

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF110216\  
 Data File : BF090985.D  
 Acq On : 2 Nov 2016 17:45  
 Operator : UM/SJ  
 Sample : H5509-02  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-91-24.5-25.0

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-BF102616.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         | 4.887       | 242           | 245         | 267          | rVB      | 672722         | 1150890       | 18.97%          | 2.733%        |
| 2         | 5.321       | 280           | 283         | 294          | rBV      | 3063694        | 3381530       | 55.74%          | 8.029%        |
| 3         | 6.373       | 372           | 375         | 377          | rBV      | 3952066        | 4265517       | 70.31%          | 10.128%       |
| 4         | 6.487       | 383           | 385         | 388          | rBV      | 3493679        | 4006776       | 66.05%          | 9.514%        |
| 5         | 6.716       | 403           | 405         | 410          | rBV      | 926550         | 1028242       | 16.95%          | 2.442%        |
| 6         | 6.876       | 417           | 419         | 421          | rVV      | 3524233        | 3288074       | 54.20%          | 7.807%        |
| 7         | 7.287       | 452           | 455         | 458          | rBV      | 2163271        | 2465897       | 40.65%          | 5.855%        |
| 8         | 7.402       | 462           | 465         | 472          | rVB      | 86028          | 176671        | 2.91%           | 0.420%        |
| 9         | 8.007       | 516           | 518         | 520          | rBV      | 1567861        | 1469638       | 24.23%          | 3.490%        |
| 10        | 9.093       | 609           | 613         | 615          | rBV      | 5261527        | 6066549       | 100.00%         | 14.405%       |
| 11        | 9.482       | 645           | 647         | 650          | rBV      | 1169779        | 1632042       | 26.90%          | 3.875%        |
| 12        | 9.756       | 669           | 671         | 674          | rBV      | 1236666        | 1644932       | 27.11%          | 3.906%        |
