

Data Path : U:\HPCHEM1\BNA F\DATA\BF101915\  
 Data File : BF082380.D  
 Acq On : 20 Oct 2015 4:05  
 Operator : UM/IZ  
 Sample : G4040-05  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 IM-MLA-DGA-03

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

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

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101015.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         | 4.297       | 186           | 189         | 196          | rBV      | 13695          | 23175         | 1.02%           | 0.115%        |
| 2         | 4.971       | 245           | 248         | 256          | rBV      | 864889         | 1193800       | 52.45%          | 5.925%        |
| 3         | 5.394       | 283           | 285         | 288          | rBV      | 1249069        | 1605321       | 70.53%          | 7.967%        |
| 4         | 5.794       | 319           | 320         | 323          | rVB      | 28215          | 28239         | 1.24%           | 0.140%        |
| 5         | 6.446       | 375           | 377         | 379          | rBV      | 1752248        | 1677303       | 73.69%          | 8.325%        |
| 6         | 6.572       | 386           | 388         | 390          | rBV      | 2061599        | 1832691       | 80.52%          | 9.096%        |
| 7         | 6.800       | 406           | 408         | 411          | rBV      | 560984         | 489754        | 21.52%          | 2.431%        |
| 8         | 6.960       | 419           | 422         | 424          | rBV      | 1583983        | 1521948       | 66.87%          | 7.554%        |
| 9         | 7.372       | 456           | 458         | 461          | rBV      | 1022443        | 999442        | 43.91%          | 4.960%        |
| 10        | 8.092       | 519           | 521         | 523          | rBV      | 764927         | 644253        | 28.31%          | 3.198%        |
| 11        | 9.178       | 613           | 616         | 618          | rBV      | 2059626        | 2276028       | 100.00%         | 11.296%       |
| 12        | 9.566       | 648           | 650         | 653          | rBV      | 303320         | 337298        | 14.82%          | 1.674%        |
| 13        | 9.783       | 665           | 669         | 671          | rVB      | 18904          | 28400         | 1.25%           | 0.141%        |
| 14        | 9.852       | 673           | 675         | 677          | rBV      | 906808         | 778095        | 34.19%          | 3.862%        |
| 15        | 10.183      | 701           | 704         | 706          | rBV      | 21129          | 25406         | 1.12%           | 0.126%        |
| 16        | 10.275      | 711           | 712         | 714          | rVV      | 45340          | 52159         | 2.29%           | 0.259%        |
| 17        | 10.503      | 728           | 732         | 735          | rBV      | 22271          | 38572         | 1.69%           | 0.191%        |
| 18        | 10.641      | 742           | 744         | 747          | rBV      | 1086338        | 1119646       | 49.19%          | 5.557%        |
| 19        | 10.755      | 752           | 754         | 759          | rVB      | 94543          | 127253        | 5.59%           | 0.632%        |
| 20        | 11.075      | 780           | 782         | 786          | rBV4     | 13632          | 24646         | 1.08%           | 0.122%        |
| 21        | 11.201      | 791           | 793         | 794          | rVV      | 95211          | 80786         | 3.55%           | 0.401%        |
| 22        | 11.235      | 794           | 796         | 798          | rVB      | 36310          | 44790         | 1.97%           | 0.222%        |
| 23        | 11.338      | 803           | 805         | 810          | rBV2     | 739373         | 829851        | 36.46%          | 4.119%        |
| 24        | 11.578      | 822           | 826         | 829          | rBV4     | 29371          | 60237         | 2.65%           | 0.299%        |
| 25        | 11.635      | 829           | 831         | 833          | rVB      | 35960          | 49885         | 2.19%           | 0.248%        |
| 26        | 11.875      | 848           | 852         | 854          | rVV3     | 76895          | 116467        | 5.12%           | 0.578%        |
| 27        | 11.955      | 857           | 859         | 862          | rVV2     | 28399          | 48766         | 2.14%           | 0.242%        |
| 28        | 12.035      | 865           | 866         | 868          | rVB      | 30858          | 25060         | 1.10%           | 0.124%        |
| 29        | 12.115      | 872           | 873         | 877          | rBV      | 22724          | 37475         | 1.65%           | 0.186%        |
| 30        | 12.424      | 899           | 900         | 904          | rVB2     | 22929          | 30062         | 1.32%           | 0.149%        |
| 31        | 12.549      | 910           | 911         | 914          | rBV      | 99507          | 122804        | 5.40%           | 0.609%        |
| 32        | 12.652      | 918           | 920         | 922          | rBV3     | 18404          | 37764         | 1.66%           | 0.187%        |
| 33        | 12.778      | 929           | 931         | 934          | rBV      | 86065          | 142327        | 6.25%           | 0.706%        |
| 34        | 12.938      | 942           | 945         | 947          | rBV      | 1308166        | 1891912       | 83.12%          | 9.390%        |

