

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071316\  
 Data File : BF088963.D  
 Acq On : 13 Jul 2016 17:42  
 Operator : UM/SJ  
 Sample : H3980-05  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C4.1-08

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-BF063016.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         | 1.667       | 5             | 7           | 16           | rVB      | 185020         | 305581        | 13.71%          | 1.515%        |
| 2         | 1.781       | 16            | 17          | 26           | rVB      | 1199127        | 1884792       | 84.57%          | 9.345%        |
| 3         | 4.856       | 283           | 286         | 294          | rVB      | 125875         | 201198        | 9.03%           | 0.998%        |
| 4         | 5.301       | 322           | 325         | 327          | rBV      | 1405375        | 2023794       | 90.80%          | 10.035%       |
| 5         | 6.353       | 413           | 417         | 419          | rVB      | 1617487        | 2228726       | 100.00%         | 11.051%       |
| 6         | 6.467       | 424           | 427         | 429          | rVB      | 2109009        | 2100116       | 94.23%          | 10.413%       |
| 7         | 6.696       | 445           | 447         | 449          | rBV      | 438269         | 408239        | 18.32%          | 2.024%        |
| 8         | 6.856       | 458           | 461         | 463          | rVB      | 1396098        | 1655173       | 74.27%          | 8.207%        |
| 9         | 7.267       | 493           | 497         | 499          | rBV      | 1115518        | 1432636       | 64.28%          | 7.104%        |
| 10        | 7.382       | 502           | 507         | 509          | rBV      | 26204          | 36379         | 1.63%           | 0.180%        |
| 11        | 7.976       | 557           | 559         | 562          | rBV      | 517535         | 509309        | 22.85%          | 2.525%        |
| 12        | 9.062       | 651           | 654         | 656          | rBV      | 2389421        | 2214436       | 99.36%          | 10.980%       |
| 13        | 9.450       | 686           | 688         | 691          | rBV      | 352023         | 449890        | 20.19%          | 2.231%        |
| 14        | 9.725       | 710           | 712         | 715          | rBV2     | 482871         | 545166        | 24.46%          | 2.703%        |
| 15        | 10.182      | 750           | 752         | 753          | rVB      | 20172          | 27393         | 1.23%           | 0.136%        |
| 16        | 10.513      | 779           | 781         | 784          | rBV2     | 1123875        | 1258330       | 56.46%          | 6.239%        |
| 17        | 10.650      | 791           | 793         | 797          | rBV      | 40373          | 68969         | 3.09%           | 0.342%        |
| 18        | 11.096      | 830           | 832         | 833          | rBV      | 36842          | 38014         | 1.71%           | 0.188%        |
| 19        | 11.199      | 839           | 841         | 844          | rBV      | 387722         | 474282        | 21.28%          | 2.352%        |
| 20        | 11.519      | 867           | 869         | 871          | rVB      | 26714          | 23230         | 1.04%           | 0.115%        |
| 21        | 11.748      | 886           | 889         | 893          | rBV      | 44196          | 59261         | 2.66%           | 0.294%        |
| 22        | 12.788      | 978           | 980         | 983          | rBV      | 1323506        | 1343999       | 60.30%          | 6.664%        |
| 23        | 13.691      | 1057          | 1059        | 1063         | rBV      | 72227          | 101431        | 4.55%           | 0.503%        |
| 24        | 13.828      | 1069          | 1071        | 1073         | rBV      | 383161         | 349800        | 15.70%          | 1.734%        |
| 25        | 14.331      | 1112          | 1115        | 1121         | rBV      | 37001          | 52537         | 2.36%           | 0.260%        |
| 26        | 15.199      | 1188          | 1191        | 1194         | rBV      | 313610         | 345849        | 15.52%          | 1.715%        |
| 27        | 18.777      | 1499          | 1504        | 1507         | rBV4     | 9624           | 29467         | 1.32%           | 0.146%        |

