

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
 Data File : BF083431.D
 Acq On : 2 Dec 2015 21:49
 Operator : UM/IZ
 Sample : G4582-02
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-01(8-12.5)

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-BF113015.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.647	257	259	268	rBV	1006675	2099488	9.13%	0.748%
2	5.127	299	301	304	rBV	3921962	5400132	23.48%	1.924%
3	6.213	393	396	399	rBV	5198890	5815484	25.29%	2.072%
4	6.316	402	405	407	rVV	5736305	5803239	25.23%	2.068%
5	6.533	423	424	426	rBV	789850	935502	4.07%	0.333%
6	6.693	436	438	443	rVB	3983579	4390235	19.09%	1.564%
7	6.796	445	447	449	rBV	442083	559624	2.43%	0.199%
8	6.876	452	454	455	rBV	501637	570091	2.48%	0.203%
9	7.116	470	475	477	rBV2	3672378	4557544	19.82%	1.624%
10	7.573	513	515	517	rBV2	735665	991123	4.31%	0.353%
11	7.847	534	539	543	rVB2	2297540	4062921	17.67%	1.448%
12	8.270	574	576	580	rBV3	483190	1124532	4.89%	0.401%
13	8.339	580	582	584	rVB2	402431	531741	2.31%	0.189%
14	8.476	591	594	597	rVB4	285389	621154	2.70%	0.221%
15	8.545	597	600	602	rVB	1258540	1439980	6.26%	0.513%
16	8.647	605	609	611	rBV	6773130	8163899	35.50%	2.909%
17	8.876	625	629	630	rBV	374339	665562	2.89%	0.237%
18	8.910	630	632	635	rVB	5281229	5296276	23.03%	1.887%
19	9.013	638	641	643	rBV	2702266	3813232	16.58%	1.359%
20	9.105	643	649	652	rVB	2242806	3705323	16.11%	1.320%
21	9.173	652	655	657	rBV	2538000	3906859	16.99%	1.392%
22	9.242	659	661	665	rBV	3777310	6323192	27.49%	2.253%
23	9.310	665	667	669	rBV2	791937	1178311	5.12%	0.420%
24	9.356	669	671	675	rVB	2319910	2844539	12.37%	1.014%
25	9.436	675	678	681	rVB2	2525509	2524411	10.98%	0.899%
26	9.539	683	687	688	rBV3	255403	547262	2.38%	0.195%
27	9.573	688	690	691	rBV	2494043	2651445	11.53%	0.945%
28	9.619	691	694	698	rVB	8841817	11500216	50.00%	4.098%
29	9.688	698	700	702	rVB	780271	1162951	5.06%	0.414%
30	9.779	705	708	710	rBV	1518693	1836632	7.99%	0.654%
31	9.825	710	712	713	rVB	1019646	914205	3.98%	0.326%
32	9.893	716	718	720	rBV	1600911	2168953	9.43%	0.773%
33	9.928	720	721	724	rVB2	782643	885391	3.85%	0.315%
34	9.985	724	726	728	rBV	873805	1538323	6.69%	0.548%

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35	10.030	728	730	732	rVB	1712674	1670411	7.26%	0.595%
36	10.088	732	735	736	rBV2	1360216	2137363	9.29%	0.762%
37	10.122	736	738	741	rVB	4220162	6551655	28.49%	2.334%
38	10.190	741	744	746	rBV3	685585	1533881	6.67%	0.547%
39	10.236	746	748	751	rVB3	1253286	2125668	9.24%	0.757%
40	10.305	751	754	755	rVB2	724916	1259933	5.48%	0.449%
41	10.362	755	759	761	rVB3	2838252	5508648	23.95%	1.963%
42	10.499	769	771	772	rBV	560048	848429	3.69%	0.302%
43	10.522	772	773	775	rVB	784434	795523	3.46%	0.283%
44	10.682	785	787	789	rBV	1328802	2136719	9.29%	0.761%
45	10.716	789	790	792	rVB	1218823	983888	4.28%	0.351%
46	10.773	793	795	799	rVB	1030426	1183001	5.14%	0.422%
47	10.853	799	802	803	rBV3	316871	610886	2.66%	0.218%
48	10.899	805	806	809	rVB2	518725	667021	2.90%	0.238%
49	10.991	812	814	817	rVB	1113197	1390341	6.05%	0.495%
50	11.036	817	818	821	rVB	485619	670710	2.92%	0.239%
51	11.173	822	830	832	rBV	10188318	22998154	100.00%	8.195%
52	11.219	832	834	836	rVB	5428897	6091674	26.49%	2.171%
53	11.288	839	840	845	rVB2	220921	538348	2.34%	0.192%
54	11.471	854	856	858	rBV2	843881	927905	4.03%	0.331%
55	11.505	858	859	864	rVB2	591850	900854	3.92%	0.321%
56	11.733	875	879	880	rBV	2975581	4414436	19.19%	1.573%
57	11.768	880	882	884	rVB	3871890	4336693	18.86%	1.545%
58	11.825	884	887	889	rBV	1736517	2570556	11.18%	0.916%
59	11.871	889	891	893	rBV	4520382	6862838	29.84%	2.445%
60	12.111	907	912	918	rVB	2212705	3416705	14.86%	1.217%
61	12.305	924	929	931	rBV2	513261	896431	3.90%	0.319%
62	12.339	931	932	934	rVV	513115	762422	3.32%	0.272%
63	12.442	938	941	943	rVV	1766626	3214081	13.98%	1.145%
64	12.488	943	945	947	rVV	1344942	2419480	10.52%	0.862%
65	12.568	950	952	955	rVV	759281	1431052	6.22%	0.510%
66	12.671	955	961	965	rVV	5992777	10470104	45.53%	3.731%
67	12.739	965	967	969	rVV2	298289	594217	2.58%	0.212%
68	12.785	969	971	974	rVB	2655987	3755608	16.33%	1.338%
69	12.991	983	989	991	rVV	6559304	14095968	61.29%	5.023%
70	13.151	1001	1003	1005	rVV2	311952	604859	2.63%	0.216%
71	13.208	1005	1008	1011	rVV	3445908	5065076	22.02%	1.805%

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72	13.288	1012	1015	1022	rVB	855954	1653811	7.19%	0.589%
73	13.448	1022	1029	1032	rVB	1886675	4260957	18.53%	1.518%
74	13.539	1035	1037	1040	rVV	1389669	2161974	9.40%	0.770%
75	13.597	1040	1042	1044	rVV	1051067	1461539	6.36%	0.521%
76	13.688	1047	1050	1051	rVV	429117	742835	3.23%	0.265%
77	13.722	1051	1053	1055	rVV2	1088603	1639627	7.13%	0.584%
78	13.768	1055	1057	1061	rVB	1076215	1802657	7.84%	0.642%
79	14.077	1079	1084	1087	rVV	283936	848664	3.69%	0.302%
80	14.157	1087	1091	1098	rVV2	304741	1166260	5.07%	0.416%
81	14.339	1104	1107	1109	rVV3	362208	843090	3.67%	0.300%
82	14.397	1109	1112	1116	rVV2	787066	2051509	8.92%	0.731%
83	14.728	1137	1141	1143	rVV2	3194219	6881200	29.92%	2.452%
84	14.785	1143	1146	1148	rVV	2501725	3956261	17.20%	1.410%
85	14.957	1158	1161	1164	rVV	398441	638808	2.78%	0.228%
86	15.345	1191	1195	1197	rVV	826017	1426041	6.20%	0.508%
87	15.482	1201	1207	1209	rVV3	423145	1158345	5.04%	0.413%
88	15.551	1209	1213	1215	rVV2	467598	1206219	5.24%	0.430%
89	16.294	1274	1278	1284	rVV	1622373	4128548	17.95%	1.471%
90	16.420	1286	1289	1292	rVV	602712	1080215	4.70%	0.385%
91	16.660	1306	1310	1313	rVB	1324930	1981970	8.62%	0.706%
92	16.740	1313	1317	1320	rBV	2314012	3870058	16.83%	1.379%
93	16.797	1320	1322	1324	rBV	675805	1037928	4.51%	0.370%
94	17.037	1336	1343	1348	rBV2	235117	1114411	4.85%	0.397%
95	17.368	1369	1372	1378	rVV2	447262	952282	4.14%	0.339%
96	18.031	1426	1430	1433	rBV2	268333	572375	2.49%	0.204%
97	18.180	1439	1443	1447	rVB2	942960	1760990	7.66%	0.627%
98	18.557	1471	1476	1480	rBV	834376	1688973	7.34%	0.602%
99	18.751	1489	1493	1501	rVB	444826	1005260	4.37%	0.358%
100	21.414	1722	1726	1732	rVV	159255	588079	2.56%	0.210%

