

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG060515\  
 Data File : BG017495.D  
 Acq On : 6 Jun 2015 6:09  
 Operator : TP/IZ  
 Sample : G2504-04  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-4

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<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.770       | 9             | 14          | 21           | rBV      | 145554         | 199579        | 11.84%          | 2.630%        |
| 2         | 4.726       | 341           | 347         | 352          | rBV      | 11870          | 17905         | 1.06%           | 0.236%        |
| 3         | 5.226       | 426           | 432         | 440          | rBV      | 140291         | 220613        | 13.09%          | 2.908%        |
| 4         | 6.841       | 700           | 707         | 716          | rBV      | 94988          | 161403        | 9.58%           | 2.127%        |
| 5         | 7.170       | 757           | 763         | 772          | rVB      | 294344         | 467264        | 27.72%          | 6.159%        |
| 6         | 7.623       | 833           | 840         | 846          | rBV      | 90338          | 139821        | 8.29%           | 1.843%        |
| 7         | 7.940       | 888           | 894         | 902          | rBV      | 273166         | 423212        | 25.11%          | 5.578%        |
| 8         | 8.786       | 1032          | 1038        | 1048         | rBV      | 238704         | 385702        | 22.88%          | 5.084%        |
| 9         | 10.419      | 1309          | 1316        | 1325         | rBV      | 115419         | 201117        | 11.93%          | 2.651%        |
