LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060415\
Data File : BG017459.D
Acq On : 5 Jun 2015 3:40
Operator : TP/IZ
Sample : G2464-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SB-13D

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.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	2.769	11	14	20	rBV	55474	69021	6.08%	0.892%
2	4.732	344	348	354	rVB	16077	22083	1.95%	0.285%
3	5.214	424	430	439	rBV	338179	478803	42.20%	6.187%
4	6.829	698	705	714	rBV	350301	544099	47.95%	7.031%
5	7.164	755	762	773	rBV	348542	530735	46.78%	6.858%
6	7.623	834	840	847	rVB	64362	98354	8.67%	1.271%
7	7.946	889	895	903	rVB	219745	349602	30.81%	4.518%
8	8.786	1031	1038	1047	rBV	195023	324942	28.64%	4.199%
9	10.419	1309	1316	1322	rBV	84376	136358	12.02%	1.762%
10	12.905	1732	1739	1749	rBV	440568	631865	55.69%	8.165%
11	13.751	1878	1883	1891	rBV	41955	60445	5.33%	0.781%
12	14.291	1965	1975	1982	rBV2	128985	203817	17.96%	2.634%
13	15.784	2223	2229	2239	rBV	516869	726788	64.05%	9.392%
14	16.800	2398	2402	2408	rBV2	8523	12455	1.10%	0.161%
15	17.041	2437	2443	2447	rBV2	202330	281782	24.83%	3.641%
16	17.082	2447	2450	2454	rVB	21766	25936	2.29%	0.335%
17	17.170	2461	2465	2471	rVB4	8393	13417	1.18%	0.173%
18	17.540	2523	2528	2534	rVB4	7604	12157	1.07%	0.157%
19	17.946	2594	2597	2603	rBV5	19114	34279	3.02%	0.443%
20	18.151	2628	2632	2638	rVB4	36828	48102	4.24%	0.622%
21	18.234	2641	2646	2652	rBV4	11253	20899	1.84%	0.270%
22	18.328	2658	2662	2667	rBV2	39599	55259	4.87%	0.714%
23	18.386	2667	2672	2676	rBV3	19691	28641	2.52%	0.370%
24	18.516	2689	2694	2698	rVB2	43203	56598	4.99%	0.731%
25	18.663	2712	2719	2723	rVB3	57792	73290	6.46%	0.947%
26	18.792	2732	2741	2746	rBV3	21621	38805	3.42%	0.501%
27	19.044	2780	2784	2789	rVB3	9412	13483	1.19%	0.174%
28	19.103	2789	2794	2798	rBV	30412	42762	3.77%	0.553%
29	19.162	2799	2804	2809	rVB	133509	163668	14.42%	2.115%
30	19.250	2815	2819	2823	rVB6	8663	12537	1.10%	0.162%
31	19.368	2833	2839	2847	rVB4	12603	24095	2.12%	0.311%
32	19.468	2847	2856	2860	rBV2	39317	58280	5.14%	0.753%
33	19.550	2866	2870	2876	rBV	11859	17806	1.57%	0.230%
34	19.626	2878	2883	2887	rBV	24490	36528	3.22%	0.472%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060415\
Data File : BG017459.D
Acq On : 5 Jun 2015 3:40
Operator : TP/IZ
Sample : G2464-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SB-13D

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	19.679	2887	2892	2897	rVB	908365	1134653	100.00%	14.662%
36	19.891	2923	2928	2932	rVB	169948	212740	18.75%	2.749%
37	20.419	3014	3018	3022	rBV	17628	22631	1.99%	0.292%
38	20.954	3104	3109	3116	rBV4	35905	57645	5.08%	0.745%
39	21.148	3138	3142	3148	rBV	90405	98599	8.69%	1.274%
40	21.230	3150	3156	3160	rVV	324186	408701	36.02%	5.281%
41	21.265	3160	3162	3170	rVB2	24901	34970	3.08%	0.452%
42	22.270	3329	3333	3342	rBV7	18893	35175	3.10%	0.455%
43	22.399	3351	3355	3359	rBV6	8389	13051	1.15%	0.169%
44	22.793	3417	3422	3426	rBV4	16482	35845	3.16%	0.463%
45	23.269	3499	3503	3508	rVB2	12330	20900	1.84%	0.270%
46	23.363	3514	3519	3525	rVB3	19465	37837	3.33%	0.489%
47	23.463	3529	3536	3552	rVB	195919	378033	33.32%	4.885%

