

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
 Data File : BF091568.D
 Acq On : 13 Dec 2016 21:47
 Operator : UM/SJ
 Sample : H5994-04
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-49(6-8)-12-9-16

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-BF120916.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.001	252	255	264	rBV	2434627	3702492	23.34%	1.466%
2	5.424	289	292	295	rBV	6720683	8795155	55.45%	3.482%
3	6.464	379	383	385	rBV	7340558	10174940	64.15%	4.028%
4	6.590	391	394	396	rBV	8037347	9707954	61.20%	3.843%
5	6.807	411	413	415	rBV	1544145	1841335	11.61%	0.729%
6	6.967	425	427	430	rBV	6030116	6638145	41.85%	2.628%
7	7.379	460	463	465	rVB	5318709	5571001	35.12%	2.205%
8	8.099	523	526	530	rBV2	2913114	3670586	23.14%	1.453%
9	8.807	586	588	590	rVB	787009	704131	4.44%	0.279%
10	8.910	594	597	599	rVB	569260	512231	3.23%	0.203%
11	9.173	617	620	623	rVB	7178421	9510876	59.96%	3.765%
12	9.367	635	637	640	rVB	450216	440138	2.77%	0.174%
13	9.505	647	649	651	rBV	423877	589644	3.72%	0.233%
14	9.573	653	655	657	rVV	1155346	1110499	7.00%	0.440%
15	9.848	675	679	681	rBV	2775759	3055104	19.26%	1.209%
16	9.882	681	682	684	rVV	3326174	2548690	16.07%	1.009%
17	10.008	691	693	695	rBV2	644873	621087	3.92%	0.246%
18	10.053	695	697	699	rVB	1762011	1498829	9.45%	0.593%
19	10.259	712	715	720	rBV4	247603	558688	3.52%	0.221%
20	10.396	725	727	729	rBV	3088092	2676279	16.87%	1.059%
21	10.476	729	734	736	rBV3	605743	1658100	10.45%	0.656%
22	10.556	740	741	743	rVB	477293	426729	2.69%	0.169%
23	10.636	745	748	750	rVV	4783152	5616392	35.41%	2.223%
24	10.762	754	759	762	rBV2	432674	638201	4.02%	0.253%
25	10.945	771	775	776	rBV2	688170	1228535	7.75%	0.486%
26	10.968	776	777	779	rVV2	633876	646658	4.08%	0.256%
27	11.025	780	782	783	rVB	504830	457717	2.89%	0.181%
28	11.070	783	786	787	rBV2	214799	443001	2.79%	0.175%
29	11.196	794	797	798	rBV2	651588	1101853	6.95%	0.436%
30	11.230	798	800	803	rVB	1067166	1266926	7.99%	0.502%
31	11.368	806	812	813	rBV2	11199022	15861704	100.00%	6.279%
32	11.413	813	816	817	rVV	4875075	4823146	30.41%	1.909%
33	11.436	817	818	820	rVV2	621025	637641	4.02%	0.252%
34	11.562	826	829	831	rBV	1812893	1903064	12.00%	0.753%

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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.631	833	835	836 rBV	616102	561008	3.54%	0.222%
36	11.665	836	838	839 rVV	464838	502317	3.17%	0.199%
37	11.745	843	845	847 rVB	431278	423418	2.67%	0.168%
38	11.836	850	853	854 rBV	3211759	3227561	20.35%	1.278%
39	11.859	854	855	857 rVB	3153397	3385427	21.34%	1.340%
40	11.905	857	859	861 rBV	1172701	1454260	9.17%	0.576%
41	11.951	861	863	867 rVB2	3845701	6661078	41.99%	2.637%
42	12.031	867	870	872 rBV4	203218	517716	3.26%	0.205%
43	12.133	874	879	882 rBV3	1255575	2599089	16.39%	1.029%
44	12.282	889	892	893 rBV2	624809	1021397	6.44%	0.404%
45	12.305	893	894	895 rVV	606230	525065	3.31%	0.208%
46	12.385	898	901	902 rBV	1769028	2035597	12.83%	0.806%
47	12.419	902	904	907 rVB	1243507	1896391	11.96%	0.751%
48	12.476	907	909	913 rBV3	709148	1311156	8.27%	0.519%
49	12.556	913	916	918 rVV	8243073	11250756	70.93%	4.454%
50	12.602	918	920	924 rVB4	392084	950557	5.99%	0.376%
51	12.694	924	928	930 rBV2	456708	872959	5.50%	0.346%
52	12.785	932	936	938 rVV2	8372725	13835223	87.22%	5.477%
53	12.819	938	939	942 rVB2	801941	998414	6.29%	0.395%
54	12.888	942	945	946 rBV	801958	957132	6.03%	0.379%
55	12.922	946	948	950 rVB	6750178	6998313	44.12%	2.771%
56	12.991	950	954	958 rVB3	1149443	1788064	11.27%	0.708%
57	13.105	958	964	965 rVB	1774877	3907100	24.63%	1.547%
58	13.162	967	969	971 rVV	1751646	2036077	12.84%	0.806%
59	13.208	971	973	976 rVV2	1258450	2466875	15.55%	0.977%
60	13.299	979	981	982 rVV	750844	1022624	6.45%	0.405%
61	13.322	982	983	985 rVB	1330263	1143225	7.21%	0.453%
62	13.402	988	990	993 rVB3	970011	1015175	6.40%	0.402%
63	13.528	993	1001	1004 rBV2	450073	1768457	11.15%	0.700%
64	13.596	1004	1007	1010 rBV2	577923	1493412	9.42%	0.591%
65	13.711	1015	1017	1019 rBV	822685	1511690	9.53%	0.598%
66	13.745	1019	1020	1021 rVV	1183618	991505	6.25%	0.393%
67	13.768	1021	1022	1024 rVV2	647204	824203	5.20%	0.326%
68	13.814	1024	1026	1029 rVB	893920	934101	5.89%	0.370%
69	13.962	1035	1039	1041 rBV2	5175868	9094186	57.33%	3.600%
70	13.996	1041	1042	1045 rVB	4950904	4171242	26.30%	1.651%
71	14.076	1045	1049	1050 rBV2	918255	1277157	8.05%	0.506%

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72	14.191	1057	1059	1060	rBV2	355020	418495	2.64%	0.166%
73	14.282	1065	1067	1069	rVV3	335405	579588	3.65%	0.229%
74	14.317	1069	1070	1071	rVV	474312	475511	3.00%	0.188%
75	14.351	1071	1073	1075	rVV	1612468	2088557	13.17%	0.827%
76	14.385	1075	1076	1078	rVV	1006050	902828	5.69%	0.357%
77	14.442	1078	1081	1083	rVV2	970202	1766253	11.14%	0.699%
78	14.499	1083	1086	1087	rVV2	895864	1618877	10.21%	0.641%
79	14.545	1087	1090	1093	rVB2	504400	838558	5.29%	0.332%
80	14.648	1097	1099	1101	rBV2	351393	587665	3.70%	0.233%
81	14.831	1111	1115	1118	rBV	397731	854054	5.38%	0.338%
82	14.991	1125	1129	1133	rBV	3478170	7892945	49.76%	3.125%
83	15.082	1135	1137	1139	rVB	1003899	995632	6.28%	0.394%
84	15.185	1142	1146	1147	rBV2	252260	563665	3.55%	0.223%
85	15.219	1147	1149	1151	rVV2	288179	488216	3.08%	0.193%
86	15.265	1151	1153	1156	rVV	2085507	3380750	21.31%	1.338%
87	15.334	1156	1159	1161	rVB	3765385	4713599	29.72%	1.866%
88	15.391	1161	1164	1165	rBV	1148862	1934980	12.20%	0.766%
89	15.414	1165	1166	1169	rVB2	1261412	1414698	8.92%	0.560%
90	15.905	1208	1209	1214	rVB2	373007	507780	3.20%	0.201%
91	16.442	1254	1256	1264	rVB4	226589	608482	3.84%	0.241%
92	16.602	1264	1270	1273	rBV3	309574	1132709	7.14%	0.448%
93	16.762	1280	1284	1287	rVB	1639222	3112988	19.63%	1.232%
94	16.922	1294	1298	1300	rBV	360772	779718	4.92%	0.309%
95	16.968	1300	1302	1305	rBV2	251212	454733	2.87%	0.180%
96	17.174	1315	1320	1328	rBV	1294048	2959001	18.66%	1.171%
97	17.380	1335	1338	1346	rVB	423866	1060149	6.68%	0.420%
98	18.260	1410	1415	1422	rVB5	90321	419931	2.65%	0.166%
99	19.266	1496	1503	1511	rVB	277566	1159908	7.31%	0.459%
100	19.437	1511	1518	1522	rBV	189521	823132	5.19%	0.326%

