

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\
 Data File : BF082315.D
 Acq On : 15 Oct 2015 18:02
 Operator : UM/IZ
 Sample : G4016-12 10X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-13

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-BF101015.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	6.823	408	410	412	rBV	546007	454077	9.61%	0.923%
2	8.115	521	523	524	rBV	796497	668371	14.14%	1.359%
3	8.835	583	586	588	rVV	64432	91328	1.93%	0.186%
4	8.926	592	594	597	rVB	116464	100027	2.12%	0.203%
5	9.189	615	617	620	rVB	147143	130471	2.76%	0.265%
6	9.463	638	641	643	rBV	64548	98247	2.08%	0.200%
7	9.532	645	647	648	rVV	131276	135985	2.88%	0.276%
8	9.555	648	649	651	rVV	86092	93569	1.98%	0.190%
9	9.646	654	657	662	rVB2	70311	99369	2.10%	0.202%
10	9.738	662	665	667	rBV	324734	400742	8.48%	0.815%
11	9.875	673	677	678	rBV	874193	836627	17.70%	1.701%
12	9.909	678	680	681	rVV	94754	117478	2.49%	0.239%
13	10.081	692	695	697	rBV	265557	319087	6.75%	0.649%
14	10.183	702	704	706	rBV	74153	98963	2.09%	0.201%
15	10.275	710	712	715	rBV2	66518	126660	2.68%	0.257%
16	10.423	723	725	728	rVB	323464	371418	7.86%	0.755%
17	10.572	737	738	740	rVV	113150	145941	3.09%	0.297%
18	10.663	743	746	752	rVB2	227974	446180	9.44%	0.907%
19	10.778	752	756	760	rVB2	104188	180551	3.82%	0.367%
20	10.972	770	773	777	rBV3	115014	260277	5.51%	0.529%
21	11.098	782	784	785	rVV	136724	132666	2.81%	0.270%
22	11.166	789	790	792	rVV	539534	692297	14.65%	1.407%
23	11.212	792	794	796	rVV	113332	153337	3.24%	0.312%
24	11.258	796	798	801	rVB	367394	374215	7.92%	0.761%
25	11.395	805	810	812	rBV2	3387623	4725541	100.00%	9.605%
26	11.441	812	814	820	rVV	986815	1062467	22.48%	2.160%
27	11.544	820	823	825	rVB2	101249	122284	2.59%	0.249%
28	11.601	825	828	832	rBV2	590984	781561	16.54%	1.589%
29	11.658	832	833	835	rVV2	98828	105882	2.24%	0.215%
30	11.704	835	837	839	rVV2	183314	241304	5.11%	0.490%
31	11.772	839	843	846	rVB2	82505	204302	4.32%	0.415%
32	11.818	846	847	849	rBV	82865	96281	2.04%	0.196%
33	11.864	849	851	853	rBV	520341	736972	15.60%	1.498%
34	11.898	853	854	856	rVV	919030	692800	14.66%	1.408%

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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101015.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.944	856	858	859	rVV	241467	205389	4.35%	0.417%
36	11.978	859	861	866	rVB2	653035	1030391	21.80%	2.094%
37	12.046	866	867	869	rBV2	84828	154331	3.27%	0.314%
38	12.081	869	870	873	rVB2	77695	121428	2.57%	0.247%
39	12.161	876	877	879	rVV	298437	393479	8.33%	0.800%
40	12.195	879	880	882	rVB	451331	341794	7.23%	0.695%
41	12.309	887	890	892	rVV2	110478	234848	4.97%	0.477%
42	12.344	892	893	894	rVV	195667	166909	3.53%	0.339%
43	12.424	897	900	901	rVV	245406	399974	8.46%	0.813%
44	12.447	901	902	906	rVV3	163233	371427	7.86%	0.755%
45	12.515	906	908	910	rVV	422612	549476	11.63%	1.117%
46	12.595	911	915	917	rVV	3230777	3798408	80.38%	7.721%
47	12.629	917	918	921	rVV2	124906	257402	5.45%	0.523%
48	12.675	921	922	924	rVV	214019	265341	5.62%	0.539%
49	12.732	924	927	929	rVV2	176324	342590	7.25%	0.696%
50	12.778	929	931	932	rVV2	146840	179125	3.79%	0.364%
51	12.824	932	935	937	rVV	2457940	3087406	65.33%	6.275%
52	12.869	937	939	941	rVB2	189832	270040	5.71%	0.549%
53	12.938	942	945	946	rBV	211038	238821	5.05%	0.485%
54	12.972	946	948	951	rVB2	181112	362899	7.68%	0.738%
55	13.041	951	954	956	rBV2	263634	471559	9.98%	0.958%
56	13.132	960	962	965	rVB3	230359	509803	10.79%	1.036%
57	13.201	965	968	969	rBV2	44248	85109	1.80%	0.173%
58	13.258	971	973	977	rVB	348989	438128	9.27%	0.891%
59	13.361	980	982	983	rVB	130328	139659	2.96%	0.284%
60	13.395	983	985	989	rBV3	110878	217941	4.61%	0.443%
61	13.567	997	1000	1001	rBV2	65099	119976	2.54%	0.244%
62	13.692	1009	1011	1013	rBV	615517	628698	13.30%	1.278%
63	13.807	1018	1021	1023	rBV	449984	608833	12.88%	1.238%
64	13.841	1023	1024	1025	rVV	214128	204189	4.32%	0.415%
65	13.864	1025	1026	1029	rVV2	329323	480918	10.18%	0.978%
66	13.921	1029	1031	1033	rVB	495664	523161	11.07%	1.063%
67	13.990	1035	1037	1041	rVB2	72481	127309	2.69%	0.259%
68	14.081	1041	1045	1047	rBV2	1621187	2959885	62.64%	6.016%
69	14.115	1047	1048	1052	rVB	1258853	1279317	27.07%	2.600%
70	14.241	1057	1059	1063	rVV2	181737	400512	8.48%	0.814%
71	14.344	1067	1068	1069	rVV	156404	117831	2.49%	0.240%

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Sampling : 1 Min Area: 3 % of largest Peak
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72	14.378	1069	1071	1074	rVB2	96420	196077	4.15%	0.399%
73	14.470	1074	1079	1080	rBV3	96889	193014	4.08%	0.392%
74	14.515	1081	1083	1085	rVB	324312	367327	7.77%	0.747%
75	14.550	1085	1086	1089	rBV2	118165	182917	3.87%	0.372%
76	14.652	1094	1095	1097	rBV	87692	107699	2.28%	0.219%
77	14.744	1102	1103	1106	rVB2	98493	107897	2.28%	0.219%
78	14.961	1120	1122	1123	rBV	48771	91406	1.93%	0.186%
79	15.053	1128	1130	1136	rVV2	137267	305385	6.46%	0.621%
80	15.144	1136	1138	1140	rVV2	75663	134706	2.85%	0.274%
81	15.235	1143	1146	1151	rBV	1204052	2709329	57.33%	5.507%
82	15.338	1153	1155	1157	rVV	280205	314563	6.66%	0.639%
83	15.441	1161	1164	1167	rBV2	62451	192843	4.08%	0.392%
84	15.533	1169	1172	1175	rVV	651555	972305	20.58%	1.976%
85	15.601	1175	1178	1181	rVV	954011	1208865	25.58%	2.457%
86	15.658	1181	1183	1184	rVV	456307	550426	11.65%	1.119%
87	15.693	1184	1186	1191	rVB2	262690	481018	10.18%	0.978%
88	15.967	1205	1210	1212	rBV2	69798	181783	3.85%	0.369%
89	16.333	1240	1242	1246	rVB4	70163	164260	3.48%	0.334%
90	16.573	1260	1263	1266	rVB3	47976	103709	2.19%	0.211%
91	16.676	1269	1272	1275	rBV4	47998	106163	2.25%	0.216%
92	16.778	1275	1281	1289	rVB7	102889	526019	11.13%	1.069%
93	16.916	1290	1293	1295	rBV2	65078	161126	3.41%	0.328%
94	17.110	1306	1310	1314	rBV2	389975	769613	16.29%	1.564%
95	17.281	1321	1325	1327	rBV	97330	236119	5.00%	0.480%
96	17.338	1327	1330	1332	rVV	99576	236128	5.00%	0.480%
97	17.396	1332	1335	1341	rVV4	66328	208820	4.42%	0.424%
98	17.544	1344	1348	1356	rVB	277152	567918	12.02%	1.154%
99	17.773	1365	1368	1375	rVB2	55270	161965	3.43%	0.329%
100	19.739	1536	1540	1549	rVB2	68664	277525	5.87%	0.564%

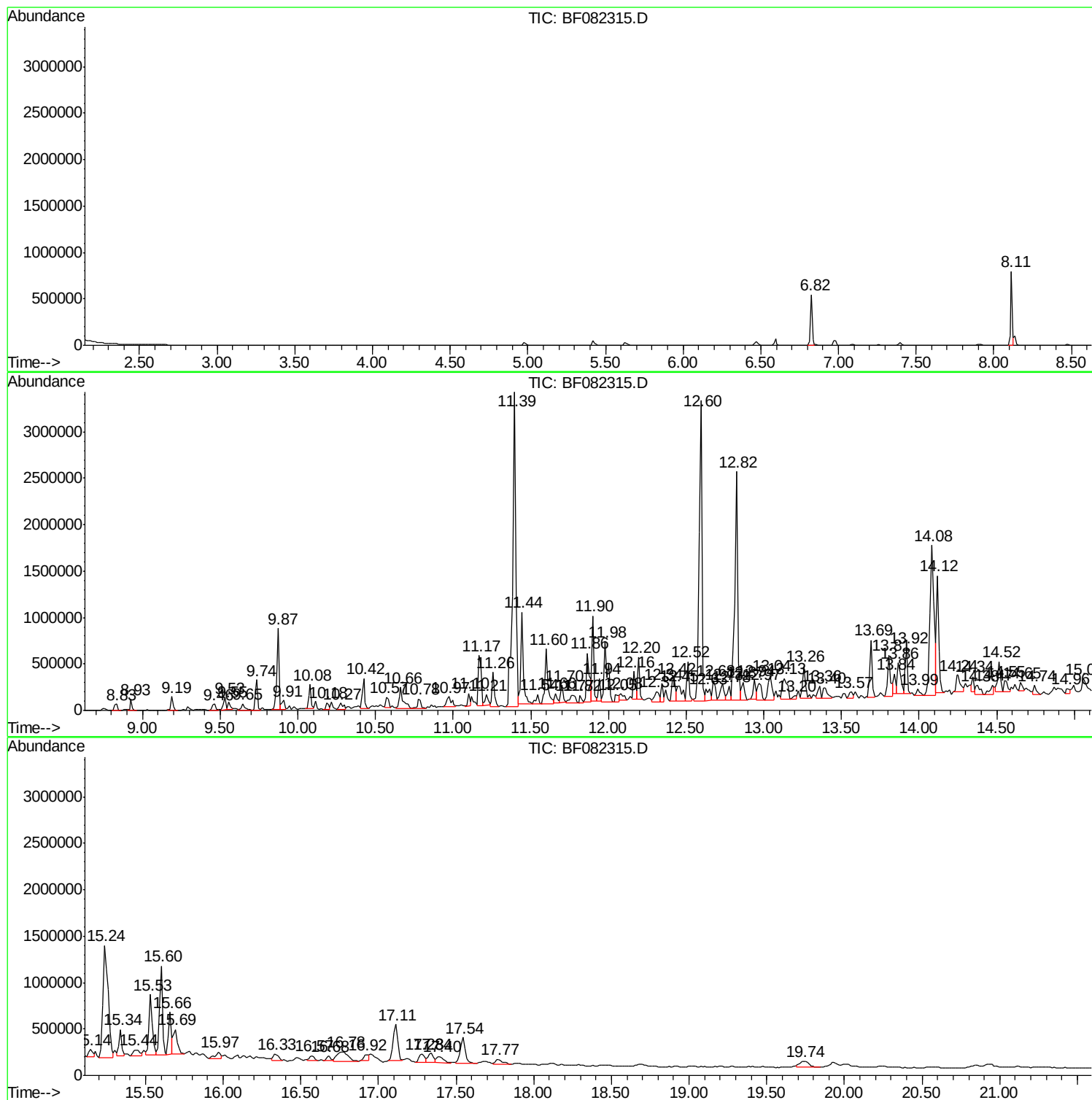
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Instrument :
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ClientSampled :
CS-13

