

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
 Data File : BG017272.D
 Acq On : 23 May 2015 8:31
 Operator : TP/IZ
 Sample : G2359-02 2X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-28S

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_G\METHODS\8270-BG051315.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	2.852	24	28	33	rBV	43959	59198	1.60%	0.140%
2	5.285	436	442	452	rVB	286691	414644	11.24%	0.983%
3	6.889	708	715	725	rBV	300061	471095	12.77%	1.117%
4	7.224	765	772	781	rVB	302653	464654	12.60%	1.102%
5	7.682	843	850	856	rBV	143442	218842	5.93%	0.519%
6	7.999	898	904	911	rBV	212056	331607	8.99%	0.786%
7	8.839	1040	1047	1055	rBV	182232	294091	7.97%	0.697%
8	10.473	1318	1325	1330	rBV	191838	310832	8.43%	0.737%
9	10.520	1330	1333	1339	rVB	48490	76058	2.06%	0.180%
10	12.141	1602	1609	1615	rBV	42178	63148	1.71%	0.150%
11	12.359	1640	1646	1653	rVB	34239	53560	1.45%	0.127%
12	12.952	1740	1747	1754	rBV	396709	573962	15.56%	1.361%
13	13.651	1860	1866	1871	rBV2	35803	61236	1.66%	0.145%
14	14.333	1973	1982	1988	rBV2	264471	422353	11.45%	1.001%
15	14.398	1988	1993	2000	rVB	234527	326482	8.85%	0.774%
16	14.733	2044	2050	2058	rBV	166628	242847	6.58%	0.576%
17	15.379	2154	2160	2171	rBV	250833	363245	9.85%	0.861%
18	15.673	2207	2210	2218	rVB	66685	99259	2.69%	0.235%
19	15.825	2230	2236	2243	rVV2	404229	590563	16.01%	1.400%
20	16.054	2270	2275	2284	rVB5	39799	72074	1.95%	0.171%
21	16.366	2320	2328	2329	rBV3	37446	66120	1.79%	0.157%
22	16.389	2329	2332	2336	rVV4	48393	73351	1.99%	0.174%
23	16.613	2367	2370	2374	rVV3	34760	58029	1.57%	0.138%
24	16.654	2374	2377	2381	rVV3	36355	56584	1.53%	0.134%
25	16.736	2385	2391	2398	rVV	108726	162224	4.40%	0.385%
26	16.812	2399	2404	2405	rVV2	38142	49775	1.35%	0.118%
27	16.830	2405	2407	2412	rVV4	42090	66555	1.80%	0.158%
28	16.901	2414	2419	2428	rVB	125973	196348	5.32%	0.466%
29	17.083	2444	2450	2453	rBV	318473	488234	13.24%	1.158%
30	17.130	2453	2458	2463	rVV	2229905	3096045	83.93%	7.341%
31	17.212	2463	2472	2477	rVV	560580	824099	22.34%	1.954%
32	17.271	2477	2482	2487	rVB4	44432	72778	1.97%	0.173%
33	17.488	2515	2519	2530	rVV	194287	322227	8.74%	0.764%
34	17.600	2531	2538	2544	rVV5	47423	85727	2.32%	0.203%

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Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG051315.M
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35	17.658	2544	2548	2557	rVB4	40204	72713	1.97%	0.172%
36	17.952	2590	2598	2602	rBV	220534	346332	9.39%	0.821%
37	18.005	2602	2607	2612	rVV	310096	463701	12.57%	1.099%
38	18.087	2614	2621	2626	rBV	121513	188670	5.11%	0.447%
39	18.152	2626	2632	2636	rVV3	326376	589130	15.97%	1.397%
40	18.187	2636	2638	2645	rVB	138808	164274	4.45%	0.390%
41	18.270	2646	2652	2656	rBV5	38185	65236	1.77%	0.155%
42	18.458	2680	2684	2688	rBV	168959	223804	6.07%	0.531%
43	18.499	2688	2691	2696	rVB	165635	218159	5.91%	0.517%
44	18.704	2722	2726	2730	rVB	59382	73031	1.98%	0.173%
45	18.757	2731	2735	2738	rVV	46981	58558	1.59%	0.139%
46	18.798	2738	2742	2746	rVB2	46283	67007	1.82%	0.159%
47	18.881	2751	2756	2760	rVV	111027	207635	5.63%	0.492%
48	18.945	2763	2767	2769	rVV4	66145	106650	2.89%	0.253%
49	18.969	2769	2771	2775	rVV	47936	54272	1.47%	0.129%
50	19.022	2775	2780	2787	rVB2	109139	186580	5.06%	0.442%
51	19.151	2795	2802	2808	rBV	2656514	3688727	100.00%	8.746%
52	19.210	2808	2812	2814	rBV2	41801	50709	1.37%	0.120%
53	19.245	2814	2818	2823	rVB2	57925	80929	2.19%	0.192%
54	19.339	2829	2834	2837	rBV4	39984	78031	2.12%	0.185%
55	19.386	2837	2842	2846	rVB	83711	120129	3.26%	0.285%
56	19.509	2852	2863	2871	rBV2	2046113	3642146	98.74%	8.636%
57	19.574	2871	2874	2881	rVB2	111831	182406	4.94%	0.433%
58	19.709	2889	2897	2901	rBV2	637649	960212	26.03%	2.277%
59	19.744	2901	2903	2909	rVB	113308	150148	4.07%	0.356%
60	19.832	2911	2918	2925	rBV3	148397	377557	10.24%	0.895%
61	19.962	2935	2940	2943	rVV5	105070	197880	5.36%	0.469%
62	20.003	2943	2947	2953	rVB	309389	483661	13.11%	1.147%
63	20.103	2959	2964	2968	rBV	228830	307508	8.34%	0.729%
64	20.161	2968	2974	2978	rVV2	196351	347040	9.41%	0.823%
65	20.197	2978	2980	2984	rVV2	64742	76504	2.07%	0.181%
66	20.238	2985	2987	2991	rVB2	46467	55631	1.51%	0.132%
67	20.297	2993	2997	3001	rBV	98464	134816	3.65%	0.320%
68	20.344	3001	3005	3010	rVV2	99131	139176	3.77%	0.330%
69	20.461	3022	3025	3031	rVB3	48999	72760	1.97%	0.173%
70	20.520	3031	3035	3038	rBV3	64494	76133	2.06%	0.181%
71	20.590	3038	3047	3050	rBV9	62256	159547	4.33%	0.378%

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Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
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Stop Thrs : 0 Peak Location: TOP

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72	20.708	3063	3067	3070	rBV5	47885	76032	2.06%	0.180%
73	20.749	3070	3074	3080	rVB	191971	280181	7.60%	0.664%
74	20.913	3095	3102	3105	rBV2	218978	378710	10.27%	0.898%
75	20.949	3105	3108	3111	rVV	198090	269557	7.31%	0.639%
76	20.984	3111	3114	3120	rVV3	212659	439527	11.92%	1.042%
77	21.043	3120	3124	3129	rVB2	210909	304981	8.27%	0.723%
78	21.254	3151	3160	3165	rBV3	1609014	2829369	76.70%	6.709%
79	21.307	3165	3169	3178	rVB	1261648	1667038	45.19%	3.953%
80	21.419	3184	3188	3194	rBV2	216963	279311	7.57%	0.662%
81	21.530	3204	3207	3211	rVB	92083	114676	3.11%	0.272%
82	21.583	3211	3216	3220	rBV2	123938	229791	6.23%	0.545%
83	21.760	3242	3246	3249	rBV2	56795	78957	2.14%	0.187%
84	21.812	3249	3255	3259	rVV	221881	357890	9.70%	0.849%
85	21.865	3259	3264	3269	rVB2	133863	232690	6.31%	0.552%
86	21.930	3273	3275	3278	rVV3	59654	80716	2.19%	0.191%
87	21.965	3279	3281	3285	rVV3	78138	101542	2.75%	0.241%
88	22.012	3285	3289	3292	rVV	114709	177722	4.82%	0.421%
89	22.042	3292	3294	3301	rVB4	98292	140309	3.80%	0.333%
90	22.112	3301	3306	3311	rBV3	82744	137108	3.72%	0.325%
91	22.300	3334	3338	3343	rBV4	60543	121143	3.28%	0.287%
92	22.847	3424	3431	3436	rBV	958611	2237692	60.66%	5.306%
93	23.011	3454	3459	3467	rVB	185201	301837	8.18%	0.716%
94	23.146	3478	3482	3489	rBV3	64311	160325	4.35%	0.380%
95	23.328	3507	3513	3521	rVB	540494	1042984	28.27%	2.473%
96	23.428	3523	3530	3537	rVV	815136	1501014	40.69%	3.559%
97	23.522	3540	3546	3550	rVV	293203	584777	15.85%	1.387%
98	23.569	3550	3554	3561	rVB2	250015	517066	14.02%	1.226%
99	25.825	3928	3938	3947	rVB	392464	1136683	30.82%	2.695%
100	26.530	4049	4058	4069	rVB	261769	799360	21.67%	1.895%