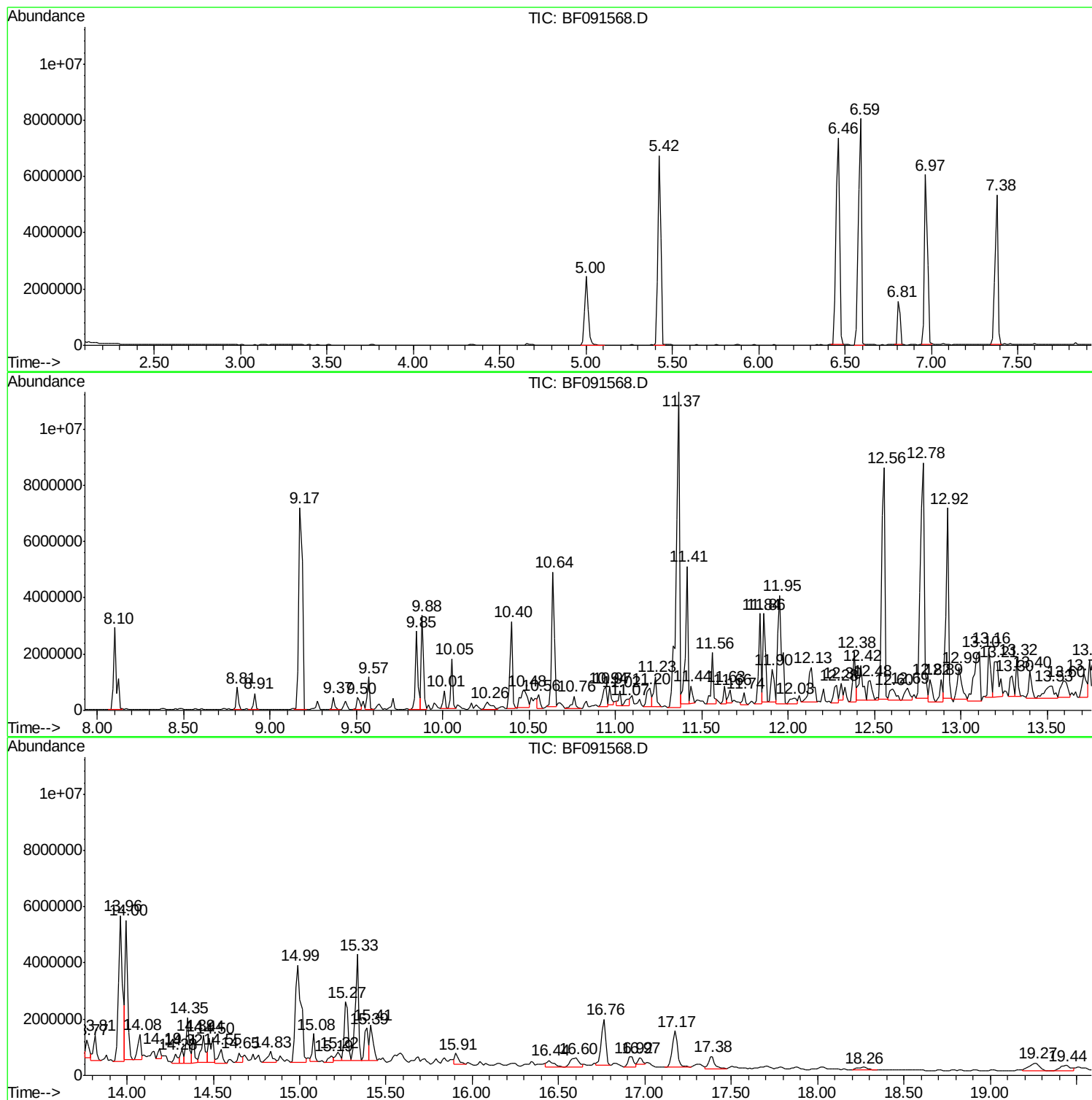
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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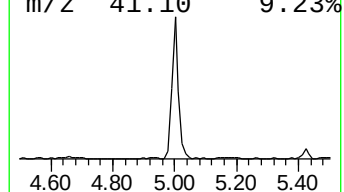
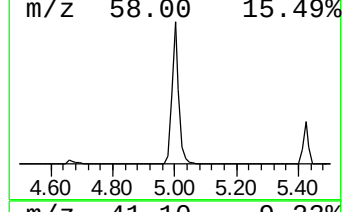
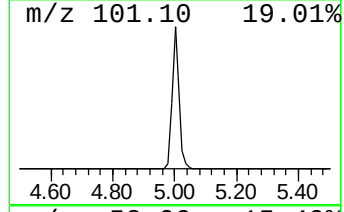
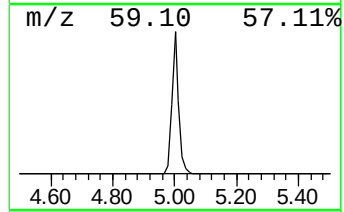
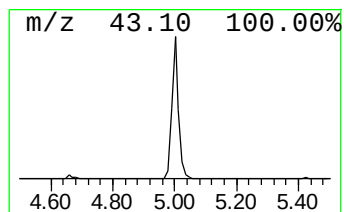
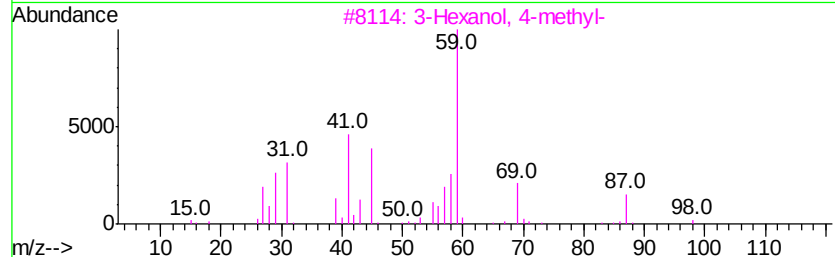
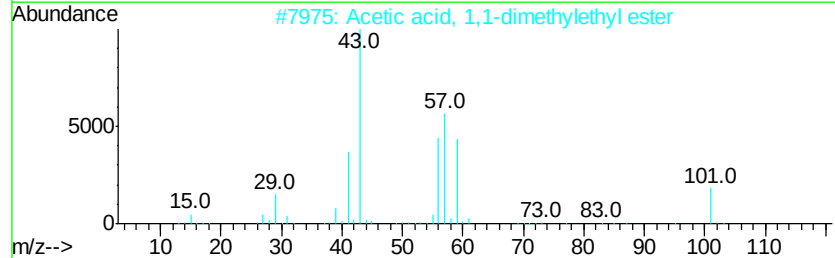
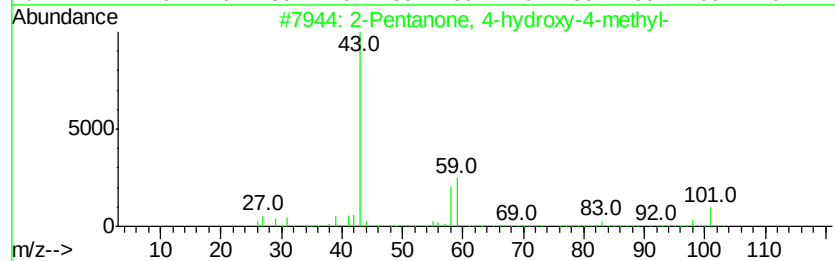
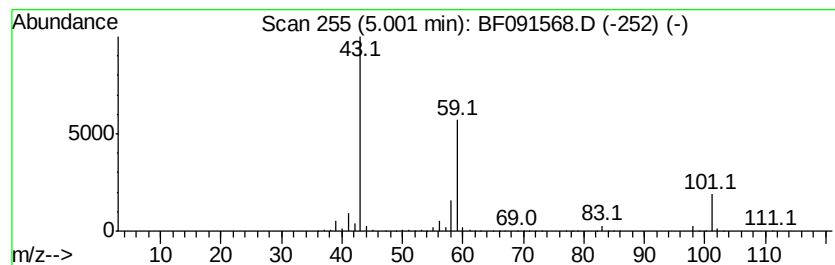
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.00	40.22 ng	3702490	1,4-Dichlorobenzene-d4	6.81

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2		Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3		3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4		Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
5		1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10



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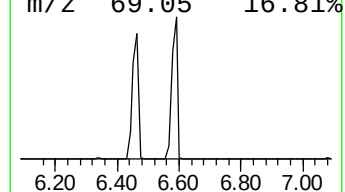
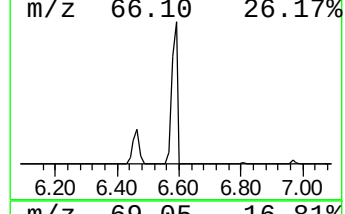
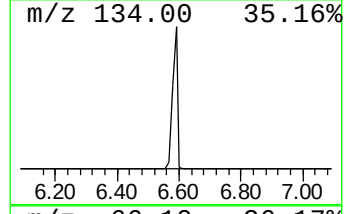
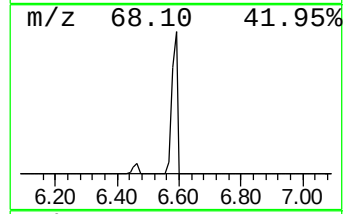
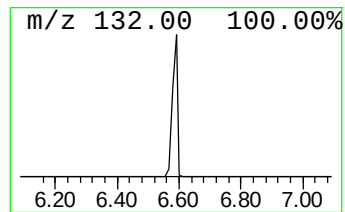
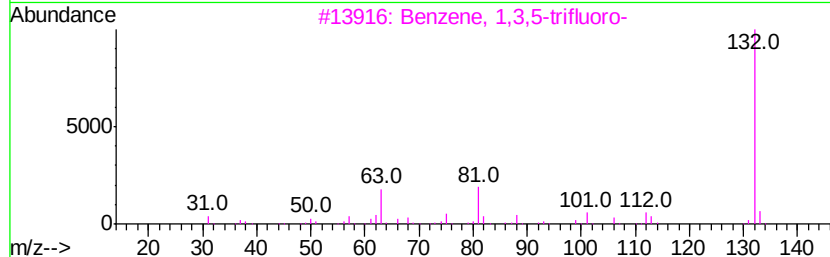
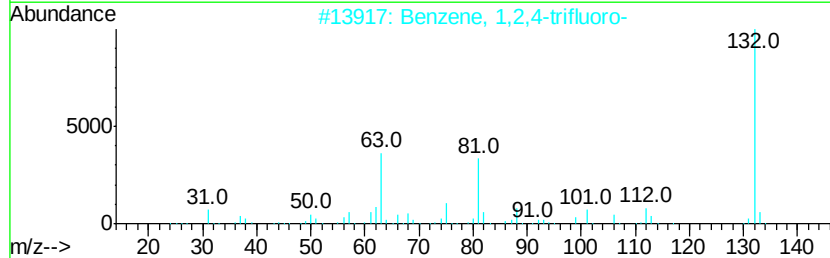
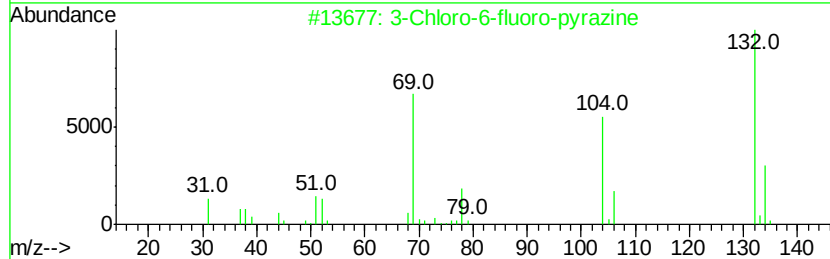
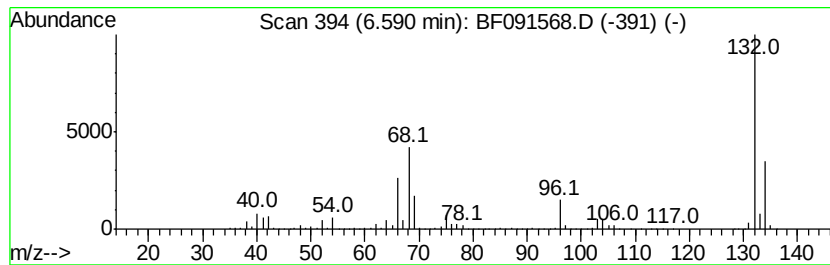
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 unknown6.59 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.59	105.45 ng	9707950	1,4-Dichlorobenzene-d4	6.81