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



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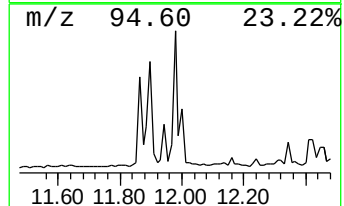
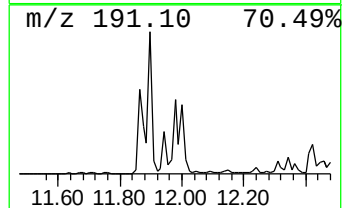
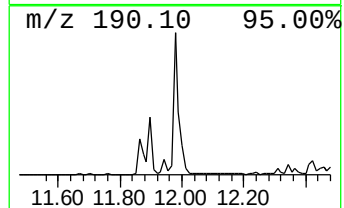
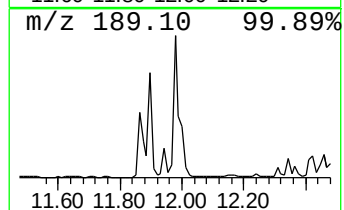
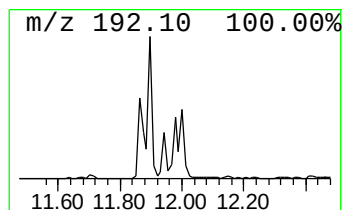
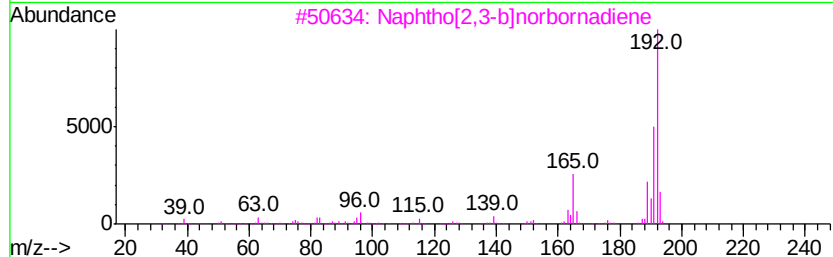
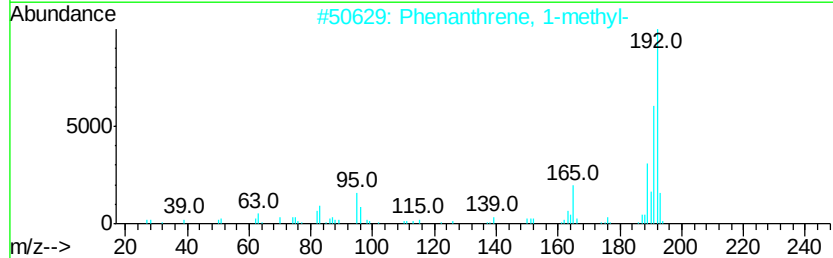
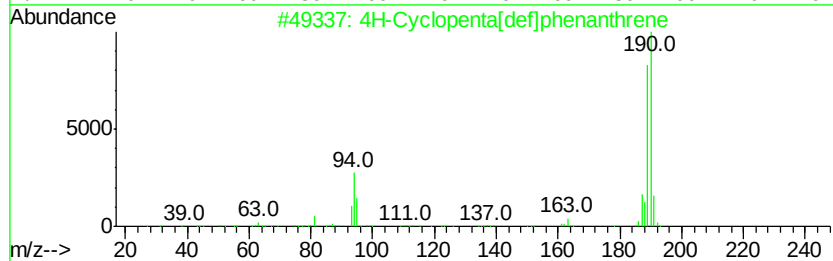
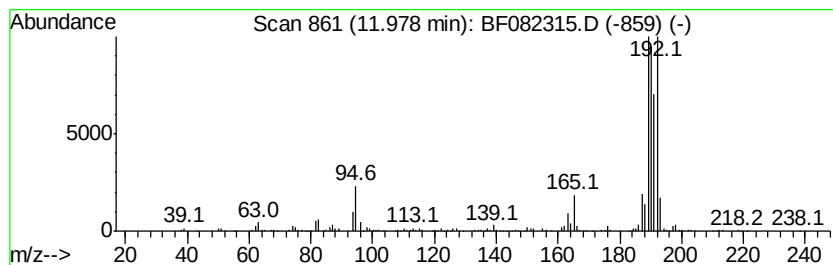
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 4H-Cyclopenta[def]phenanthrene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	4.36 ng	1030390	Phenanthrene-d10	11.36

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
2		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	46
3		Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	42
4		1a,9b-Dihydro-1H-cyclopropa[alan...	192	C15H12	006109-24-6	42
5		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	42



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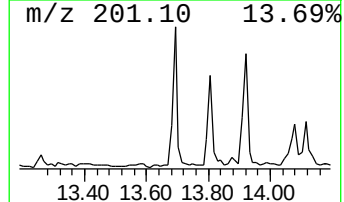
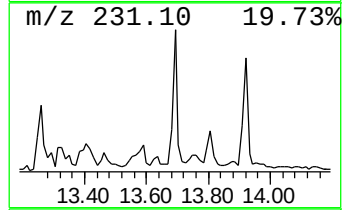
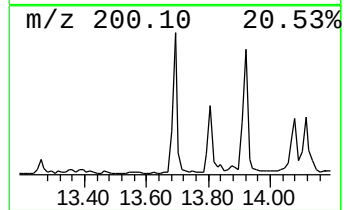
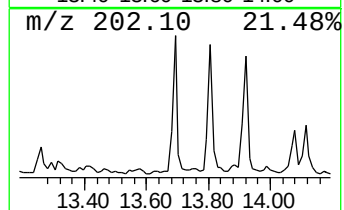
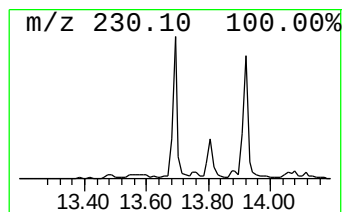
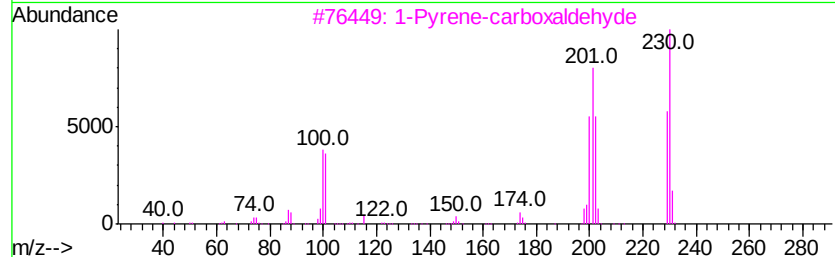
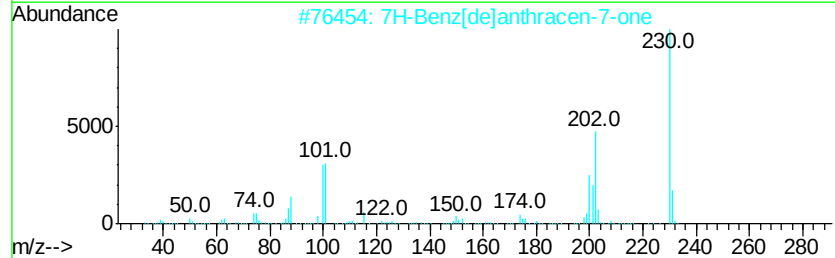
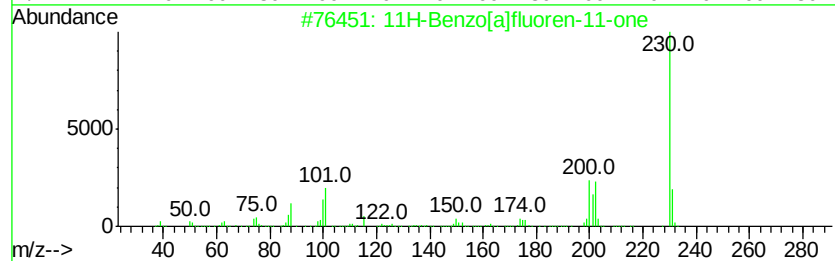
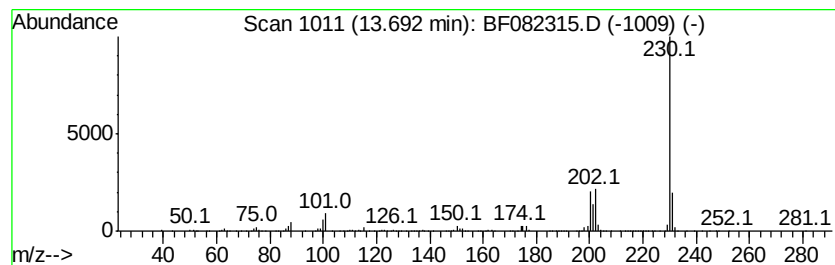
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 11H-Benzo[a]fluoren-11-one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.69	4.25 ng	628698	Chrysene-d12	14.09

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2		7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3		1-Pyrene-carboxaldehyde	230	C17H10O	003029-19-4	72
4		o-Terphenyl	230	C18H14	000084-15-1	64
5		Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	58



