

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070716\
 Data File : BF088799.D
 Acq On : 8 Jul 2016 1:03
 Operator : UM/SJ
 Sample : H3889-02 5X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-2

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-BF063016.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	1.701	8	10	16	rVB	43526	97732	2.28%	0.174%
2	1.827	19	21	62	rVB	1638031	4282853	100.00%	7.632%
3	5.324	324	327	329	rBV	388954	392147	9.16%	0.699%
4	6.376	417	419	421	rBV	341099	419647	9.80%	0.748%
5	6.502	428	430	433	rVB	507779	429444	10.03%	0.765%
6	6.742	448	451	453	rBV	651177	570573	13.32%	1.017%
7	6.890	460	464	467	rBV2	317904	622920	14.54%	1.110%
8	7.302	497	500	502	rBV	323820	272365	6.36%	0.485%
9	8.022	561	563	566	rBV	632777	690786	16.13%	1.231%
10	9.108	655	658	660	rBV	422257	452596	10.57%	0.806%
11	9.782	714	717	718	rBV	647209	720491	16.82%	1.284%
12	9.805	718	719	721	rVB	90111	79866	1.86%	0.142%
13	10.319	760	764	767	rBV2	76176	104917	2.45%	0.187%
14	10.559	781	785	787	rBV	285297	277873	6.49%	0.495%
15	10.696	795	797	800	rBV2	56388	94149	2.20%	0.168%
16	10.902	811	815	816	rVB3	33380	80071	1.87%	0.143%
17	10.936	816	818	820	rBV3	62822	99249	2.32%	0.177%
18	11.256	844	846	847	rVV	737098	658180	15.37%	1.173%
19	11.279	847	848	850	rVB	863965	642569	15.00%	1.145%
20	11.325	850	852	854	rVB	186919	204218	4.77%	0.364%
21	11.759	887	890	891	rBV	99229	107755	2.52%	0.192%
22	11.782	891	892	894	rVB	165688	135365	3.16%	0.241%
23	11.828	894	896	898	rBV	633062	579409	13.53%	1.032%
24	11.862	898	899	904	rVB	221856	357616	8.35%	0.637%
25	12.056	913	916	919	rVB2	119611	187224	4.37%	0.334%
26	12.205	926	929	930	rBV	55887	112505	2.63%	0.200%
27	12.228	930	931	934	rVV	855302	1135222	26.51%	2.023%
28	12.308	936	938	939	rBV	112734	135924	3.17%	0.242%
29	12.342	939	941	944	rVB2	64506	105753	2.47%	0.188%
30	12.388	944	945	950	rVB3	117994	130101	3.04%	0.232%
31	12.468	950	952	954	rBV	1887108	2786793	65.07%	4.966%
32	12.525	954	957	959	rBV2	64878	100097	2.34%	0.178%
33	12.617	962	965	969	rVB2	89413	186406	4.35%	0.332%
34	12.697	969	972	975	rBV	1914098	3295404	76.94%	5.872%

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35	12.742	975	976	979	rVB2	170911	200258	4.68%	0.357%
36	12.811	980	982	983	rBV	241299	226165	5.28%	0.403%
37	12.845	983	985	988	rVB	415483	500977	11.70%	0.893%
38	12.914	988	991	995	rBV3	273925	515580	12.04%	0.919%
39	13.028	995	1001	1002	rBV	634238	1082298	25.27%	1.929%
40	13.085	1005	1006	1008	rVV	459729	514780	12.02%	0.917%
41	13.131	1008	1010	1013	rVV2	382158	724860	16.92%	1.292%
42	13.188	1013	1015	1016	rVV2	65948	104776	2.45%	0.187%
43	13.222	1016	1018	1019	rVV	217048	296080	6.91%	0.528%
44	13.245	1019	1020	1022	rVV	324352	350686	8.19%	0.625%
45	13.325	1025	1027	1030	rVV4	94526	211933	4.95%	0.378%
46	13.405	1032	1034	1035	rVV2	68629	135833	3.17%	0.242%
47	13.451	1036	1038	1041	rVB2	203677	307892	7.19%	0.549%
48	13.531	1041	1045	1047	rBV2	316464	548370	12.80%	0.977%
49	13.588	1049	1050	1052	rVB	143880	148277	3.46%	0.264%
50	13.634	1052	1054	1056	rBV2	459097	797112	18.61%	1.420%
51	13.668	1056	1057	1058	rVV	391391	338873	7.91%	0.604%
52	13.691	1058	1059	1062	rVV2	312372	589561	13.77%	1.051%
53	13.737	1062	1063	1067	rVB	341017	384682	8.98%	0.685%
54	13.805	1067	1069	1071	rVB	121362	100931	2.36%	0.180%
55	13.885	1072	1076	1078	rBV2	1912580	3774476	88.13%	6.726%
56	13.931	1078	1080	1083	rVV	1691356	2280114	53.24%	4.063%
57	13.999	1083	1086	1087	rVV2	441977	571584	13.35%	1.019%
58	14.057	1087	1091	1092	rVV3	138651	387517	9.05%	0.691%
59	14.102	1094	1095	1098	rVB2	183208	312797	7.30%	0.557%
60	14.205	1103	1104	1106	rBV	116566	135351	3.16%	0.241%
61	14.240	1106	1107	1108	rVV	165970	148287	3.46%	0.264%
62	14.274	1108	1110	1112	rVV	536664	873128	20.39%	1.556%
63	14.308	1112	1113	1114	rVV	344951	360904	8.43%	0.643%
64	14.377	1117	1119	1120	rVV2	238439	377849	8.82%	0.673%
65	14.422	1120	1123	1125	rVV3	392277	721162	16.84%	1.285%
66	14.468	1125	1127	1131	rVB4	153909	237907	5.55%	0.424%
67	14.525	1131	1132	1134	rVB	98807	78287	1.83%	0.140%
68	14.582	1134	1137	1138	rBV	203875	323568	7.55%	0.577%
69	14.651	1142	1143	1144	rBV	179253	175451	4.10%	0.313%
70	14.685	1144	1146	1148	rVB	225963	263823	6.16%	0.470%
71	14.754	1150	1152	1156	rVB2	158092	228424	5.33%	0.407%

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72	14.914	1162	1166	1170	rBV	1611908	3945256	92.12%	7.030%
73	14.971	1170	1171	1172	rVV	120309	130346	3.04%	0.232%
74	14.994	1172	1173	1175	rVB	355733	350058	8.17%	0.624%
75	15.097	1178	1182	1184	rBV4	149628	419671	9.80%	0.748%
76	15.177	1186	1189	1192	rVV	984149	1459828	34.09%	2.601%
77	15.245	1192	1195	1197	rVB	1230839	1912653	44.66%	3.408%
78	15.291	1197	1199	1200	rBV	337824	472402	11.03%	0.842%
79	15.314	1200	1201	1204	rVB2	437238	622920	14.54%	1.110%
80	15.451	1210	1213	1214	rBV2	99017	185088	4.32%	0.330%
81	15.577	1222	1224	1225	rBV	118400	123783	2.89%	0.221%
82	15.611	1225	1227	1230	rVB	191320	276538	6.46%	0.493%
83	15.680	1230	1233	1235	rBV	130499	244027	5.70%	0.435%
84	15.725	1235	1237	1238	rBV	93157	135735	3.17%	0.242%
85	15.794	1241	1243	1247	rVB2	138497	211071	4.93%	0.376%
86	15.920	1252	1254	1256	rBV2	52915	80033	1.87%	0.143%
87	16.205	1275	1279	1281	rBV4	46998	141768	3.31%	0.253%
88	16.434	1295	1299	1308	rBV3	127755	522246	12.19%	0.931%
89	16.617	1309	1315	1318	rVB2	606036	1294702	30.23%	2.307%
90	16.765	1325	1328	1330	rBV	145661	258100	6.03%	0.460%
91	16.823	1330	1333	1335	rBV2	83506	164579	3.84%	0.293%
92	17.017	1345	1350	1357	rBV	437765	1019836	23.81%	1.817%
93	17.131	1357	1360	1364	rVV3	64531	230582	5.38%	0.411%
94	17.211	1364	1367	1374	rVB2	136762	373896	8.73%	0.666%
95	17.326	1375	1377	1383	rVB3	40894	117678	2.75%	0.210%
96	17.691	1406	1409	1415	rVB	69892	173334	4.05%	0.309%
97	17.828	1418	1421	1425	rBV2	33345	92792	2.17%	0.165%
98	18.046	1436	1440	1452	rVB4	70208	345158	8.06%	0.615%
99	19.017	1520	1525	1533	rVB	142069	550531	12.85%	0.981%
100	19.189	1534	1540	1544	rBV	94478	386273	9.02%	0.688%