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2		Benzene, 1,2,4-trifluoro-	132	C6H3F3	000367-23-7	9
3		Benzene, 1,3,5-trifluoro-	132	C6H3F3	000372-38-3	9
4		Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5		Xenon	132	Xe	007440-63-3	9



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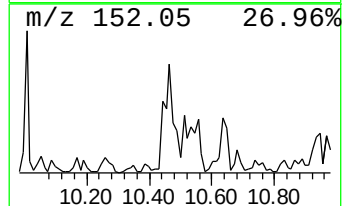
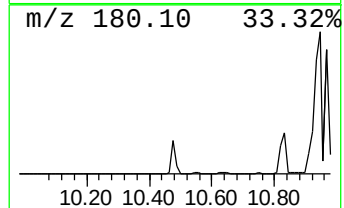
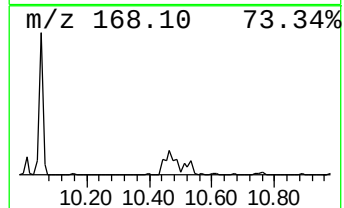
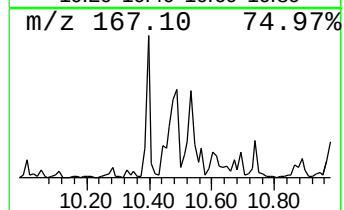
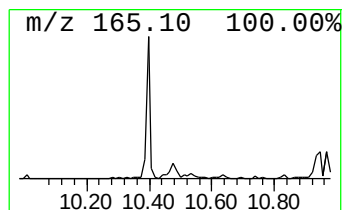
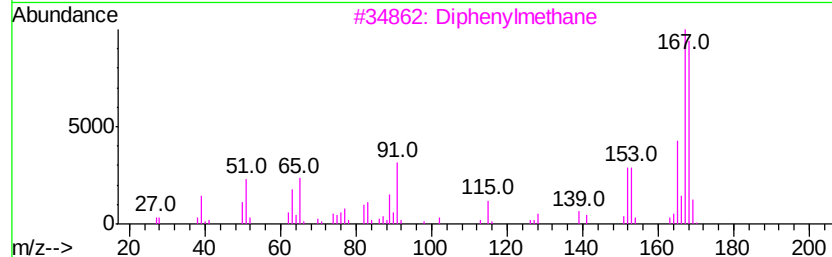
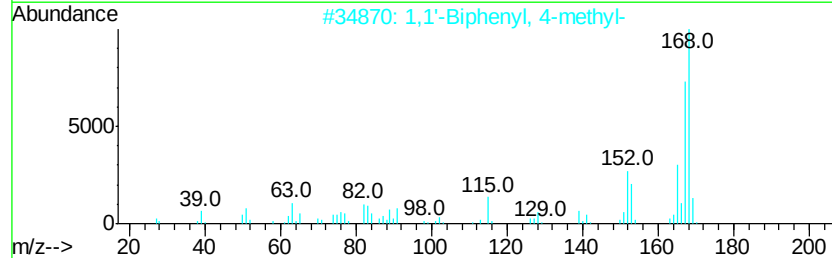
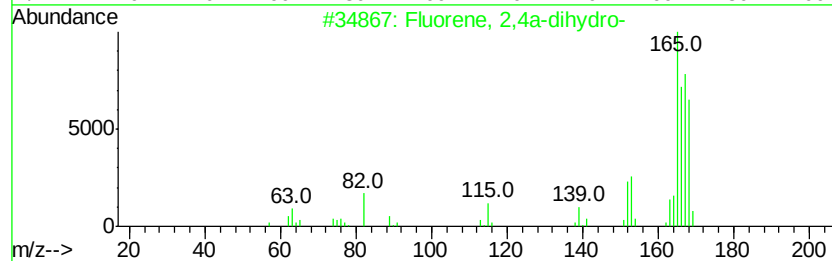
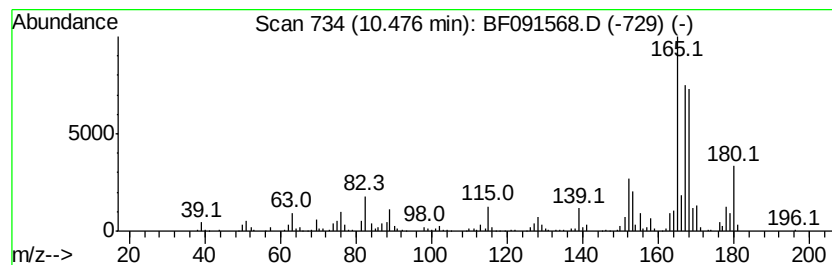
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Peak Number 4 Fluorene, 2,4a-dihydro- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD		R.T.	
10.48	10.85 ng	1658100	Acenaphthene-d10		9.85	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Fluorene, 2,4a-dihydro-	168	C13H12	059247-36-8	92
2		1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	91
3		Diphenylmethane	168	C13H12	000101-81-5	64
4		1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	55
5		Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	55



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091568.D
Acq On : 13 Dec 2016 21:47
Operator : UM/SJ
Sample : H5994-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

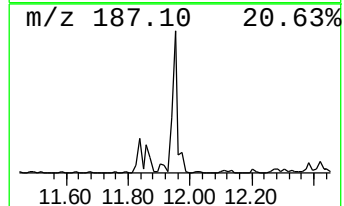
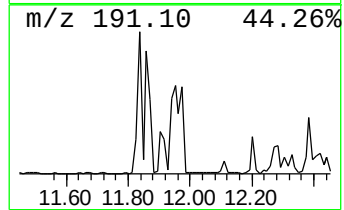
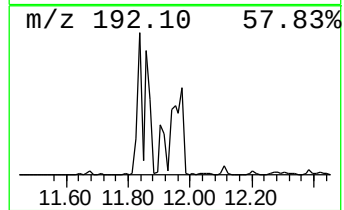
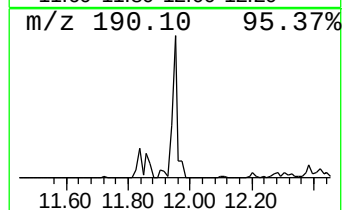
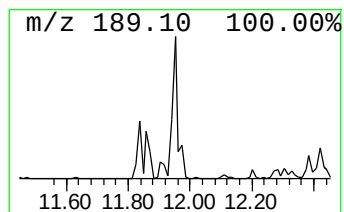
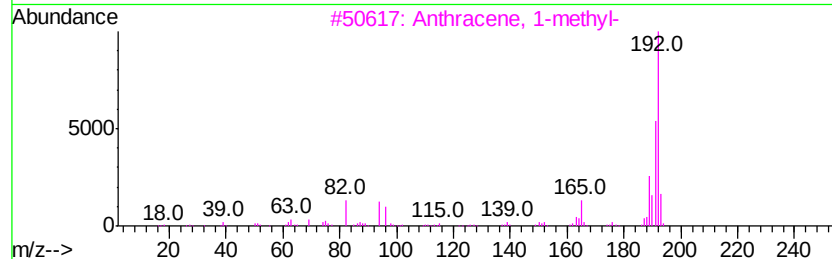
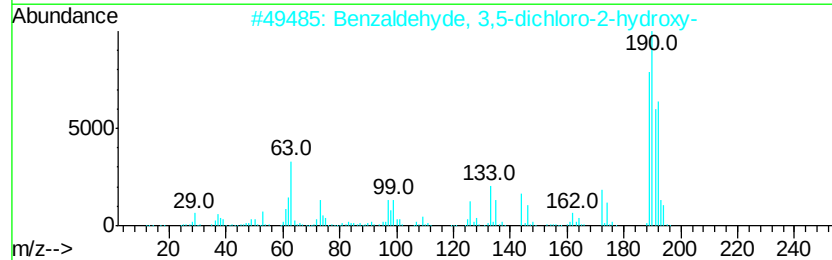
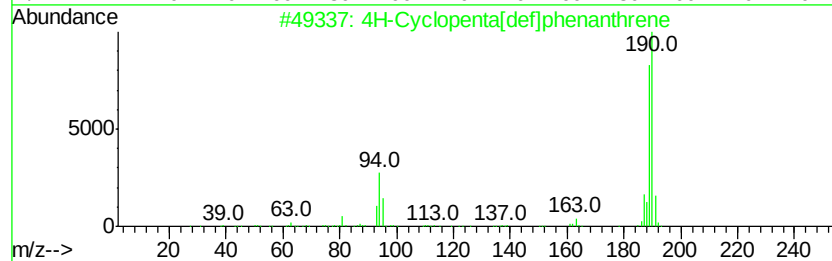
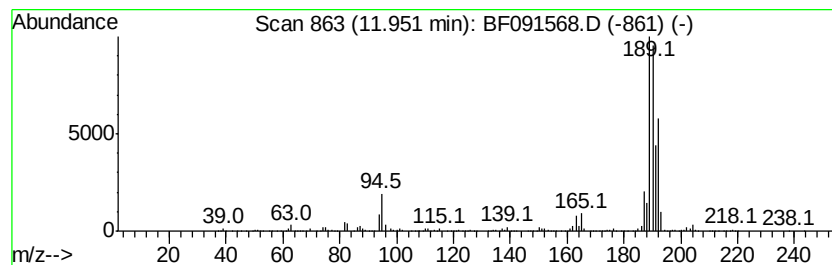
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ClientSampleId :
SB-49(6-8)-12-9-16

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	8.40 ng	6661080	Phenanthrene-d10	11.33
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		4H-Cyclopenta[def]phenanthrene	190 C15H10	000203-64-5 93
2		Benzaldehyde, 3,5-dichloro-2-hyd...	190 C7H4Cl2O2	000090-60-8 50
3		Anthracene, 1-methyl-	192 C15H12	000610-48-0 25
4		1H-Indene, 2-phenyl-	192 C15H12	004505-48-0 25
5		Phenanthrene, 4-methyl-	192 C15H12	000832-64-4 20



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091568.D
Acq On : 13 Dec 2016 21:47
Operator : UM/SJ
Sample : H5994-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