| 13        | 10.202      | 709           | 710         | 712          | rVB      | 115056         | 90086         | 1.48%           | 0.214%        |
| 14        | 10.556      | 738           | 741         | 743          | rBV      | 2887370        | 3143376       | 51.81%          | 7.464%        |
| 15        | 10.682      | 750           | 752         | 756          | rVB2     | 72770          | 131205        | 2.16%           | 0.312%        |
| 16        | 11.242      | 799           | 801         | 805          | rBV      | 1443113        | 1293383       | 21.32%          | 3.071%        |
| 17        | 11.791      | 846           | 849         | 853          | rBV2     | 52059          | 89650         | 1.48%           | 0.213%        |
| 18        | 12.831      | 937           | 940         | 943          | rBV      | 3895121        | 4391406       | 72.39%          | 10.427%       |
| 19        | 13.379      | 986           | 988         | 994          | rVB2     | 63191          | 70437         | 1.16%           | 0.167%        |
| 20        | 13.734      | 1016          | 1019        | 1024         | rBV      | 226793         | 296430        | 4.89%           | 0.704%        |
| 21        | 13.871      | 1029          | 1031        | 1034         | rVV      | 729921         | 1060280       | 17.48%          | 2.518%        |
| 22        | 14.728      | 1103          | 1106        | 1107         | rBV      | 55013          | 76353         | 1.26%           | 0.181%        |
| 23        | 15.277      | 1151          | 1154        | 1161         | rVB      | 583343         | 895112        | 14.75%          | 2.125%        |

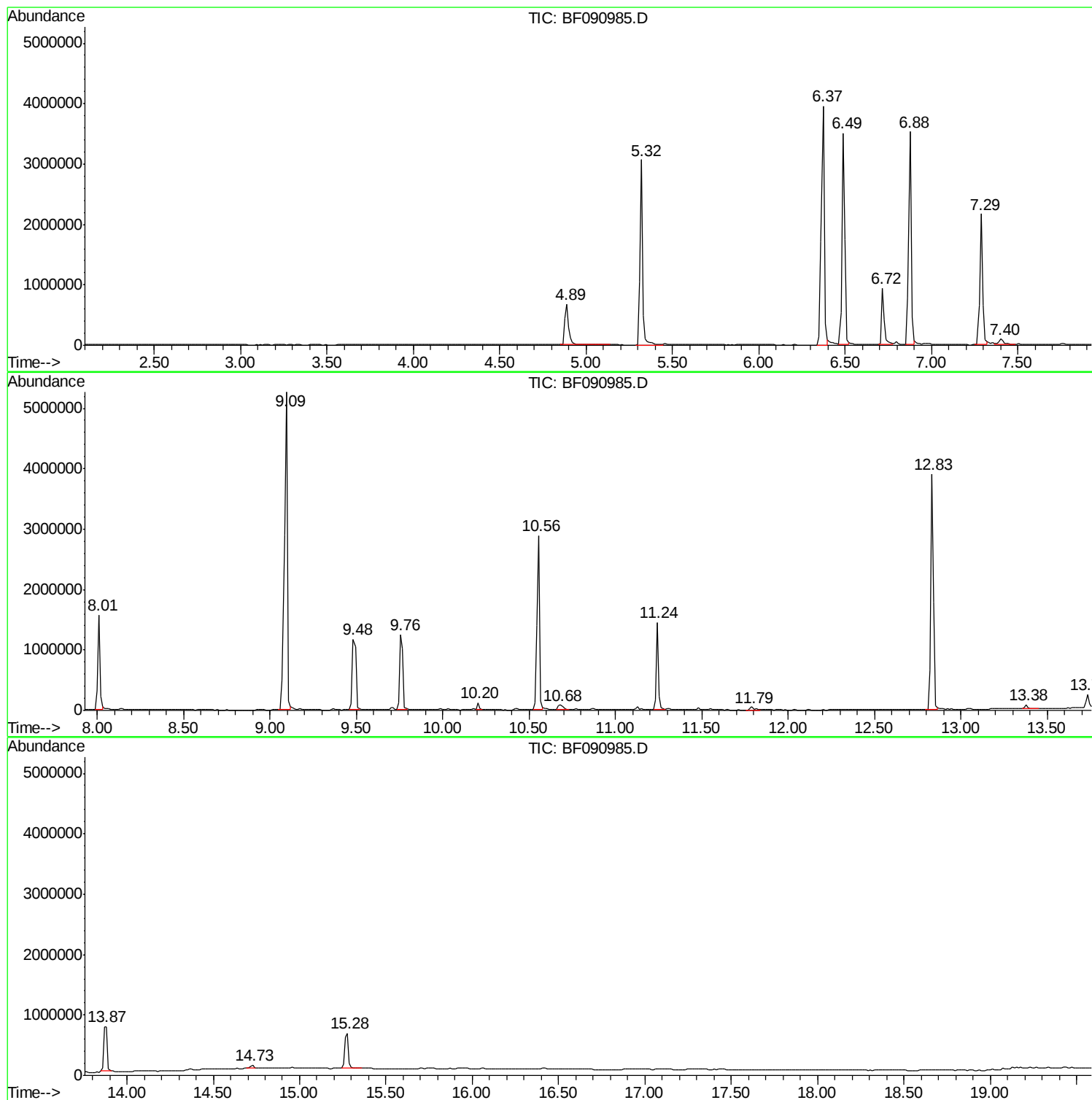
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ClientSampleId :  
SB-91-24.5-25.0

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102616.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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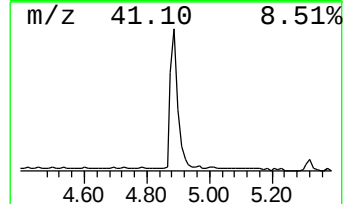
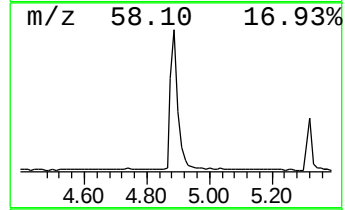
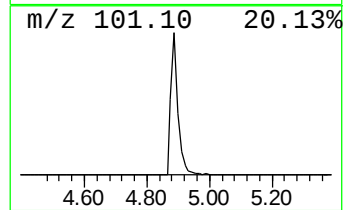
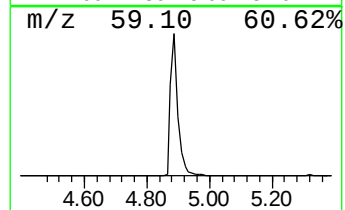
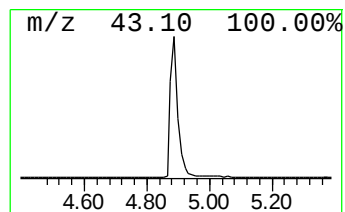
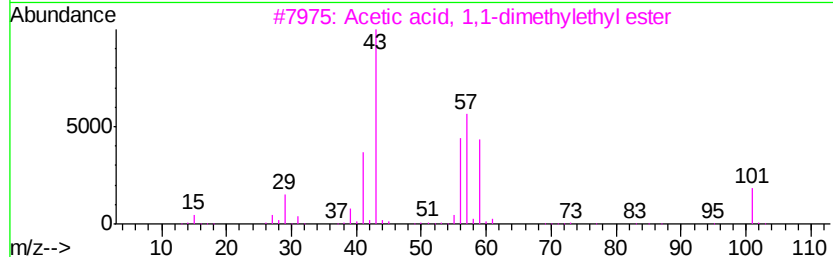
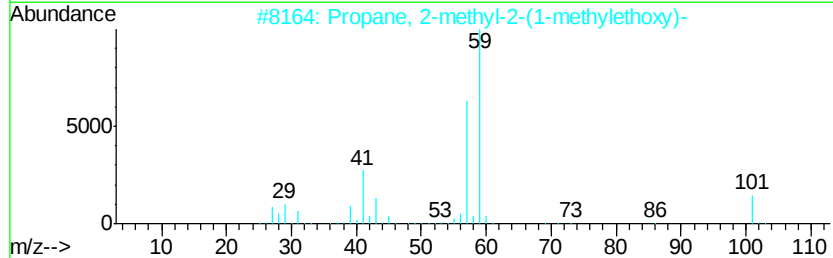
