

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101215\  
 Data File : BF082222.D  
 Acq On : 12 Oct 2015 16:01  
 Operator : UM/IZ  
 Sample : G3990-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TE-PMW(2-15)

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 1 % 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         | 2.274       | 10            | 12          | 28           | rVB      | 19837          | 68218         | 2.46%           | 0.385%        |
| 2         | 4.994       | 248           | 250         | 260          | rVB      | 349898         | 407738        | 14.73%          | 2.298%        |
| 3         | 5.417       | 285           | 287         | 290          | rBV      | 889158         | 869530        | 31.41%          | 4.902%        |
| 4         | 5.829       | 321           | 323         | 326          | rBV      | 31847          | 27787         | 1.00%           | 0.157%        |
| 5         | 6.457       | 376           | 378         | 381          | rBV      | 458349         | 537217        | 19.41%          | 3.028%        |
| 6         | 6.594       | 388           | 390         | 393          | rBV      | 1544425        | 1597300       | 57.70%          | 9.004%        |
| 7         | 6.834       | 408           | 411         | 413          | rBV      | 309455         | 361077        | 13.04%          | 2.035%        |
| 8         | 6.983       | 422           | 424         | 427          | rBV      | 1491223        | 1569739       | 56.71%          | 8.849%        |
| 9         | 7.406       | 458           | 461         | 463          | rVB      | 1026875        | 1220633       | 44.10%          | 6.881%        |
| 10        | 8.114       | 521           | 523         | 526          | rBV      | 507206         | 498247        | 18.00%          | 2.809%        |
| 11        | 9.200       | 615           | 618         | 620          | rBV      | 2809914        | 2740454       | 99.00%          | 15.448%       |
| 12        | 9.589       | 650           | 652         | 654          | rBV      | 131882         | 130303        | 4.71%           | 0.735%        |
| 13        | 9.875       | 674           | 677         | 679          | rBV      | 717945         | 628980        | 22.72%          | 3.546%        |
| 14        | 10.298      | 712           | 714         | 716          | rVB      | 126774         | 117699        | 4.25%           | 0.663%        |
| 15        | 10.663      | 743           | 746         | 749          | rBV2     | 1405378        | 1697408       | 61.32%          | 9.568%        |
| 16        | 10.778      | 754           | 756         | 758          | rVB      | 25018          | 31370         | 1.13%           | 0.177%        |
| 17        | 11.223      | 793           | 795         | 796          | rBV      | 42678          | 38384         | 1.39%           | 0.216%        |
| 18        | 11.361      | 805           | 807         | 810          | rBV      | 725507         | 655268        | 23.67%          | 3.694%        |
| 19        | 11.898      | 851           | 854         | 856          | rBV      | 189835         | 282014        | 10.19%          | 1.590%        |
| 20        | 12.675      | 920           | 922         | 928          | rBV      | 159118         | 195020        | 7.05%           | 1.099%        |
| 21        | 12.949      | 943           | 946         | 949          | rBV      | 2329984        | 2768108       | 100.00%         | 15.604%       |
| 22        | 13.841      | 1022          | 1024        | 1030         | rBV      | 36834          | 60607         | 2.19%           | 0.342%        |
| 23        | 14.001      | 1035          | 1038        | 1046         | rVV      | 700295         | 704935        | 25.47%          | 3.974%        |
| 24        | 15.441      | 1160          | 1164        | 1169         | rBV      | 326729         | 531711        | 19.21%          | 2.997%        |