| 10        | 12.905      | 1733          | 1739        | 1749         | rBV      | 633737         | 925513        | 54.91%          | 12.198%       |
| 11        | 14.291      | 1969          | 1975        | 1985         | rVB2     | 182017         | 277148        | 16.44%          | 3.653%        |
| 12        | 15.795      | 2223          | 2231        | 2239         | rBV      | 657189         | 922466        | 54.73%          | 12.158%       |
| 13        | 17.047      | 2438          | 2444        | 2450         | rVB2     | 255386         | 366649        | 21.75%          | 4.832%        |
| 14        | 17.958      | 2594          | 2599        | 2607         | rBV2     | 70187          | 110287        | 6.54%           | 1.454%        |
| 15        | 19.244      | 2811          | 2818        | 2825         | rBV2     | 66714          | 119824        | 7.11%           | 1.579%        |
| 16        | 19.685      | 2887          | 2893        | 2899         | rBV      | 1334362        | 1685624       | 100.00%         | 22.217%       |
| 17        | 20.960      | 3107          | 3110        | 3117         | rBV9     | 34140          | 55832         | 3.31%           | 0.736%        |
| 18        | 21.242      | 3153          | 3158        | 3164         | rBV      | 372519         | 458770        | 27.22%          | 6.047%        |
| 19        | 23.481      | 3533          | 3539        | 3548         | rVB      | 241915         | 448437        | 26.60%          | 5.910%        |

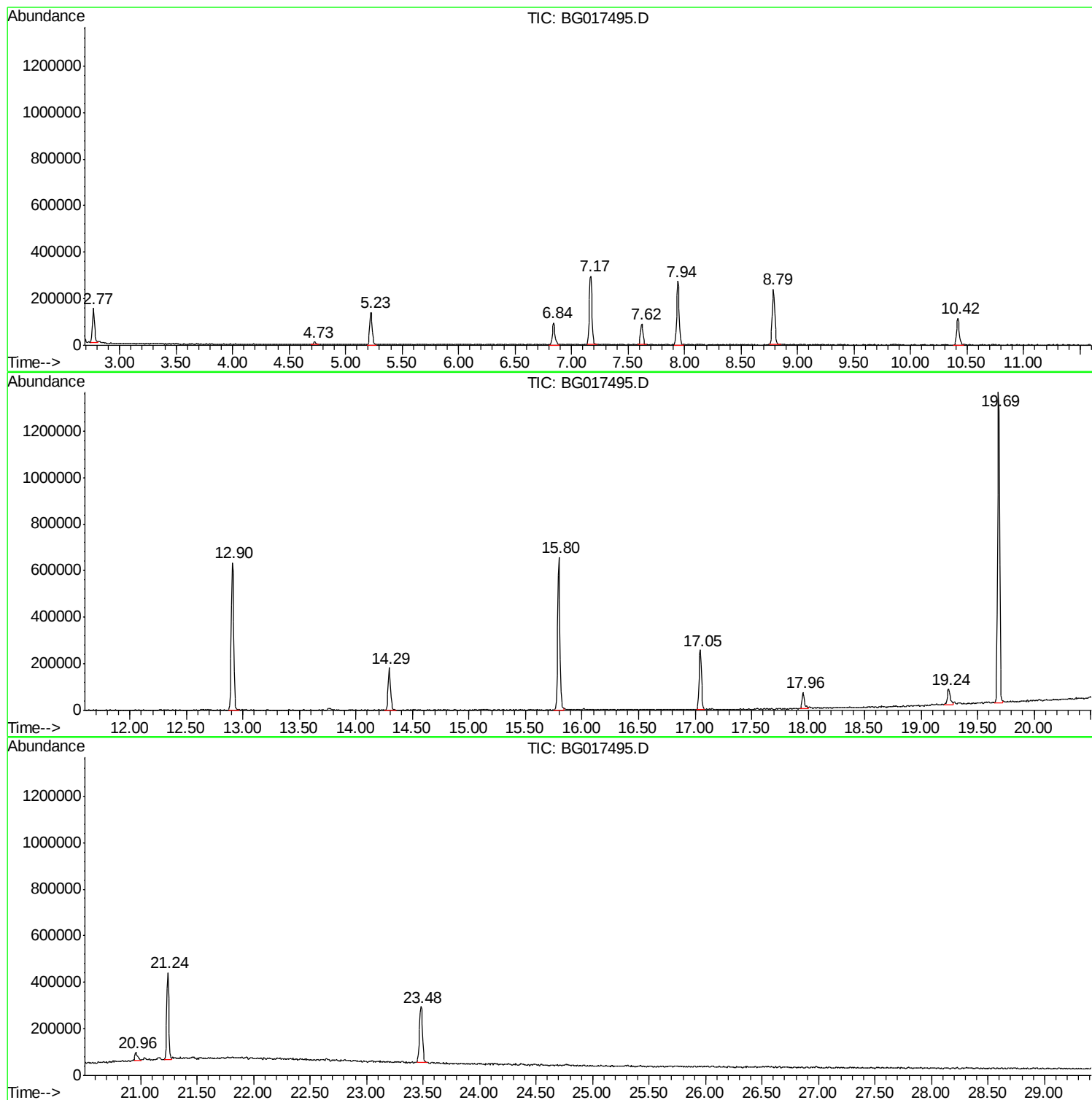
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Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG060515\  
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Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
MW-4