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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\_F\METHODS\8270-BF101015.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |          |        |        |        |        |
|----|--------|------|------|----------|--------|--------|--------|--------|
| 35 | 13.155 | 962  | 964  | 965 rBV  | 21409  | 28300  | 1.24%  | 0.140% |
| 36 | 13.281 | 973  | 975  | 977 rBV  | 30400  | 43723  | 1.92%  | 0.217% |
| 37 | 13.852 | 1023 | 1025 | 1029 rVB | 66379  | 133732 | 5.88%  | 0.664% |
| 38 | 14.001 | 1035 | 1038 | 1045 rBV | 584206 | 776395 | 34.11% | 3.853% |
| 39 | 15.498 | 1166 | 1169 | 1174 rVB | 350673 | 610488 | 26.82% | 3.030% |
| 40 | 16.150 | 1224 | 1226 | 1236 rVB | 85638  | 214354 | 9.42%  | 1.064% |

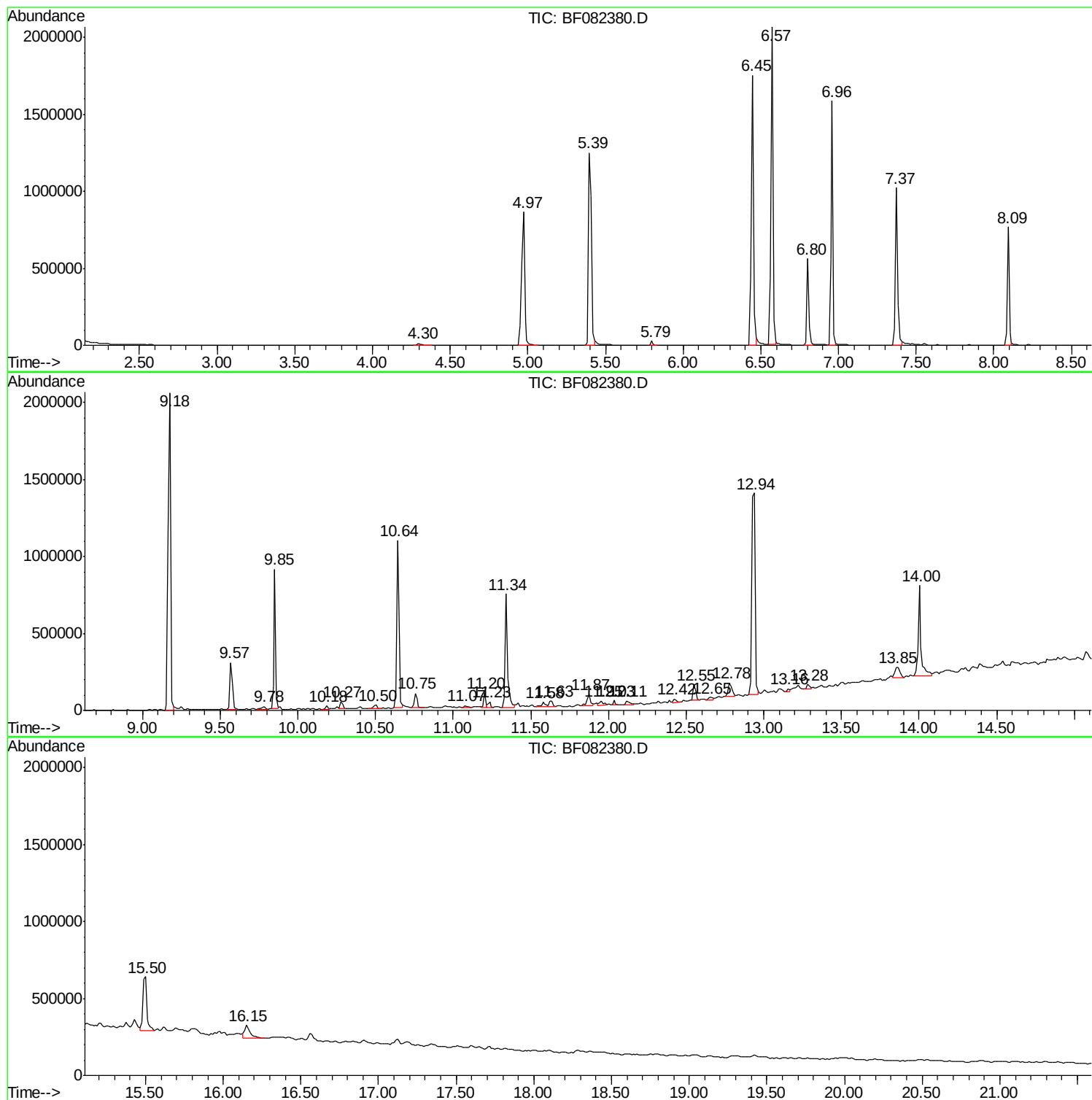
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