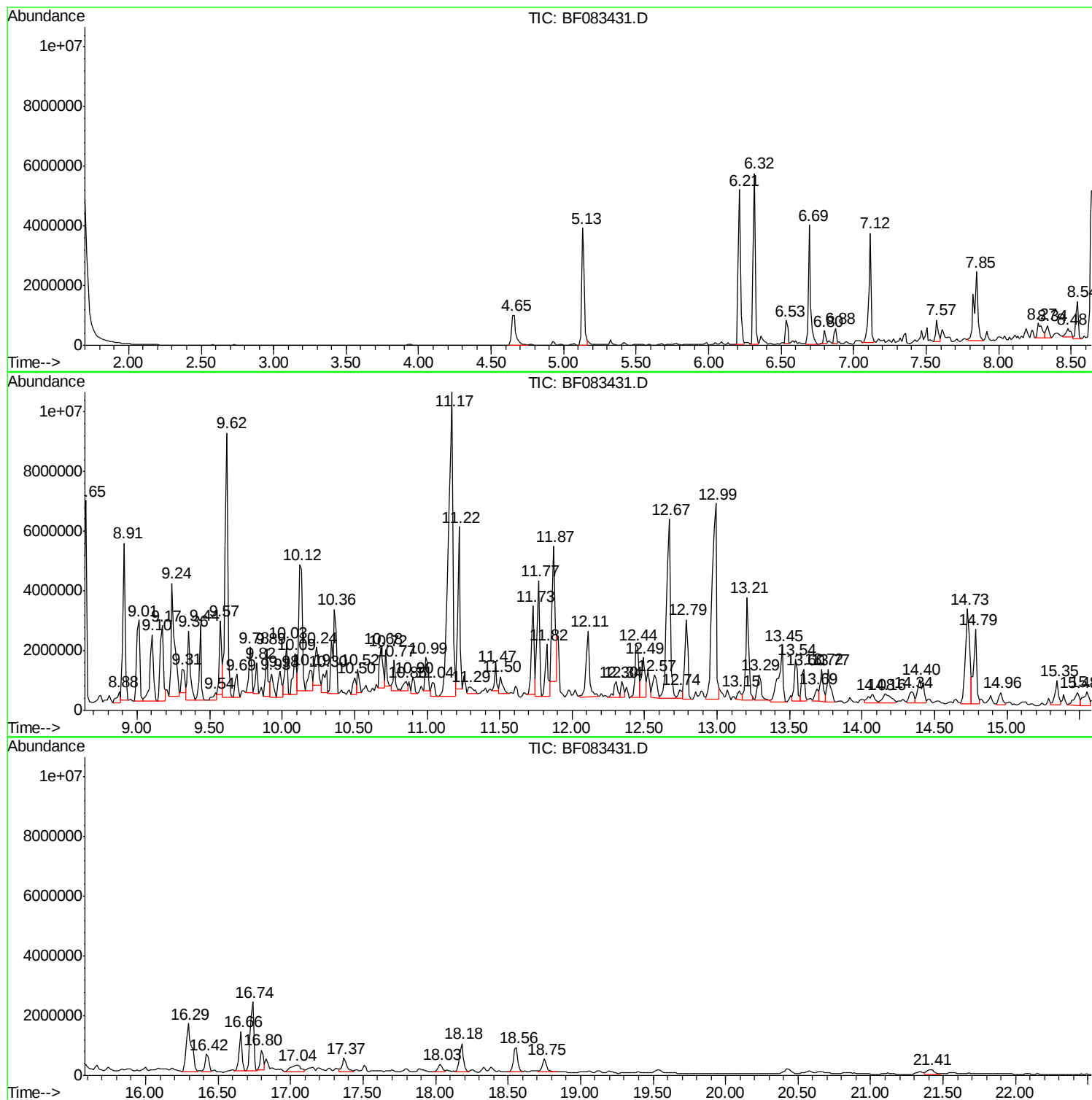
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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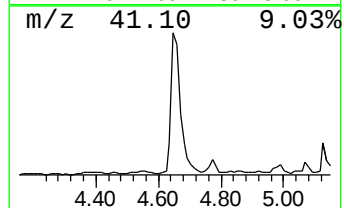
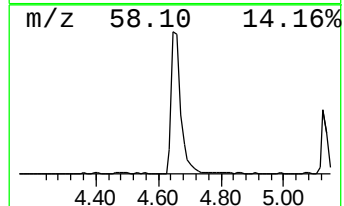
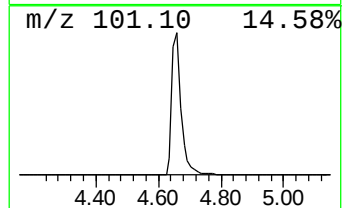
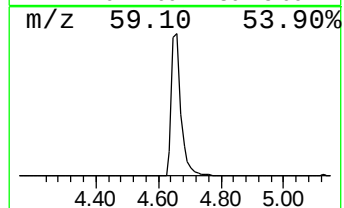
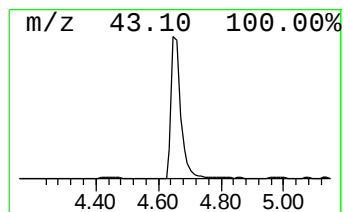
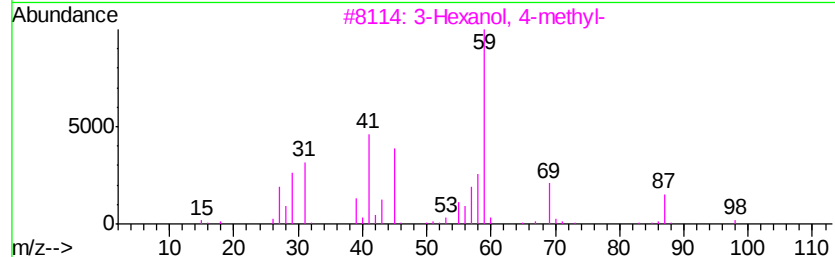
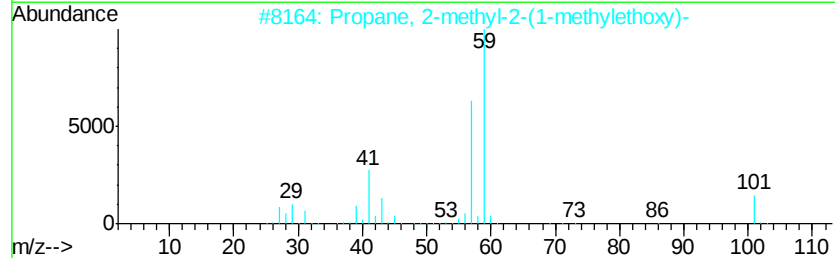
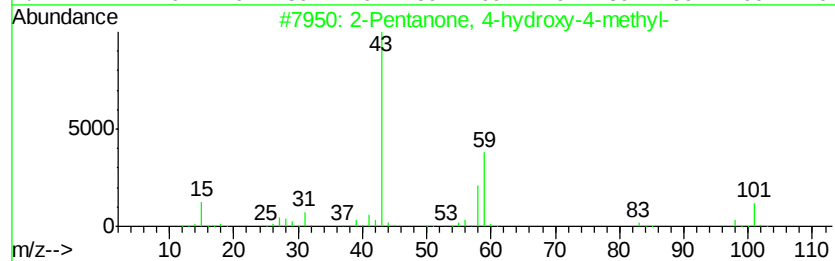
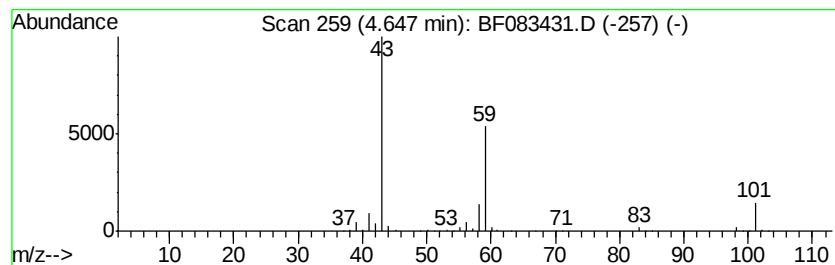
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.65	44.88 ng	2099490	1,4-Dichlorobenzene-d4	6.53

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2			Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	36
3			3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4			Acetic acid, cyano-, 1,1-dimethyl...	141	C7H11NO2	001116-98-9	32
5			2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28



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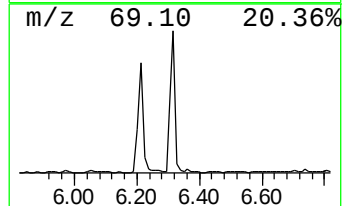
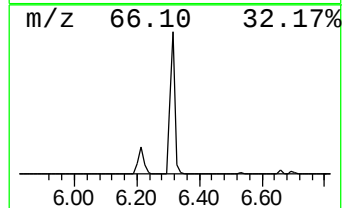
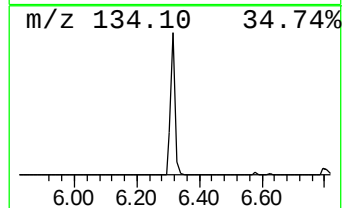
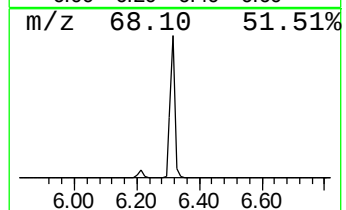
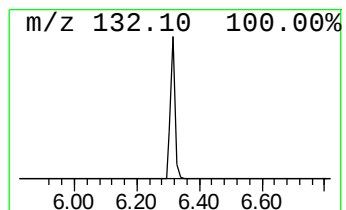
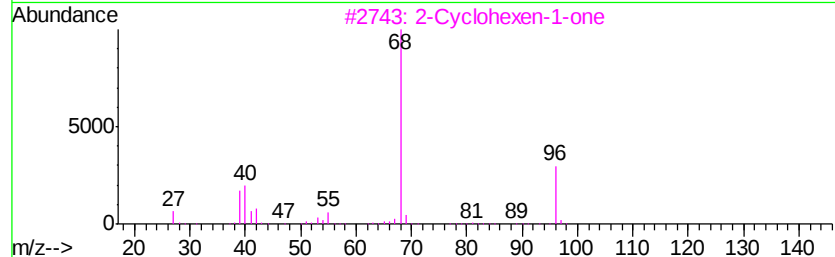
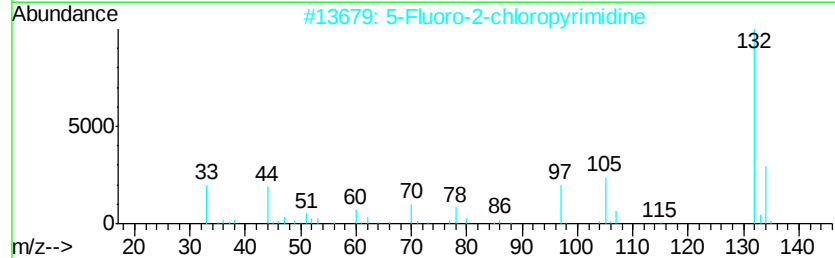
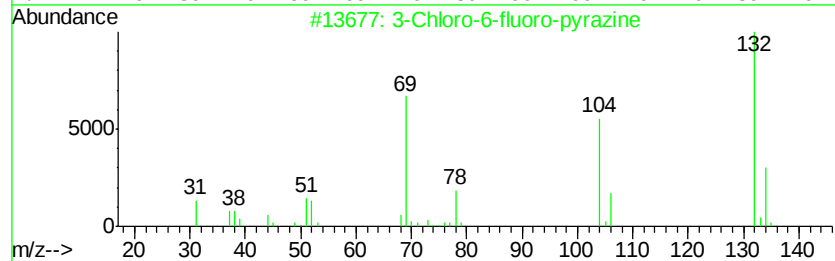
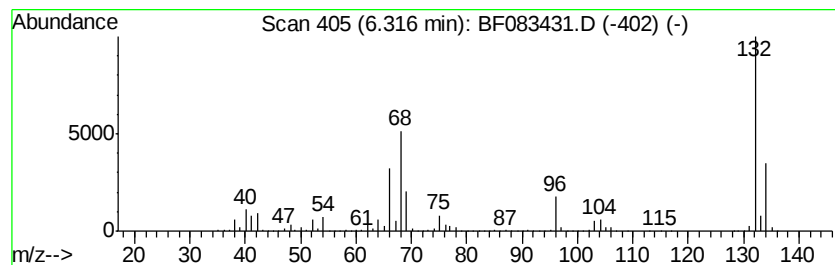
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 unknown6.32 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.32	124.07 ng	5803240	1,4-Dichlorobenzene-d4	6.53

