

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\  
 Data File : BF091550.D  
 Acq On : 13 Dec 2016 13:32  
 Operator : UM/SJ  
 Sample : H6009-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 1M-BS-HU-01

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-BF120916.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         | 5.001       | 252           | 255         | 264          | rVB      | 2406655        | 3682099       | 37.14%          | 4.293%        |
| 2         | 5.424       | 289           | 292         | 295          | rBV      | 6981883        | 8590833       | 86.66%          | 10.015%       |
| 3         | 6.453       | 379           | 382         | 385          | rBV      | 6080298        | 9913712       | 100.00%         | 11.557%       |
| 4         | 6.590       | 391           | 394         | 396          | rBV      | 6916022        | 9523864       | 96.07%          | 11.103%       |
| 5         | 6.807       | 411           | 413         | 416          | rBV      | 1741726        | 1875999       | 18.92%          | 2.187%        |
| 6         | 6.967       | 424           | 427         | 430          | rBV      | 6528369        | 6555489       | 66.13%          | 7.642%        |
| 7         | 7.379       | 460           | 463         | 465          | rBV      | 5650489        | 6099935       | 61.53%          | 7.111%        |
| 8         | 8.099       | 523           | 526         | 528          | rBV      | 2676958        | 2632657       | 26.56%          | 3.069%        |
| 9         | 9.173       | 617           | 620         | 623          | rBV      | 7621405        | 8890433       | 89.68%          | 10.364%       |
| 10        | 9.573       | 652           | 655         | 657          | rBV      | 1181961        | 1384868       | 13.97%          | 1.614%        |
| 11        | 9.847       | 676           | 679         | 681          | rBV      | 3214156        | 2788779       | 28.13%          | 3.251%        |
| 12        | 10.293      | 716           | 718         | 719          | rVB      | 114499         | 125924        | 1.27%           | 0.147%        |
| 13        | 10.636      | 745           | 748         | 751          | rBV      | 5128364        | 5770904       | 58.21%          | 6.728%        |
| 14        | 10.762      | 755           | 759         | 764          | rVV2     | 240189         | 319918        | 3.23%           | 0.373%        |
| 15        | 11.207      | 796           | 798         | 799          | rBV      | 264444         | 218820        | 2.21%           | 0.255%        |
| 16        | 11.333      | 806           | 809         | 811          | rBV      | 2140946        | 2642183       | 26.65%          | 3.080%        |
| 17        | 11.630      | 833           | 835         | 838          | rBV      | 180019         | 161572        | 1.63%           | 0.188%        |
| 18        | 11.870      | 854           | 856         | 863          | rBV2     | 264476         | 385461        | 3.89%           | 0.449%        |
| 19        | 12.648      | 922           | 924         | 931          | rBV      | 165240         | 205957        | 2.08%           | 0.240%        |
| 20        | 12.922      | 945           | 948         | 950          | rBV      | 7104486        | 8519130       | 85.93%          | 9.932%        |
| 21        | 13.813      | 1024          | 1026        | 1032         | rBV      | 271868         | 337881        | 3.41%           | 0.394%        |
| 22        | 13.962      | 1036          | 1039        | 1041         | rBV      | 2023588        | 2220505       | 22.40%          | 2.589%        |
| 23        | 14.454      | 1077          | 1082        | 1088         | rBV3     | 61813          | 140675        | 1.42%           | 0.164%        |
| 24        | 15.368      | 1159          | 1162        | 1165         | rBV      | 1169317        | 1766639       | 17.82%          | 2.060%        |
| 25        | 15.425      | 1165          | 1167        | 1170         | rVB      | 85524          | 135996        | 1.37%           | 0.159%        |
| 26        | 15.825      | 1199          | 1202        | 1205         | rBV      | 105849         | 170190        | 1.72%           | 0.198%        |
| 27        | 16.305      | 1241          | 1244        | 1250         | rVB      | 103194         | 197296        | 1.99%           | 0.230%        |
| 28        | 16.854      | 1289          | 1292        | 1296         | rBV      | 65316          | 132963        | 1.34%           | 0.155%        |
| 29        | 17.505      | 1345          | 1349        | 1353         | rVB      | 51457          | 121086        | 1.22%           | 0.141%        |
| 30        | 19.220      | 1493          | 1499        | 1510         | rVB5     | 70954          | 266378        | 2.69%           | 0.311%        |