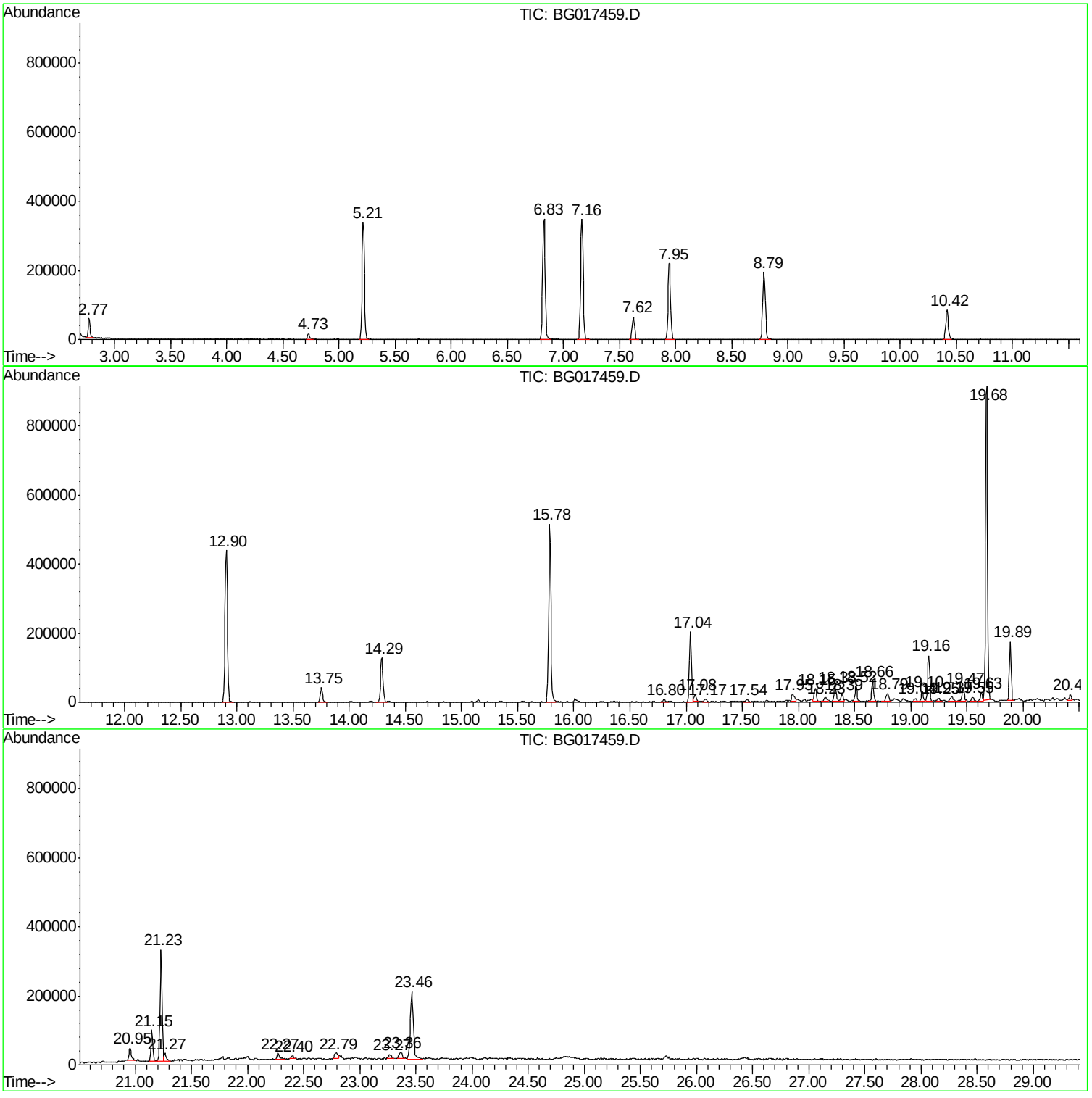
Sum of corrected areas: 7738471

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060415\
Data File : BG017459.D
Acq On : 5 Jun 2015 3:40
Operator : TP/IZ
Sample : G2464-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SB-13D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060415\
Data File : BG017459.D
Acq On : 5 Jun 2015 3:40
Operator : TP/IZ
Sample : G2464-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SB-13D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

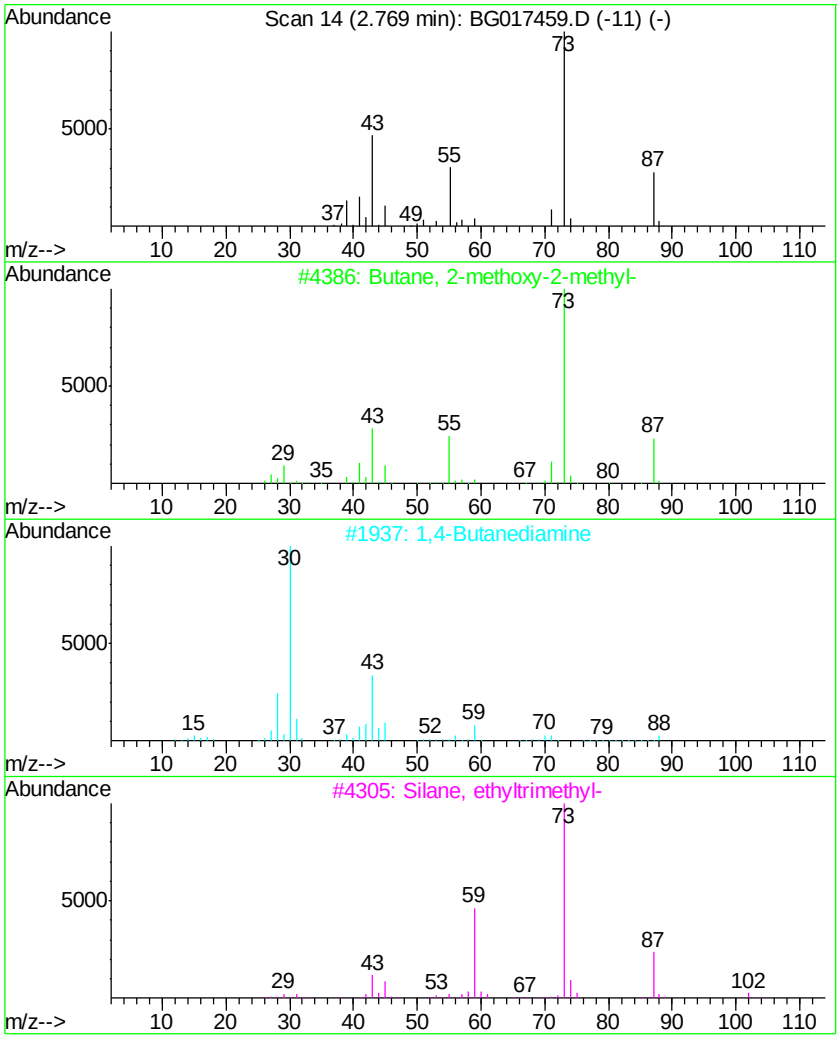
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

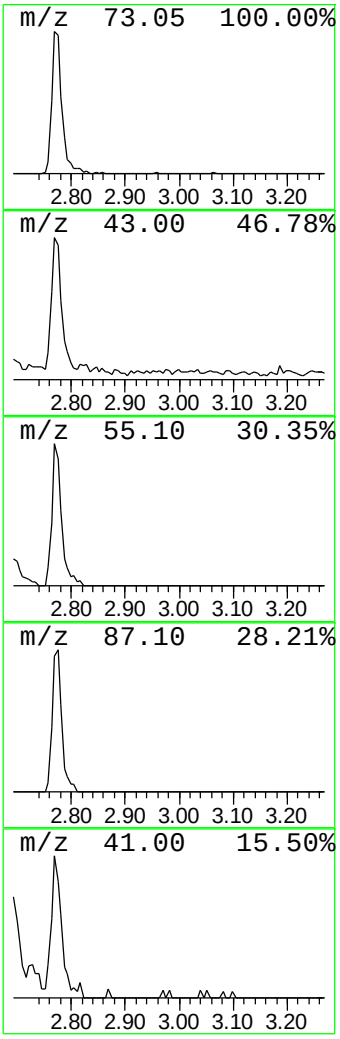
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.77	14.04 ng	69021	1,4-Dichlorobenzene-d4	7.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	50
2	1,4-Butanediamine	88	C4H12N2	000110-60-1	9
3	Silane, ethyltrimethyl-	102	C5H14Si	003439-38-1	9
4	N-Ethylformamide	73	C3H7NO	000627-45-2	5
5	Isobutylamine	73	C4H11N	000078-81-9	5