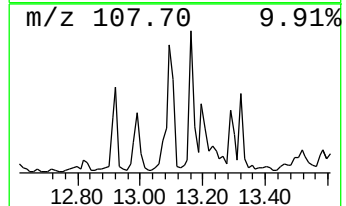
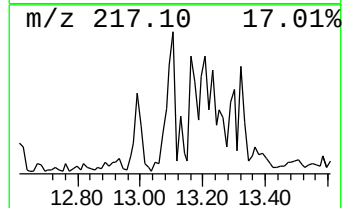
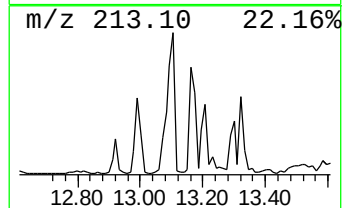
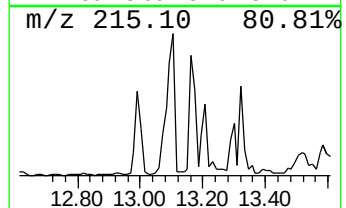
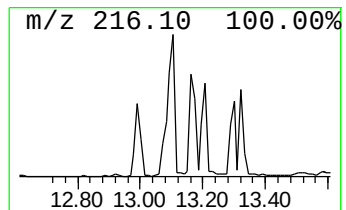
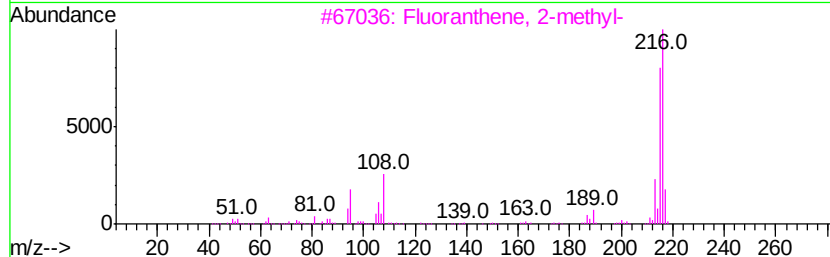
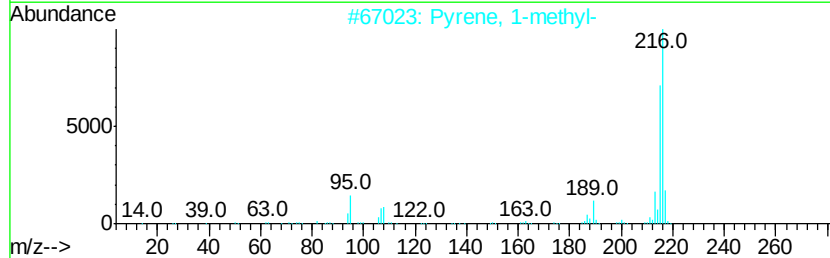
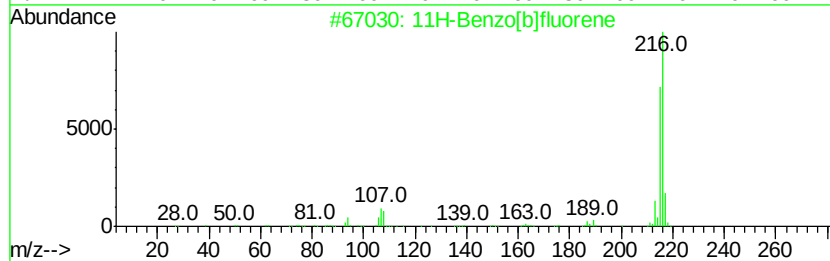
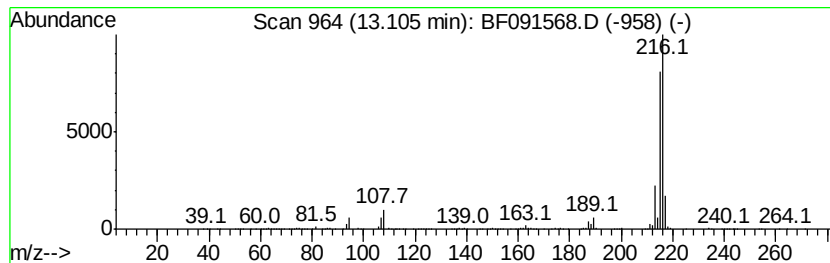
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 11H-Benzo[b]fluorene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.11	8.59 ng	3907100	Chrysene-d12	13.97	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	64



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091568.D
Acq On : 13 Dec 2016 21:47
Operator : UM/SJ
Sample : H5994-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

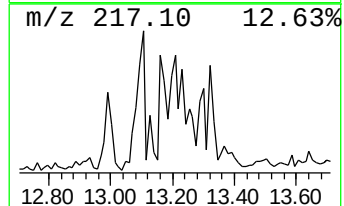
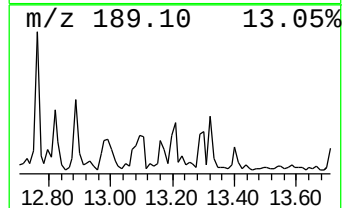
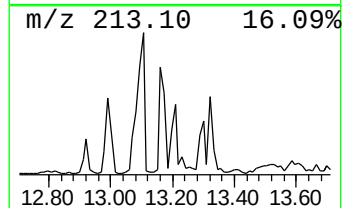
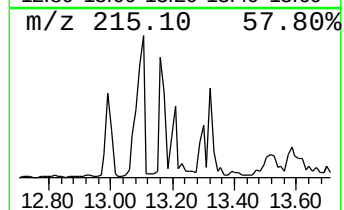
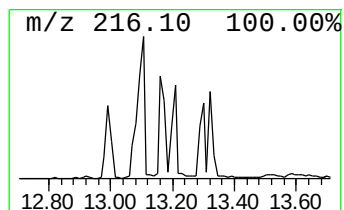
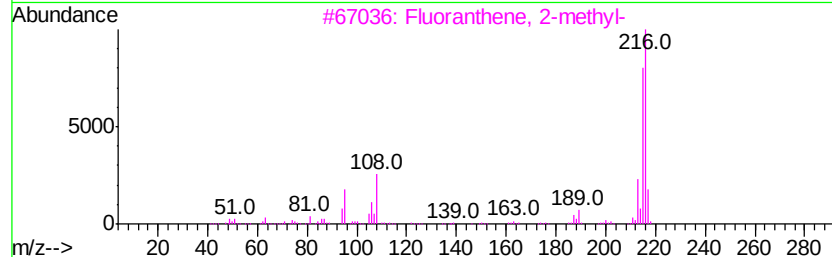
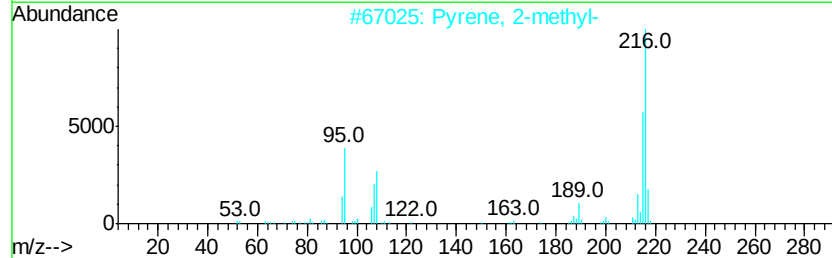
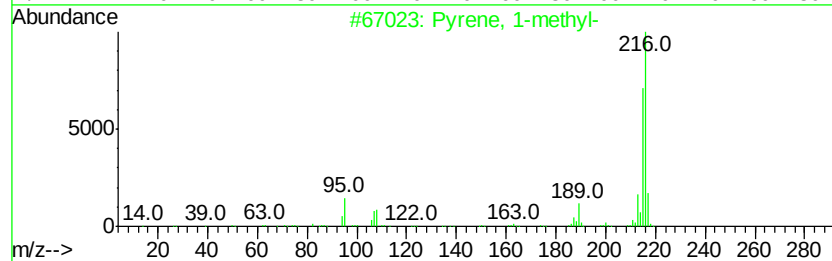
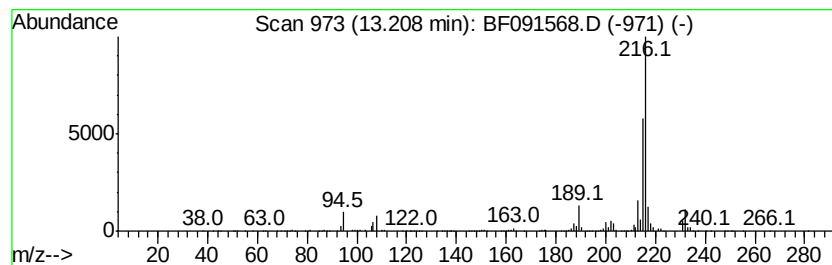
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Pyrene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.21	5.43 ng	2466880	Chrysene-d12	13.97	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	76



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091568.D
Acq On : 13 Dec 2016 21:47
Operator : UM/SJ
Sample : H5994-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

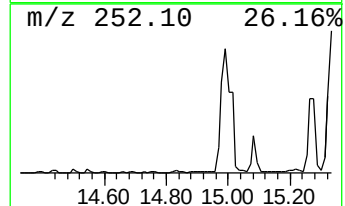
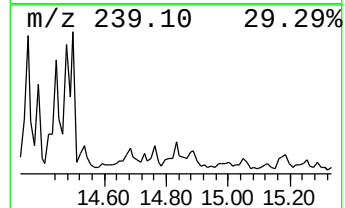
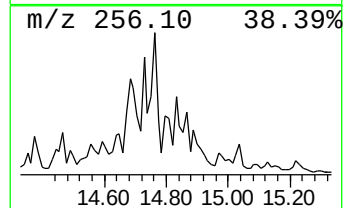
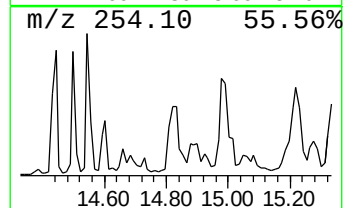
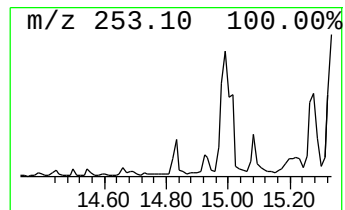
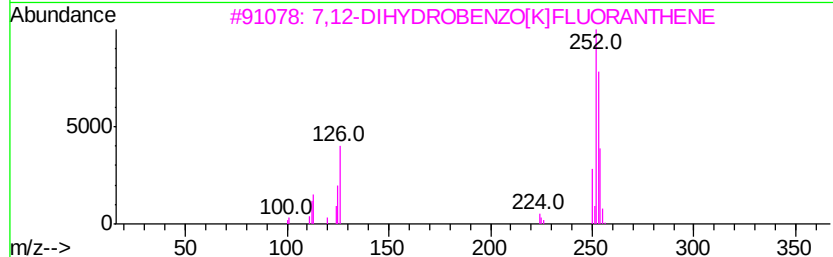
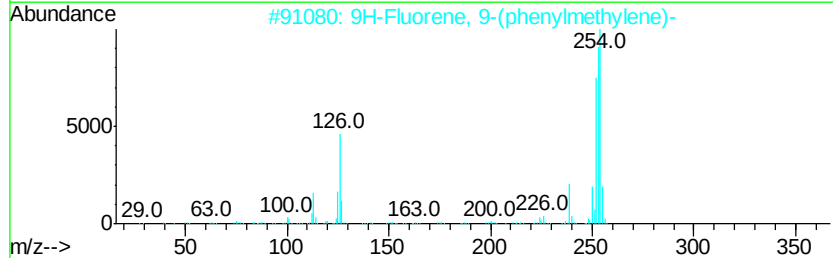
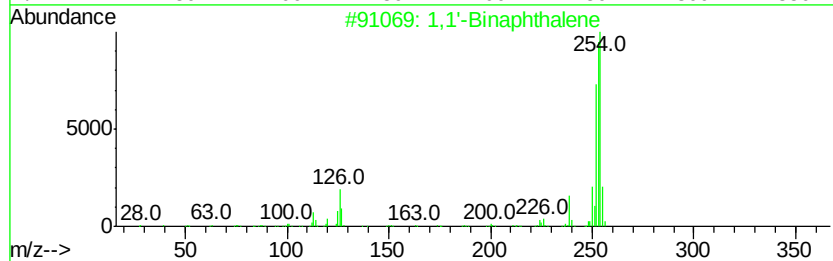
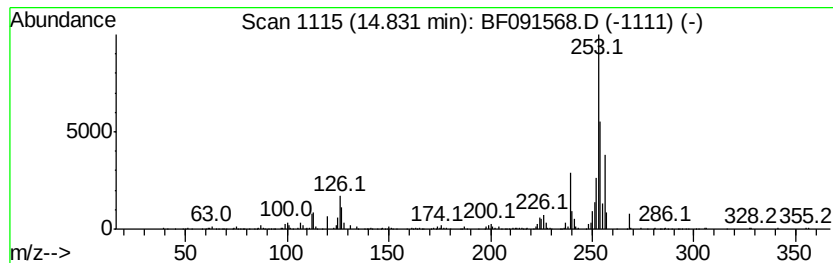
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 1,1'-Binaphthalene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.83	8.83 ng	854054	Perylene-d12	15.39	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Binaphthalene	254	C20H14	000604-53-5	95
2	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	64
3	7,12-DIHYDROBENZO[K]FLUORANTHENE	254	C20H14	1000080-17-7	49
4	4,6'-Biazulenyl	254	C20H14	094154-49-1	47
5	4,4'-Biazulenyl	254	C20H14	094053-54-0	47