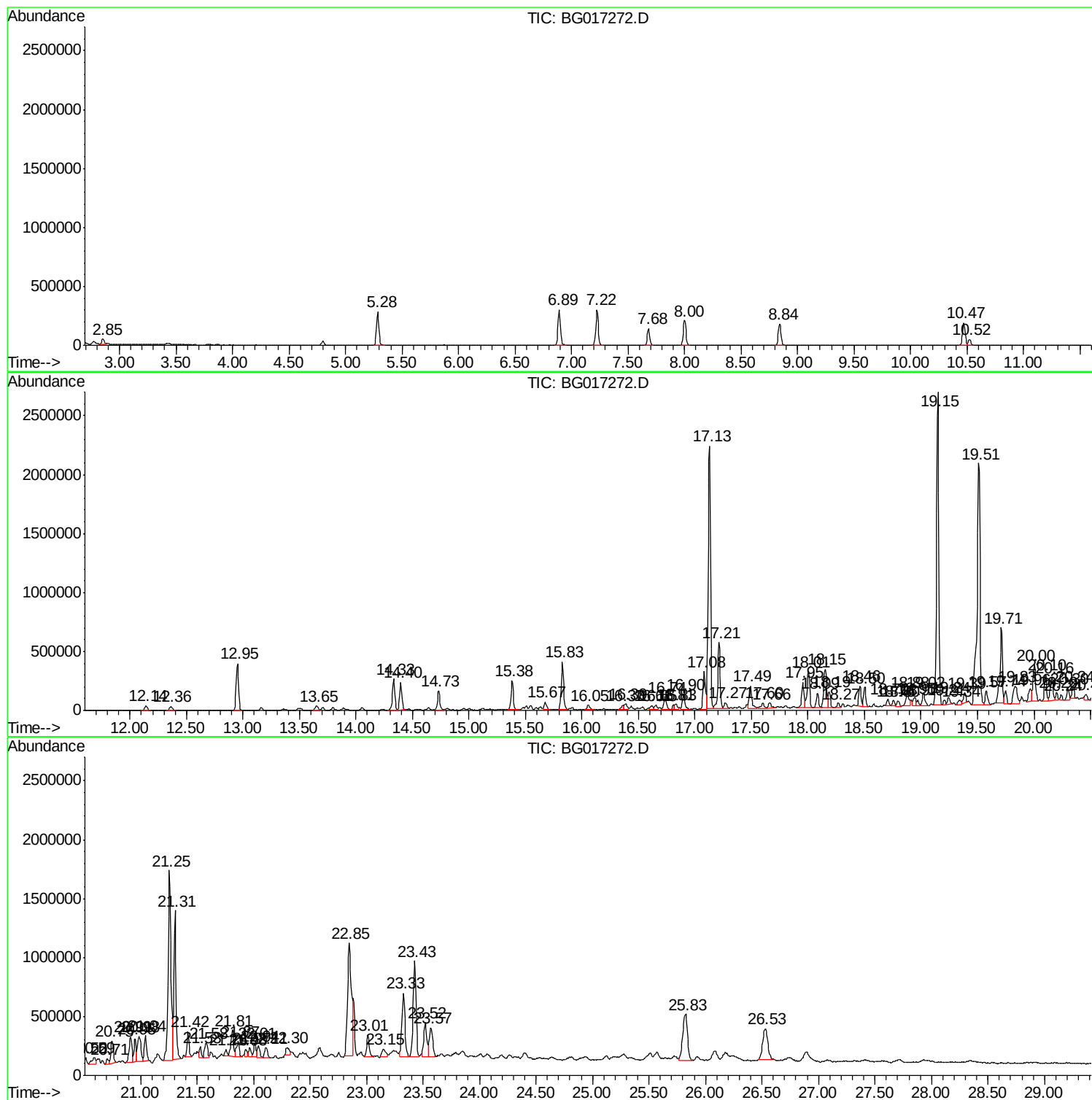
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG051315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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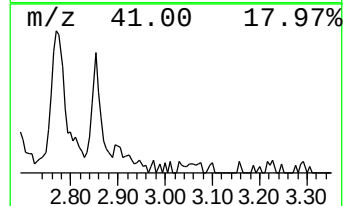
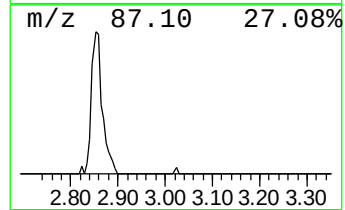
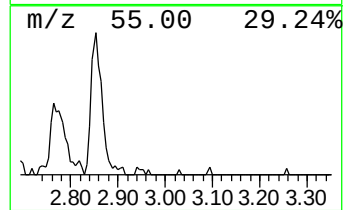
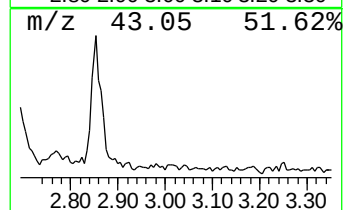
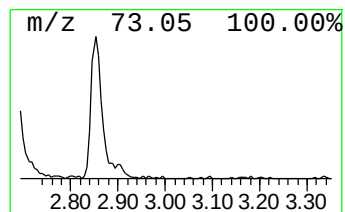
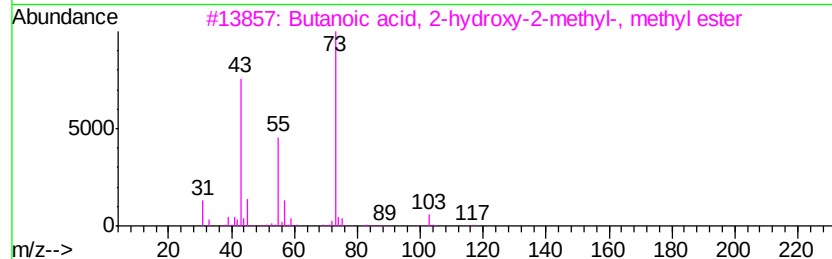
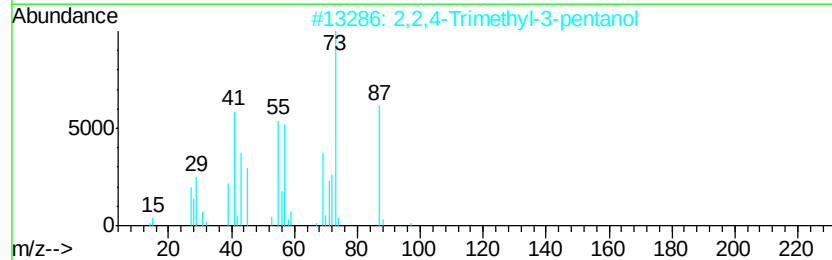
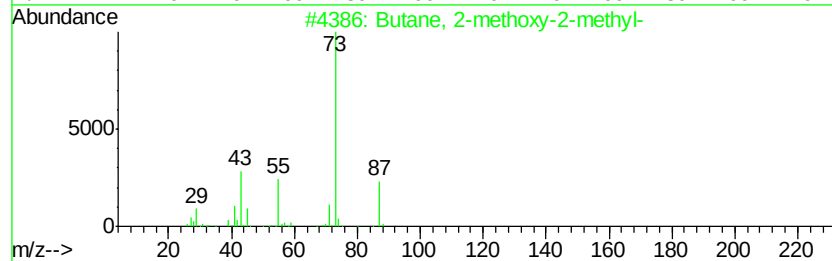
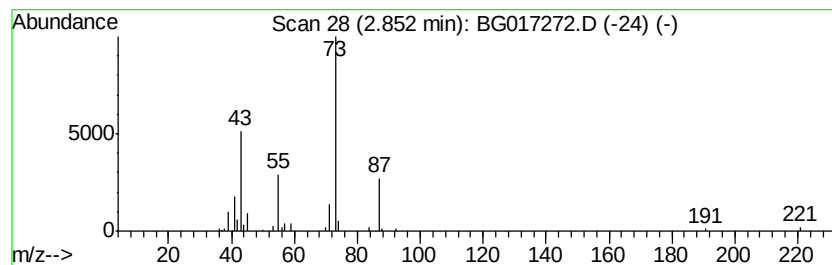
Instrument :
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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG051315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.	
2.85	5.41 ng	59198	1,4-Dichlorobenzene-d4	7.68	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	72
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	Butanoic acid, 2-hydroxy-2-methyl-	132	C6H12O3	032793-34-3	25
4	4-Isopropoxy-2-butanone	130	C7H14O2	032541-58-5	25
5	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	17



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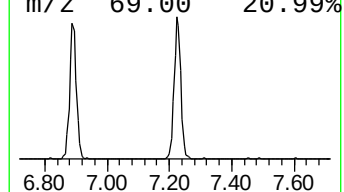
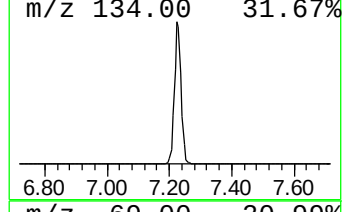
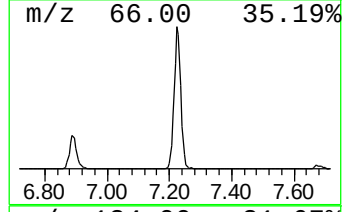
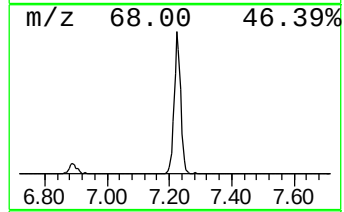
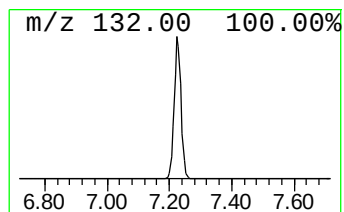
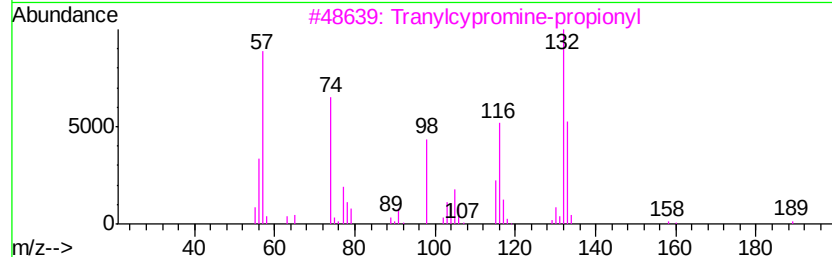
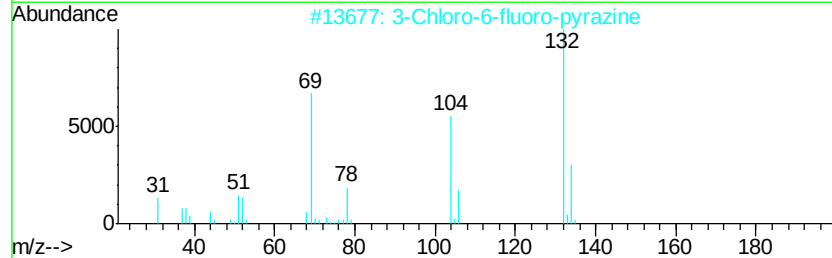
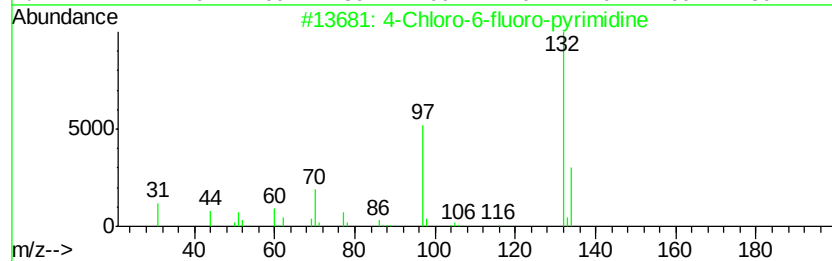
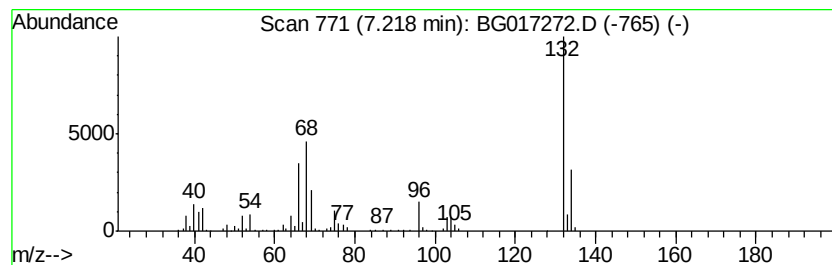
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG051315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 unknown7.22 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.22	42.46 ng	464654	1,4-Dichlorobenzene-d4	7.68

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
2		3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
3		Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	22
4		Pyrazolo(2,3-a)pyridine, 7-methyl-	132	C8H8N2	034760-58-2	22
5		1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22



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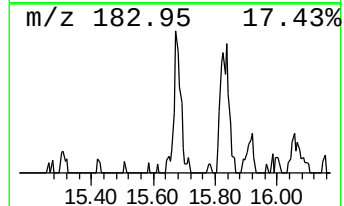
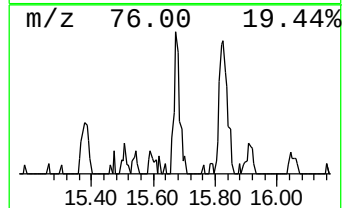
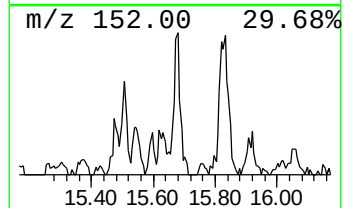
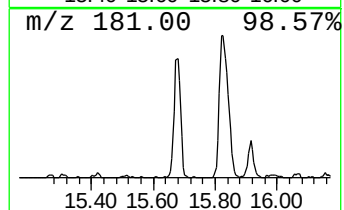
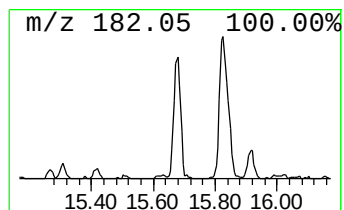
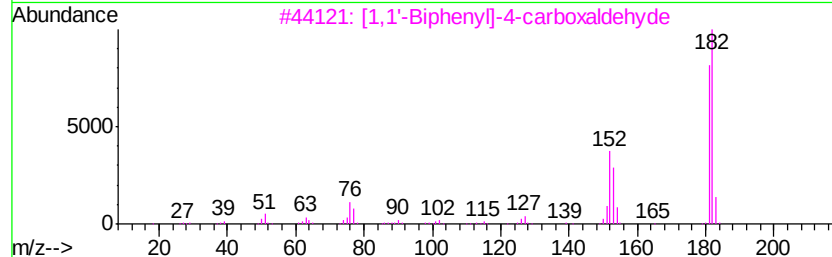
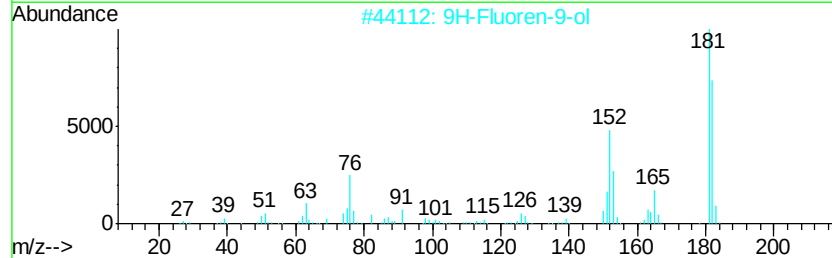
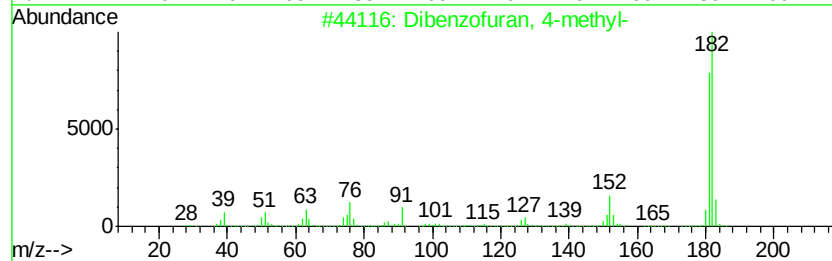
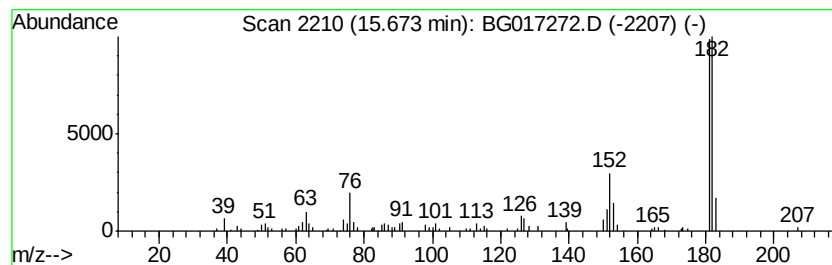
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG051315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Dibenzofuran, 4-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.67	4.70 ng	99259	Acenaphthene-d10	14.33