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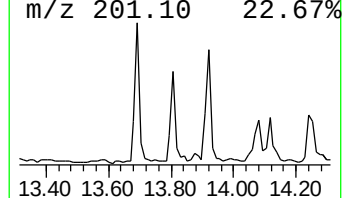
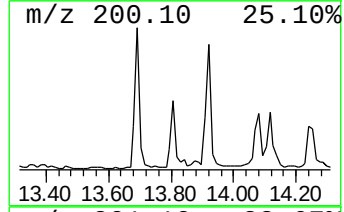
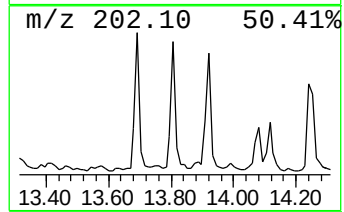
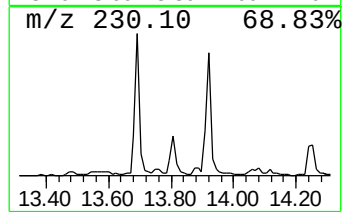
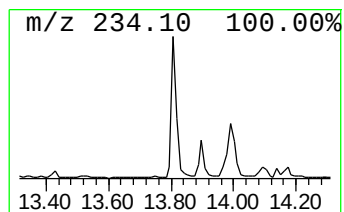
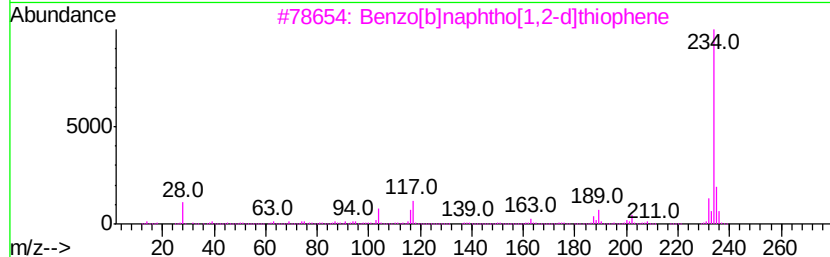
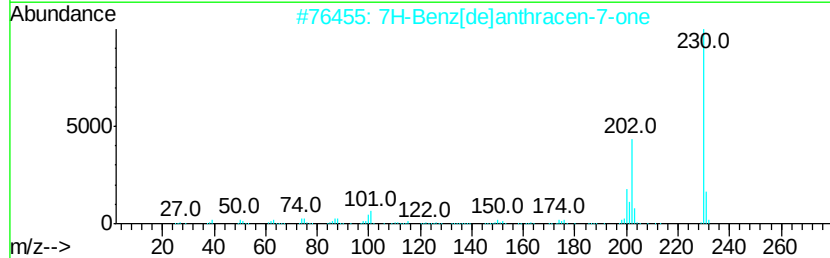
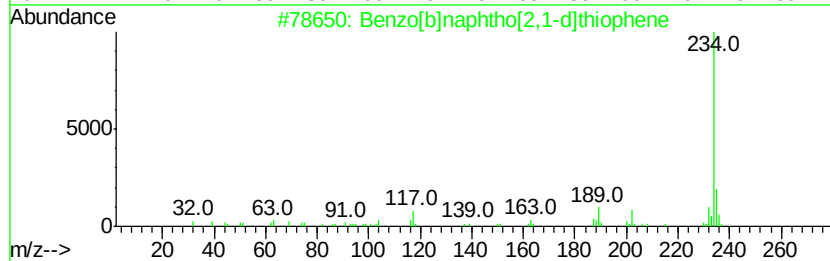
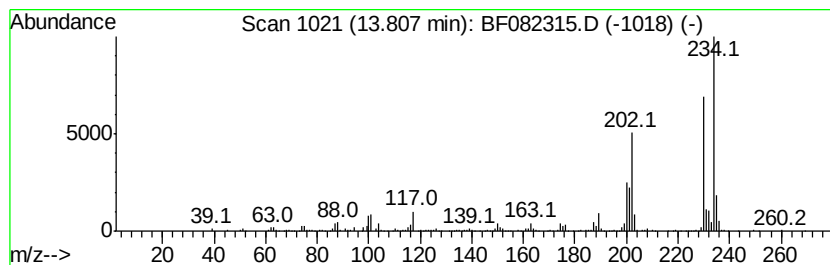
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.81	4.11 ng	608833	Chrysene-d12	14.09

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	89
2		7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	89
3		Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	46
4		1-Pyrene-carboxaldehyde	230	C17H10O	003029-19-4	46
5		Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	45



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\
Data File : BF082315.D
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Operator : UM/IZ
Sample : G4016-12 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

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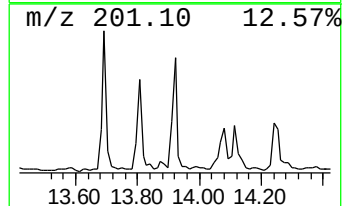
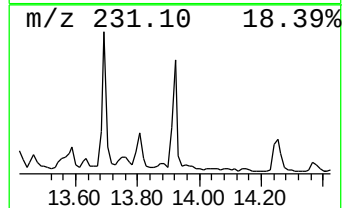
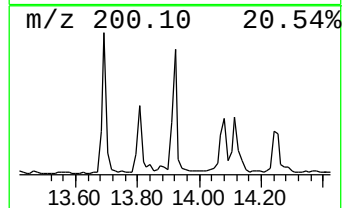
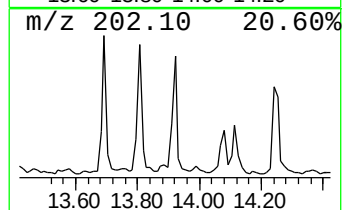
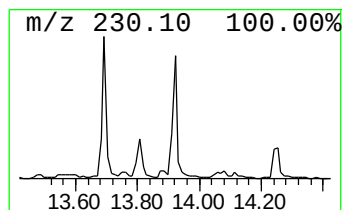
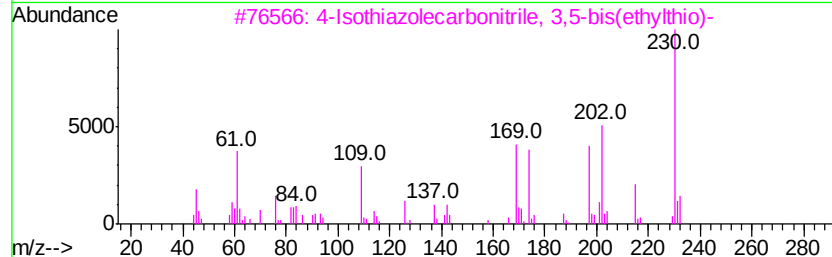
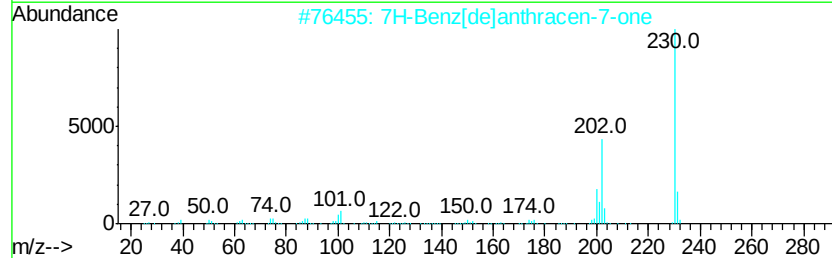
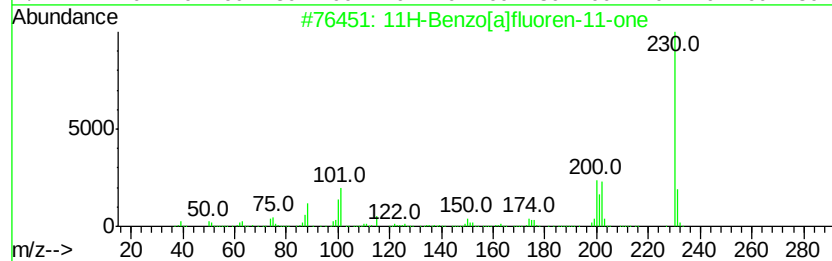
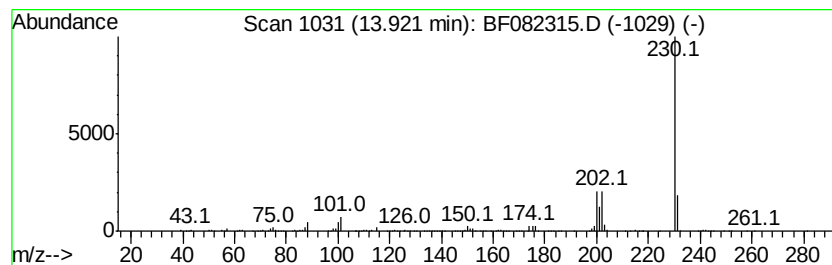
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 7H-Benz[de]anthracen-7-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.92	3.54 ng	523161	Chrysene-d12	14.09

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2		7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3		4-Isothiazolecarbonitrile, 3,5-b...	230	C8H10N2S3	024135-13-5	59
4		o-Terphenyl	230	C18H14	000084-15-1	50
5		4-Chloro-indeno[1,2-b]pyridin-5-...	230	C12H7ClN2O	1000294-18-6	45



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\
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ClientSampleId :
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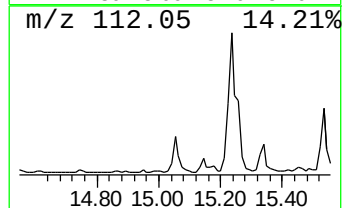
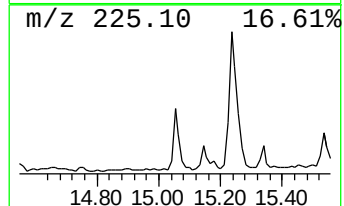
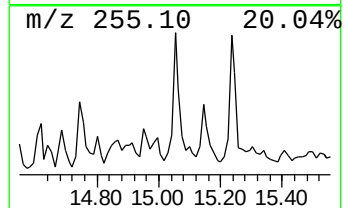
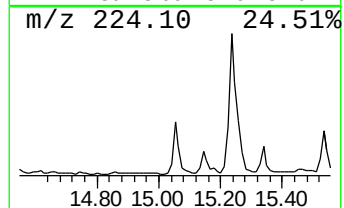
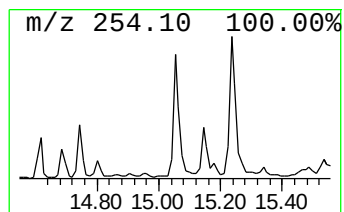
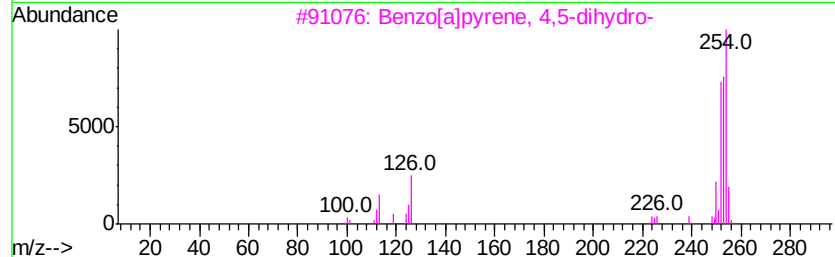
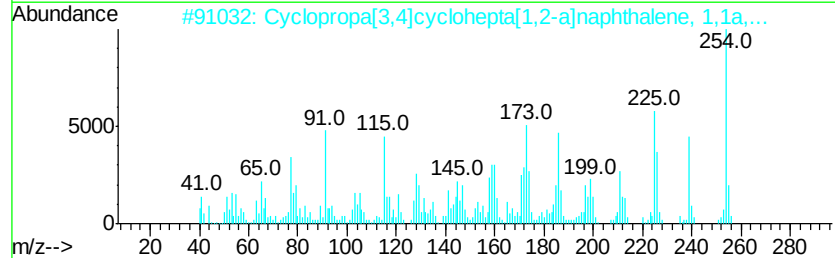
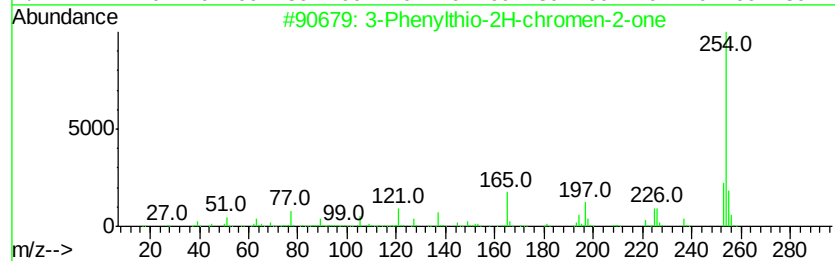
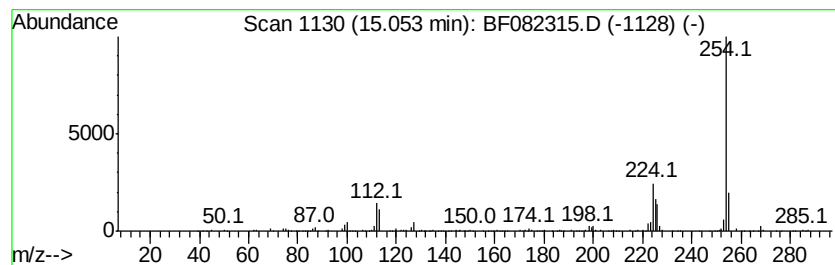
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 3-Phenylthio-2H-chromen-2-one Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.05	11.10 ng	305385	Perylene-d12	15.66