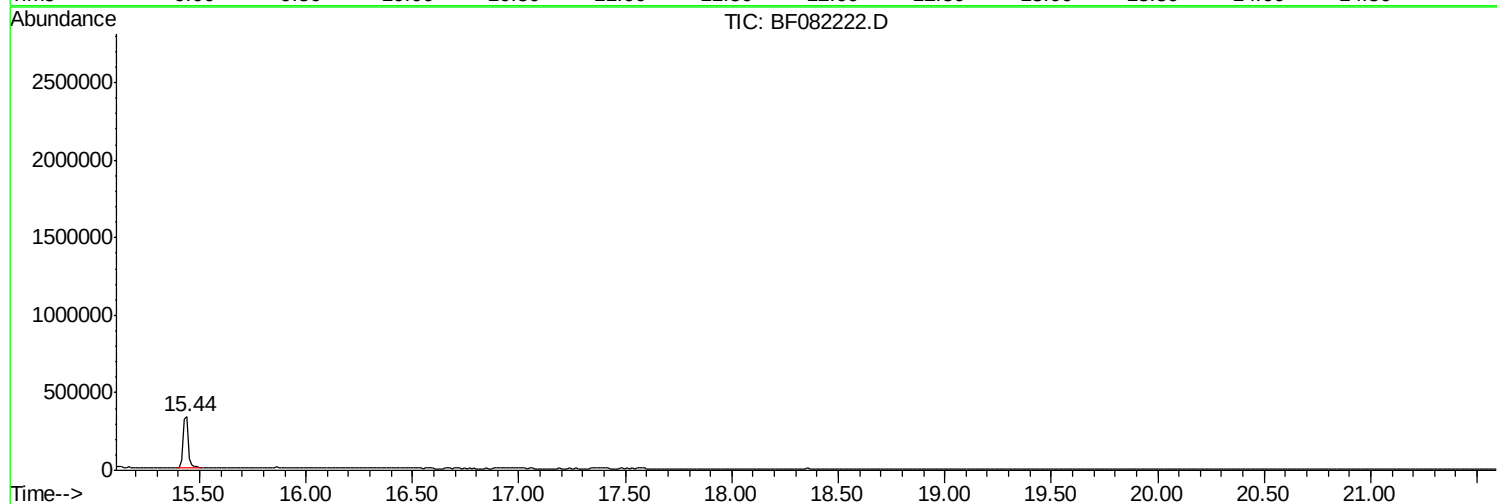
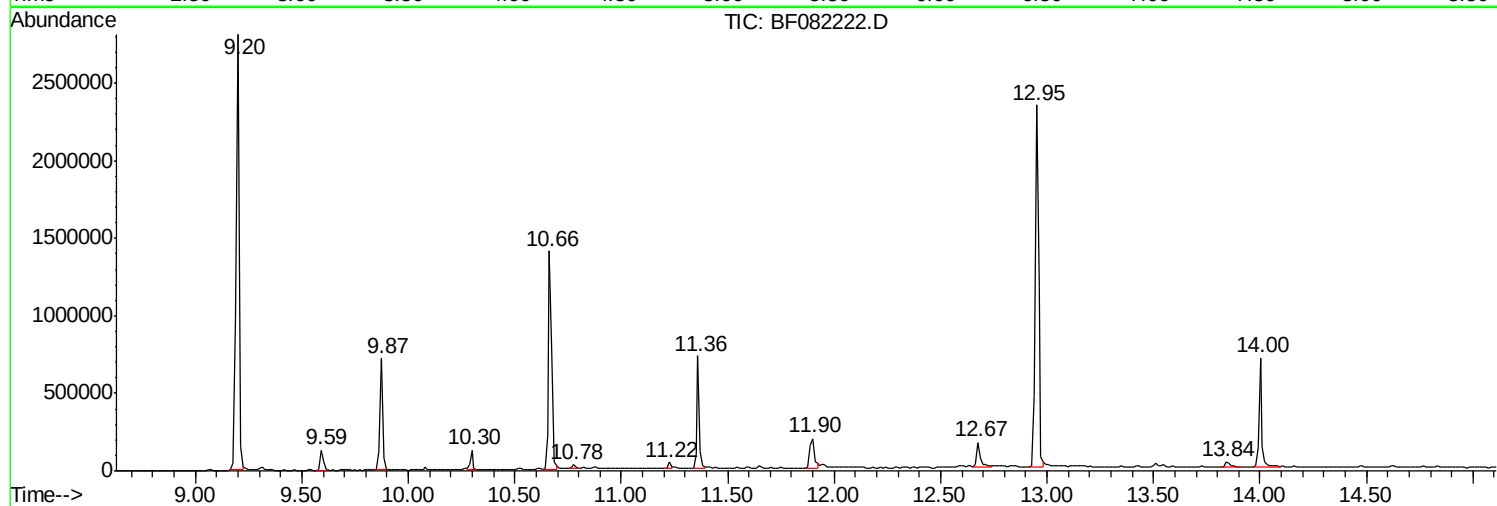
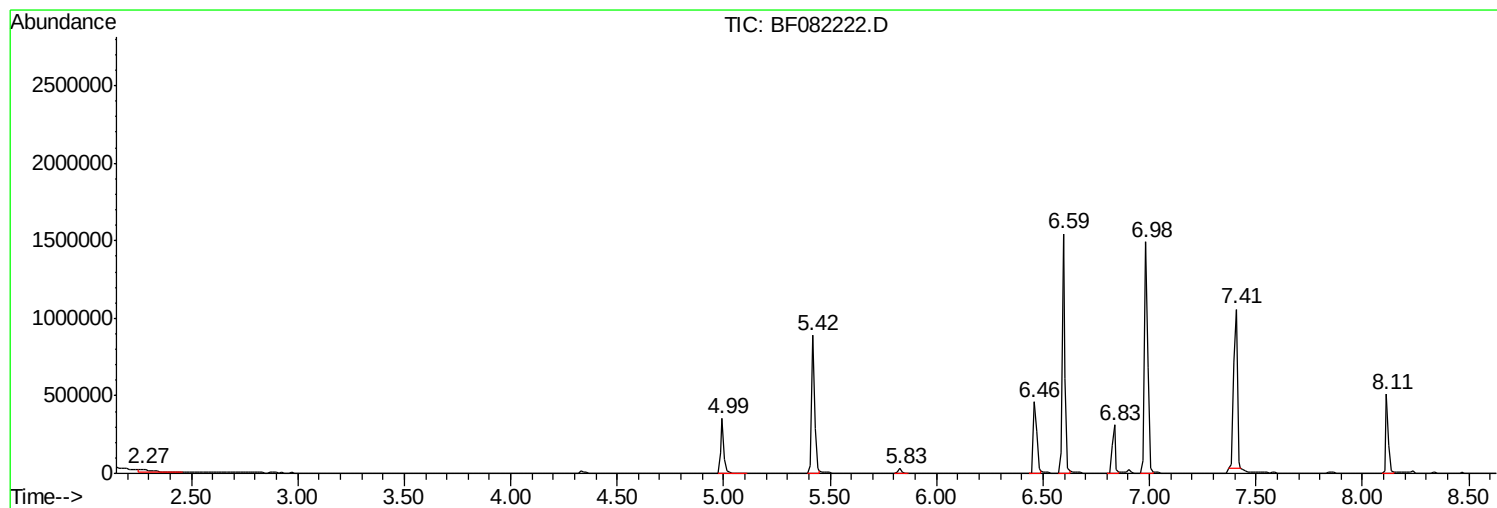
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TE-PMW(2-15)