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
3		2-Cyclohexen-1-one	96	C6H8O	000930-68-7	10
4		(5-METHYL-2-PYRIDYL)ACETONITRILE	132	C8H8N2	1000241-93-9	10
5		Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10



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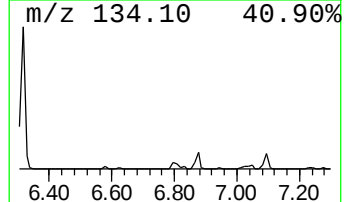
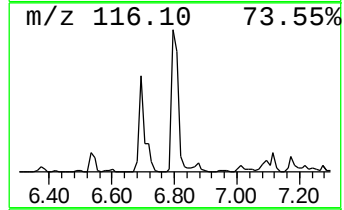
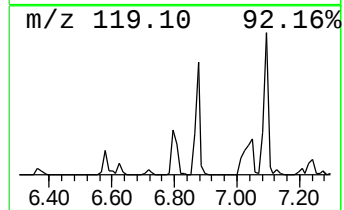
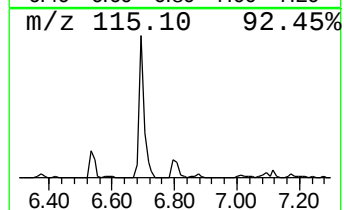
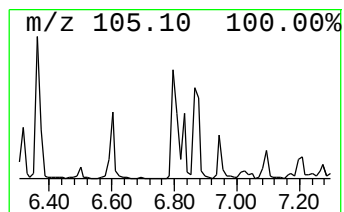
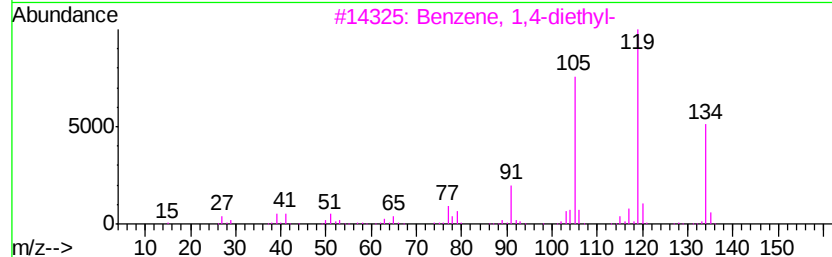
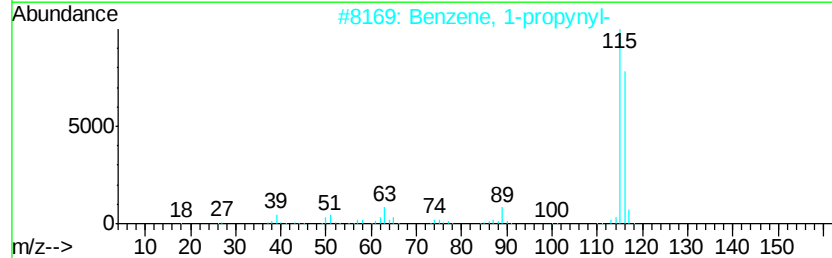
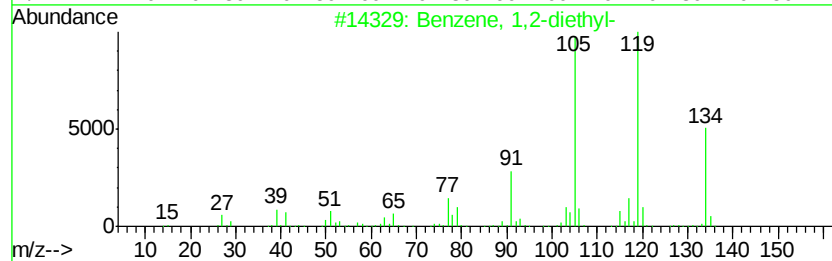
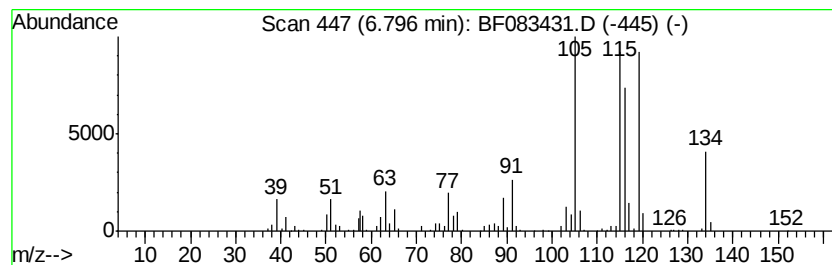
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Benzene, 1,2-diethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.80	11.96 ng	559624	1,4-Dichlorobenzene-d4	6.53

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	86
2		Benzene, 1-propynyl-	116	C9H8	000673-32-5	86
3		Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	64
4		Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	50
5		Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	43



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120215\
Data File : BF083431.D
Acq On : 2 Dec 2015 21:49
Operator : UM/IZ
Sample : G4582-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(8-12.5)

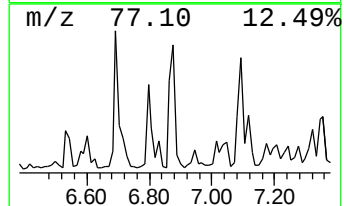
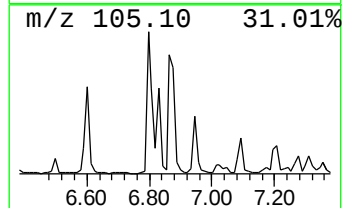
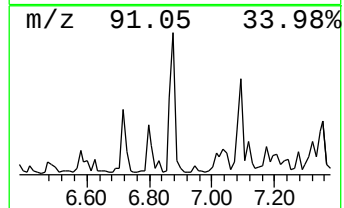
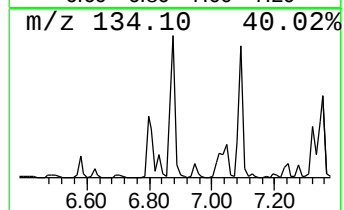
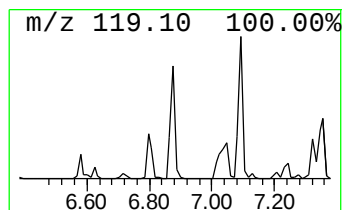
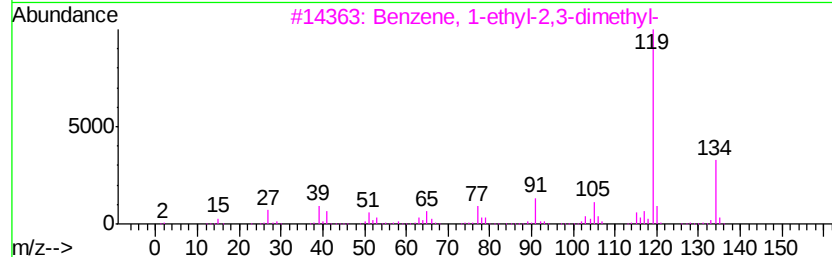
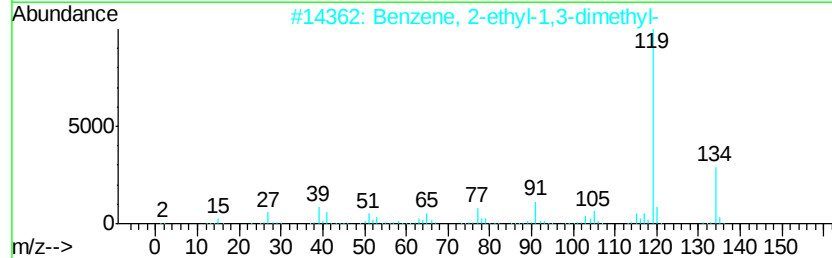
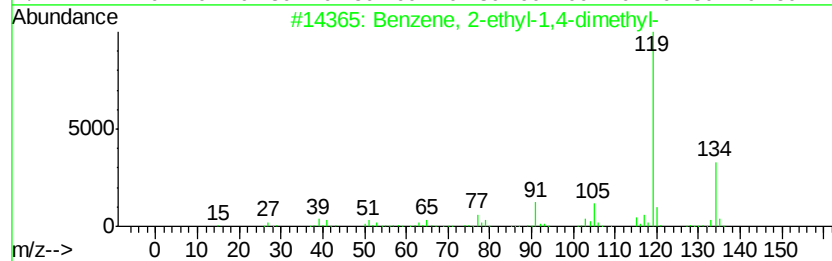
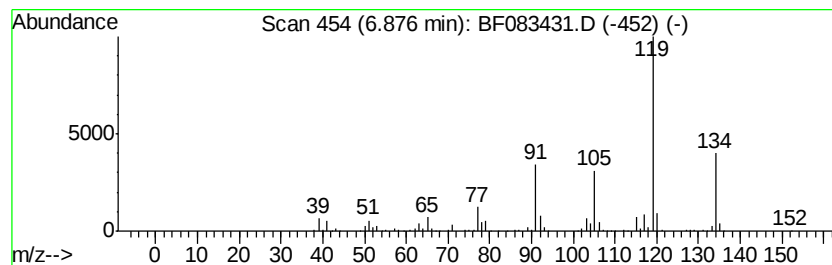
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.88	12.19 ng	570091	1,4-Dichlorobenzene-d4	6.53

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94
2		Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	90
3		Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	90
4		Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	90
5		Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	90



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
Data File : BF083431.D
Acq On : 2 Dec 2015 21:49
Operator : UM/IZ
Sample : G4582-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(8-12.5)