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		3-Phenylthio-2H-chromen-2-one	254	C15H10O2S	072167-95-4	53
2		Cyclopropa[3,4]cyclohepta[1,2-a]...	254	C18H22O	057983-83-2	53
3		Benzo[a]pyrene, 4,5-dihydro-	254	C20H14	057652-66-1	53
4		Chrysin	254	C15H10O4	000480-40-0	50
5		Benzenamine, 4,4'-methylenebis[N...	254	C17H22N2	000101-61-1	43



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101615\
Data File : BF082315.D
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Sample : G4016-12 10X
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ALS Vial : 37 Sample Multiplier: 1

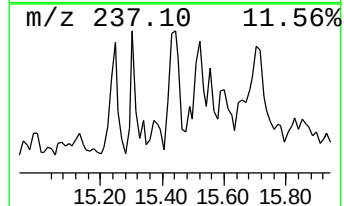
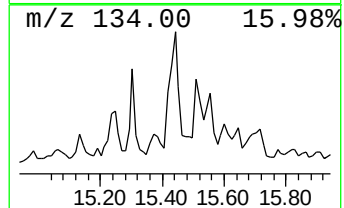
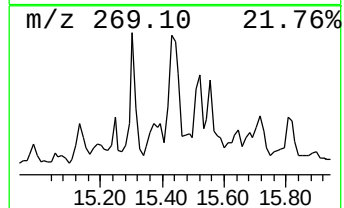
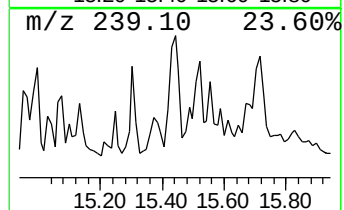
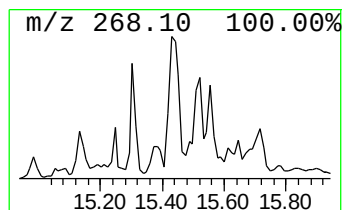
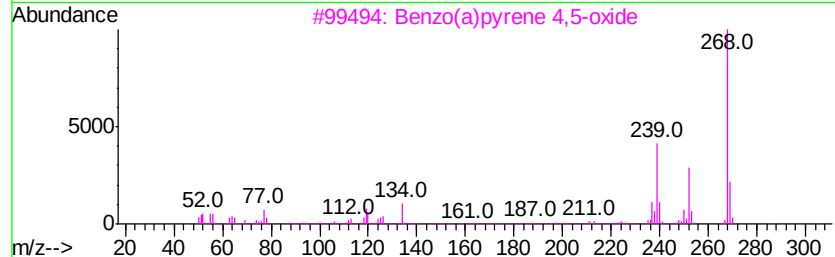
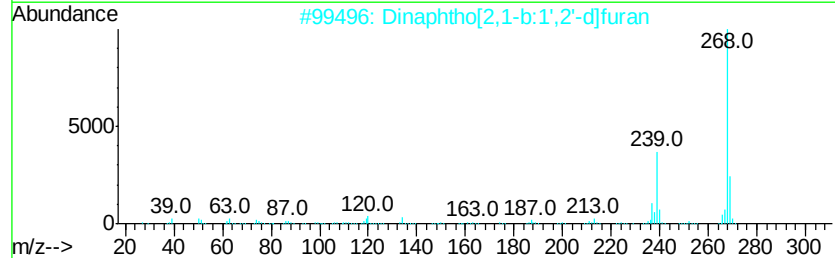
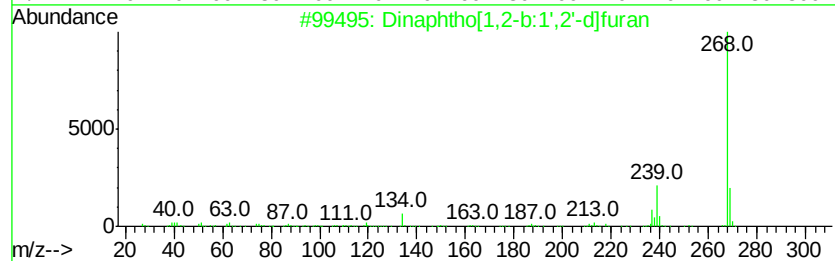
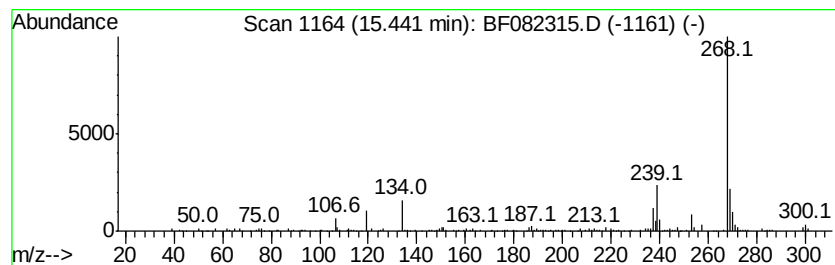
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD		R.T.	
15.44	7.01 ng	192843	Perylene-d12		15.66	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	93
2		Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	90
3		Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	87
4		9,10-Anthracenedione, 1,5-dimeth...	268	C16H12O4	006448-90-4	59
5		4H-1-Benzopyran-4-one, 5-hydroxy...	268	C16H12O4	000520-28-5	59



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\
Data File : BF082315.D
Acq On : 15 Oct 2015 18:02
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Sample : G4016-12 10X
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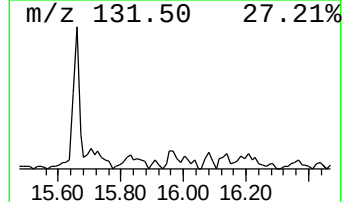
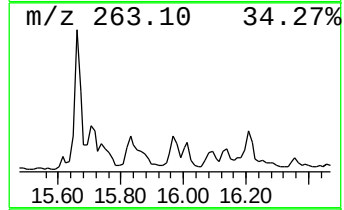
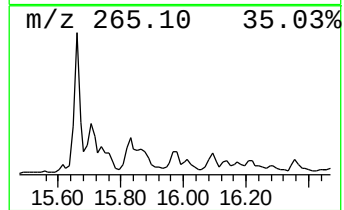
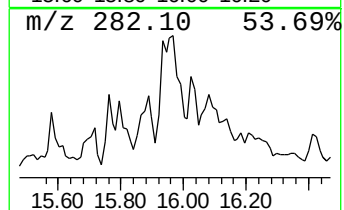
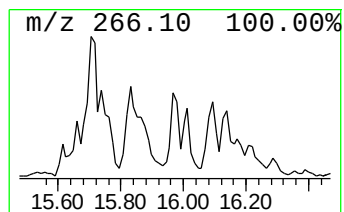
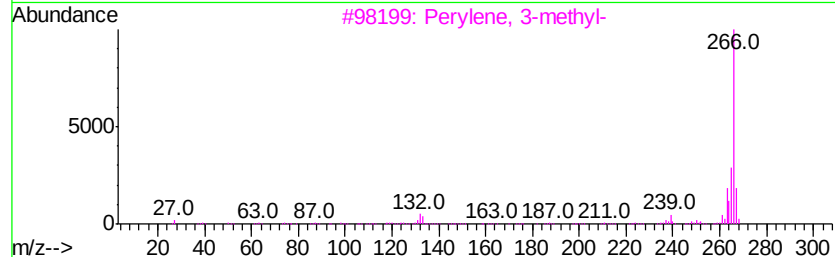
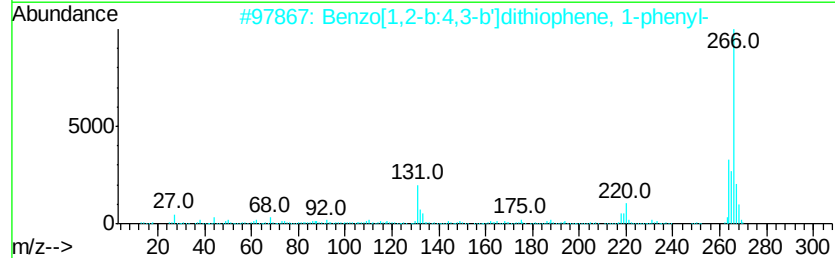
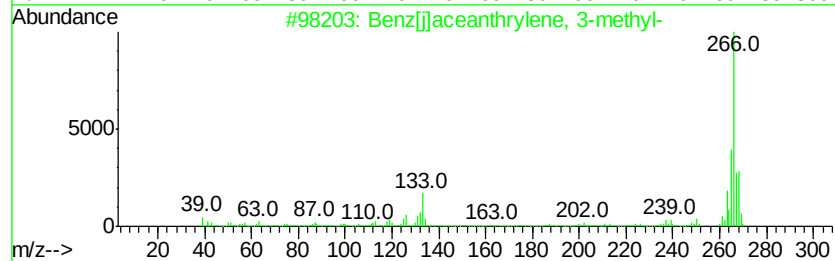
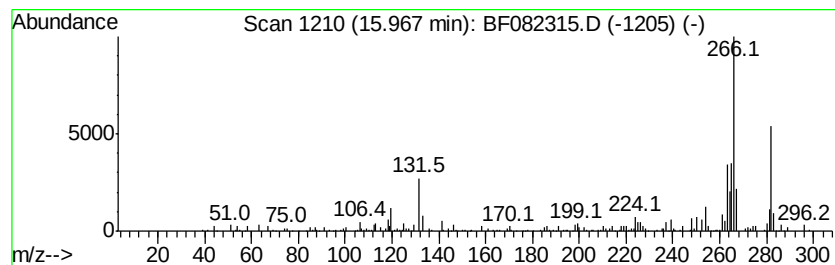
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Benz[j]aceanthrylene, 3-met... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.97	6.61 ng	181783	Perylene-d12	15.66

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benz[il]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	50
2			Benzo[1,2-b:4,3-b']dithiophene, ...	266	C16H10S2	016587-58-9	43
3			Perylene, 3-methyl-	266	C21H14	024471-47-4	43
4			Benzoic acid, 4-(4,5-dihydro-3-p...	266	C16H14N2O2	026192-74-5	38
5			5-(p-Dimethylaminocinnamoyl)-2-m...	266	C17H18N2O	004625-19-8	38