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	94
2		9H-Fluoren-9-ol	182	C13H10O	001689-64-1	91
3		[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
4		2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	72
5		2-Hydroxyfluorene	182	C13H10O	002443-58-5	72



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
Data File : BG017272.D
Acq On : 23 May 2015 8:31
Operator : TP/IZ
Sample : G2359-02 2X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SB-28S

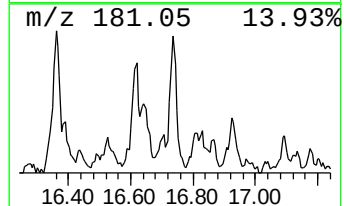
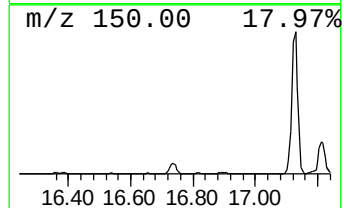
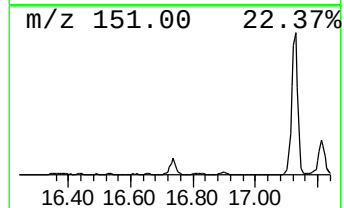
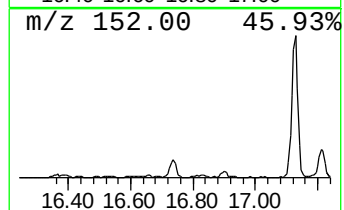
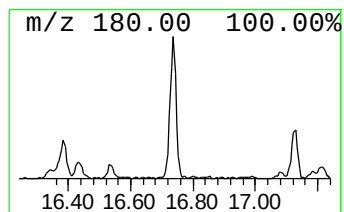
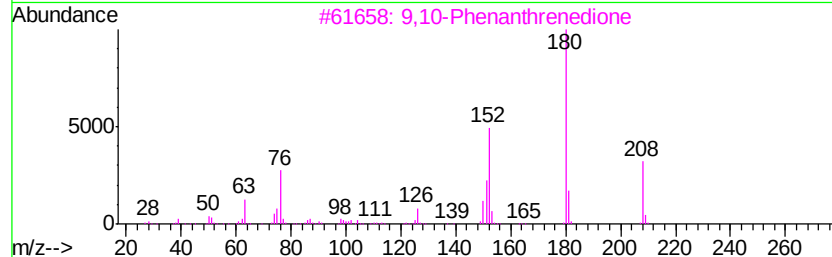
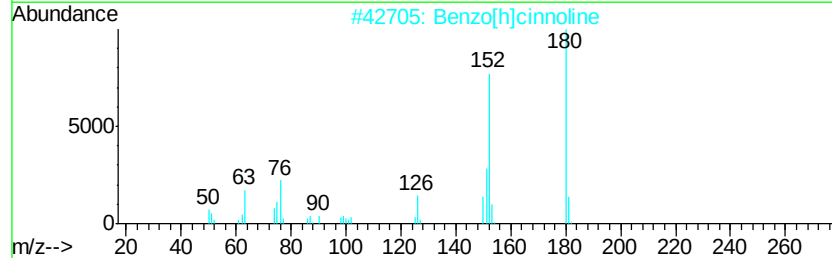
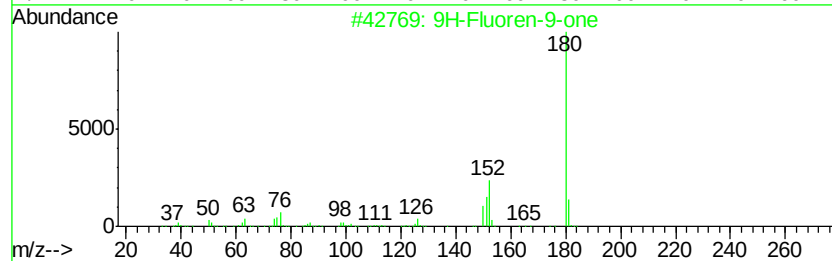
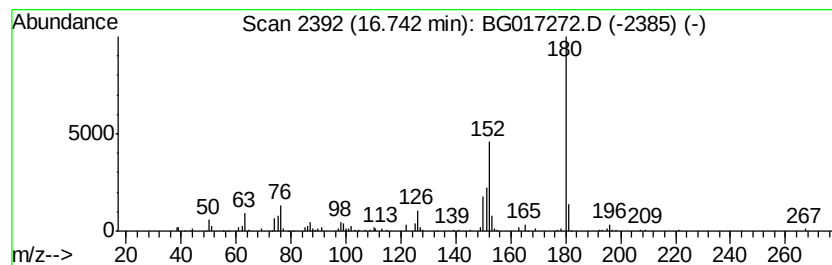
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 9H-Fluoren-9-one Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.74	6.65 ng	162224	Phenanthrene-d10	17.08

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87
3		9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	83
4		1,3-Benzenedicarboxaldehyde, 2,4...	180	C9H8O4	010209-57-1	64
5		2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	58



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
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Sample : G2359-02 2X
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ALS Vial : 29 Sample Multiplier: 1

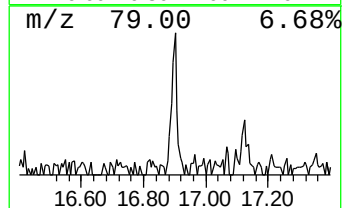
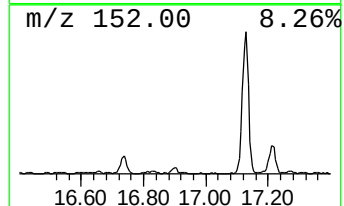
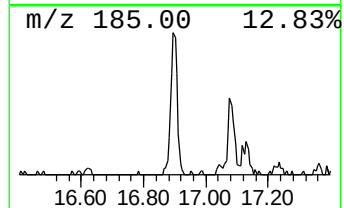
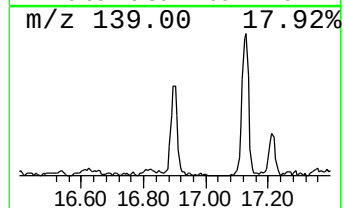
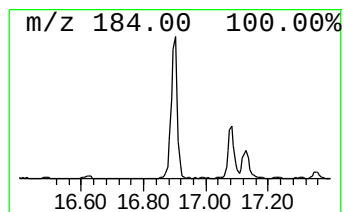
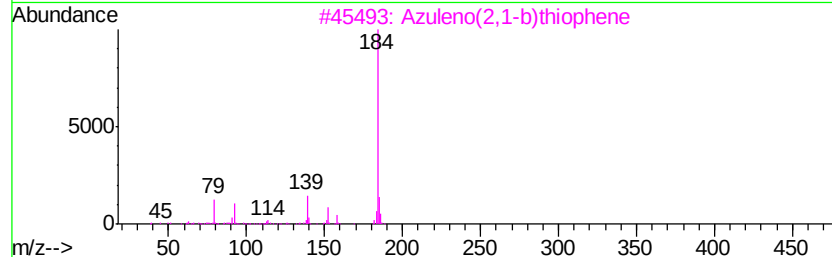
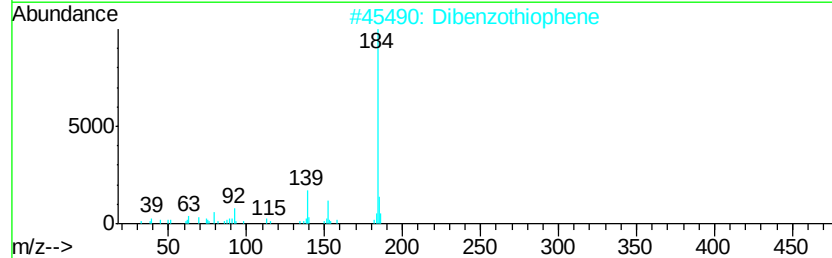
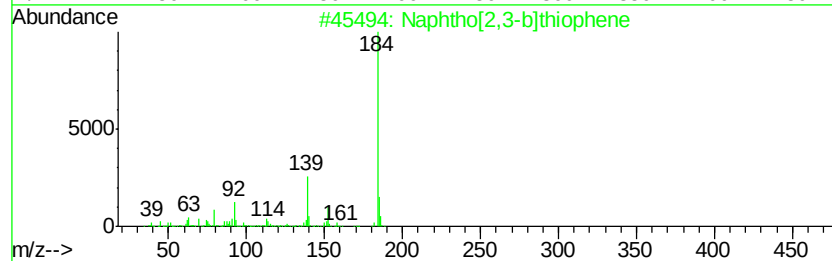
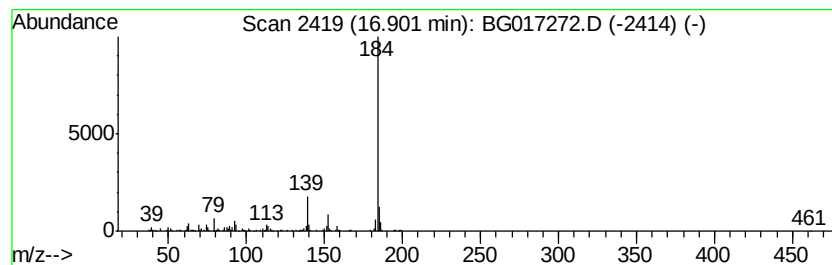
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Naphtho[2,3-b]thiophene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD		R.T.
16.90	8.04 ng	196348	Phenanthrene-d10		17.08
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	97
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90
4	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	80
5	Dibenzothiophene, 5-oxide	200	C12H8OS	001013-23-6	72



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
Data File : BG017272.D
Acq On : 23 May 2015 8:31
Operator : TP/IZ
Sample : G2359-02 2X
Misc :
ALS Vial : 29 Sample Multiplier: 1

