

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
 Data File : BG018026.D
 Acq On : 21 Jul 2015 17:09
 Operator : TP/UM
 Sample : G2954-20
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TEC-B2

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-BG071715.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	2.834	20	25	30	rBV	360851	448821	4.19%	0.323%
2	4.720	339	346	355	rBV	1001592	1534604	14.32%	1.106%
3	5.178	417	424	431	rBV	2019715	2923611	27.28%	2.107%
4	6.765	686	694	705	rVB	1947129	3285580	30.65%	2.367%
5	7.111	744	753	759	rBV	2240304	3667568	34.22%	2.643%
6	7.358	788	795	803	rBV	143049	230202	2.15%	0.166%
7	7.569	823	831	838	rBV	478613	797125	7.44%	0.574%
8	7.887	876	885	892	rVB	1562166	2472131	23.07%	1.781%
9	8.727	1020	1028	1036	rBV	1258549	2106081	19.65%	1.518%
10	10.349	1296	1304	1309	rBV	736166	1278445	11.93%	0.921%
11	10.401	1309	1313	1320	rVB	116311	190639	1.78%	0.137%
12	12.023	1583	1589	1595	rVB	95647	158289	1.48%	0.114%
13	12.846	1720	1729	1736	rBV	2734701	4133232	38.56%	2.978%
14	13.057	1757	1765	1772	rBV2	104205	158199	1.48%	0.114%
15	13.545	1843	1848	1853	rVB	134895	215631	2.01%	0.155%
16	13.692	1868	1873	1877	rBV	474679	684479	6.39%	0.493%
17	13.950	1908	1917	1924	rBV	161376	287418	2.68%	0.207%
18	14.232	1955	1965	1971	rBV2	1117083	1779118	16.60%	1.282%
19	14.291	1971	1975	1984	rVB	281754	476244	4.44%	0.343%
20	14.632	2022	2033	2039	rVV2	303905	509276	4.75%	0.367%
21	14.855	2065	2071	2076	rVV2	107416	194325	1.81%	0.140%
22	15.025	2093	2100	2103	rBV2	109641	207629	1.94%	0.150%
23	15.284	2138	2144	2148	rBV3	444209	679657	6.34%	0.490%
24	15.507	2176	2182	2190	rBV5	88359	214234	2.00%	0.154%
25	15.578	2190	2194	2204	rVB	209345	362985	3.39%	0.262%
26	15.730	2212	2220	2228	rVV	2592373	3885623	36.25%	2.800%
27	15.819	2228	2235	2242	rVB4	77949	176851	1.65%	0.127%
28	15.965	2255	2260	2263	rBV2	229888	365501	3.41%	0.263%
29	16.294	2305	2316	2320	rBV3	162763	409322	3.82%	0.295%
30	16.524	2346	2355	2358	rBV3	165811	313530	2.93%	0.226%
31	16.641	2371	2375	2382	rVB4	117395	208880	1.95%	0.151%
32	16.718	2384	2388	2393	rBV2	155580	309100	2.88%	0.223%
33	16.765	2393	2396	2399	rVV2	154020	181873	1.70%	0.131%
34	16.806	2399	2403	2407	rVV	257878	349403	3.26%	0.252%

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35	16.988	2428	2434	2437	rBV	1168836	1749875	16.33%	1.261%
36	17.035	2437	2442	2448	rVV	4155507	6227225	58.10%	4.487%
37	17.123	2452	2457	2462	rVB	1294782	1854185	17.30%	1.336%
38	17.176	2462	2466	2471	rBV3	156580	253928	2.37%	0.183%
39	17.393	2499	2503	2507	rBV	182415	240434	2.24%	0.173%
40	17.505	2518	2522	2527	rVB2	209086	269076	2.51%	0.194%
41	17.863	2578	2583	2587	rBV	600008	843309	7.87%	0.608%
42	17.910	2587	2591	2598	rVB	1056364	1546060	14.42%	1.114%
43	17.993	2599	2605	2610	rBV	405384	636962	5.94%	0.459%
44	18.057	2610	2616	2621	rVV2	1125081	2099640	19.59%	1.513%
45	18.098	2621	2623	2629	rVB	483996	538500	5.02%	0.388%
46	18.198	2637	2640	2647	rVB4	130730	218003	2.03%	0.157%
47	18.374	2665	2670	2674	rBV	534075	731046	6.82%	0.527%
48	18.416	2674	2677	2682	rVB	208807	262171	2.45%	0.189%
49	18.621	2709	2712	2716	rVV2	175174	226273	2.11%	0.163%
50	18.674	2717	2721	2724	rVV	202850	260365	2.43%	0.188%
51	18.709	2724	2727	2731	rVB	189555	253185	2.36%	0.182%
52	18.797	2736	2742	2746	rBV	468341	832489	7.77%	0.600%
53	18.844	2746	2750	2755	rVV3	305832	722908	6.74%	0.521%
54	18.891	2755	2758	2761	rVV	183125	238012	2.22%	0.172%
55	18.938	2761	2766	2774	rVB2	294588	596639	5.57%	0.430%
56	19.068	2781	2788	2795	rBV	5773672	9227480	86.09%	6.649%
57	19.126	2795	2798	2801	rVV	161180	244353	2.28%	0.176%
58	19.162	2801	2804	2808	rVV2	227464	328559	3.07%	0.237%
59	19.209	2808	2812	2816	rVV	201025	325433	3.04%	0.234%
60	19.262	2816	2821	2824	rVV3	119945	266770	2.49%	0.192%
61	19.303	2825	2828	2831	rVV	303067	459543	4.29%	0.331%
62	19.338	2831	2834	2840	rVV3	292226	459658	4.29%	0.331%
63	19.432	2840	2850	2857	rVV3	5179106	10717983	100.00%	7.723%
64	19.497	2857	2861	2868	rVB3	420246	785274	7.33%	0.566%
65	19.602	2875	2879	2881	rBV	345993	474055	4.42%	0.342%
66	19.638	2881	2885	2895	rVB	3880518	5588286	52.14%	4.027%
67	19.749	2899	2904	2911	rBV4	452079	1148303	10.71%	0.827%
68	19.884	2923	2927	2930	rBV4	341253	580512	5.42%	0.418%
69	19.926	2930	2934	2938	rVB	1012859	1337980	12.48%	0.964%
70	19.961	2938	2940	2944	rVB3	134817	154094	1.44%	0.111%
71	20.025	2947	2951	2955	rBV	879093	1089305	10.16%	0.785%

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72	20.084	2955	2961	2965	rVV2	697276	1171880	10.93%	0.844%
73	20.125	2965	2968	2971	rVB	195231	231153	2.16%	0.167%
74	20.166	2972	2975	2980	rVB2	154617	209091	1.95%	0.151%
75	20.219	2981	2984	2988	rBV	327619	425624	3.97%	0.307%
76	20.266	2988	2992	2997	rBV2	397317	558346	5.21%	0.402%
77	20.636	3051	3055	3057	rBV3	214245	300624	2.80%	0.217%
78	20.678	3058	3062	3068	rVB	412873	708449	6.61%	0.510%
79	20.842	3086	3090	3093	rVV	364455	470018	4.39%	0.339%
80	20.877	3093	3096	3099	rVV	557085	620393	5.79%	0.447%
81	20.919	3099	3103	3108	rVV3	803763	1253739	11.70%	0.903%
82	20.971	3109	3112	3120	rVB	367299	562580	5.25%	0.405%
83	21.189	3139	3149	3154	rBV3	4109478	8659779	80.80%	6.240%
84	21.236	3154	3157	3166	rVB	3336011	4252563	39.68%	3.064%
85	21.347	3172	3176	3181	rBV	937772	1275698	11.90%	0.919%
86	21.506	3198	3203	3208	rVB2	411370	712712	6.65%	0.514%
87	21.682	3230	3233	3236	rBV2	206151	245899	2.29%	0.177%
88	21.735	3236	3242	3247	rVV	883178	1468080	13.70%	1.058%
89	21.788	3247	3251	3257	rVB	633772	786849	7.34%	0.567%
90	21.935	3272	3276	3278	rBV	379189	501525	4.68%	0.361%
91	21.964	3279	3281	3287	rVB3	500642	616998	5.76%	0.445%
92	22.029	3288	3292	3302	rVB5	337966	685885	6.40%	0.494%
93	22.763	3409	3417	3421	rBV	2547104	6537565	61.00%	4.711%
94	22.922	3439	3444	3455	rVB	599929	1053230	9.83%	0.759%
95	23.233	3490	3497	3506	rVB	1671816	3581003	33.41%	2.580%
96	23.327	3506	3513	3521	rVV	2522969	5006641	46.71%	3.608%
97	23.421	3524	3529	3533	rVV	1011732	2044243	19.07%	1.473%
98	23.468	3533	3537	3546	rVB2	844724	1797360	16.77%	1.295%
99	25.678	3905	3913	3926	rVB	841127	2378312	22.19%	1.714%
100	26.377	4024	4032	4043	rVB	525538	1679006	15.67%	1.210%