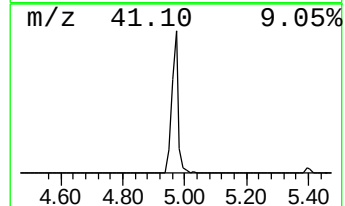
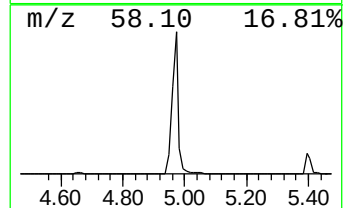
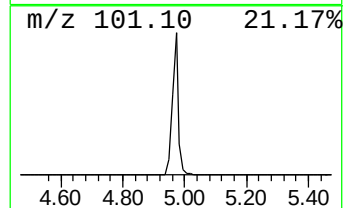
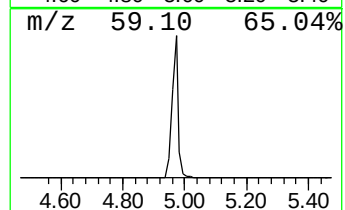
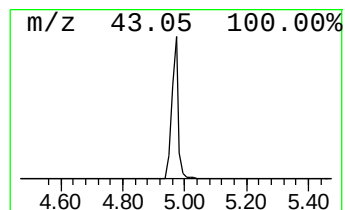
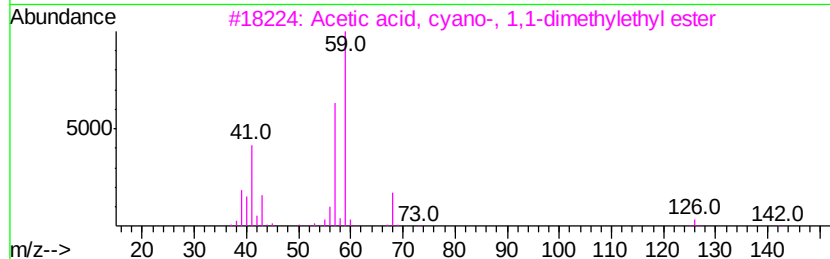
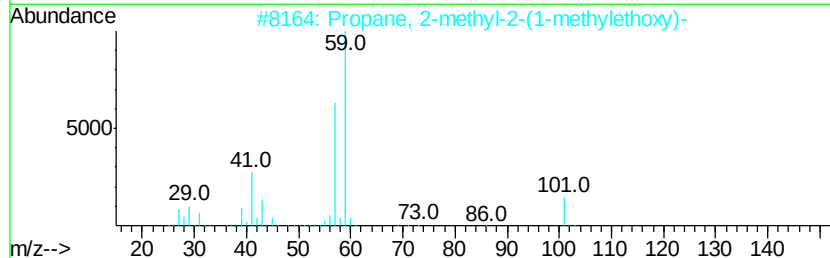
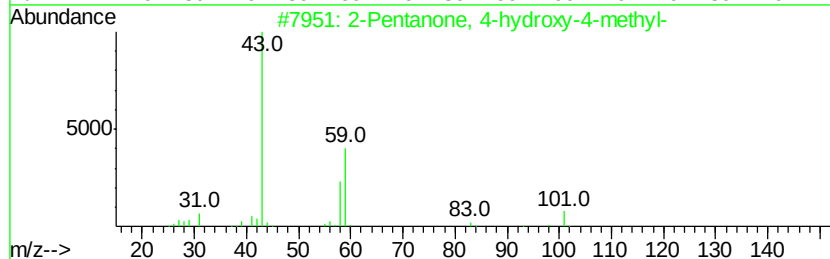
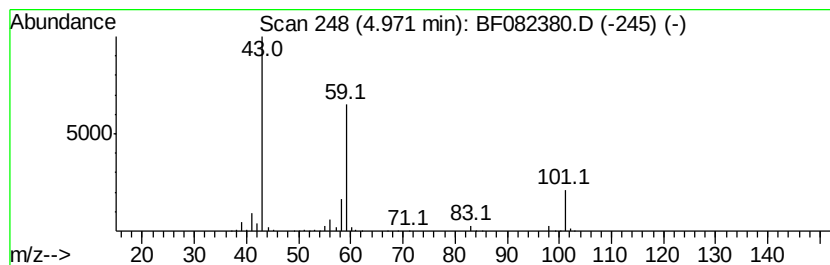
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 4.97 | 48.75 ng | 1193800 | 1,4-Dichlorobenzene-d4 | 6.80 |

| Hit# | of | Tentative ID                          | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-      | 116 | C6H12O2  | 000123-42-2 | 56   |
| 2    |    | Propane, 2-methyl-2-(1-methylethoxy)- | 116 | C7H16O   | 017348-59-3 | 42   |
| 3    |    | Acetic acid, cyano-, 1,1-dimethyl-    | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 4    |    | Morpholine, 4-methyl-                 | 101 | C5H11NO  | 000109-02-4 | 9    |
| 5    |    | Acetone                               | 58  | C3H6O    | 000067-64-1 | 9    |



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BNA\_F  
ClientSampleId :  
IM-MLA-DGA-03