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060415\
Data File : BG017459.D
Acq On : 5 Jun 2015 3:40
Operator : TP/IZ
Sample : G2464-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SB-13D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.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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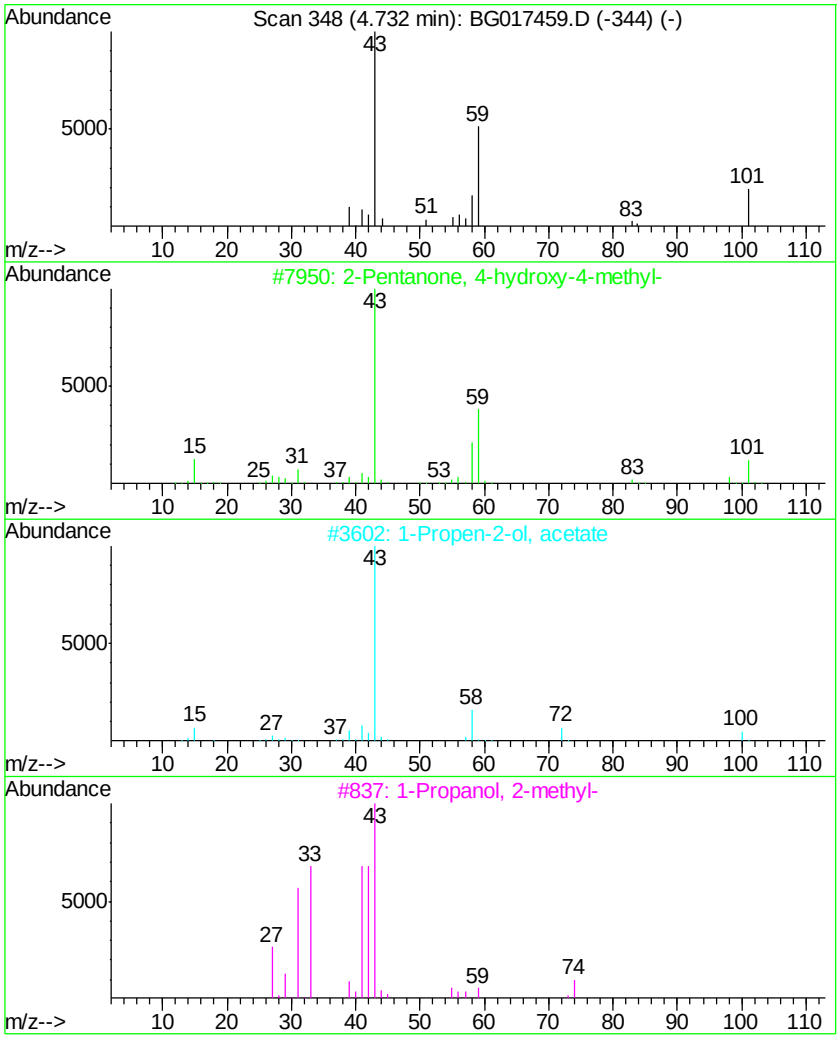
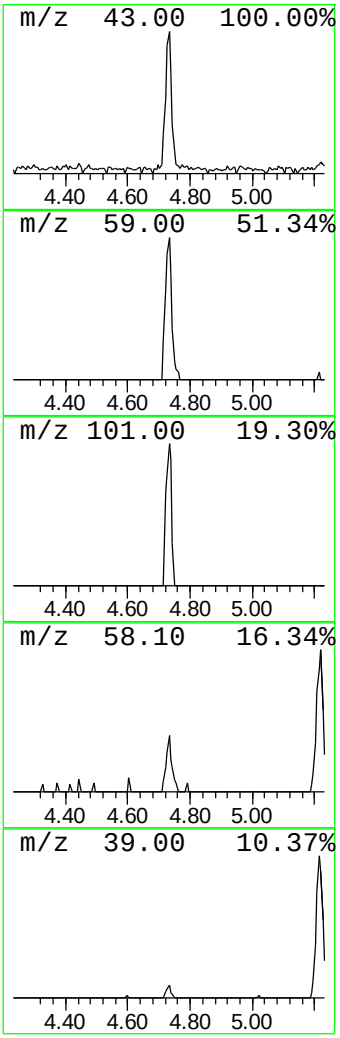
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.73	4.49 ng	22083	1,4-Dichlorobenzene-d4	7.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	9
3	1-Propanol, 2-methyl-	74	C4H10O	000078-83-1	9
4	3-Oxetanol, 2,2,3-trimethyl-	116	C6H12O2	025910-96-7	9
5	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	9