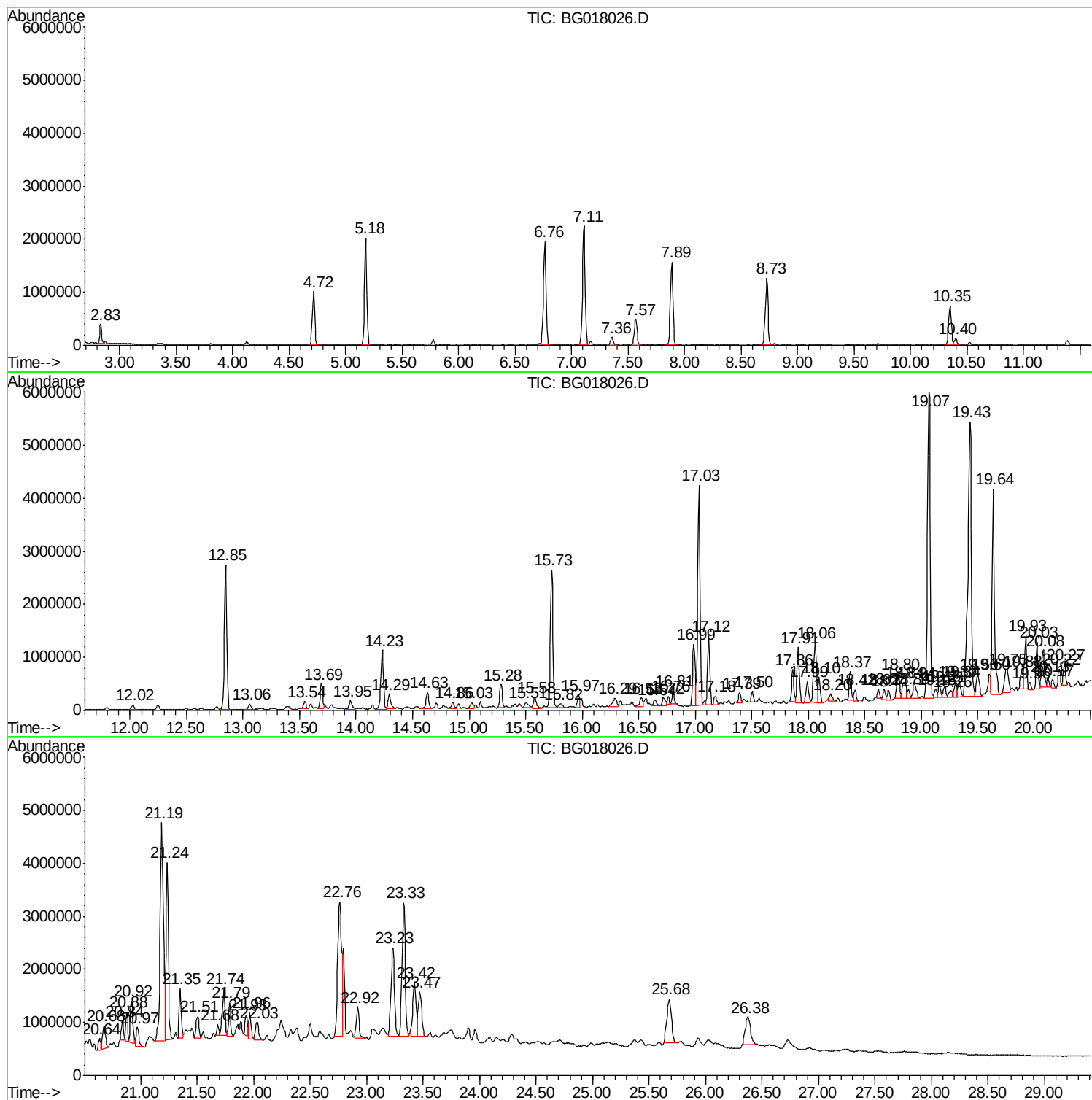
Sum of corrected areas: 138778724

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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.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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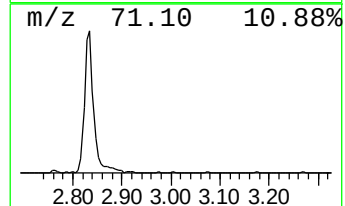
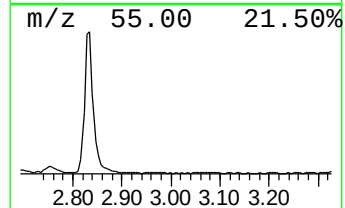
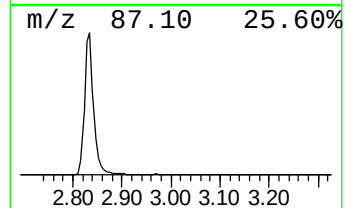
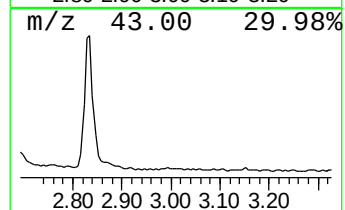
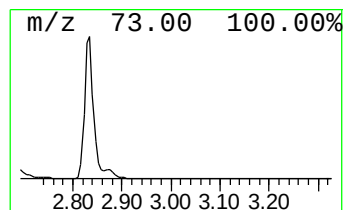
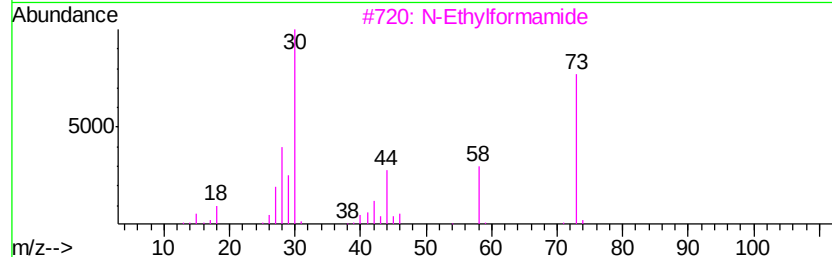
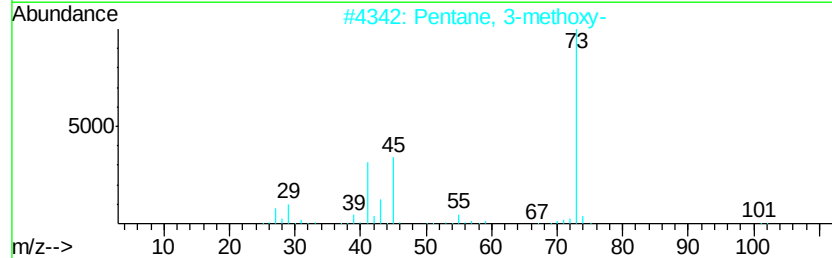
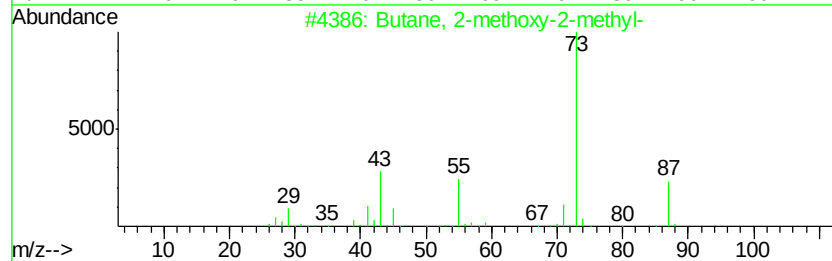
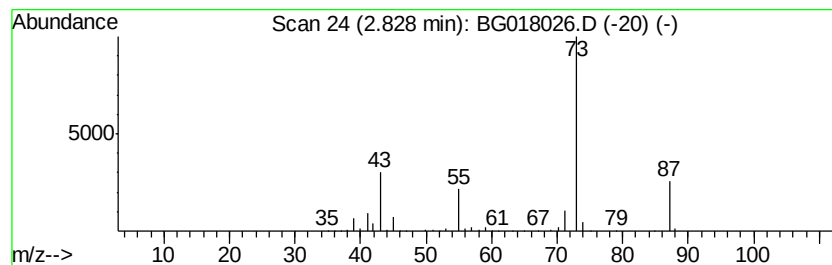
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.83	11.26 ng	448821	1,4-Dichlorobenzene-d4	7.57

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	86
2			Pentane, 3-methoxy-	102	C6H14O	036839-67-5	25
3			N-Ethylformamide	73	C3H7NO	000627-45-2	9
4			Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	9
5			1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	9



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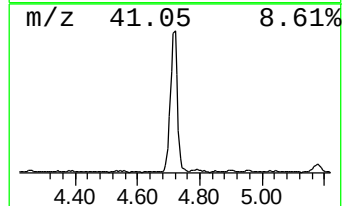
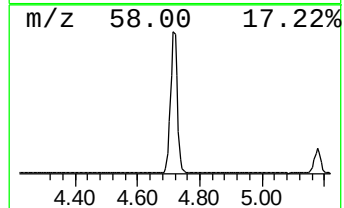
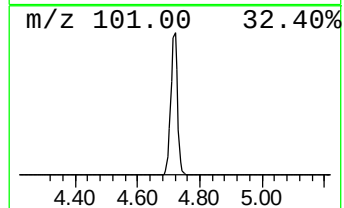
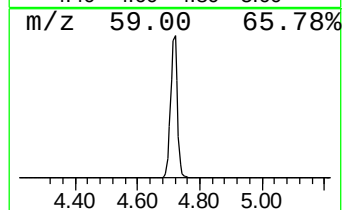
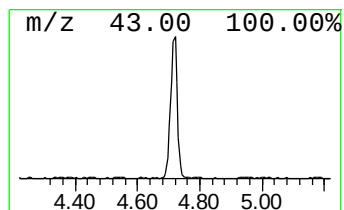
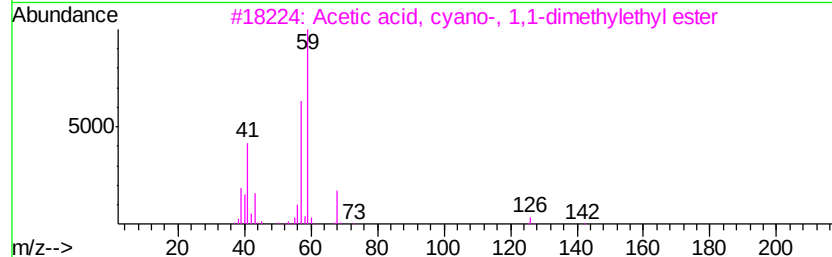
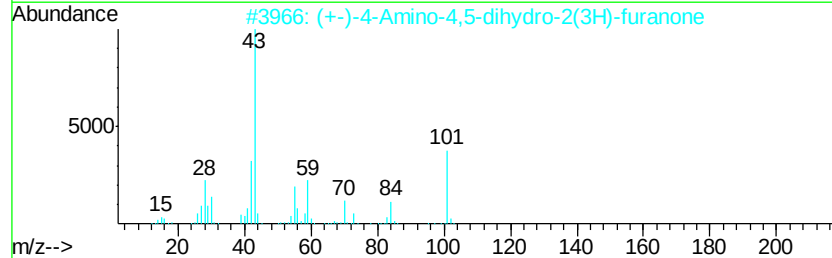
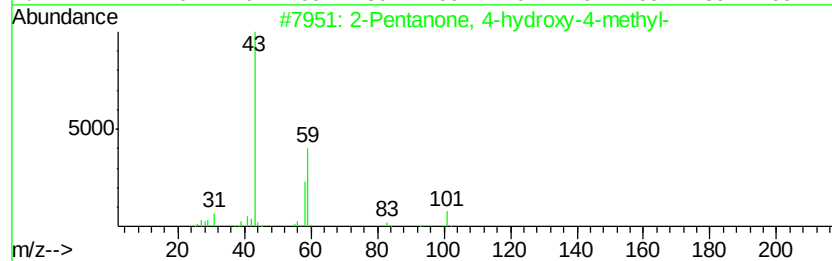
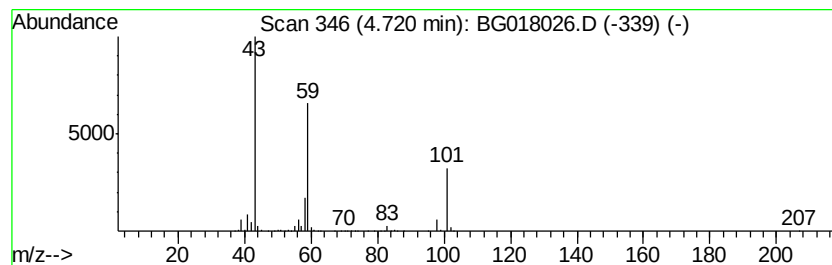
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.72	38.50 ng	1534600	1,4-Dichlorobenzene-d4	7.57

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2		(+)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	43
3		Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
4		Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5		Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9



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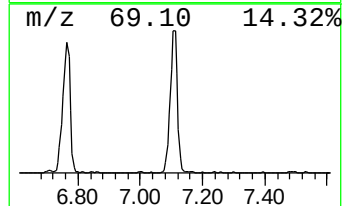
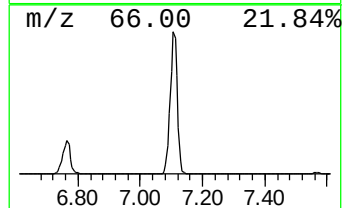
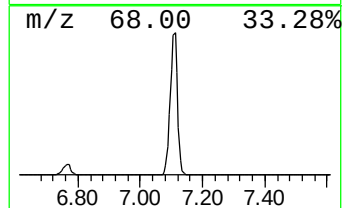
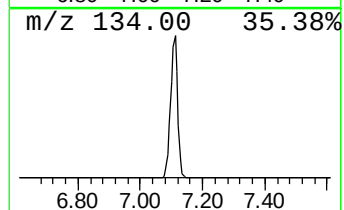
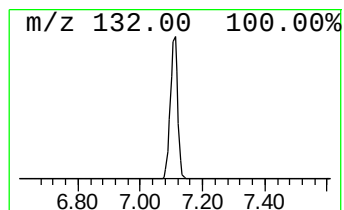
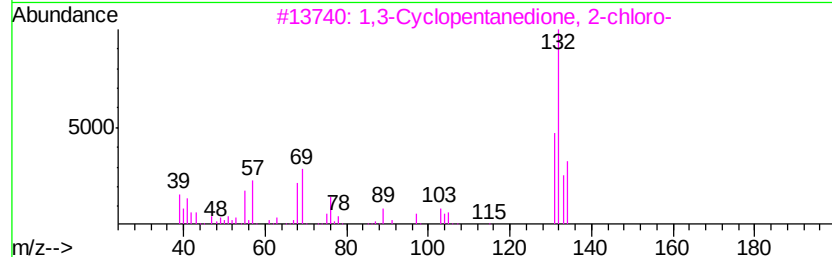
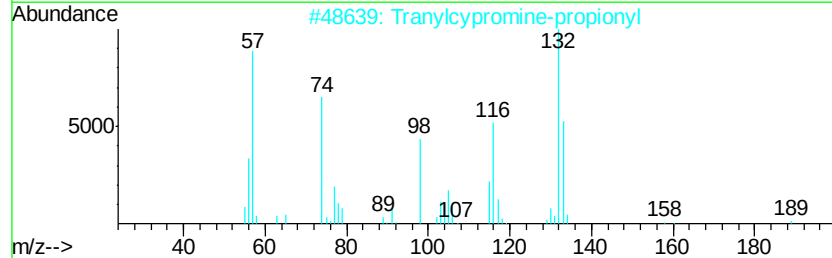
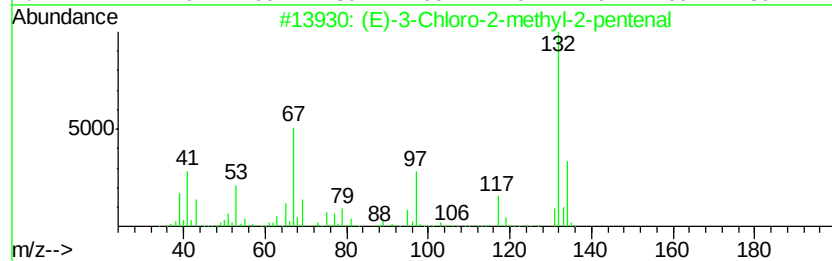
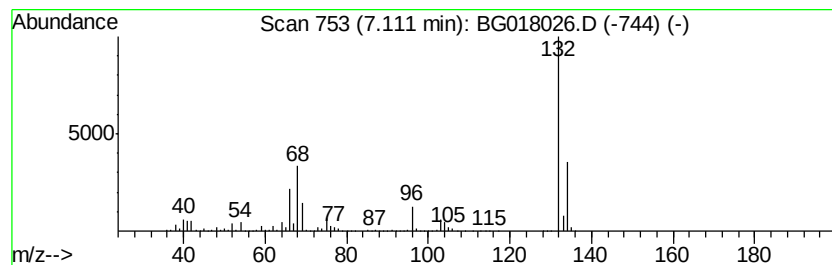
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 unknown7.11 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.11	92.02 ng	3667570	1,4-Dichlorobenzene-d4	7.57