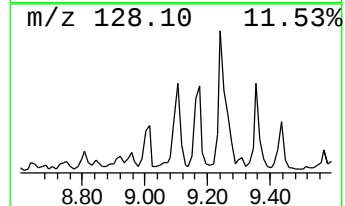
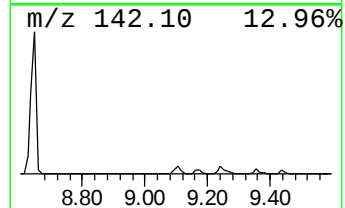
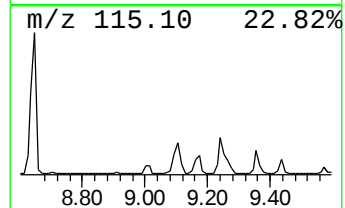
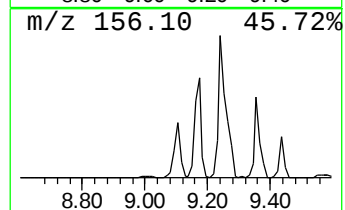
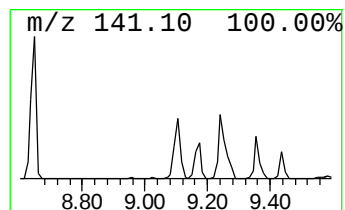
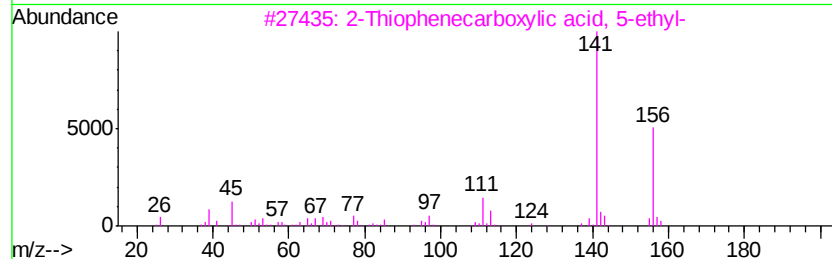
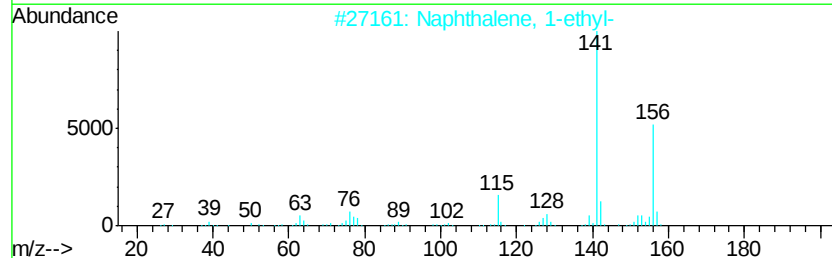
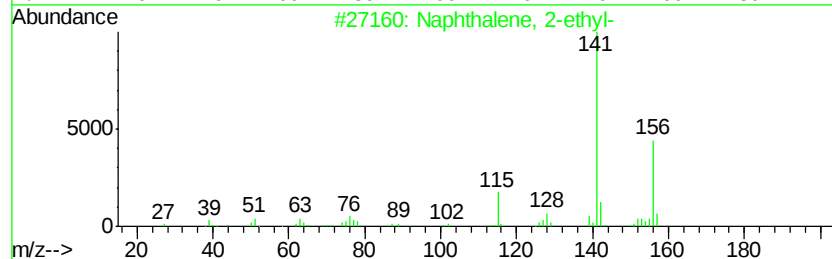
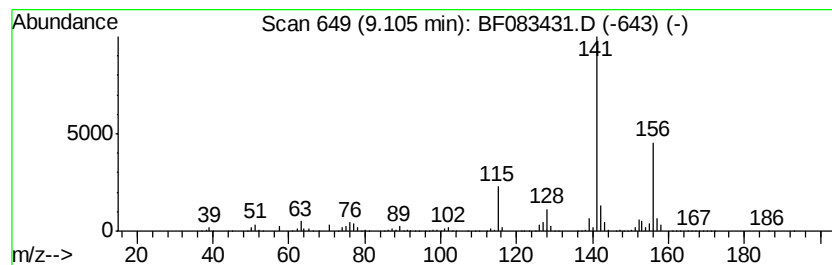
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Naphthalene, 2-ethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.10	27.95 ng	3705320	Acenaphthene-d10	9.57

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	97
2		Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	96
3		2-Thiophenecarboxylic acid, 5-ethyl-	156	C7H8O2S	023229-72-3	64
4		Methyl phenylphosphinic acid	156	C7H9O2P	004271-13-0	53
5		Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	50



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
Data File : BF083431.D
Acq On : 2 Dec 2015 21:49
Operator : UM/IZ
Sample : G4582-02
Misc :
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Instrument :
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ClientSampleId :
SB-P3WC-01(8-12.5)

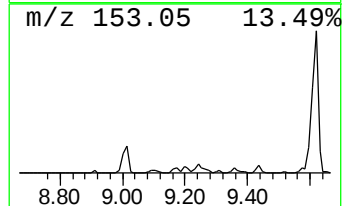
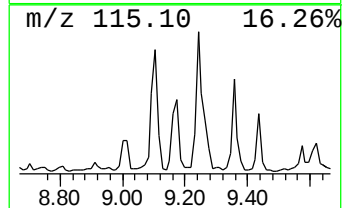
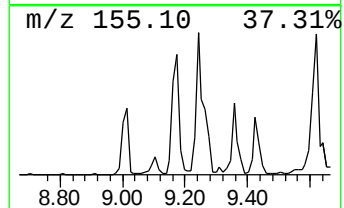
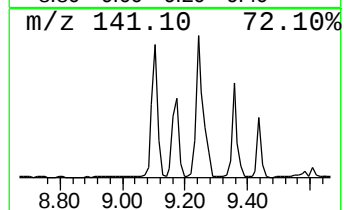
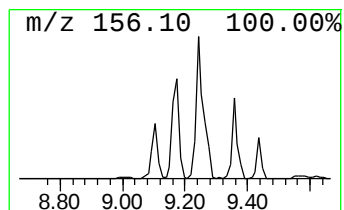
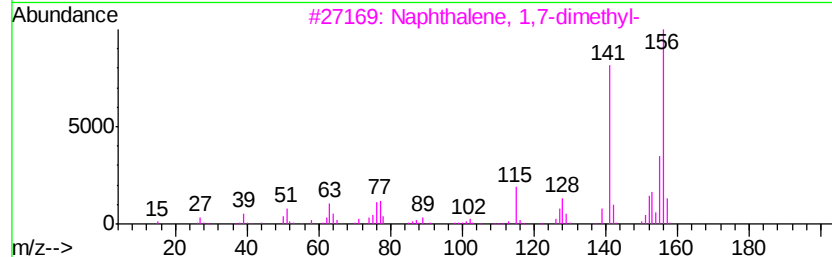
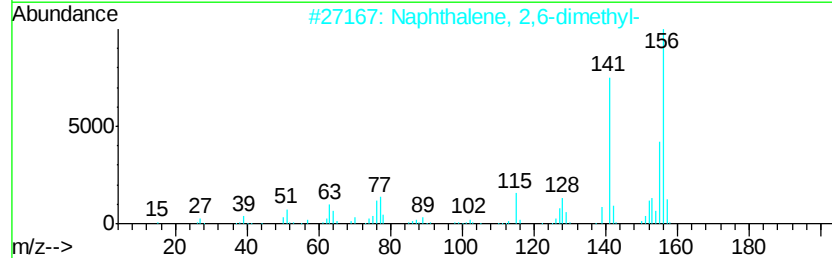
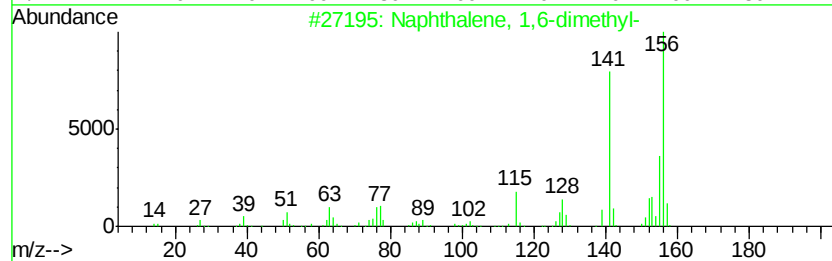
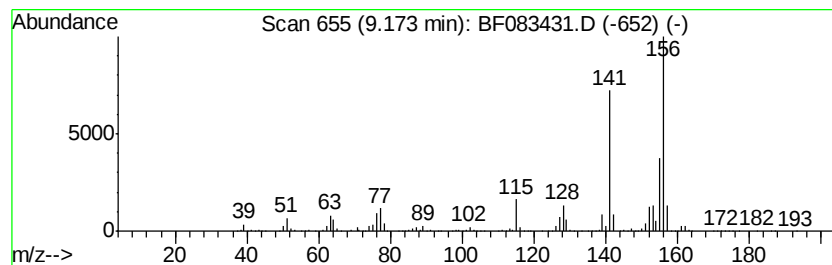
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Naphthalene, 1,6-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.17	29.47 ng	3906860	Acenaphthene-d10	9.57

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
2		Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
3		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	98
4		Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
5		Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120215\
Data File : BF083431.D
Acq On : 2 Dec 2015 21:49
Operator : UM/IZ
Sample : G4582-02
Misc :
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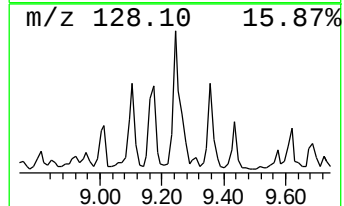
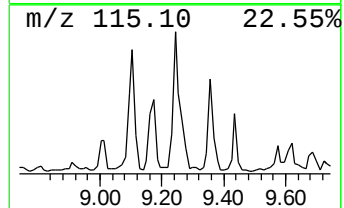
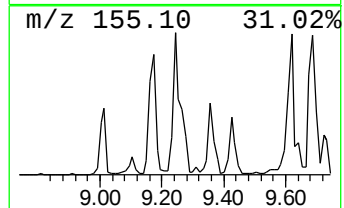
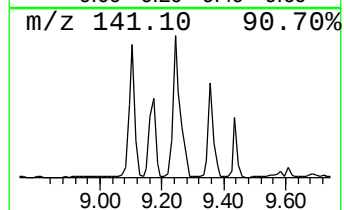
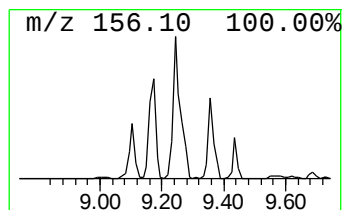
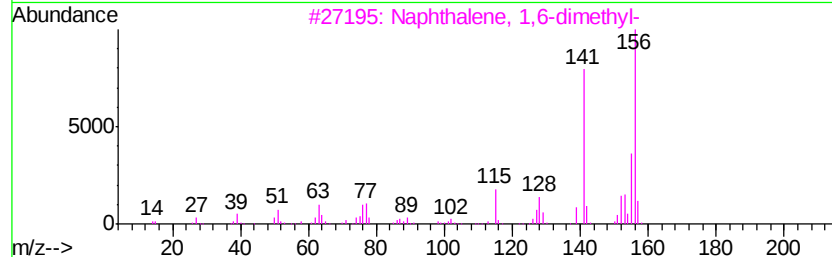
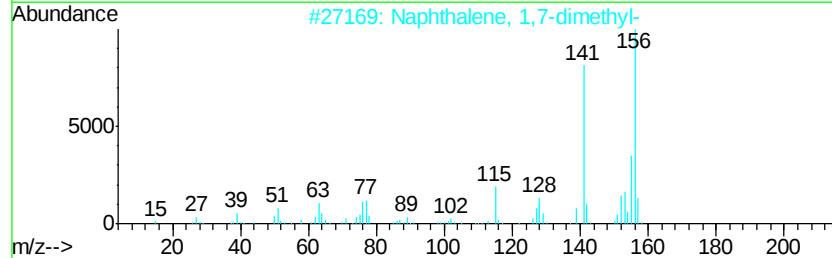
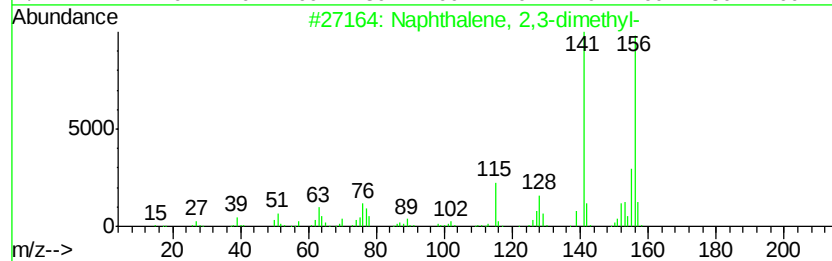
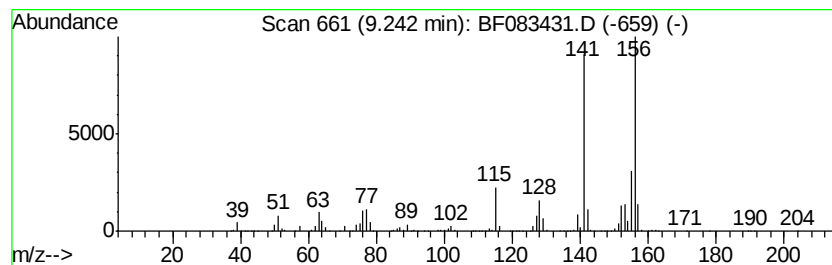
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ClientSampleId :
SB-P3WC-01(8-12.5)