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

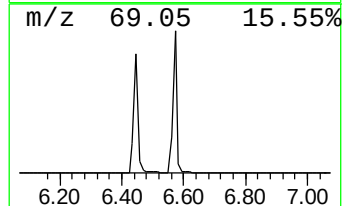
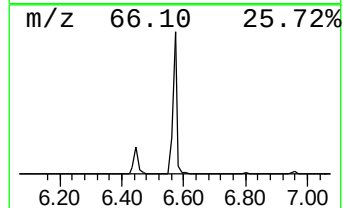
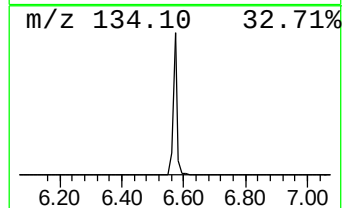
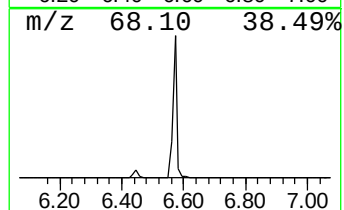
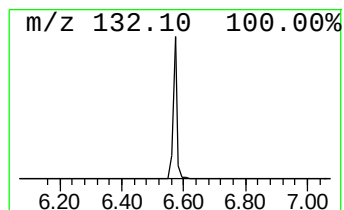
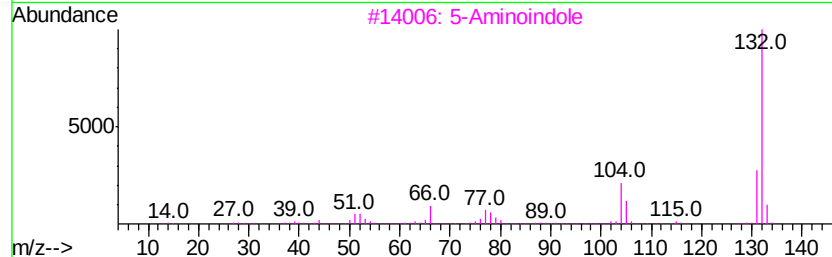
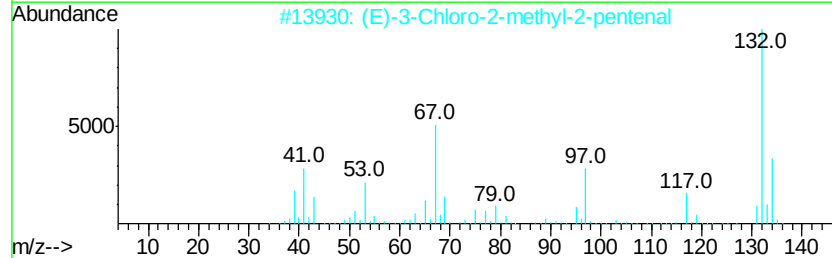
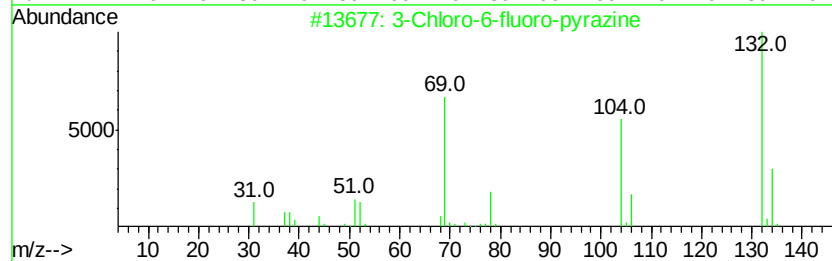
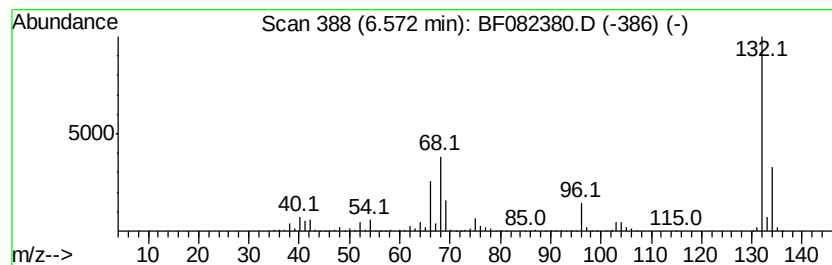
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.57 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.57 | 74.84 ng | 1832690 | 1,4-Dichlorobenzene-d4 | 6.80 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 12   |
| 3    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |



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Instrument :  
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IM-MLA-DGA-03