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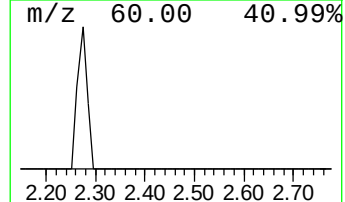
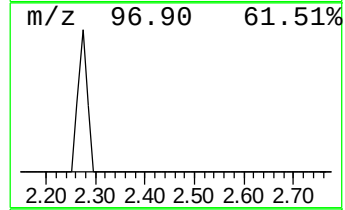
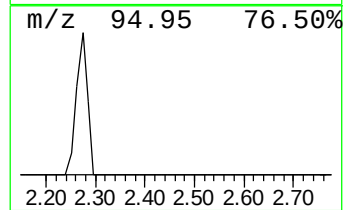
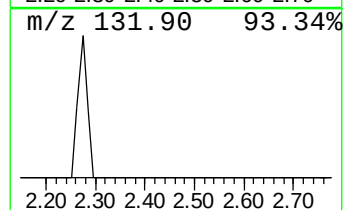
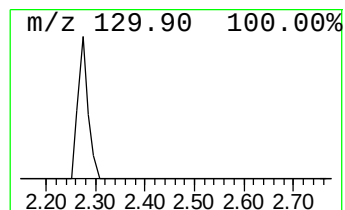
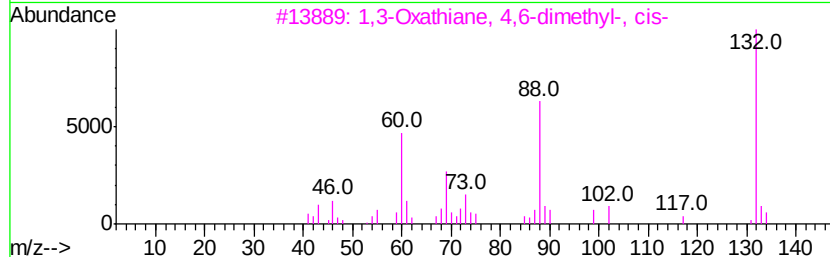
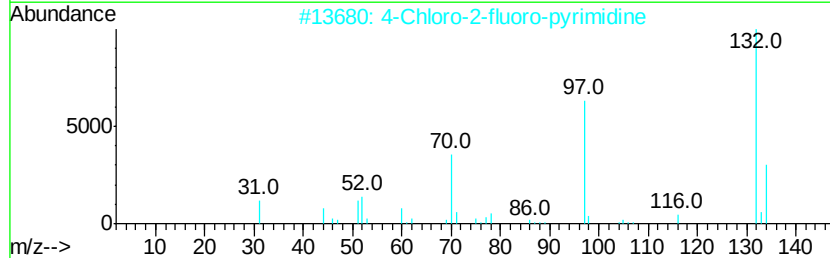
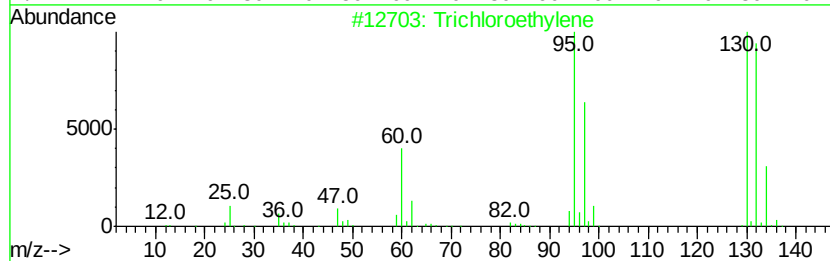
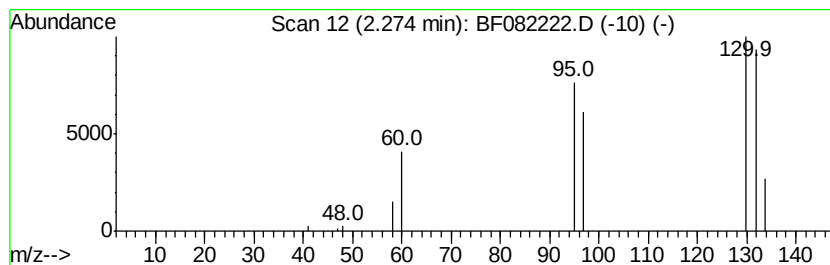
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Trichloroethylene Concentration Rank 6