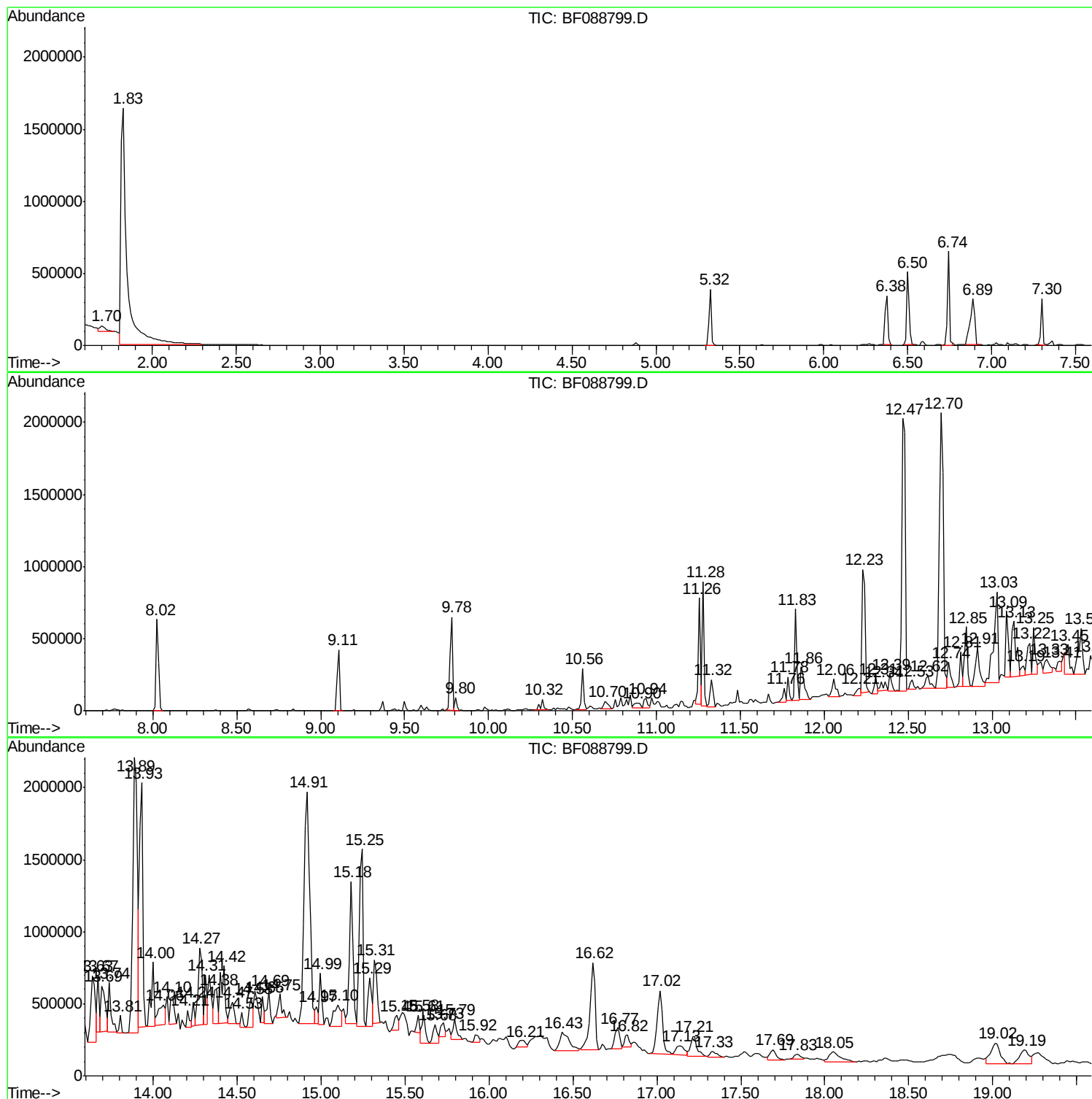
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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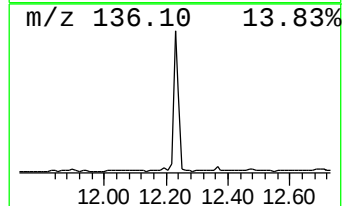
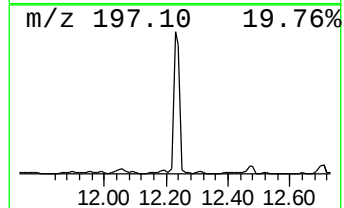
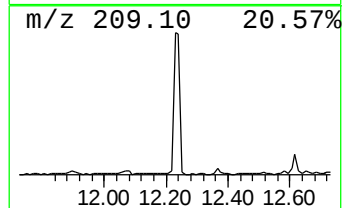
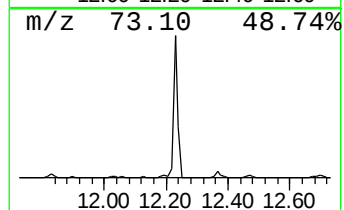
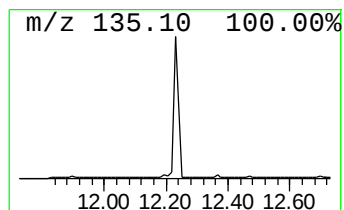
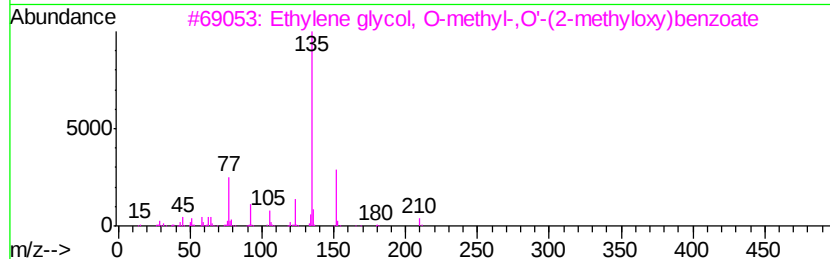
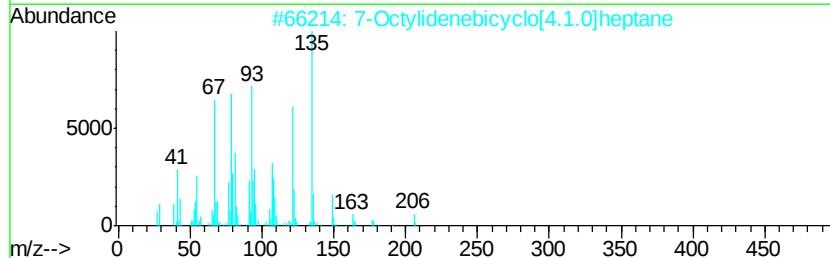
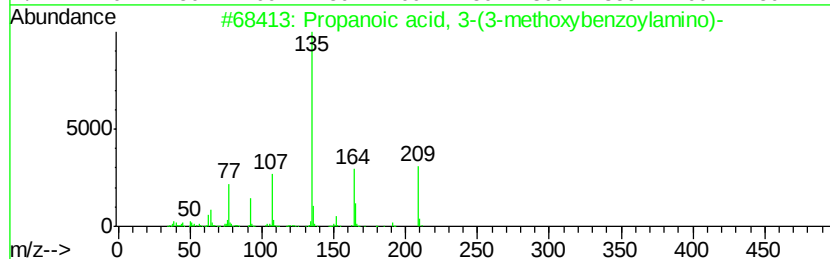
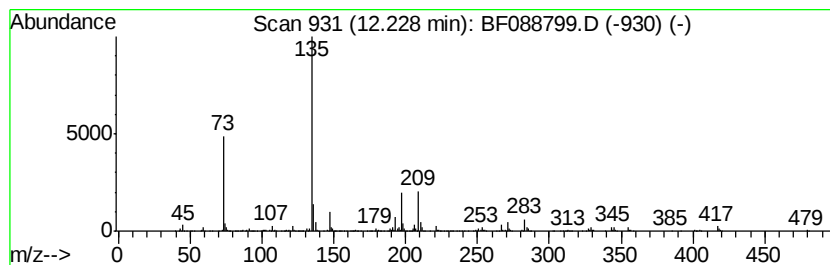
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 Propanoic acid, 3-(3-methox... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.23	34.50 ng	1135220	Phenanthrene-d10	11.26

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Propanoic acid, 3-(3-methoxybenz...	209	C10H11N04	057728-61-7	53
2		7-Octylidenebicyclo[4.1.0]heptane	206	C15H26	082253-11-0	49
3		Ethylene glycol, O-methyl-,O'-(2...	210	C11H14O4	948839-90-5	47
4		4-Isothiocyanatomethyl-benzoic acid	193	C9H7N02S	035009-14-4	46
5		1-Adamantanecarboxylic acid, mor...	249	C15H23N02	1000307-46-3	43



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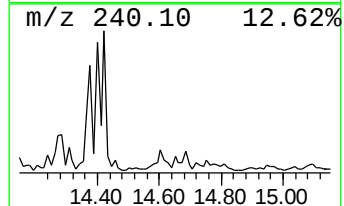
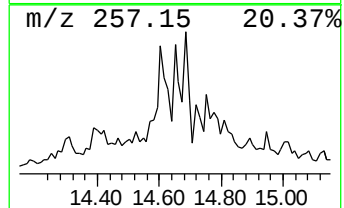
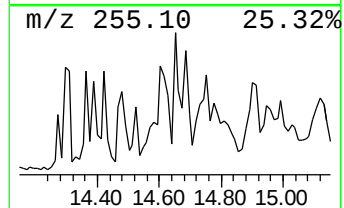
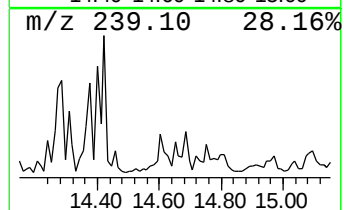
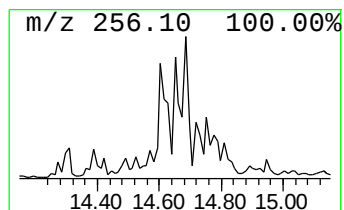
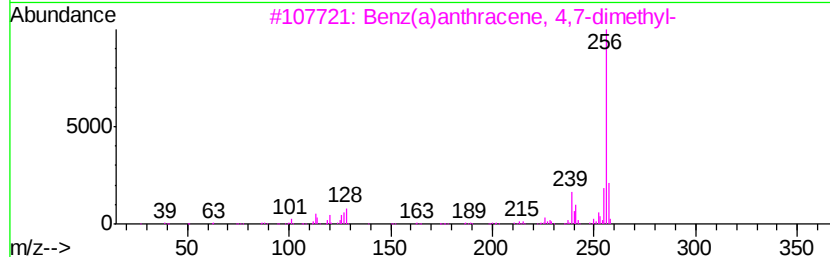
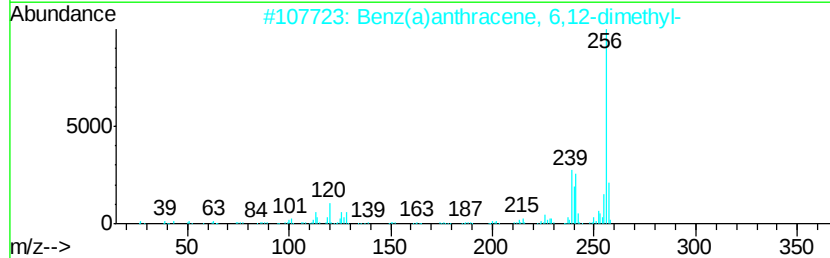
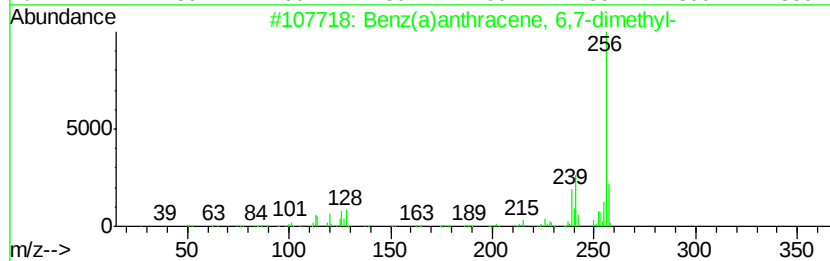
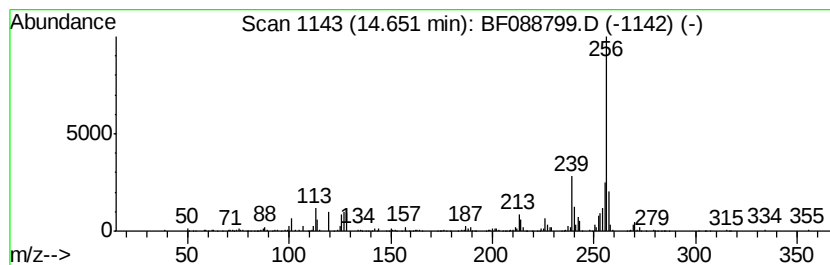
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TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Benz(a)anthracene, 6,7-dime... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.65	7.43 ng	175451	Perylene-d12	15.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benz(a)anthracene, 6,7-dimethyl-	256	C20H16	020627-28-5	93
2		Benz(a)anthracene, 6,12-dimethyl-	256	C20H16	000568-81-0	93
3		Benz(a)anthracene, 4,7-dimethyl-	256	C20H16	035187-18-9	93
4		5,12-Dimethylbenz[<i>a</i>]anthracene	256	C20H16	021297-22-3	93
5		Benzo[<i>c</i>]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	93