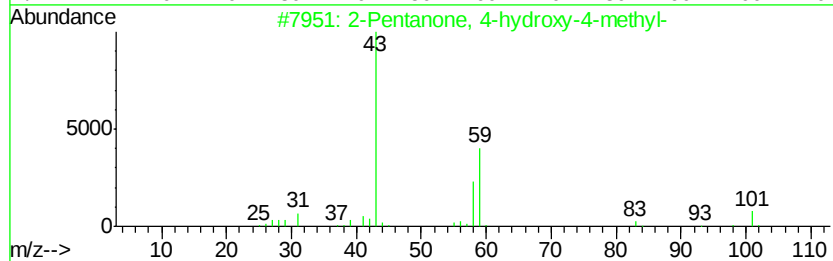
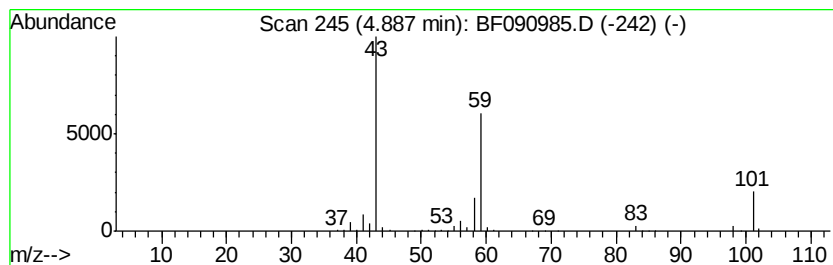
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 4.89 | 22.39 ng | 1150890 | 1,4-Dichlorobenzene-d4 | 6.72 |

| 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 | 42   |
| 3    |    | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2  | 000540-88-5 | 39   |
| 4    |    | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 5    |    | Morpholine, 4-methyl-               | 101 | C5H11NO  | 000109-02-4 | 9    |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

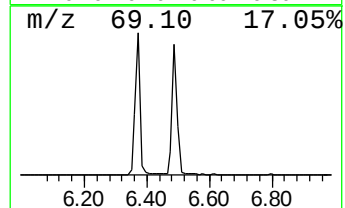
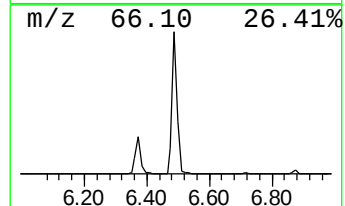
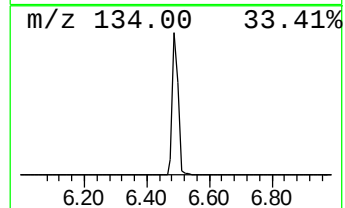
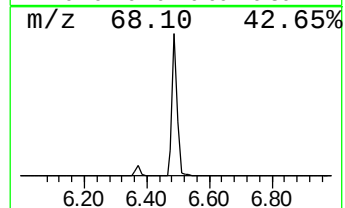
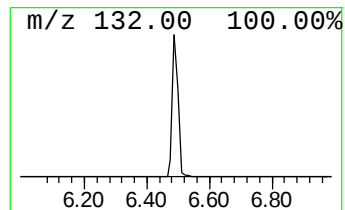
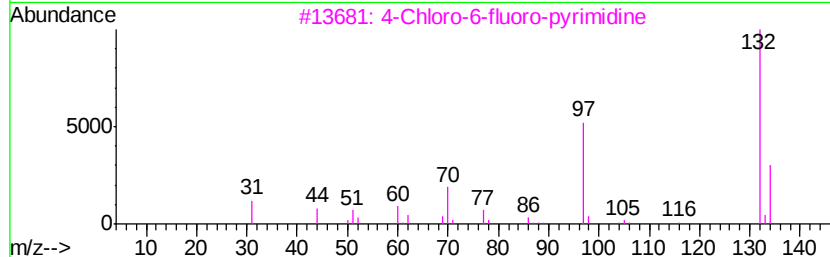
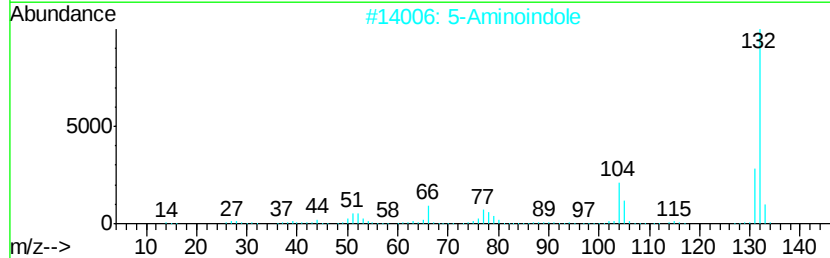
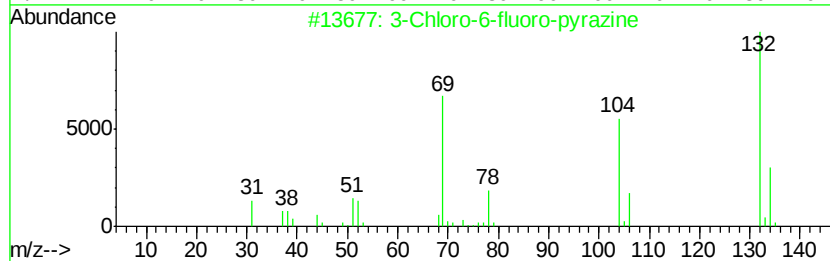
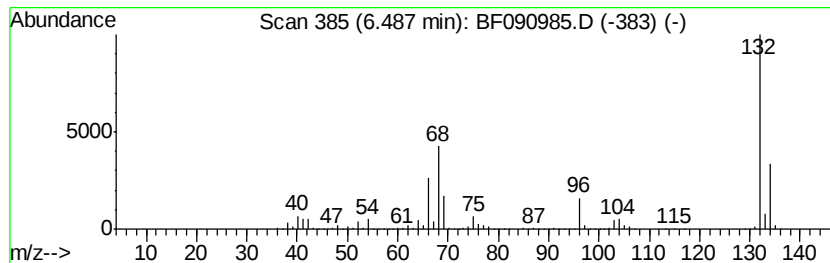
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.49 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.49 | 77.93 ng | 4006780 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# | of | Tentative ID                   | MW  | MolForm   | CAS#         | Qual |