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060415\
Data File : BG017459.D
Acq On : 5 Jun 2015 3:40
Operator : TP/IZ
Sample : G2464-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SB-13D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.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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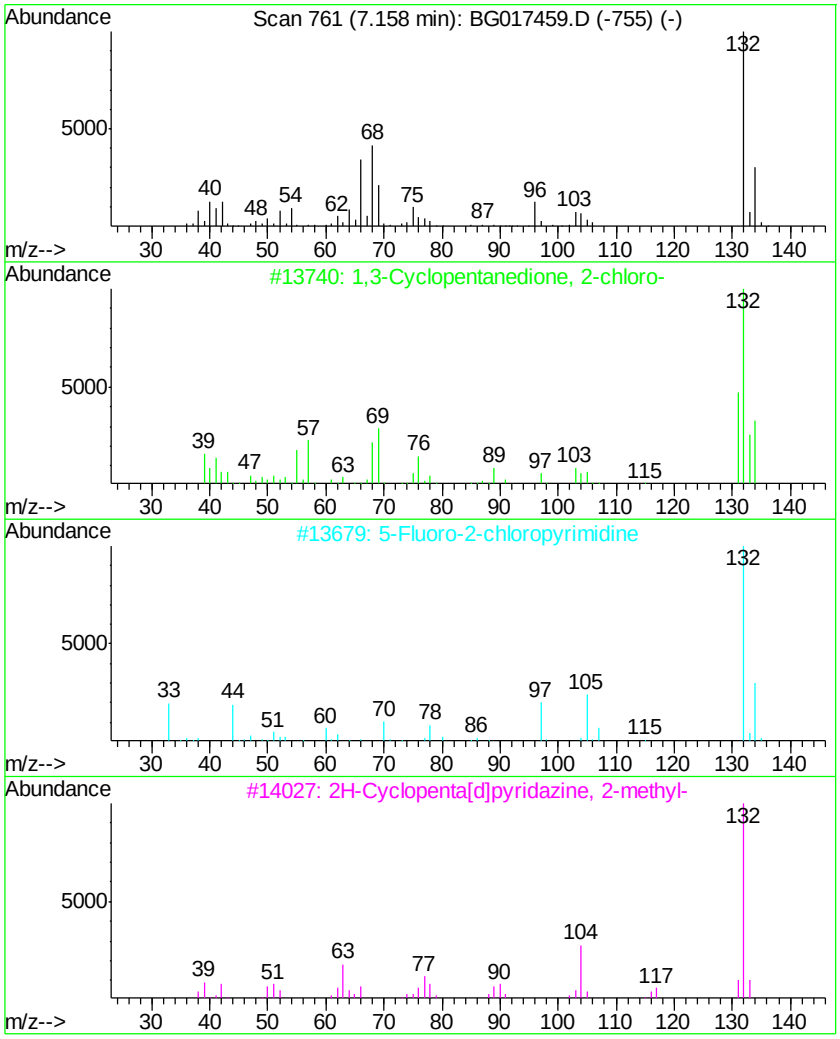
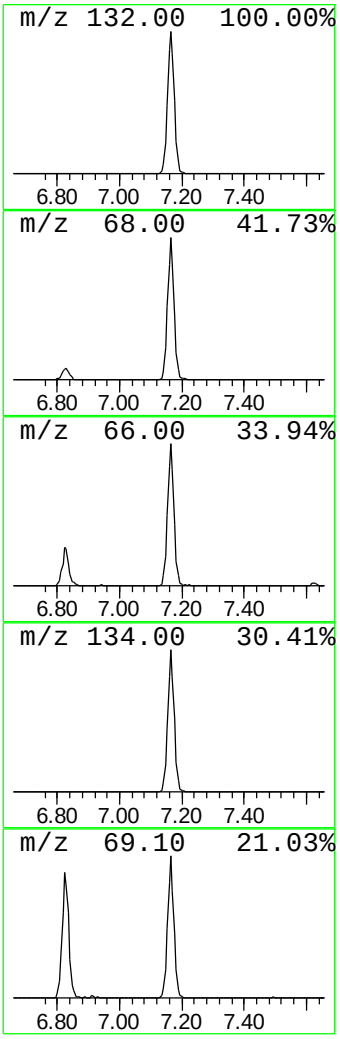
Peak Number 3 unknown7.16 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.16	107.92 ng	530735	1,4-Dichlorobenzene-d4	7.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Cyclopentanedione, 2-chloro-	132	C5H5ClO2	014203-19-1	35
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	27
3	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	27
4	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	27
5	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	12





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060415\
Data File : BG017459.D
Acq On : 5 Jun 2015 3:40
Operator : TP/IZ
Sample : G2464-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SB-13D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.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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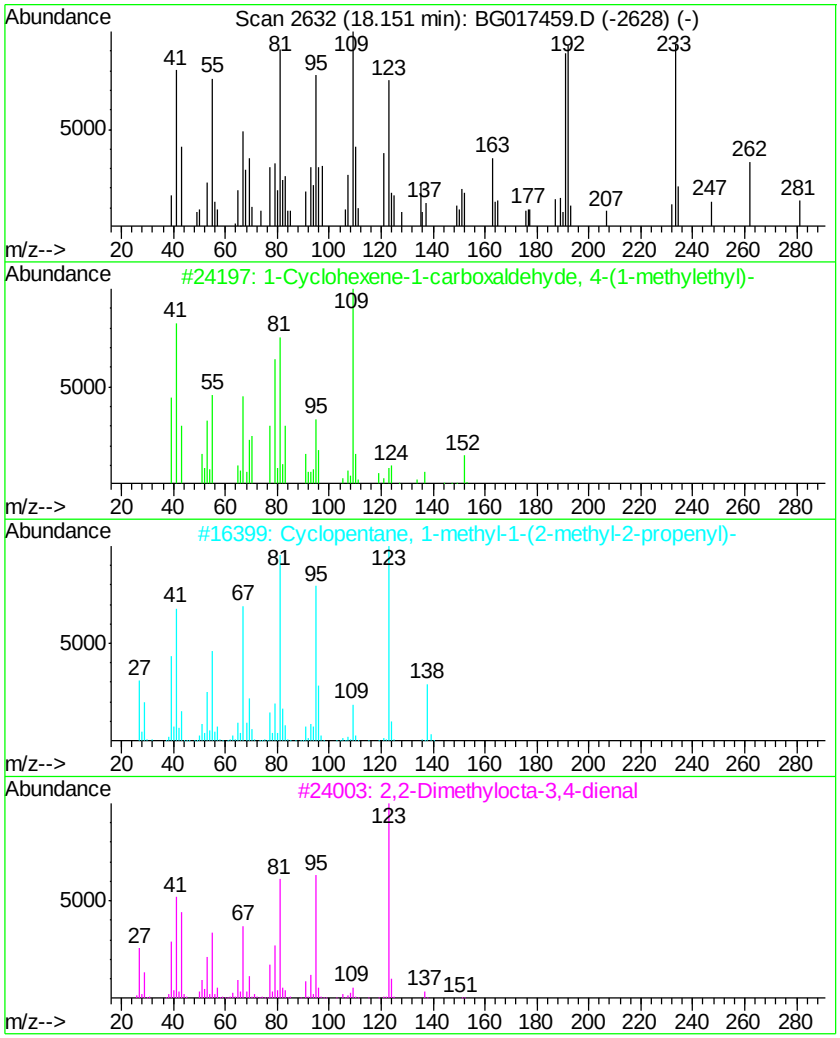
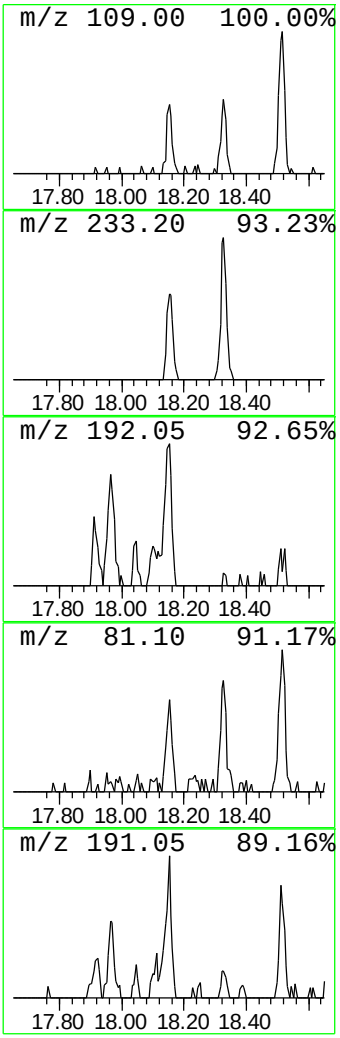
Peak Number 5 unknown18.15 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.15	3.41 ng	48102	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Cyclohexene-1-carboxaldehyde, ...	152	C10H16O	021391-98-0	35
2	Cyclopentane, 1-methyl-1-(2-meth...	138	C10H18	074764-47-9	27
3	2,2-Dimethylocta-3,4-dienal	152	C10H16O	000590-71-6	22
4	Anthracene, 9-butyltetradecahydro-	248	C18H32	055133-89-6	22
5	2-Cyclohexene-1-carboxylic acid,...	182	C10H14O3	001489-55-0	22