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	35
2		Tranlylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
3		1,3-Cyclopentanedione, 2-chloro-	132	C5H5ClO2	014203-19-1	9
4		Xenon	132	Xe	007440-63-3	9
5		3H-1,2-Dithiol-3-one, 5-methyl-	132	C4H4OS2	003620-08-4	9



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018026.D
Acq On : 21 Jul 2015 17:09
Operator : TP/UM
Sample : G2954-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

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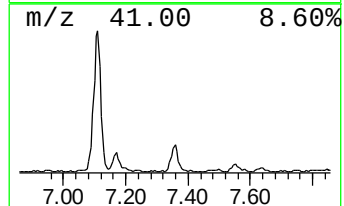
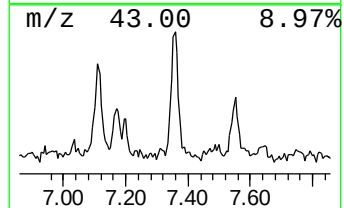
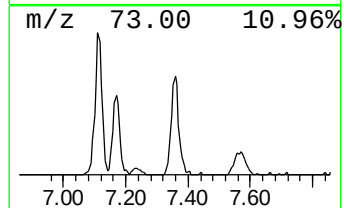
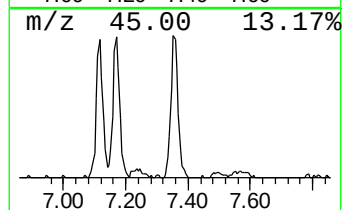
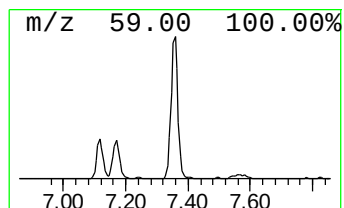
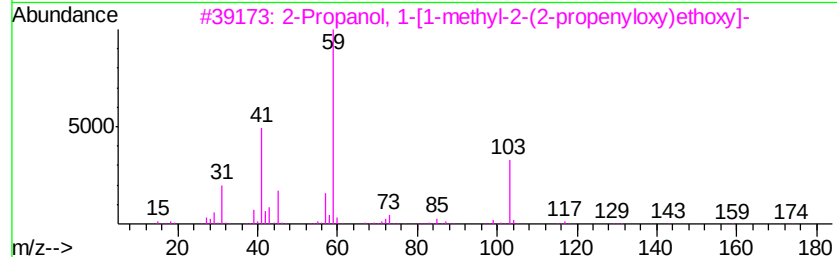
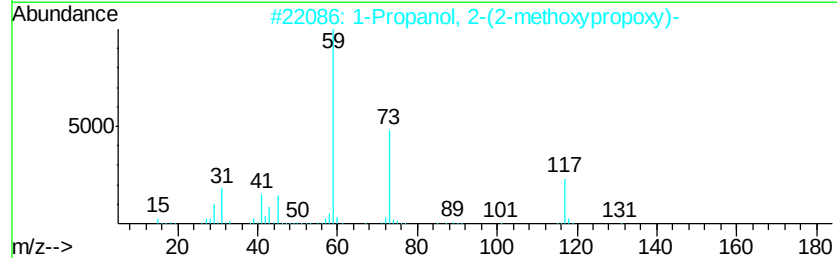
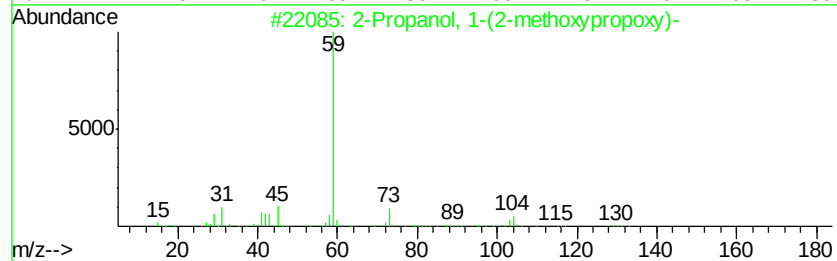
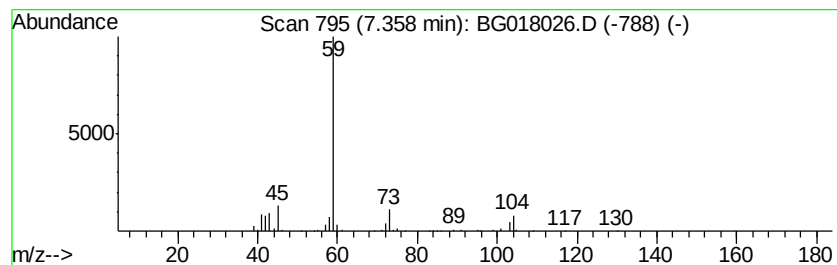
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 2-Propanol, 1-(2-methoxypro... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.36	5.78 ng	230202	1,4-Dichlorobenzene-d4	7.57

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2-Propanol, 1-(2-methoxypropoxy)-	148	C7H16O3	013429-07-7	83
2		1-Propanol, 2-(2-methoxypropoxy)-	148	C7H16O3	013588-28-8	64
3		2-Propanol, 1-[1-methyl-2-(2-pro...	174	C9H18O3	055956-25-7	56
4		1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	50
5		3-Heptanol, 4-methyl-	130	C8H18O	014979-39-6	50



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018026.D
Acq On : 21 Jul 2015 17:09
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Sample : G2954-20
Misc :
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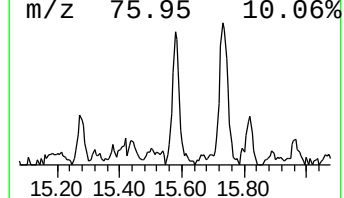
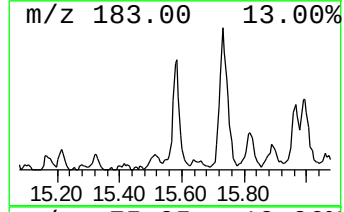
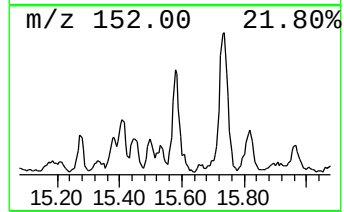
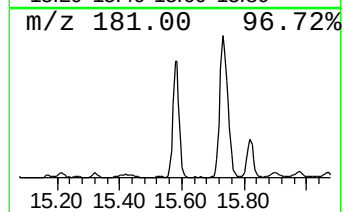
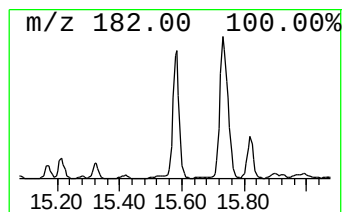
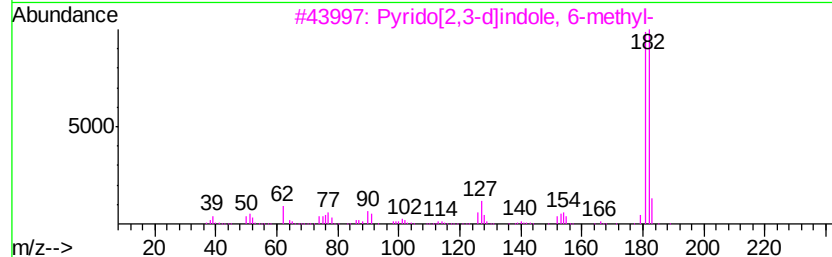
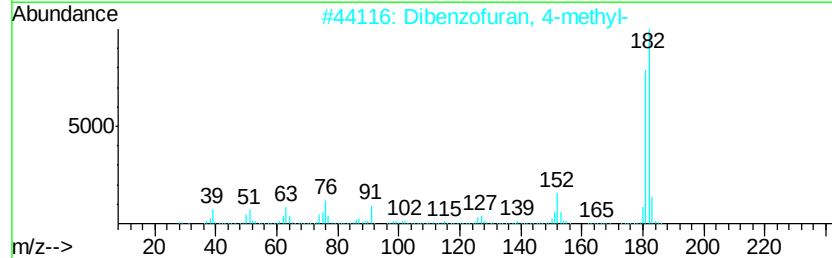
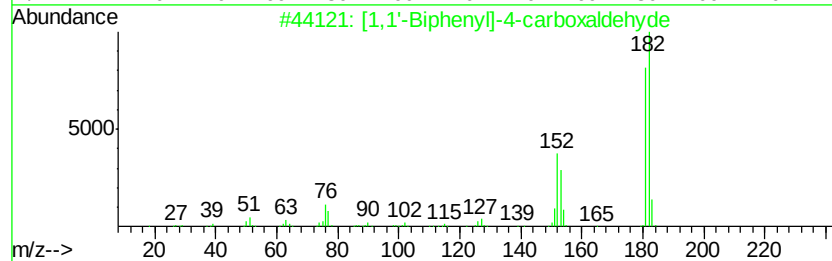
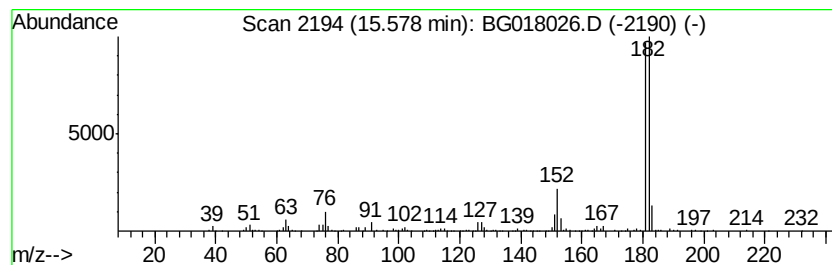
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.58	4.08 ng	362985	Acenaphthene-d10	14.23	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	91
2	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	87
3	Pyrido[2,3-d]indole, 6-methyl-	182	C12H10N2	108349-67-3	80
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
5	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	72