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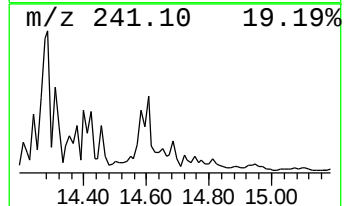
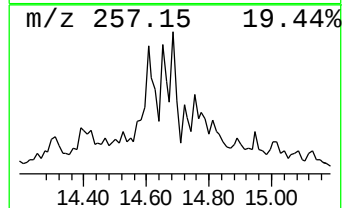
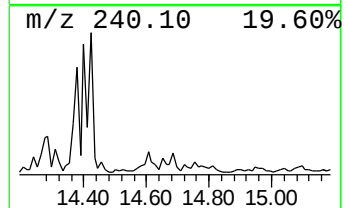
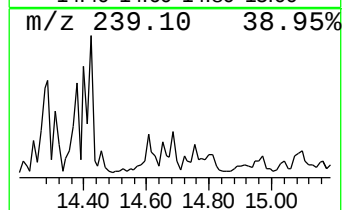
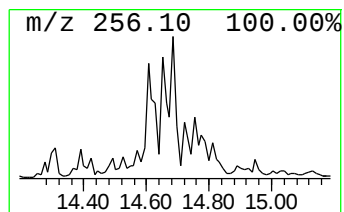
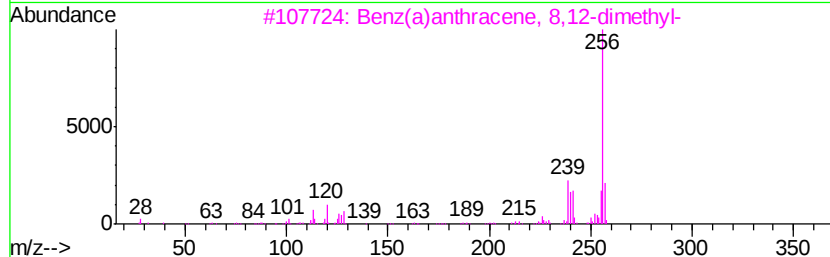
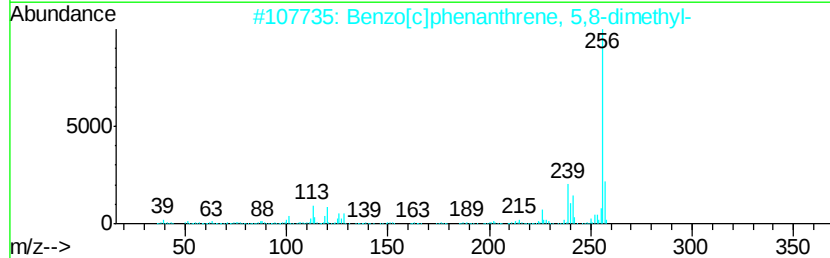
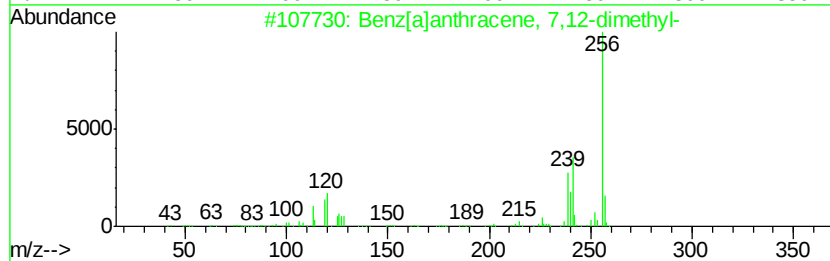
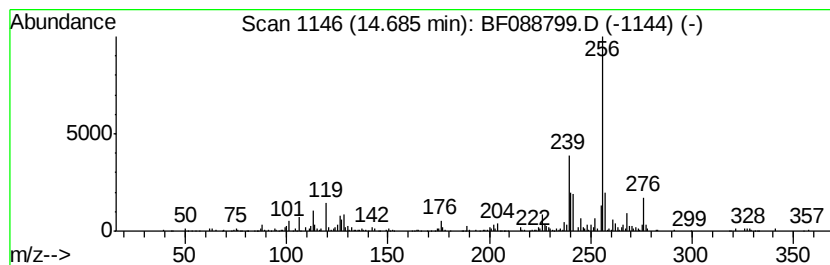
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Peak Number 5 Benz[a]anthracene, 7,12-dim... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.69	11.17 ng	263823	Perylene-d12	15.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	93
2		Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	90
3		Benz(a)anthracene, 8,12-dimethyl-	256	C20H16	020627-31-0	89
4		5,12-Dimethylbenz[a]anthracene	256	C20H16	021297-22-3	86
5		Benz(a)anthracene, 6,12-dimethyl-	256	C20H16	000568-81-0	83



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Data File : BF088799.D
Acq On : 8 Jul 2016 1:03
Operator : UM/SJ
Sample : H3889-02 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

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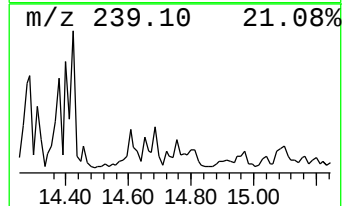
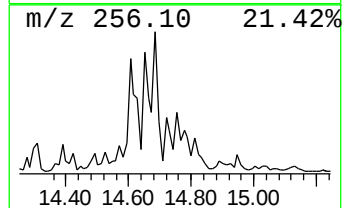
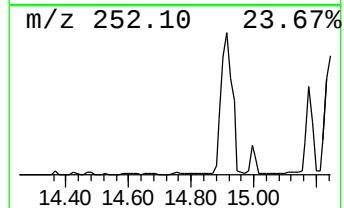
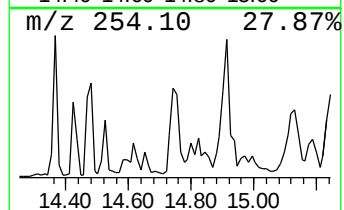
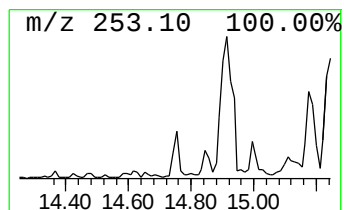
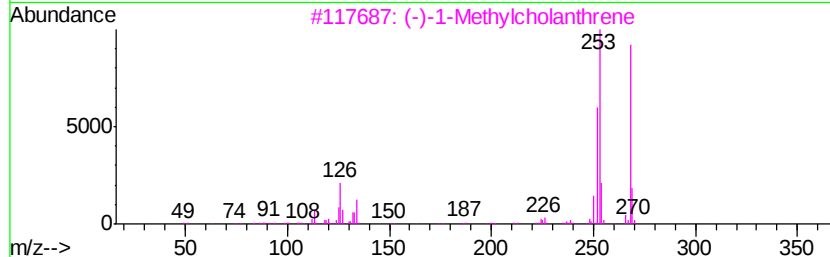
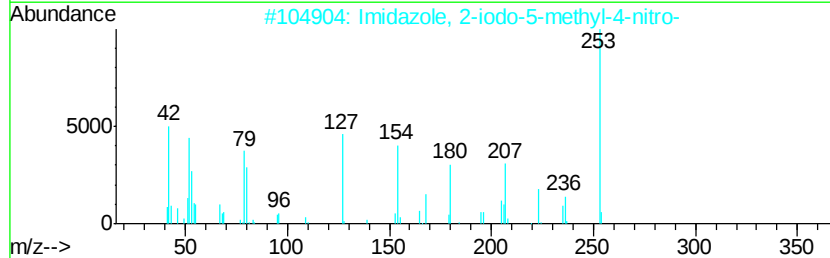
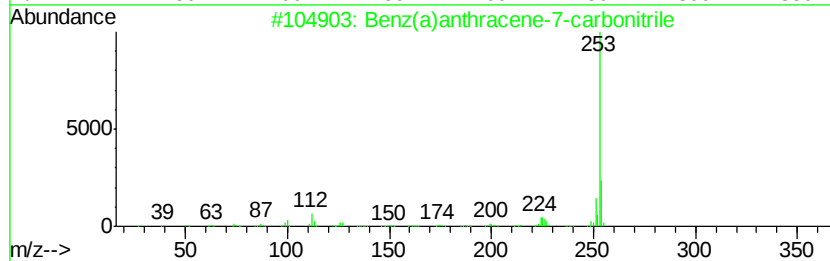
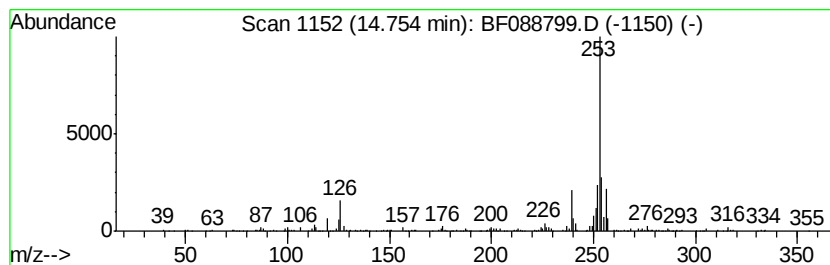
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 unknown14.75 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.75	9.67 ng	228424	Perylene-d12	15.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	46
2		Imidazole, 2-iodo-5-methyl-4-nitro-	253	C4H4IN3O2	149510-86-1	46
3		(-)-1-Methylcholanthrene	268	C21H16	1000126-55-9	43
4		Carbamate, N-(2-naphthyl)-, 3-pe...	253	C16H15NO2	1000197-96-0	38
5		2(3H)-Oxazolethione, 4,5-diphenyl-	253	C15H11NOS	006670-13-9	37



Data Path : Z:\HPCHEM1\BNA F\DATA\BF070716\
Data File : BF088799.D
Acq On : 8 Jul 2016 1:03
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Sample : H3889-02 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

