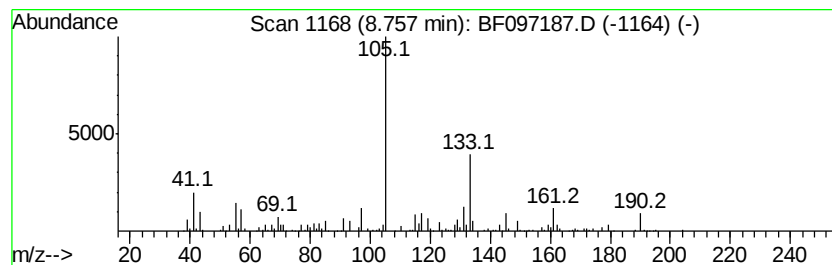
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Spiro[3.6]deca-5,7-dien-1-o... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	14.73 ng	529454	Acenaphthene-d10	9.52

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Spiro[3.6]deca-5,7-dien-1-one,5,...	190	C13H18O	081532-19-6	53
2		Benzene, 1-methyl-2-(1-ethylprop...	162	C12H18	054410-74-1	38
3		3-Phenylpropionic acid, 2-fluoro...	244	C15H13F02	1000325-75-9	23
4		3-Phenylpropionic acid, 2,4,6-tr...	328	C15H11Cl3O2	1000325-76-3	23
5		3-Phenylpropionic acid, 2,3-dich...	294	C15H12Cl2O2	1000331-06-3	17



Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
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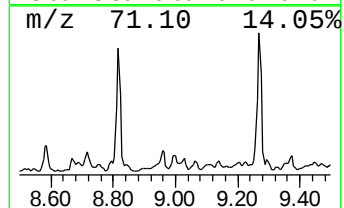
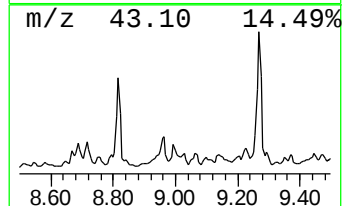
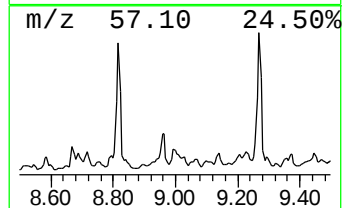
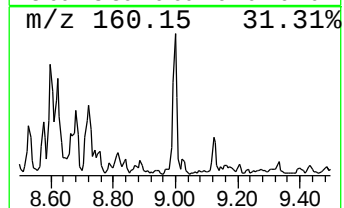
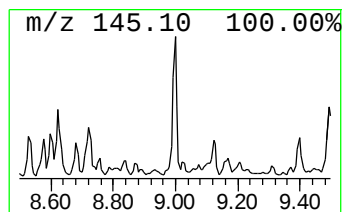
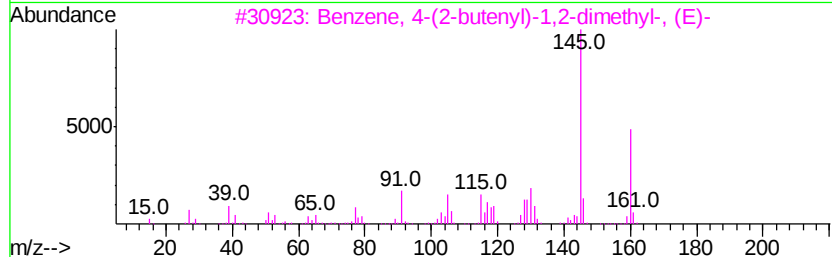
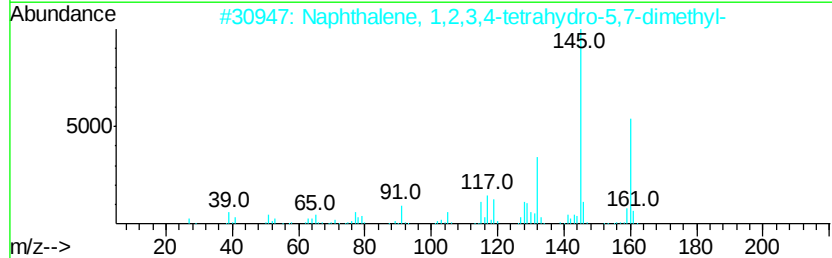
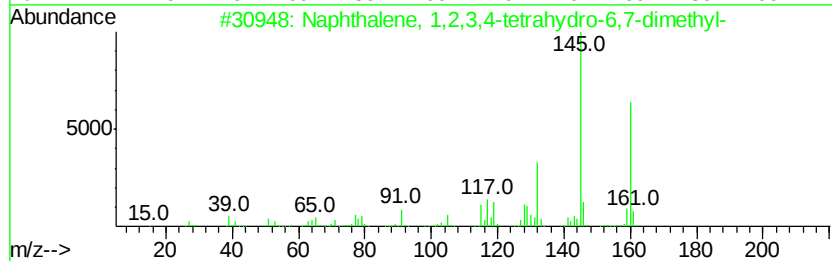
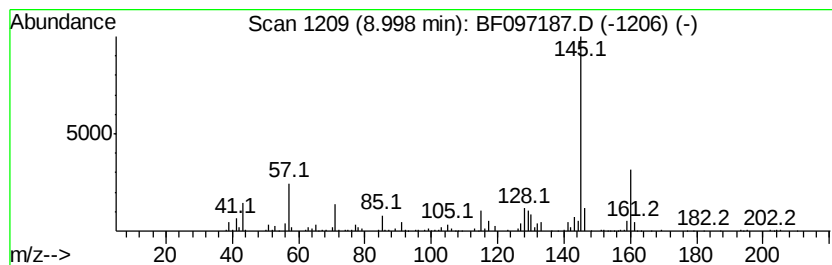
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Naphthalene, 1,2,3,4-tetra... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.00	14.28 ng	513356	Acenaphthene-d10	9.52

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	001076-61-5	94
2		Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	021693-54-9	94
3		Benzene, 4-(2-butenyl)-1,2-dimet...	160	C12H16	054340-86-2	91
4		1H-Indene, 2,3-dihydro-4,5,7-tri...	160	C12H16	006682-06-0	91
5		Benzene, 1-(2-butenyl)-2,3-dimet...	160	C12H16	054340-85-1	91



Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
Data File : BF097187.D
Acq On : 29 Jul 2017 7:15
Operator : SJ/JU
Sample : I4421-13 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
E2-N7-SSW