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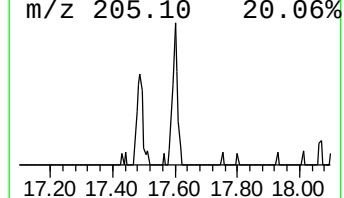
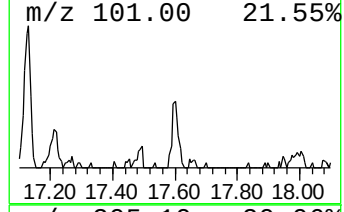
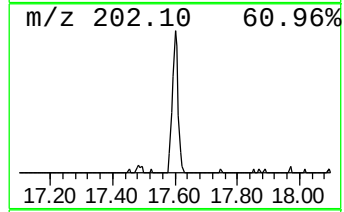
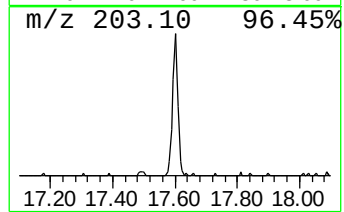
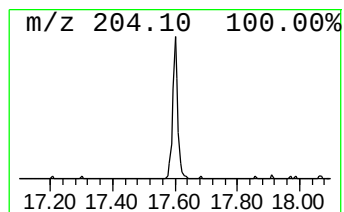
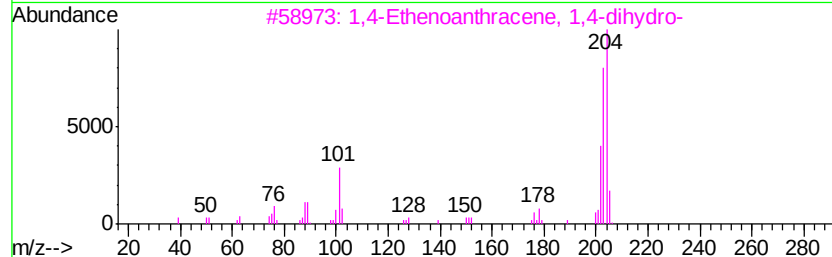
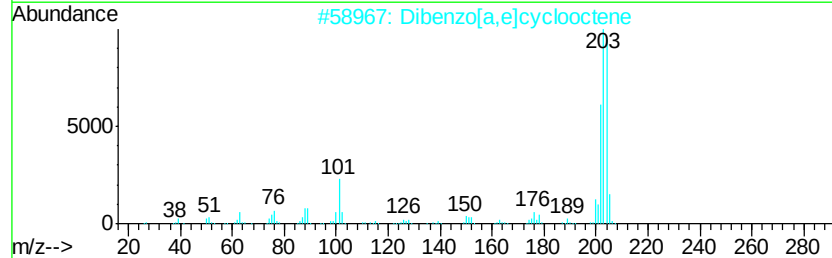
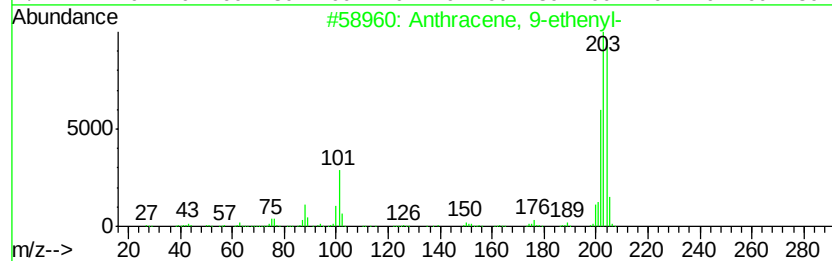
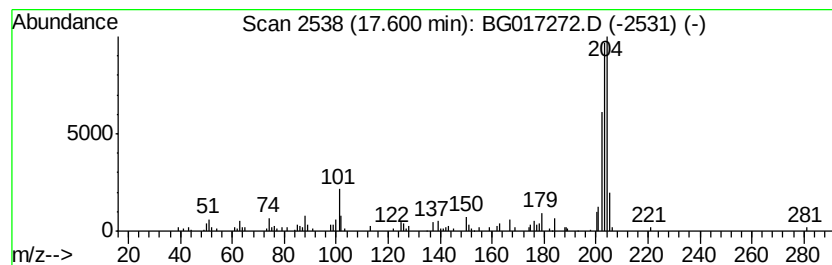
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Anthracene, 9-ethenyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.60	3.51 ng	85727	Phenanthrene-d10	17.08

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	89
2		Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	86
3		1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	76
4		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	76
5		1,2,4,8-Tetramethylbicyclo[6.3.0...]	204	C15H24	137235-51-9	74



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
Data File : BG017272.D
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Operator : TP/IZ
Sample : G2359-02 2X
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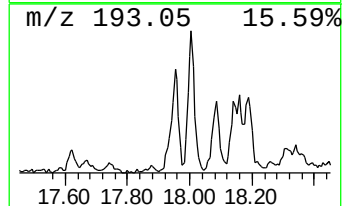
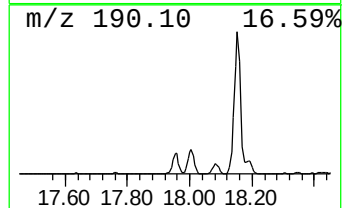
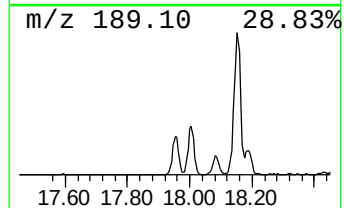
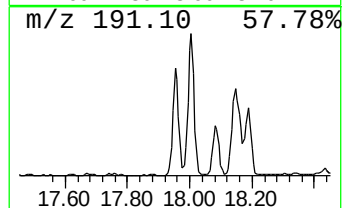
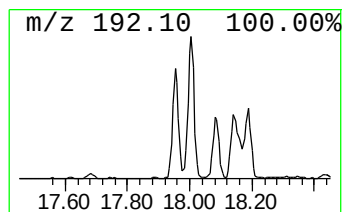
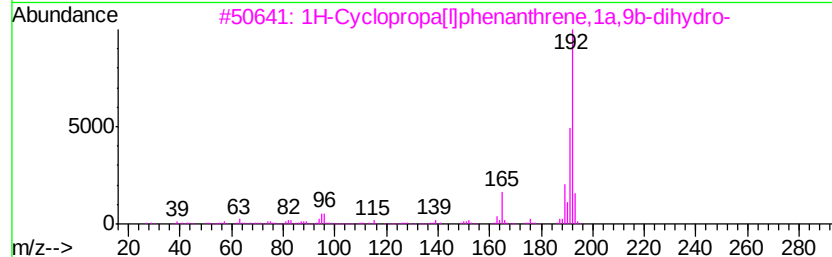
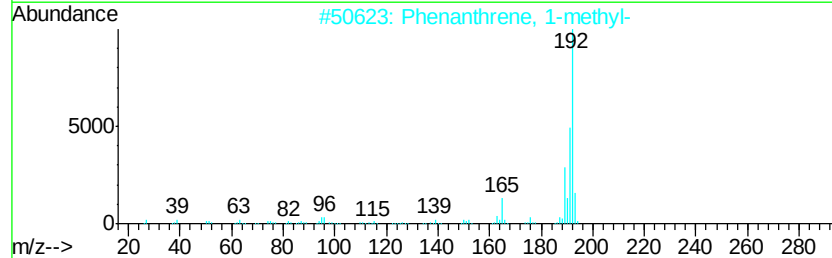
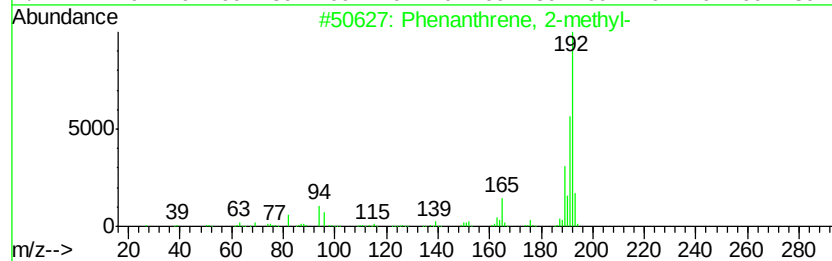
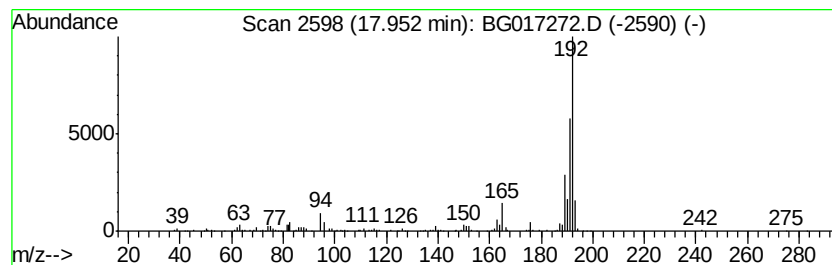
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
17.95	14.19 ng	346332	Phenanthrene-d10	17.08	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
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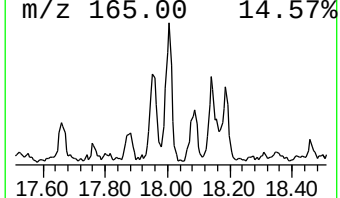
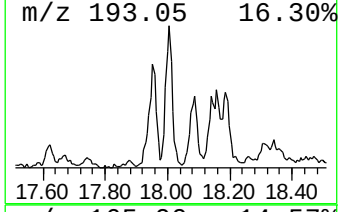
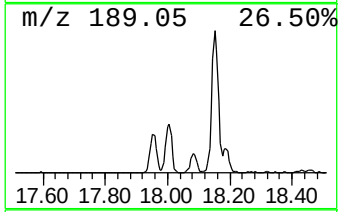
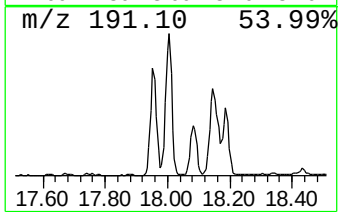
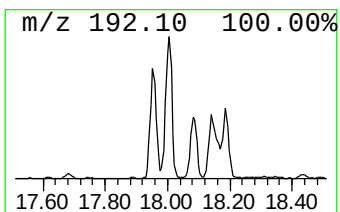
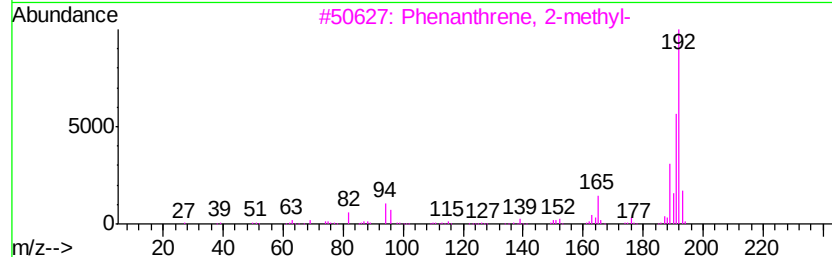
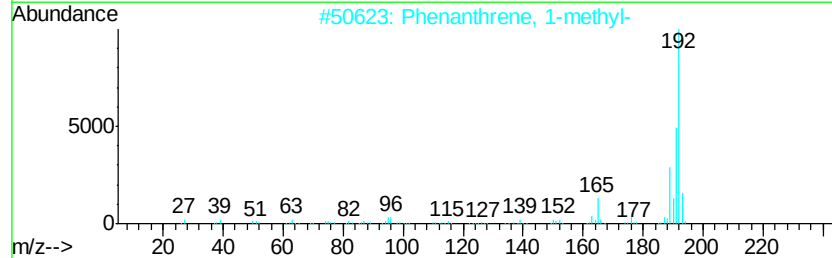
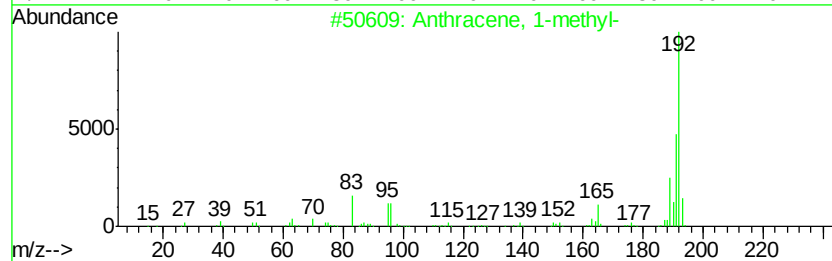
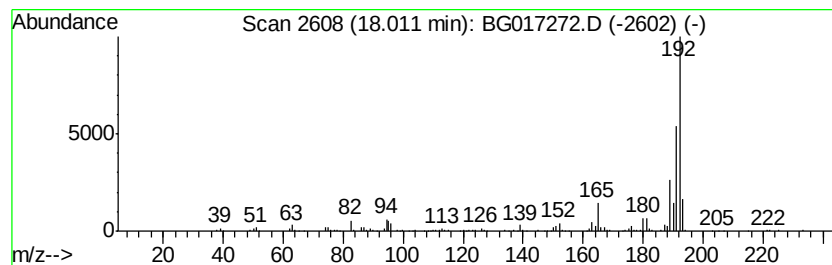
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Anthracene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.01	19.00 ng	463701	Phenanthrene-d10	17.08	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5	1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	90