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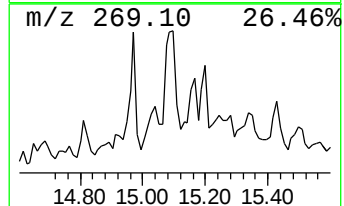
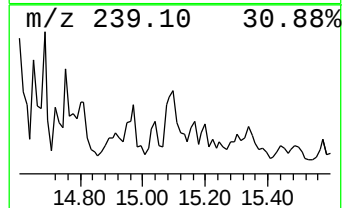
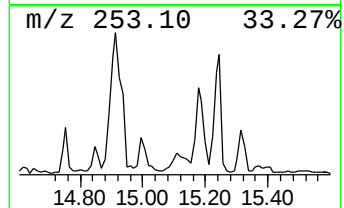
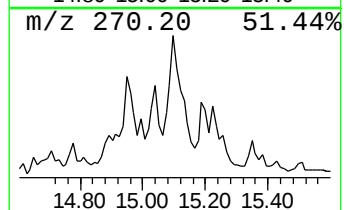
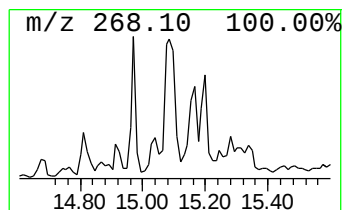
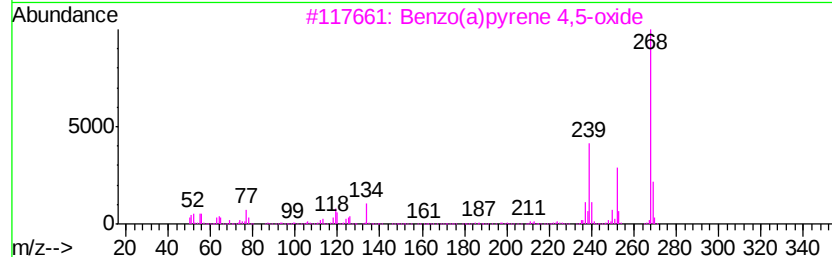
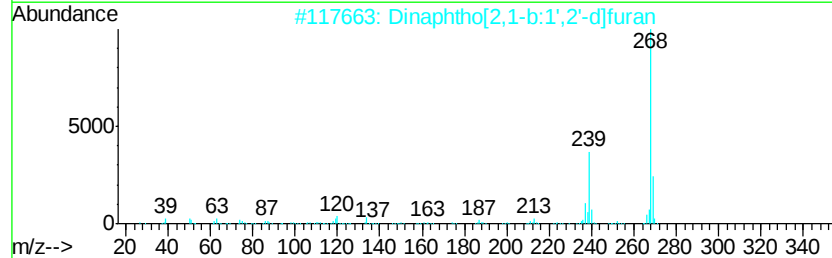
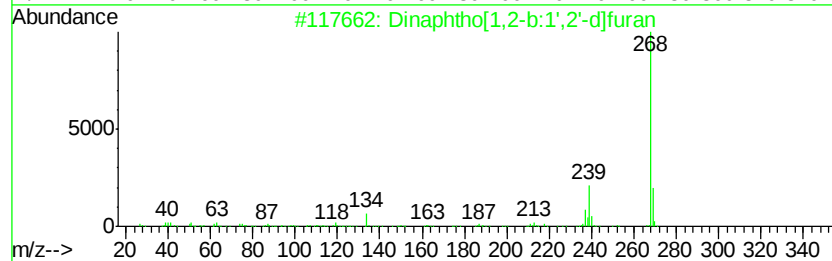
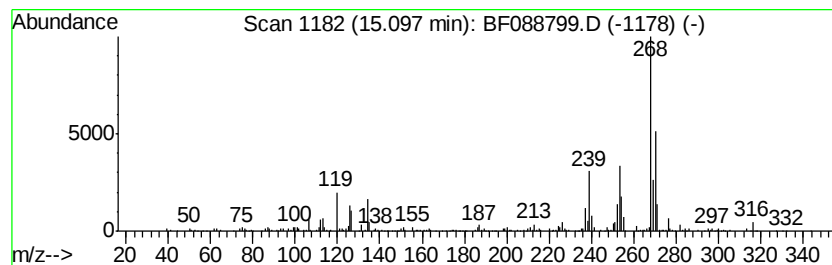
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.10	17.77 ng	419671	Perylene-d12	15.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	90
2		Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	55
3		Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	47
4		3-Methylcholanthrene	268	C21H16	000056-49-5	46
5		3,4-Epoxy-4a-ethyl-2,3,4,4a,5,6-...	268	C17H20N2O	080249-75-8	46



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070716\
Data File : BF088799.D
Acq On : 8 Jul 2016 1:03
Operator : UM/SJ
Sample : H3889-02 5X
Misc :
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ClientSampleId :
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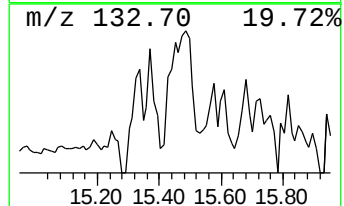
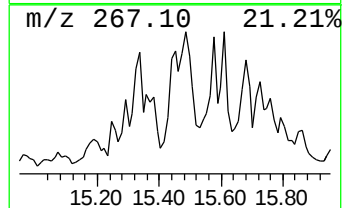
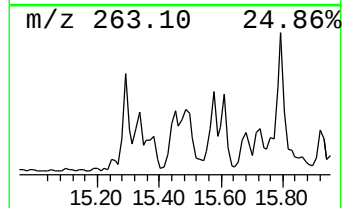
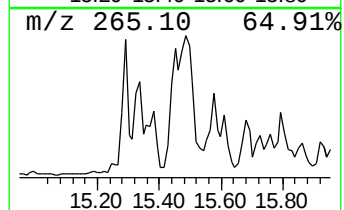
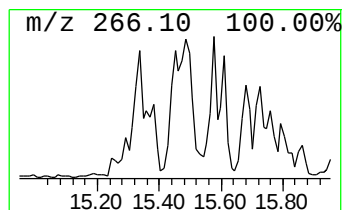
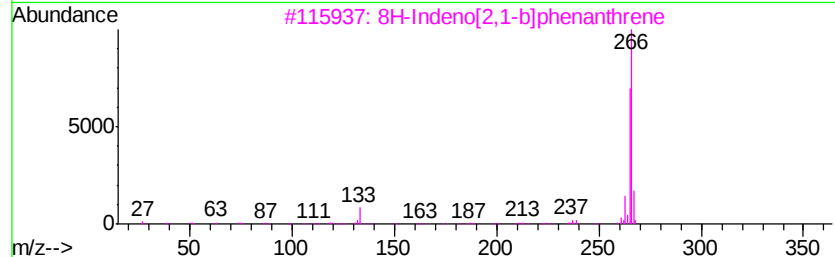
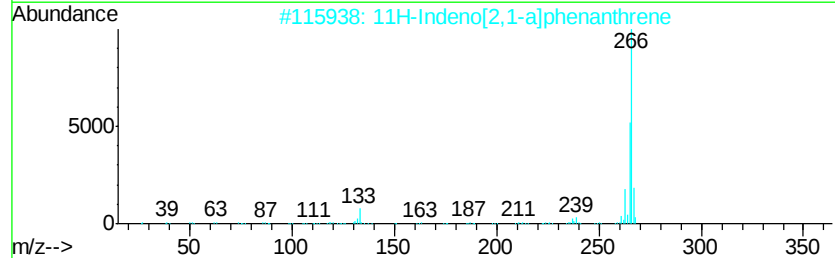
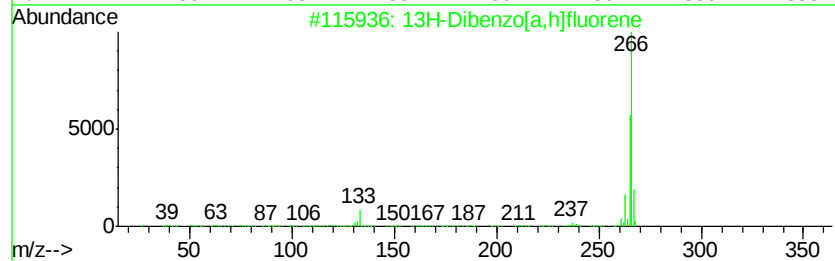
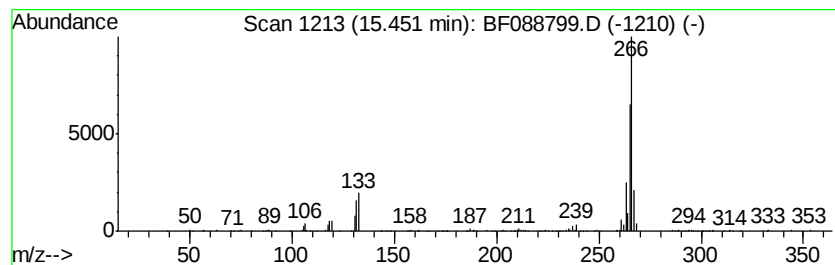
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 13H-Dibenzo[a,h]fluorene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.45	7.84 ng	185088	Perylene-d12	15.29

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	94
2			11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	89
3			8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	76
4			4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	53
5			4,5-Dihydro-3H-dinaphtho[2,1-c:1...	295	C22H17N	1000297-99-2	52



Data Path : Z:\HPCHEM1\BNA F\DATA\BF070716\
Data File : BF088799.D
Acq On : 8 Jul 2016 1:03
Operator : UM/SJ
Sample : H3889-02 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