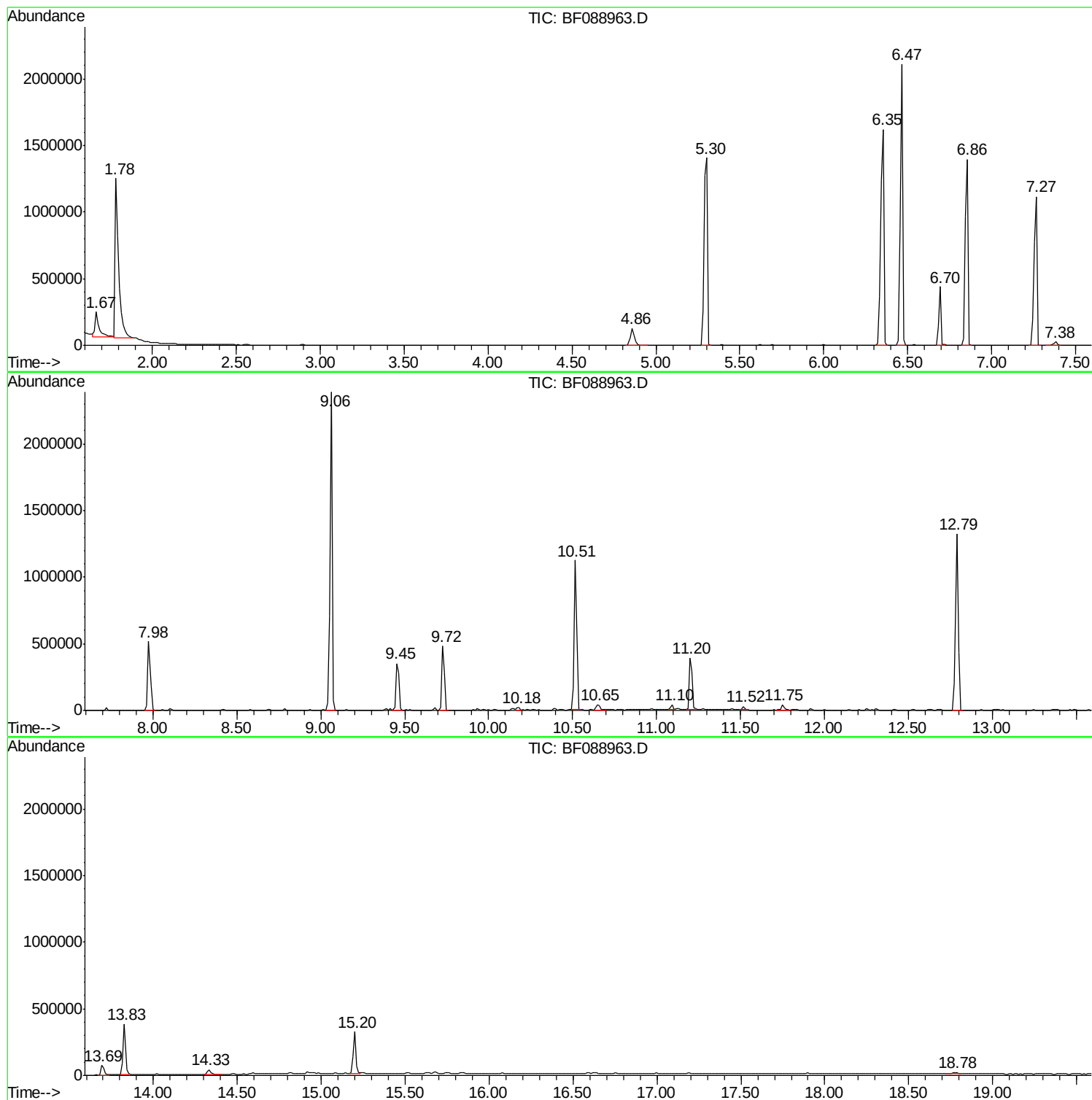
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ClientSampleId :  
C4.1-08