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101615\
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Sample : G4016-12 10X
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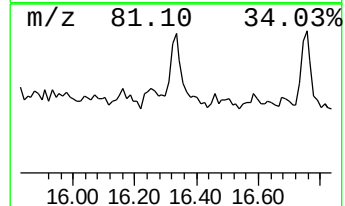
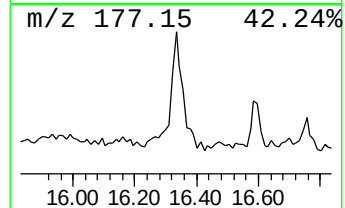
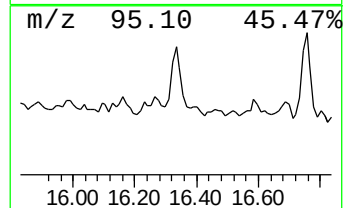
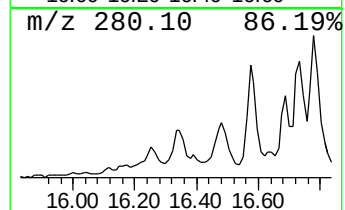
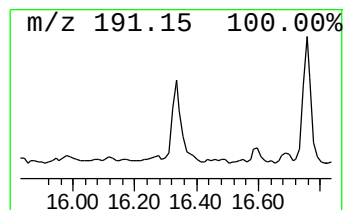
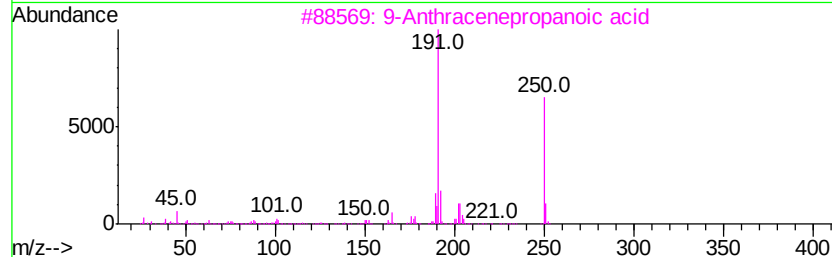
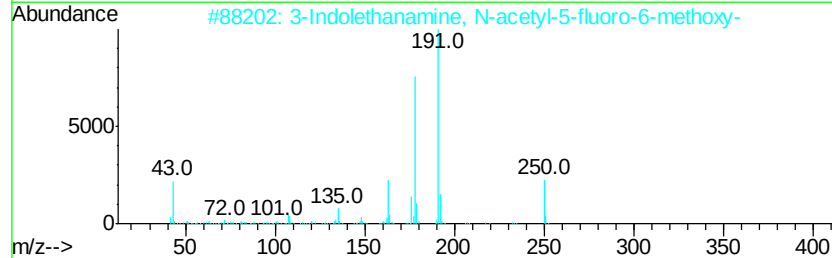
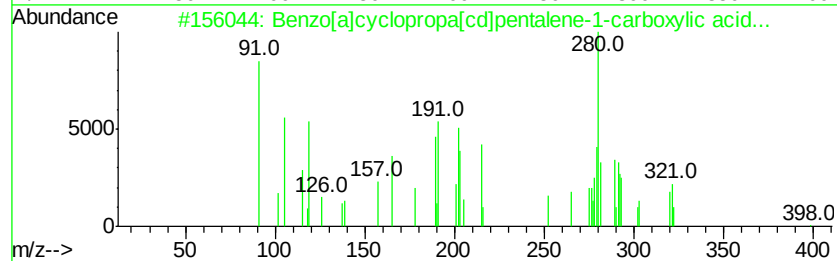
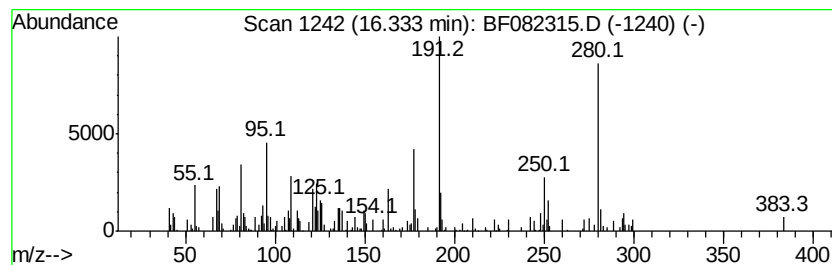
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 11 unknown16.33 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.		
16.33	5.97 ng	164260	Perylene-d12	15.66		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzo[a]cyclopropa[cd]pentalene-...	398	C26H22O4	040897-27-6	43
2		3-Indolethanamine, N-acetyl-5-fl...	250	C13H15FN2O2	1000116-27-1	38
3		9-Anthracenepropanoic acid	250	C17H14O2	041034-83-7	12
4		1-Penten-3-one, 1-(2,6,6-trimeth...	206	C14H22O	000127-43-5	12
5		1-Cyclohexene, 1,3,3-trimethyl-2...	206	C14H22O	1000197-08-4	12



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101615\
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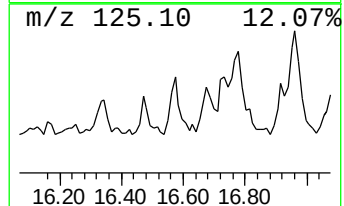
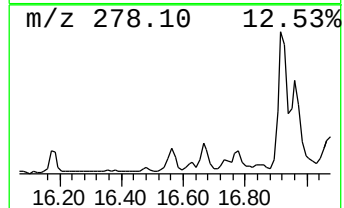
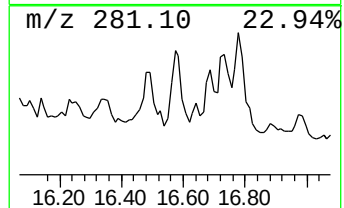
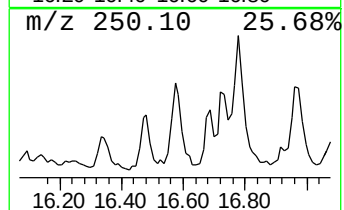
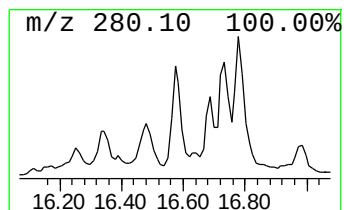
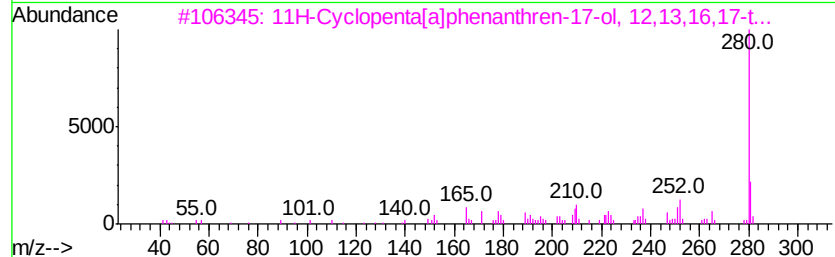
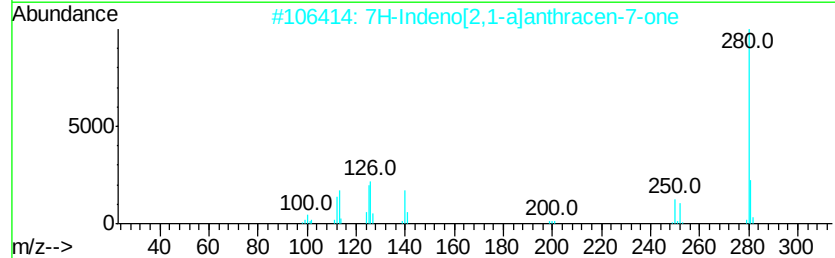
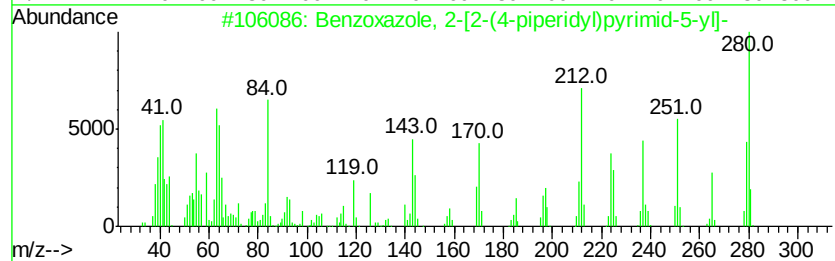
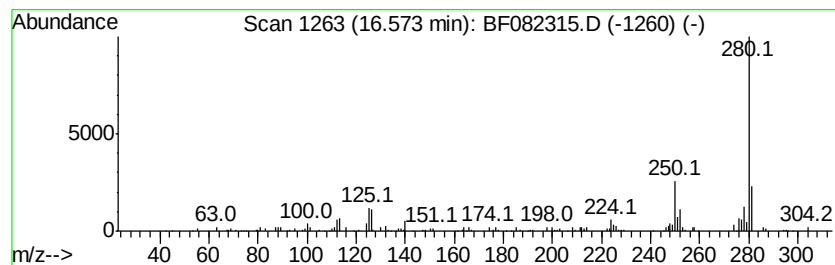
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 12 Benzoxazole, 2-[2-(4-piperi... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.57	3.77 ng	103709	Perylene-d12	15.66

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzoxazole, 2-[2-(4-piperidyl)p...	280	C16H16N4O	1000294-14-8	95
2		7H-Indeno[2,1-a]anthracen-7-one	280	C21H12O	027582-45-2	64
3		11H-Cyclopenta[<i>a</i>]phenanthren-17-...	280	C19H20O2	033760-56-4	59
4		Estra-1,3,5,7,9-pentaen-17-one, ...	280	C19H20O2	003907-67-3	59
5		3-Benzo[1,2,5]thiadiazol-4-yl-3H...	280	C14H8N4OS	1000274-81-9	58