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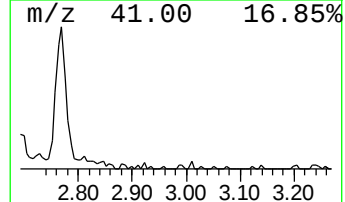
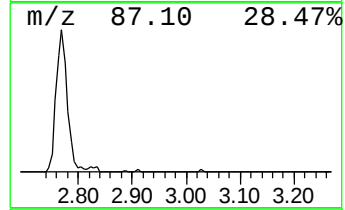
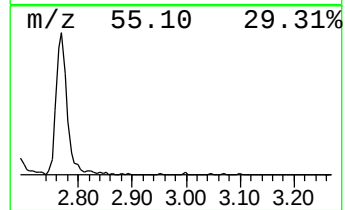
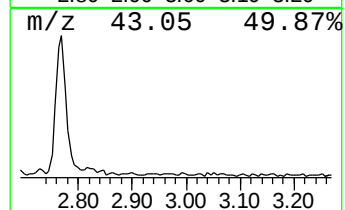
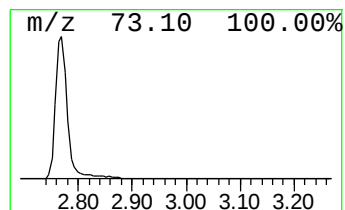
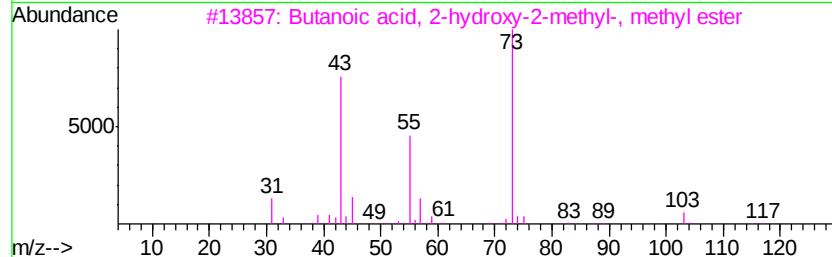
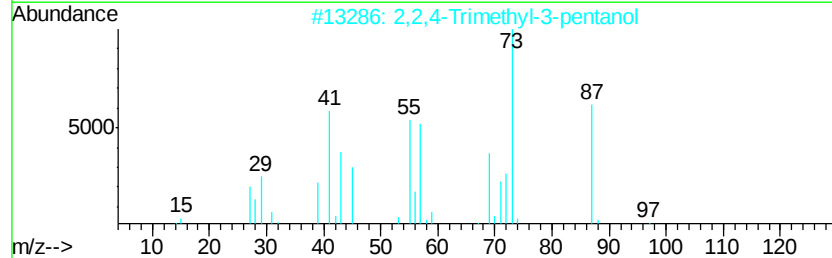
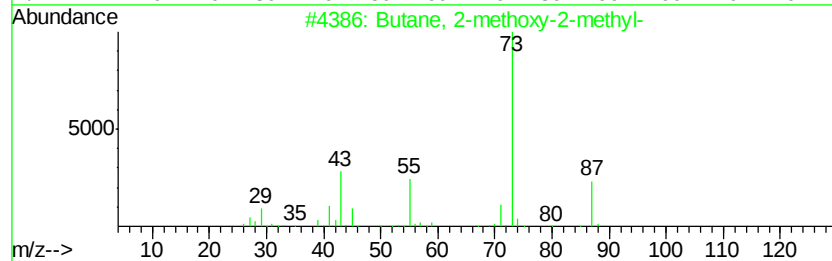
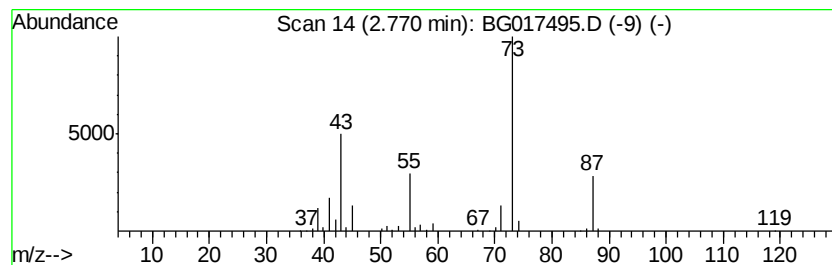
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 2.77 | 28.55 ng | 199579 | 1,4-Dichlorobenzene-d4 | 7.62 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl-          | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    | 2,2,4-Trimethyl-3-pentanol           | 130 | C8H18O  | 005162-48-1 | 39   |
| 3    |    | Butanoic acid, 2-hydroxy-2-methyl... | 132 | C6H12O3 | 032793-34-3 | 38   |
| 4    |    | 2-Methyl-5-hexen-3-ol                | 114 | C7H14O  | 032815-70-6 | 32   |
| 5    |    | Silane, tetramethyl-                 | 88  | C4H12Si | 000075-76-3 | 17   |