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

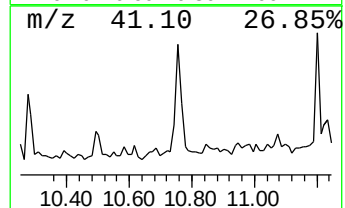
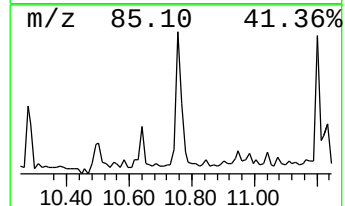
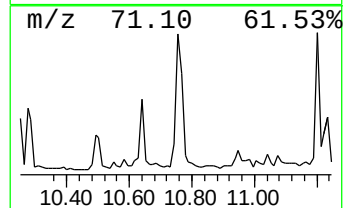
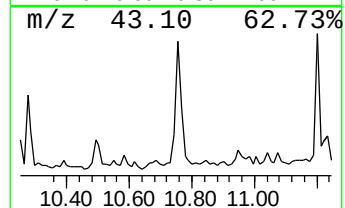
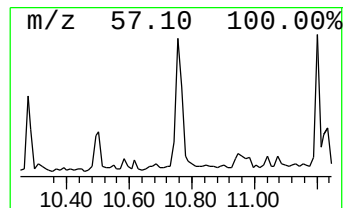
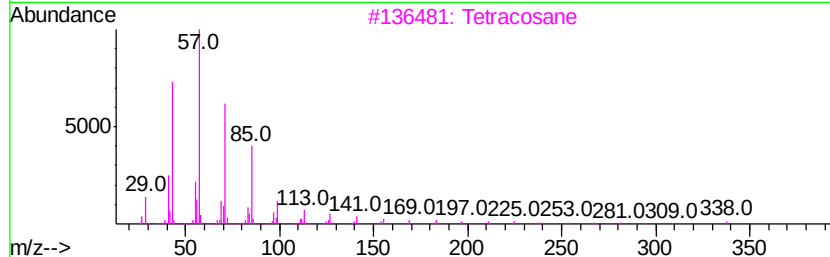
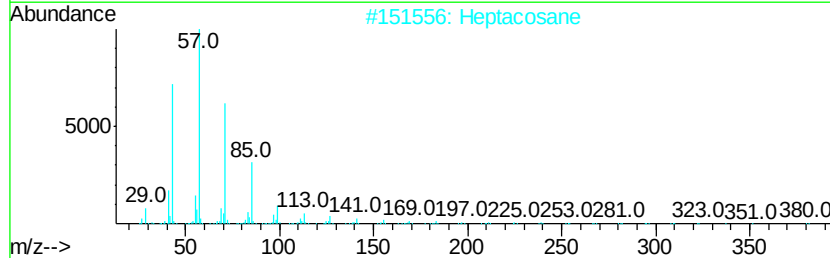
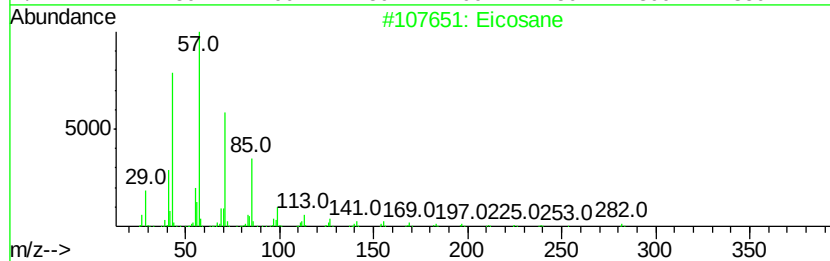
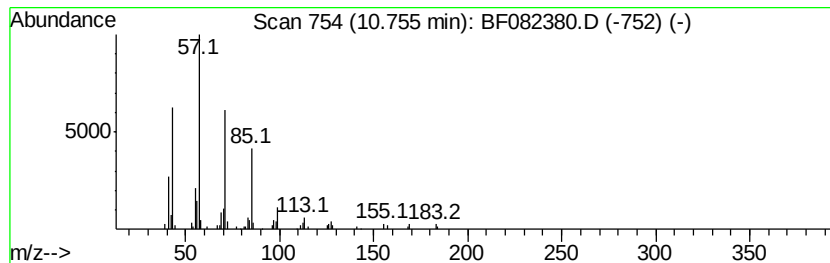
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Eicosane Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.75 | 3.07 ng | 127253 | Phenanthrene-d10 | 11.34 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane     | 282 | C20H42  | 000112-95-8 | 91   |
| 2    |    | Heptacosane  | 380 | C27H56  | 000593-49-7 | 91   |
| 3    |    | Tetracosane  | 338 | C24H50  | 000646-31-1 | 91   |
| 4    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 90   |
| 5    |    | Heptadecane  | 240 | C17H36  | 000629-78-7 | 90   |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