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\
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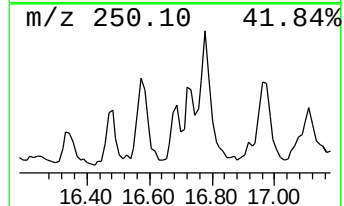
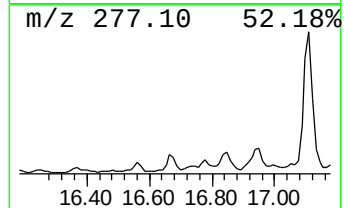
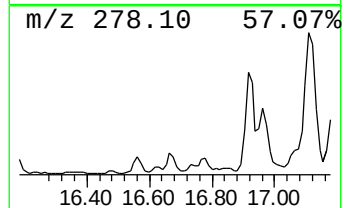
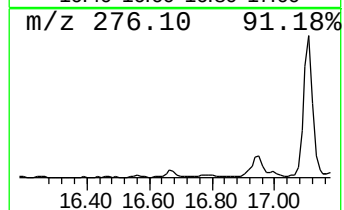
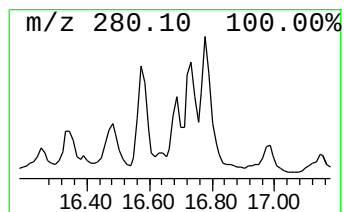
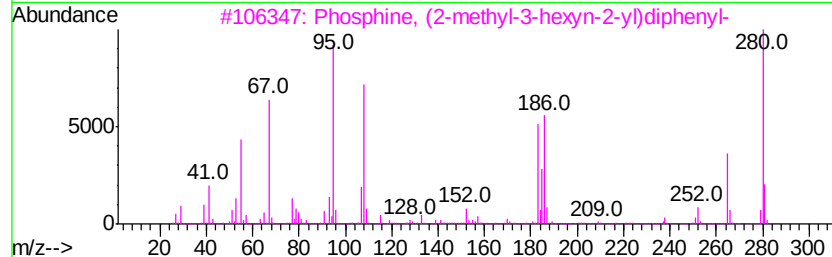
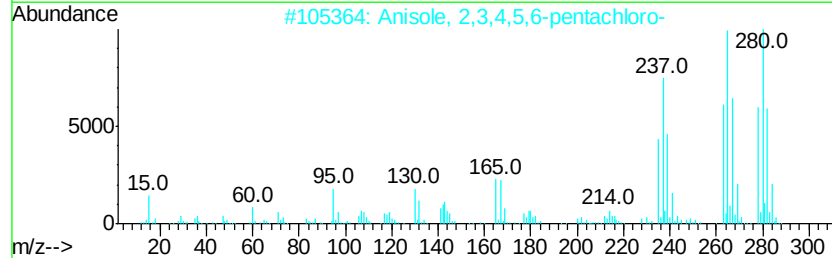
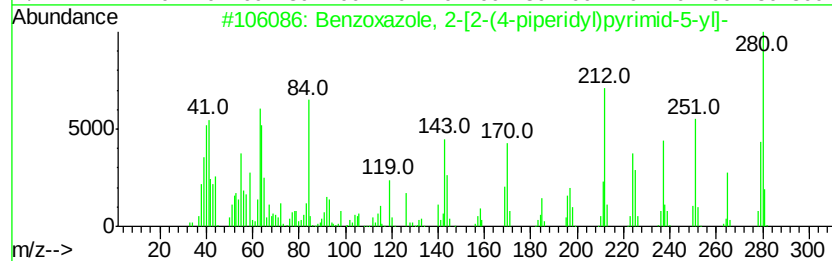
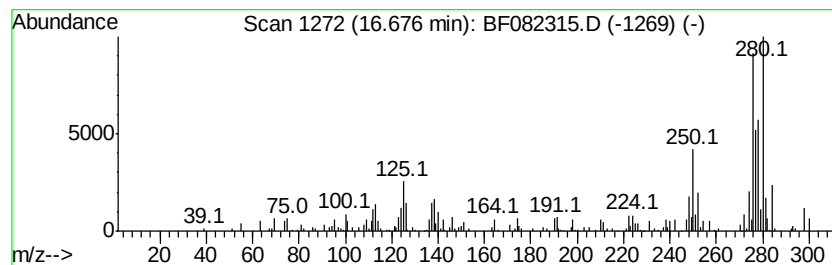
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 13 unknown16.68 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.68	3.86 ng	106163	Perylene-d12	15.66

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzoxazole, 2-[2-(4-piperidyl)p...	280	C16H16N4O	1000294-14-8	60
2			Anisole, 2,3,4,5,6-pentachloro-	278	C7H3Cl5O	001825-21-4	30
3			Phosphine, (2-methyl-3-hexyn-2-y...	280	C19H21P	1000150-16-0	25
4			3-Amino-6-[2-naphthylthiol]picoli...	277	C16H11N3S	095095-92-4	25
5			4-Methoxybenzene, 1-(2-hydroxyna...	277	C18H15NO2	1000223-58-5	22



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\
Data File : BF082315.D
Acq On : 15 Oct 2015 18:02
Operator : UM/IZ
Sample : G4016-12 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CS-13

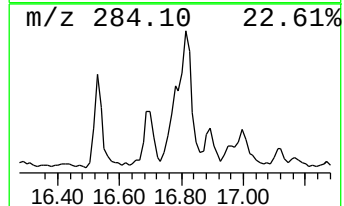
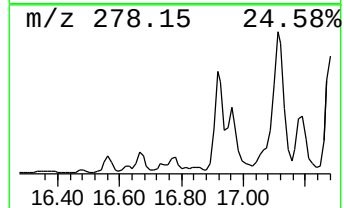
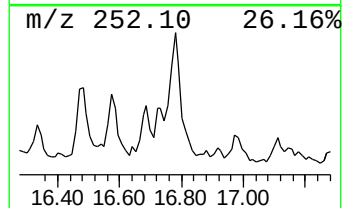
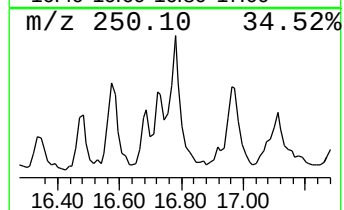
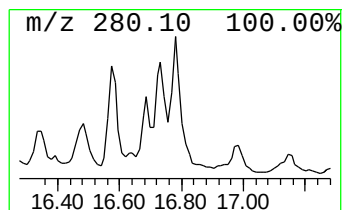
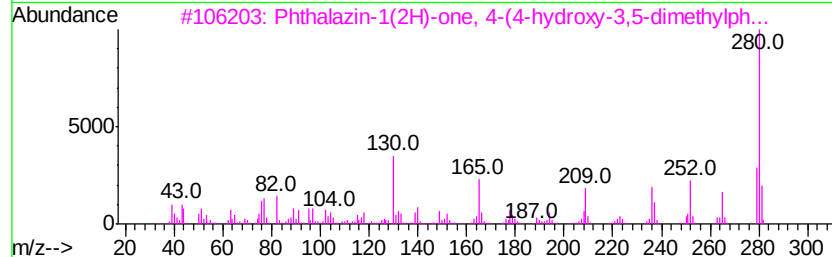
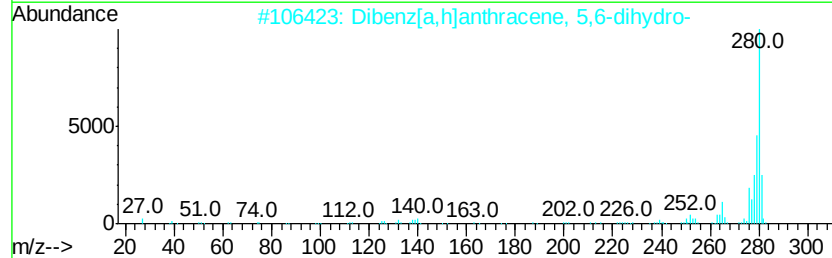
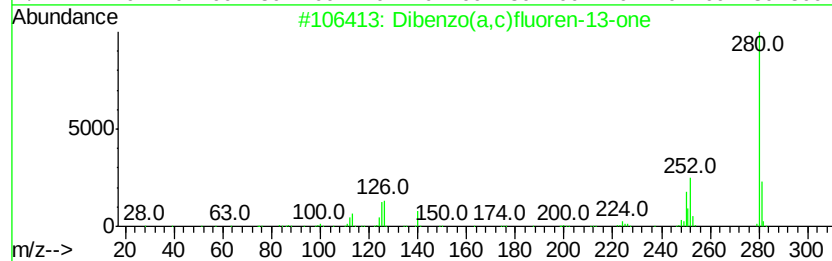
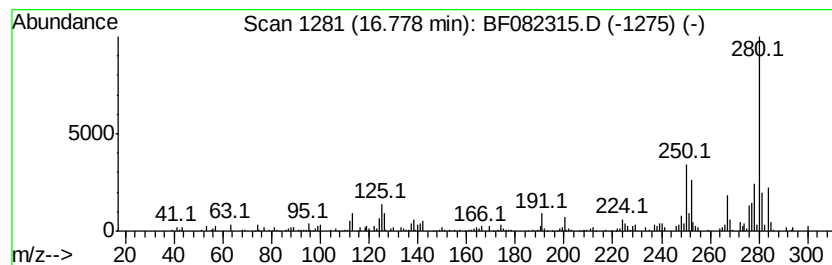
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 14 Dibenzo(a,c)fluoren-13-one Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.78	19.11 ng	526019	Perylene-d12	15.66

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo(a,c)fluoren-13-one	280	C21H12O	063041-47-4	91
2		Dibenz[a,h]anthracene, 5,6-dihydro-	280	C22H16	000153-34-4	55
3		Phthalazin-1(2H)-one, 4-(4-hydro...	280	C17H16N2O2	203246-97-3	49
4		Estra-1,3,5,7,9-pentaen-17-one, ...	280	C19H20O2	003907-67-3	47
5		11H-Cyclopenta[a]phenanthren-17-...	280	C19H20O2	033760-56-4	47



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\
Data File : BF082315.D
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Sample : G4016-12 10X
Misc :
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Instrument :
BNA_F
ClientSampleId :
CS-13

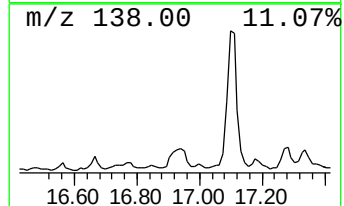
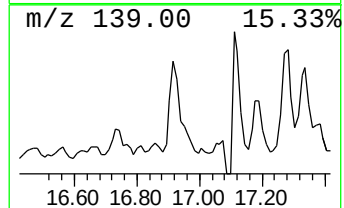
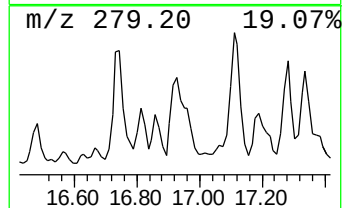
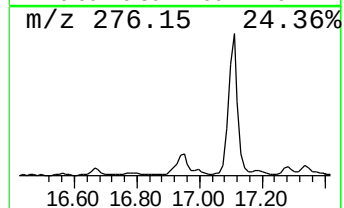
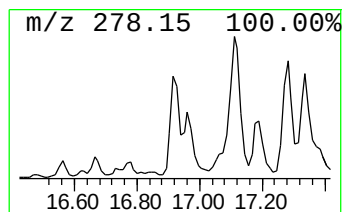
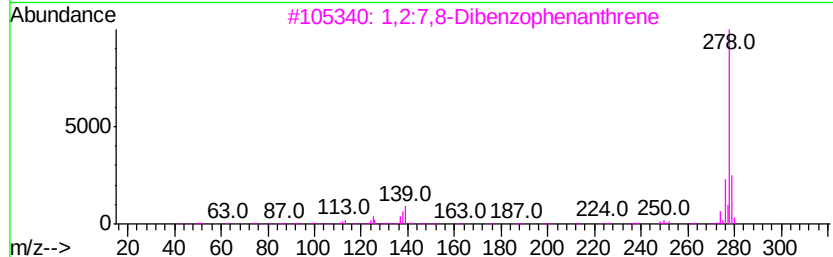
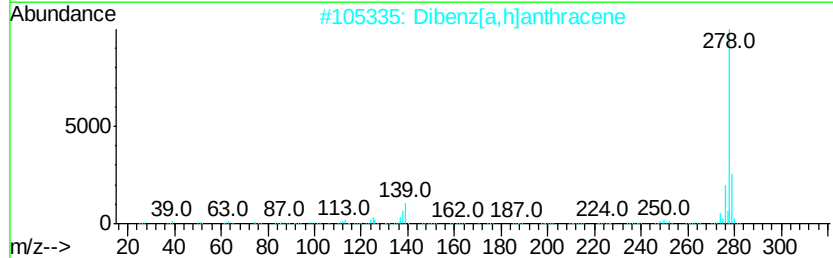
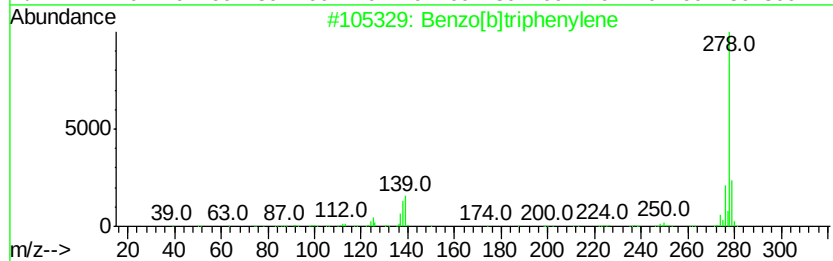
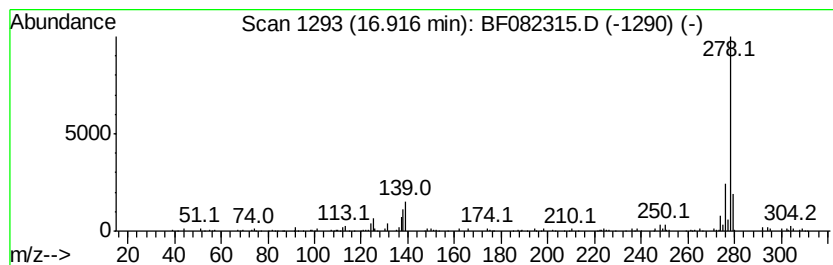
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 15 Benzo[b]triphenylene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.92	5.85 ng	161126	Perylene-d12	15.66