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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 9 Naphthalene, 2,3-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.24	47.70 ng	6323190	Acenaphthene-d10	9.57
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 2,3-dimethyl-	156 C12H12	000581-40-8 98
2		Naphthalene, 1,7-dimethyl-	156 C12H12	000575-37-1 98
3		Naphthalene, 1,6-dimethyl-	156 C12H12	000575-43-9 98
4		Naphthalene, 2,6-dimethyl-	156 C12H12	000581-42-0 97
5		Naphthalene, 1,2-dimethyl-	156 C12H12	000573-98-8 97



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120215\
Data File : BF083431.D
Acq On : 2 Dec 2015 21:49
Operator : UM/IZ
Sample : G4582-02
Misc :
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Instrument :
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ClientSampleId :
SB-P3WC-01(8-12.5)

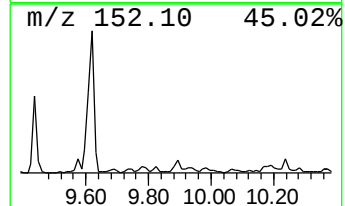
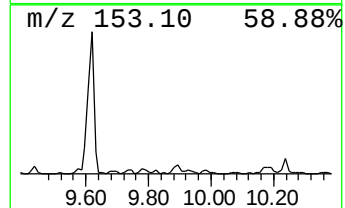
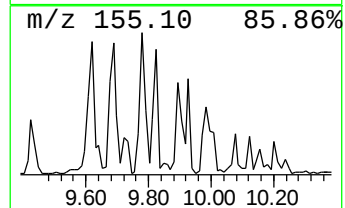
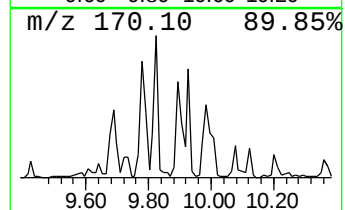
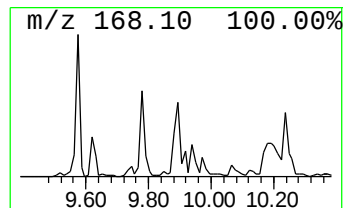
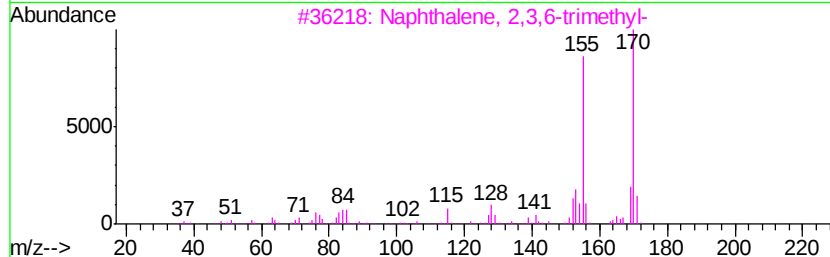
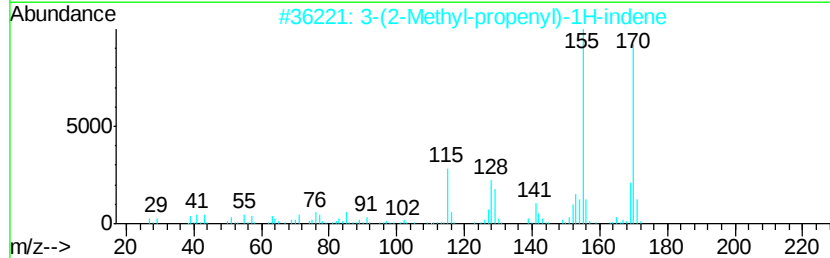
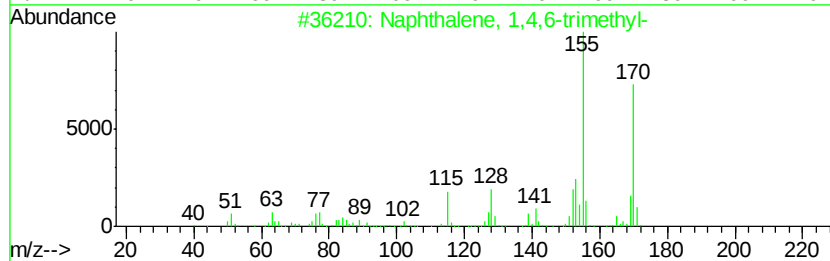
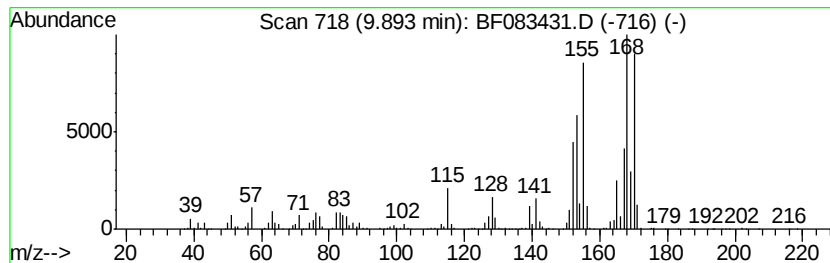
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Naphthalene, 1,4,6-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.89	16.36 ng	2168950	Acenaphthene-d10	9.57

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	89
2		3-(2-Methyl-propenyl)-1H-indene	170	C13H14	1000187-78-5	60
3		Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	50
4		Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	50
5		Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	50



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120215\
Data File : BF083431.D
Acq On : 2 Dec 2015 21:49
Operator : UM/IZ
Sample : G4582-02
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SB-P3WC-01(8-12.5)

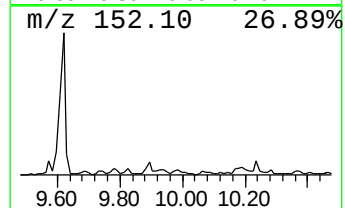
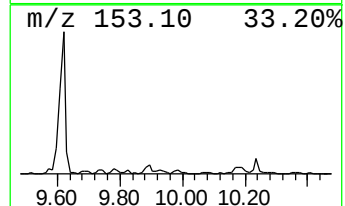
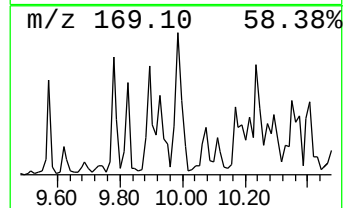
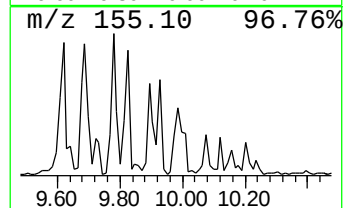
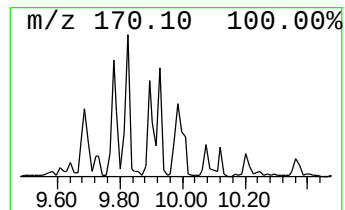
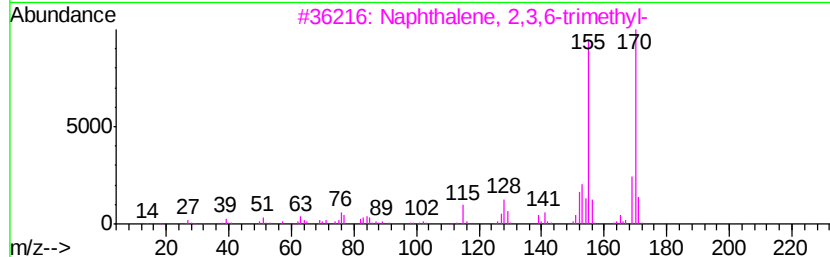
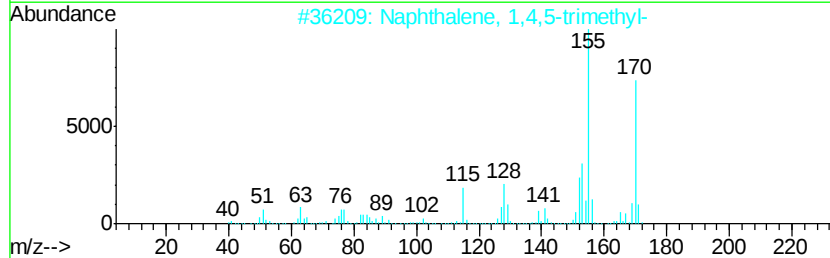
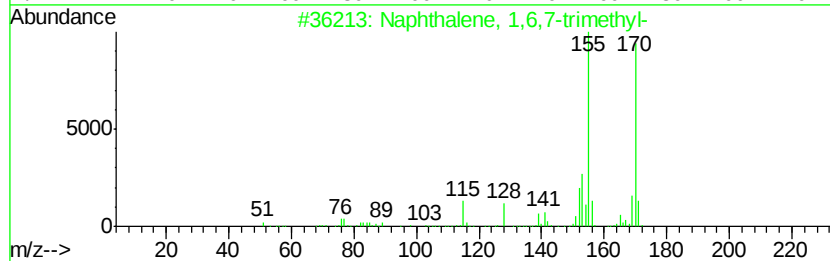
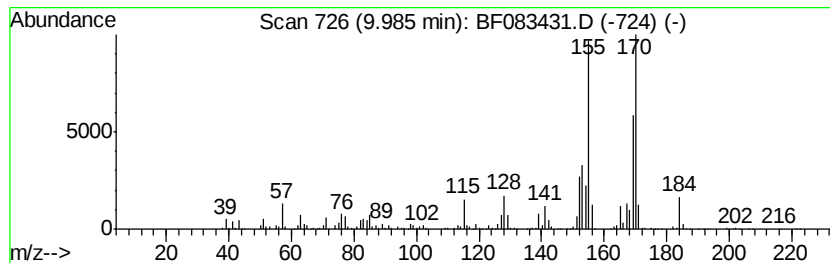
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Naphthalene, 1,6,7-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.98	11.60 ng	1538320	Acenaphthene-d10	9.57