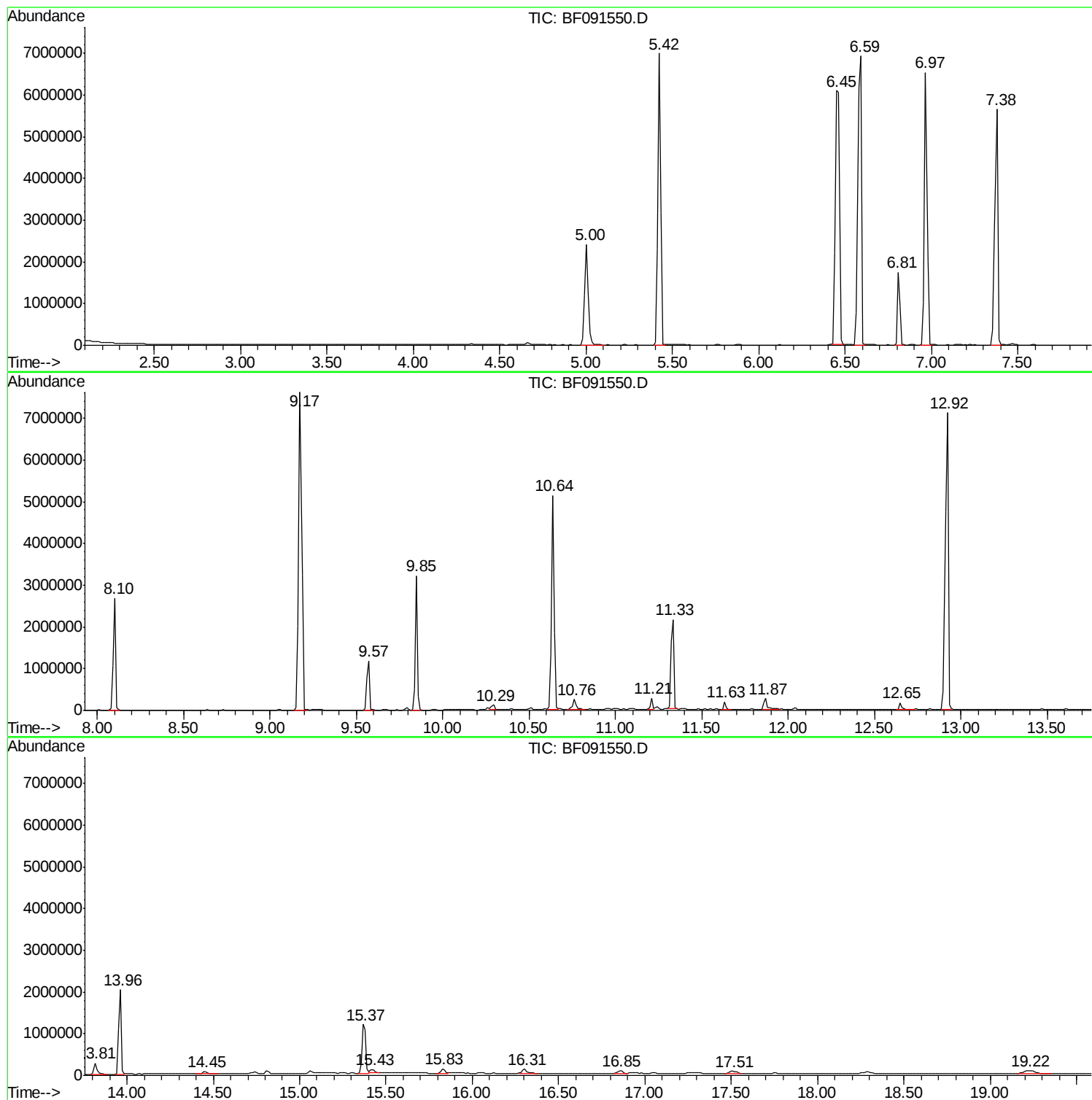
Sum of corrected areas: 85778146

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\  
Data File : BF091550.D  
Acq On : 13 Dec 2016 13:32  
Operator : UM/SJ  
Sample : H6009-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
1M-BS-HU-01

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.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\_F\DATA\BF121316\  
Data File : BF091550.D  
Acq On : 13 Dec 2016 13:32  
Operator : UM/SJ  
Sample : H6009-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
1M-BS-HU-01

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF120916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