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[b]triphenylene	278	C22H14	000215-58-7	90
2			Dibenz[a,h]anthracene	278	C22H14	000053-70-3	90
3			1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	89
4			Pentacene	278	C22H14	000135-48-8	83
5			p-Bis(phenylethynyl)benzene	278	C22H14	001849-27-0	81



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Acq On : 15 Oct 2015 18:02
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Sample : G4016-12 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

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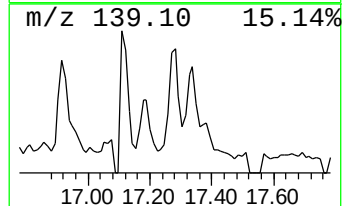
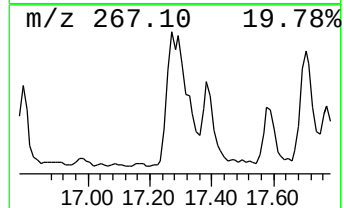
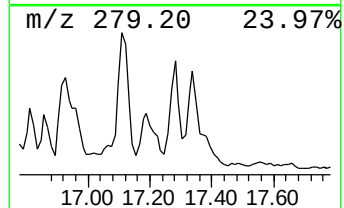
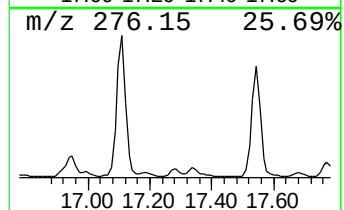
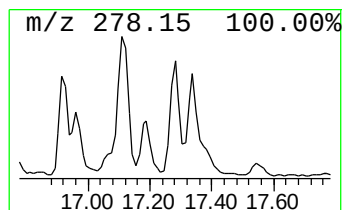
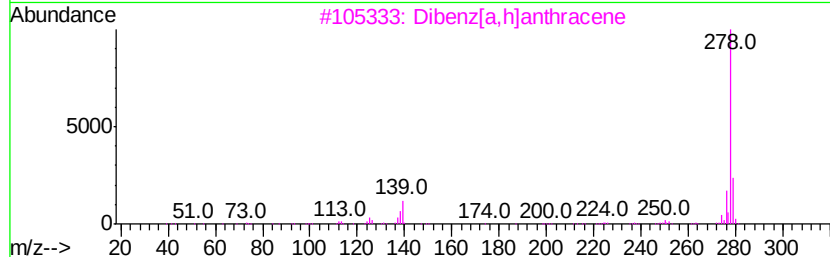
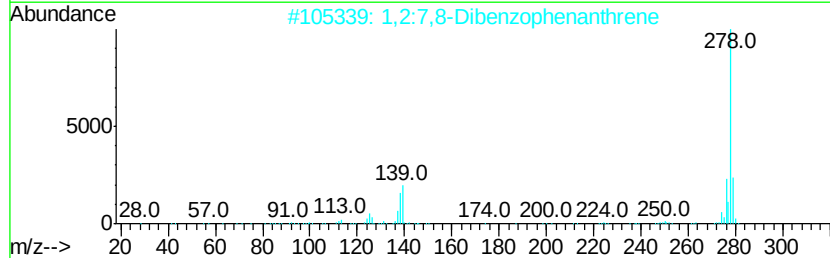
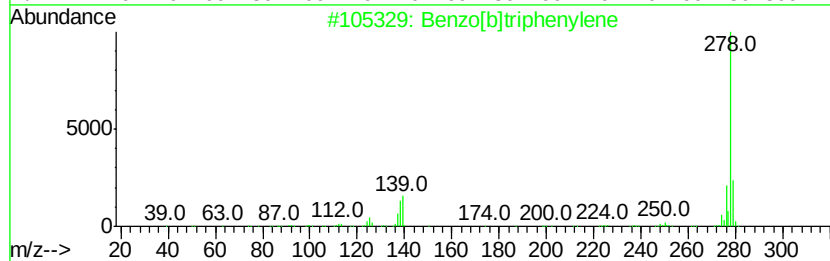
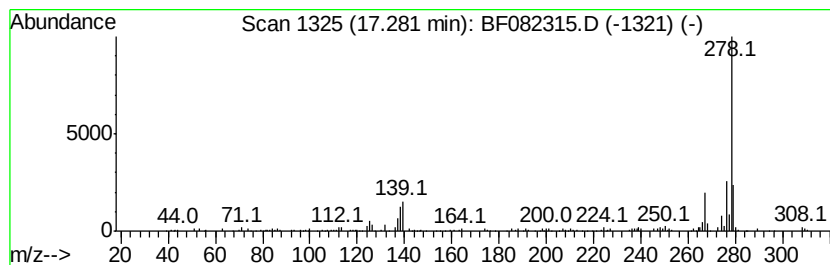
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 16 1,2:7,8-Dibenzophenanthrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.28	8.58 ng	236119	Perylene-d12	15.66

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[b]triphenylene	278	C22H14	000215-58-7	97
2			1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	97
3			Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93
4			Benzo[a]naphthacene	278	C22H14	000226-88-0	89
5			Benzo[b]chrysene	278	C22H14	000214-17-5	86



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\
Data File : BF082315.D
Acq On : 15 Oct 2015 18:02
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Misc :
ALS Vial : 37 Sample Multiplier: 1

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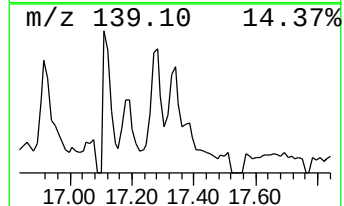
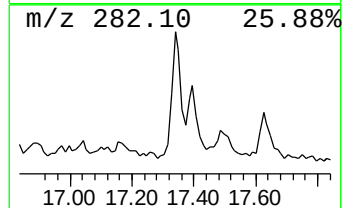
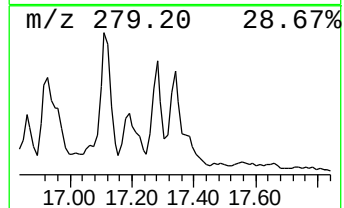
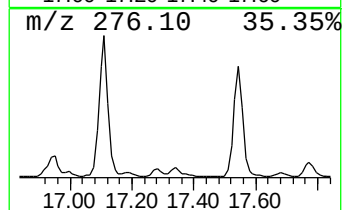
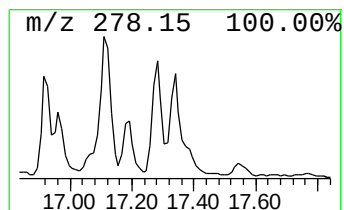
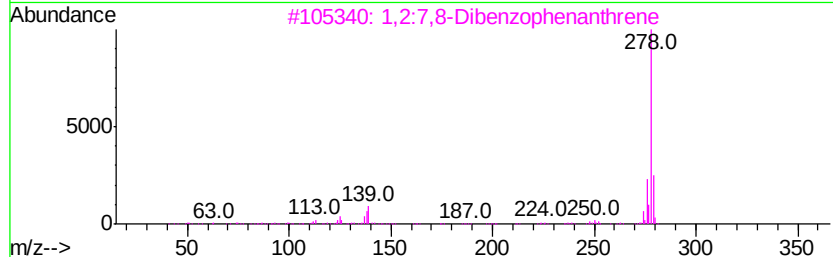
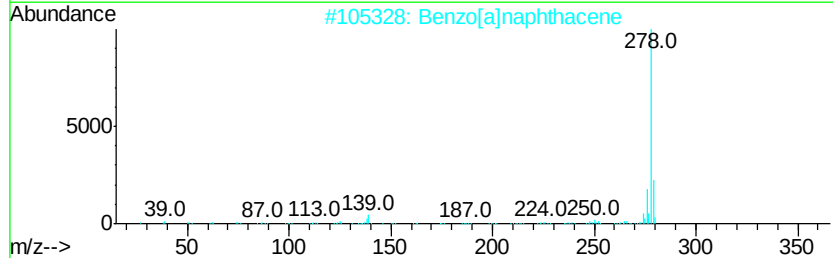
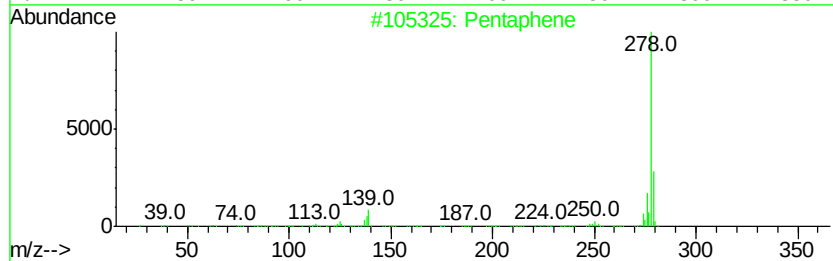
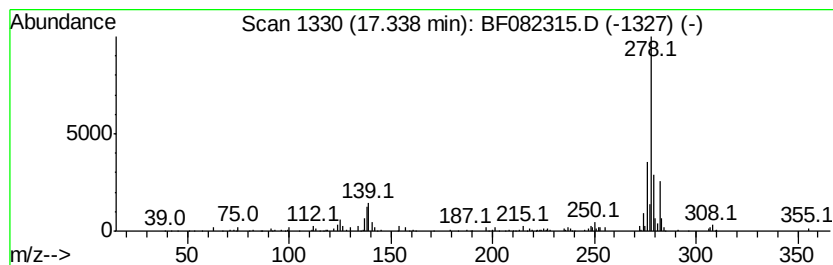
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 17 Pentaphene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.34	8.58 ng	236128	Perylene-d12	15.66