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	94
2			Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	93
3			Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	81
4			Azulene, 4,6,8-trimethyl-	170	C13H14	000941-81-1	81
5			Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	76



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120215\
Data File : BF083431.D
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SB-P3WC-01(8-12.5)

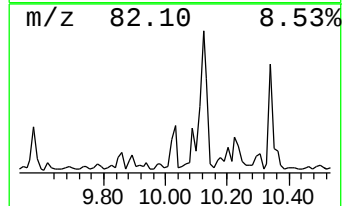
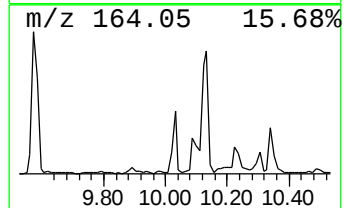
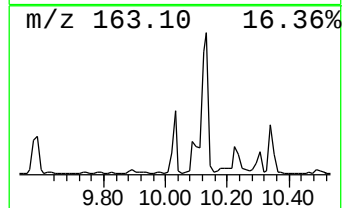
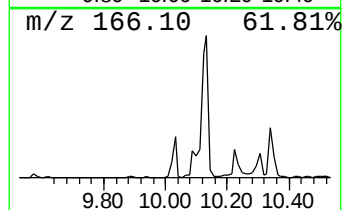
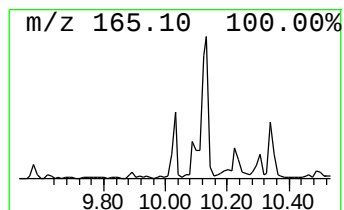
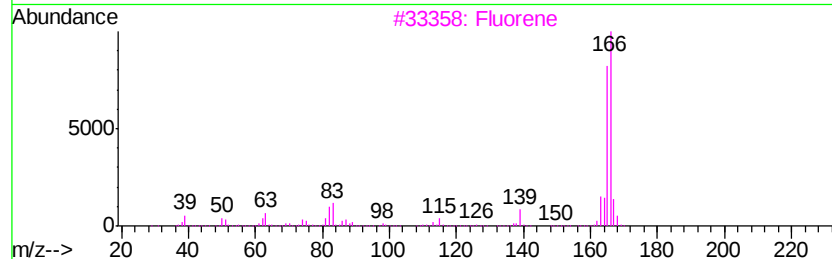
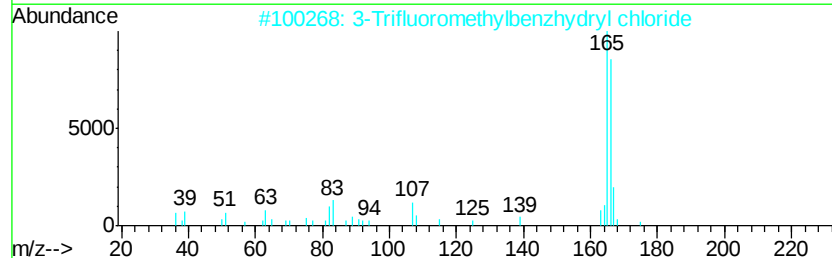
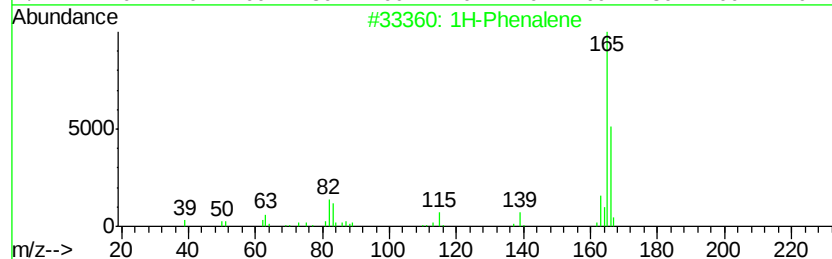
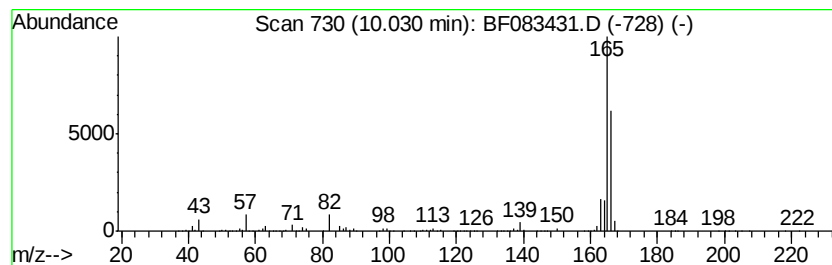
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 1H-Phenalene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.03	12.60 ng	1670410	Acenaphthene-d10	9.57

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1H-Phenalene	166	C13H10	000203-80-5	78
2		3-Trifluoromethylbenzhvdrvl chlo...	270	C14H10ClF3	067240-79-3	72
3		Fluorene	166	C13H10	000086-73-7	58
4		9H-Fluorene, 9-bromo-	244	C13H9Br	001940-57-4	42
5		s-Triazolo[4,3-a]pyridine-3-thio...	165	C7H7N3S	004926-22-1	28



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120215\
Data File : BF083431.D
Acq On : 2 Dec 2015 21:49
Operator : UM/IZ
Sample : G4582-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

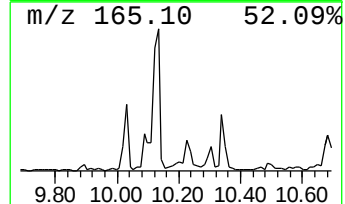
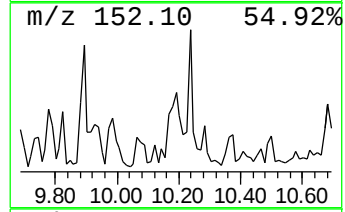
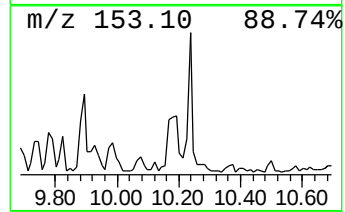
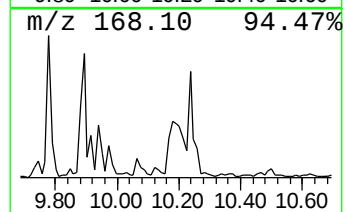
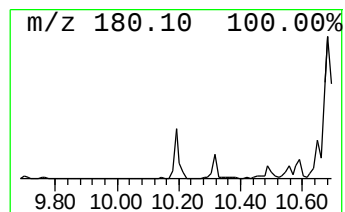
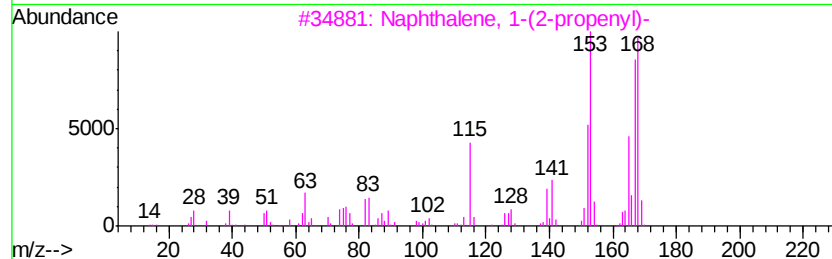
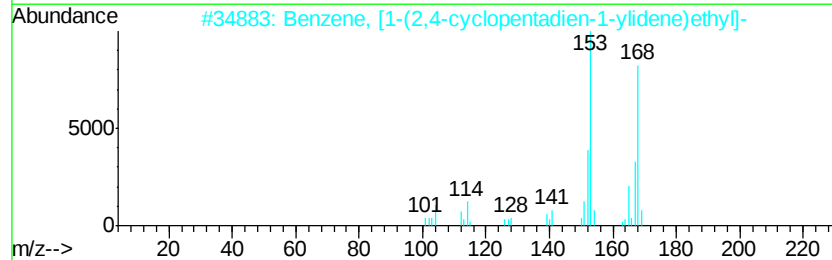
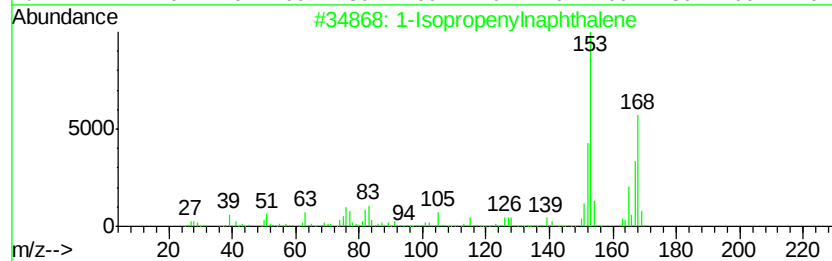
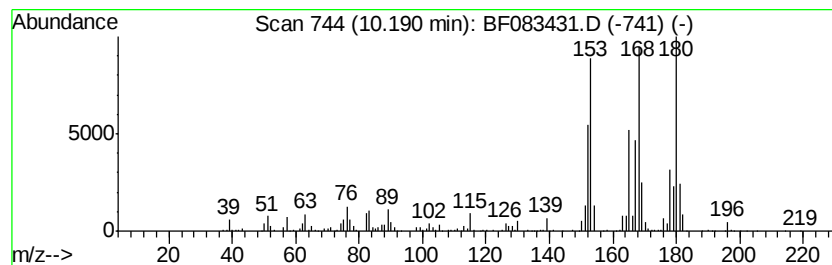
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ClientSampleId :
SB-P3WC-01(8-12.5)