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P



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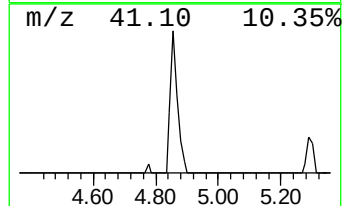
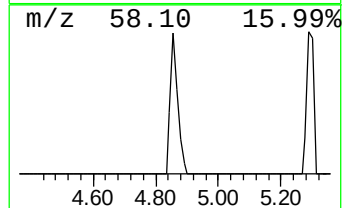
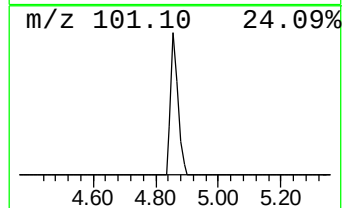
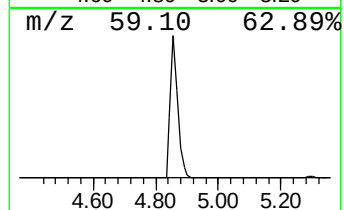
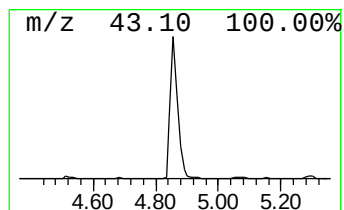
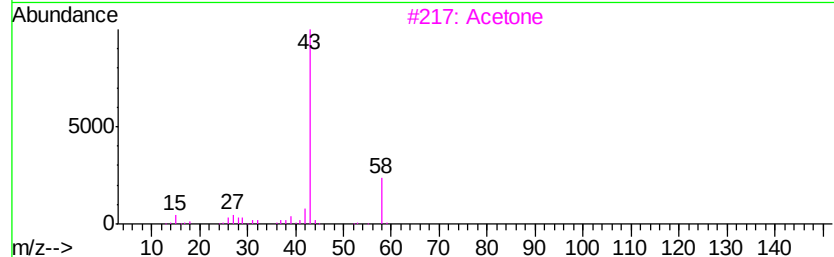
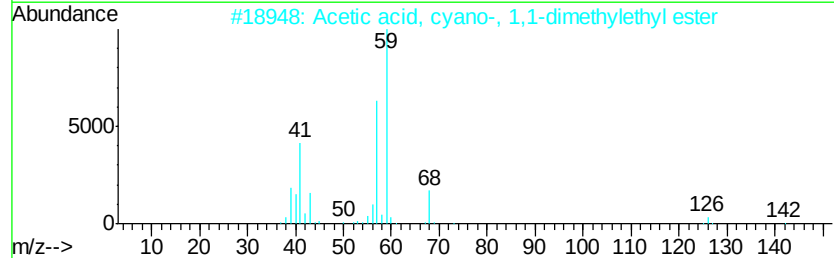
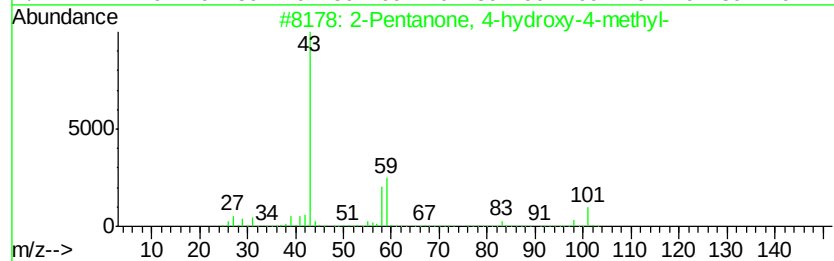
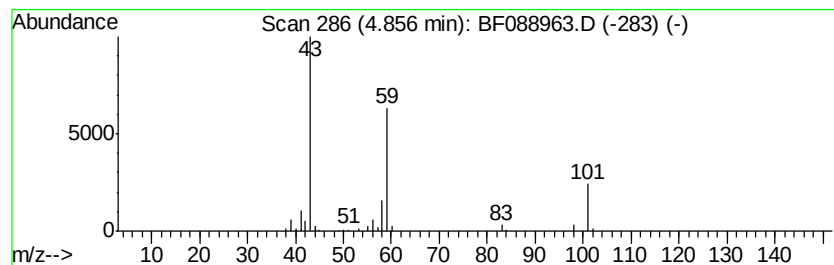
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 4.86 | 9.86 ng | 201198 | 1,4-Dichlorobenzene-d4 | 6.70 |

| Hit# of | 5                                    | Tentative ID | MW       | MolForm     | CAS# | Qual |
|---------|--------------------------------------|--------------|----------|-------------|------|------|
| 1       | 2-Pentanone, 4-hydroxy-4-methyl-     | 116          | C6H12O2  | 000123-42-2 | 56   |      |
| 2       | Acetic acid, cyano-, 1,1-dimethyl... | 141          | C7H11NO2 | 001116-98-9 | 25   |      |
| 3       | Acetone                              | 58           | C3H6O    | 000067-64-1 | 10   |      |
| 4       | (+)-4-Amino-4,5-dihydro-2(3H)-f...   | 101          | C4H7NO2  | 016504-58-8 | 9    |      |
| 5       | 5-Hexen-2-one                        | 98           | C6H10O   | 000109-49-9 | 9    |      |