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091568.D
Acq On : 13 Dec 2016 21:47
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Sample : H5994-04
Misc :
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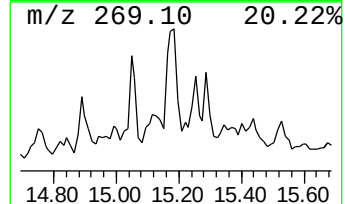
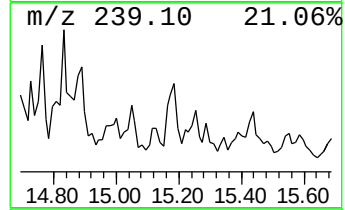
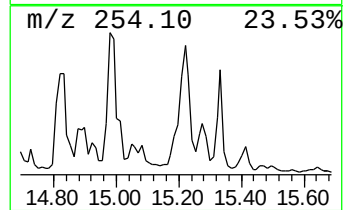
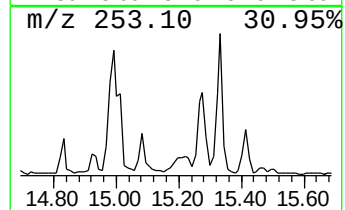
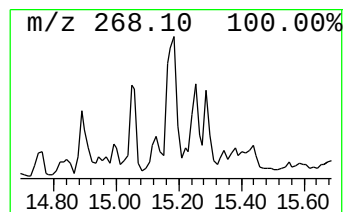
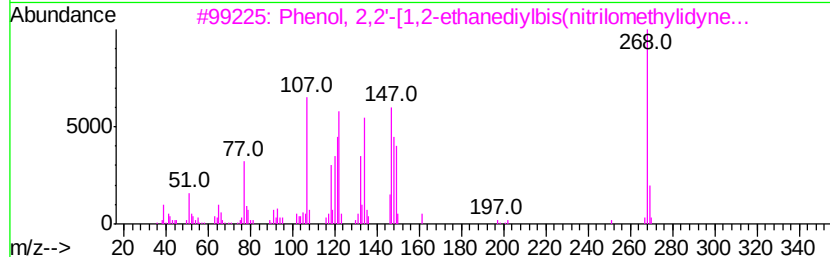
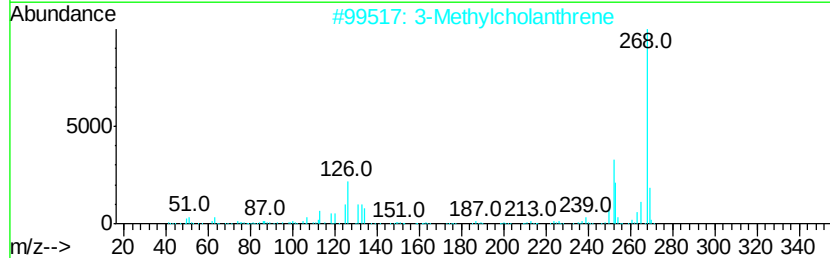
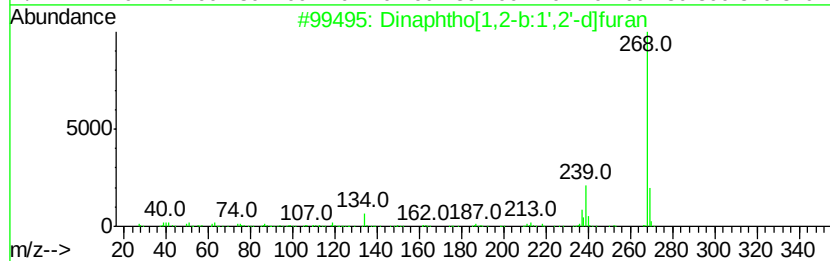
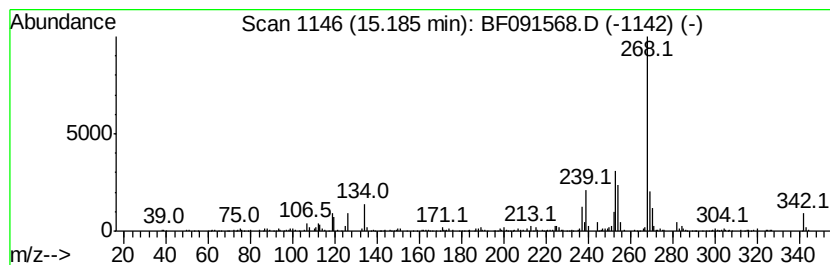
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.19	5.83 ng	563665	Perylene-d12	15.39
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Dinaphtho[1,2-b:1',2'-d]furan	268 C20H12O	000207-93-2 64
2		3-Methylcholanthrene	268 C21H16	000056-49-5 50
3		Phenol, 2,2'-[1,2-ethanediylbis(...	268 C16H16N2O2	000094-93-9 50
4		Benzene, 1,1'-(1-ethyl-1,2-ethen...	268 C18H20O2	025346-90-1 50
5		9-Benzylantracene	268 C21H16	001498-71-1 49



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091568.D
Acq On : 13 Dec 2016 21:47
Operator : UM/SJ
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Misc :
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SB-49(6-8)-12-9-16

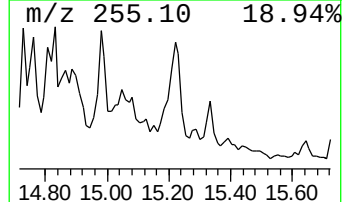
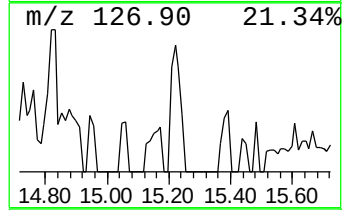
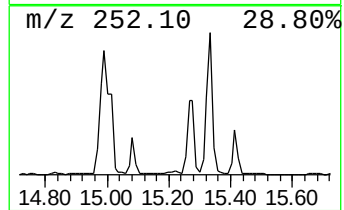
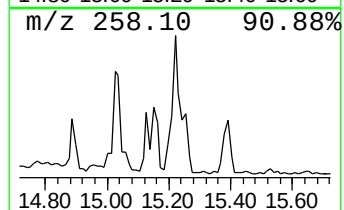
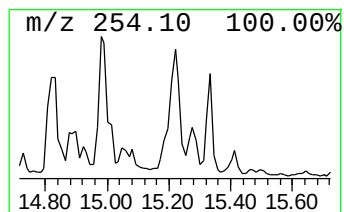
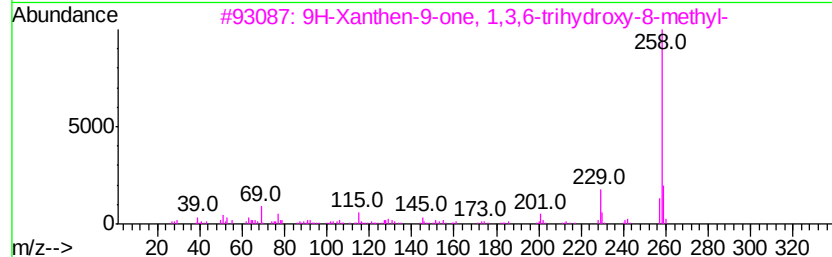
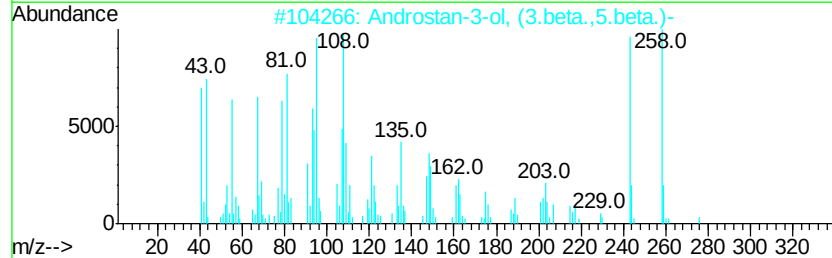
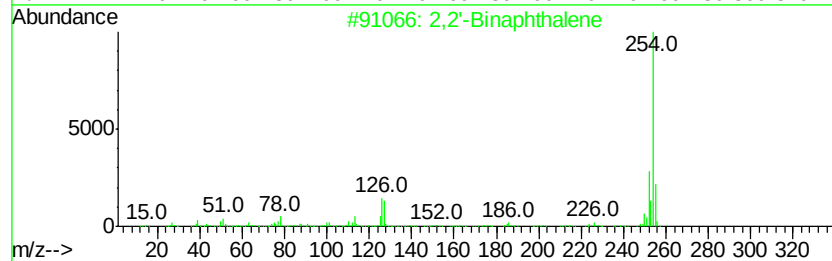
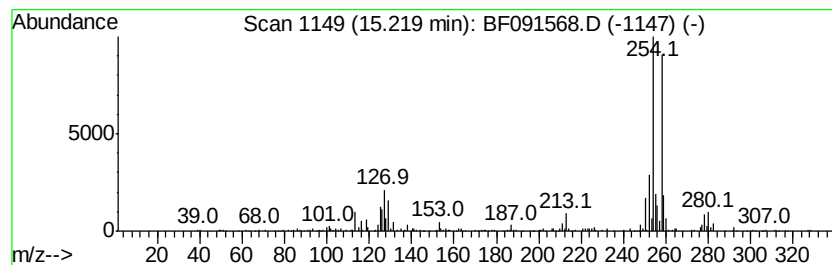
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 unknown15.22 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.22	5.05 ng	488216	Perylene-d12	15.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2'	-Binaphthalene	254	C20H14	000612-78-2	22
2	Androstan-3-ol, (3.beta.,5.beta.)-		276	C19H32O	015360-52-8	22
3	9H-Xanthen-9-one, 1,3,6-trihydro...		258	C14H10O5	020716-98-7	22
4	6H-Dibenzo[b,d]pyran-6-one, 3,7,...		258	C14H10O5	000641-38-3	22
5	Benzenamine, 4-(9H-carbazol-9-yl)-		258	C18H14N2	052708-37-9	22