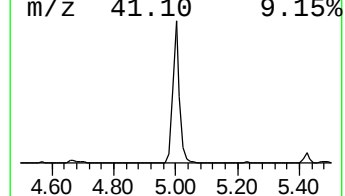
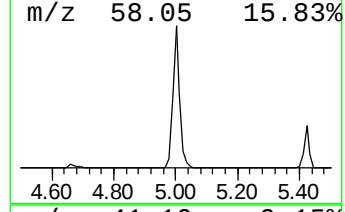
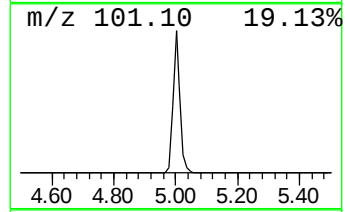
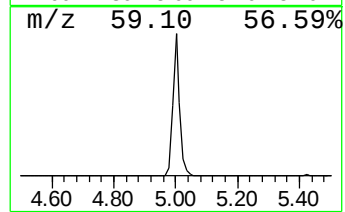
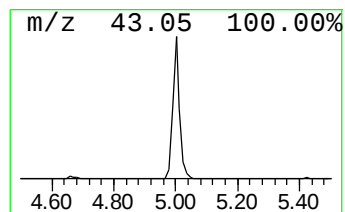
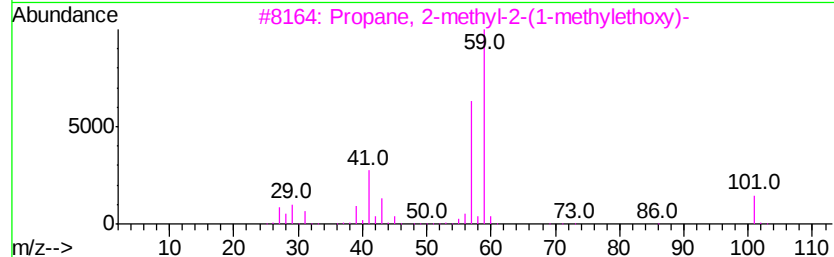
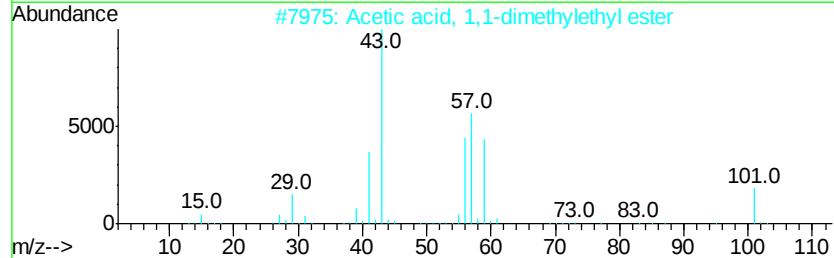
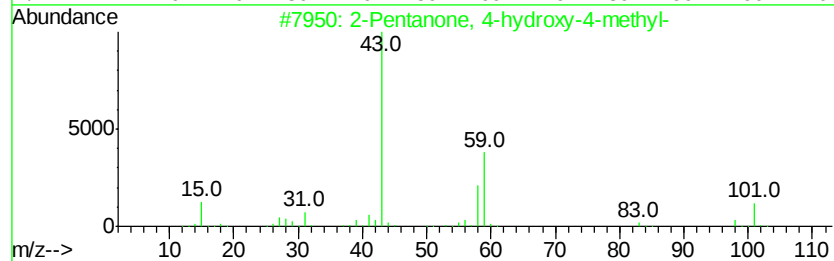
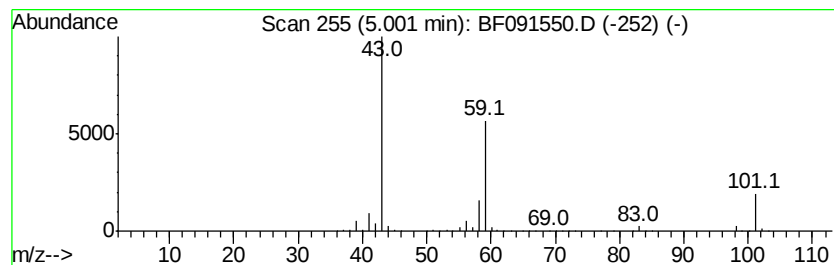
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 5.00 | 39.25 ng | 3682100 | 1,4-Dichlorobenzene-d4 | 6.81 |

| Hit# of | 5                                   | Tentative ID | MW       | MolForm     | CAS# | Qual |
|---------|-------------------------------------|--------------|----------|-------------|------|------|
| 1       | 2-Pentanone, 4-hydroxy-4-methyl-    | 116          | C6H12O2  | 000123-42-2 | 53   |      |
| 2       | Acetic acid, 1,1-dimethylethyl e... | 116          | C6H12O2  | 000540-88-5 | 39   |      |
| 3       | Propane, 2-methyl-2-(1-methyleth... | 116          | C7H16O   | 017348-59-3 | 36   |      |
| 4       | Acetic acid, cyano-, 1,1-dimethy... | 141          | C7H11NO2 | 001116-98-9 | 25   |      |
| 5       | Morpholine, 4-methyl-               | 101          | C5H11NO  | 000109-02-4 | 9    |      |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\  
Data File : BF091550.D  
Acq On : 13 Dec 2016 13:32  
Operator : UM/SJ  
Sample : H6009-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
1M-BS-HU-01