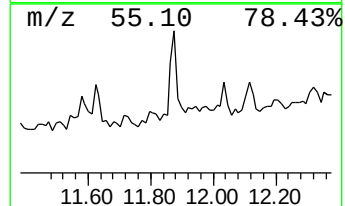
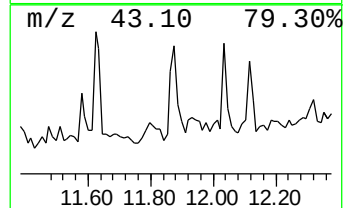
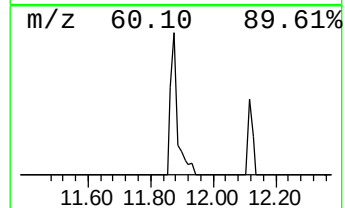
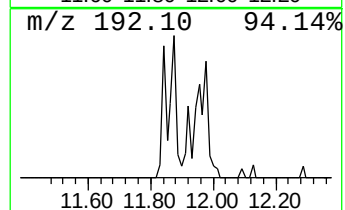
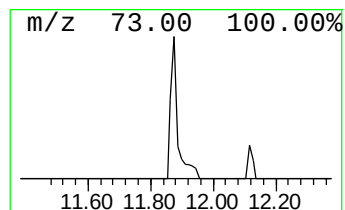
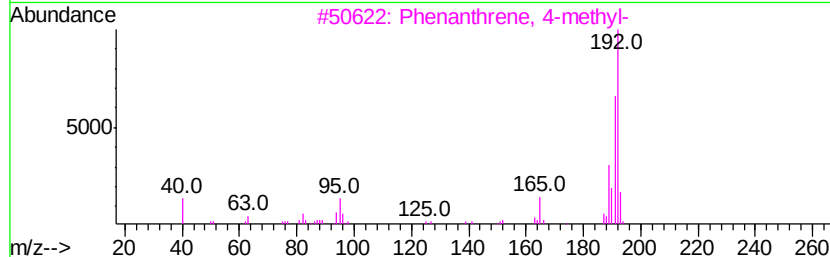
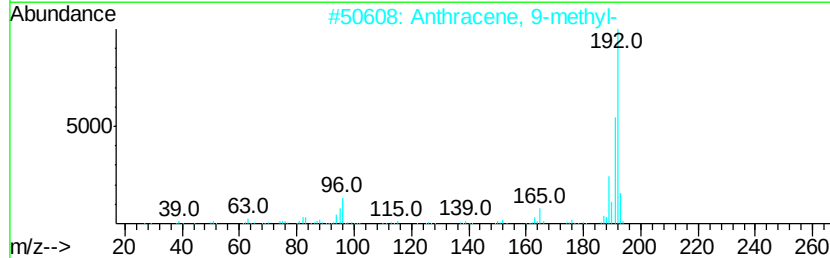
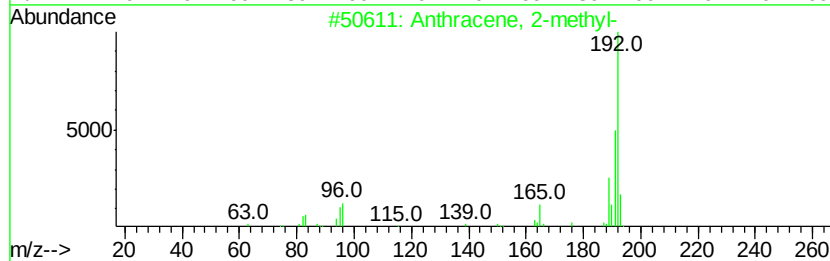
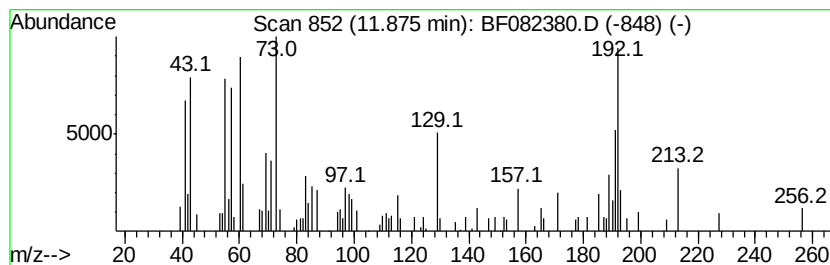
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Anthracene, 2-methyl- Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.88 | 2.81 ng | 116467 | Phenanthrene-d10 | 11.34 |

| Hit# of | 5 | Tentative ID            | MW  | MolForm  | CAS#        | Qual |
|---------|---|-------------------------|-----|----------|-------------|------|
| 1       |   | Anthracene, 2-methyl-   | 192 | C15H12   | 000613-12-7 | 43   |
| 2       |   | Anthracene, 9-methyl-   | 192 | C15H12   | 000779-02-2 | 38   |
| 3       |   | Phenanthrene, 4-methyl- | 192 | C15H12   | 000832-64-4 | 38   |
| 4       |   | Phenanthrene, 3-methyl- | 192 | C15H12   | 000832-71-3 | 30   |
| 5       |   | Tetradecanoic acid      | 228 | C14H28O2 | 000544-63-8 | 30   |