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091568.D
Acq On : 13 Dec 2016 21:47
Operator : UM/SJ
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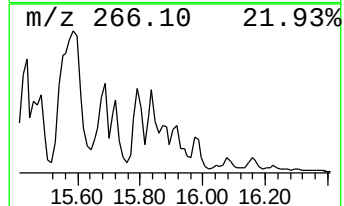
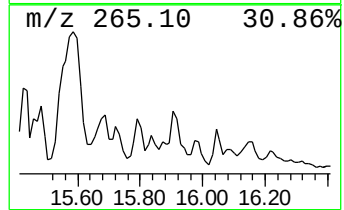
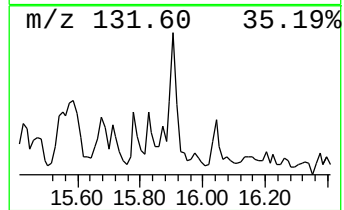
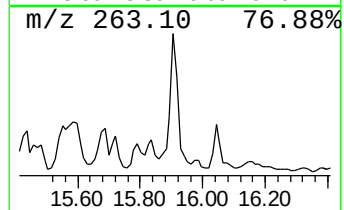
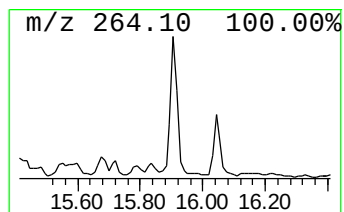
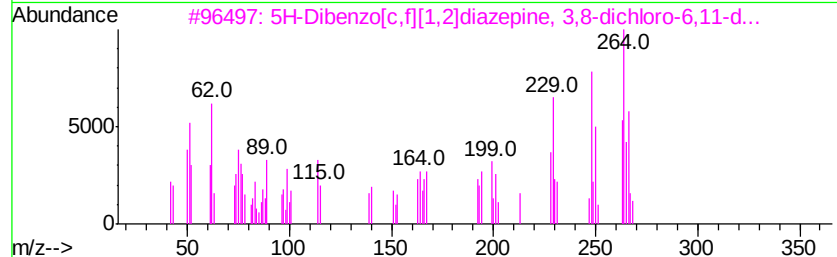
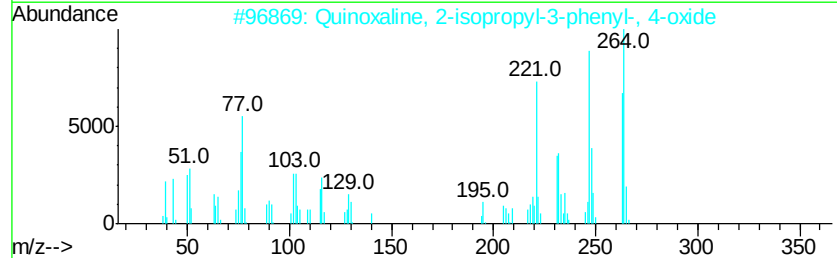
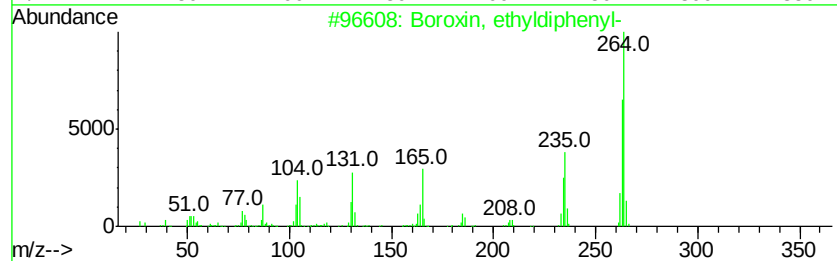
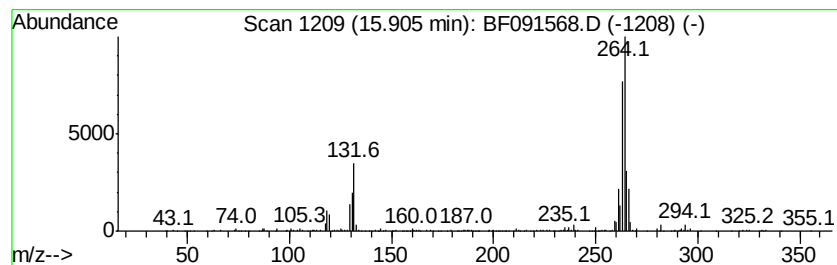
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Boroxin, ethyldiphenyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.91	5.25 ng	507780	Perylene-d12	15.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Boroxin, ethyldiphenyl-	264	C14H15B3O3	1000151-82-0	53
2		Quinoxaline, 2-isopropyl-3-phenyl...	264	C17H16N2O	016007-79-7	47
3		5H-Dibenzo[c,f][1,2]diazepine, 3...	264	C13H10Cl2N2	000955-66-8	37
4		1H-Pyrazole-4-carbonitrile, 3-(4...	263	C12H10ClN3S	068364-67-0	35
5		7-Carbomethoxy-5,8-dimethoxy-1-t...	264	C14H16O5	122136-07-6	18



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121316\
Data File : BF091568.D
Acq On : 13 Dec 2016 21:47
Operator : UM/SJ
Sample : H5994-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

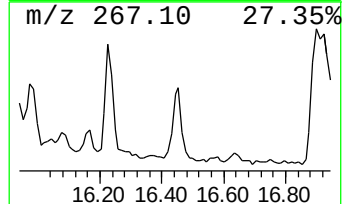
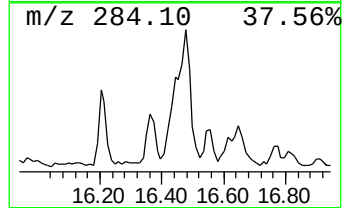
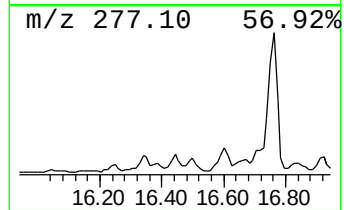
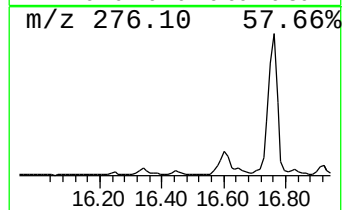
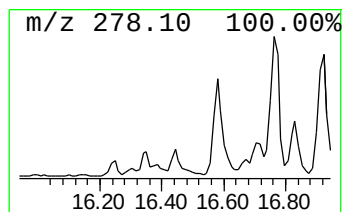
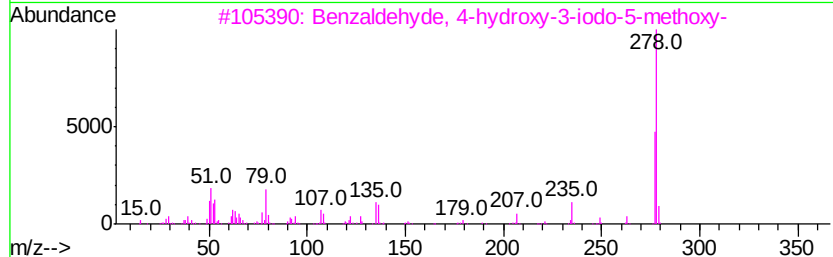
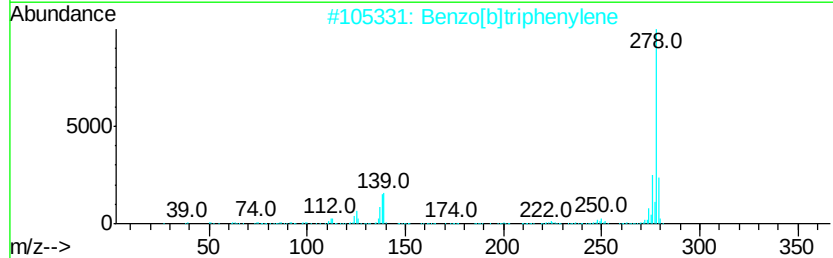
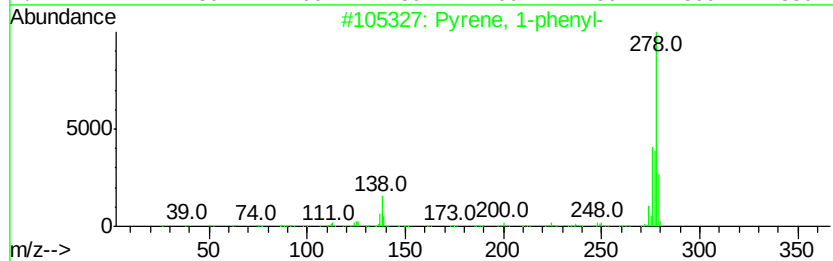
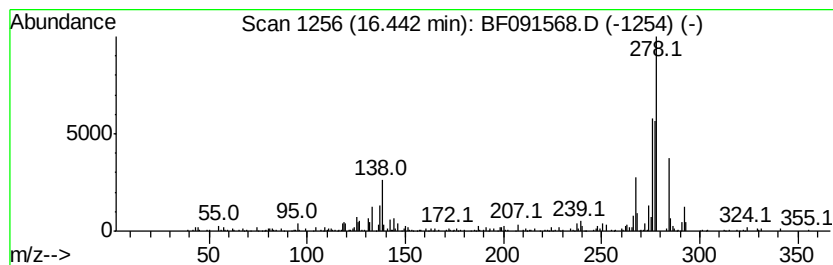
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ClientSampleId :
SB-49(6-8)-12-9-16