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 2.27 | 3.78 ng | 68218 | 1,4-Dichlorobenzene-d4 | 6.83 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | Trichloroethylene                   | 130 | C2HCl3    | 000079-01-6 | 91   |
| 2    |    |   | 4-Chloro-2-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-00-5 | 27   |
| 3    |    |   | 1,3-Oxathiane, 4,6-dimethyl-, cis-  | 132 | C6H12OS   | 022452-25-1 | 9    |
| 4    |    |   | 1,3-Cyclopentanedione, 2-chloro-    | 132 | C5H5ClO2  | 014203-19-1 | 9    |
| 5    |    |   | 1H-1,2,4-Triazol-3-amine, 5-(met... | 130 | C3H6N4S   | 045534-08-5 | 9    |



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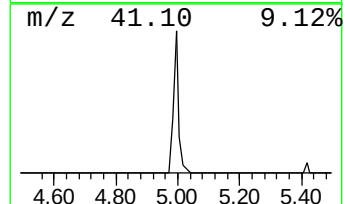
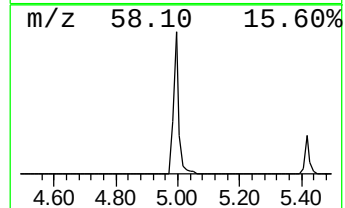
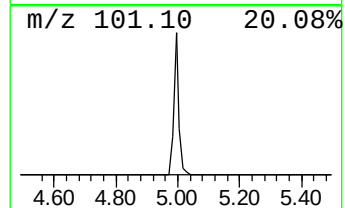
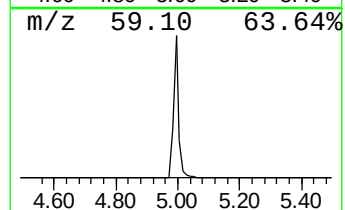
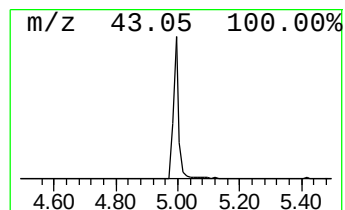
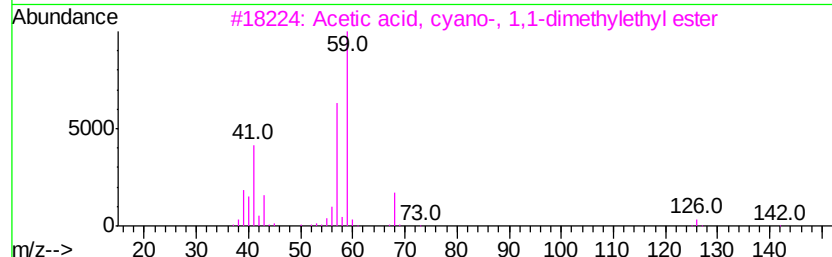
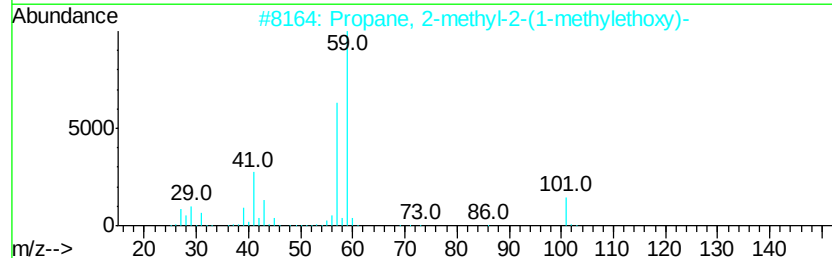
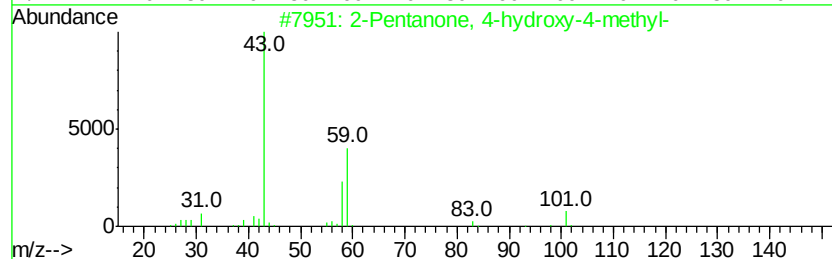
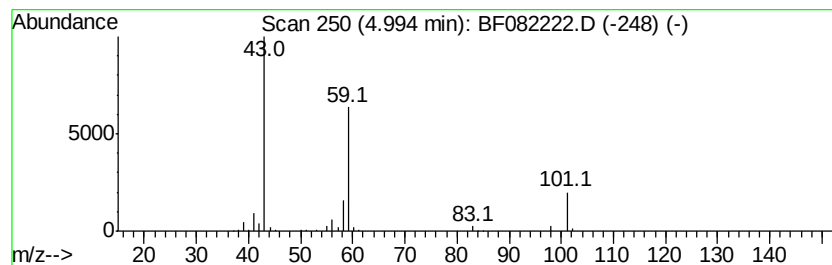
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.99 | 22.58 ng | 407738 | 1,4-Dichlorobenzene-d4 | 6.83 |

| 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-methyleth...  | 116 | C7H16O   | 017348-59-3 | 28   |
| 3    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 25   |
| 4    |    | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 9    |
| 5    |    | Morpholine, 4-methyl-                | 101 | C5H11NO  | 000109-02-4 | 9    |