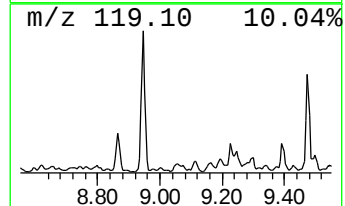
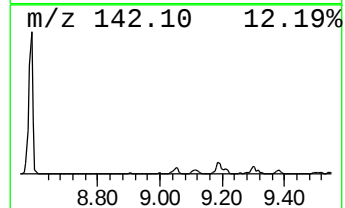
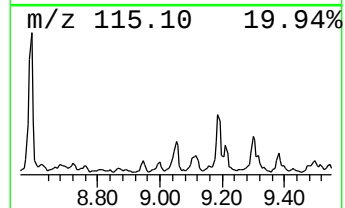
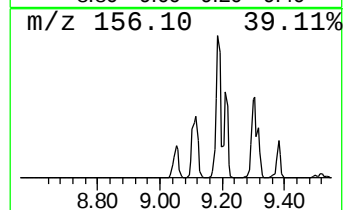
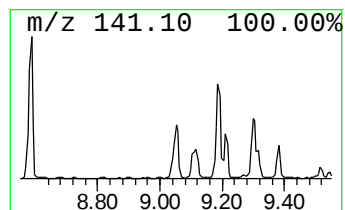
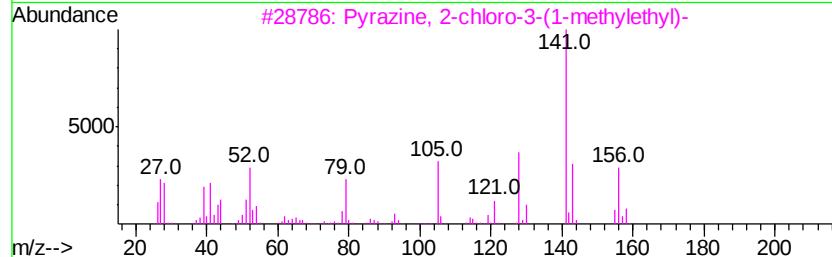
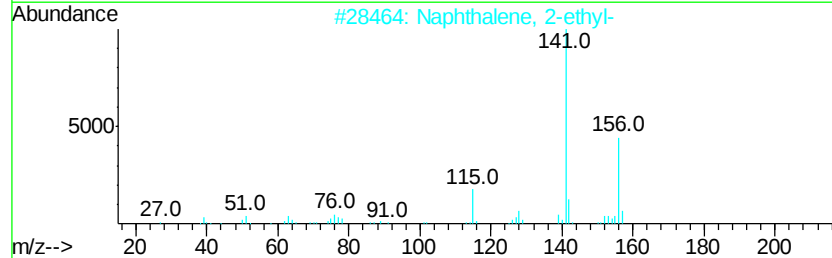
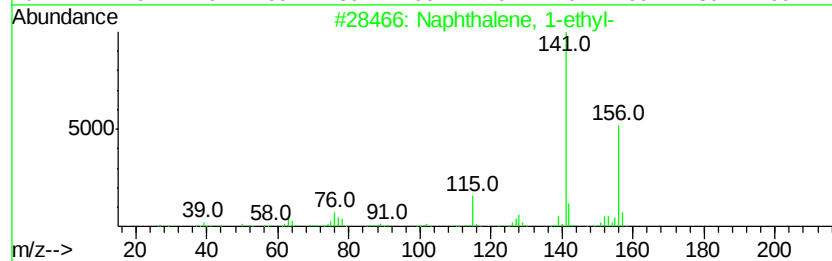
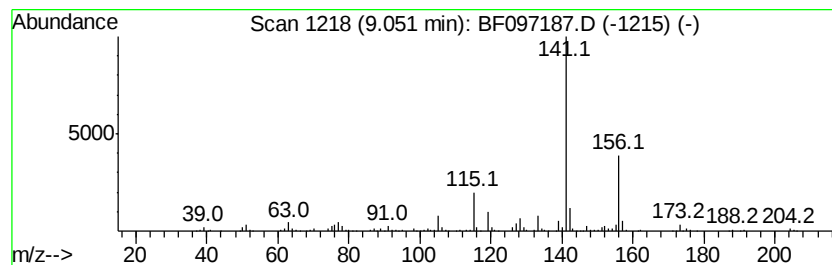
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Naphthalene, 1-ethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.05	24.08 ng	865410	Acenaphthene-d10	9.52

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	93
2		Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	93
3		Pvrazine, 2-chloro-3-(1-methylethyl)-	156	C7H9ClN2	057674-20-1	59
4		2-Amino-4-tertbutylthiazole	156	C7H12N2S	074370-93-7	53
5		2-Thiophenecarboxylic acid, 5-ethyl-	156	C7H8O2S	023229-72-3	53



Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
Data File : BF097187.D
Acq On : 29 Jul 2017 7:15
Operator : SJ/JU
Sample : I4421-13 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
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ClientSampleId :
E2-N7-SSW

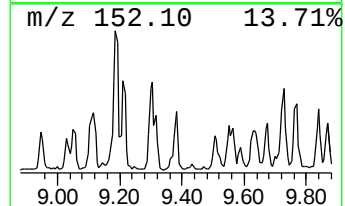
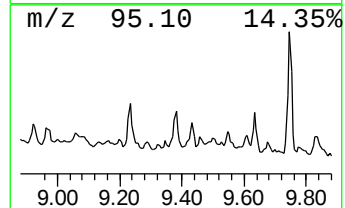
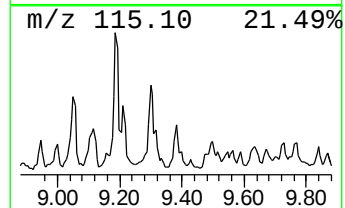
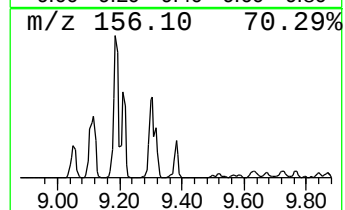
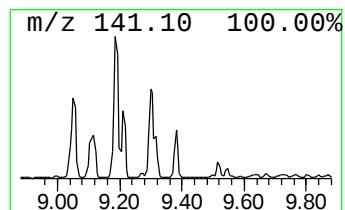
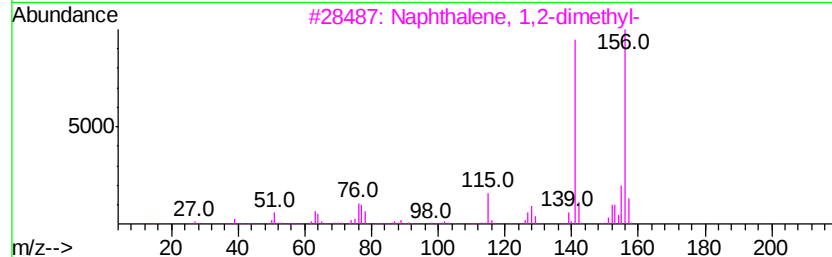
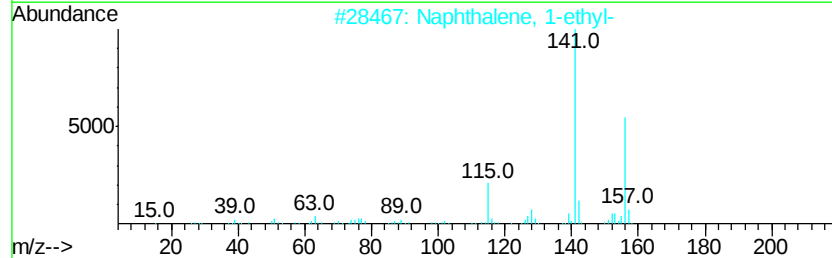
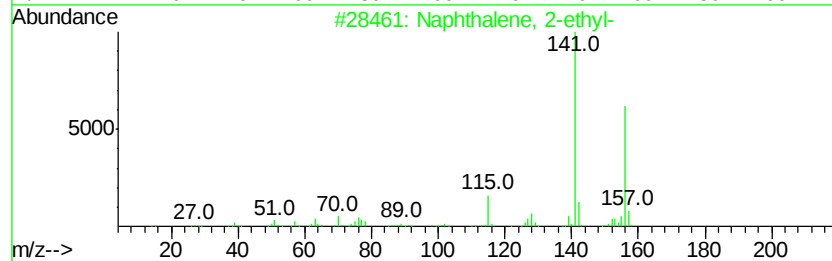
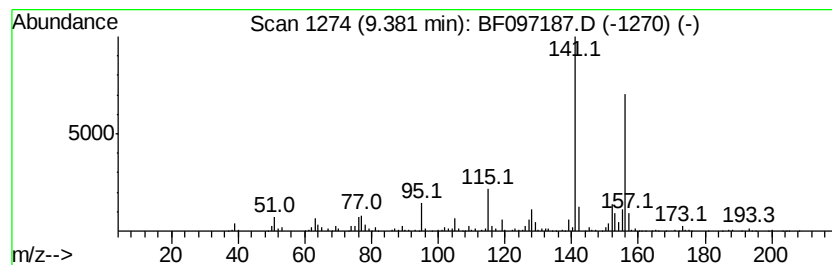
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Naphthalene, 2-ethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.38	24.15 ng	867988	Acenaphthene-d10	9.52