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060415\
Data File : BG017459.D
Acq On : 5 Jun 2015 3:40
Operator : TP/IZ
Sample : G2464-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SB-13D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

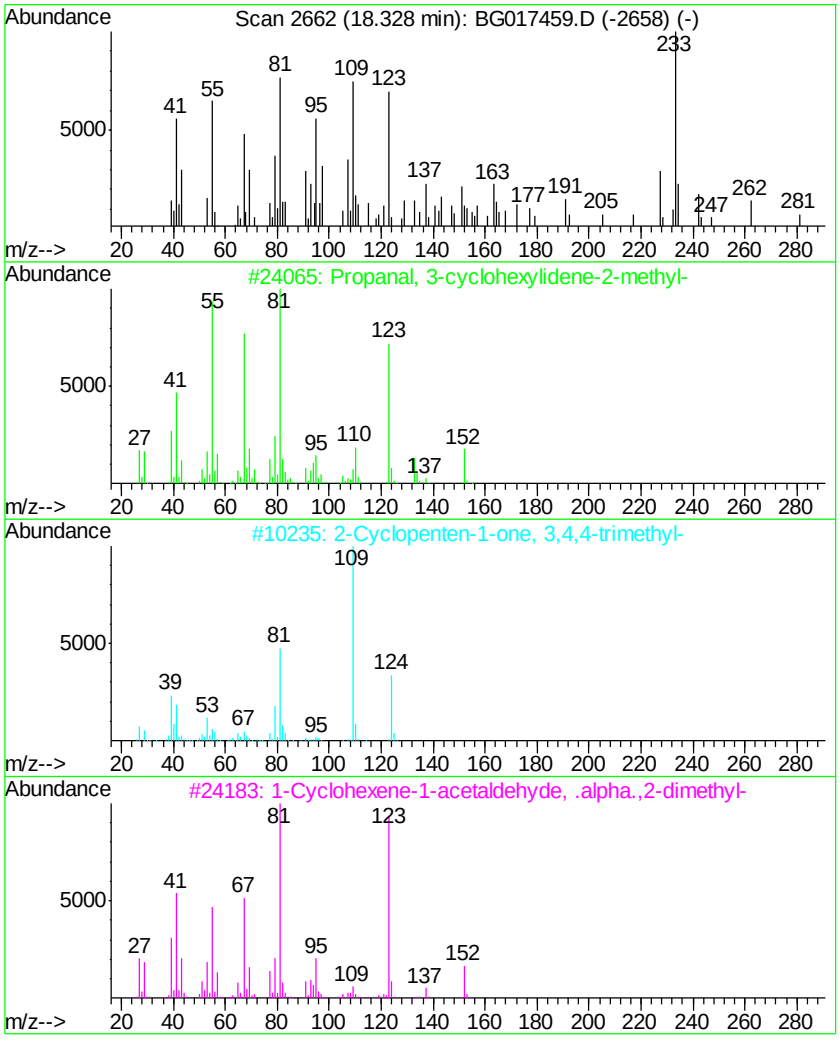
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

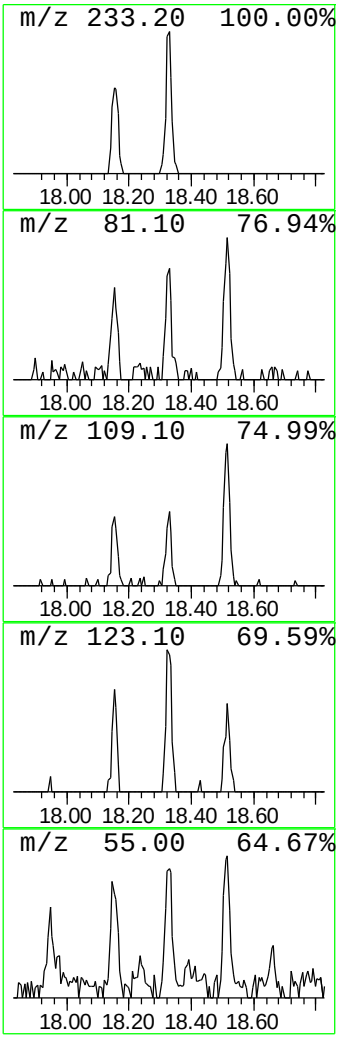
****

Peak Number 6 unknown18.33 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.33	3.92 ng	55259	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanal, 3-cyclohexylidene-2-me...	152	C10H16O	053155-83-2	30
2	2-Cyclopenten-1-one, 3,4,4-trime...	124	C8H12O	030434-65-2	27
3	1-Cyclohexene-1-acetaldehyde, .a...	152	C10H16O	053155-80-9	25
4	2-Furanacetaldehyde, .alpha.-iso...	152	C9H12O2	031681-30-8	22
5	1H-Indene, 5-decyloctahydro-	264	C19H36	055044-35-4	22