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018026.D
Acq On : 21 Jul 2015 17:09
Operator : TP/UM
Sample : G2954-20
Misc :
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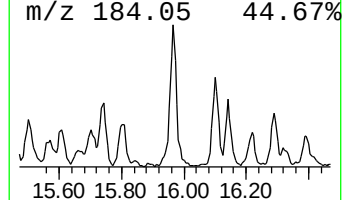
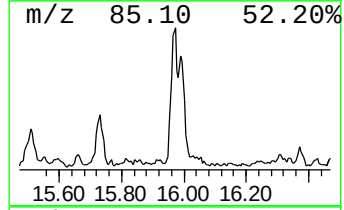
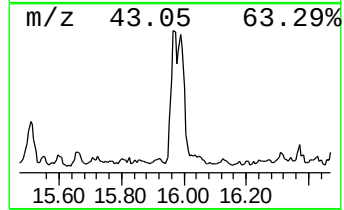
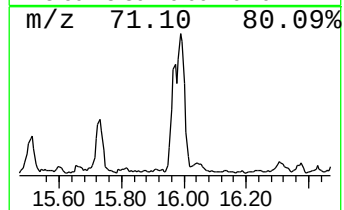
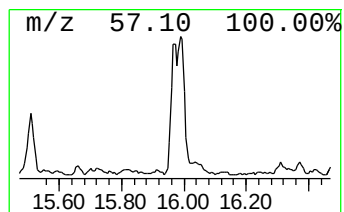
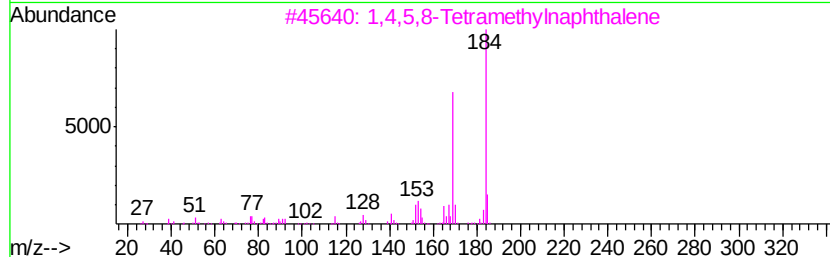
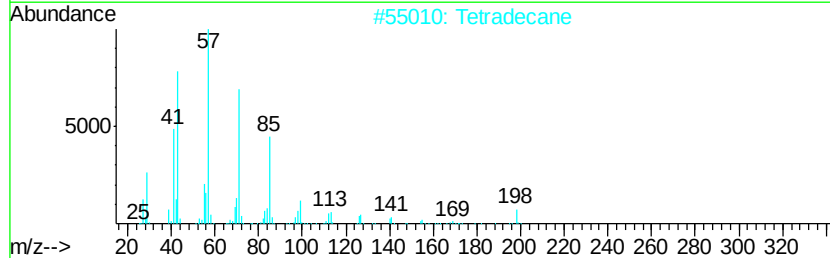
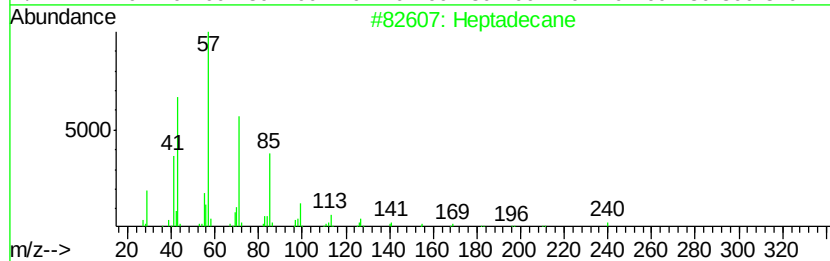
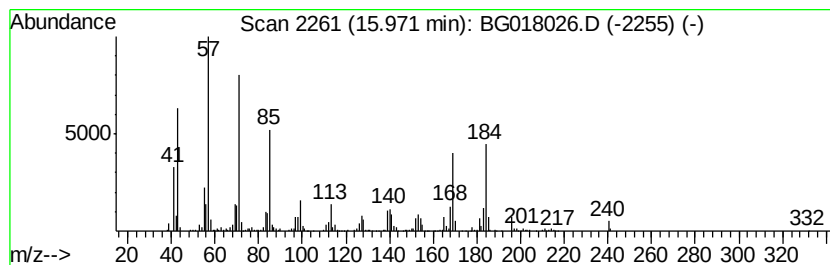
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Heptadecane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.97	4.18 ng	365501	Phenanthrene-d10	16.99
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Heptadecane	240 C17H36	000629-78-7	95
2	Tetradecane	198 C14H30	000629-59-4	84
3	1,4,5,8-Tetramethylnaphthalene	184 C14H16	002717-39-7	62
4	Azulene, 7-ethyl-1,4-dimethyl-	184 C14H16	000529-05-5	56
5	Tridecane, 3-methyl-	198 C14H30	006418-41-3	53



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018026.D
Acq On : 21 Jul 2015 17:09
Operator : TP/UM
Sample : G2954-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

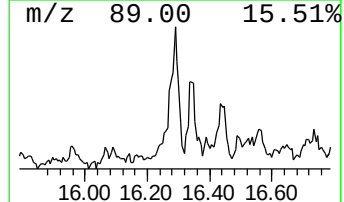
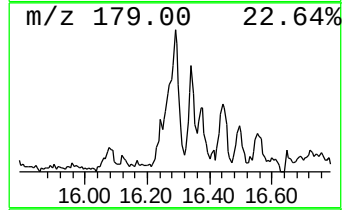
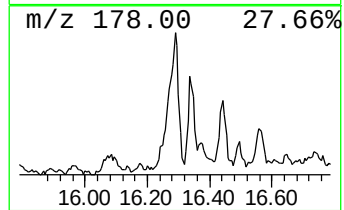
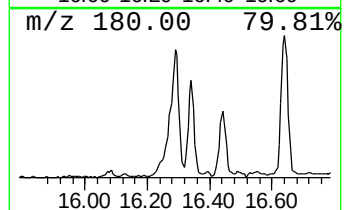
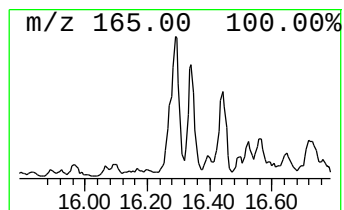
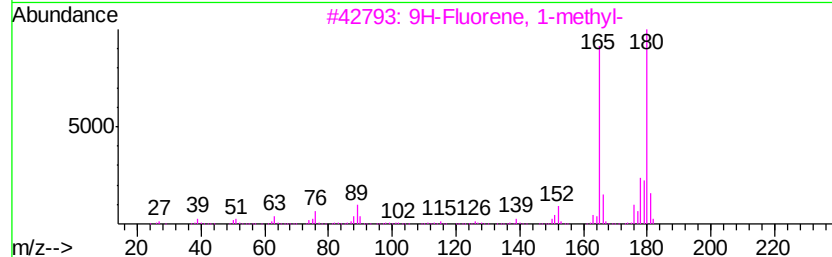
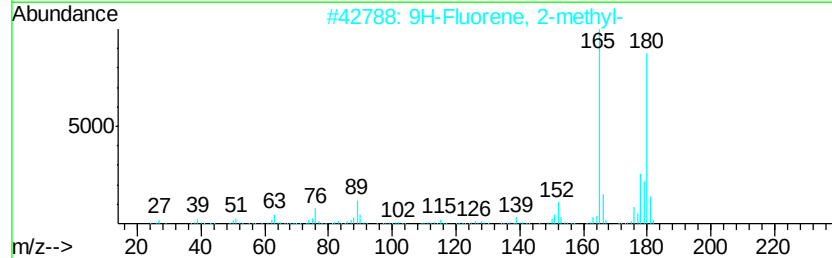
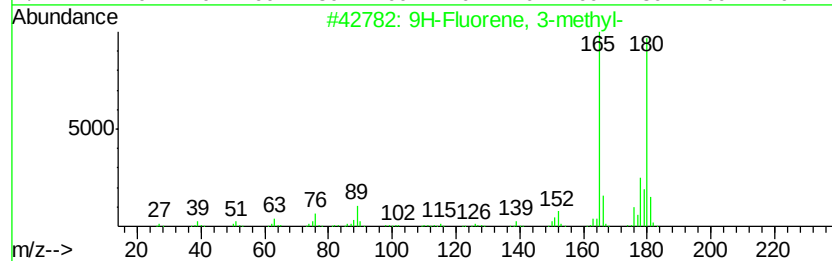
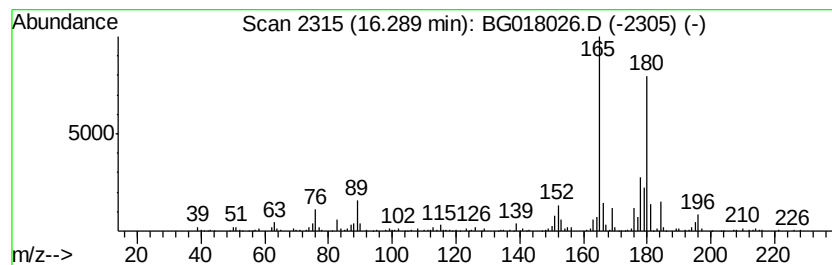
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 9H-Fluorene, 3-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD		R.T.
16.29	4.68 ng	409322	Phenanthrene-d10		16.99
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	91
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	91
3	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	83
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	83
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	83