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	95
2		Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	94
3		Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	93
4		Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	93
5		Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	87



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072817\
Data File : BF097187.D
Acq On : 29 Jul 2017 7:15
Operator : SJ/JU
Sample : I4421-13 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
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ClientSampleId :
E2-N7-SSW

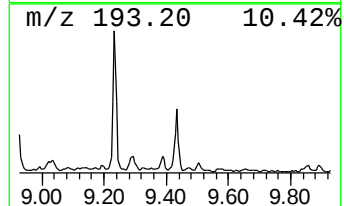
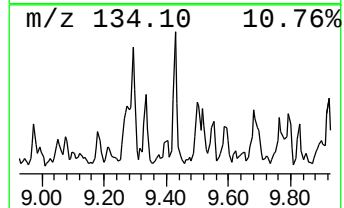
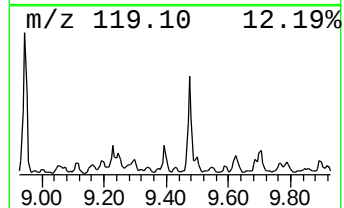
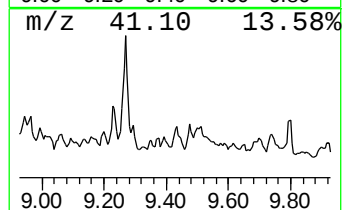
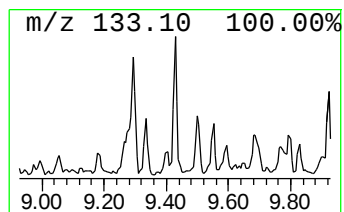
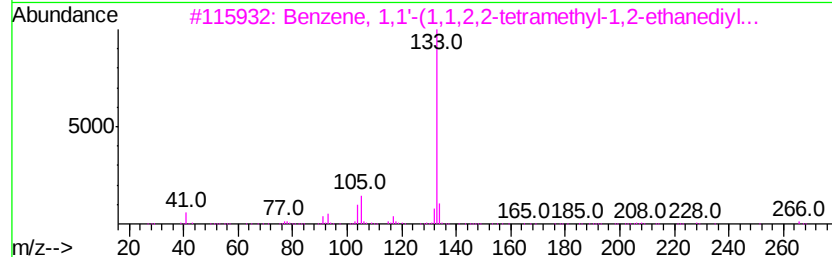
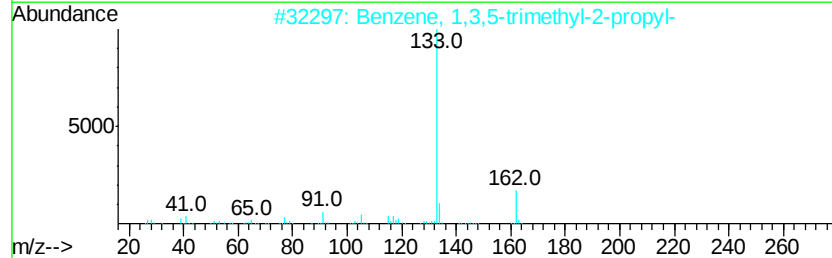
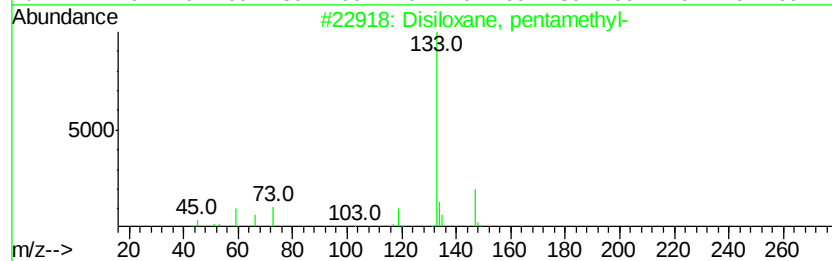
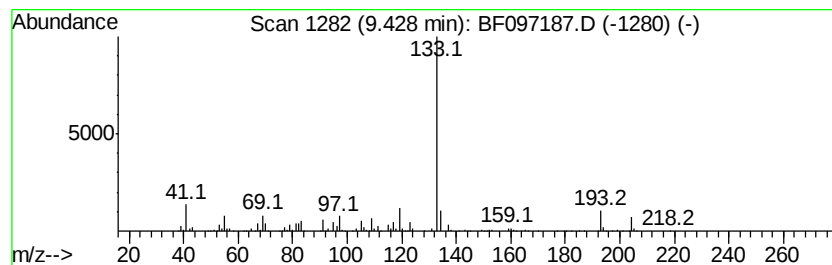
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Disiloxane, pentamethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.43	12.98 ng	466382	Acenaphthene-d10	9.52

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Disiloxane, pentamethyl-	148	C5H16OSi2	001438-82-0	59
2		Benzene, 1,3,5-trimethyl-2-propyl-	162	C12H18	004810-04-2	53
3		Benzene, 1,1'-(1,1,2,2-tetrameth...	266	C20H26	000734-17-8	42
4		4-Ethylbenzoic acid, tridec-2-yn...	328	C22H32O2	1000292-54-9	40
5		4-Ethylbenzoic acid, oct-3-en-2-...	260	C17H24O2	1000292-54-4	40



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072817\
Data File : BF097187.D
Acq On : 29 Jul 2017 7:15
Operator : SJ/JU
Sample : I4421-13 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