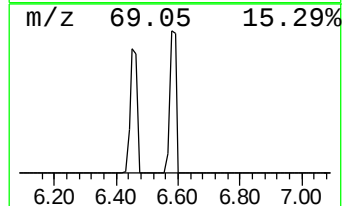
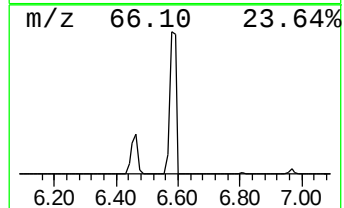
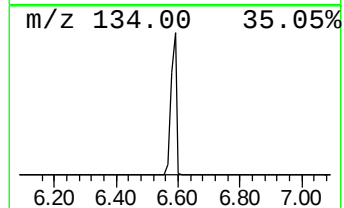
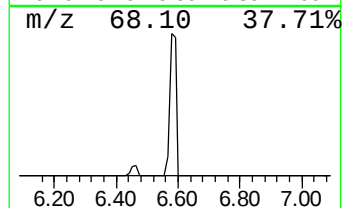
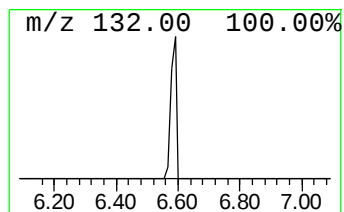
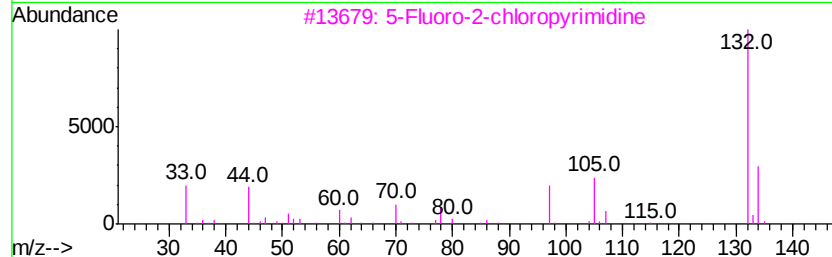
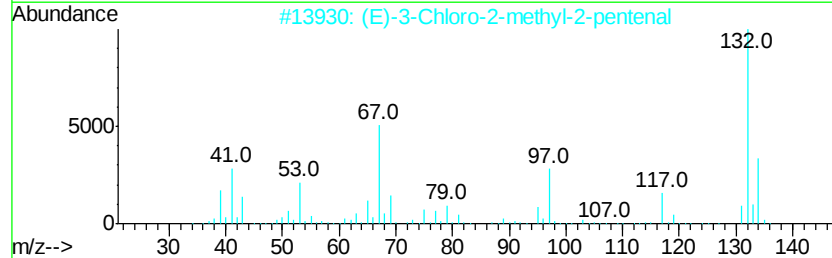
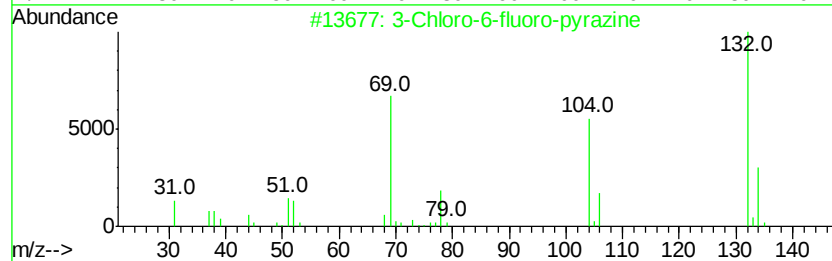
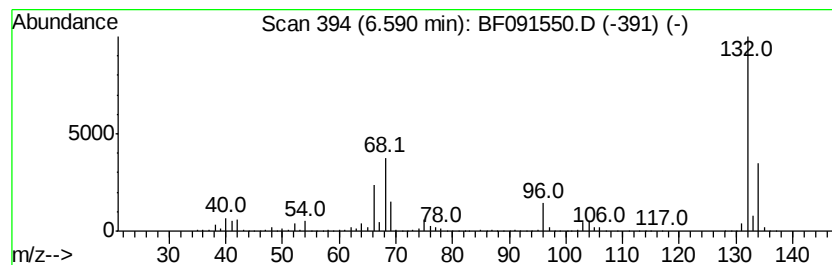
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 unknown6.59 Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 6.59 | 101.53 ng | 9523860 | 1,4-Dichlorobenzene-d4 | 6.81 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 9    |
| 4    |    | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 9    |
| 5    |    | Imidazole, 4,5-dicyano-1-methyl- | 132 | C6H4N4    | 019485-35-9  | 9    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\  
Data File : BF091550.D  
Acq On : 13 Dec 2016 13:32  
Operator : UM/SJ  
Sample : H6009-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
1M-BS-HU-01