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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 unknown16.44 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.44	6.29 ng	608482	Perylene-d12	15.39
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Pyrene, 1-phenyl-	278 C22H14	005101-27-9 38
2		Benzo[b]triphenylene	278 C22H14	000215-58-7 38
3		Benzaldehyde, 4-hydroxy-3-iodo-5-methoxy-	278 C8H7IO3	005438-36-8 35
4		1,2:7,8-Dibenzophenanthrene	278 C22H14	000213-46-7 30
5		Dibenz[a,h]anthracene	278 C22H14	000053-70-3 27



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091568.D
Acq On : 13 Dec 2016 21:47
Operator : UM/SJ
Sample : H5994-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SB-49(6-8)-12-9-16

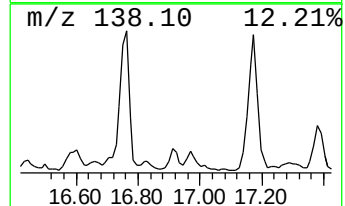
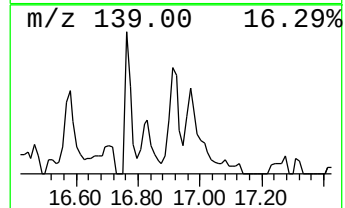
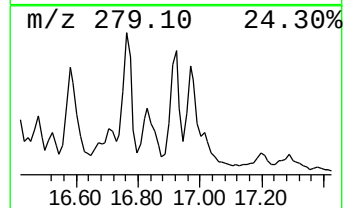
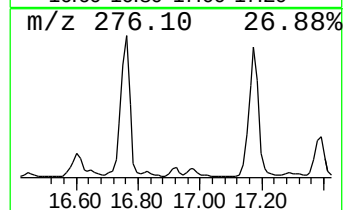
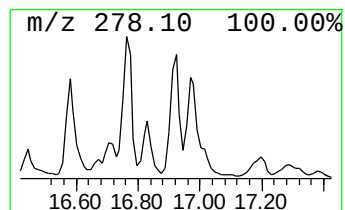
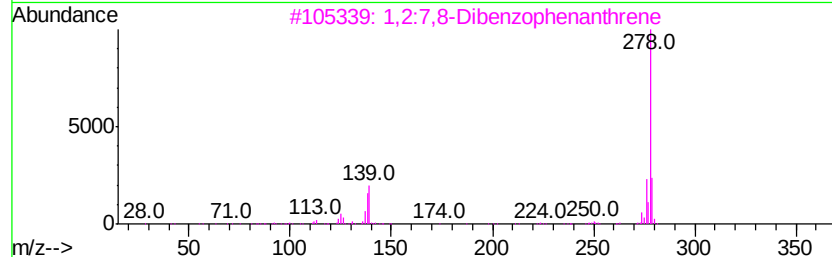
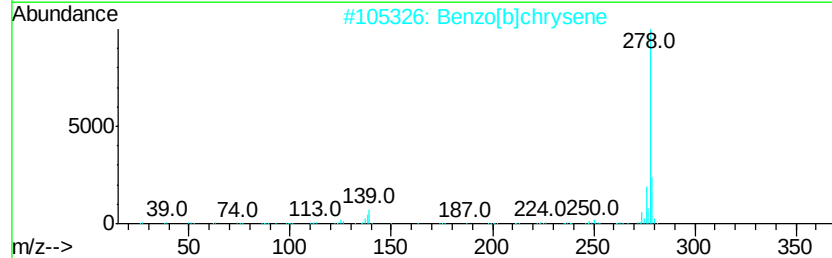
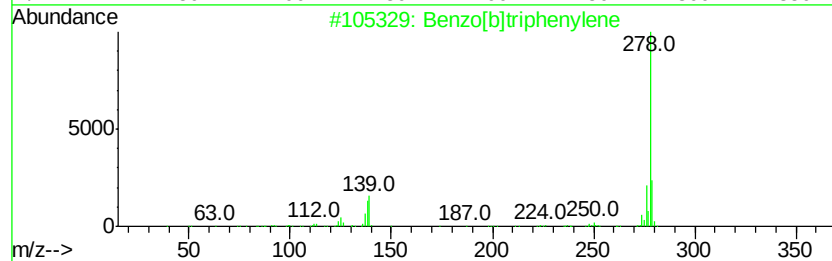
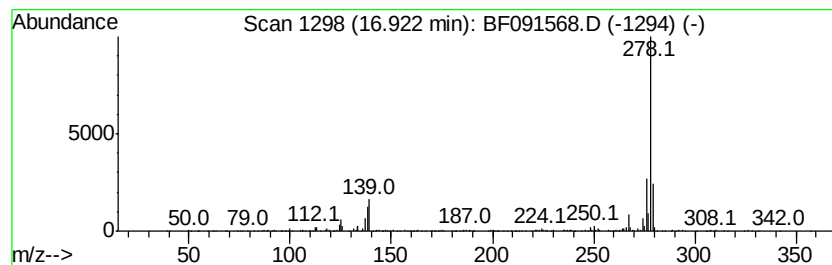
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Benzo[b]triphenylene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.92	8.06 ng	779718	Perylene-d12	15.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[b]triphenylene	278	C22H14	000215-58-7	99
2		Benzo[b]chrysene	278	C22H14	000214-17-5	98
3		1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	98
4		Dibenz[a,h]anthracene	278	C22H14	000053-70-3	98
5		Benzo[a]naphthacene	278	C22H14	000226-88-0	93



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121316\
Data File : BF091568.D
Acq On : 13 Dec 2016 21:47
Operator : UM/SJ
Sample : H5994-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SB-49(6-8)-12-9-16

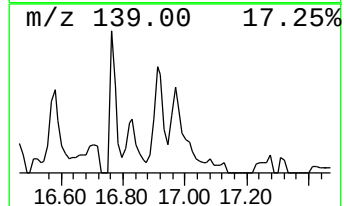
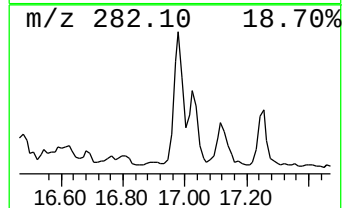
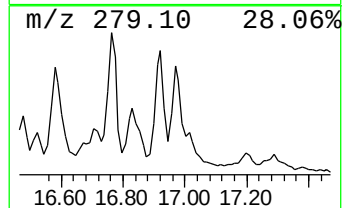
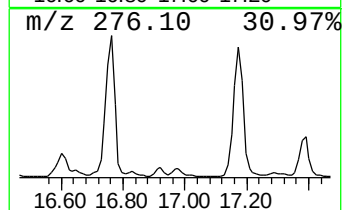
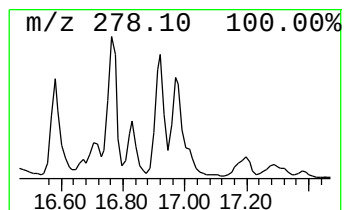
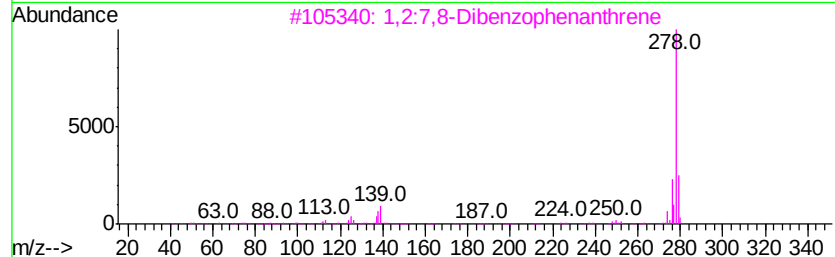
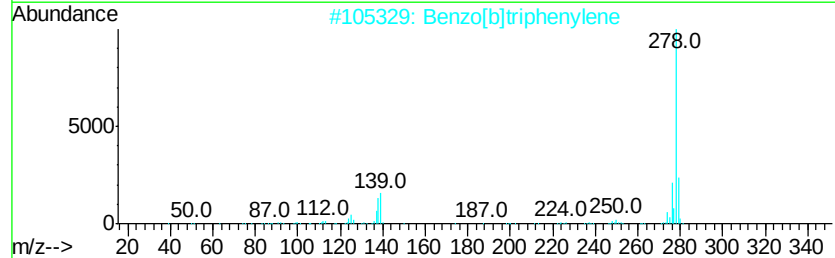
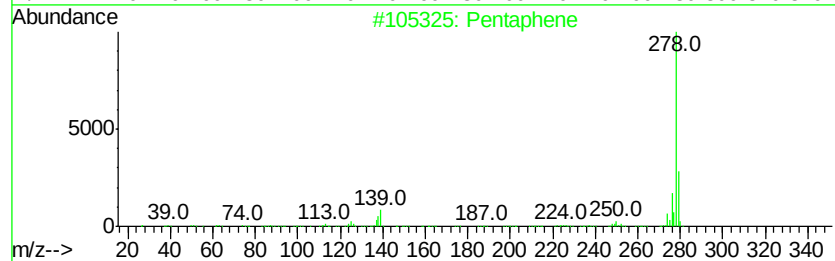
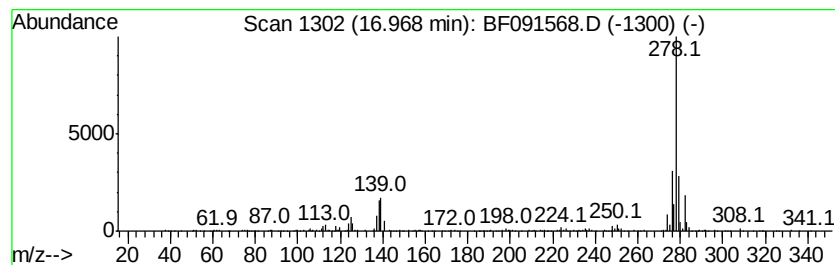
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Pentaphene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.97	4.70 ng	454733	Perylene-d12	15.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Pentaphene	278	C22H14	000222-93-5	96
2		Benzo[b]triphenylene	278	C22H14	000215-58-7	94
3		1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	93
4		Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93
5		Benzo[b]chrysene	278	C22H14	000214-17-5	93



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091568.D
Acq On : 13 Dec 2016 21:47
Operator : UM/SJ
Sample : H5994-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SB-49(6-8)-12-9-16