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
Data File : BG017272.D
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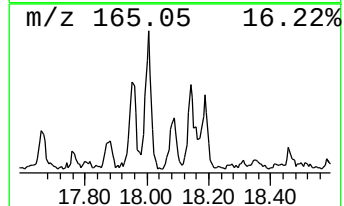
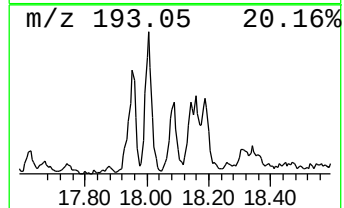
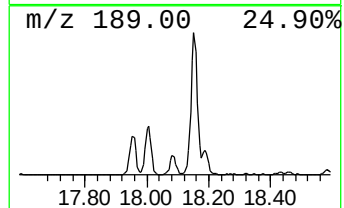
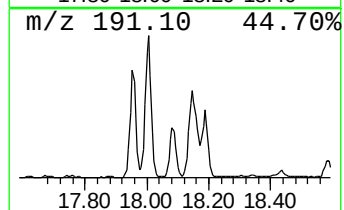
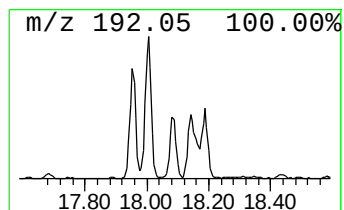
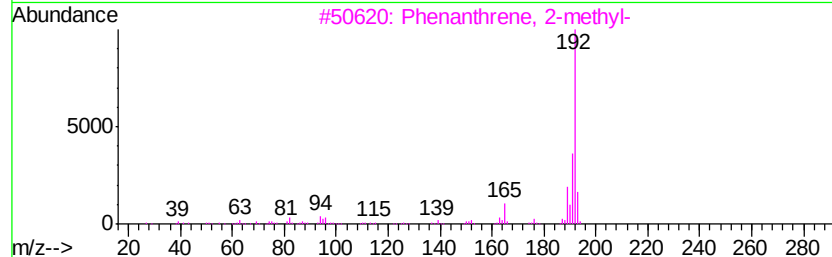
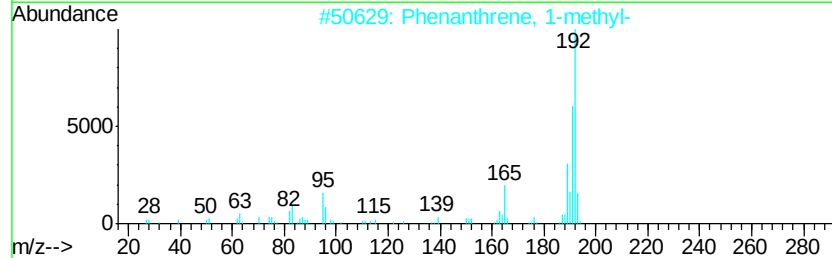
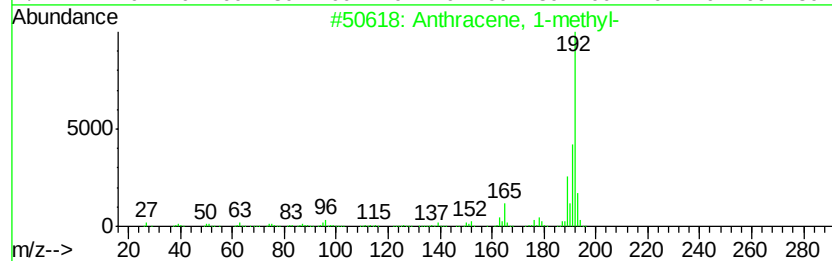
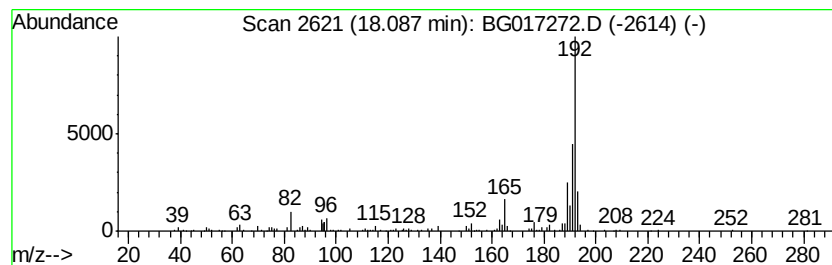
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.09	7.73 ng	188670	Phenanthrene-d10	17.08

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
2			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4			1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	95
5			Anthracene, 2-methyl-	192	C15H12	000613-12-7	93



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
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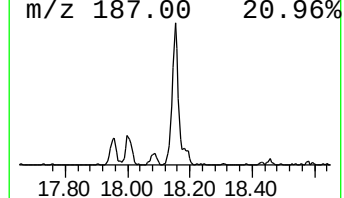
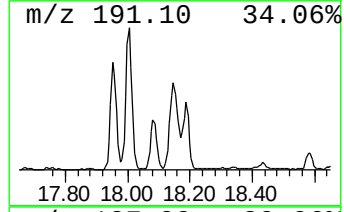
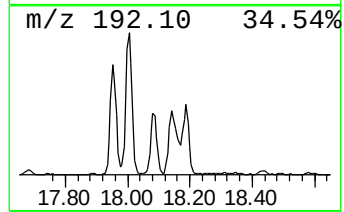
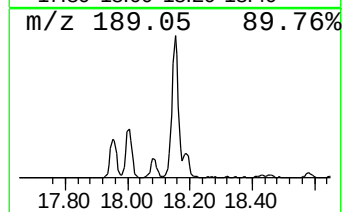
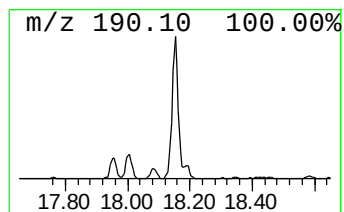
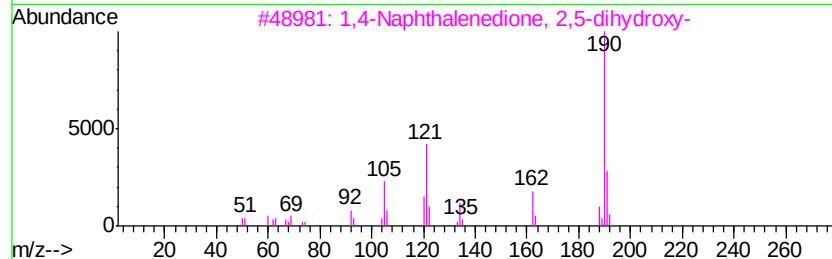
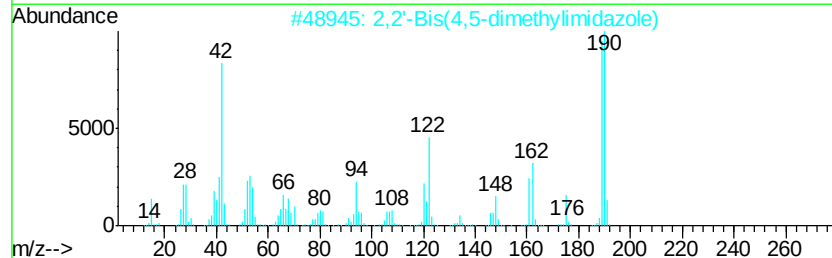
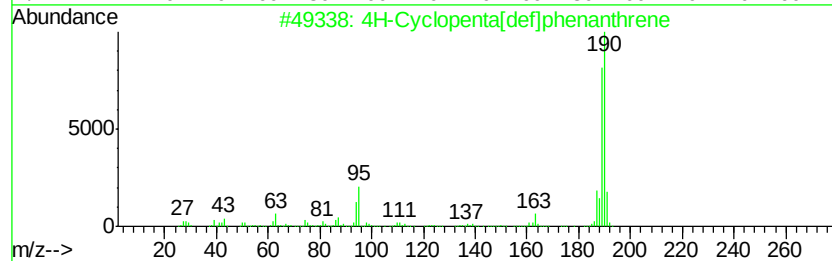
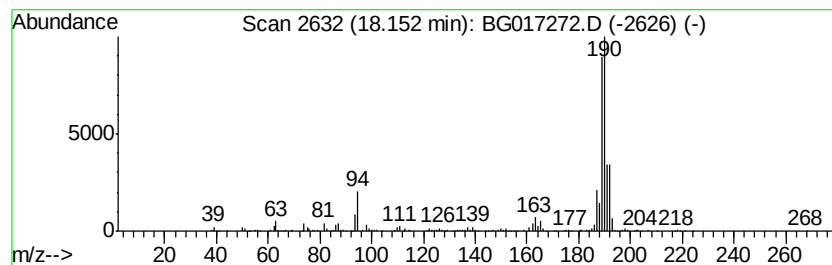
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.		
18.15	24.13 ng	589130	Phenanthrene-d10	17.08		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	76
2		2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	38
3		1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	35
4		4,4'-Difluorobiphenyl	190	C12H8F2	000398-23-2	23
5		2-Naphthaldehyde, 1,2,3,4-tetra...	190	C12H14O2	002472-02-8	18



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
Data File : BG017272.D
Acq On : 23 May 2015 8:31
Operator : TP/IZ
Sample : G2359-02 2X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SB-28S

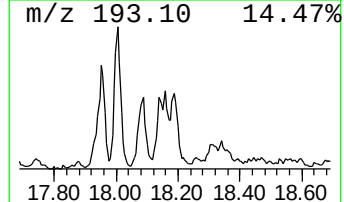
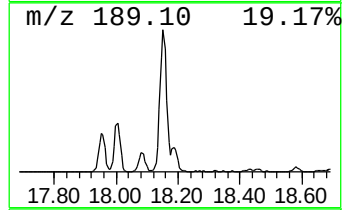
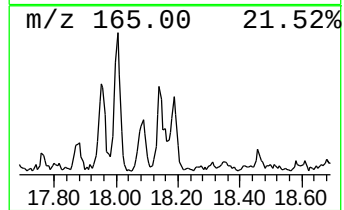
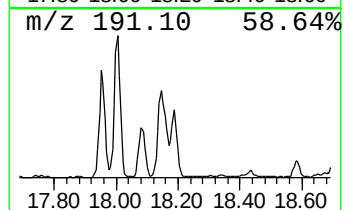
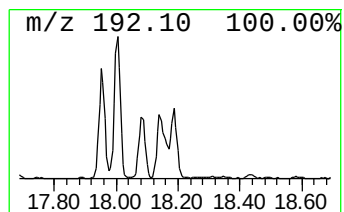
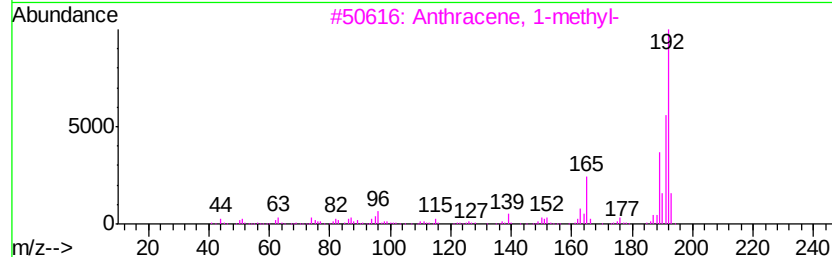
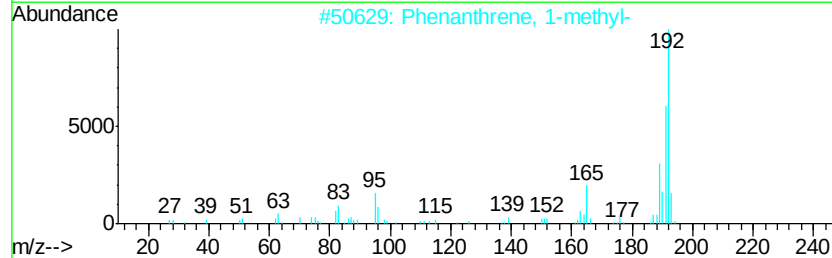
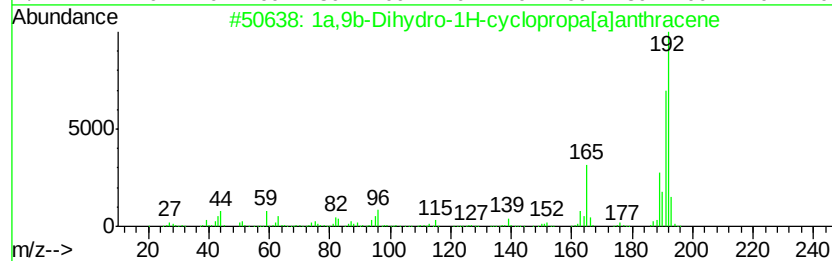
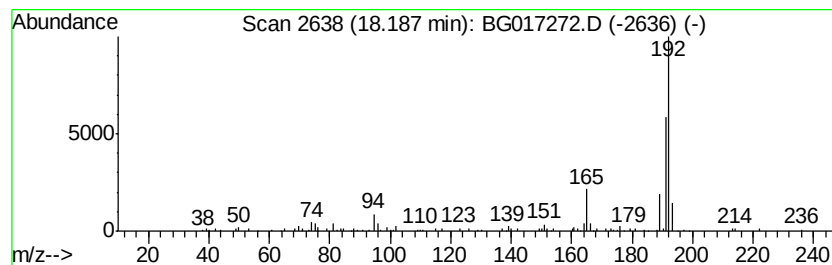
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 1a,9b-Dihydro-1H-cyclopropa... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.19	6.73 ng	164274	Phenanthrene-d10	17.08