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
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Sample : G2954-20
Misc :
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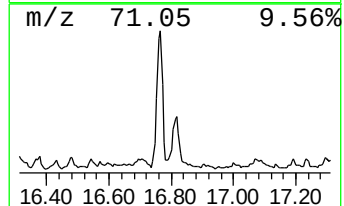
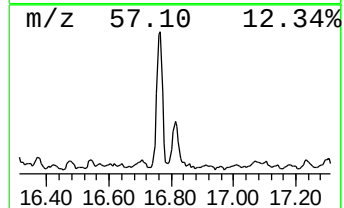
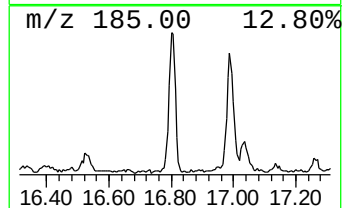
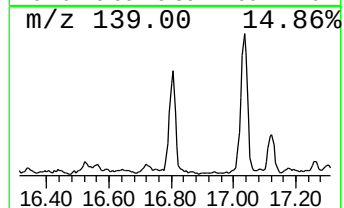
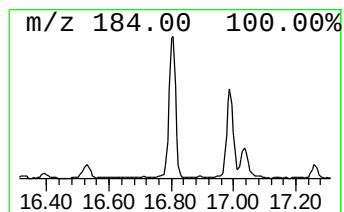
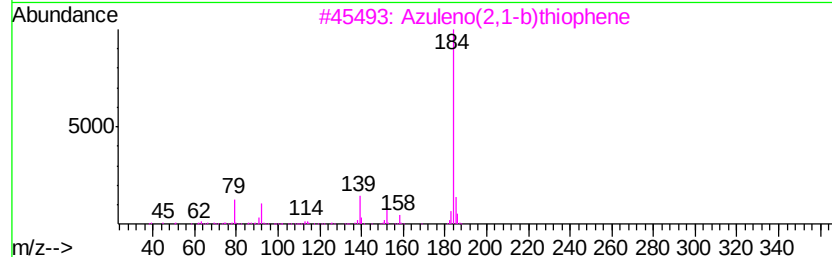
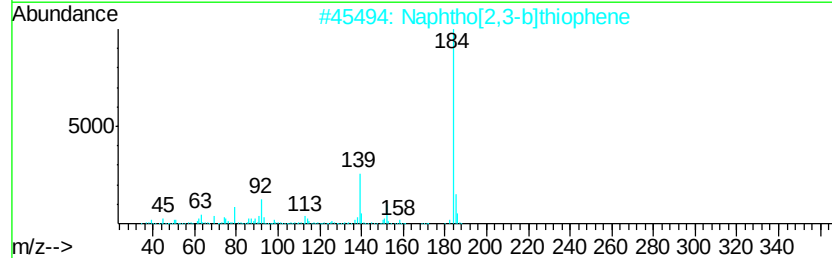
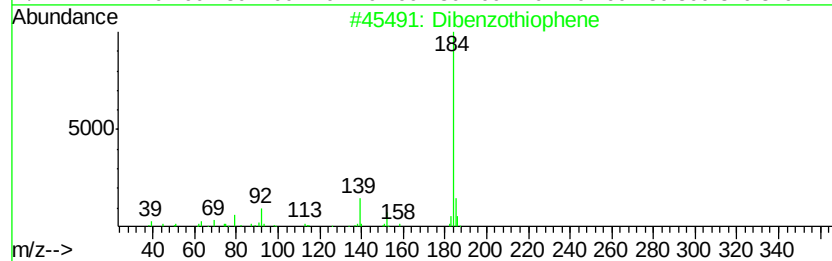
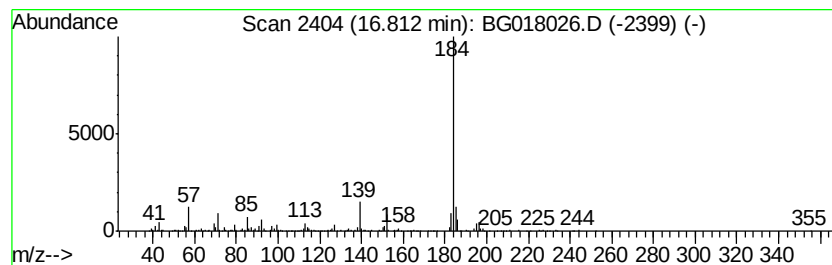
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Dibenzothiophene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD		R.T.
16.81	3.99 ng	349403	Phenanthrene-d10		16.99
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
4	Thianthrene, 5-oxide	232	C12H8OS2	002362-50-7	78
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
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Sample : G2954-20
Misc :
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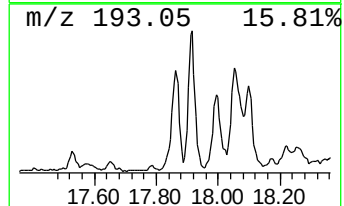
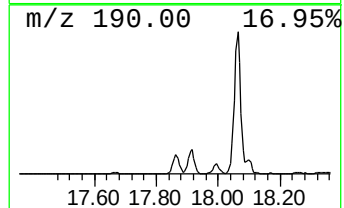
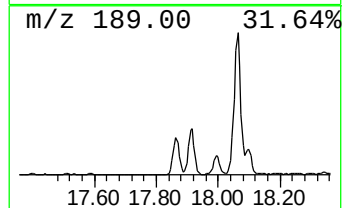
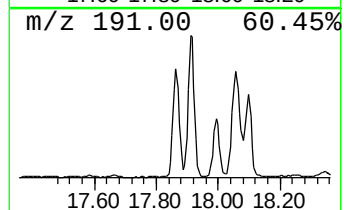
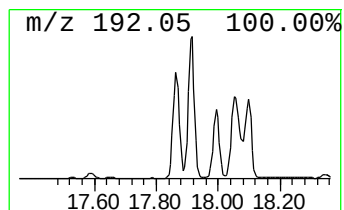
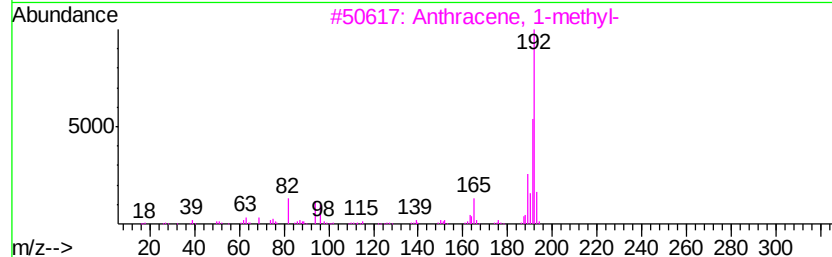
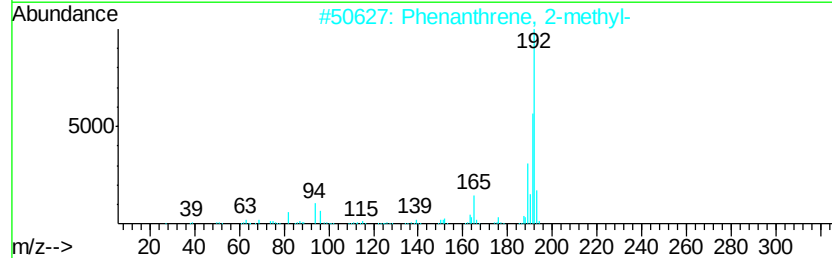
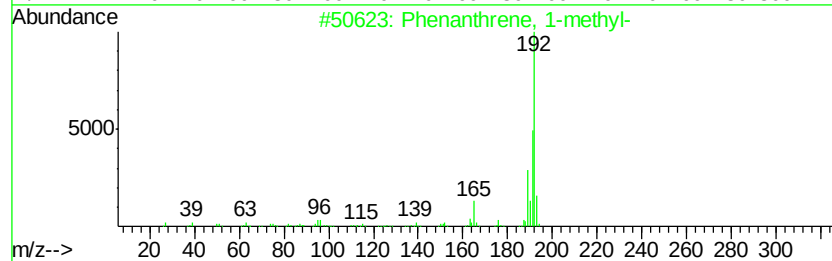
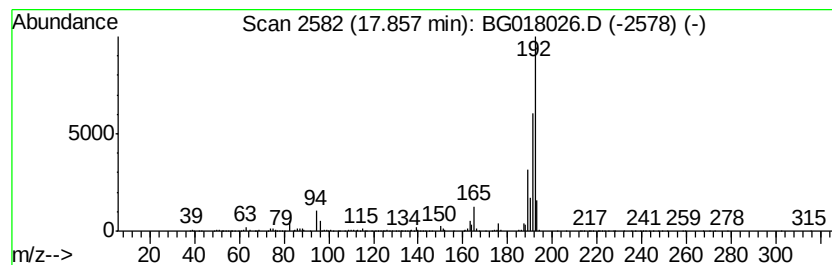
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.	
17.86	9.64 ng	843309	Phenanthrene-d10	16.99	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	87



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018026.D
Acq On : 21 Jul 2015 17:09
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Sample : G2954-20
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ALS Vial : 8 Sample Multiplier: 1

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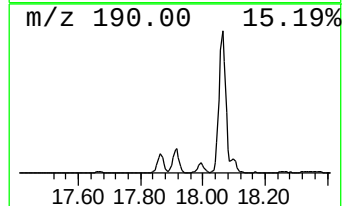
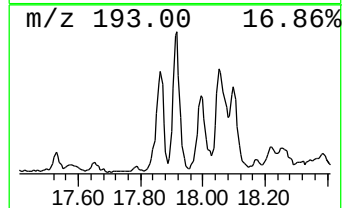
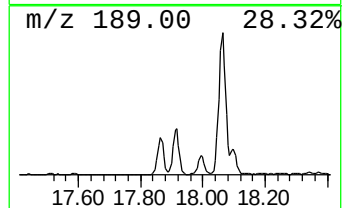
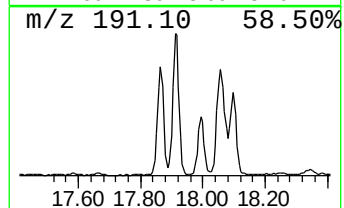
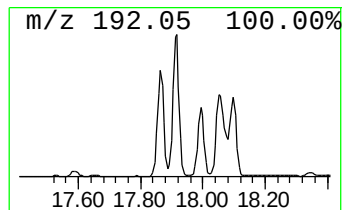
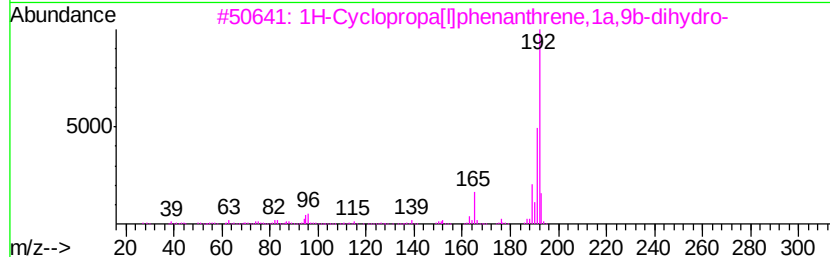
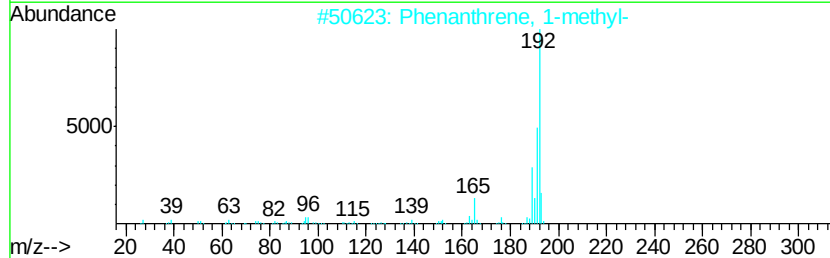
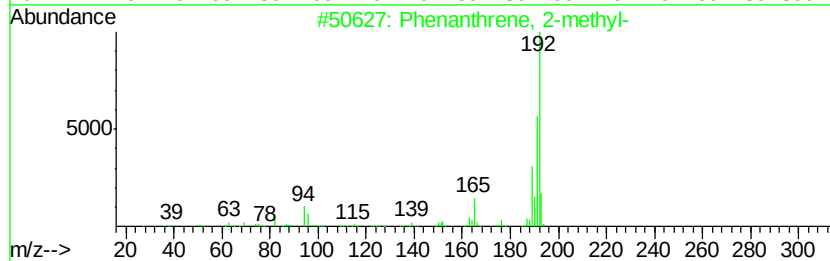
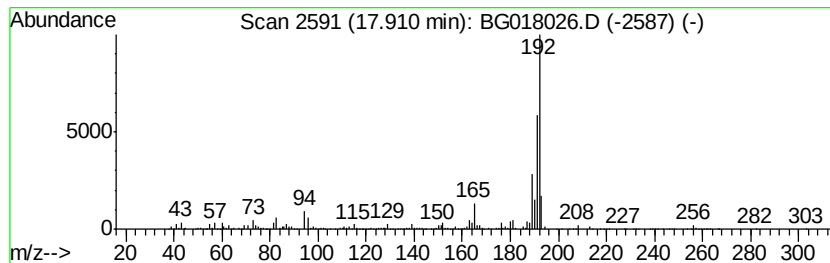
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.91	17.67 ng	1546060	Phenanthrene-d10	16.99

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3		1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	96
4		Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5		Anthracene, 9-methyl-	192	C15H12	000779-02-2	94



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018026.D
Acq On : 21 Jul 2015 17:09
Operator : TP/UM
Sample : G2954-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
TEC-B2