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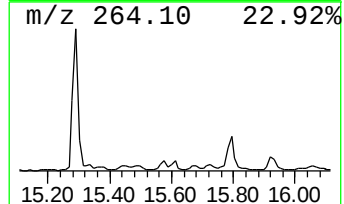
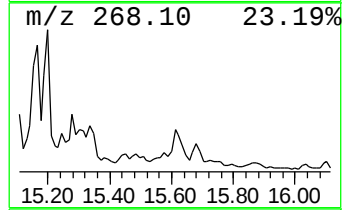
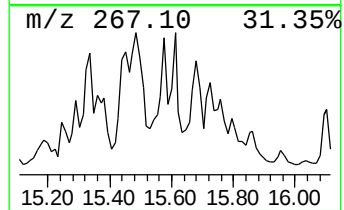
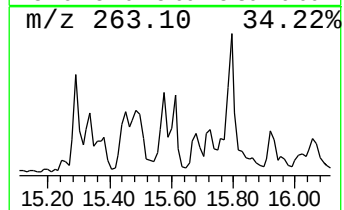
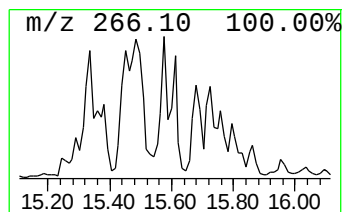
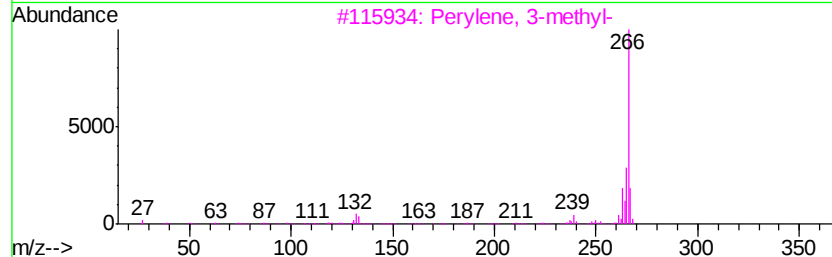
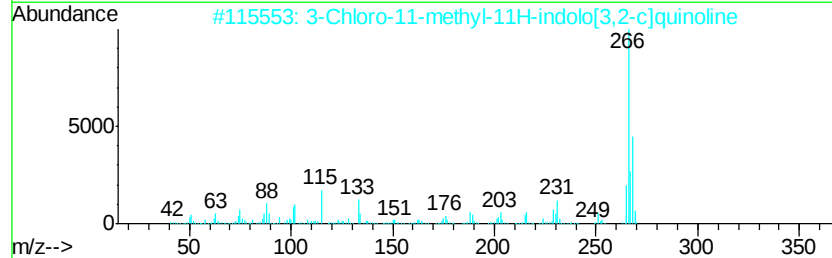
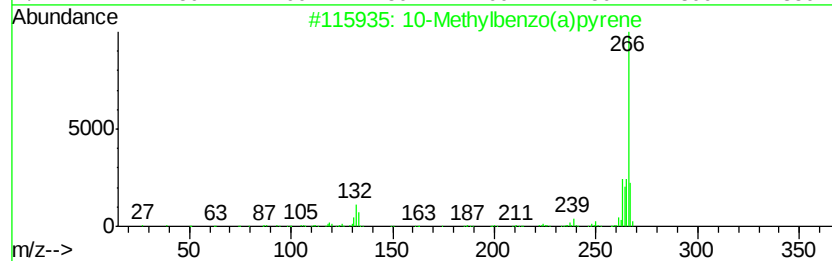
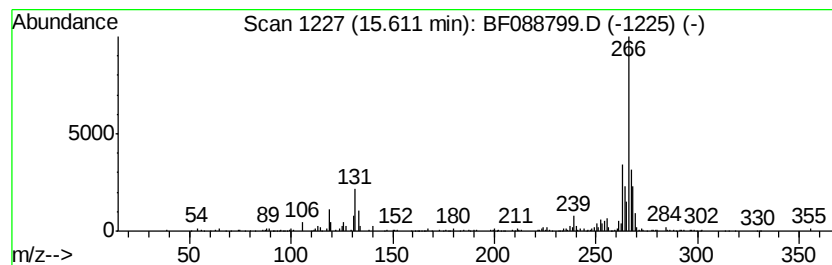
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 10-Methylbenzo(a)pyrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.61	11.71 ng	276538	Perylene-d12	15.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	10-Methylbenzo(a)pyrene	266	C21H14	063104-32-5	50
2		3-Chloro-11-methyl-11H-indolo[3,...	266	C16H11ClN2	155249-46-0	46
3		Perylene, 3-methyl-	266	C21H14	024471-47-4	45
4		11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	43
5		13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	43



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070716\
Data File : BF088799.D
Acq On : 8 Jul 2016 1:03
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Misc :
ALS Vial : 29 Sample Multiplier: 1

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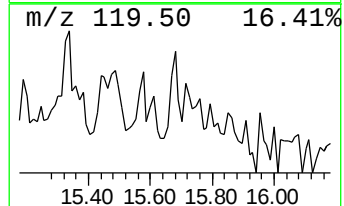
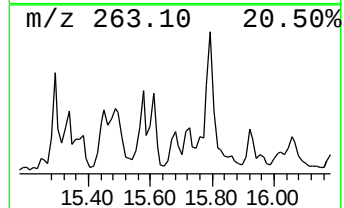
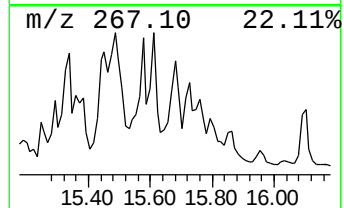
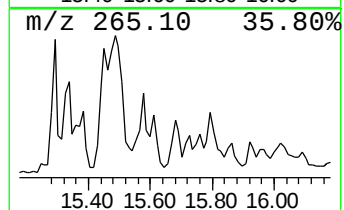
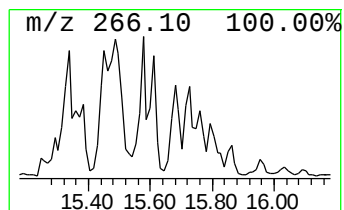
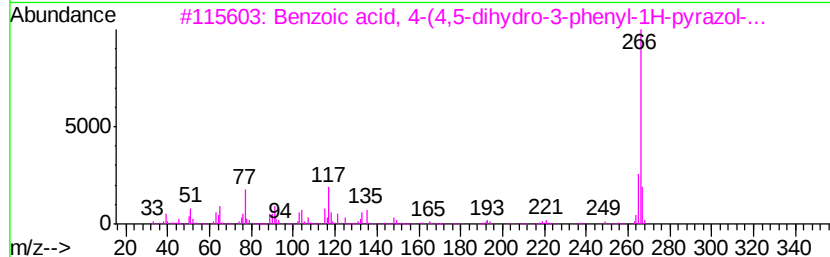
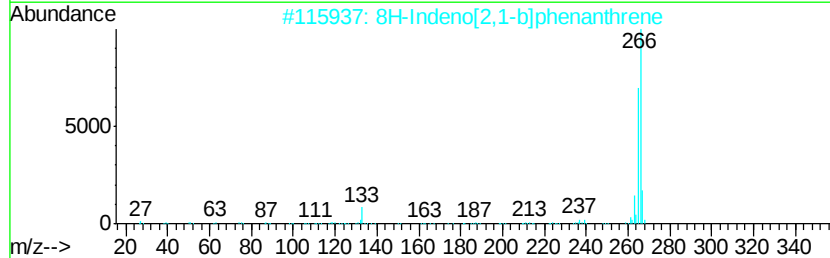
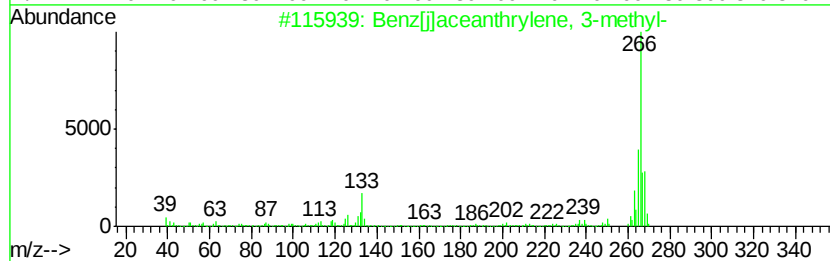
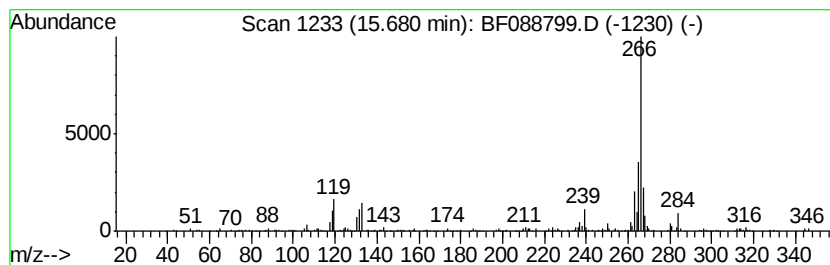
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Benz[j]aceanthrylene, 3-met... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.68	10.33 ng	244027	Perylene-d12	15.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benz[il]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	93
2		8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	62
3		Benzoic acid, 4-(4,5-dihydro-3-p...	266	C16H14N2O2	026192-74-5	59
4		Perylene, 3-methyl-	266	C21H14	024471-47-4	58
5		11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	58



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070716\
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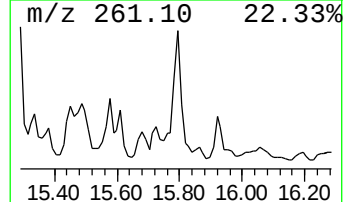
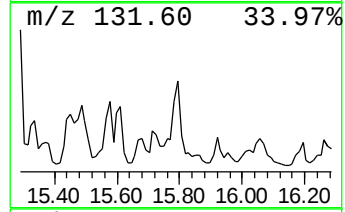
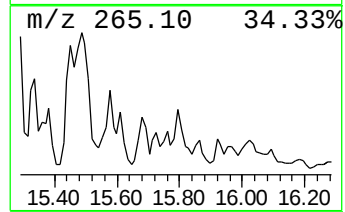
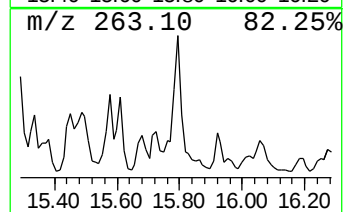
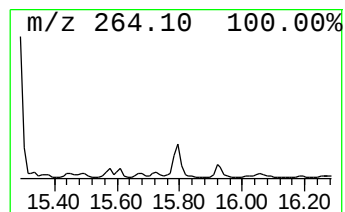
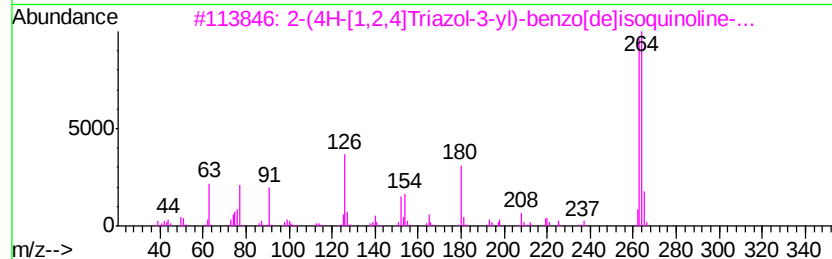
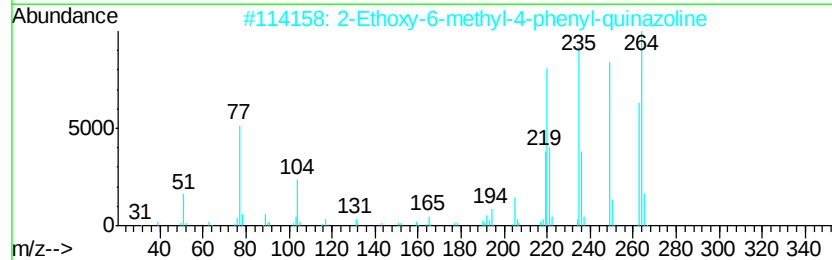
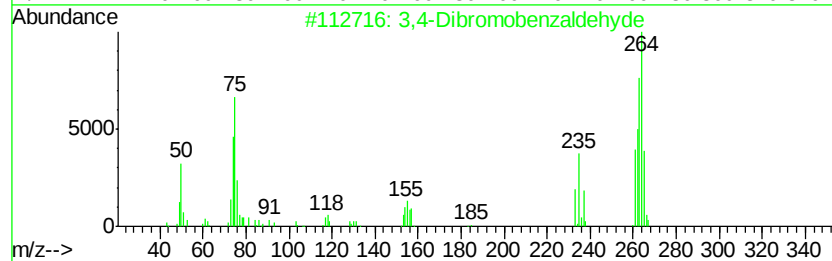
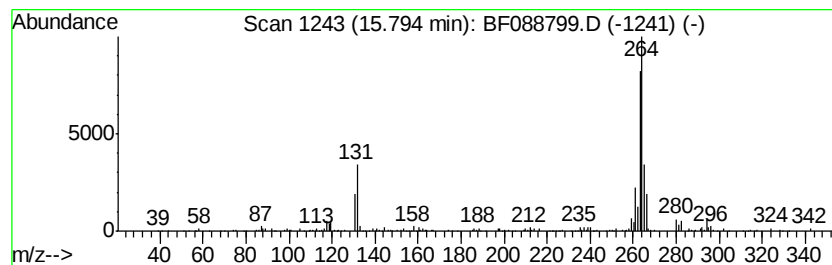
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 3,4-Dibromobenzaldehyde Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.		
15.79	8.94 ng	211071	Perylene-d12	15.29		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		3,4-Dibromobenzaldehyde	262	C7H4Br2O	074003-55-7	72
2		2-Ethoxy-6-methyl-4-phenyl-quina...	264	C17H16N2O	1000318-42-5	50
3		2-(4H-[1,2,4]Triazol-3-yl)-benzo...	264	C14H8N4O2	1000318-09-6	42
4		2-Bromo-5-fluorobenzyl alcohol, ...	318	C13H20BrFOSi	1000364-15-6	35
5		1H-Pyrazole-4-carbonitrile, 3-(4...	263	C12H10ClN3S	068364-67-0	35