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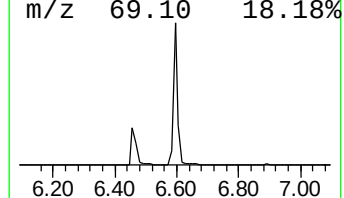
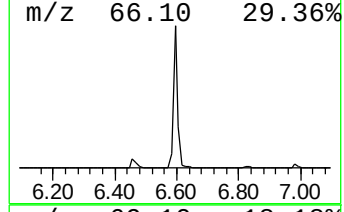
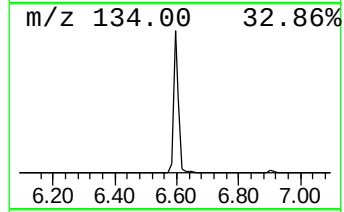
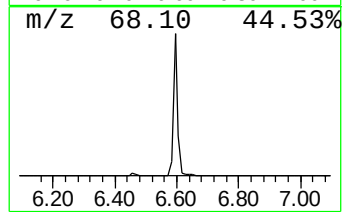
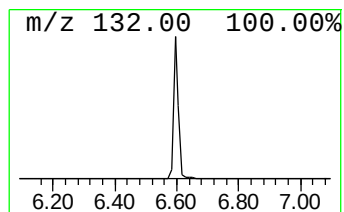
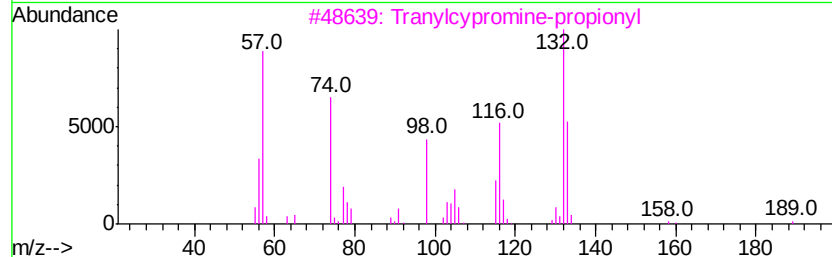
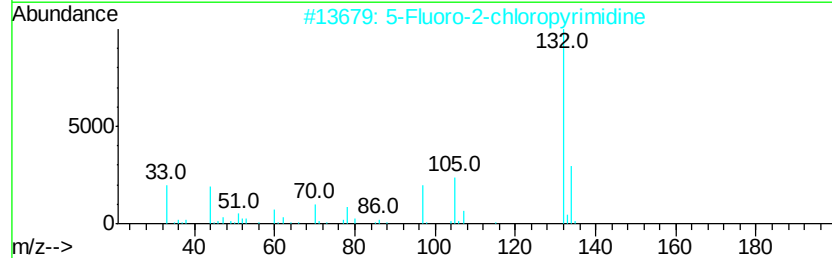
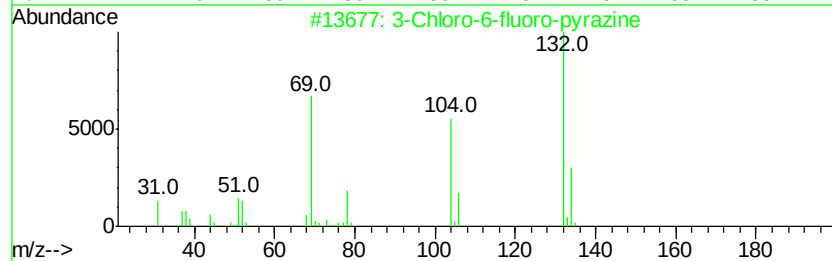
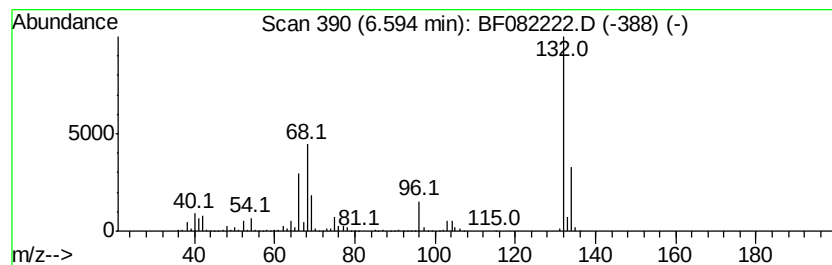
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 3-Chloro-6-fluoro-pyrazine Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.59 | 88.47 ng | 1597300 | 1,4-Dichlorobenzene-d4 | 6.83 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 16   |
| 3    |    | Tranvlcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    | Benzene, 1,3,5-trifluoro-        | 132 | C6H3F3    | 000372-38-3  | 9    |
| 5    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 9    |