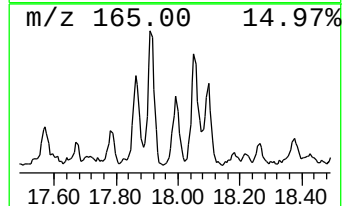
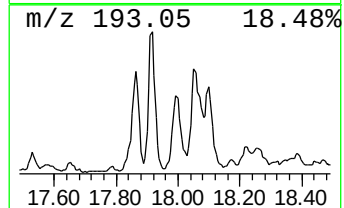
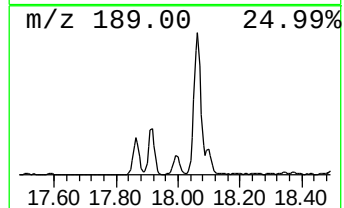
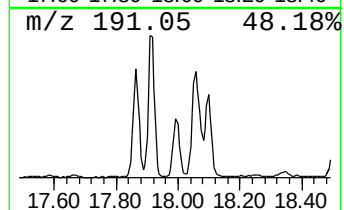
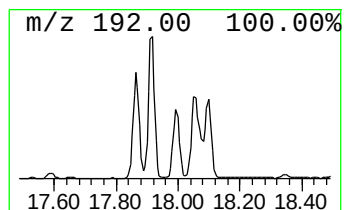
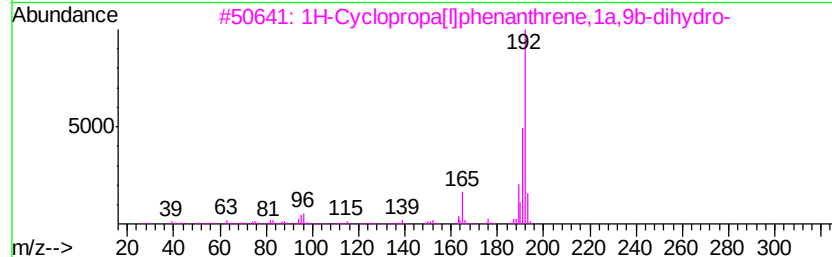
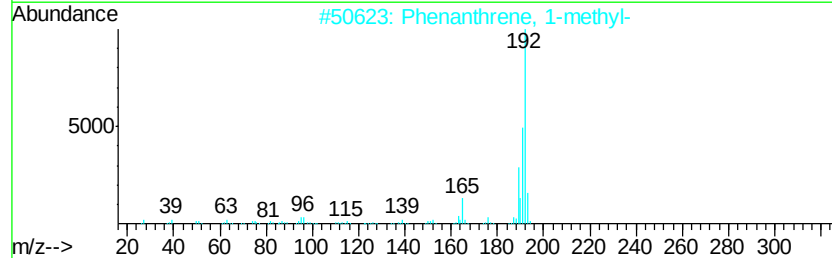
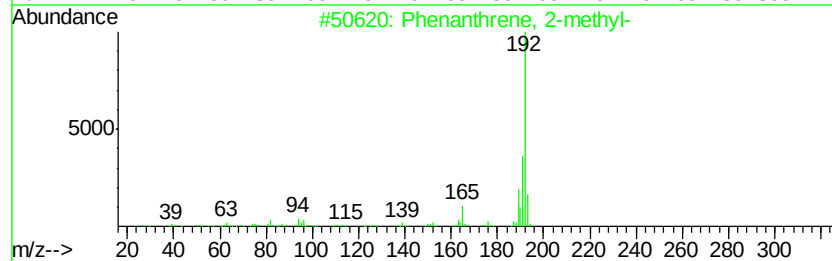
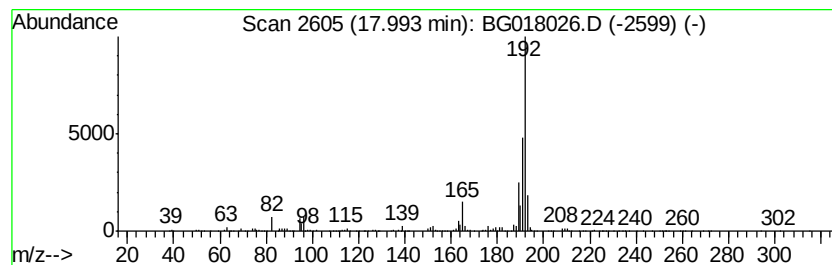
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 1H-Cyclopropa[l]phenanthren... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.99	7.28 ng	636962	Phenanthrene-d10	16.99

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3		1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	96
4		Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
5		Anthracene, 2-methyl-	192	C15H12	000613-12-7	95



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018026.D
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ClientSampleId :
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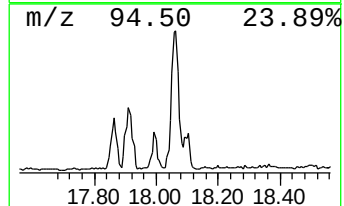
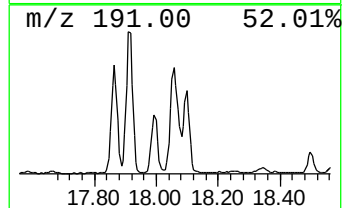
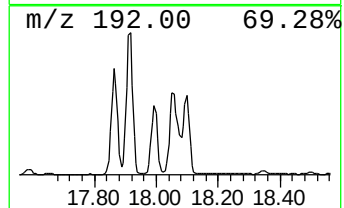
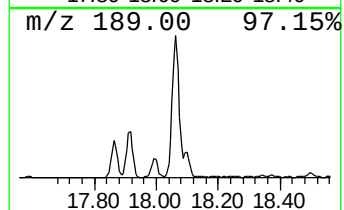
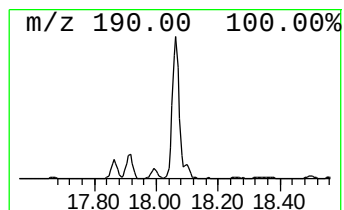
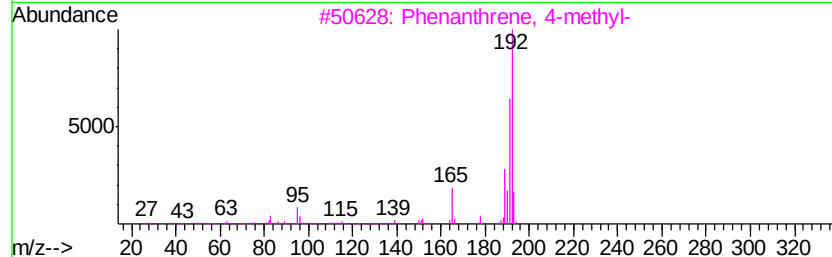
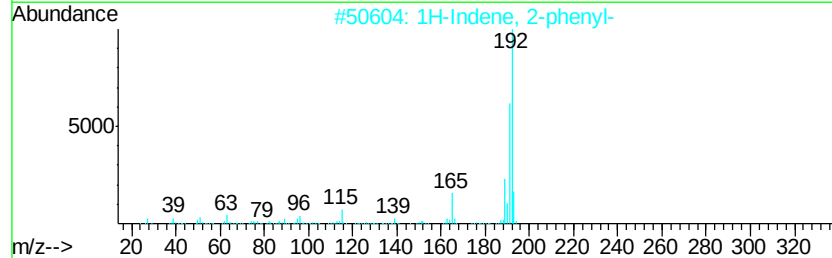
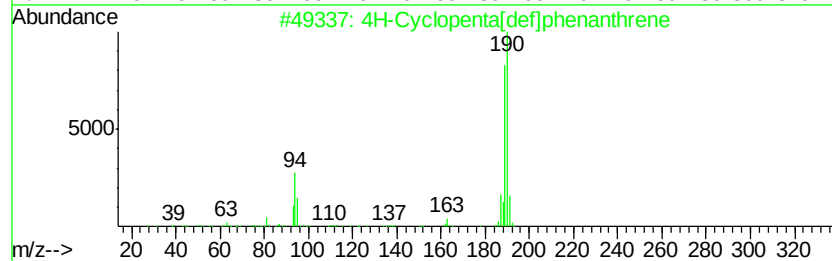
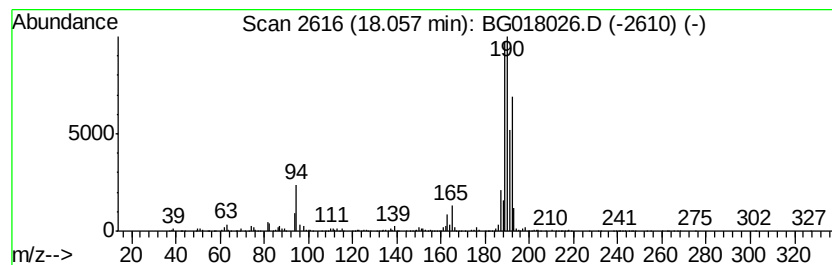
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.06	24.00 ng	2099640	Phenanthrene-d10	16.99

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	38
3		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	35
4		Anthracene, 1-methyl-	192	C15H12	000610-48-0	30
5		5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	30



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
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Acq On : 21 Jul 2015 17:09
Operator : TP/UM
Sample : G2954-20
Misc :
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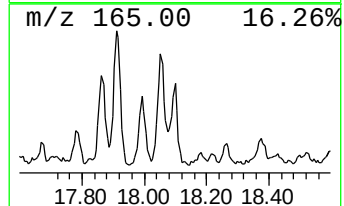
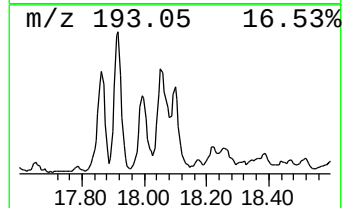
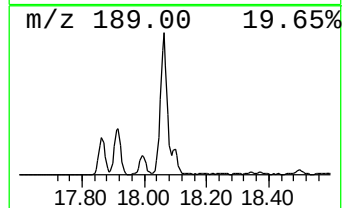
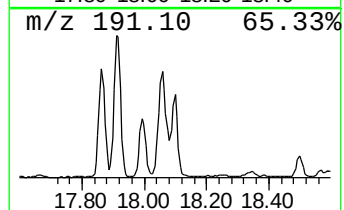
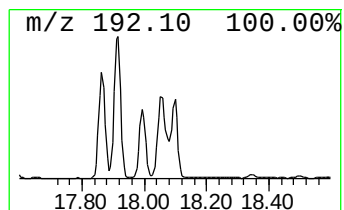
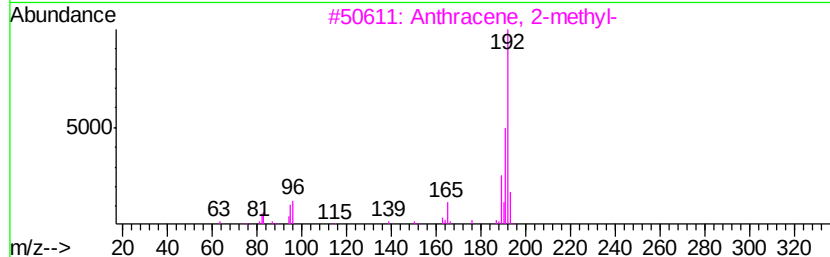
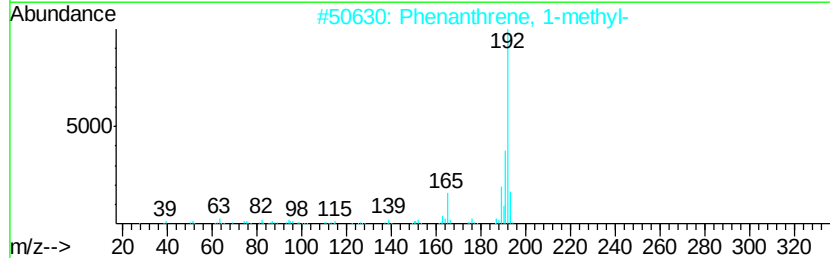
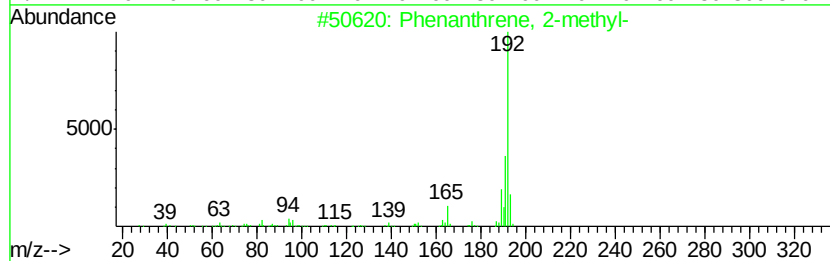
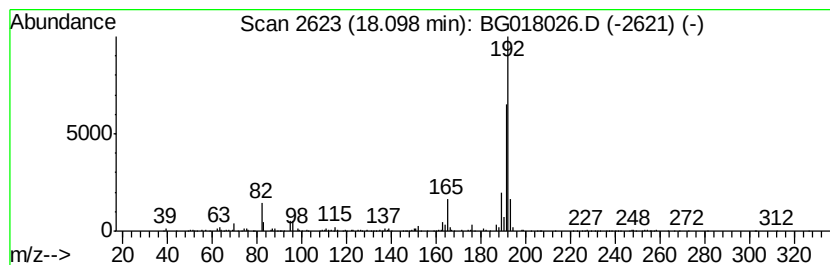
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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Anthracene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.10	6.15 ng	538500	Phenanthrene-d10	16.99	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	91