|------|----|--------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine     | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 2    |    | 5-Aminoindole                  | 132 | C8H8N2    | 005192-03-0  | 12   |
| 3    |    | 4-Chloro-6-fluoro-pyrimidine   | 132 | C4H2ClFN2 | 051422-01-6  | 9    |
| 4    |    | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2    | 064608-59-9  | 9    |
| 5    |    | 4-Chloro-2-fluoro-pyrimidine   | 132 | C4H2ClFN2 | 051422-00-5  | 9    |



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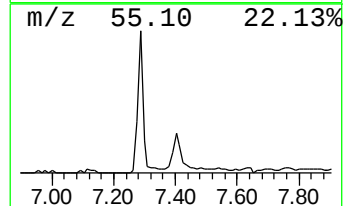
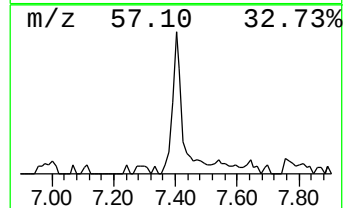
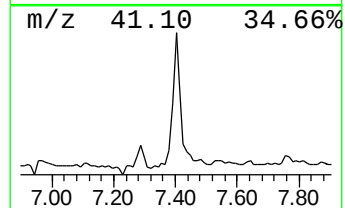
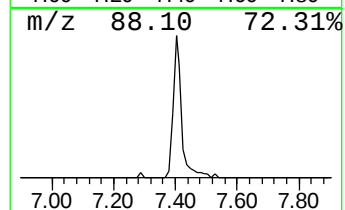
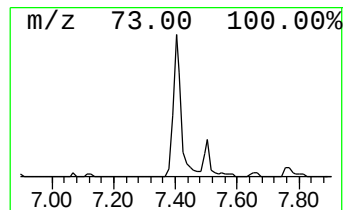
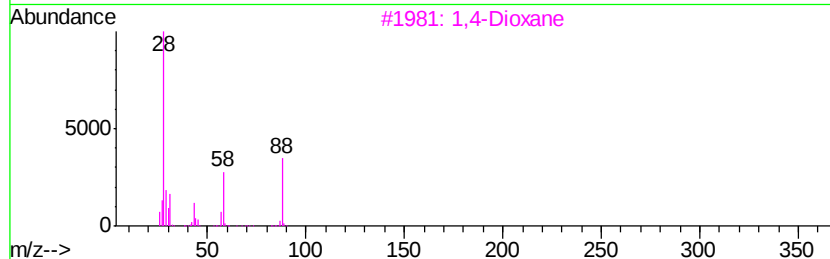
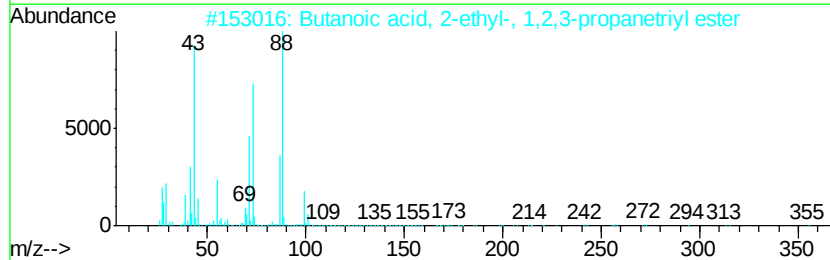
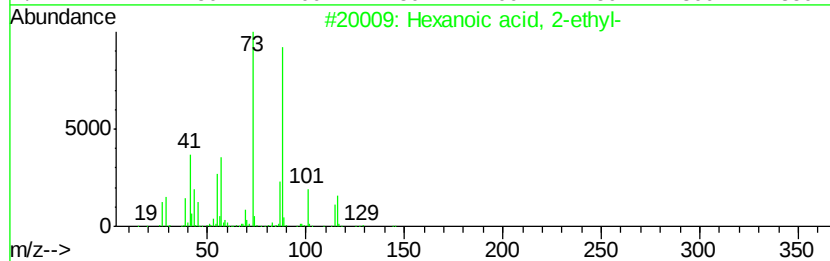
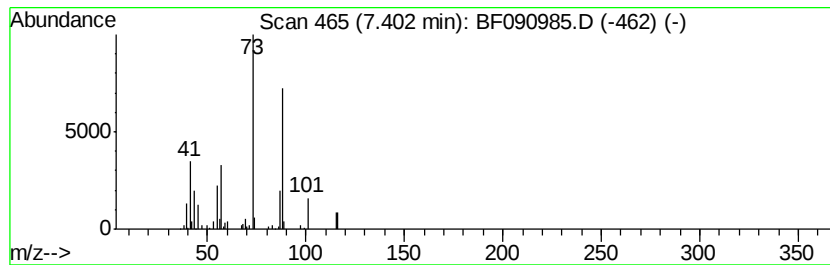
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Peak Number 4 Hexanoic acid, 2-ethyl- Concentration Rank 5