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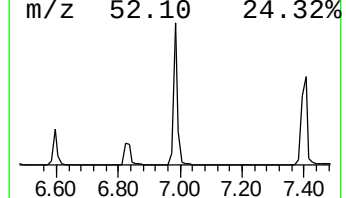
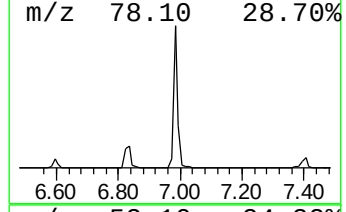
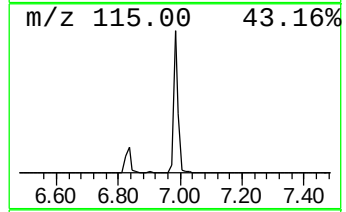
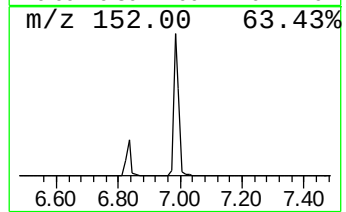
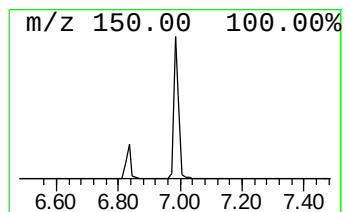
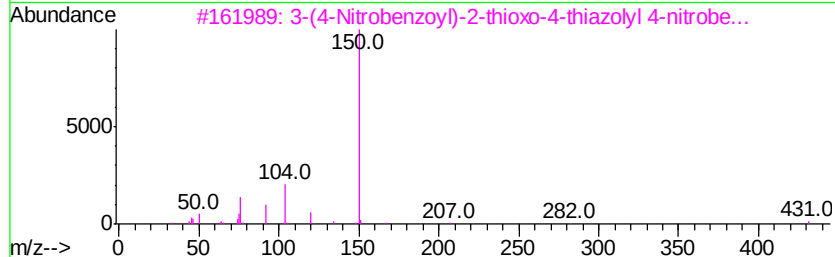
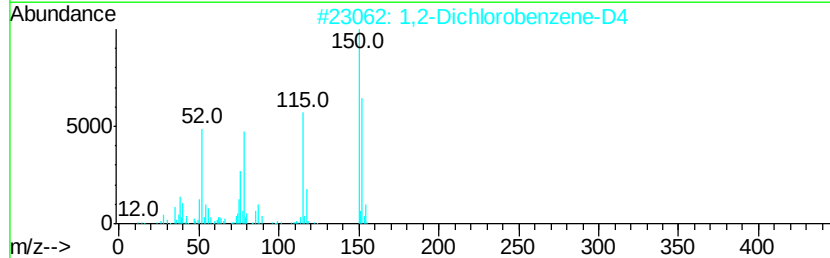
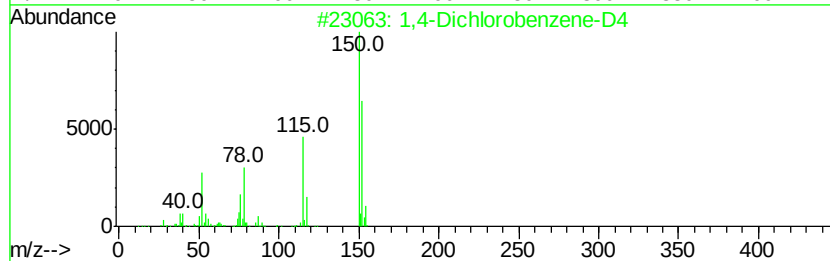
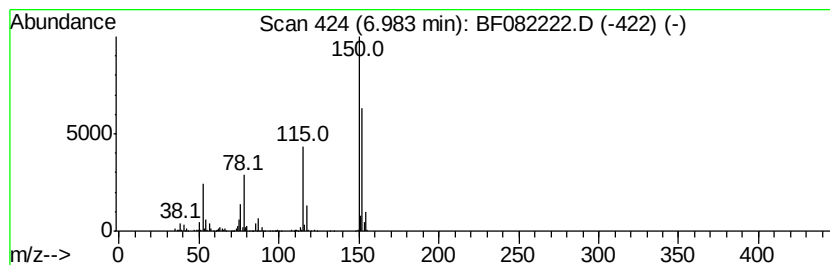
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TIC Library : C:\DATABASE\NIST02.L  
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Peak Number 4 1,4-Dichlorobenzene-D4 Concentration Rank 2

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.98 | 86.95 ng | 1569740 | 1,4-Dichlorobenzene-d4 | 6.83 |

| Hit# | of | Tentative ID                        | MW  | MolForm      | CAS#         | Qual |
|------|----|-------------------------------------|-----|--------------|--------------|------|
| 1    | 5  | 1,4-Dichlorobenzene-D4              | 150 | C6D4Cl2      | 003855-82-1  | 94   |
| 2    |    | 1,2-Dichlorobenzene-D4              | 150 | C6D4Cl2      | 002199-69-1  | 94   |
| 3    |    | 3-(4-Nitrobenzoyl)-2-thioxo-4-th... | 431 | C17H9N3O7S2  | 329218-74-8  | 10   |
| 4    |    | 2-Cyclohexene-1,4-dione, 5-bromo... | 380 | C15H13BrN2O5 | 1000265-00-5 | 10   |
| 5    |    | 2-Bromo-3'-nitroacetophenone        | 243 | C8H6BrN3O3   | 002227-64-7  | 10   |