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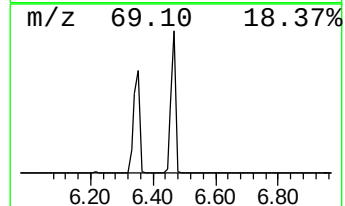
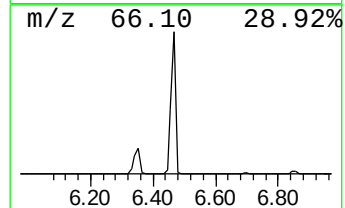
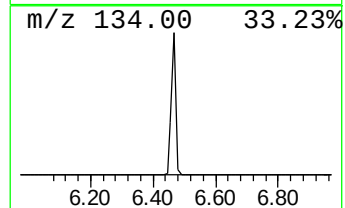
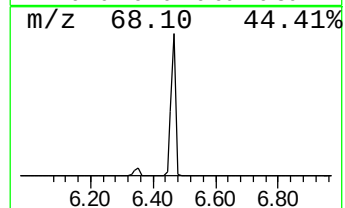
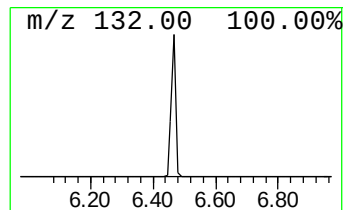
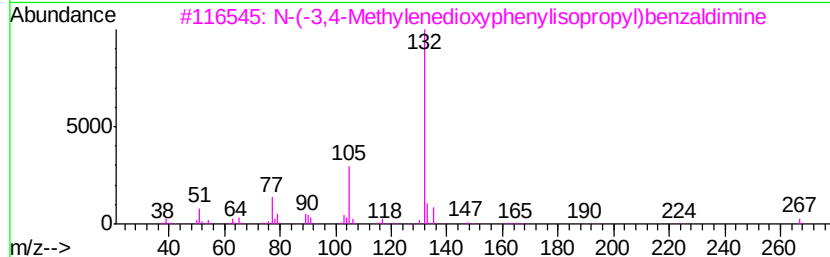
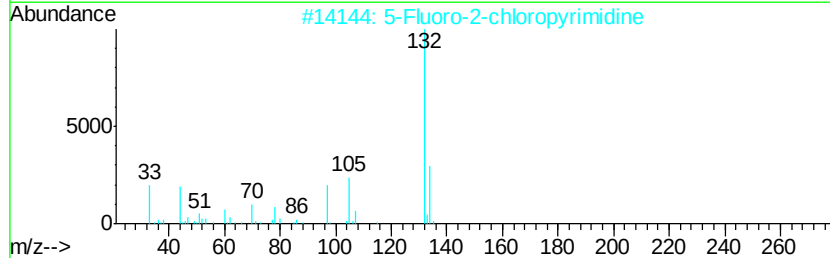
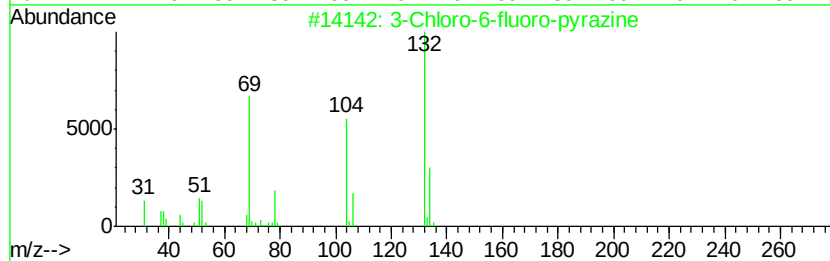
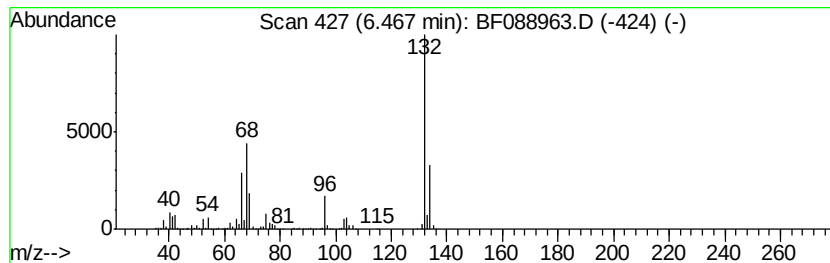
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 unknown6.47 Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 6.47 | 102.89 ng | 2100120 | 1,4-Dichlorobenzene-d4 | 6.70 |

| 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    |    | N-(3,4-Methylenedioxyphenylisopropyl)benzaldimine | 267 | C17H17NO2 | 1000378-96-6 | 10   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,...               | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | 4-Chloro-2-fluoro-pyrimidine                      | 132 | C4H2ClFN2 | 051422-00-5  | 9    |