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

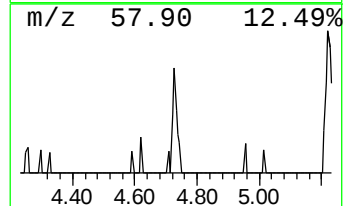
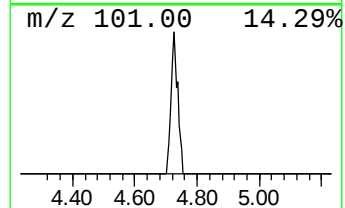
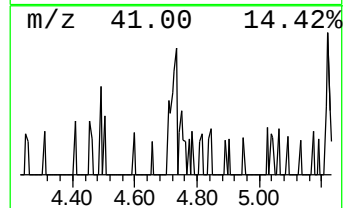
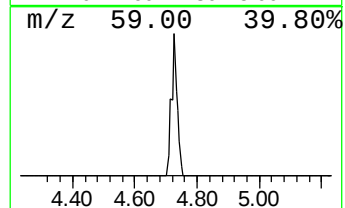
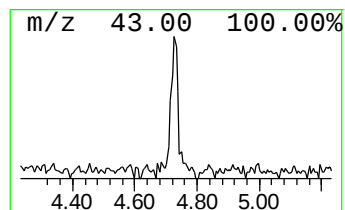
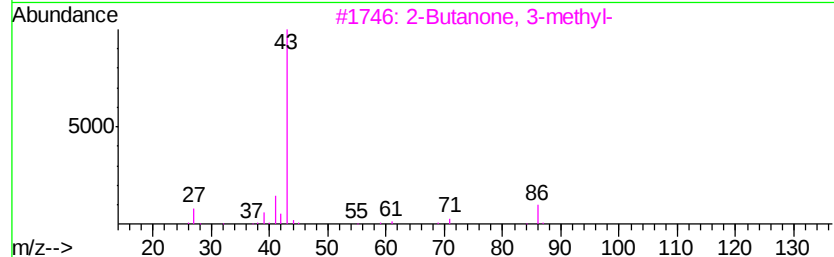
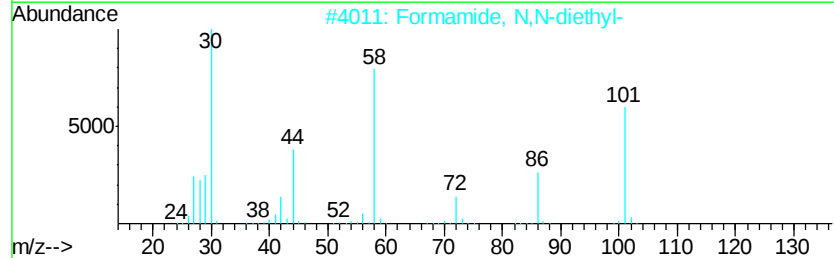
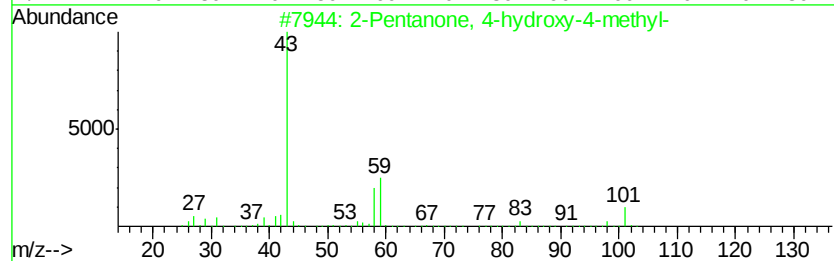
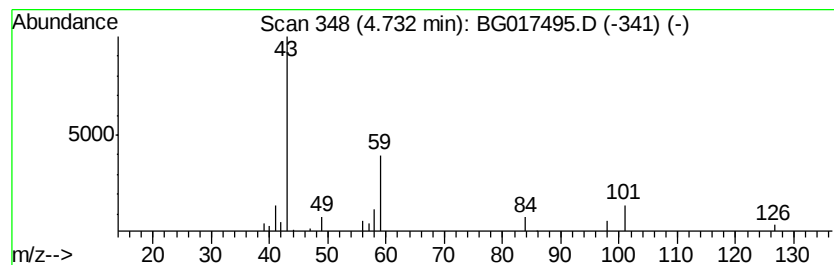
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 4.73 | 2.56 ng | 17905 | 1,4-Dichlorobenzene-d4 | 7.62 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 38   |
| 2    |    | Formamide, N,N-diethyl-          | 101 | C5H11NO | 000617-84-5 | 9    |
| 3    |    | 2-Butanone, 3-methyl-            | 86  | C5H10O  | 000563-80-4 | 9    |
| 4    |    | 1,3-Dioxane, 4,4-dimethyl-       | 116 | C6H12O2 | 000766-15-4 | 9    |
| 5    |    | Propane, 1,1-dipropoxy-          | 160 | C9H20O2 | 004744-11-0 | 9    |