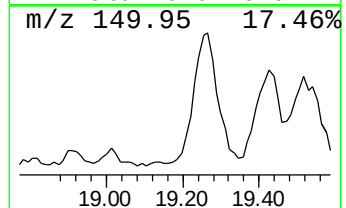
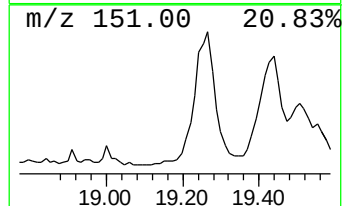
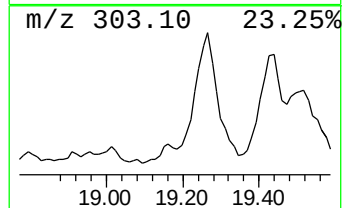
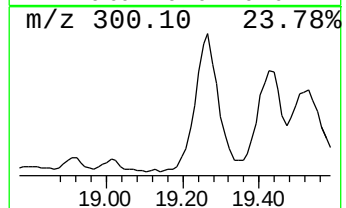
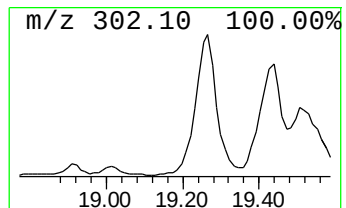
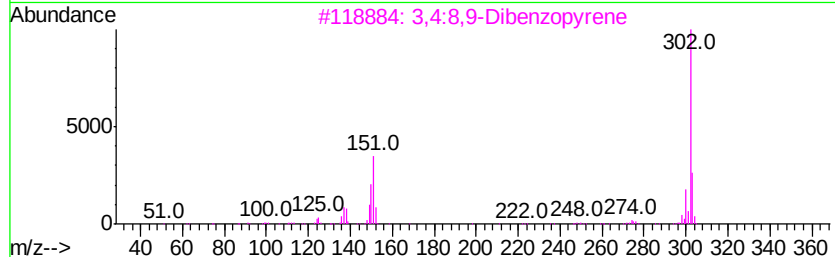
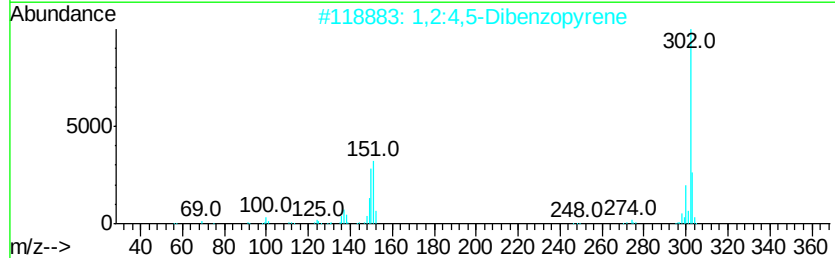
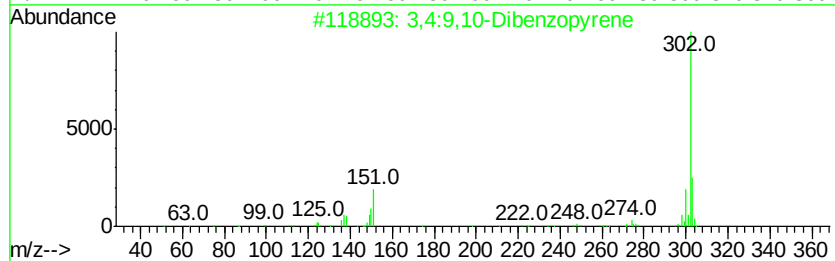
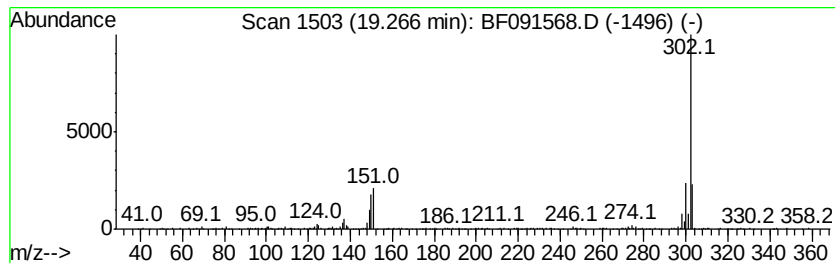
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 3,4:9,10-Dibenzopyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.27	11.99 ng	1159910	Perylene-d12	15.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	93
2		1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	91
3		3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	91
4		1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	76
5		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	76



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\
Data File : BF091568.D
Acq On : 13 Dec 2016 21:47
Operator : UM/SJ
Sample : H5994-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SB-49(6-8)-12-9-16

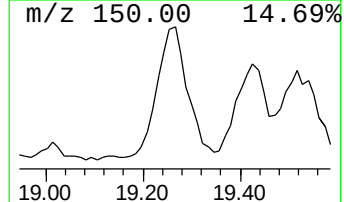
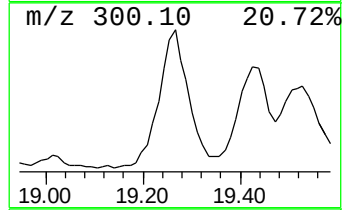
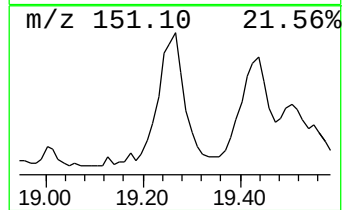
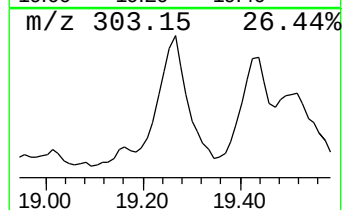
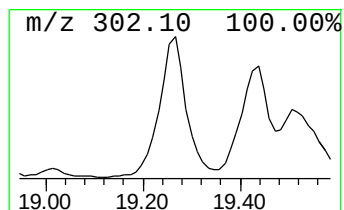
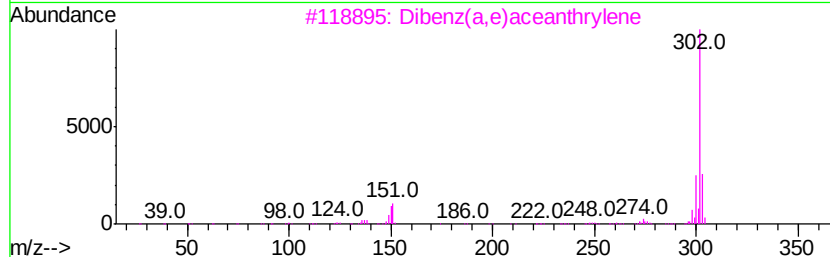
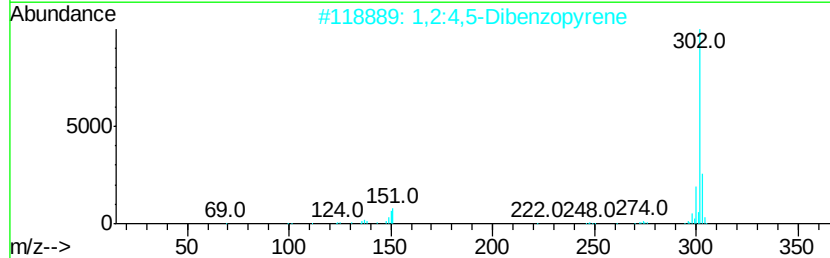
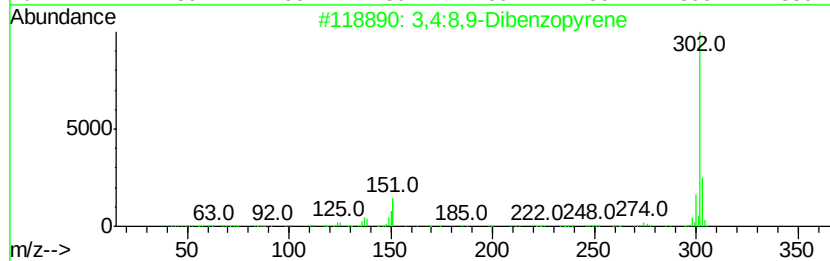
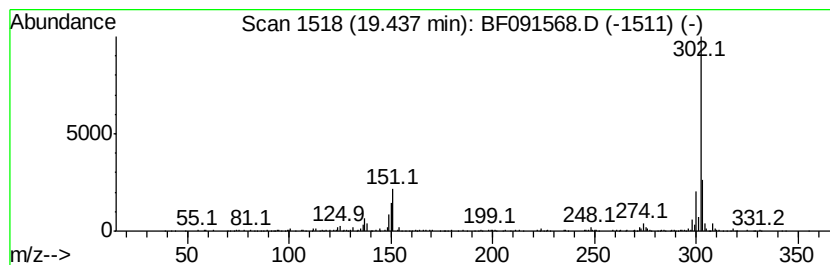
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 3,4:8,9-Dibenzopyrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.44	8.51 ng	823132	Perylene-d12	15.39

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	98
2			1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	97
3			Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	93
4			3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	90
5			Dibenzo[fg,op]naphthacene	302	C24H14	000192-51-8	68



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121316\
 Data File : BF091568.D
 Acq On : 13 Dec 2016 21:47
 Operator : UM/SJ
 Sample : H5994-04
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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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unknown6.59	6.59	105.5	ng	9707950	1	6.81	1841340	20.0
Fluorene, 2,4a-di...	10.48	10.9	ng	1658100	3	9.85	3055100	20.0
4H-Cyclopenta[def...	11.95	8.4	ng	6661080	4	11.33	15861700	20.0
11H-Benzo[b]fluorene	13.11	8.6	ng	3907100	5	13.97	9094190	20.0
Pyrene, 1-methyl-	13.21	5.4	ng	2466880	5	13.97	9094190	20.0
1,1'-Binaphthalene	14.83	8.8	ng	854054	6	15.39	1934980	20.0
Dinaphtho[1,2-b:1...	15.19	5.8	ng	563665	6	15.39	1934980	20.0
unknown15.22	15.22	5.0	ng	488216	6	15.39	1934980	20.0
Boroxin, ethyldip...	15.91	5.3	ng	507780	6	15.39	1934980	20.0
unknown16.44	16.44	6.3	ng	608482	6	15.39	1934980	20.0
Benzo[b]triphenylene	16.92	8.1	ng	779718	6	15.39	1934980	20.0
Pentaphene	16.97	4.7	ng	454733	6	15.39	1934980	20.0
3,4:9,10-Dibenzop...	19.27	12.0	ng	1159910	6	15.39	1934980	20.0
3,4:8,9-Dibenzopy...	19.44	8.5	ng	823132	6	15.39	1934980	20.0