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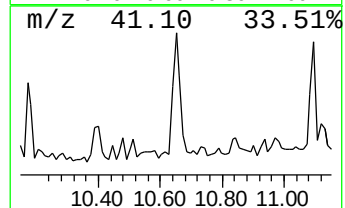
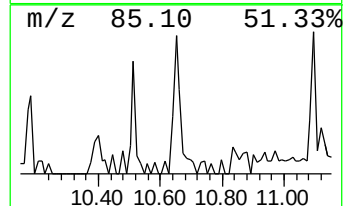
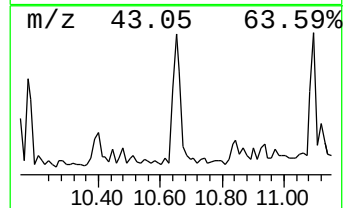
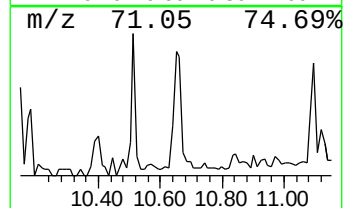
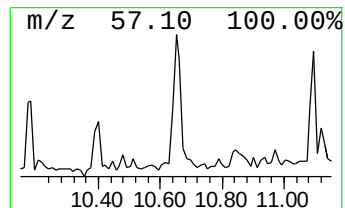
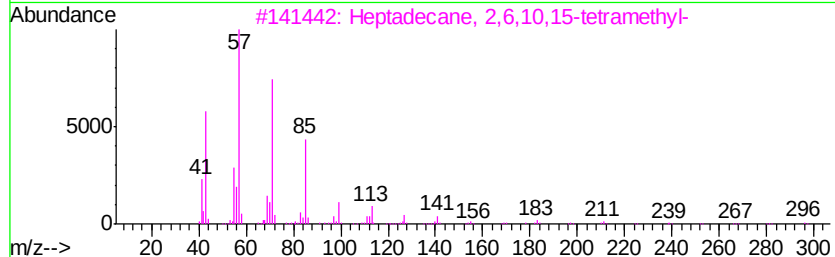
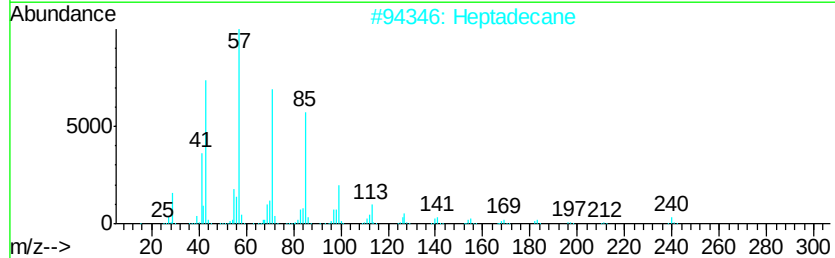
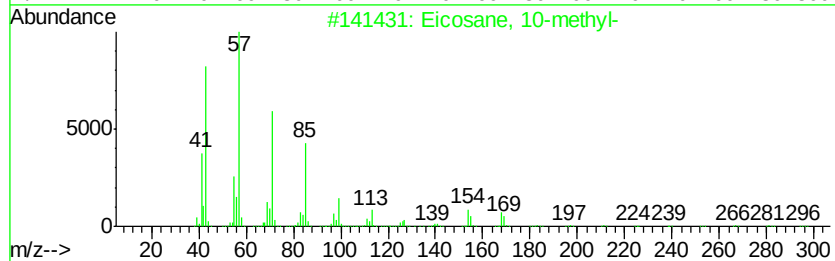
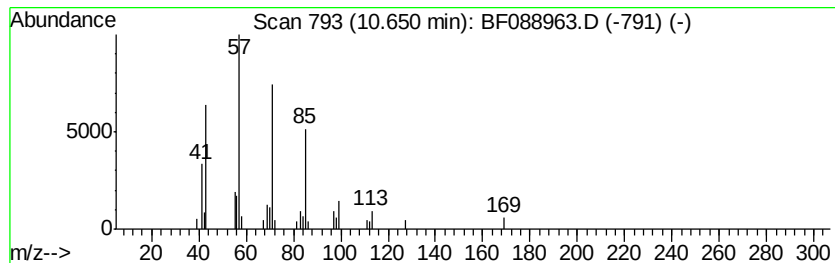
TIC Library : C:\Database\NIST11.L  
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Peak Number 6 Eicosane, 10-methyl- Concentration Rank 8

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 10.65 | 2.91 ng | 68969 | Phenanthrene-d10 | 11.20 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane, 10-methyl-                | 296 | C21H44  | 054833-23-7 | 90   |
| 2    |    | Heptadecane                         | 240 | C17H36  | 000629-78-7 | 90   |