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

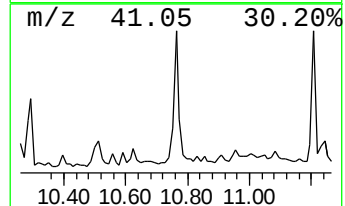
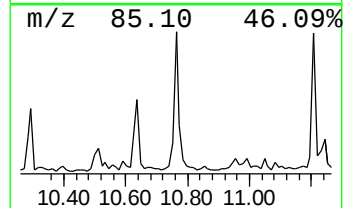
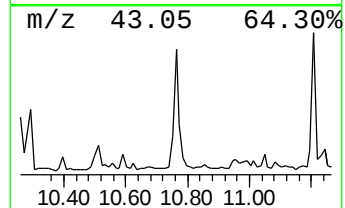
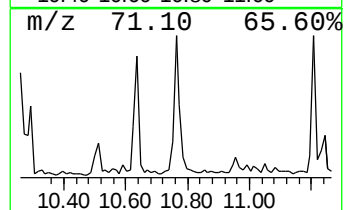
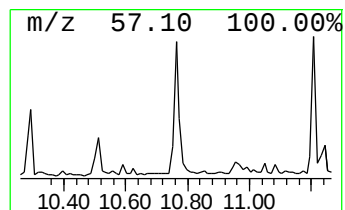
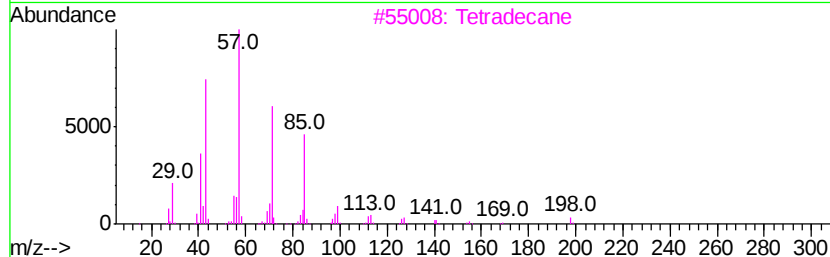
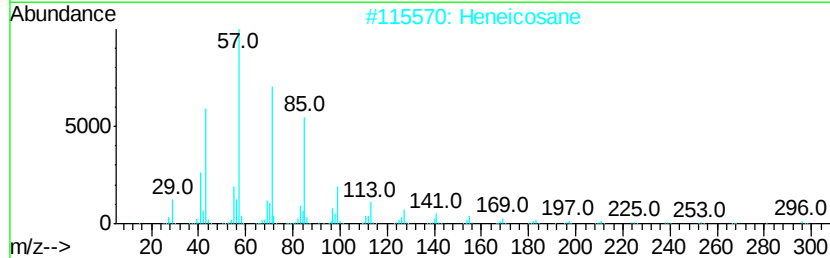
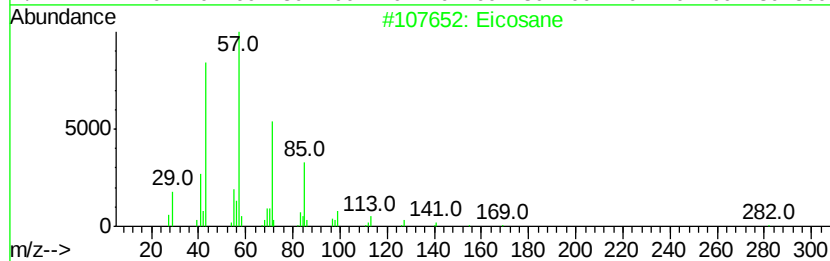
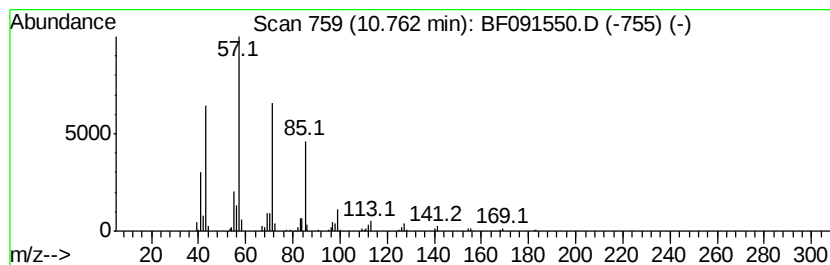
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Eicosane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.76 | 2.42 ng | 319918 | Phenanthrene-d10 | 11.33 |

| Hit# | of | Tentative ID                | MW  | MolForm     | CAS#        | Qual |
|------|----|-----------------------------|-----|-------------|-------------|------|
| 1    | 5  | Eicosane                    | 282 | C20H42      | 000112-95-8 | 91   |
| 2    |    | Heneicosane                 | 296 | C21H44      | 000629-94-7 | 90   |
| 3    |    | Tetradecane                 | 198 | C14H30      | 000629-59-4 | 90   |
| 4    |    | Pentadecane                 | 212 | C15H32      | 000629-62-9 | 87   |
| 5    |    | Silane, trichlorooctadecyl- | 386 | C18H37Cl3Si | 000112-04-9 | 80   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF121316\  
Data File : BF091550.D  
Acq On : 13 Dec 2016 13:32  
Operator : UM/SJ  
Sample : H6009-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
1M-BS-HU-01

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF120916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