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
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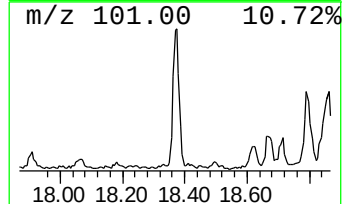
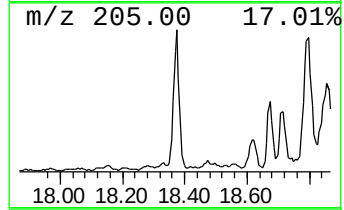
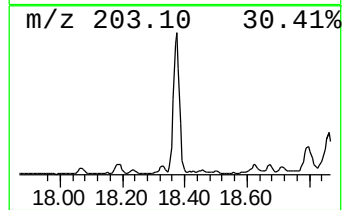
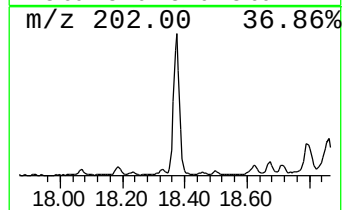
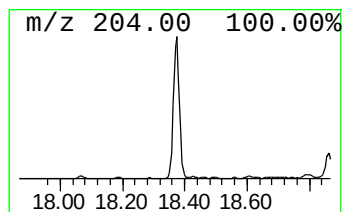
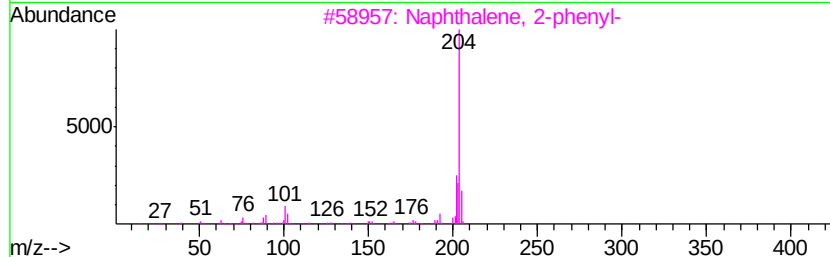
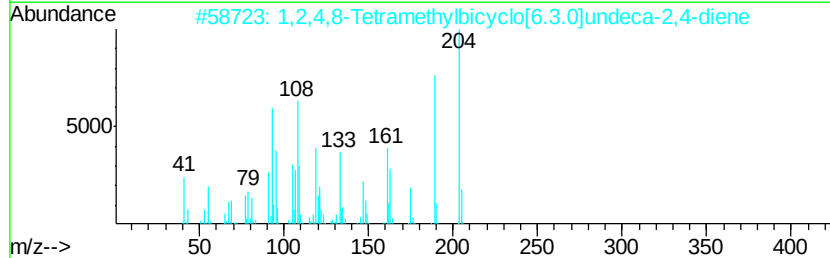
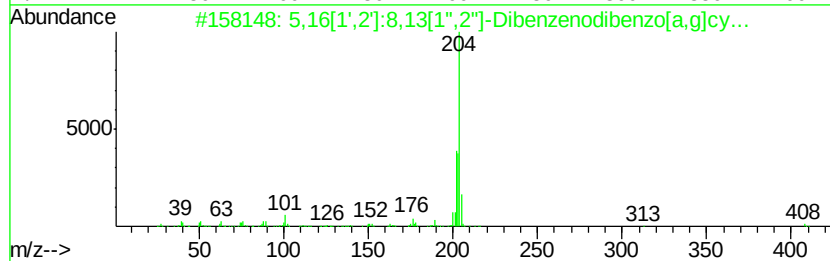
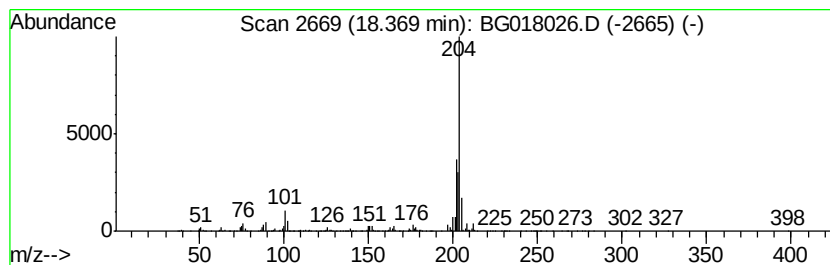
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Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.37	8.36 ng	731046	Phenanthrene-d10	16.99	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
2	1,2,4,8-Tetramethylbicyclo[6.3.0]...	204	C15H24	137235-51-9	83
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	62
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	53



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018026.D
Acq On : 21 Jul 2015 17:09
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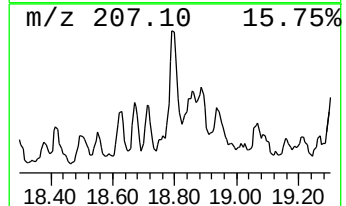
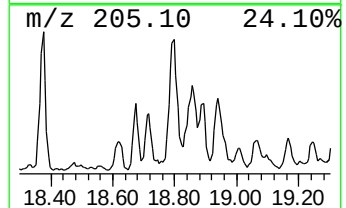
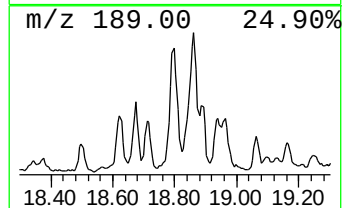
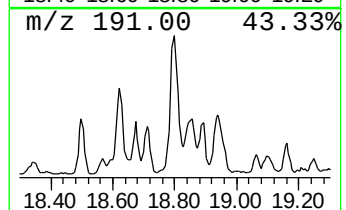
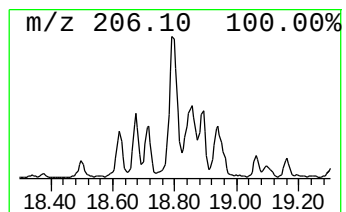
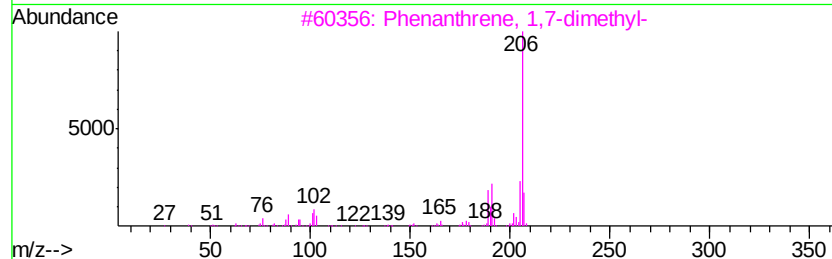
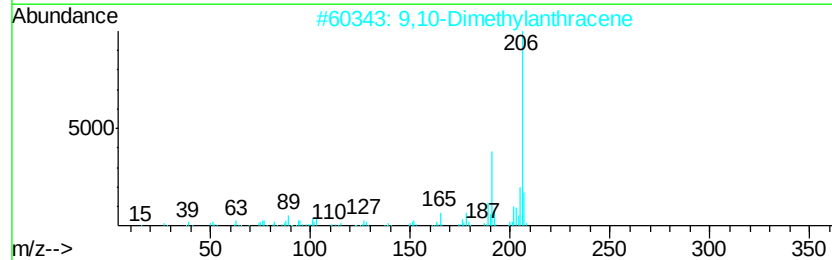
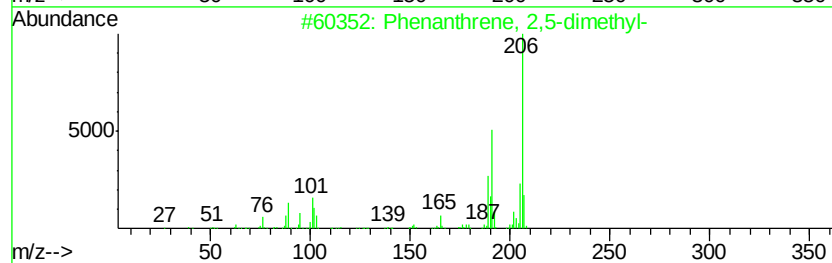
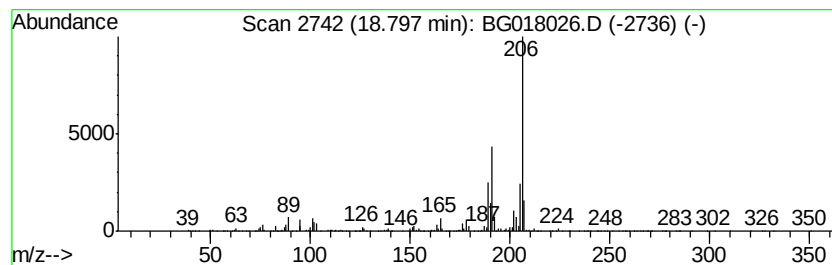
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.80	9.51 ng	832489	Phenanthrene-d10	16.99

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2			9,10-Dimethylantracene	206	C16H14	000781-43-1	91
3			Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
4			Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
5			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	81



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018026.D
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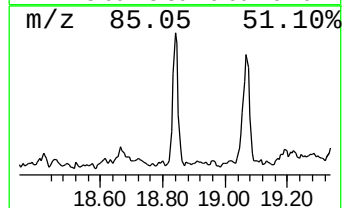
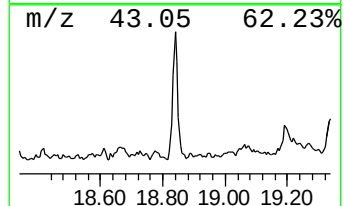
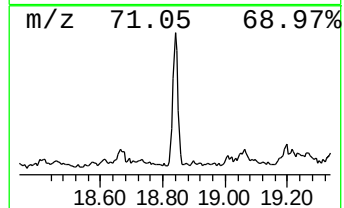
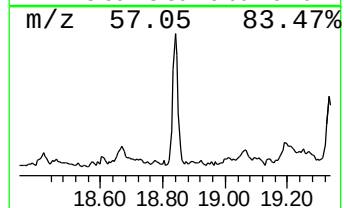
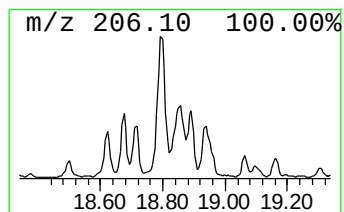
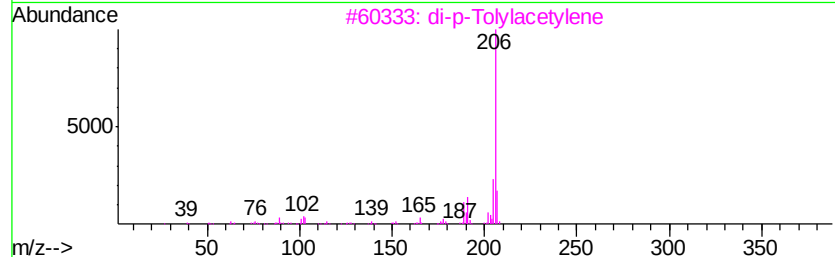
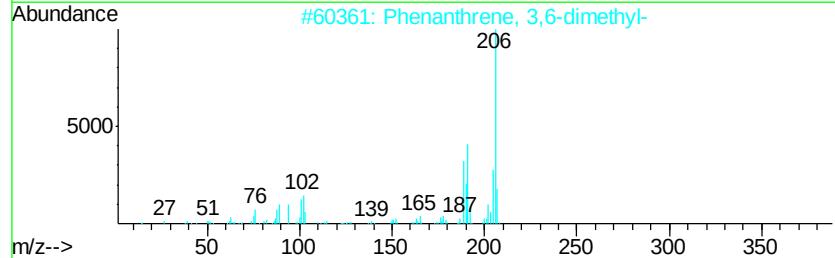
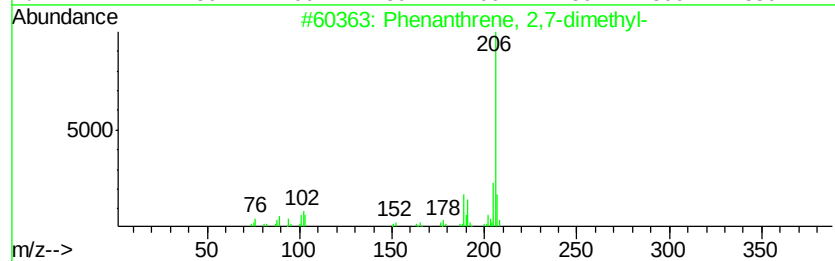
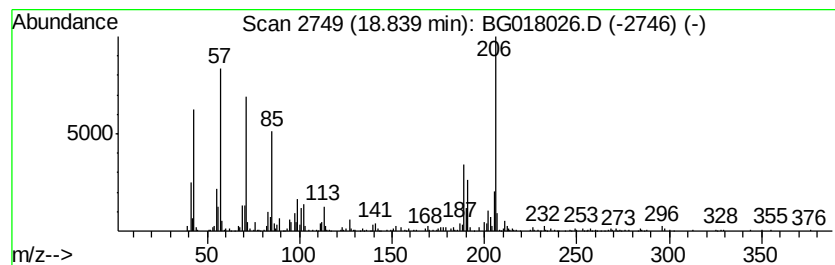
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Phenanthrene, 2,7-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.84	8.26 ng	722908	Phenanthrene-d10	16.99