| 3    |    | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 90   |
| 4    |    | Dodecane, 1-iodo-                   | 296 | C12H25I | 004292-19-7 | 86   |
| 5    |    | Tetracosane                         | 338 | C24H50  | 000646-31-1 | 86   |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
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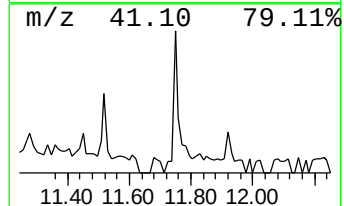
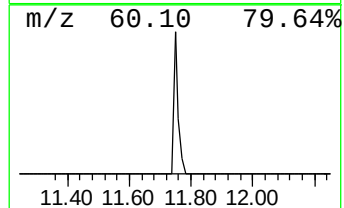
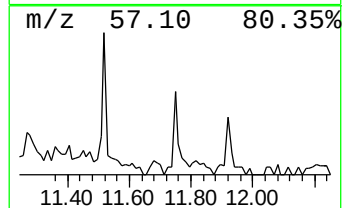
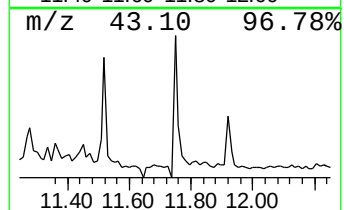
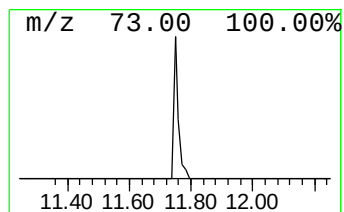
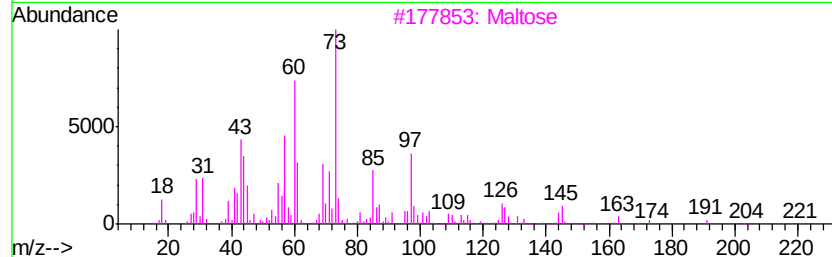
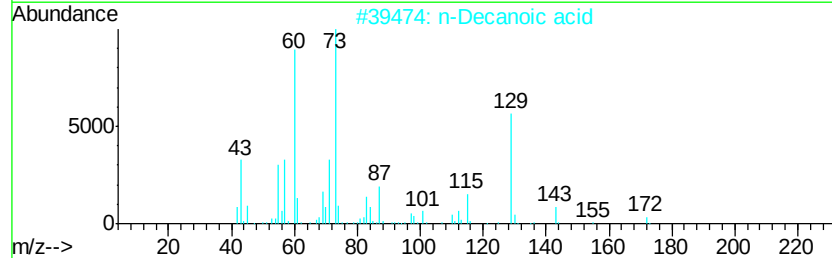
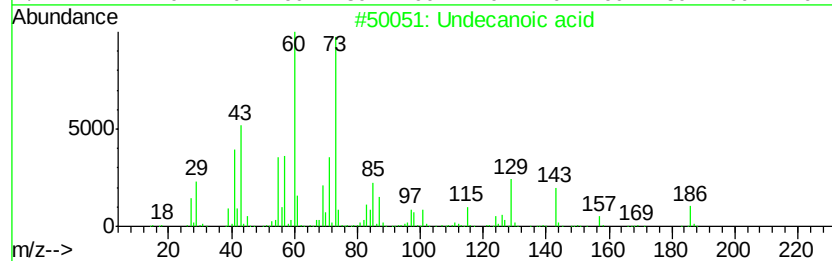
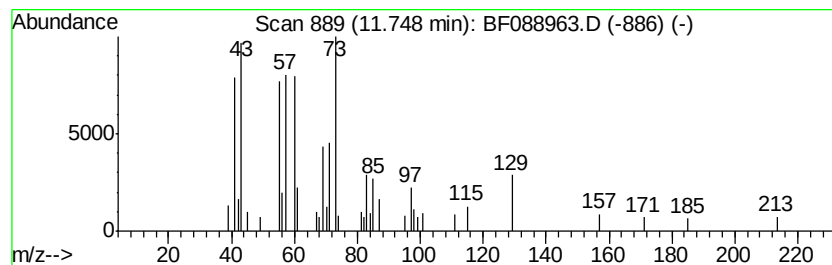
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Peak Number 7 Undecanoic acid Concentration Rank 9