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070716\
Data File : BF088799.D
Acq On : 8 Jul 2016 1:03
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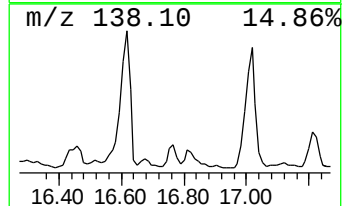
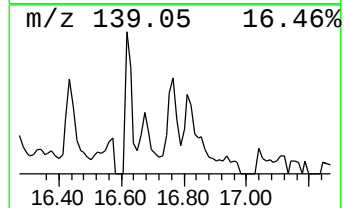
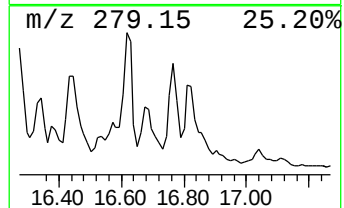
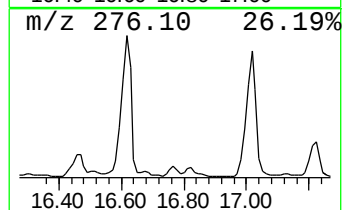
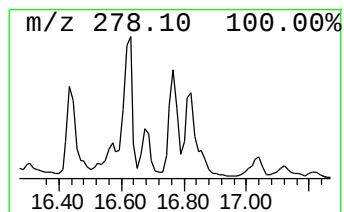
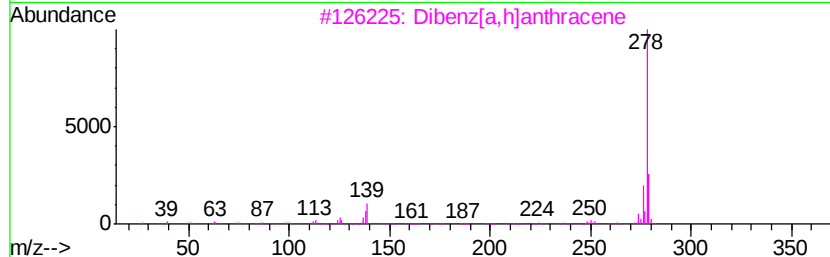
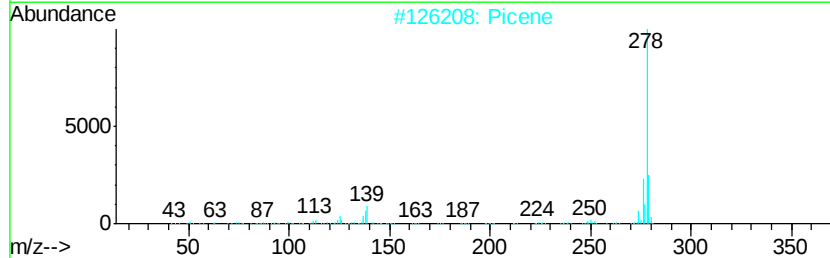
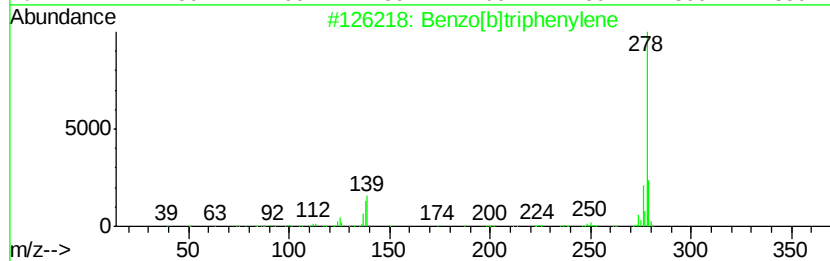
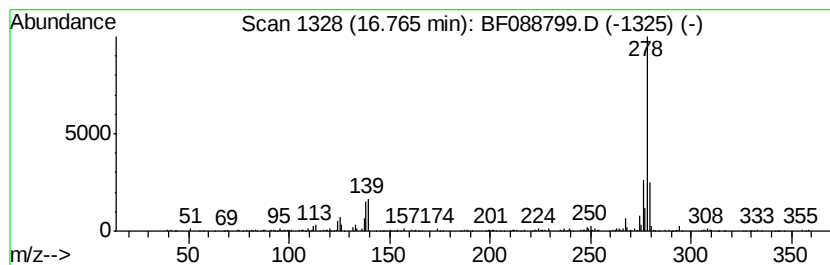
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Benzo[b]triphenylene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.77	10.93 ng	258100	Perylene-d12	15.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
2		Picene	278	C22H14	000213-46-7	98
3		Dibenz[a,h]anthracene	278	C22H14	000053-70-3	97
4		Benzo[b]chrysene	278	C22H14	000214-17-5	97
5		Pentaphene	278	C22H14	000222-93-5	96



Data Path : Z:\HPCHEM1\BNA F\DATA\BF070716\
Data File : BF088799.D
Acq On : 8 Jul 2016 1:03
Operator : UM/SJ
Sample : H3889-02 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-2

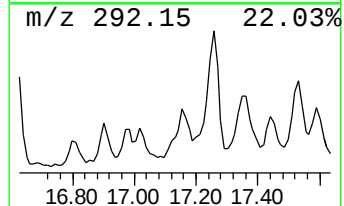
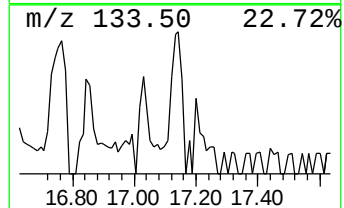
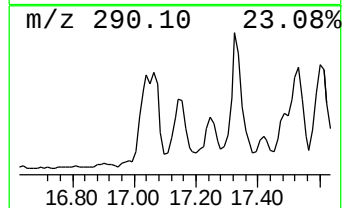
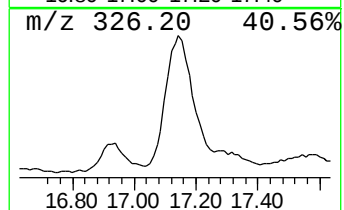
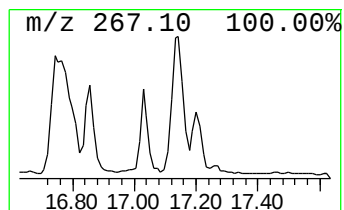
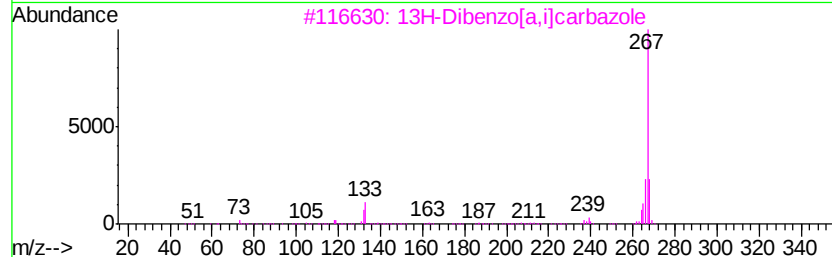
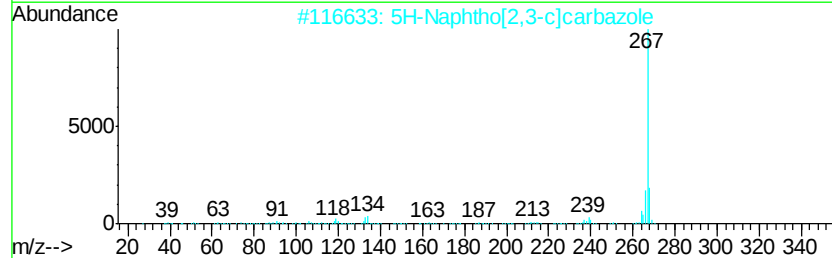
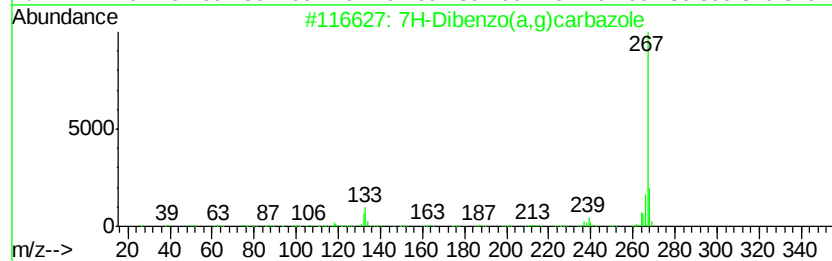
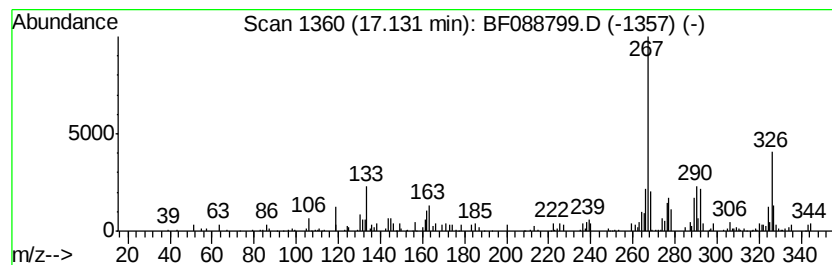
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 7H-Dibenzo(a,g)carbazole Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.13	9.76 ng	230582	Perylene-d12	15.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	7H-Dibenzo(a,g)carbazole	267	C20H13N	000207-84-1	50
2		5H-Naphtho[2,3-c]carbazole	267	C20H13N	000198-96-9	45
3		13H-Dibenzo[a,i]carbazole	267	C20H13N	000239-64-5	45
4		Benzo(a)pyren-6-amine	267	C20H13N	007428-83-3	43
5		5H-Naphtho[2,3-b]carbazole	267	C20H13N	000248-96-4	43