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ALS Vial : 21 Sample Multiplier: 1

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ClientSampleId :  
MW-4

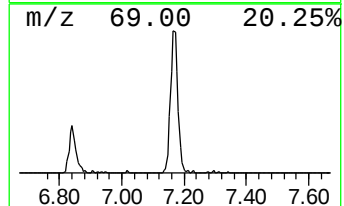
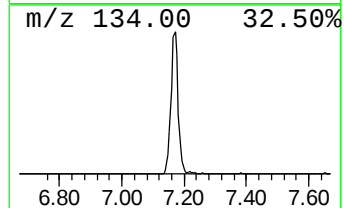
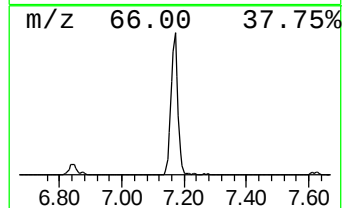
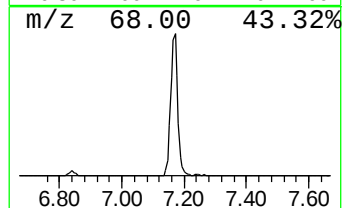
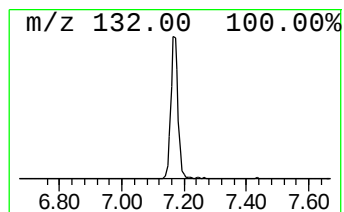
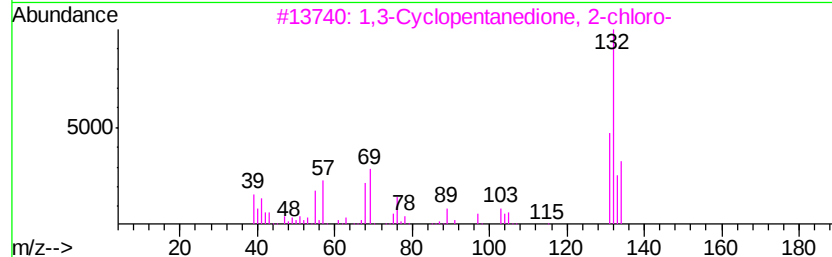
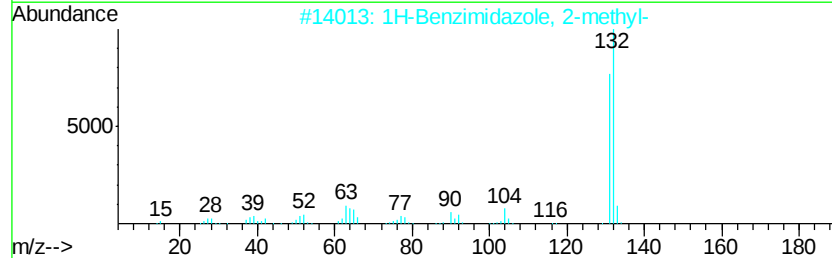
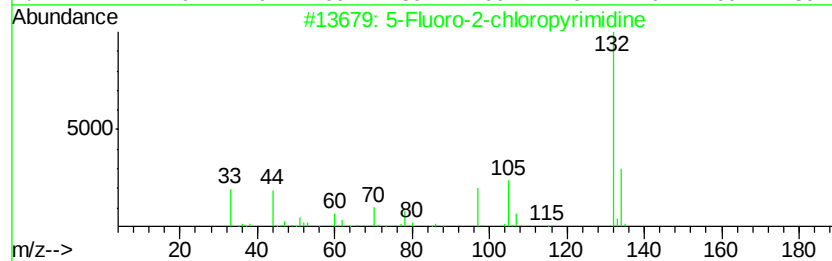
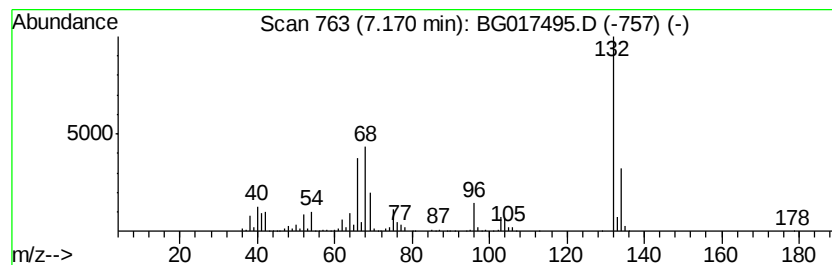
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 unknown7.17 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 7.17 | 66.84 ng | 467264 | 1,4-Dichlorobenzene-d4 | 7.62 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0 | 27   |
| 2    |    | 1H-Benzimidazole, 2-methyl-         | 132 | C8H8N2    | 000615-15-6 | 27   |
| 3    |    | 1,3-Cyclopentanedione, 2-chloro-    | 132 | C5H5ClO2  | 014203-19-1 | 23   |
| 4    |    | Imidazole, 4,5-dicyano-1-methyl-    | 132 | C6H4N4    | 019485-35-9 | 22   |
| 5    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6 | 12   |