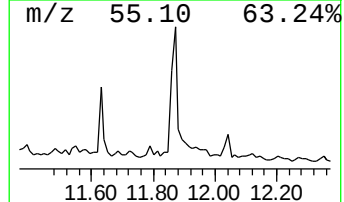
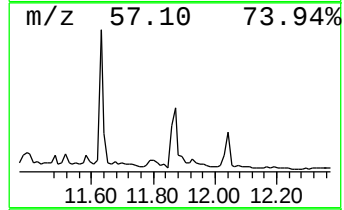
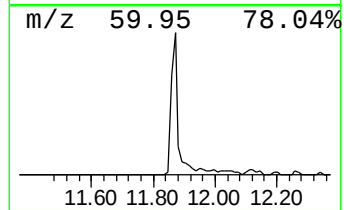
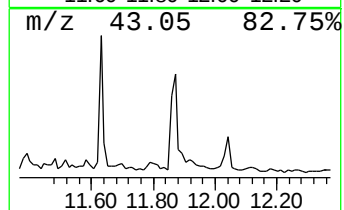
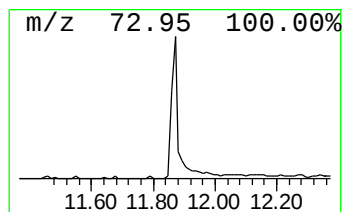
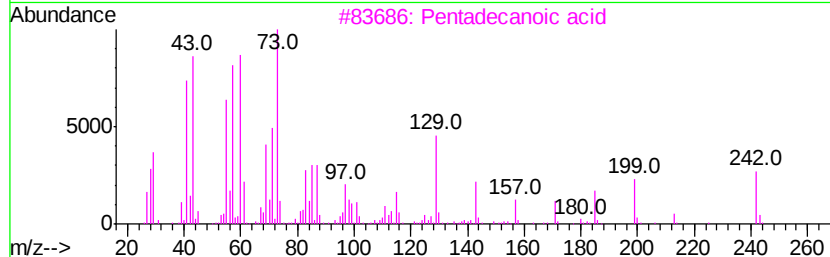
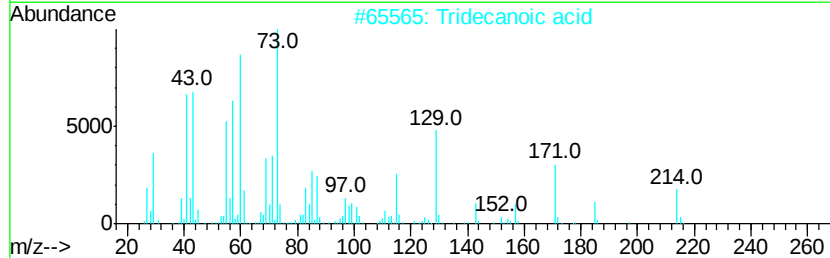
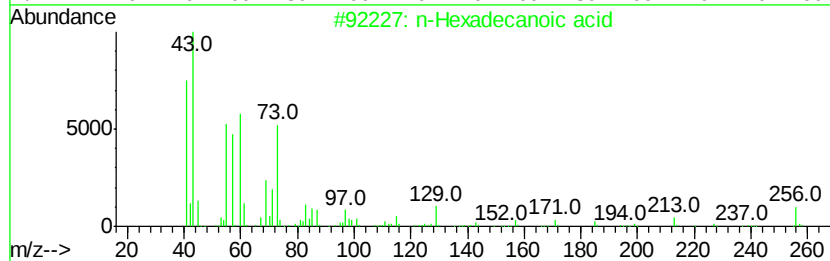
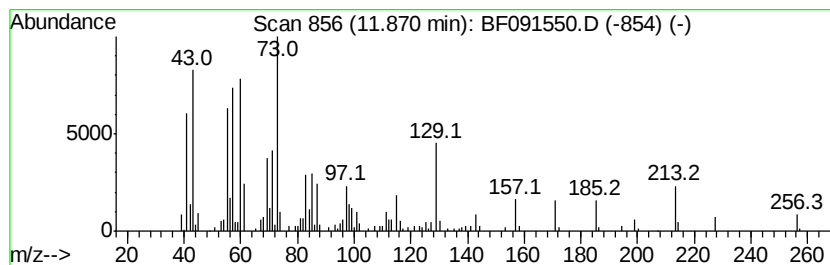
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 n-Hexadecanoic acid Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.87 | 2.92 ng | 385461 | Phenanthrene-d10 | 11.33 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 95   |
| 2       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 94   |
| 3       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 90   |
| 4       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 86   |
| 5       |   | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 68   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\  
Data File : BF091550.D  
Acq On : 13 Dec 2016 13:32  
Operator : UM/SJ  
Sample : H6009-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
1M-BS-HU-01