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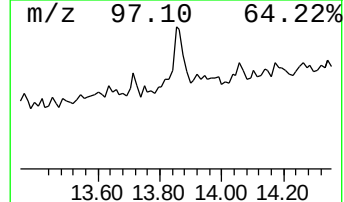
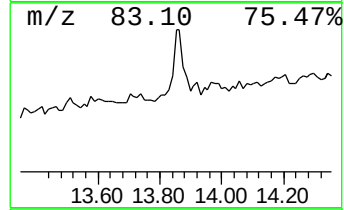
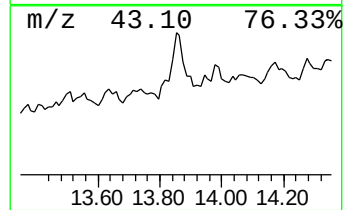
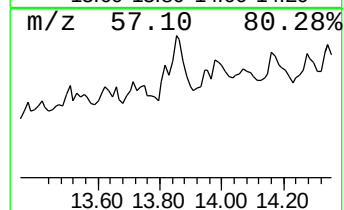
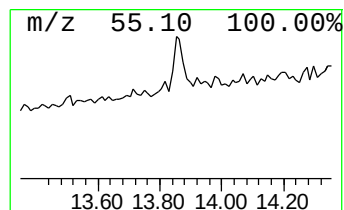
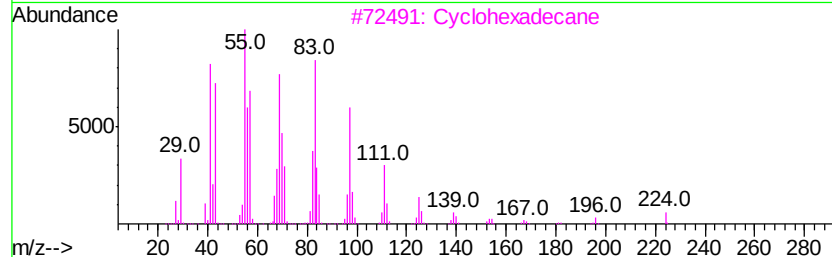
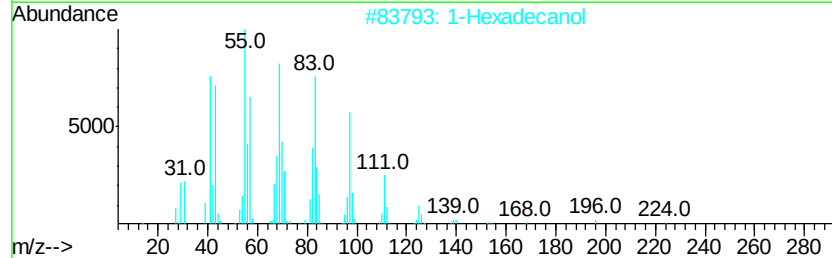
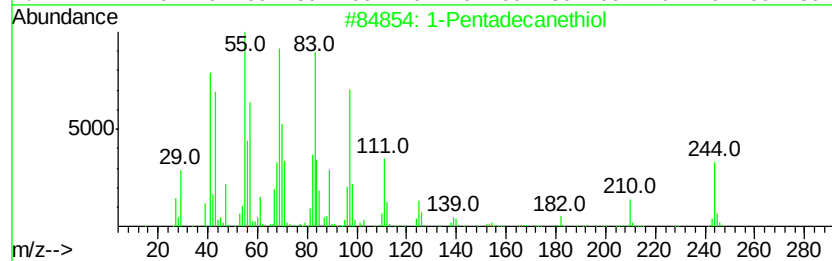
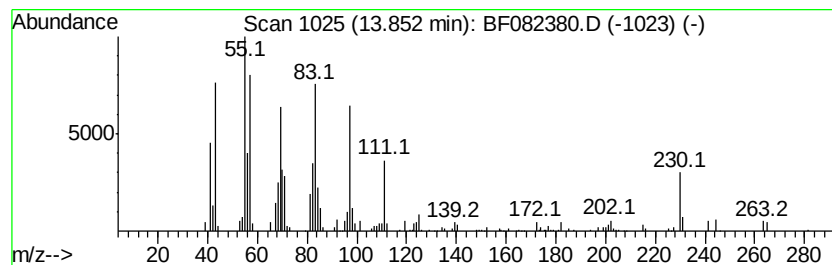
Instrument :  
BNA\_F  
ClientSampleId :  
IM-MLA-DGA-03

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.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 6 1-Pentadecanethiol Concentration Rank 5

| R.T.      | EstConc                             | Area   | Relative to ISTD |             | R.T.  |
|-----------|-------------------------------------|--------|------------------|-------------|-------|
| 13.85     | 3.44 ng                             | 133732 | Chrysene-d12     |             | 14.00 |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual  |
| 1         | 1-Pentadecanethiol                  | 244    | C15H32S          | 025276-70-4 | 90    |
| 2         | 1-Hexadecanol                       | 242    | C16H34O          | 036653-82-4 | 74    |
| 3         | Cyclohexadecane                     | 224    | C16H32           | 000295-65-8 | 62    |
| 4         | Cyclopropane, 1-methyl-1-(2-meth... | 238    | C17H34           | 041977-41-7 | 52    |
| 5         | Cyclopentane, 1-ethyl-3-methyl-     | 112    | C8H16            | 003726-47-4 | 49    |





Data Path : U:\HPCHEM1\BNA F\DATA\BF101915\  
Data File : BF082380.D  
Acq On : 20 Oct 2015 4:05  
Operator : UM/IZ  
Sample : G4040-05  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