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Misc :  
ALS Vial : 21 Sample Multiplier: 1

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BNA\_G  
ClientSampleId :  
MW-4

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG060315.M  
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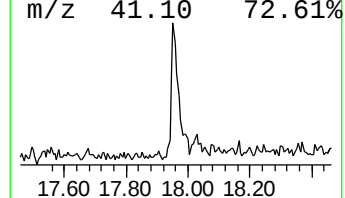
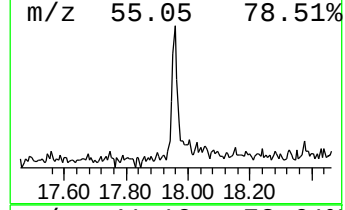
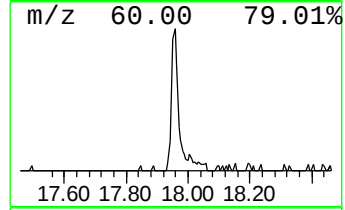
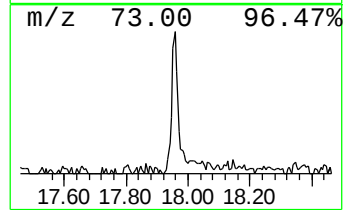
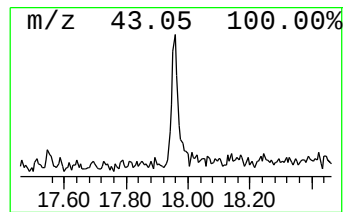
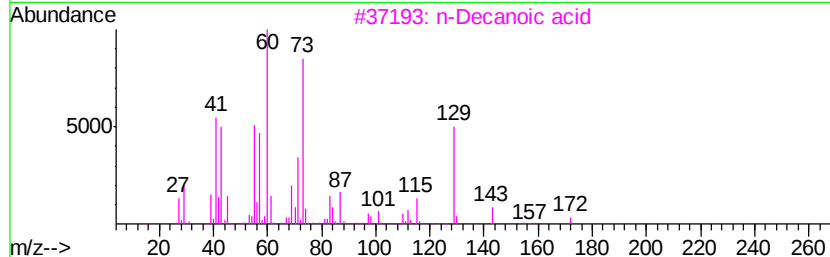
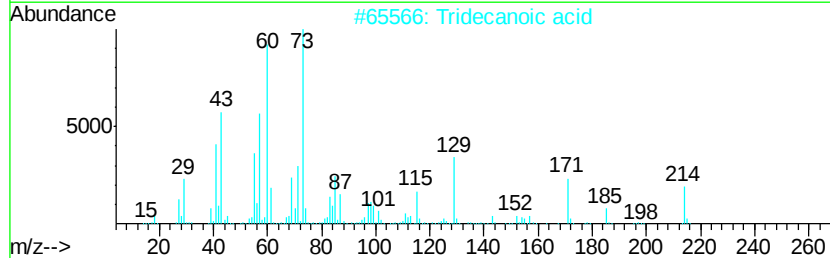
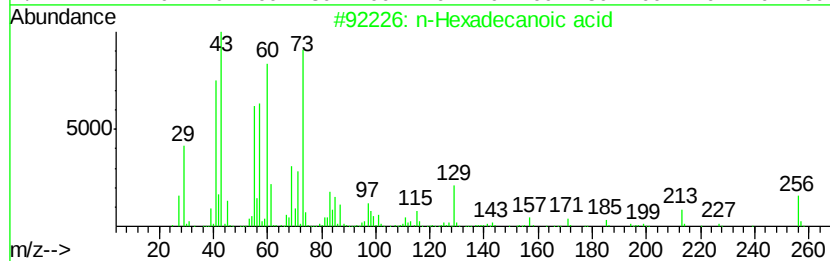
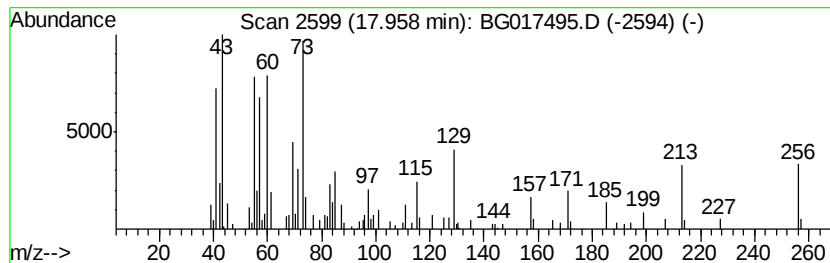
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 n-Hexadecanoic acid Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 17.96 | 6.02 ng | 110287 | Phenanthrene-d10 | 17.05 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|---------|---|-------------------------------------|-----|-----------|-------------|------|
| 1       |   | n-Hexadecanoic acid                 | 256 | C16H32O2  | 000057-10-3 | 89   |
| 2       |   | Tridecanoic acid                    | 214 | C13H26O2  | 000638-53-9 | 62   |
| 3       |   | n-Decanoic acid                     | 172 | C10H20O2  | 000334-48-5 | 46   |
| 4       |   | Ethanone, 1-(4,5-dihydro-2-thiaz... | 129 | C5H7NOS   | 029926-41-8 | 41   |
| 5       |   | D-Glucose, 6-O-.alpha.-D-galacto... | 342 | C12H22O11 | 000585-99-9 | 35   |