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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 1-Isopropenylnaphthalene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.19	11.57 ng	1533880	Acenaphthene-d10	9.57
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		1-Isopropenylnaphthalene	168 C13H12	001855-47-6 50
2		Benzene, [1-(2,4-cyclopentadien-...	168 C13H12	002320-32-3 43
3		Naphthalene, 1-(2-propenyl)-	168 C13H12	002489-86-3 41
4		1,1'-Biphenyl, 3-methyl-	168 C13H12	000643-93-6 38
5		9H-Fluorene, 1-methyl-	180 C14H12	001730-37-6 30



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120215\
Data File : BF083431.D
Acq On : 2 Dec 2015 21:49
Operator : UM/IZ
Sample : G4582-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

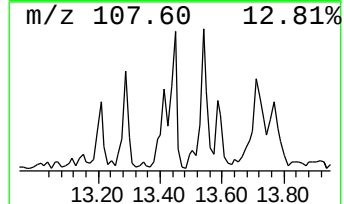
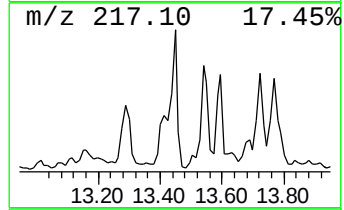
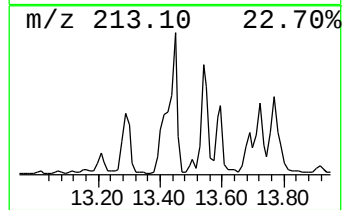
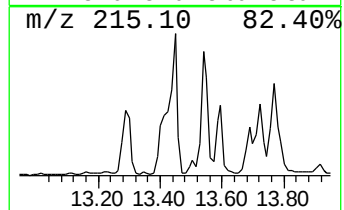
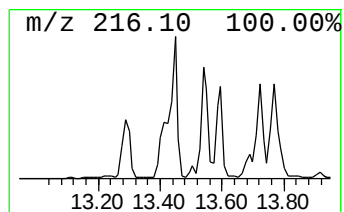
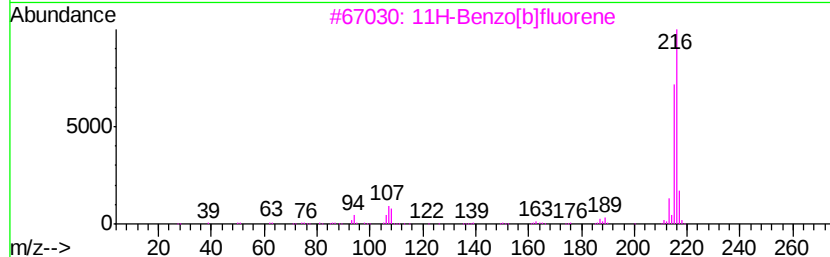
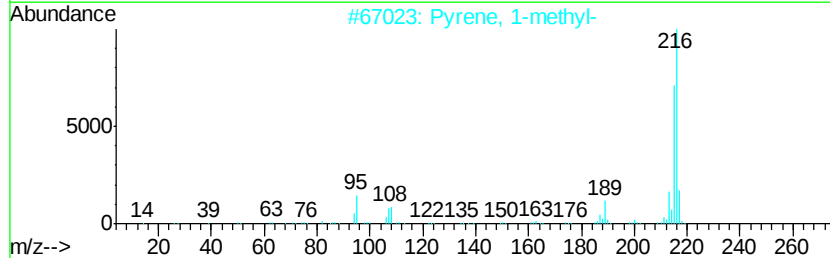
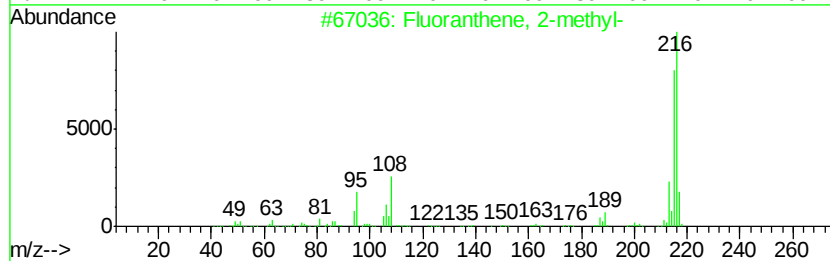
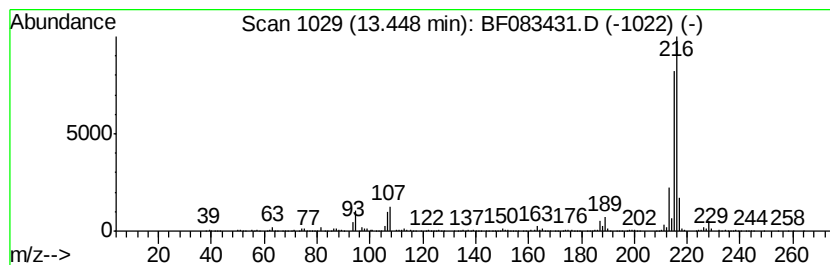
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Fluoranthene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.45	12.38 ng	4260960	Chrysene-d12	14.74	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120215\
Data File : BF083431.D
Acq On : 2 Dec 2015 21:49
Operator : UM/IZ
Sample : G4582-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-01(8-12.5)

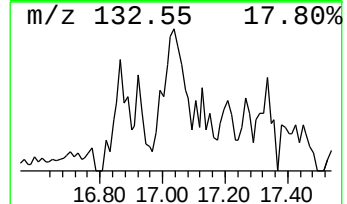
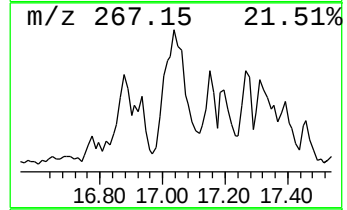
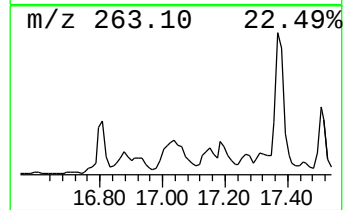
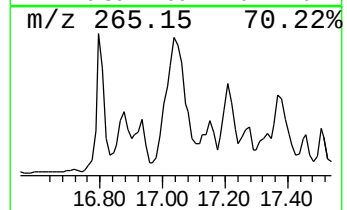
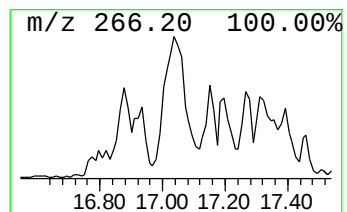
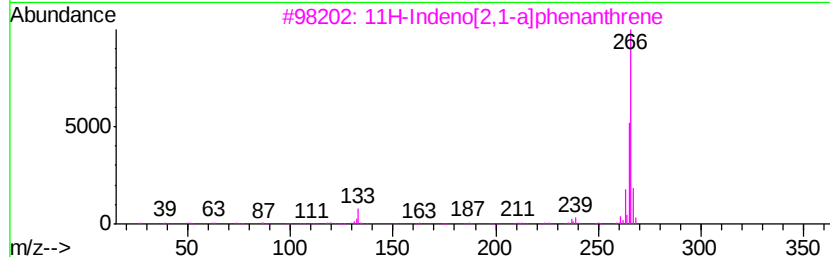
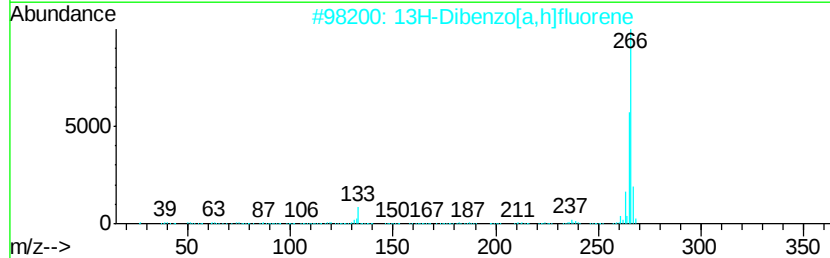
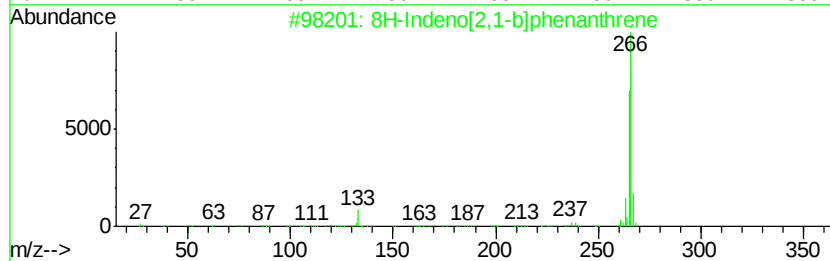
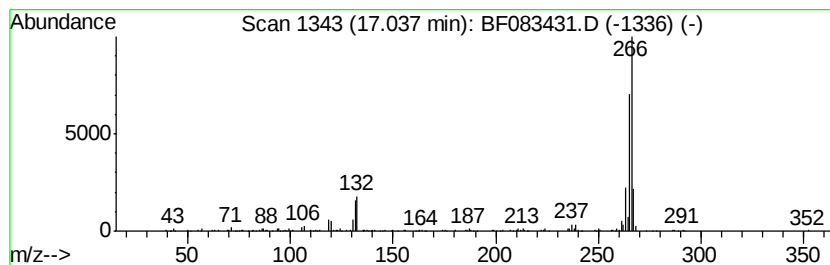
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 8H-Indeno[2,1-b]phenanthrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.04	21.47 ng	1114410	Perylene-d12	16.80

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	94
2		13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	94
3		11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	90
4		Thiazole, 4-phenyl-2-(4-tolylami...	266	C16H14N2S	016098-04-7	72
5		4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	59



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120215\
Data File : BF083431.D
Acq On : 2 Dec 2015 21:49
Operator : UM/IZ
Sample : G4582-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SB-P3WC-01(8-12.5)