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 11.75 | 2.50 ng | 59261 | Phenanthrene-d10 | 11.20 |

| Hit# of 5 | Tentative ID                      | MW  | MolForm   | CAS#         | Qual |
|-----------|-----------------------------------|-----|-----------|--------------|------|
| 1         | Undecanoic acid                   | 186 | C11H22O2  | 000112-37-8  | 59   |
| 2         | n-Decanoic acid                   | 172 | C10H20O2  | 000334-48-5  | 53   |
| 3         | Maltose                           | 342 | C12H22O11 | 000069-79-4  | 43   |
| 4         | 1-Decanol, 2-hexyl-               | 242 | C16H34O   | 002425-77-6  | 25   |
| 5         | Oxalic acid, dodecyl propyl ester | 300 | C17H32O4  | 1000309-26-5 | 22   |



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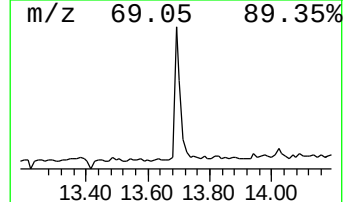
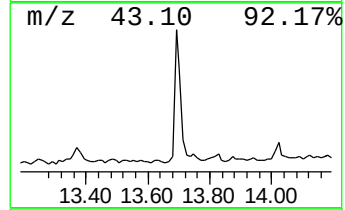
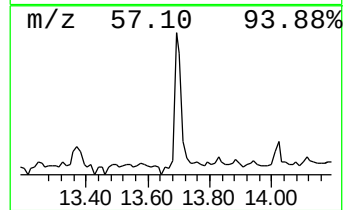
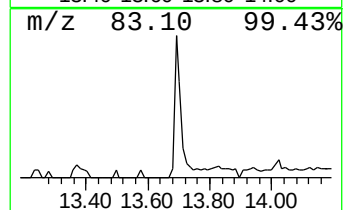
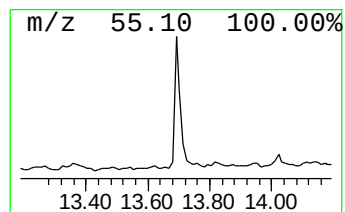
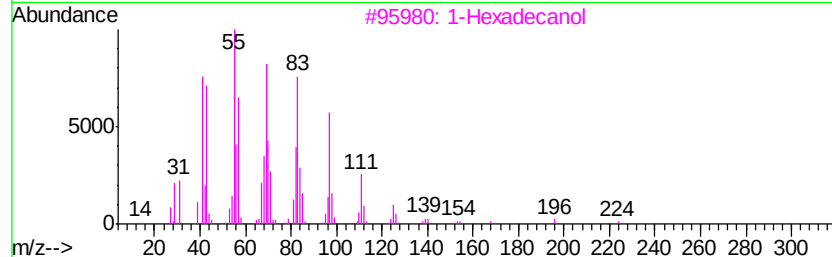
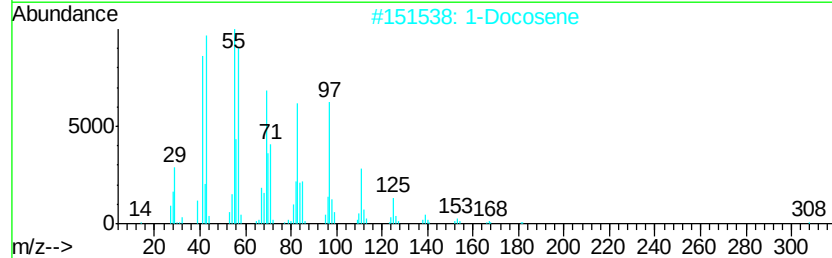
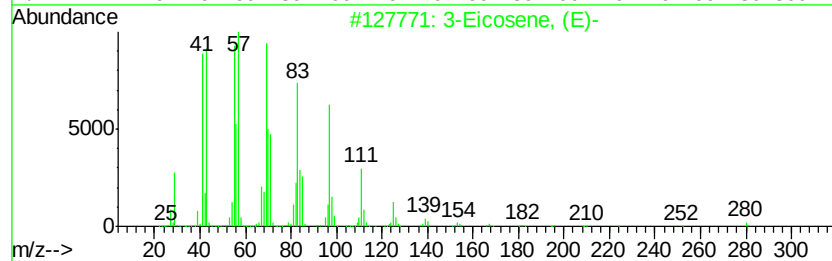
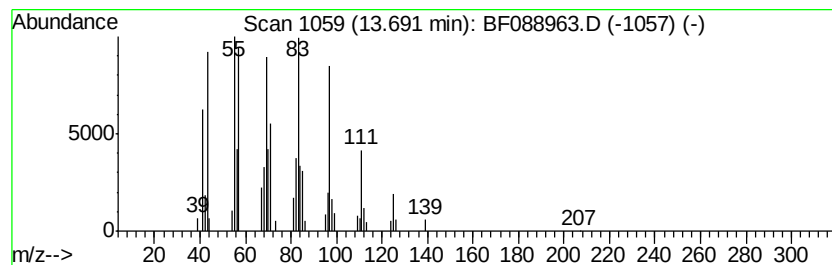
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Peak Number 8 3-Eicosene, (E)- Concentration Rank 6

| R.T.      | EstConc          | Area   | Relative to ISTD | R.T.        |      |
|-----------|------------------|--------|------------------|-------------|------|
| 13.69     | 5.80 ng          | 101431 | Chrysene-d12     | 13.83       |      |
| Hit# of 5 | Tentative ID     | MW     | MolForm          | CAS#        | Qual |
| 1         | 3-Eicosene, (E)- | 280    | C20H40           | 074685-33-9 | 91   |
| 2         | 1-Docosene       | 308    | C22H44           | 001599-67-3 | 81   |
| 3         | 1-Hexadecanol    | 242    | C16H34O          | 036653-82-4 | 68   |
| 4         | 5-Eicosene, (E)- | 280    | C20H40           | 074685-30-6 | 58   |
| 5         | 1-Hexacosanol    | 382    | C26H54O          | 000506-52-5 | 58   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071316\  
Data File : BF088963.D  
Acq On : 13 Jul 2016 17:42  
Operator : UM/SJ  
Sample : H3980-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
C4.1-08