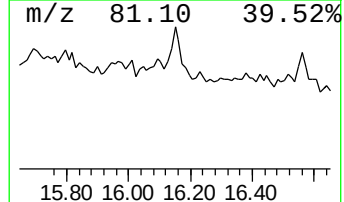
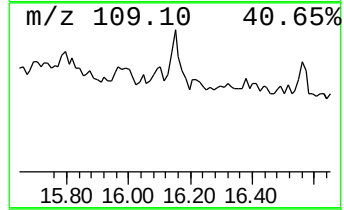
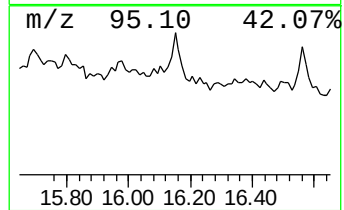
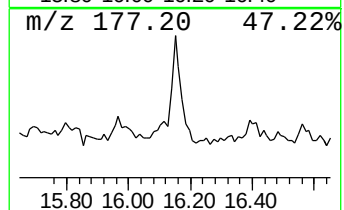
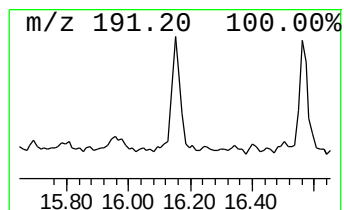
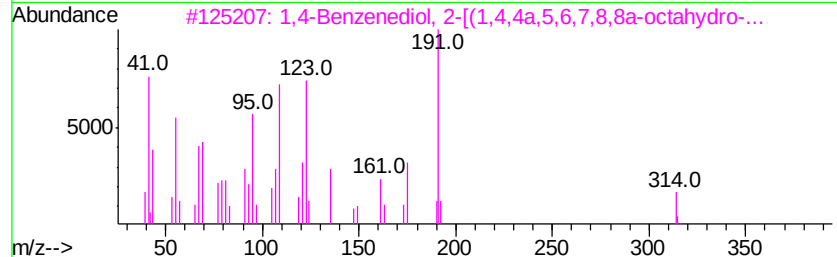
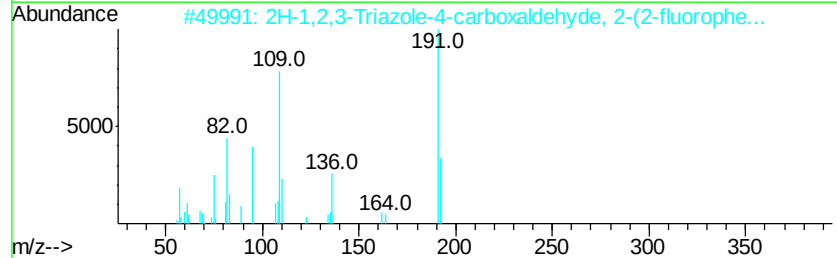
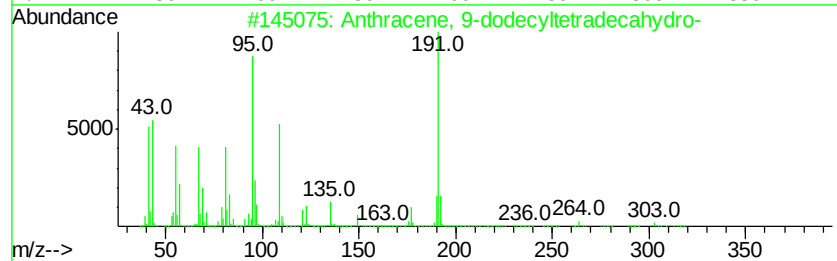
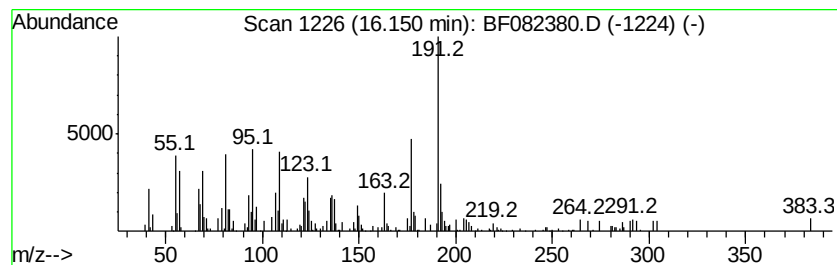
Instrument :  
BNA\_F  
ClientSampleId :  
IM-MLA-DGA-03

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.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 unknown16.15 Concentration Rank 4

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 16.15     | 7.02 ng                             | 214354 | Perylene-d12     | 15.50        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Anthracene, 9-dodecyltetradecahy... | 360    | C26H48           | 055401-75-7  | 38   |
| 2         | 2H-1,2,3-Triazole-4-carboxaldehy... | 191    | C9H6FN3O         | 051306-43-5  | 37   |
| 3         | 1,4-Benzenediol, 2-[(1,4,4a,5,6,... | 314    | C21H30O2         | 039707-55-6  | 32   |
| 4         | 1-Cyclohexene, 1,3,3-trimethyl-2... | 206    | C14H22O          | 1000197-08-4 | 32   |
| 5         | 1-Penten-3-one, 1-(2,6,6-trimeth... | 206    | C14H22O          | 000127-43-5  | 27   |



Data Path : U:\HPCHEM1\BNA\_F\DATA\BF101915\  
Data File : BF082380.D  
Acq On : 20 Oct 2015 4:05  
Operator : UM/IZ  
Sample : G4040-05  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
IM-MLA-DGA-03

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | ---Internal Standard--- |       |        |      |
|----------------------|-------|---------|-------|----------|-------------------------|-------|--------|------|
|                      |       |         |       |          | #                       | RT    | Resp   | Conc |
| 2-Pentanone, 4-hy... | 4.97  | 48.8    | ng    | 1193800  | 1                       | 6.80  | 489754 | 20.0 |
| unknown6.57          | 6.57  | 74.8    | ng    | 1832690  | 1                       | 6.80  | 489754 | 20.0 |
| Eicosane             | 10.75 | 3.1     | ng    | 127253   | 4                       | 11.34 | 829851 | 20.0 |
| Anthracene, 2-met... | 11.88 | 2.8     | ng    | 116467   | 4                       | 11.34 | 829851 | 20.0 |
| 1-Pentadecanethiol   | 13.85 | 3.4     | ng    | 133732   | 5                       | 14.00 | 776395 | 20.0 |
| unknown16.15         | 16.15 | 7.0     | ng    | 214354   | 6                       | 15.50 | 610488 | 20.0 |