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070716\
Data File : BF088799.D
Acq On : 8 Jul 2016 1:03
Operator : UM/SJ
Sample : H3889-02 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SS-2

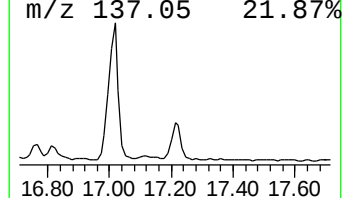
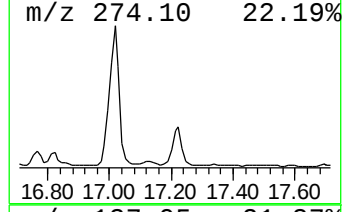
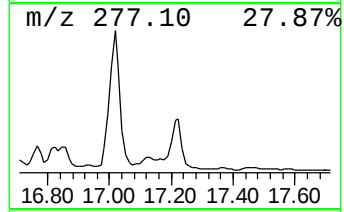
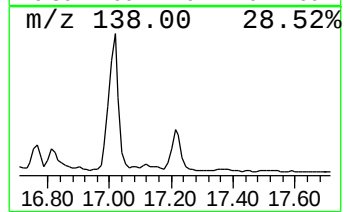
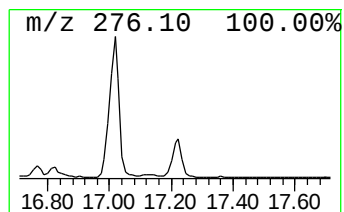
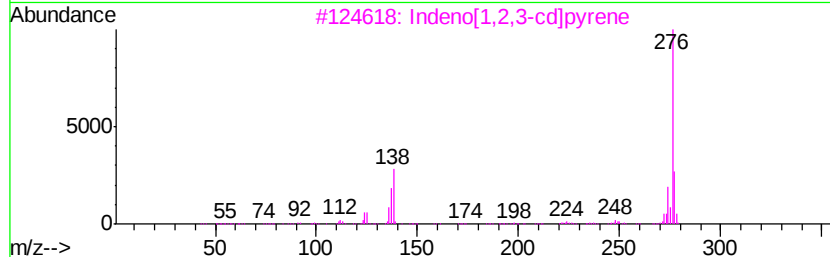
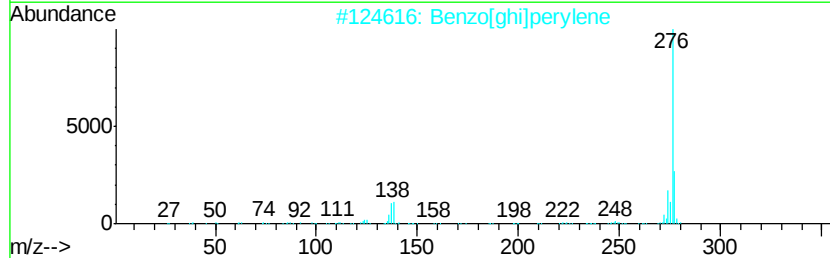
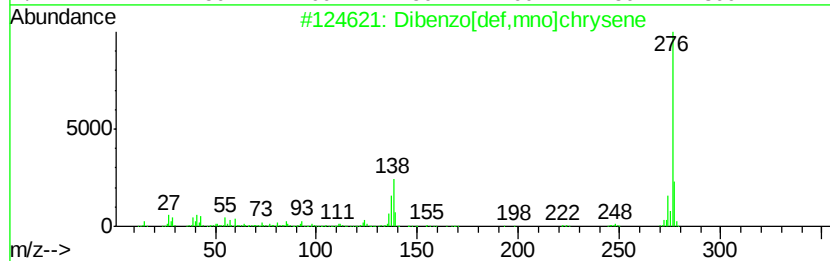
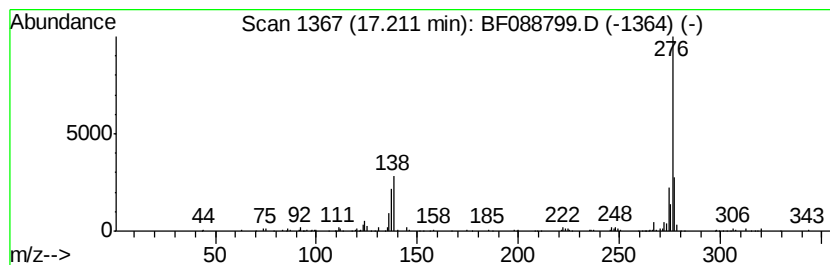
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Dibenzo[def,mno]chrysene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.21	15.83 ng	373896	Perylene-d12	15.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	97
2		Benzo[ghi]perylene	276	C22H12	000191-24-2	95
3		Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	90
4		Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	72
5		1H-Cyclopenta[4,5]pyrido[1,2-a]b...	276	C17H16N4	329707-31-5	47



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070716\
Data File : BF088799.D
Acq On : 8 Jul 2016 1:03
Operator : UM/SJ
Sample : H3889-02 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

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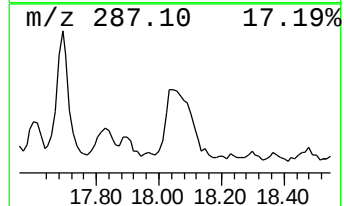
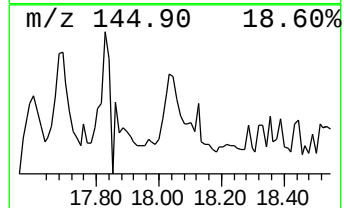
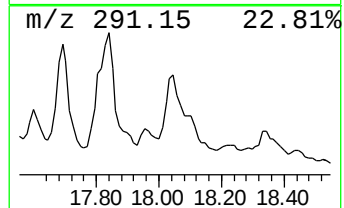
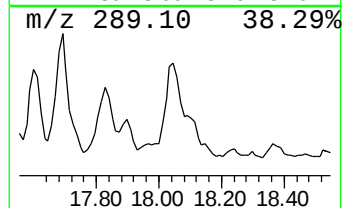
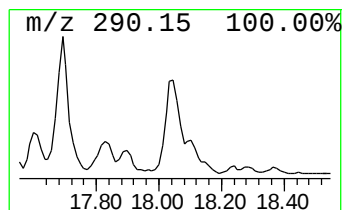
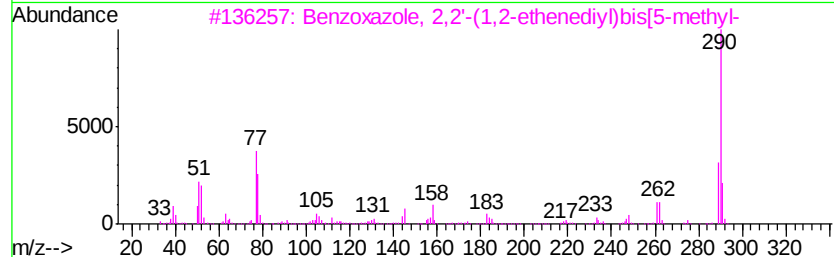
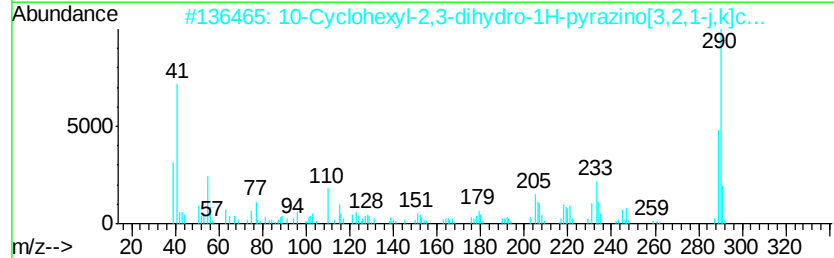
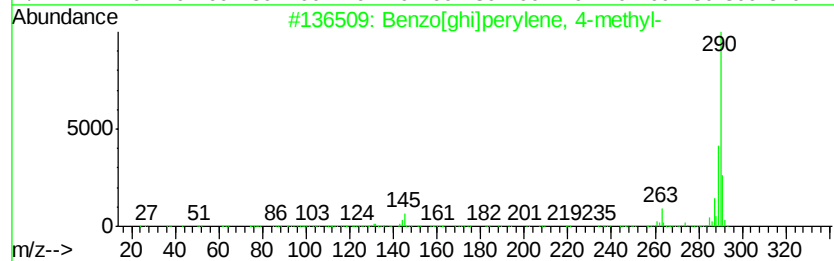
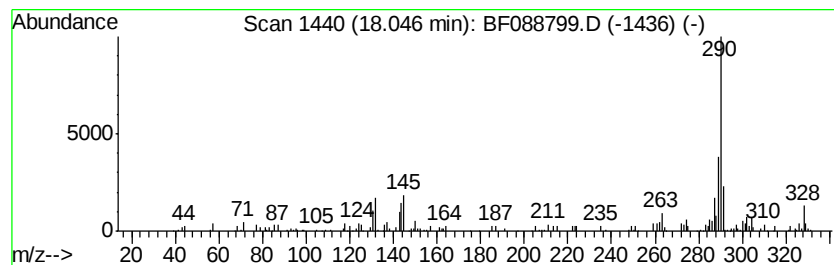
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Benzo[ghi]perylene, 4-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.05	14.61 ng	345158	Perylene-d12	15.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[ghi]perylene, 4-methyl-	290	C23H14	019224-38-5	76
2		10-Cyclohexyl-2,3-dihydro-1H-pyr...	290	C20H22N2	157056-89-8	45
3		Benzoxazole, 2,2'-(1,2-ethenediv...	290	C18H14N2O2	001041-00-5	45
4		Benzo[1,2-b:4,5-b']bis[1]benzoth...	290	C18H10S2	000241-34-9	43
5		Benzo[1,2-b:3,4-b']bis[1]benzoth...	290	C18H10S2	000198-89-0	43



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070716\
Data File : BF088799.D
Acq On : 8 Jul 2016 1:03
Operator : UM/SJ
Sample : H3889-02 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