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

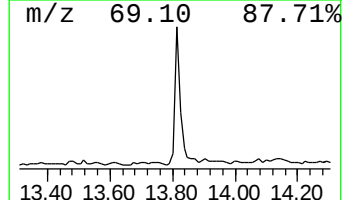
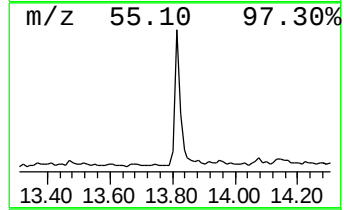
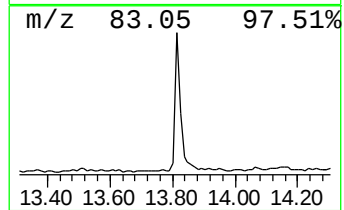
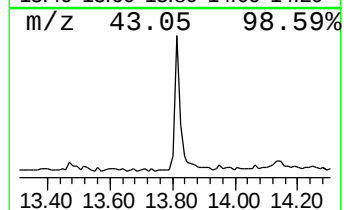
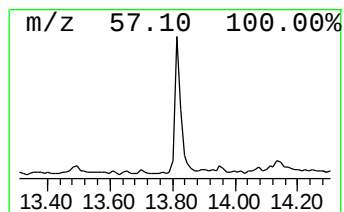
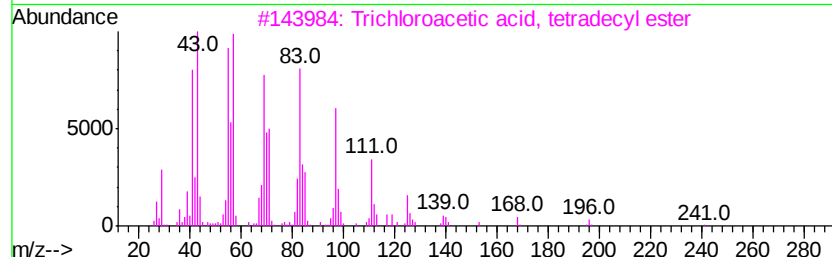
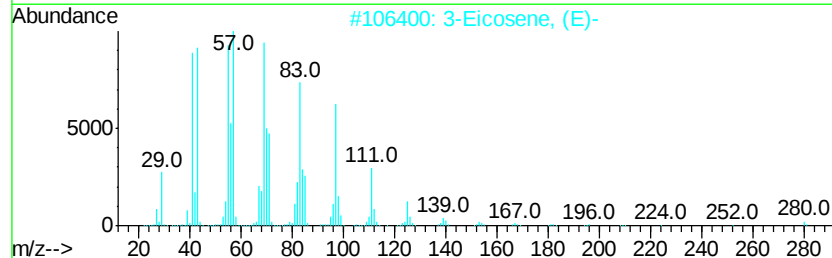
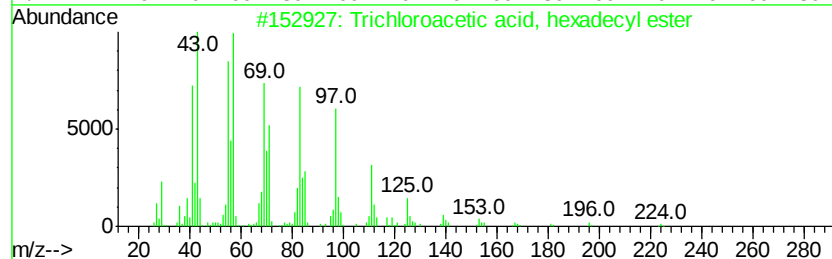
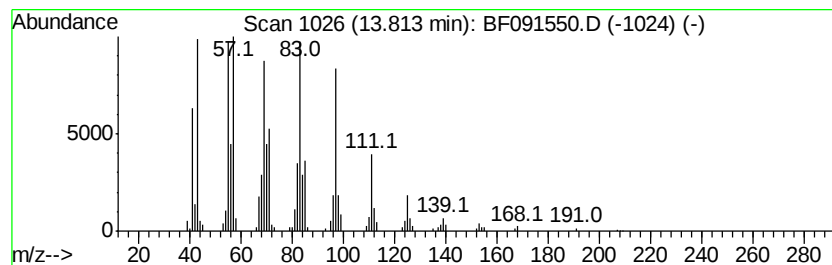
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Trichloroacetic acid, hexad... Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.81 | 3.04 ng | 337881 | Chrysene-d12     | 13.96 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|------|----|-------------------------------------|-----|-------------|-------------|------|
| 1    | 5  | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 94   |
| 2    |    | 3-Eicosene, (E)-                    | 280 | C20H40      | 074685-33-9 | 91   |
| 3    |    | Trichloroacetic acid, tetradecyl... | 358 | C16H29Cl3O2 | 074339-52-9 | 91   |
| 4    |    | 1-Nonadecene                        | 266 | C19H38      | 018435-45-5 | 91   |
| 5    |    | Trichloroacetic acid, pentadecyl... | 372 | C17H31Cl3O2 | 074339-53-0 | 90   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121316\  
Data File : BF091550.D  
Acq On : 13 Dec 2016 13:32  
Operator : UM/SJ  
Sample : H6009-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
1M-BS-HU-01