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	83
2			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	83
3			Anthracene, 1-methyl-	192	C15H12	000610-48-0	83
4			1H-Cyclopropa[l]phenanthrene, 1a,...	192	C15H12	000949-41-7	80
5			1H-Indene, 3-phenyl-	192	C15H12	001961-97-3	72



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
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Operator : TP/IZ
Sample : G2359-02 2X
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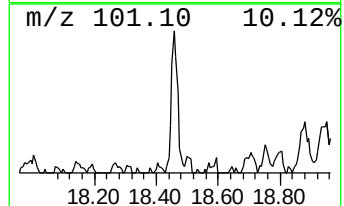
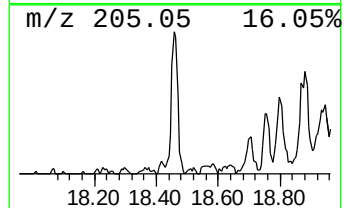
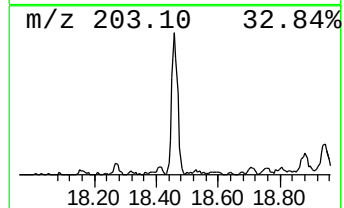
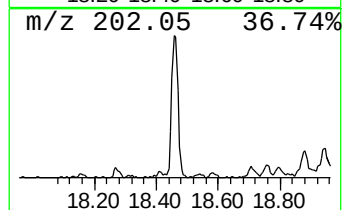
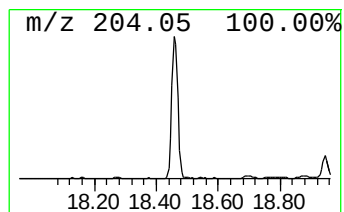
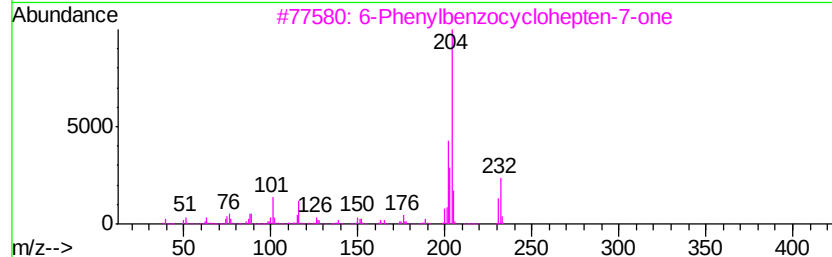
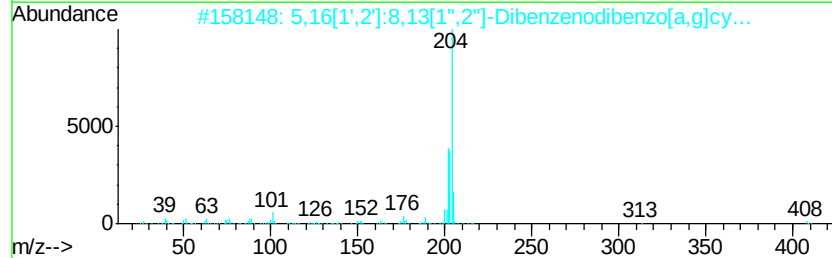
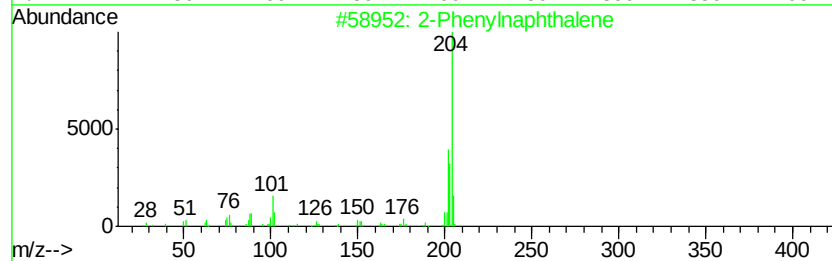
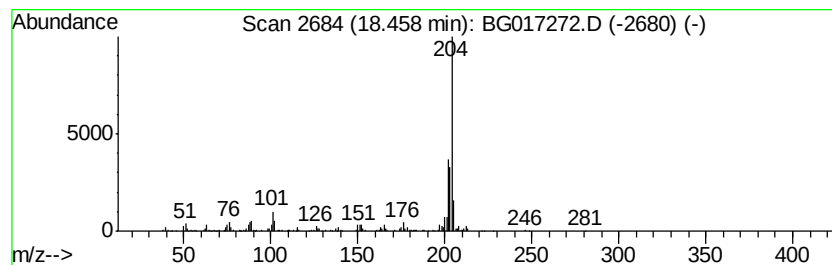
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG051315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 2-Phenylanthralene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.		
18.46	9.17 ng	223804	Phenanthrene-d10	17.08		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenyl	naphthalene	204	C16H12	035465-71-5	94
2	5,16[1',2']:	8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
3	6-Phenyl	benzocyclohepten-7-one	232	C17H12O	093327-56-1	90
4	Naphthalene,	2-phenyl-	204	C16H12	000612-94-2	89
5	Tricyclo[8.2.2.2(4,7)]	hexadeca-2...	204	C16H12	006572-60-7	81



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
Data File : BG017272.D
Acq On : 23 May 2015 8:31
Operator : TP/IZ
Sample : G2359-02 2X
Misc :
ALS Vial : 29 Sample Multiplier: 1

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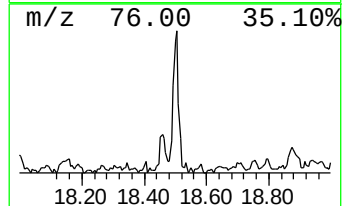
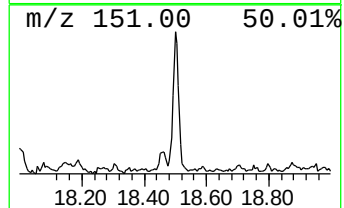
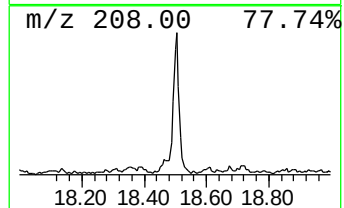
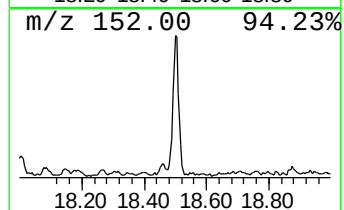
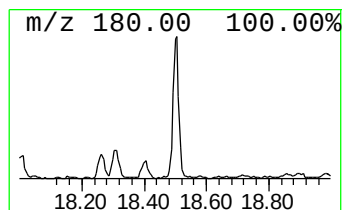
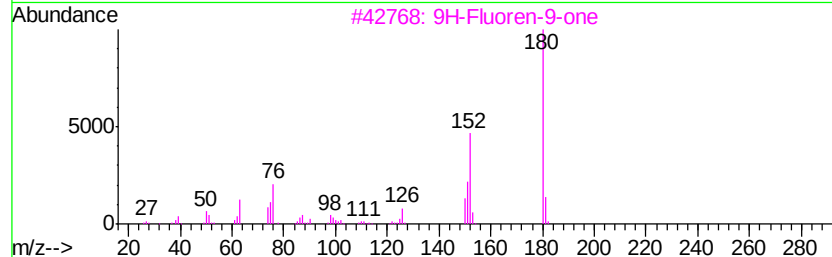
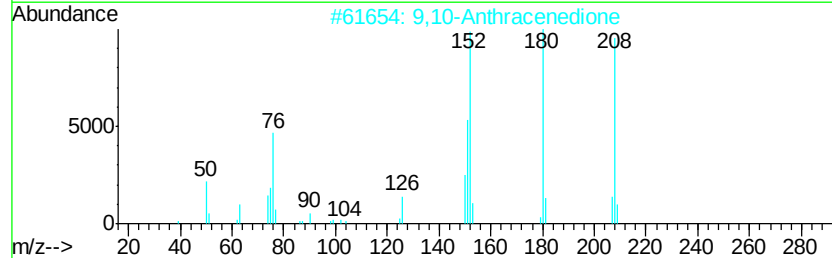
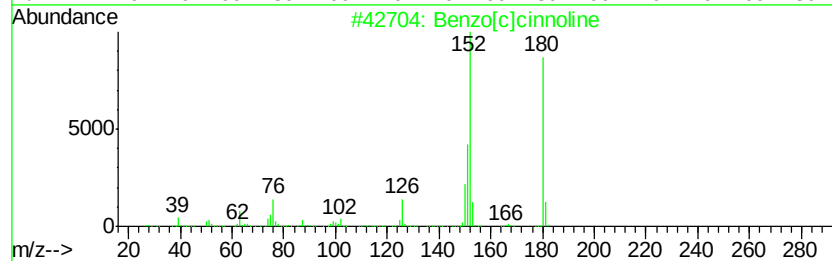
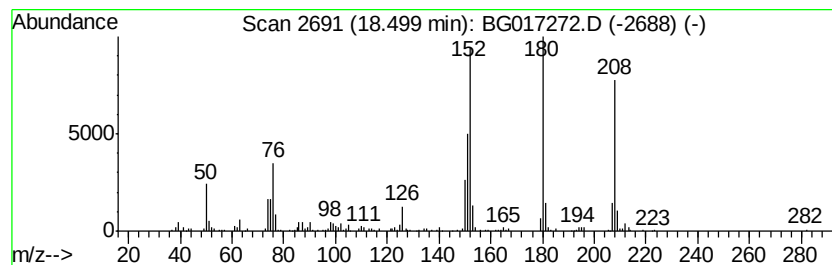
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Benzo[c]cinnoline Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.50	8.94 ng	218159	Phenanthrene-d10	17.08

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	96
2		9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
3		9H-Fluoren-9-one	180	C13H8O	000486-25-9	70
4		1H-Phenalen-1-one	180	C13H8O	000548-39-0	64
5		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
Data File : BG017272.D
Acq On : 23 May 2015 8:31
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Sample : G2359-02 2X
Misc :
ALS Vial : 29 Sample Multiplier: 1