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentaphene	278	C22H14	000222-93-5	92
2			Benzo[a]naphthacene	278	C22H14	000226-88-0	92
3			1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	91
4			Benzo[b]chrysene	278	C22H14	000214-17-5	91
5			Benzo[b]triphenylene	278	C22H14	000215-58-7	83



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\
Data File : BF082315.D
Acq On : 15 Oct 2015 18:02
Operator : UM/IZ
Sample : G4016-12 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
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ClientSampleId :
CS-13

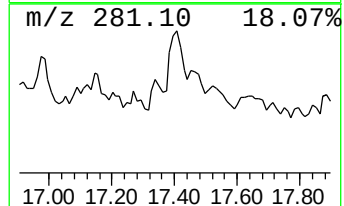
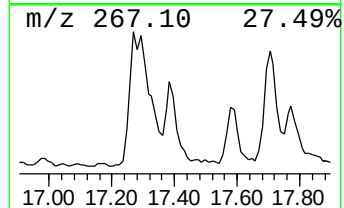
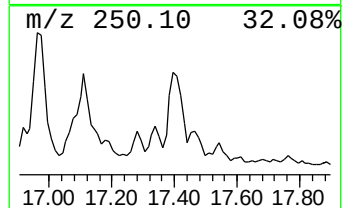
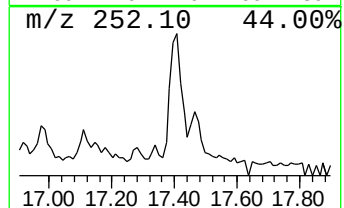
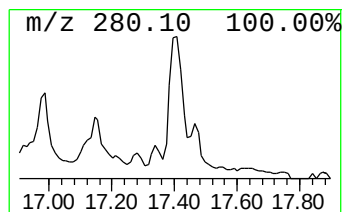
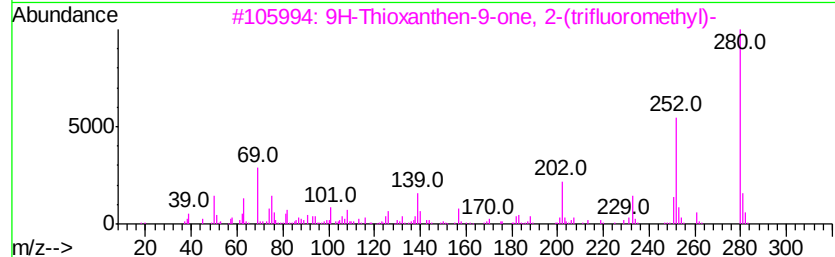
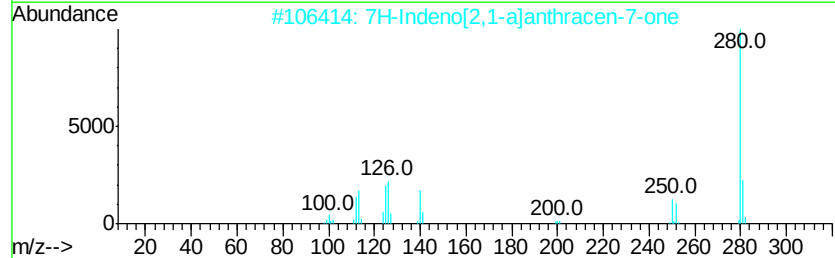
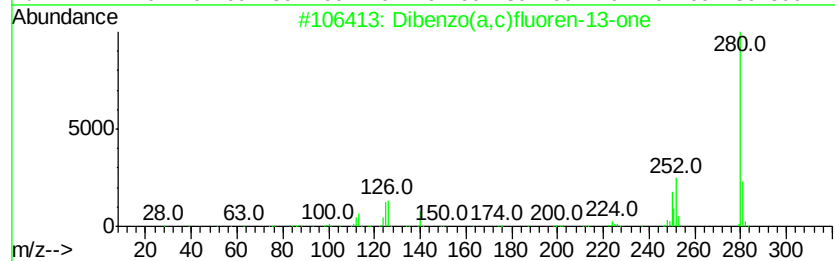
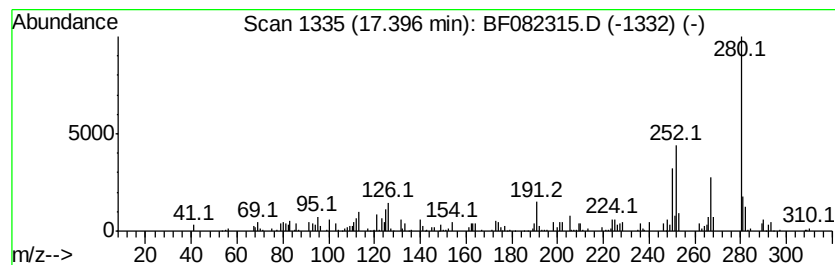
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 18 unknown17.40 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.40	7.59 ng	208820	Perylene-d12	15.66

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo(a,c)fluoren-13-one	280	C21H12O	063041-47-4	55
2		7H-Indeno[2,1-a]anthracen-7-one	280	C21H12O	027582-45-2	43
3		9H-Thioxanthen-9-one, 2-(trifluo...	280	C14H7F3OS	001693-28-3	40
4		Ethanone, 1-[5-hydroxy-1-(2-meth...	295	C18H17NO3	005165-59-3	38
5		Pentacene, 6,13-dihydro-	280	C22H16	013579-08-3	38



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101615\
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Sample : G4016-12 10X
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ALS Vial : 37 Sample Multiplier: 1

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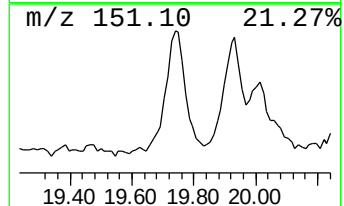
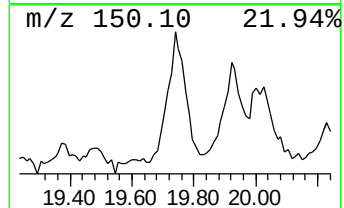
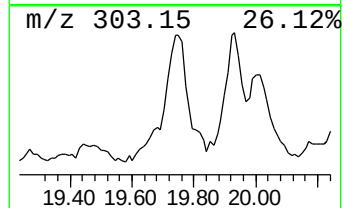
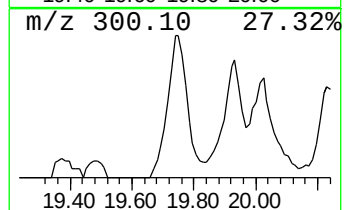
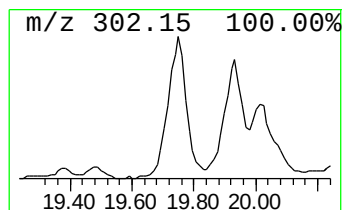
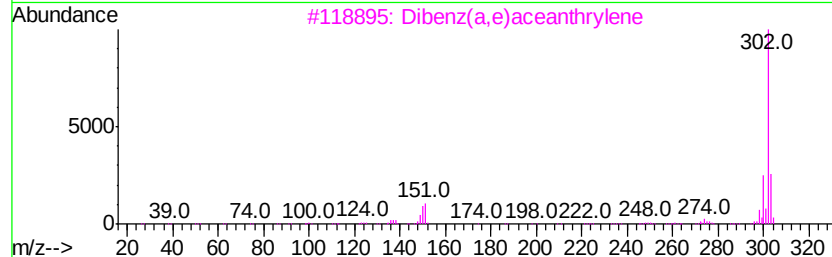
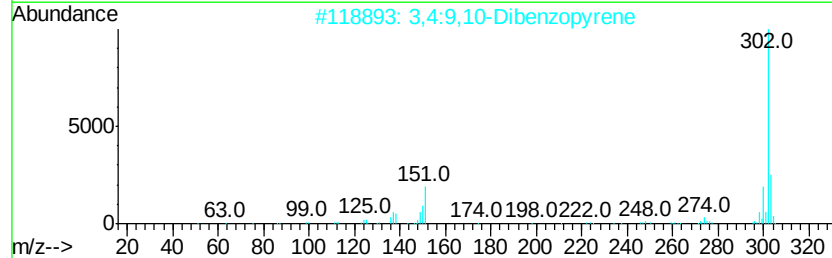
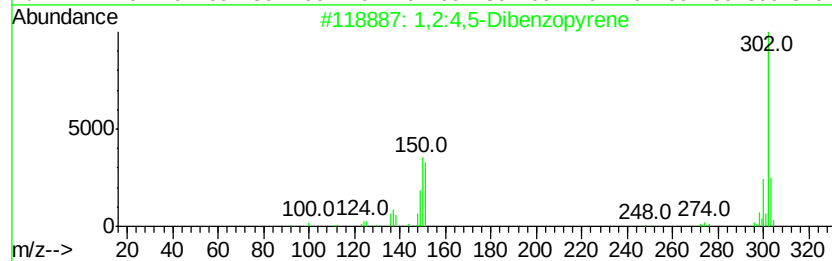
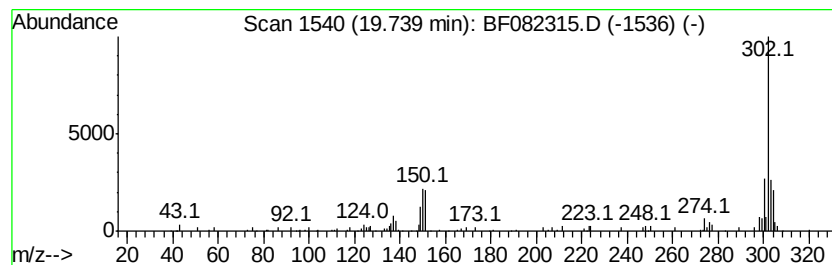
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.74	10.08 ng	277525	Perylene-d12	15.66

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	95
2		3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	91
3		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	89
4		3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	70
5		Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	62



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101615\
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 Sample : G4016-12 10X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
 TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
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11H-Benzo[a]fluor...	13.69	4.3 ng		628698	5	14.09	2959890	20.0
Benzo[b]naphtho[2...	13.81	4.1 ng		608833	5	14.09	2959890	20.0
7H-Benz[de]anthra...	13.92	3.5 ng		523161	5	14.09	2959890	20.0
3-Phenylthio-2H-c...	15.05	11.1 ng		305385	6	15.66	550426	20.0
Dinaphtho[1,2-b:1...	15.44	7.0 ng		192843	6	15.66	550426	20.0
Benz[j]aceanthryl...	15.97	6.6 ng		181783	6	15.66	550426	20.0
unknown16.33	16.33	6.0 ng		164260	6	15.66	550426	20.0
Benzoxazole, 2-[2...	16.57	3.8 ng		103709	6	15.66	550426	20.0
unknown16.68	16.68	3.9 ng		106163	6	15.66	550426	20.0
Dibenzo(a,c)fluor...	16.78	19.1 ng		526019	6	15.66	550426	20.0
Benzo[b]triphenylene	16.92	5.8 ng		161126	6	15.66	550426	20.0
1,2:7,8-Dibenzoph...	17.28	8.6 ng		236119	6	15.66	550426	20.0
Pentaphene	17.34	8.6 ng		236128	6	15.66	550426	20.0
unknown17.40	17.40	7.6 ng		208820	6	15.66	550426	20.0
1,2:4,5-Dibenzopy...	19.74	10.1 ng		277525	6	15.66	550426	20.0