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 7.40 | 2.40 ng | 176671 | Naphthalene-d8   | 8.01 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexanoic acid, 2-ethyl-             | 144 | C8H16O2  | 000149-57-5 | 78   |
| 2    |    | Butanoic acid, 2-ethyl-, 1,2,3-p... | 386 | C21H38O6 | 056554-54-2 | 45   |
| 3    |    | 1,4-Dioxane                         | 88  | C4H8O2   | 000123-91-1 | 35   |
| 4    |    | Methyl 2,3,4-tri-O-methyl-6-deox... | 220 | C10H20O5 | 072983-16-5 | 28   |
| 5    |    | Methyl L-(+)-.beta.-hydroxyisobu... | 118 | C5H10O3  | 080657-57-4 | 23   |



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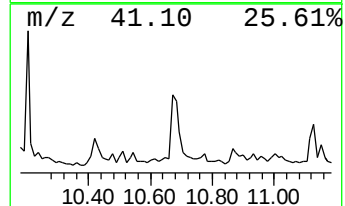
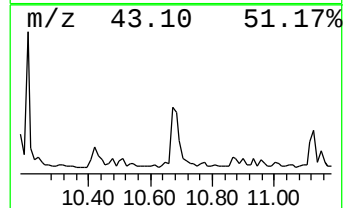
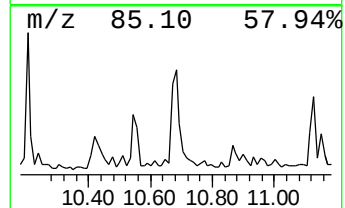
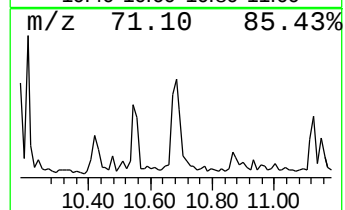
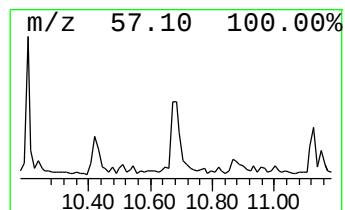
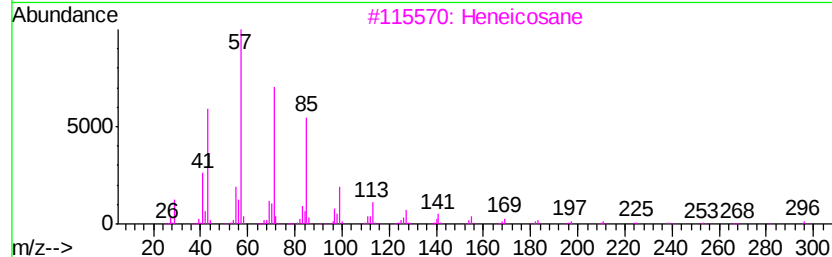
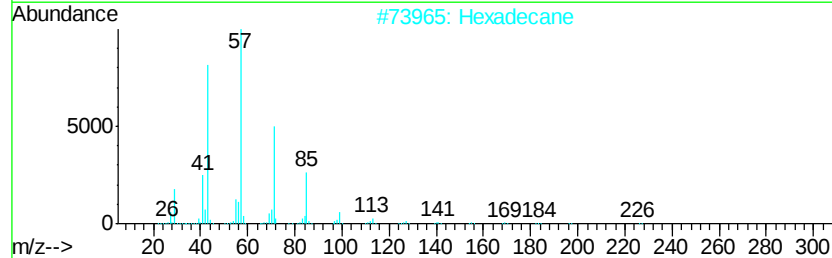
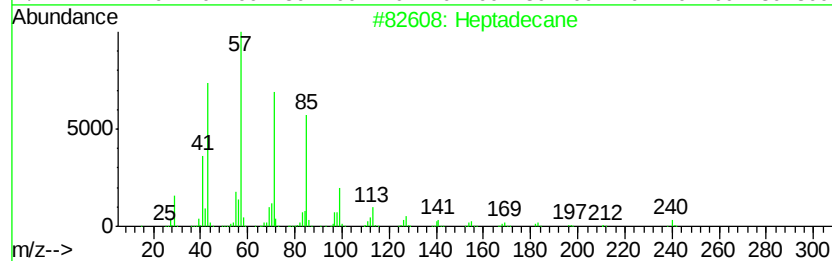
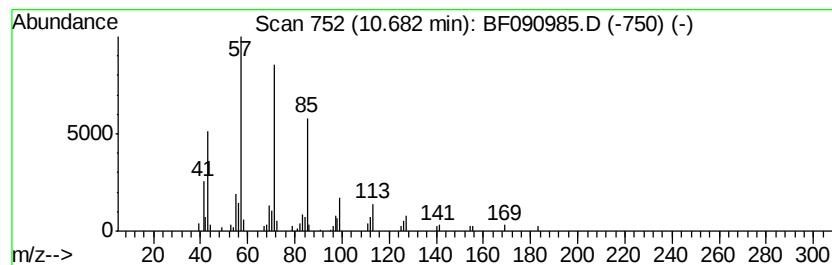