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060415\
Data File : BG017459.D
Acq On : 5 Jun 2015 3:40
Operator : TP/IZ
Sample : G2464-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SB-13D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.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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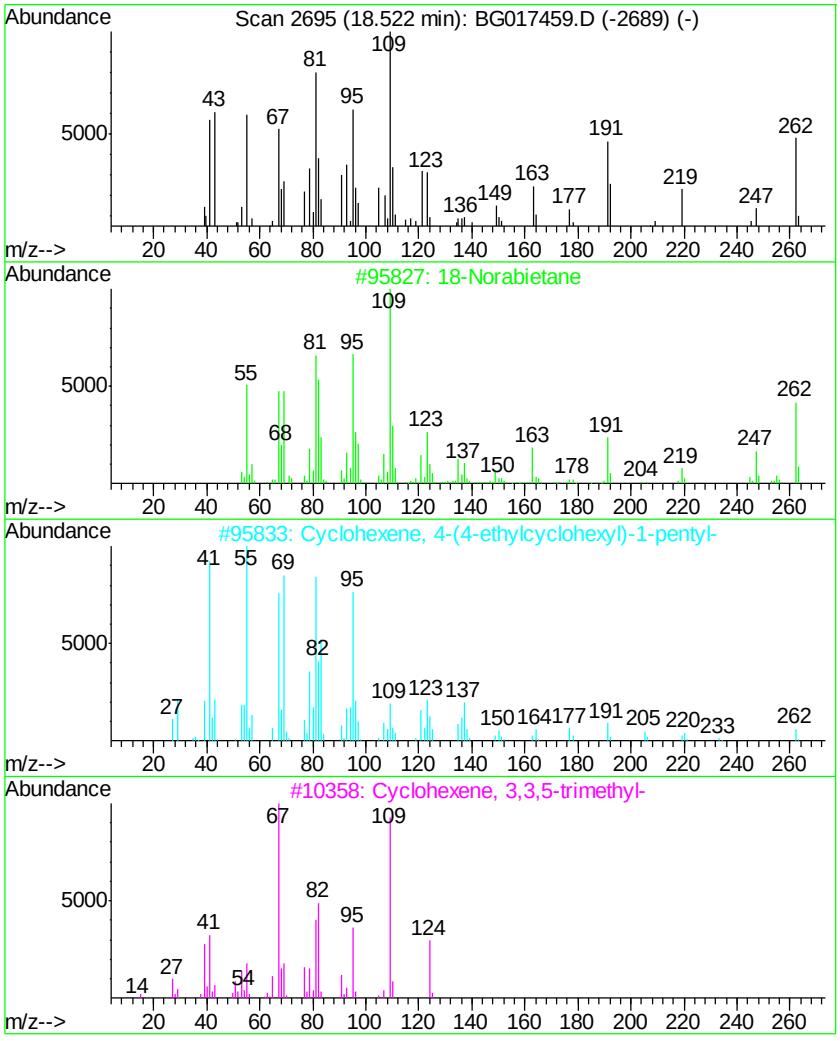
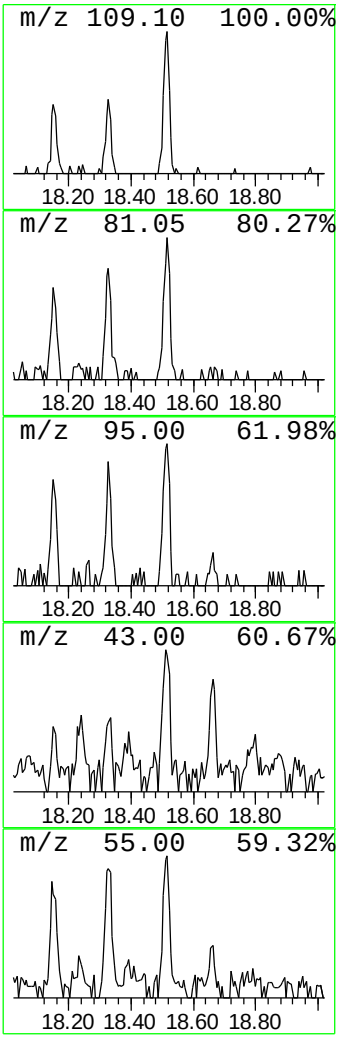
Peak Number 7 18-Norabietane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.52	4.02 ng	56598	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	18-Norabietane	262	C19H34	1000293-16-6	93
2	Cyclohexene, 4-(4-ethylcyclohexy...	262	C19H34	301643-32-3	38
3	Cyclohexene, 3,3,5-trimethyl-	124	C9H16	000503-45-7	35
4	trans-3(10)-Caren-2-ol	152	C10H16O	1000151-66-5	35
5	8-Hexadecyne	222	C16H30	019781-86-3	22





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060415\
Data File : BG017459.D
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Operator : TP/IZ
Sample : G2464-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SB-13D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.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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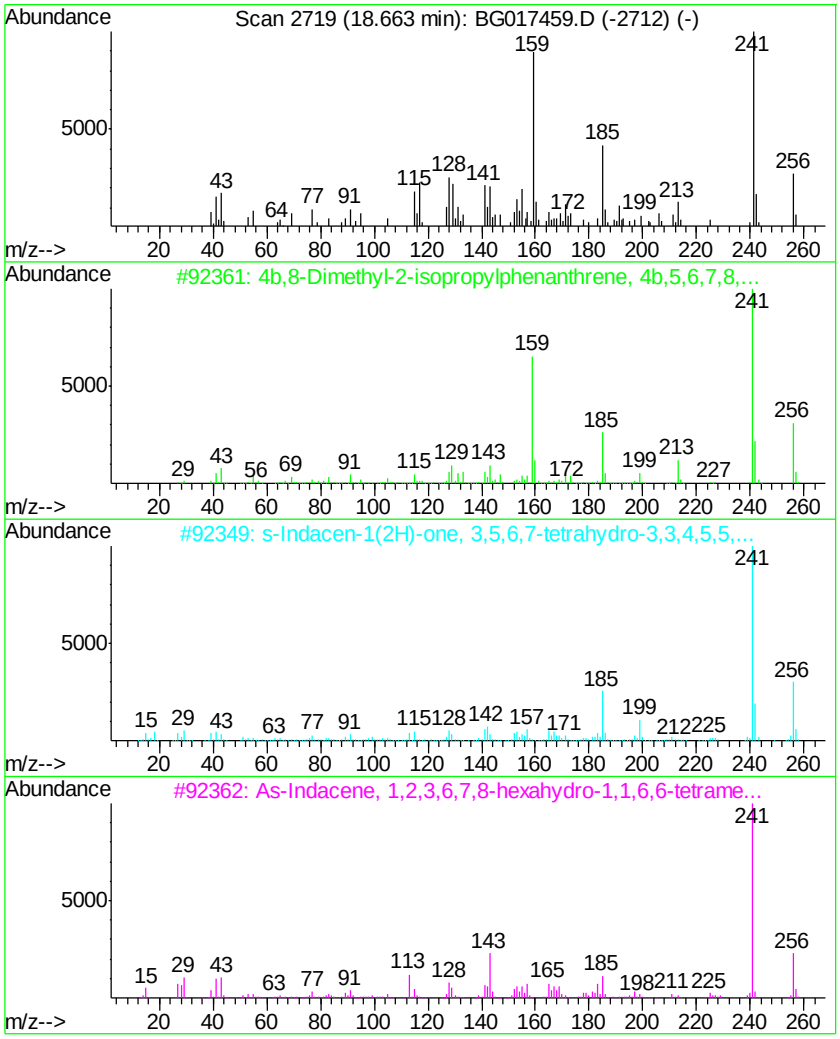
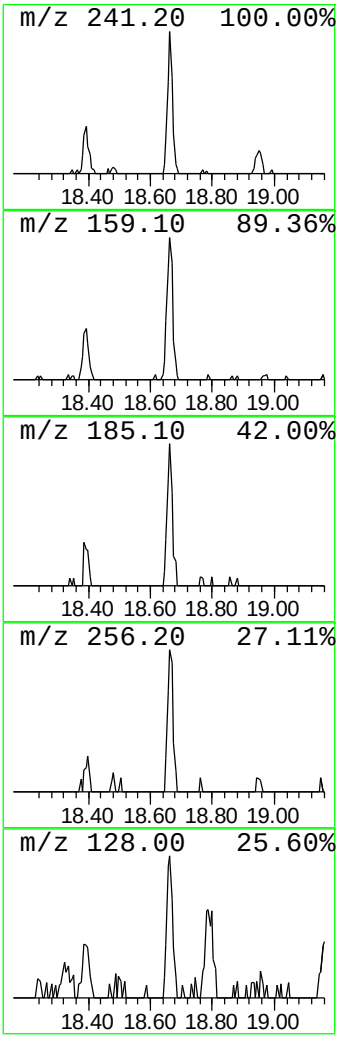
Peak Number 8 4b,8-Dimethyl-2-isopropylph... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.66	5.20 ng	73290	Phenanthrene-d10	17.04