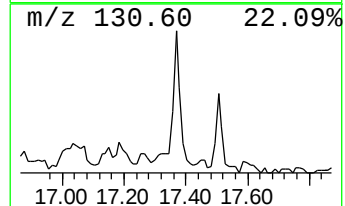
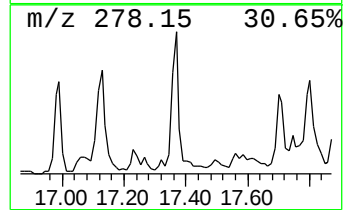
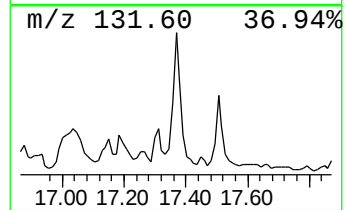
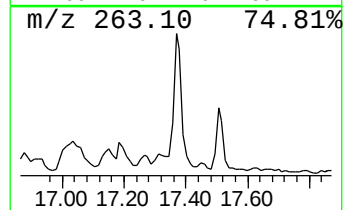
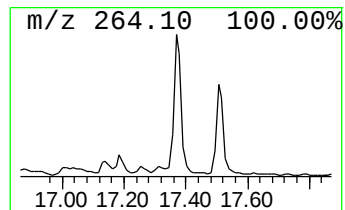
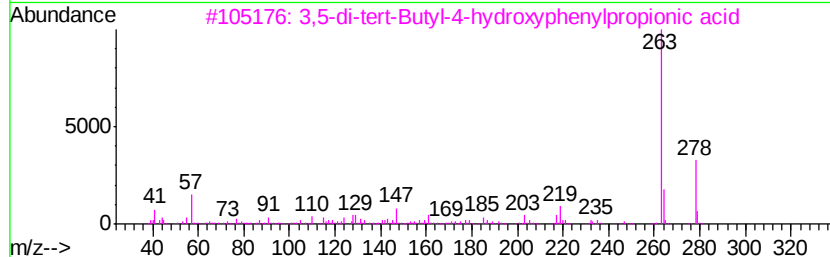
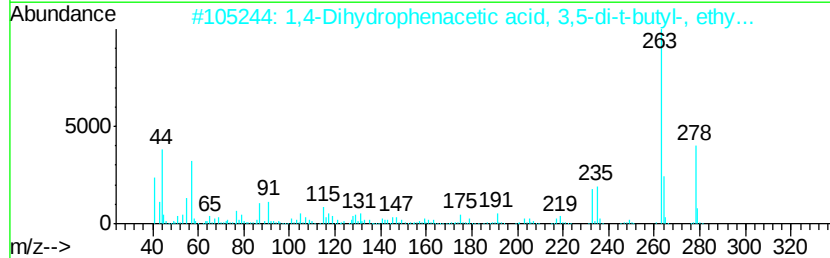
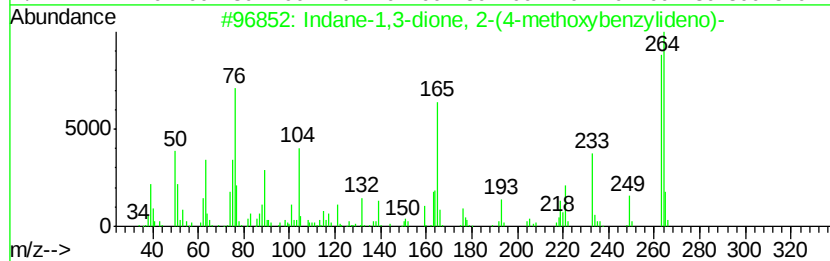
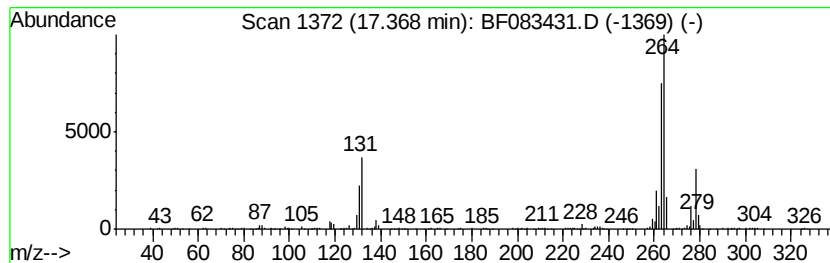
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 unknown17.37 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.37	18.35 ng	952282	Perylene-d12	16.80

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Indane-1,3-dione, 2-(4-methoxybe...	264	C17H12O3	007421-76-3	47
2		1,4-Dihydrophenacetic acid, 3,5-...	278	C18H30O2	1000130-28-6	27
3		3,5-di-tert-Butyl-4-hydroxyphenyl...	278	C17H26O3	020170-32-5	27
4		Oxamide, N-(4-tert-butylphenyl)-...	278	C15H22N2O3	1000276-93-1	27
5		2-(4-Bromoanilino)-1-cyclopenten...	262	C12H11BrN2	191980-05-9	25



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120215\
Data File : BF083431.D
Acq On : 2 Dec 2015 21:49
Operator : UM/IZ
Sample : G4582-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SB-P3WC-01(8-12.5)

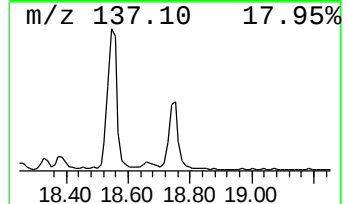
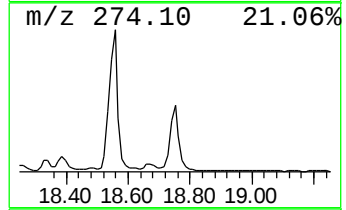
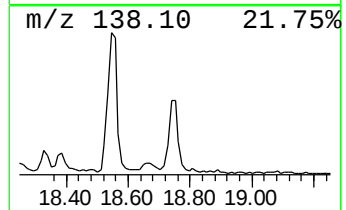
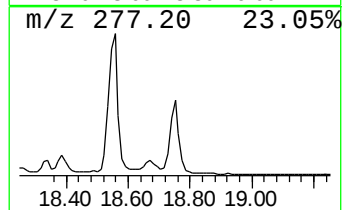
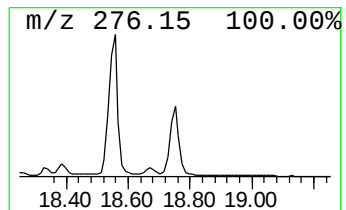
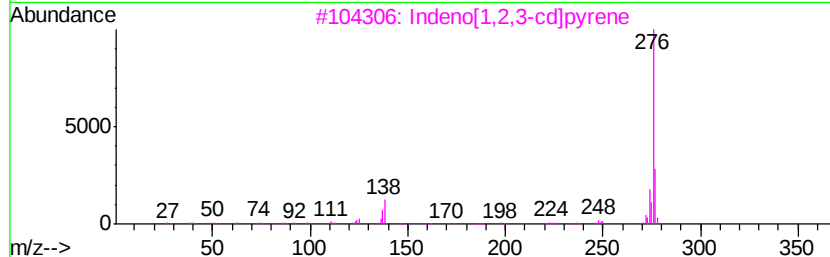
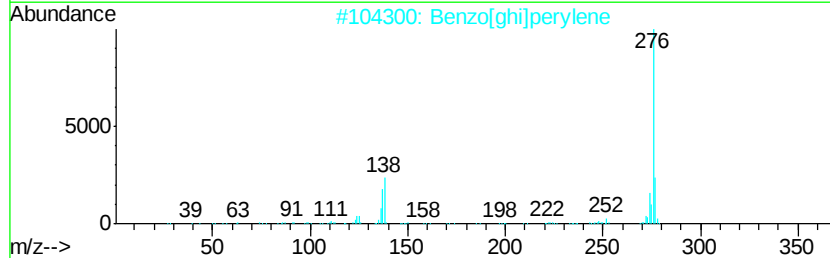
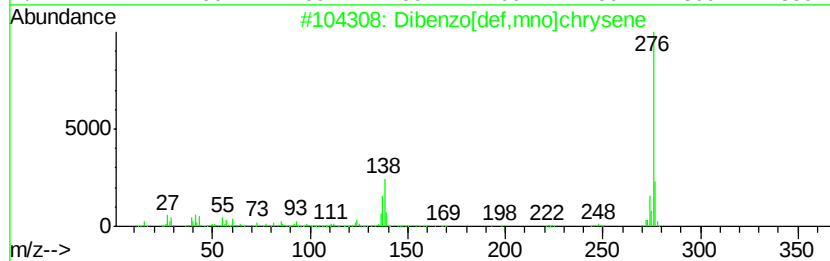
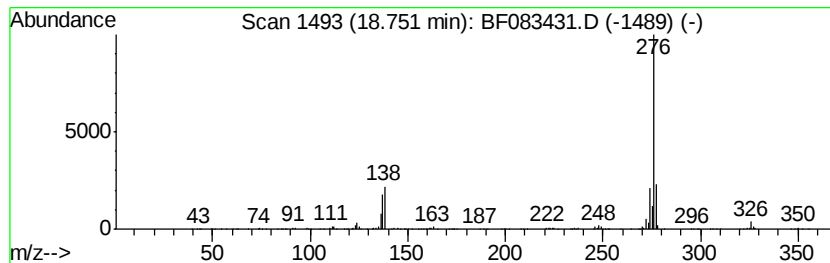
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.75	19.37 ng	1005260	Perylene-d12	16.80

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	94
2		Benzo[ghi]perylene	276	C22H12	000191-24-2	94
3		Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	83
4		Phenol, 2-(4-chlorophenyl)iminome...	276	C13H9ClN2O3	1000262-90-3	59
5		Naphthalen-1-yl-(3-nitro-benzyl)li...	276	C17H12N2O2	200421-53-0	50



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120215\
 Data File : BF083431.D
 Acq On : 2 Dec 2015 21:49
 Operator : UM/IZ
 Sample : G4582-02
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113015.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
2-Pentanone, 4-hy...	4.65	44.9	ng	2099490	1	6.53	935502	20.0
unknown6.32	6.32	124.1	ng	5803240	1	6.53	935502	20.0
Benzene, 1,2-diet...	6.80	12.0	ng	559624	1	6.53	935502	20.0
Benzene, 2-ethyl-...	6.88	12.2	ng	570091	1	6.53	935502	20.0
Naphthalene, 2-et...	9.10	27.9	ng	3705320	3	9.57	2651450	20.0
Naphthalene, 1,6-...	9.17	29.5	ng	3906860	3	9.57	2651450	20.0
Naphthalene, 2,3-...	9.24	47.7	ng	6323190	3	9.57	2651450	20.0
Naphthalene, 1,4,...	9.89	16.4	ng	2168950	3	9.57	2651450	20.0
Naphthalene, 1,6,...	9.98	11.6	ng	1538320	3	9.57	2651450	20.0
1H-Phenalene	10.03	12.6	ng	1670410	3	9.57	2651450	20.0
1-Isopropenyl naph...	10.19	11.6	ng	1533880	3	9.57	2651450	20.0
Fluoranthene, 2-m...	13.45	12.4	ng	4260960	5	14.74	6881200	20.0
8H-Indeno[2,1-b]p...	17.04	21.5	ng	1114410	6	16.80	1037930	20.0
unknown17.37	17.37	18.4	ng	952282	6	16.80	1037930	20.0
Dibenzo[def,mno]c...	18.75	19.4	ng	1005260	6	16.80	1037930	20.0