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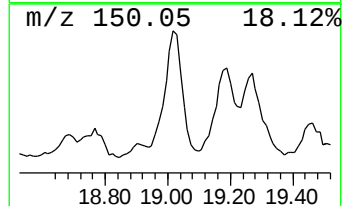
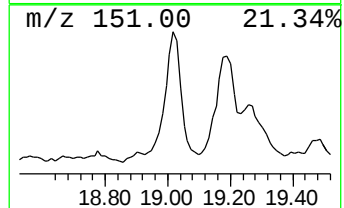
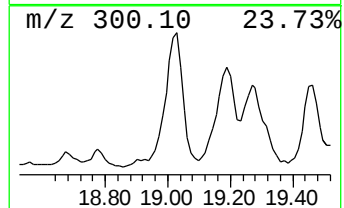
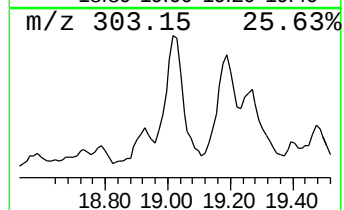
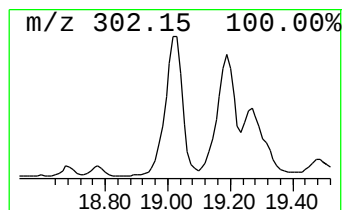
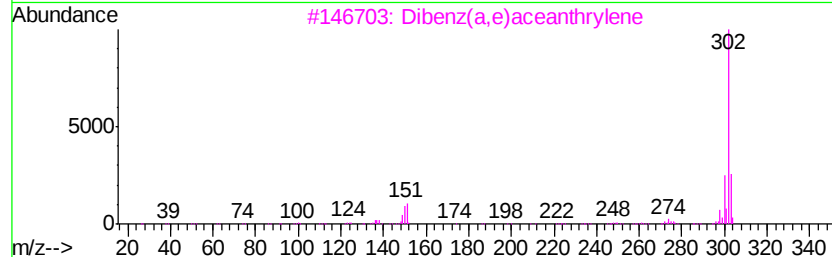
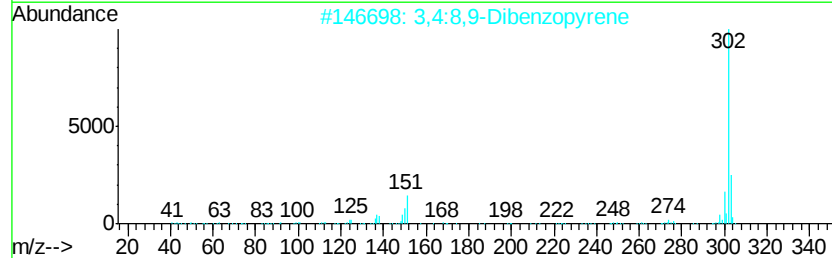
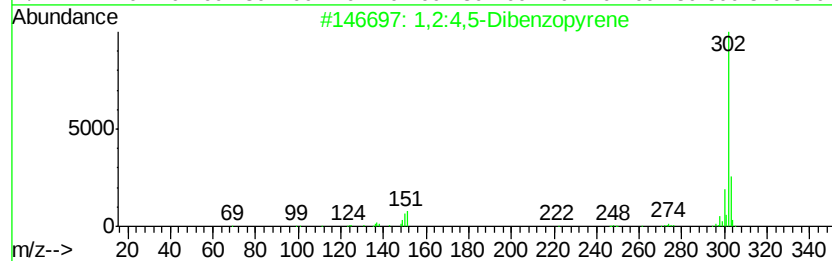
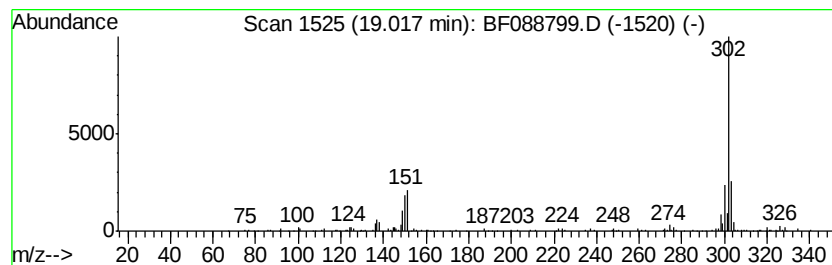
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 1,2:4,5-Dibenzopyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.02	23.31 ng	550531	Perylene-d12	15.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	97
2		3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	96
3		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	95
4		Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	94
5		Dibenzo[fg,op]naphthacene	302	C24H14	000192-51-8	74



Data Path : Z:\HPCHEM1\BNA F\DATA\BF070716\
Data File : BF088799.D
Acq On : 8 Jul 2016 1:03
Operator : UM/SJ
Sample : H3889-02 5X
Misc :
ALS Vial : 29 Sample Multiplier: 1

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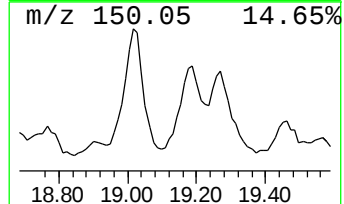
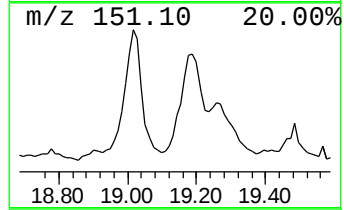
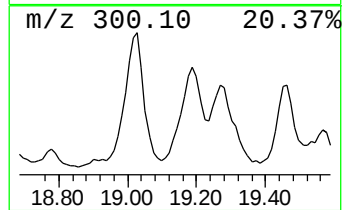
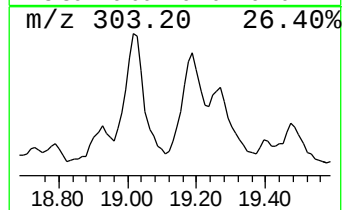
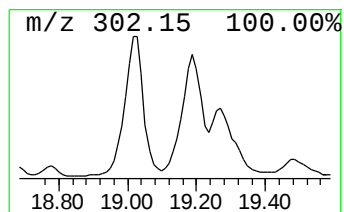
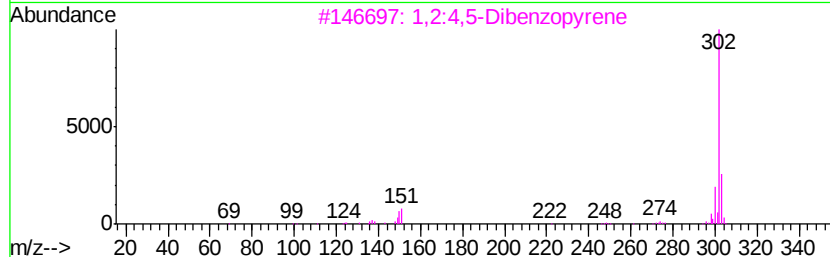
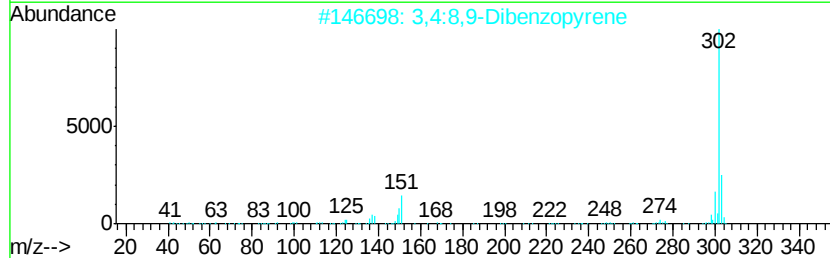
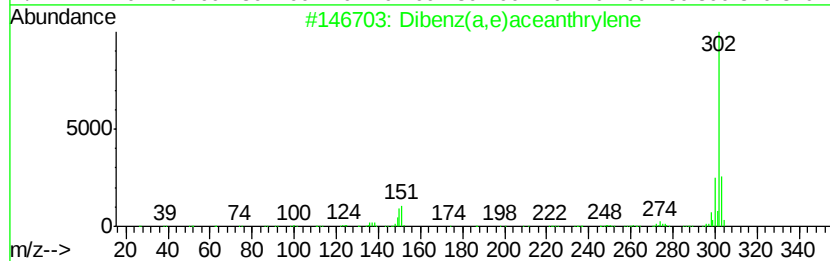
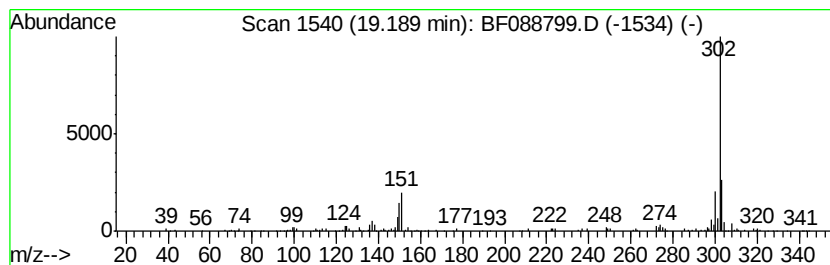
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Dibenz(a,e)aceanthrylene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.19	16.35 ng	386273	Perylene-d12	15.29

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	96
2		3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	96
3		1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	95
4		Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	93
5		1,2,9,10-Dibenzopyrene	302	C24H14	000191-30-0	86



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF070716\
 Data File : BF088799.D
 Acq On : 8 Jul 2016 1:03
 Operator : UM/SJ
 Sample : H3889-02 5X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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
Propanoic acid, 3...	12.23	34.5	ng	1135220	4	11.26	658180	20.0
Benz(a)anthracene...	14.65	7.4	ng	175451	6	15.29	472402	20.0
Benz[a]anthracene...	14.69	11.2	ng	263823	6	15.29	472402	20.0
unknown14.75	14.75	9.7	ng	228424	6	15.29	472402	20.0
Dinaphtho[1,2-b:1...	15.10	17.8	ng	419671	6	15.29	472402	20.0
13H-Dibenzo[a,h]f...	15.45	7.8	ng	185088	6	15.29	472402	20.0
10-Methylbenzo(a)...	15.61	11.7	ng	276538	6	15.29	472402	20.0
Benz[j]aceanthryl...	15.68	10.3	ng	244027	6	15.29	472402	20.0
3,4-Dibromobenzal...	15.79	8.9	ng	211071	6	15.29	472402	20.0
Benzo[b]triphenylene	16.77	10.9	ng	258100	6	15.29	472402	20.0
7H-Dibenzo(a,g)ca...	17.13	9.8	ng	230582	6	15.29	472402	20.0
Dibenzo[def,mno]c...	17.21	15.8	ng	373896	6	15.29	472402	20.0
Benzo[ghi]perylene...	18.05	14.6	ng	345158	6	15.29	472402	20.0
1,2:4,5-Dibenzopy...	19.02	23.3	ng	550531	6	15.29	472402	20.0
Dibenz(a,e)aceant...	19.19	16.4	ng	386273	6	15.29	472402	20.0