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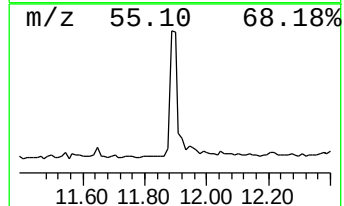
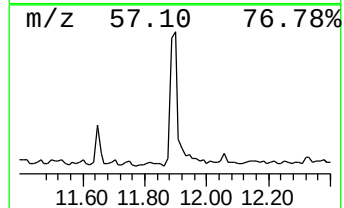
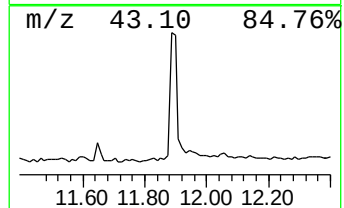
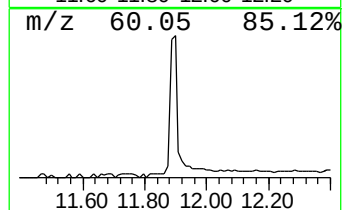
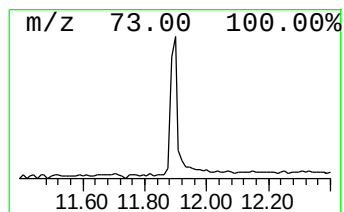
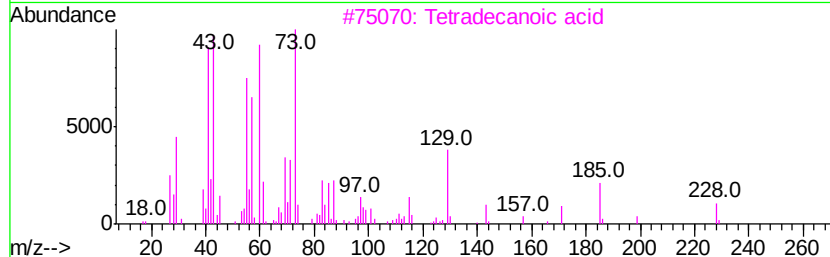
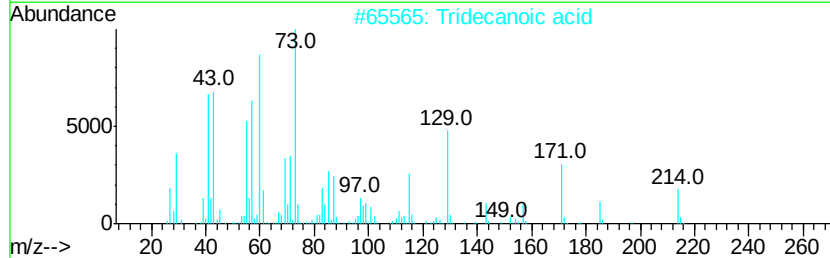
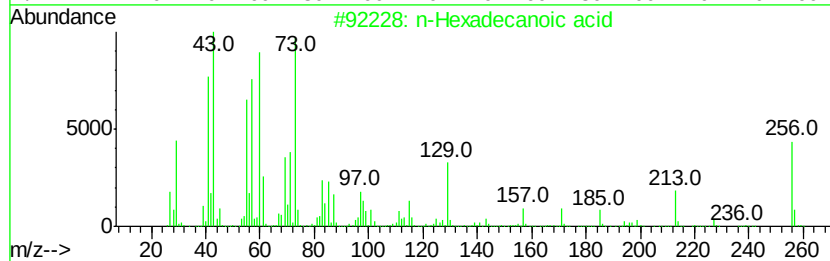
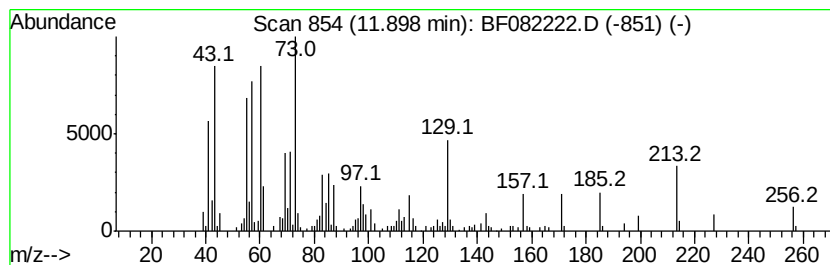
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 n-Hexadecanoic acid Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.90 | 8.61 ng | 282014 | Phenanthrene-d10 | 11.36 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 97   |
| 2    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 94   |
| 3    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 64   |
| 4    |    | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 64   |
| 5    |    | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 55   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101215\  
Data File : BF082222.D  
Acq On : 12 Oct 2015 16:01  
Operator : UM/IZ  
Sample : G3990-01  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TE-PMW(2-15)