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

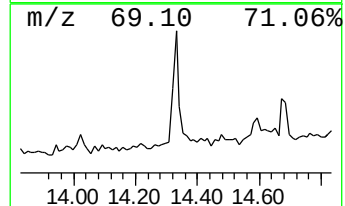
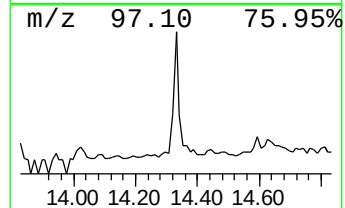
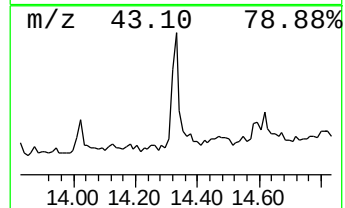
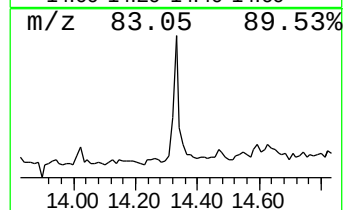
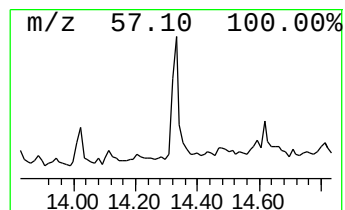
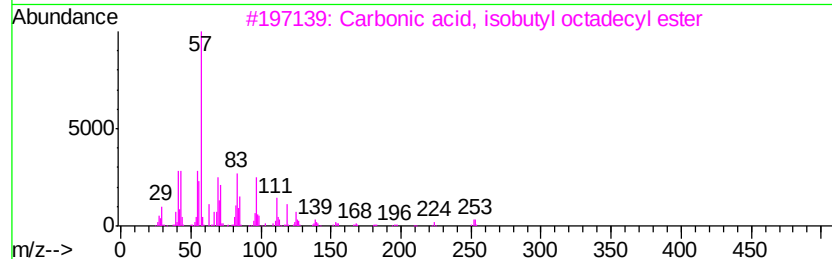
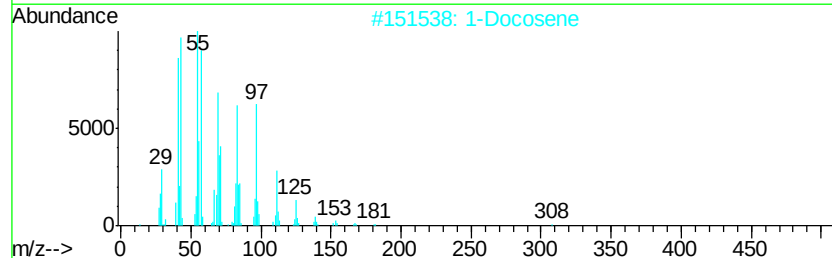
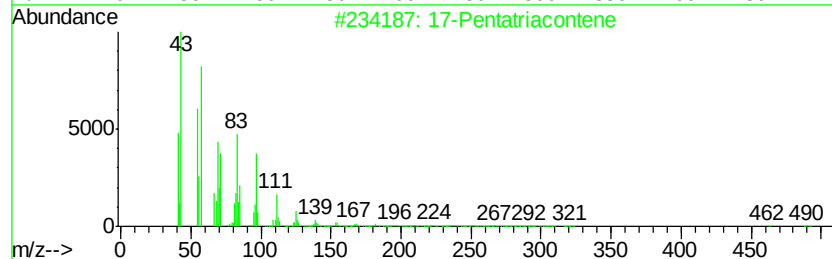
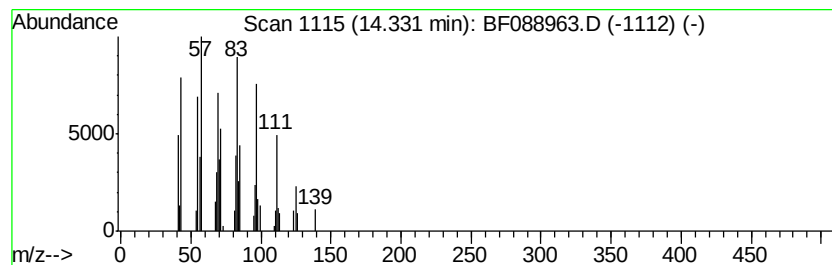
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 17-Pentatriacontene Concentration Rank 7

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.33 | 3.00 ng | 52537 | Chrysene-d12     | 13.83 |

| Hit# of | 5                                    | Tentative ID | MW  | MolForm  | CAS#         | Qual |
|---------|--------------------------------------|--------------|-----|----------|--------------|------|
| 1       | 17-Pentatriacontene                  |              | 491 | C35H70   | 006971-40-0  | 91   |
| 2       | 1-Docosene                           |              | 308 | C22H44   | 001599-67-3  | 90   |
| 3       | Carbonic acid, isobutyl octadecyl... |              | 370 | C23H46O3 | 1000314-61-5 | 87   |
| 4       | n-Tetracosanol-1                     |              | 354 | C24H50O  | 000506-51-4  | 86   |
| 5       | 1-Hexacosanol                        |              | 382 | C26H54O  | 000506-52-5  | 86   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071316\  
Data File : BF088963.D  
Acq On : 13 Jul 2016 17:42  
Operator : UM/SJ  
Sample : H3980-05  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
C4.1-08

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | ---Internal Standard--- |       |        |      |
|----------------------|-------|---------|-------|----------|-------------------------|-------|--------|------|
|                      |       |         |       |          | #                       | RT    | Resp   | Conc |
| 2-Pentanone, 4-hy... | 4.86  | 9.9     | ng    | 201198   | 1                       | 6.70  | 408239 | 20.0 |
| unknown6.47          | 6.47  | 102.9   | ng    | 2100120  | 1                       | 6.70  | 408239 | 20.0 |
| Eicosane, 10-methyl- | 10.65 | 2.9     | ng    | 68969    | 4                       | 11.20 | 474282 | 20.0 |
| Undecanoic acid      | 11.75 | 2.5     | ng    | 59261    | 4                       | 11.20 | 474282 | 20.0 |
| 3-Eicosene, (E)-     | 13.69 | 5.8     | ng    | 101431   | 5                       | 13.83 | 349800 | 20.0 |
| 17-Pentatriacontene  | 14.33 | 3.0     | ng    | 52537    | 5                       | 13.83 | 349800 | 20.0 |