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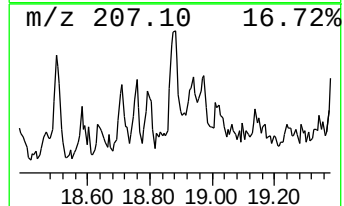
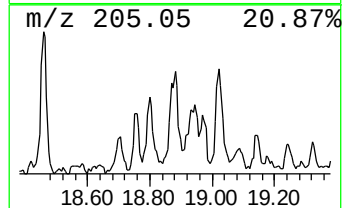
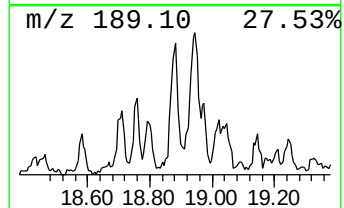
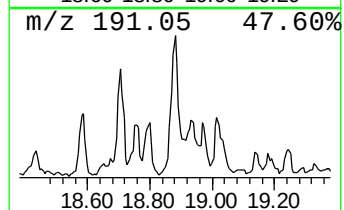
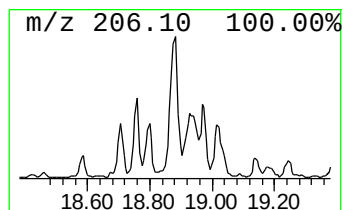
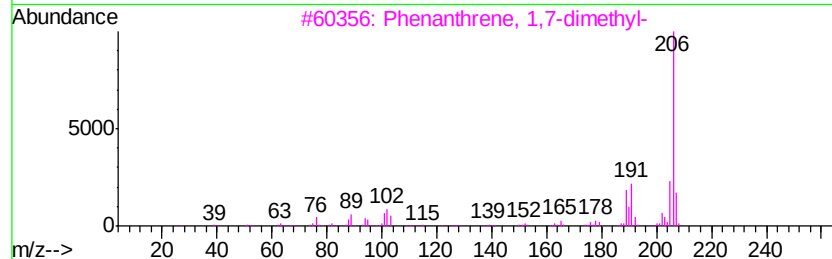
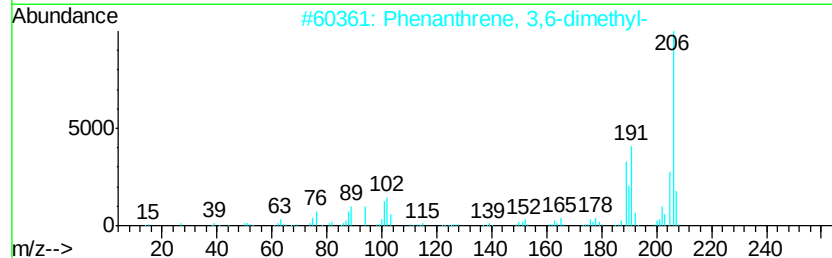
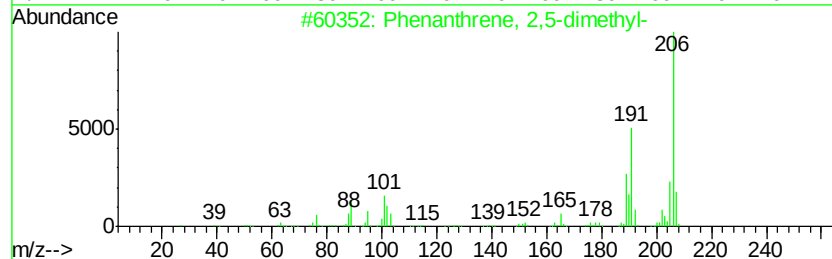
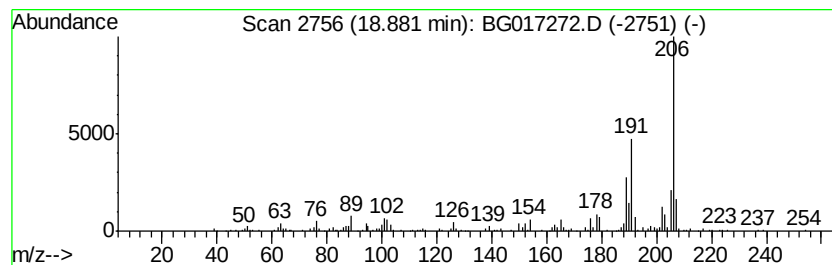
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.88	8.51 ng	207635	Phenanthrene-d10	17.08

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
3			Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
4			Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
5			Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	87



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
Data File : BG017272.D
Acq On : 23 May 2015 8:31
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Misc :
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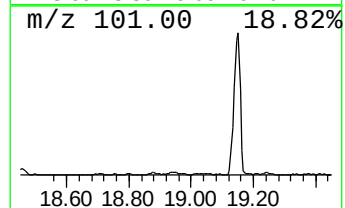
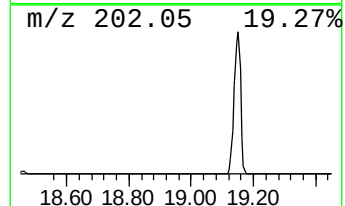
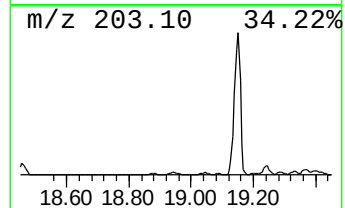
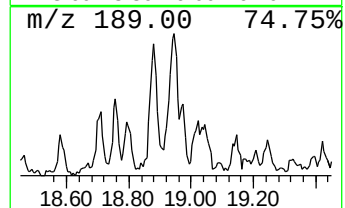
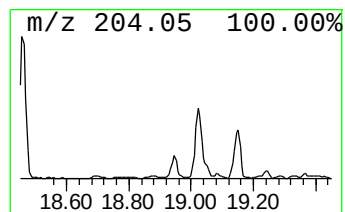
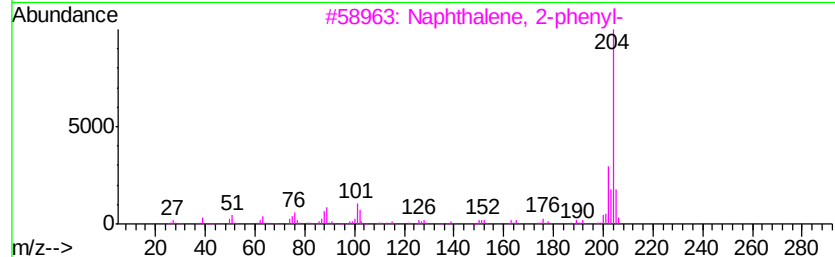
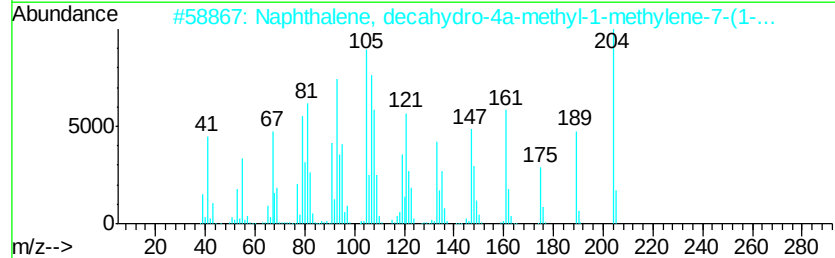
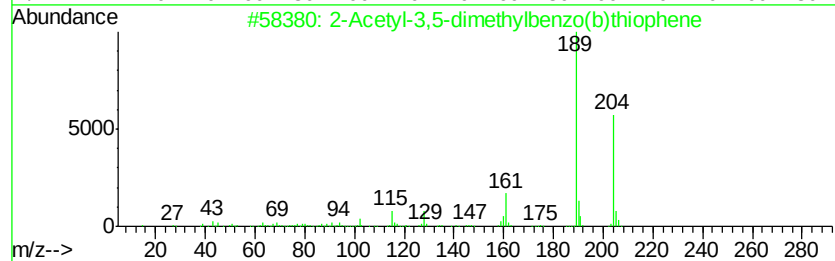
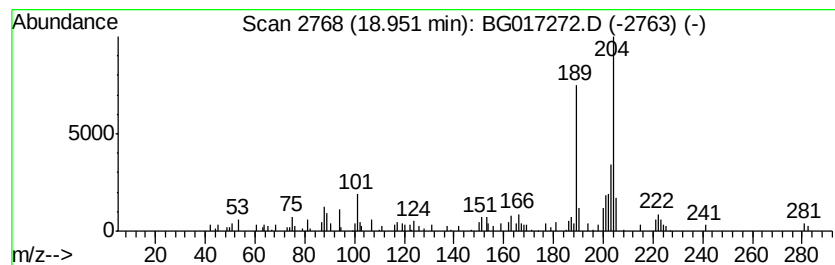
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 2-Acetyl-3,5-dimethylbenzo(...) Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.95	4.37 ng	106650	Phenanthrene-d10	17.08

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Acetyl-3,5-dimethylbenzo(b)thi...	204	C12H12OS	006179-05-1	53
2			Naphthalene, decahydro-4a-methyl...	204	C15H24	017066-67-0	46
3			Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	46
4			Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	43
5			9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	43



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
Data File : BG017272.D
Acq On : 23 May 2015 8:31
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Instrument :
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ClientSampleId :
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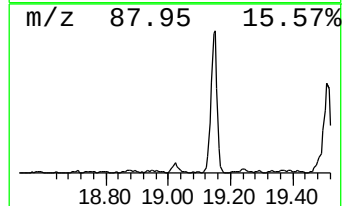
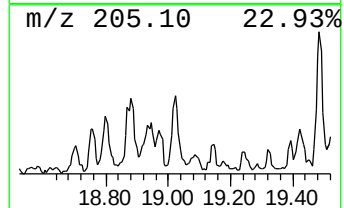
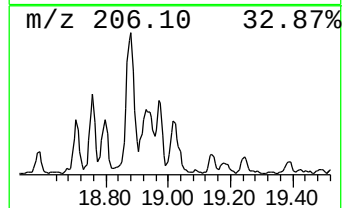
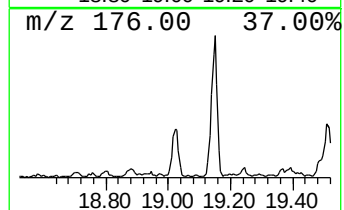
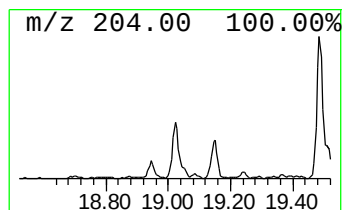
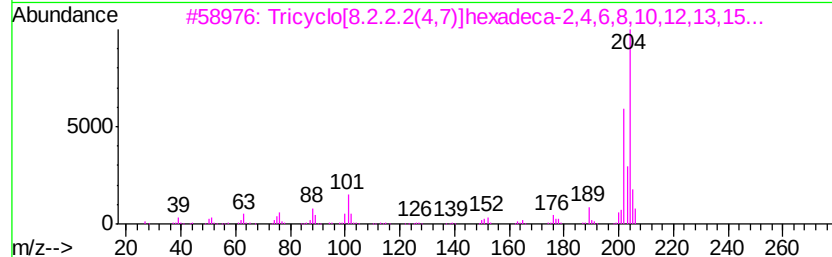
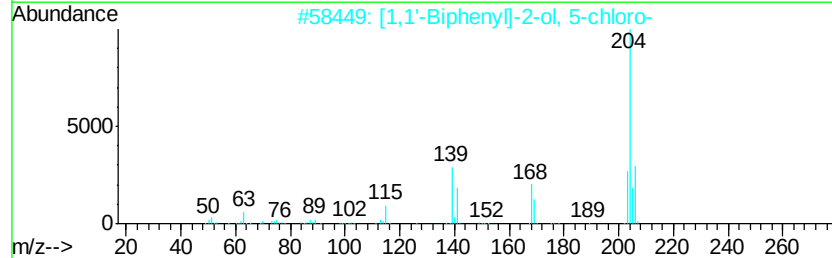
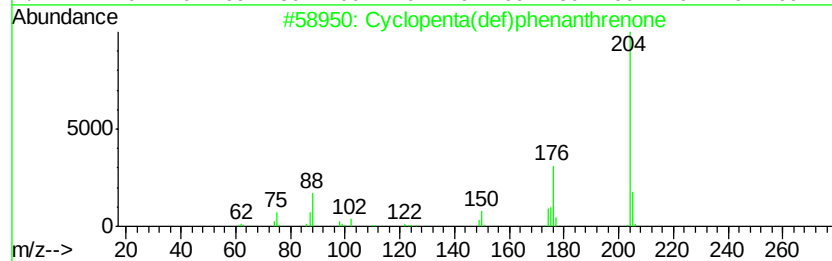
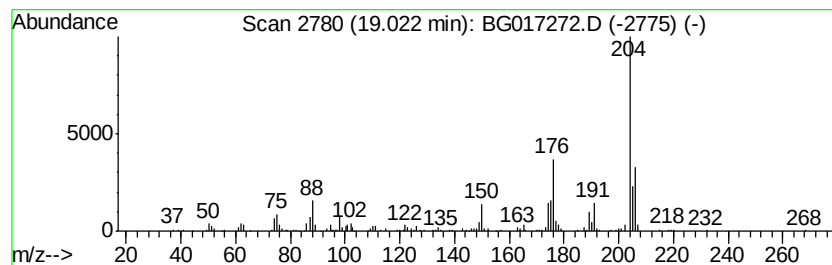
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.02	7.64 ng	186580	Phenanthrene-d10	17.08