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

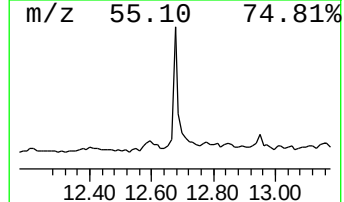
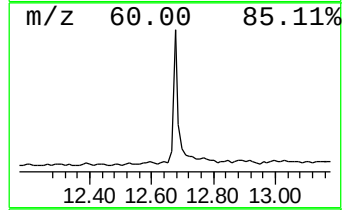
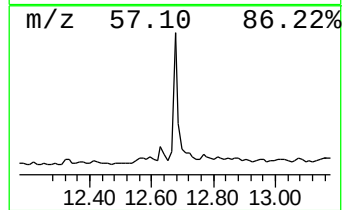
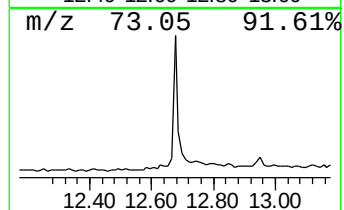
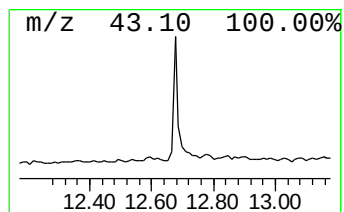
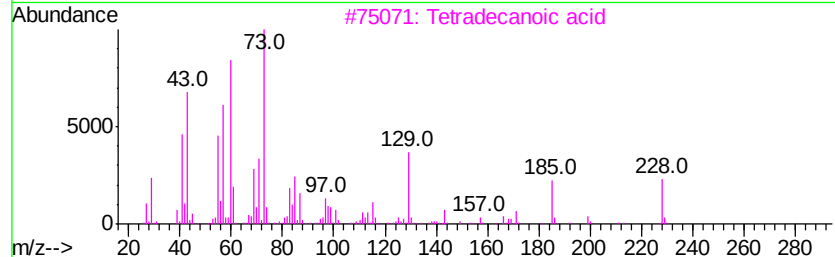
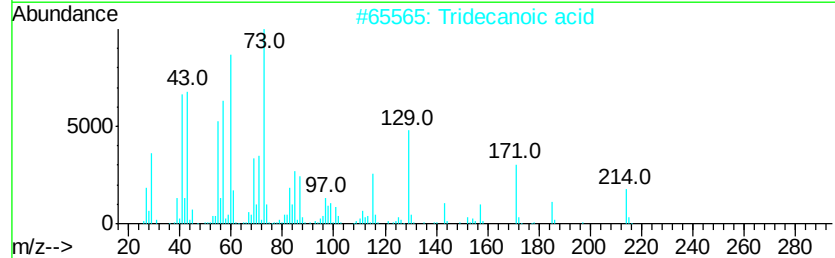
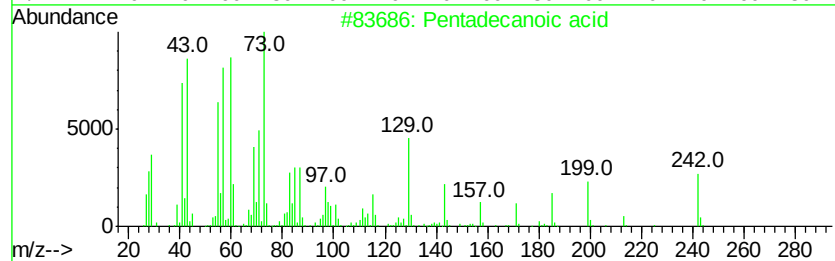
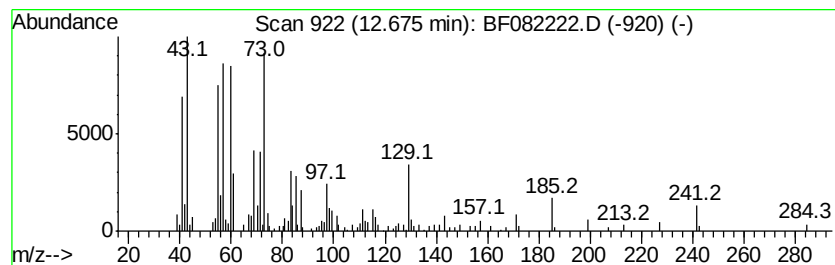
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.68 | 5.95 ng | 195020 | Phenanthrene-d10 | 11.36 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | Pentadecanoic acid                  | 242 | C15H30O2   | 001002-84-2 | 87   |
| 2    |    | Tridecanoic acid                    | 214 | C13H26O2   | 000638-53-9 | 64   |
| 3    |    | Tetradecanoic acid                  | 228 | C14H28O2   | 000544-63-8 | 58   |
| 4    |    | n-Decanoic acid                     | 172 | C10H20O2   | 000334-48-5 | 53   |
| 5    |    | Trifluoroacetic acid, n-octadecy... | 366 | C20H37F3O2 | 079392-43-1 | 11   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF101215\  
Data File : BF082222.D  
Acq On : 12 Oct 2015 16:01  
Operator : UM/IZ  
Sample : G3990-01  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TE-PMW(2-15)

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 |
| Trichloroethylene    | 2.27  | 3.8     | ng    | 68218    | 1                     | 6.83  | 361077 | 20.0 |
| 2-Pentanone, 4-hy... | 4.99  | 22.6    | ng    | 407738   | 1                     | 6.83  | 361077 | 20.0 |
| 3-Chloro-6-fluoro... | 6.59  | 88.5    | ng    | 1597300  | 1                     | 6.83  | 361077 | 20.0 |
| 1,4-Dichlorobenze... | 6.98  | 86.9    | ng    | 1569740  | 1                     | 6.83  | 361077 | 20.0 |
| n-Hexadecanoic acid  | 11.90 | 8.6     | ng    | 282014   | 4                     | 11.36 | 655268 | 20.0 |
| Pentadecanoic acid   | 12.68 | 6.0     | ng    | 195020   | 4                     | 11.36 | 655268 | 20.0 |