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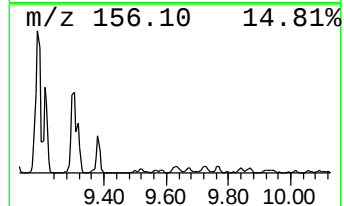
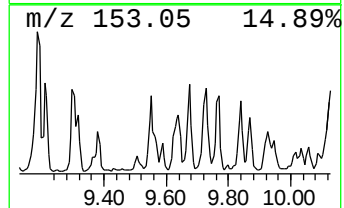
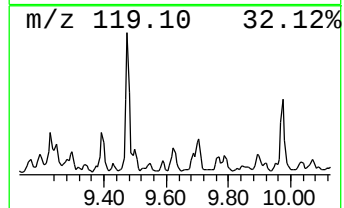
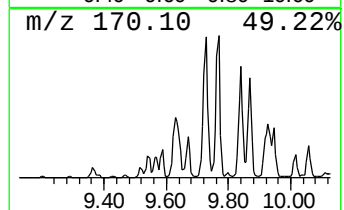
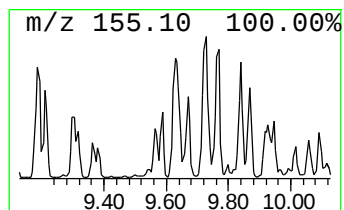
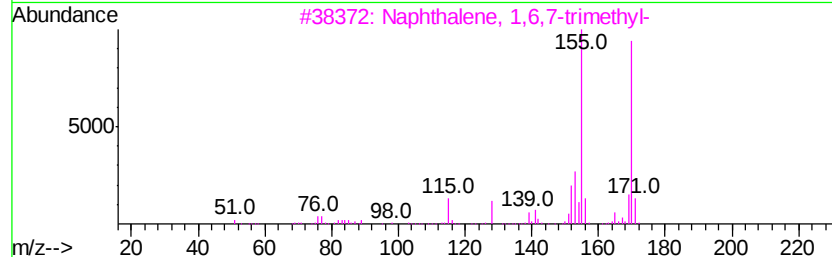
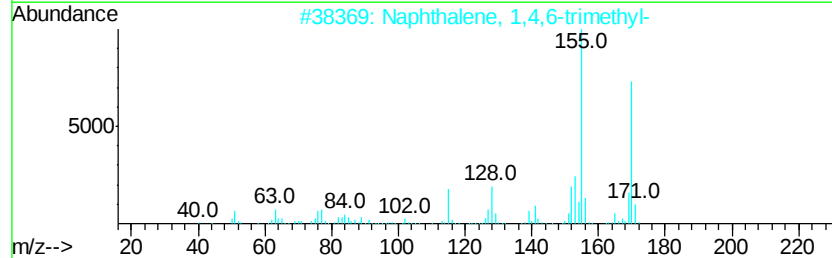
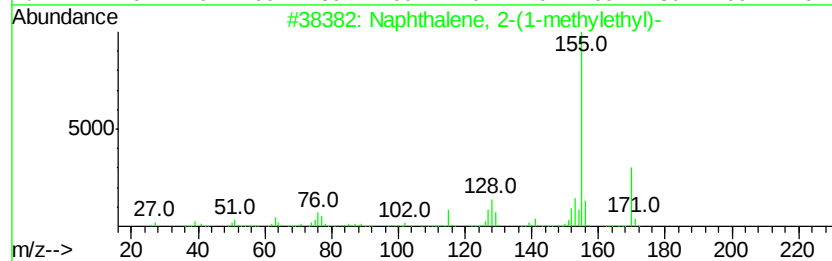
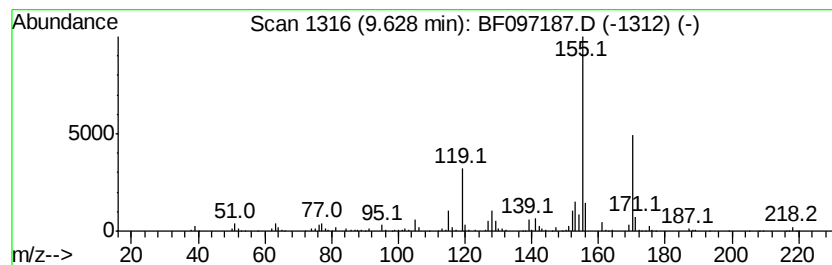
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Naphthalene, 2-(1-methyleth... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.63	19.42 ng	697994	Acenaphthene-d10	9.52

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-(1-methylethyl)-	170	C13H14	002027-17-0	87
2		Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	83
3		Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	83
4		4a,8a-Methanonaphthalene, 9,9-di...	170	C13H14	038963-97-2	80
5		Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	78



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072817\
Data File : BF097187.D
Acq On : 29 Jul 2017 7:15
Operator : SJ/JU
Sample : I4421-13 5X
Misc :
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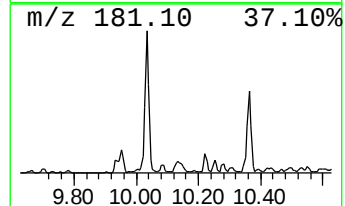
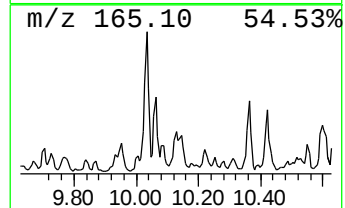
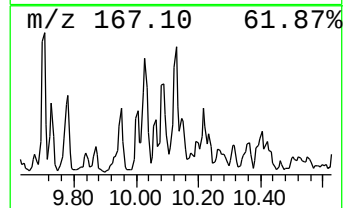
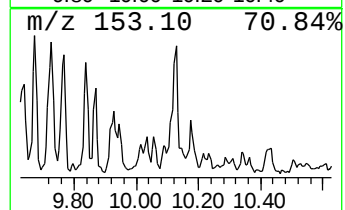
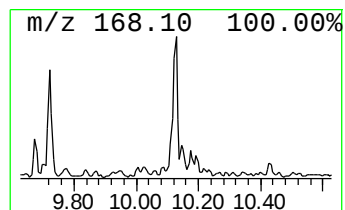
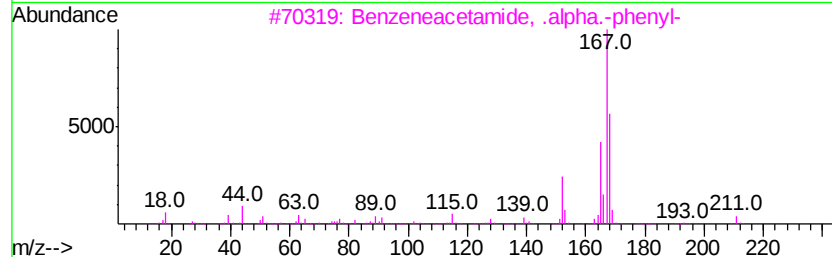
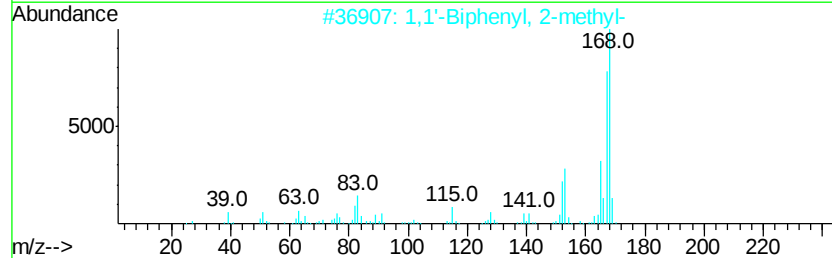
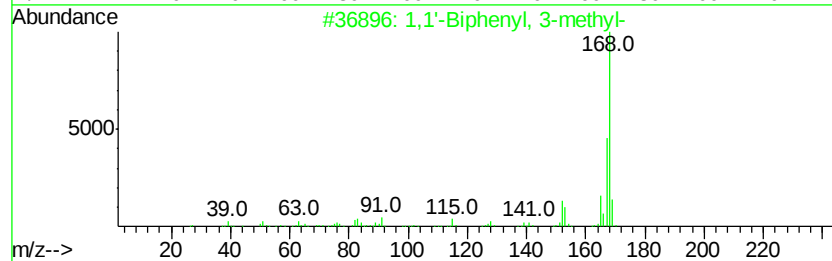
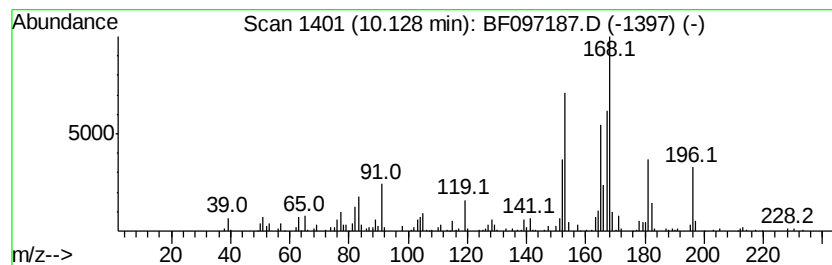
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 1,1'-Biphenyl, 3-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.13	11.29 ng	405908	Acenaphthene-d10	9.52	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	55
2	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	55
3	Benzeneacetamide, .alpha.-phenyl-	211	C14H13NO	004695-13-0	49
4	Benzene, 1,1'-propylidenebis-	196	C15H16	001530-03-6	42
5	Diphenylmethane	168	C13H12	000101-81-5	38



Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
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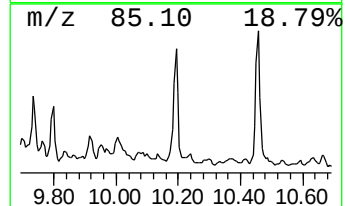
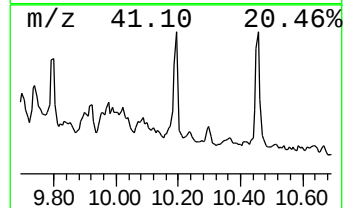
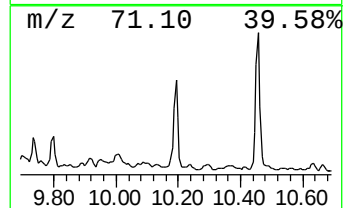
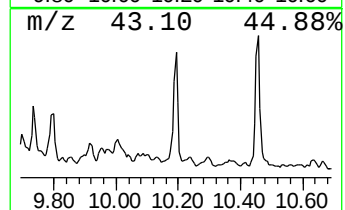
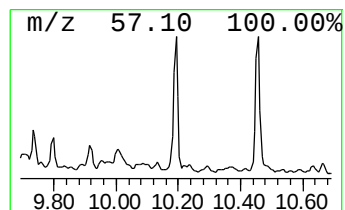
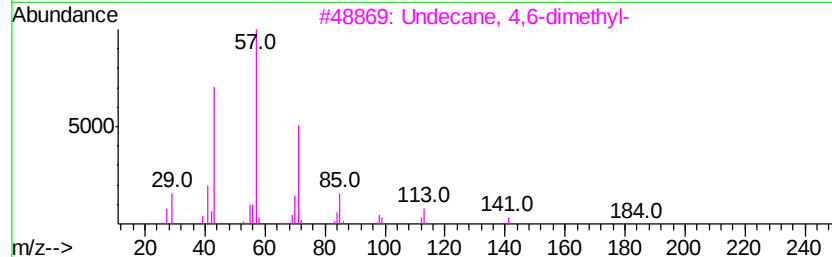
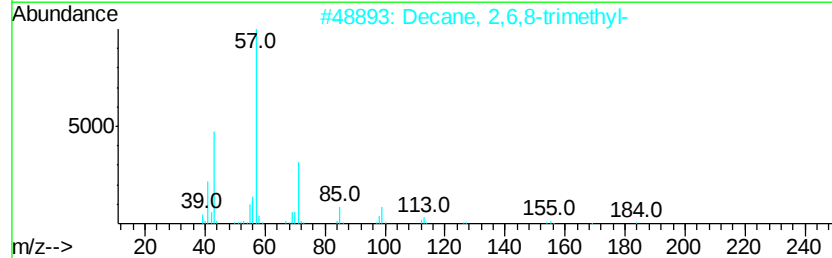
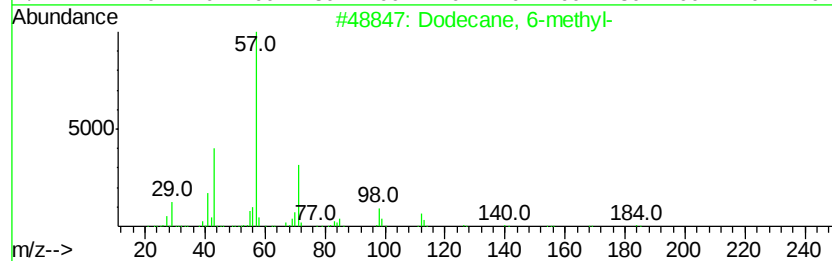
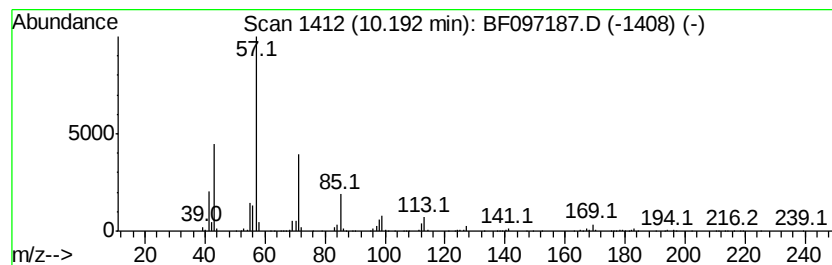
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ClientSampleId :
E2-N7-SSW

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 16 Dodecane, 6-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.19	16.63 ng	597676	Acenaphthene-d10	9.52
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Dodecane, 6-methyl-	184 C13H28	006044-71-9	72
2	Decane, 2,6,8-trimethyl-	184 C13H28	062108-26-3	72
3	Undecane, 4,6-dimethyl-	184 C13H28	017312-82-2	64
4	2-methyloctacosane	408 C29H60	1000376-72-8	59
5	Pentane, 2,2,3,3-tetramethyl-	128 C9H20	007154-79-2	59



Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
Data File : BF097187.D
Acq On : 29 Jul 2017 7:15
Operator : SJ/JU
Sample : I4421-13 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