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4b,8-Dimethyl-2-isopropylphenant...	256	C19H28	1000197-14-1	95
2	s-Indacen-1(2H)-one, 3,5,6,7-tet...	256	C18H24O	038754-94-8	51
3	As-Indacene, 1,2,3,6,7,8-hexahyd...	256	C19H28	017465-47-3	42
4	1-Methyl-10,18-bisnorabieta-8,11...	256	C19H28	1000293-16-9	25
5	Methyl 3-amino-2-cyano-3-(3-indo...	241	C13H11N3O2	018234-27-0	20





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060415\
Data File : BG017459.D
Acq On : 5 Jun 2015 3:40
Operator : TP/IZ
Sample : G2464-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SB-13D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.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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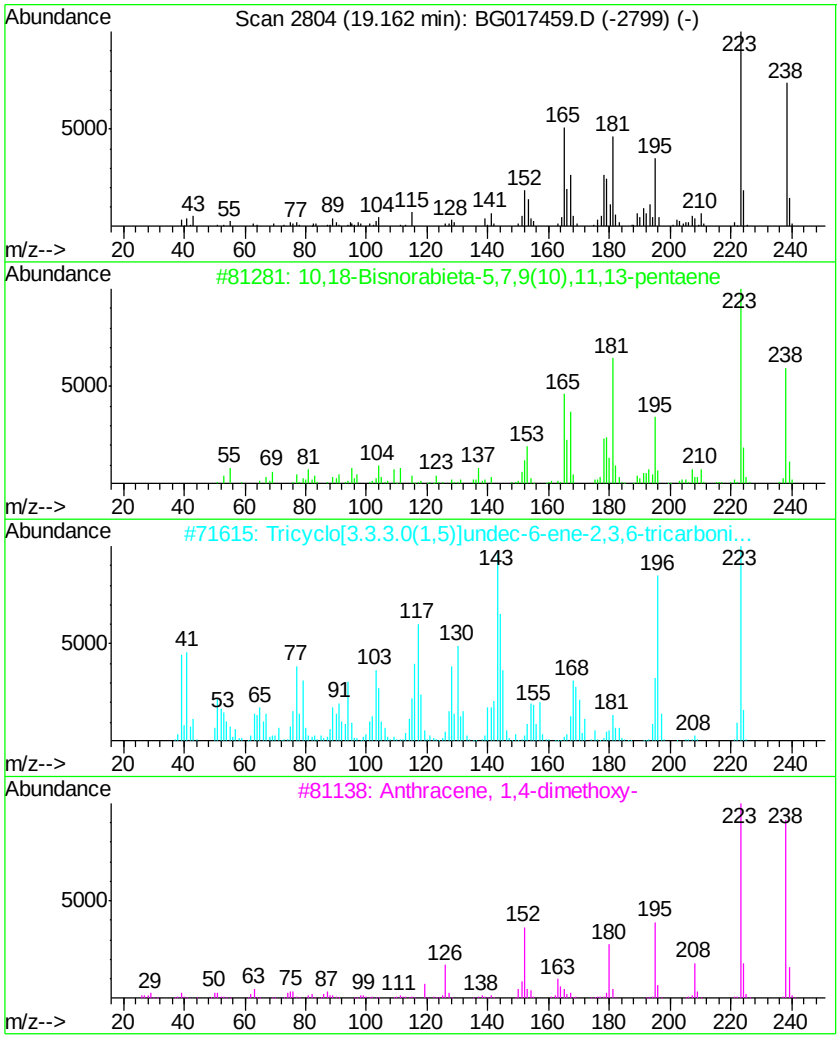
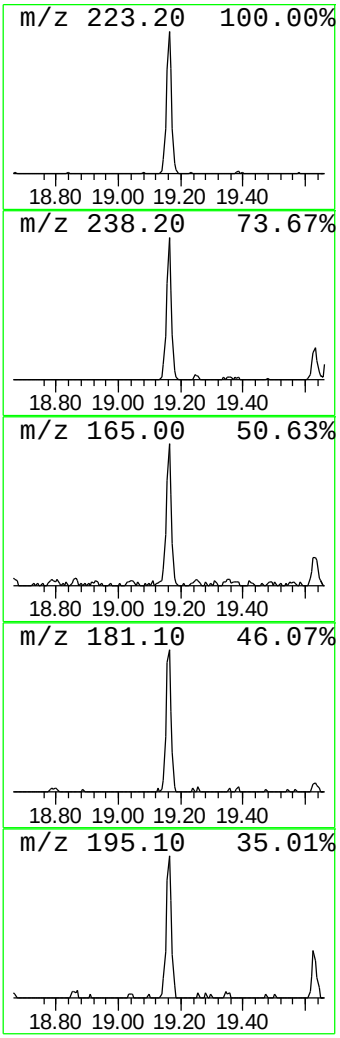
Peak Number 9 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.16	8.01 ng	163668	Chrysene-d12	21.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10,18-Bisnorabieta-5,7,9(10),11,...	238	C18H22	006566-19-4	98
2	Tricyclo[3.3.3.0(1,5)]undec-6-en...	223	C14H13N3	118894-71-6	59
3	Anthracene, 1,4-dimethoxy-	238	C16H14O2	013076-29-4	55
4	4,4'-Diisopropylbiphenyl	238	C18H22	018970-30-4	49
5	3-(N,N-Diethylamino)carbazole	238	C16H18N2	054994-31-9	43





Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060415\
Data File : BG017459.D
Acq On : 5 Jun 2015 3:40
Operator : TP/IZ
Sample : G2464-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SB-13D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

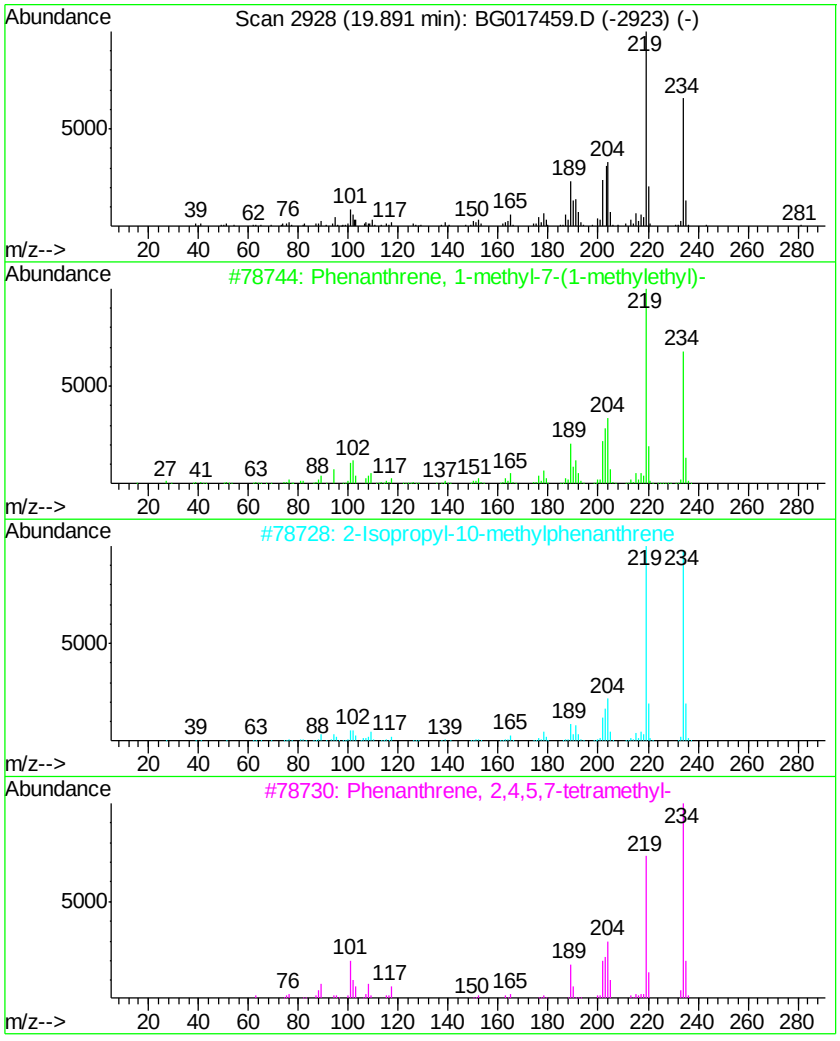
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

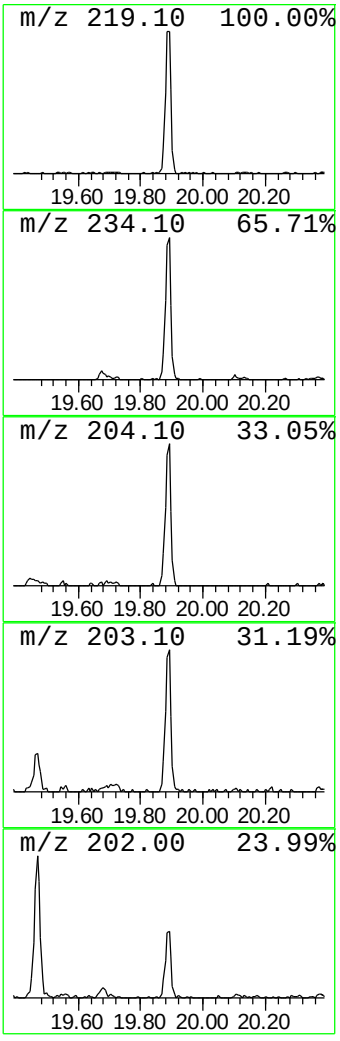
****

Peak Number 10 Phenanthrene, 1-methyl-7-(1... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.89	10.41 ng	212740	Chrysene-d12	21.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-7-(1-meth...	234	C18H18	000483-65-8	99
2	2-Isopropyl-10-methylphenanthrene	234	C18H18	066552-97-4	95
3	Phenanthrene, 2,4,5,7-tetramethyl-	234	C18H18	007396-38-5	86
4	1-(10-Methylanthracen-9-yl)ethanone	234	C17H14O	036778-18-4	58
5	Phenanthrene, 3,4,5,6-tetramethyl-	234	C18H18	007343-06-8	58





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG060415\
Data File : BG017459.D
Acq On : 5 Jun 2015 3:40
Operator : TP/IZ
Sample : G2464-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : SB-13D

Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG060315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methoxy...	2.77	14.0	ng	69021	1	7.62	98354	20.0
2-Pentanone, 4-hy...	4.73	4.5	ng	22083	1	7.62	98354	20.0
unknown7.16	7.16	107.9	ng	530735	1	7.62	98354	20.0
unknown18.15	18.15	3.4	ng	48102	4	17.04	281782	20.0
unknown18.33	18.33	3.9	ng	55259	4	17.04	281782	20.0
18-Norabietane	18.52	4.0	ng	56598	4	17.04	281782	20.0
4b,8-Dimethyl-2-i...	18.66	5.2	ng	73290	4	17.04	281782	20.0
10,18-Bisnorabiet...	19.16	8.0	ng	163668	5	21.23	408701	20.0
Phenanthrene, 1-m...	19.89	10.4	ng	212740	5	21.23	408701	20.0