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	76
2			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	64
3			di-p-Tolylacetylene	206	C16H14	002789-88-0	52
4			Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	49
5			Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	49



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018026.D
Acq On : 21 Jul 2015 17:09
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Sample : G2954-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

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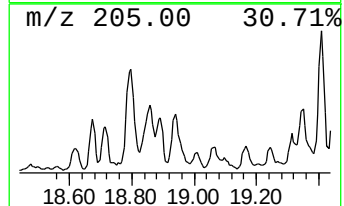
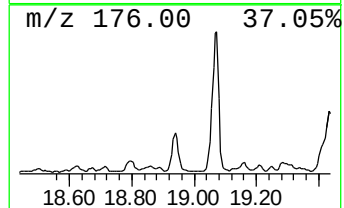
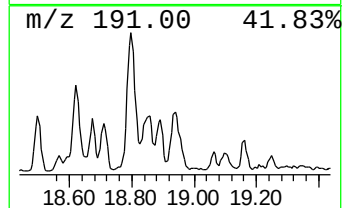
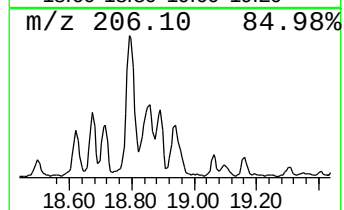
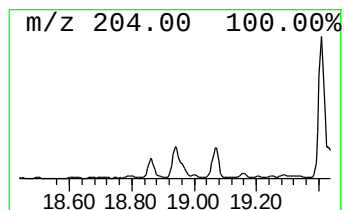
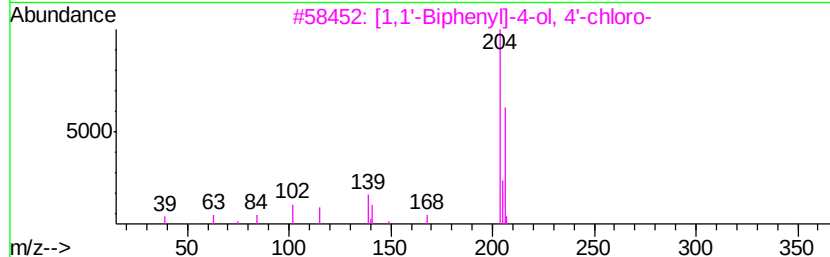
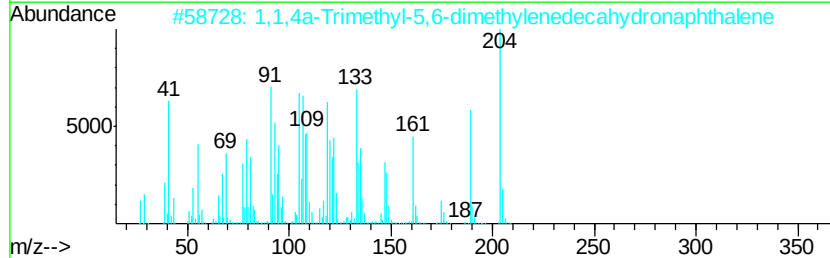
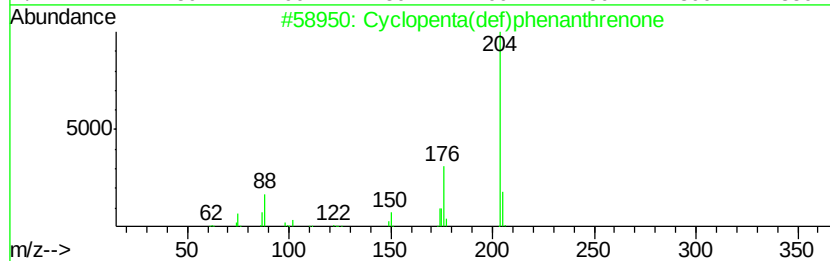
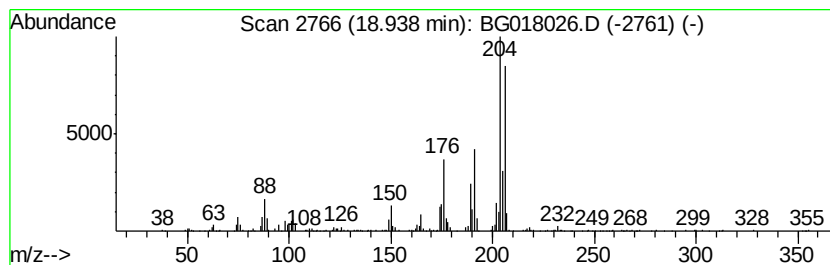
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Cyclopenta(def)phenanthrenone Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.94	6.82 ng	596639	Phenanthrene-d10	16.99

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	78
2		1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	64
3		[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	52
4		Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	49
5		1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	49



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
Data File : BG018026.D
Acq On : 21 Jul 2015 17:09
Operator : TP/UM
Sample : G2954-20
Misc :
ALS Vial : 8 Sample Multiplier: 1

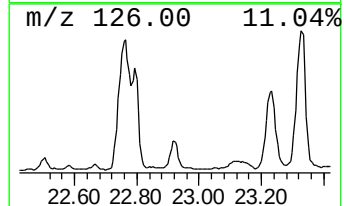
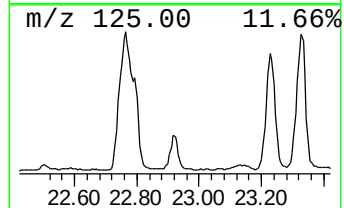
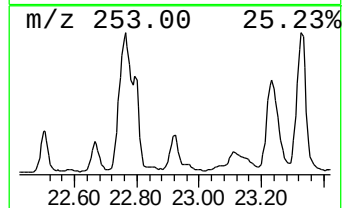
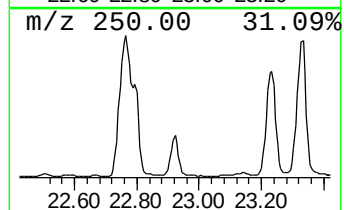
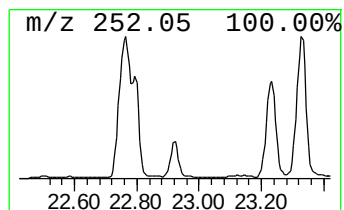
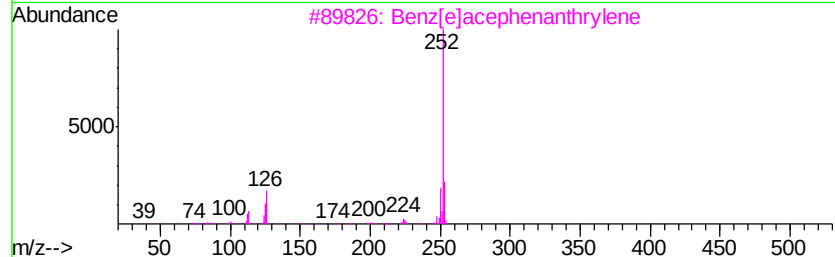
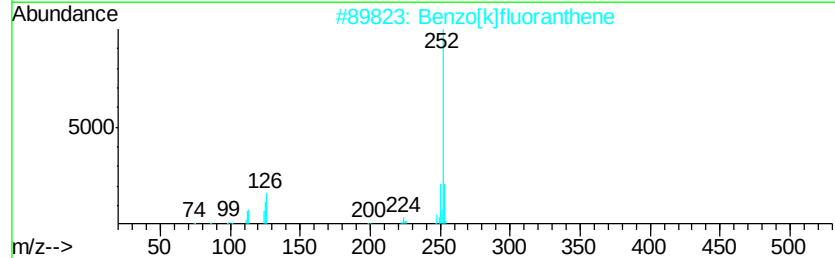
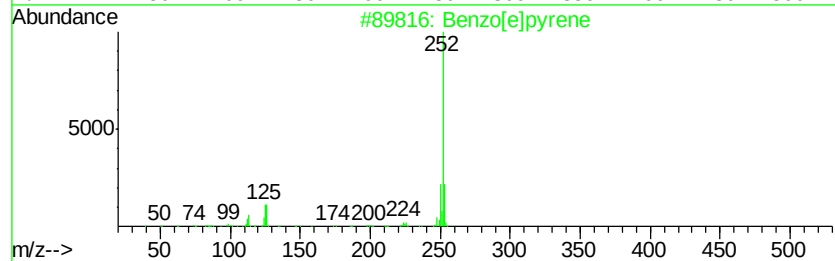
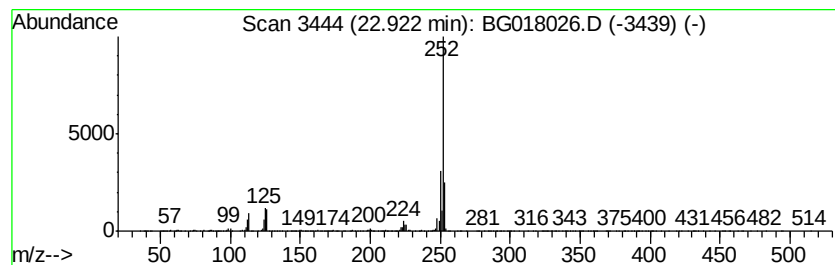
Instrument :
BNA_G
ClientSampleId :
TEC-B2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Benzo[e]pyrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.92	10.30 ng	1053230	Perylene-d12	23.42
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Benzo[e]pyrene	252 C20H12	000192-97-2	96
2	Benzo[k]fluoranthene	252 C20H12	000207-08-9	95
3	Benz[e]acephenanthrylene	252 C20H12	000205-99-2	90
4	Benzo[j]fluoranthene	252 C20H12	000205-82-3	89
5	Benzo[a]pyrene	252 C20H12	000050-32-8	87



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072115\
 Data File : BG018026.D
 Acq On : 21 Jul 2015 17:09
 Operator : TP/UM
 Sample : G2954-20
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TEC-B2

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG071715.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...	2.83	11.3	ng	448821	1	7.57	797125	20.0
2-Pentanone, 4-hy...	4.72	38.5	ng	1534600	1	7.57	797125	20.0
unknown7.11	7.11	92.0	ng	3667570	1	7.57	797125	20.0
2-Propanol, 1-(2-...	7.36	5.8	ng	230202	1	7.57	797125	20.0
[1,1'-Biphenyl]-4...	15.58	4.1	ng	362985	3	14.23	1779120	20.0
Heptadecane	15.97	4.2	ng	365501	4	16.99	1749880	20.0
9H-Fluorene, 3-me...	16.29	4.7	ng	409322	4	16.99	1749880	20.0
Dibenzothiophene	16.81	4.0	ng	349403	4	16.99	1749880	20.0
Phenanthrene, 1-m...	17.86	9.6	ng	843309	4	16.99	1749880	20.0
Phenanthrene, 2-m...	17.91	17.7	ng	1546060	4	16.99	1749880	20.0
1H-Cyclopropa[l]p...	17.99	7.3	ng	636962	4	16.99	1749880	20.0
4H-Cyclopenta[def...	18.06	24.0	ng	2099640	4	16.99	1749880	20.0
Anthracene, 2-met...	18.10	6.2	ng	538500	4	16.99	1749880	20.0
5,16[1',2']:8,13[...	18.37	8.4	ng	731046	4	16.99	1749880	20.0
Phenanthrene, 2,5...	18.80	9.5	ng	832489	4	16.99	1749880	20.0
Phenanthrene, 2,7...	18.84	8.3	ng	722908	4	16.99	1749880	20.0
Cyclopenta(def)ph...	18.94	6.8	ng	596639	4	16.99	1749880	20.0
Benzo[e]pyrene	22.92	10.3	ng	1053230	6	23.42	2044240	20.0