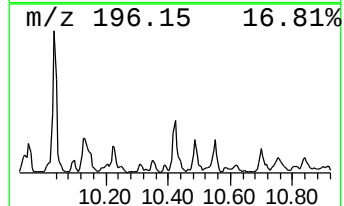
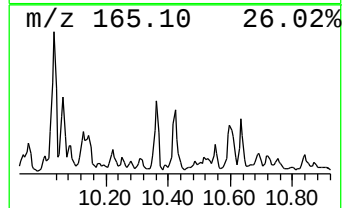
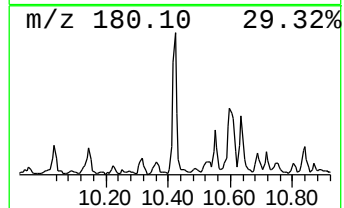
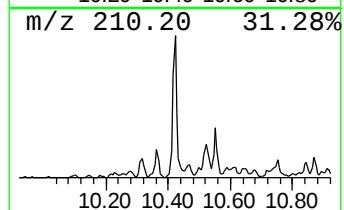
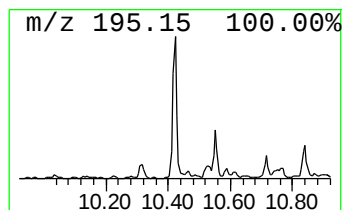
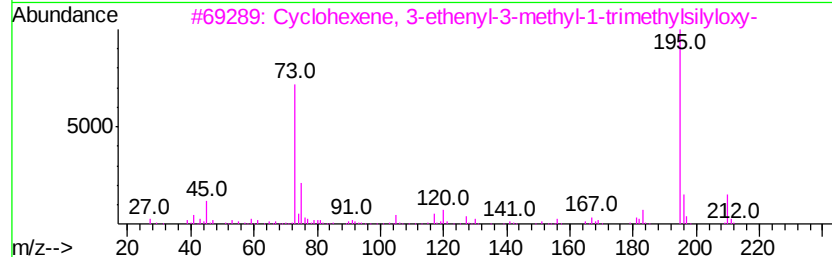
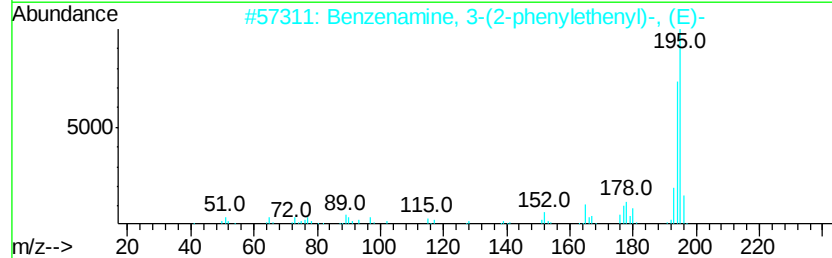
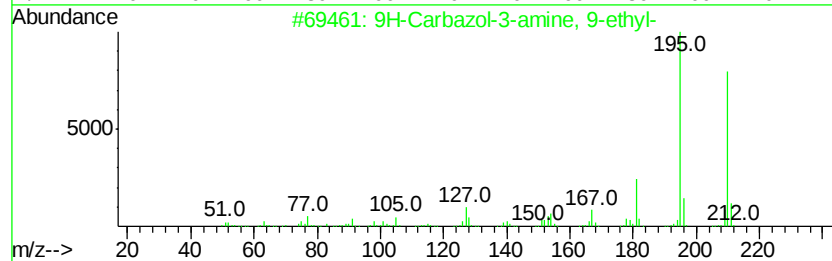
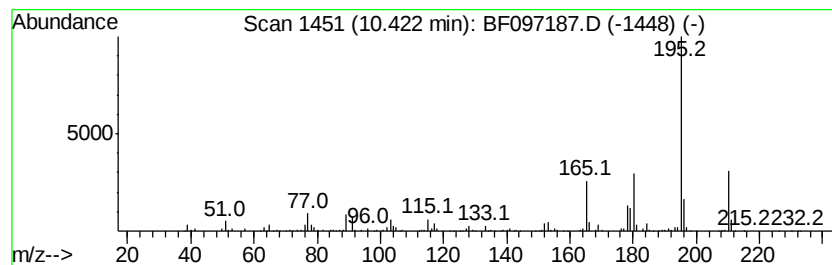
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 9H-Carbazol-3-amine, 9-ethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.42	17.11 ng	471925	Phenanthrene-d10	10.99	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Carbazol-3-amine, 9-ethyl-	210	C14H14N2	000132-32-1	53
2	Benzenamine, 3-(2-phenylethenyl)...	195	C14H13N	014064-82-5	50
3	Cvclohexene, 3-ethenyl-3-methyl-...	210	C12H22OSi	102308-02-1	47
4	Carbazole, 2,6-dimethyl-	195	C14H13N	078787-80-1	47
5	Cyanomethylbenzene, 2-fluoro-4,5...	195	C10H10FN02	091407-49-7	47



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072817\
Data File : BF097187.D
Acq On : 29 Jul 2017 7:15
Operator : SJ/JU
Sample : I4421-13 5X
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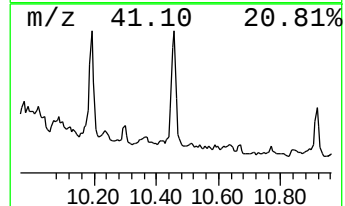
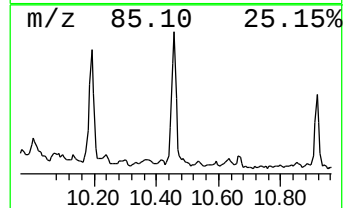
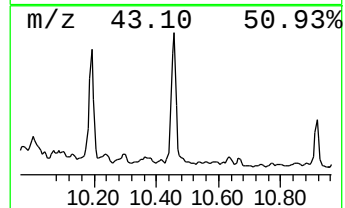
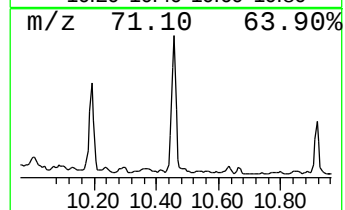
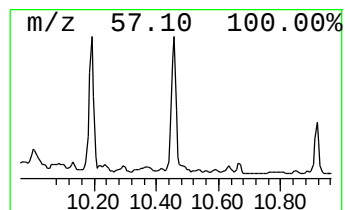
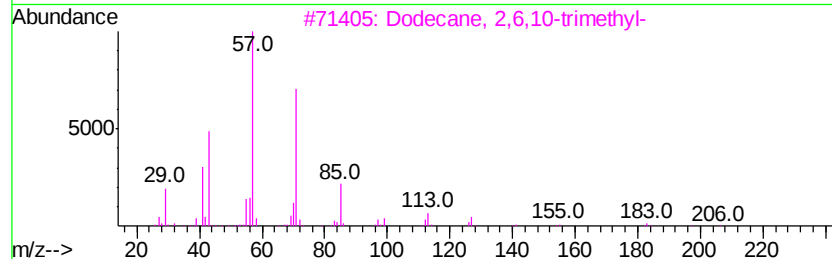
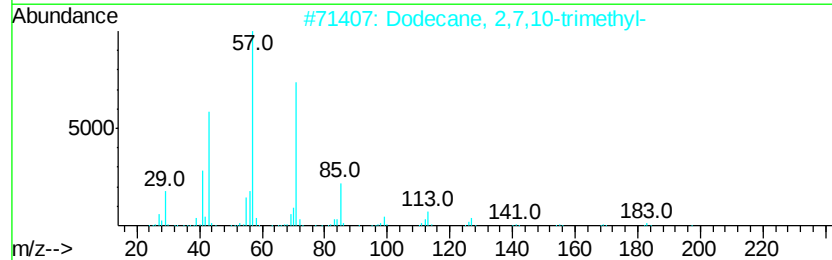
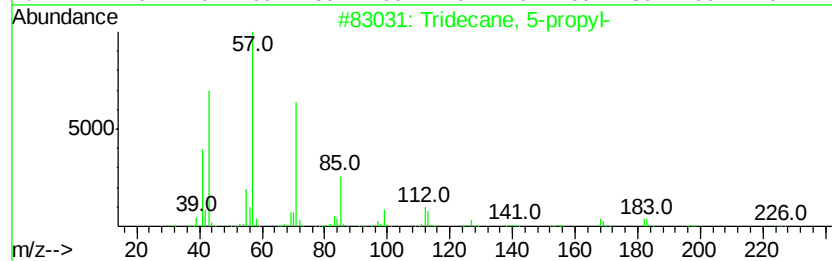
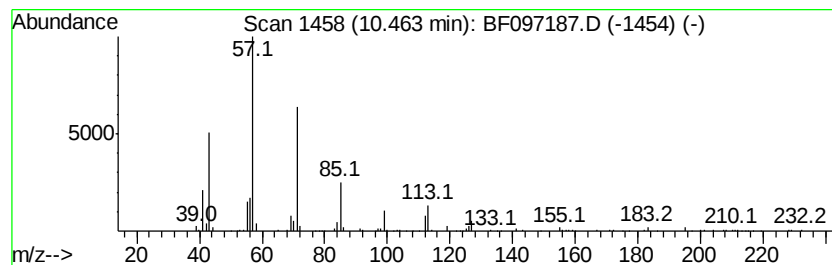
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Tridecane, 5-propyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.46	30.00 ng	827281	Phenanthrene-d10	10.99	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane, 5-propyl-	226	C16H34	055045-11-9	83
2	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	80
3	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	72
4	Sulfurous acid, 2-ethylhexyl und...	348	C19H40O3S	1000309-19-4	64
5	Undecane, 6-ethyl-	184	C13H28	017312-60-6	59



Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
Data File : BF097187.D
Acq On : 29 Jul 2017 7:15
Operator : SJ/JU
Sample : I4421-13 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
E2-N7-SSW

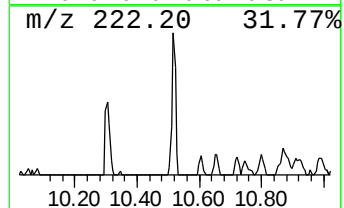
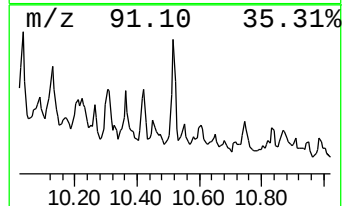
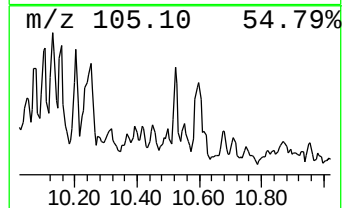
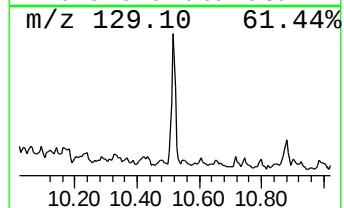
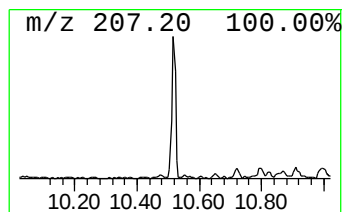
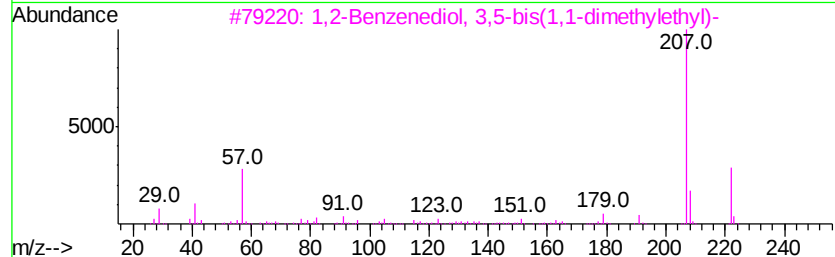
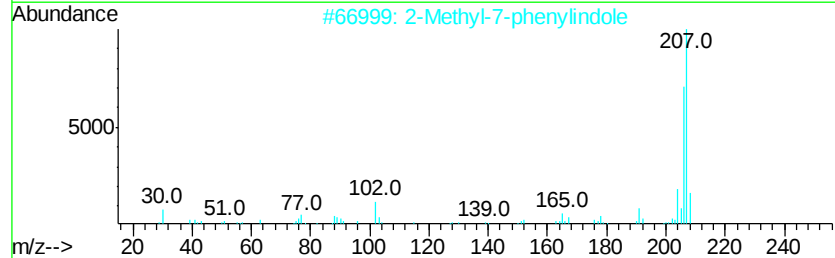
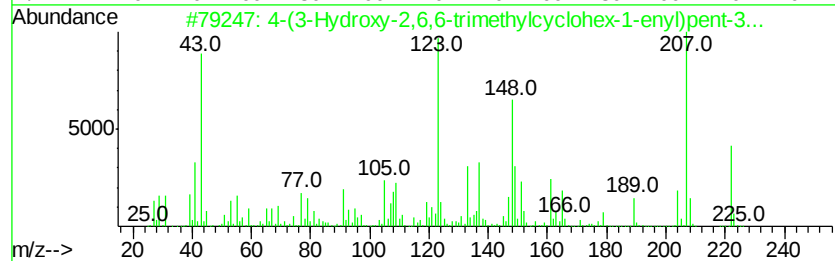
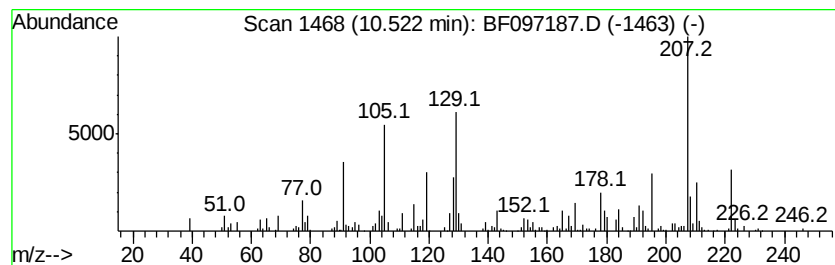
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 unknown10.52 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.52	11.27 ng	310791	Phenanthrene-d10	10.99

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4-(3-Hydroxy-2,6,6-trimethylcyclohex-1-en-1-yl)pent-3-en-2-one	222	C14H22O2	097306-57-5	42
2		2-Methyl-7-phenylindole	207	C15H13N	001140-08-5	38
3		1,2-Benzenediol, 3,5-bis(1,1-dimethylethyl)-	222	C14H22O2	001020-31-1	30
4		1-Methyl-3-phenylindole	207	C15H13N	030020-98-5	30
5		Thieno[2,3-c]furan-3-carbonitrile	222	C11H14N2OS	447412-24-0	27