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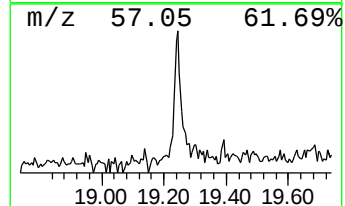
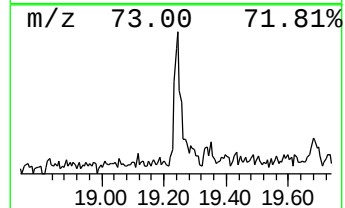
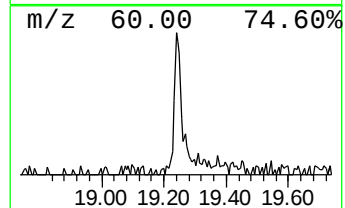
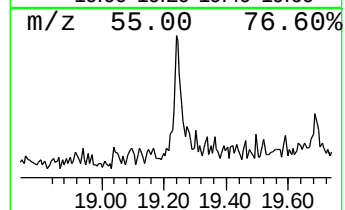
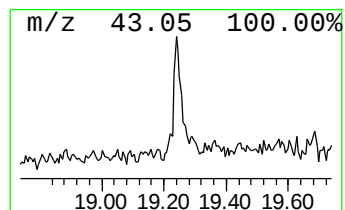
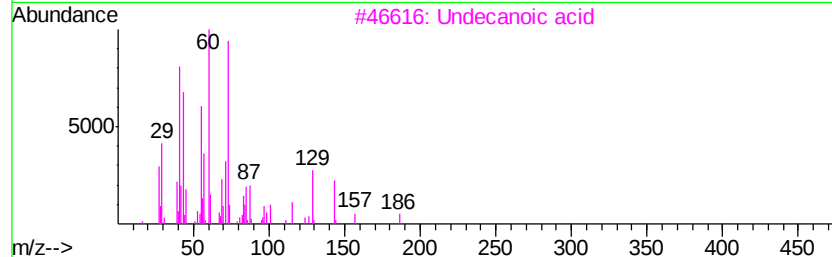
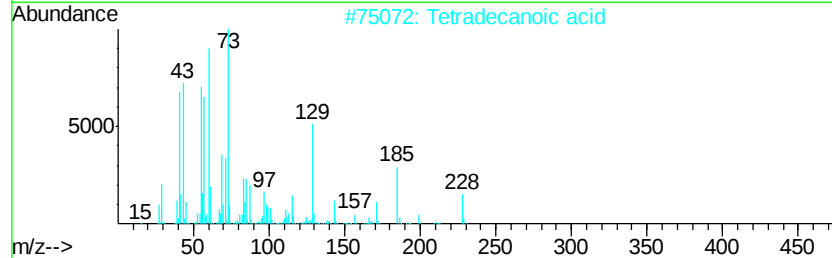
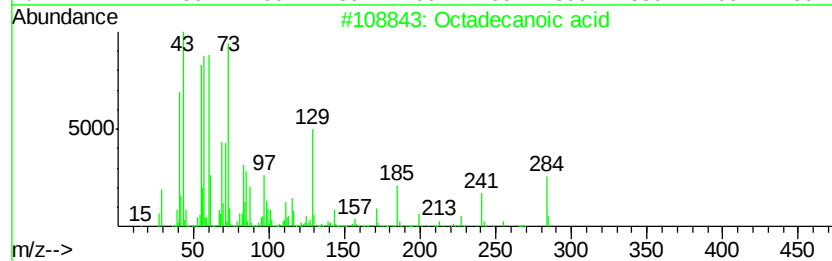
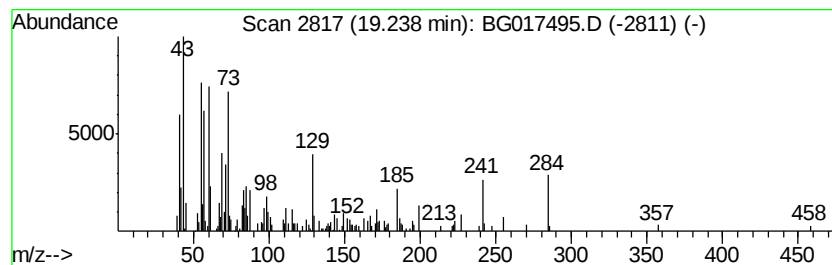
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\*\*\*\*\*  
Peak Number 6 Octadecanoic acid Concentration Rank 5

| R.T.      | EstConc            | Area   | Relative to ISTD |             | R.T.  |
|-----------|--------------------|--------|------------------|-------------|-------|
| 19.24     | 5.22 ng            | 119824 | Chrysene-d12     |             | 21.24 |
| Hit# of 5 | Tentative ID       | MW     | MolForm          | CAS#        | Qual  |
| 1         | Octadecanoic acid  | 284    | C18H36O2         | 000057-11-4 | 93    |
| 2         | Tetradecanoic acid | 228    | C14H28O2         | 000544-63-8 | 58    |
| 3         | Undecanoic acid    | 186    | C11H22O2         | 000112-37-8 | 50    |
| 4         | Pentadecanoic acid | 242    | C15H30O2         | 001002-84-2 | 49    |
| 5         | Tridecanoic acid   | 214    | C13H26O2         | 000638-53-9 | 49    |



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Misc :  
ALS Vial : 21 Sample Multiplier: 1