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

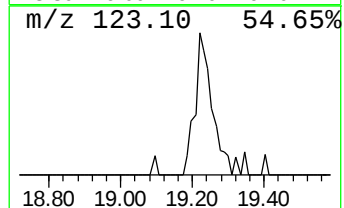
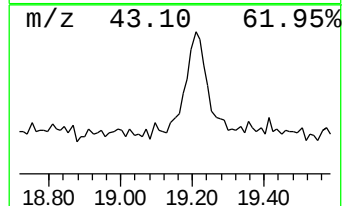
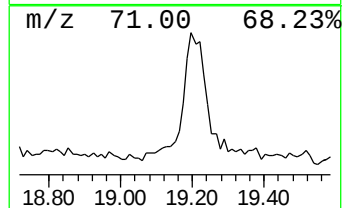
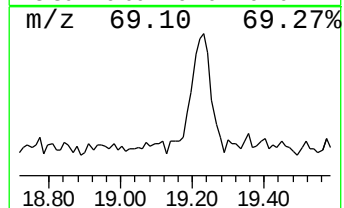
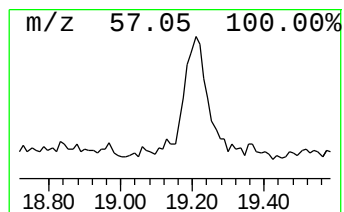
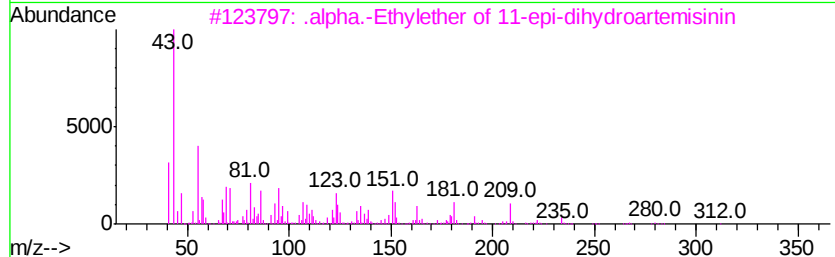
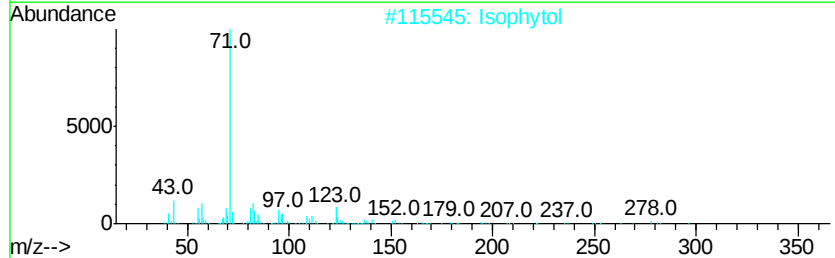
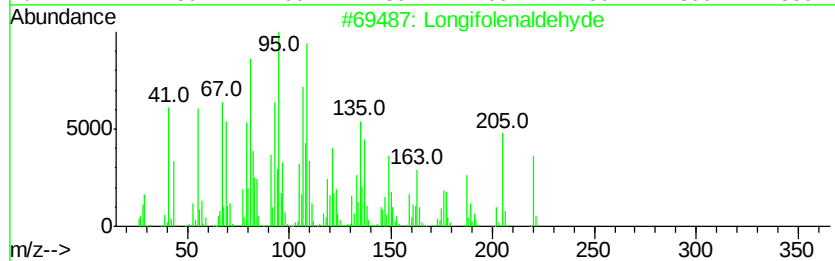
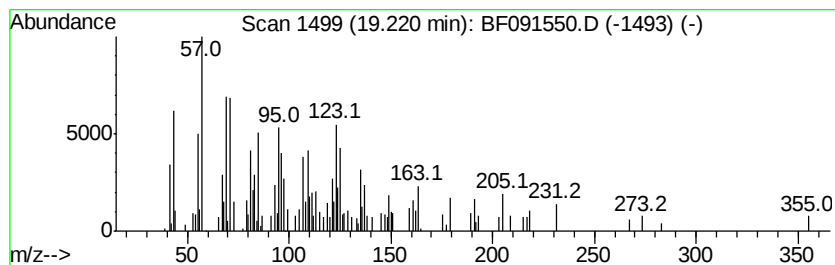
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 unknown19.22 Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.22 | 3.02 ng | 266378 | Perylene-d12     | 15.38 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Longifolenaldehyde                  | 220 | C15H24O  | 019890-84-7  | 38   |
| 2    |    | Isophytol                           | 296 | C20H40O  | 000505-32-8  | 35   |
| 3    |    | .alpha.-Ethylether of 11-epi-dih... | 312 | C17H28O5 | 1000128-44-5 | 35   |
| 4    |    | Bicyclo[2.2.1]heptane, 2,2,3-tri... | 138 | C10H18   | 020536-40-7  | 25   |
| 5    |    | 2,2,6-Trimethyl-1-(3-methylbuta-... | 222 | C14H22O2 | 1000191-85-4 | 22   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF121316\  
Data File : BF091550.D  
Acq On : 13 Dec 2016 13:32  
Operator : UM/SJ  
Sample : H6009-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
1M-BS-HU-01

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF120916.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... | 5.00  | 39.3    | ng    | 3682100  | 1                     | 6.81  | 1876000 | 20.0 |
| unknown6.59          | 6.59  | 101.5   | ng    | 9523860  | 1                     | 6.81  | 1876000 | 20.0 |
| Eicosane             | 10.76 | 2.4     | ng    | 319918   | 4                     | 11.33 | 2642180 | 20.0 |
| n-Hexadecanoic acid  | 11.87 | 2.9     | ng    | 385461   | 4                     | 11.33 | 2642180 | 20.0 |
| Trichloroacetic a... | 13.81 | 3.0     | ng    | 337881   | 5                     | 13.96 | 2220510 | 20.0 |
| unknown19.22         | 19.22 | 3.0     | ng    | 266378   | 6                     | 15.38 | 1766640 | 20.0 |