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072817\
Data File : BF097187.D
Acq On : 29 Jul 2017 7:15
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Sample : I4421-13 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

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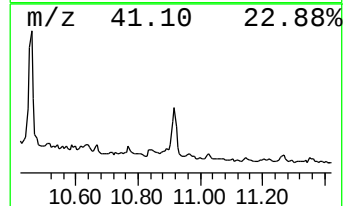
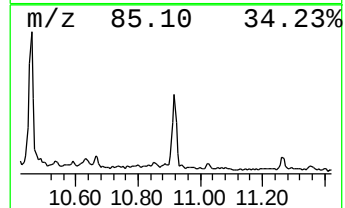
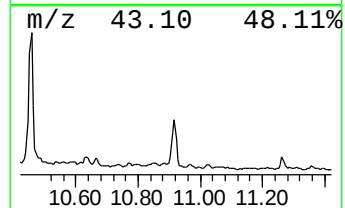
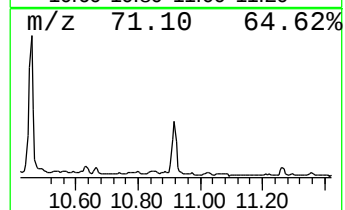
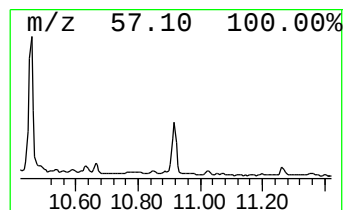
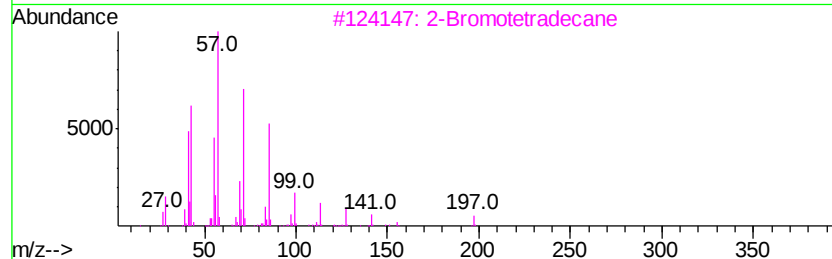
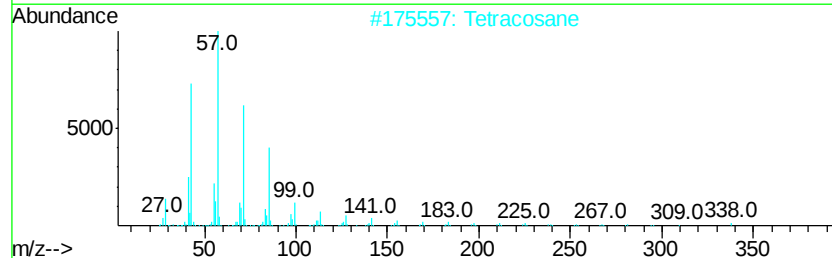
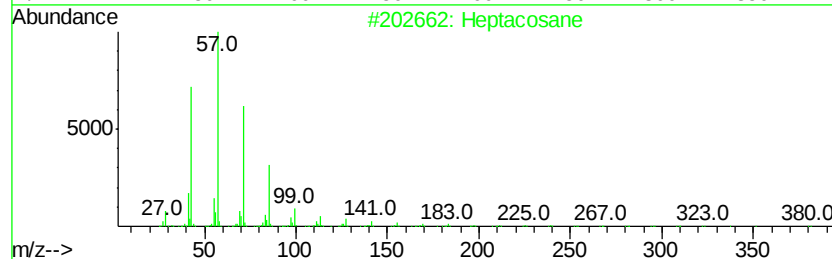
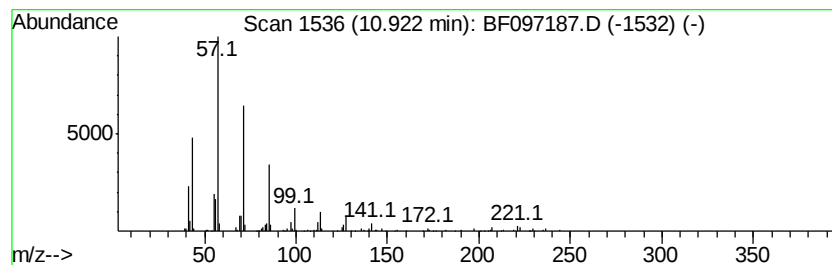
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Heptacosane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.92	14.89 ng	410746	Phenanthrene-d10	10.99

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Heptacosane	380	C27H56	000593-49-7	91
2		Tetracosane	338	C24H50	000646-31-1	86
3		2-Bromotetradecane	276	C14H29Br	074036-95-6	80
4		Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	80
5		Pentadecane, 7-methyl-	226	C16H34	006165-40-8	72



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072817\
 Data File : BF097187.D
 Acq On : 29 Jul 2017 7:15
 Operator : SJ/JU
 Sample : I4421-13 5X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Benzene, 1,3,5-tr...	7.96	12.1 ng		653138	2	7.77	1081400	20.0
Bicyclo[4.2.1]non...	8.06	21.4 ng		1155040	2	7.77	1081400	20.0
1H-Indene, 2,3-di...	8.16	26.9 ng		1455500	2	7.77	1081400	20.0
unknown8.22	8.22	19.0 ng		1026150	2	7.77	1081400	20.0
1H-Indene, 2,3-di...	8.25	11.0 ng		596381	2	7.77	1081400	20.0
Naphthalene, 1-me...	8.59	40.9 ng		2212540	2	7.77	1081400	20.0
Heptylcyclohexane	8.69	15.5 ng		557615	3	9.52	718867	20.0
Benzene, 1-(1-met...	8.72	13.4 ng		480686	3	9.52	718867	20.0
Spiro[3.6]deca-5,...	8.76	14.7 ng		529454	3	9.52	718867	20.0
Naphthalene, 1,2,...	9.00	14.3 ng		513356	3	9.52	718867	20.0
Naphthalene, 1-et...	9.05	24.1 ng		865410	3	9.52	718867	20.0
Naphthalene, 2-et...	9.38	24.1 ng		867988	3	9.52	718867	20.0
Disiloxane, penta...	9.43	13.0 ng		466382	3	9.52	718867	20.0
Naphthalene, 2-(1...	9.63	19.4 ng		697994	3	9.52	718867	20.0
1,1'-Biphenyl, 3-...	10.13	11.3 ng		405908	3	9.52	718867	20.0
Dodecane, 6-methyl-	10.19	16.6 ng		597676	3	9.52	718867	20.0
9H-Carbazol-3-ami...	10.42	17.1 ng		471925	4	10.99	551558	20.0
Tridecane, 5-propyl-	10.46	30.0 ng		827281	4	10.99	551558	20.0
unknown10.52	10.52	11.3 ng		310791	4	10.99	551558	20.0
Heptacosane	10.92	14.9 ng		410746	4	10.99	551558	20.0