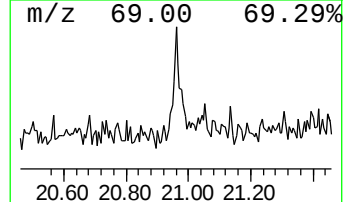
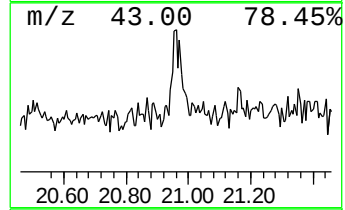
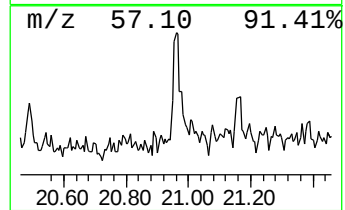
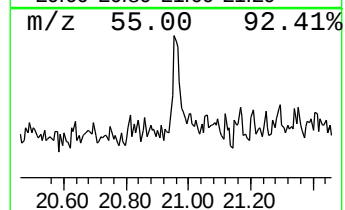
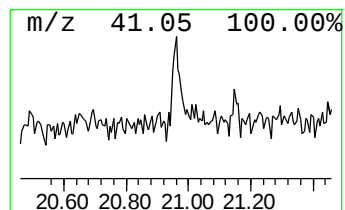
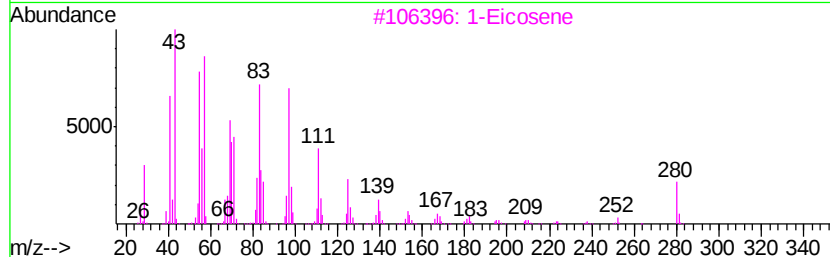
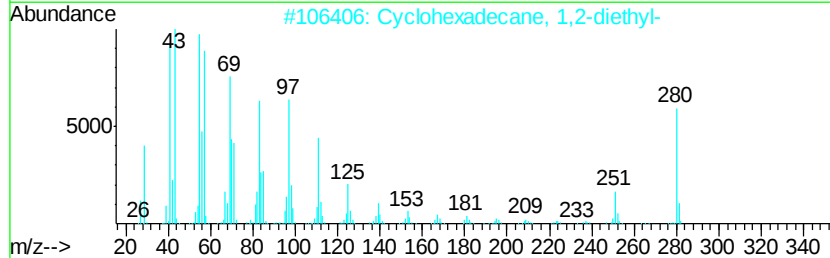
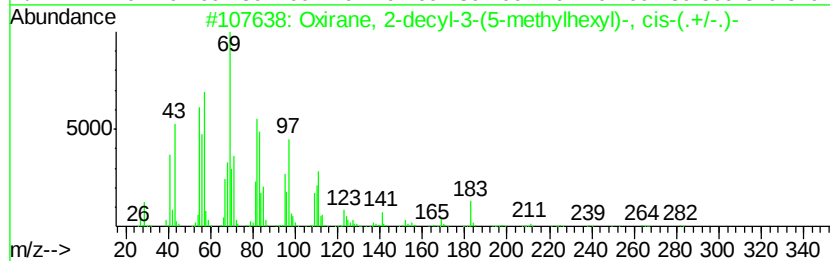
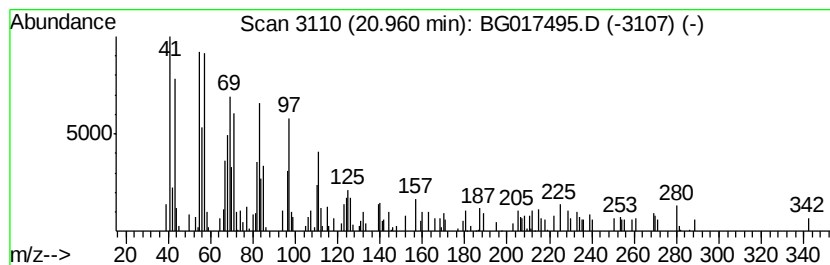
Instrument :  
BNA\_G  
ClientSampleId :  
MW-4

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 7 Oxirane, 2-decyl-3-(5-methy... Concentration Rank 7

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.         |      |      |
|---------|-------------------------------------|--------------|------------------|--------------|------|------|
| 20.96   | 2.43 ng                             | 55832        | Chrysene-d12     | 21.24        |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm      | CAS# | Qual |
| 1       | Oxirane, 2-decyl-3-(5-methylhexy... | 282          | C19H38O          | 057457-72-4  | 86   |      |
| 2       | Cyclohexadecane, 1,2-diethyl-       | 280          | C20H40           | 1000155-85-3 | 86   |      |
| 3       | 1-Eicosene                          | 280          | C20H40           | 003452-07-1  | 83   |      |
| 4       | Oxirane, 2-decyl-3-(5-methylhexy... | 282          | C19H38O          | 029804-22-6  | 78   |      |
| 5       | 2- Chloropropionic acid, octadec... | 360          | C21H41ClO2       | 088104-31-8  | 70   |      |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG060515\  
Data File : BG017495.D  
Acq On : 6 Jun 2015 6:09  
Operator : TP/IZ  
Sample : G2504-04  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
MW-4

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| Butane, 2-methoxy... | 2.77  | 28.6    | ng    | 199579   | 1                     | 7.62  | 139821 | 20.0 |
| 2-Pentanone, 4-hy... | 4.73  | 2.6     | ng    | 17905    | 1                     | 7.62  | 139821 | 20.0 |
| unknown7.17          | 7.17  | 66.8    | ng    | 467264   | 1                     | 7.62  | 139821 | 20.0 |
| n-Hexadecanoic acid  | 17.96 | 6.0     | ng    | 110287   | 4                     | 17.05 | 366649 | 20.0 |
| Octadecanoic acid    | 19.24 | 5.2     | ng    | 119824   | 5                     | 21.24 | 458770 | 20.0 |
| Oxirane, 2-decyl-... | 20.96 | 2.4     | ng    | 55832    | 5                     | 21.24 | 458770 | 20.0 |