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2		[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	49
3		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	47
4		9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	47
5		Pyrimido[5,4-b]benzofurane, 4-ch...	204	C10H5ClN2O	039876-88-5	46



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
Data File : BG017272.D
Acq On : 23 May 2015 8:31
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Sample : G2359-02 2X
Misc :
ALS Vial : 29 Sample Multiplier: 1

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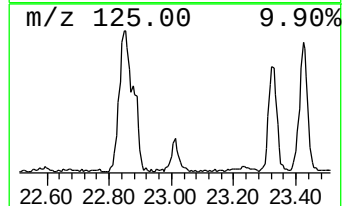
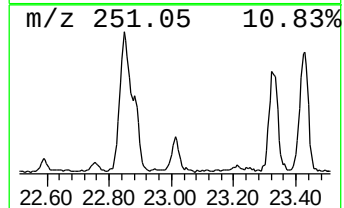
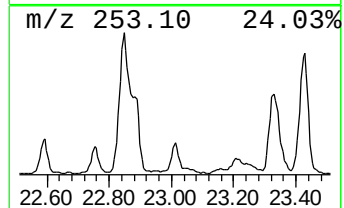
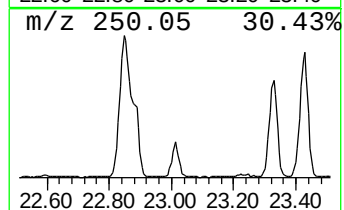
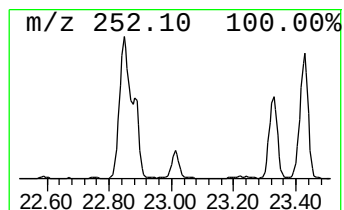
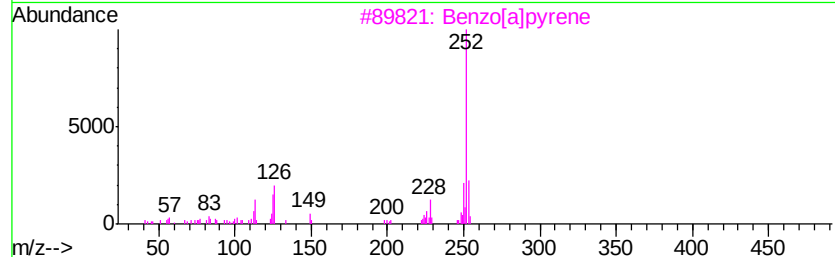
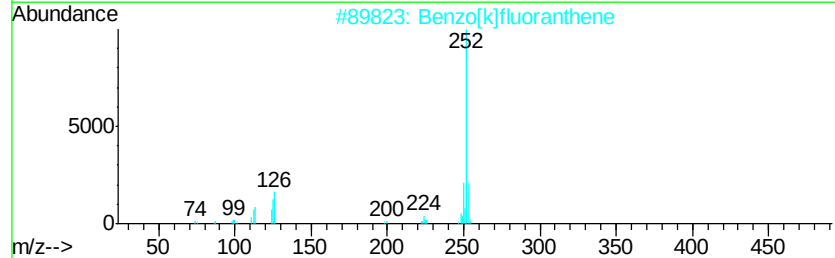
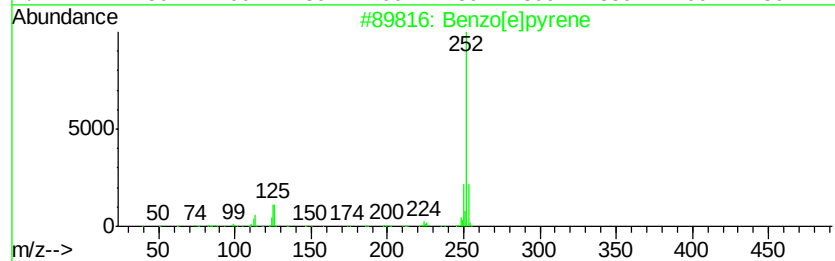
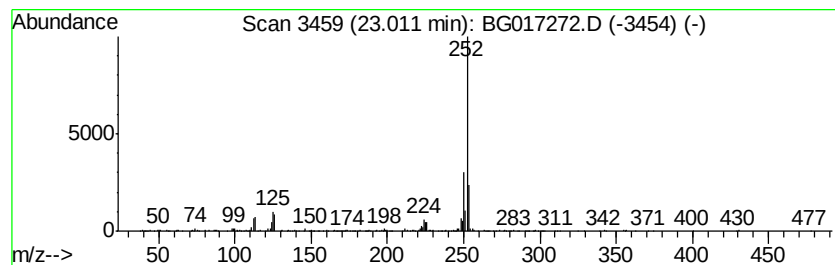
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Benzo[e]pyrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.01	10.32 ng	301837	Perylene-d12	23.52

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2		Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
3		Benzo[a]pyrene	252	C20H12	000050-32-8	90
4		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	76
5		Benzo[j]fluoranthene	252	C20H12	000205-82-3	72



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
Data File : BG017272.D
Acq On : 23 May 2015 8:31
Operator : TP/IZ
Sample : G2359-02 2X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SB-28S

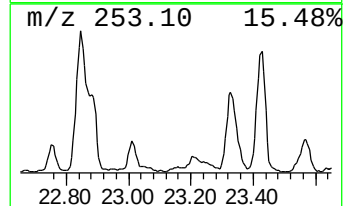
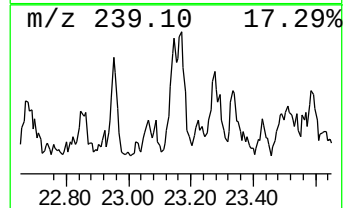
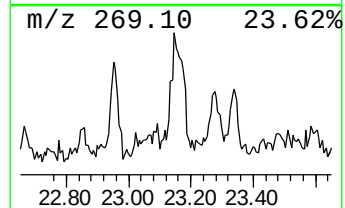
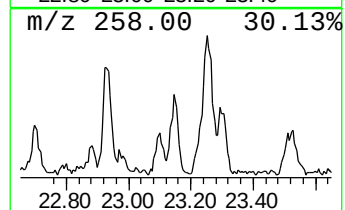
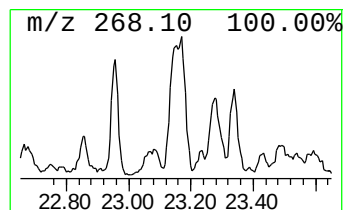
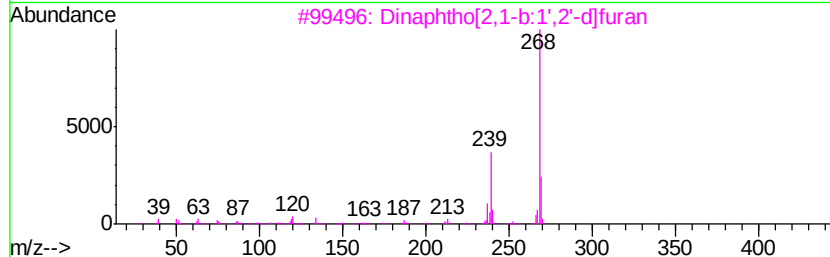
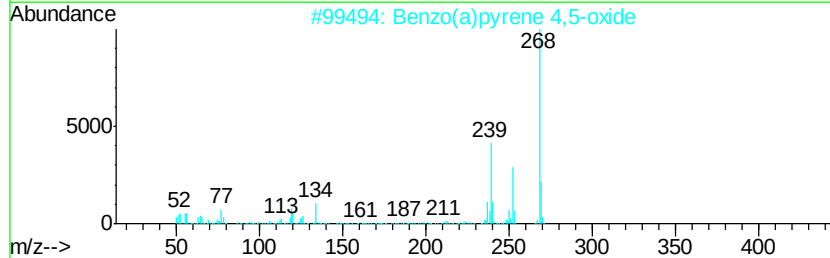
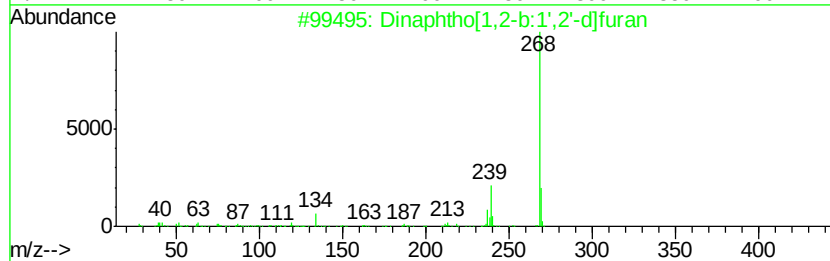
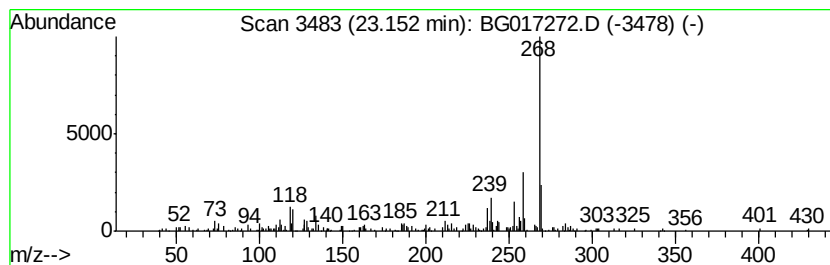
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.15	5.48 ng	160325	Perylene-d12	23.52

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	83
2		Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	70
3		Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	52
4		4H-Dibenz[a,kl]anthracene, 5,6-d...	268	C21H16	007198-87-0	50
5		Naphthalene, 1-(2-naphthalenyl)me...	268	C21H16	000611-48-3	47



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG052215\
 Data File : BG017272.D
 Acq On : 23 May 2015 8:31
 Operator : TP/IZ
 Sample : G2359-02 2X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-28S

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG051315.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
Butane, 2-methoxy...	2.85	5.4	ng	59198	1	7.68	218842	20.0
unknown7.22	7.22	42.5	ng	464654	1	7.68	218842	20.0
Dibenzofuran, 4-m...	15.67	4.7	ng	99259	3	14.33	422353	20.0
9H-Fluoren-9-one	16.74	6.7	ng	162224	4	17.08	488234	20.0
Naphtho[2,3-b]thi...	16.90	8.0	ng	196348	4	17.08	488234	20.0
Anthracene, 9-eth...	17.60	3.5	ng	85727	4	17.08	488234	20.0
Phenanthrene, 2-m...	17.95	14.2	ng	346332	4	17.08	488234	20.0
Anthracene, 1-met...	18.01	19.0	ng	463701	4	17.08	488234	20.0
Phenanthrene, 1-m...	18.09	7.7	ng	188670	4	17.08	488234	20.0
4H-Cyclopenta[def...	18.15	24.1	ng	589130	4	17.08	488234	20.0
1a,9b-Dihydro-1H-...	18.19	6.7	ng	164274	4	17.08	488234	20.0
2-Phenylnaphthalene	18.46	9.2	ng	223804	4	17.08	488234	20.0
Benzo[c]cinnoline	18.50	8.9	ng	218159	4	17.08	488234	20.0
Phenanthrene, 2,5...	18.88	8.5	ng	207635	4	17.08	488234	20.0
2-Acetyl-3,5-dime...	18.95	4.4	ng	106650	4	17.08	488234	20.0
Cyclopenta(def)ph...	19.02	7.6	ng	186580	4	17.08	488234	20.0
Benzo[e]pyrene	23.01	10.3	ng	301837	6	23.52	584777	20.0
Dinaphtho[1,2-b:1...	23.15	5.5	ng	160325	6	23.52	584777	20.0