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 Heptadecane Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.68 | 2.03 ng | 131205 | Phenanthrene-d10 | 11.24 |

| Hit# of | 5                | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------------|--------------|-----|---------|-------------|------|
| 1       | Heptadecane      |              | 240 | C17H36  | 000629-78-7 | 91   |
| 2       | Hexadecane       |              | 226 | C16H34  | 000544-76-3 | 91   |
| 3       | Heneicosane      |              | 296 | C21H44  | 000629-94-7 | 91   |
| 4       | Octadecane       |              | 254 | C18H38  | 000593-45-3 | 86   |
| 5       | Tetratriacontane |              | 479 | C34H70  | 014167-59-0 | 86   |



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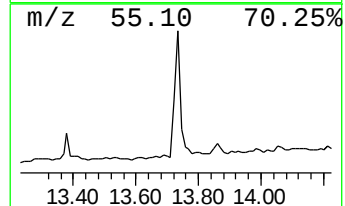
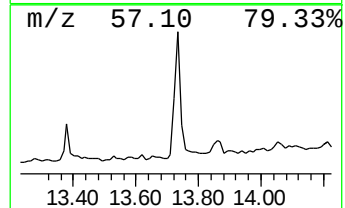
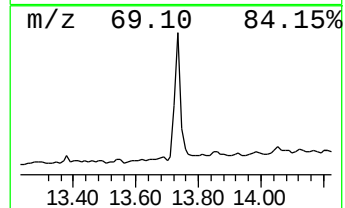
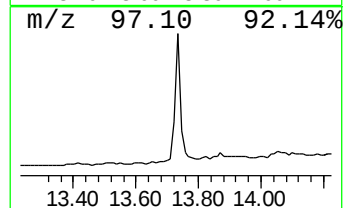
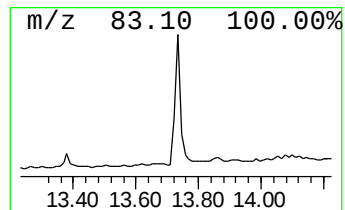
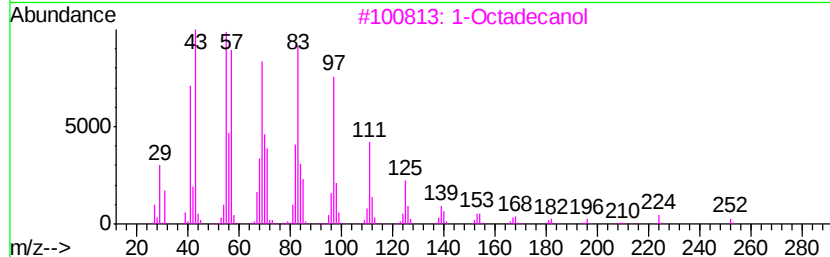
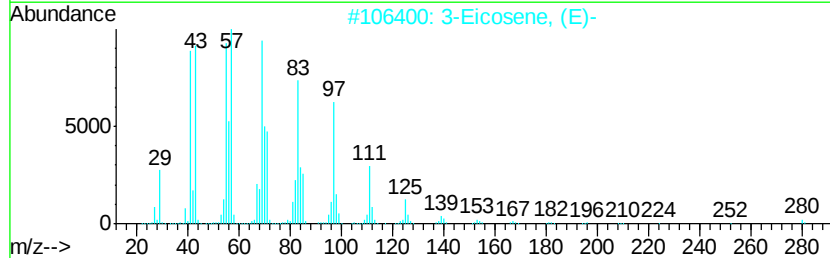
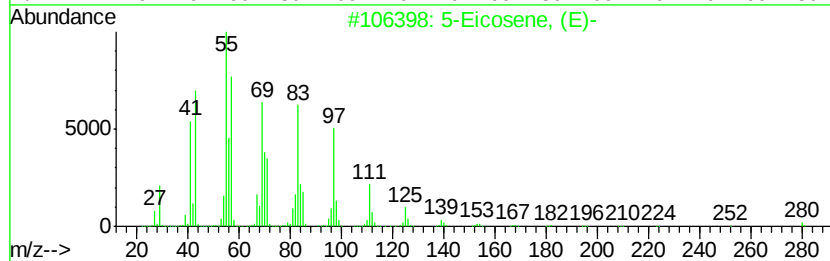
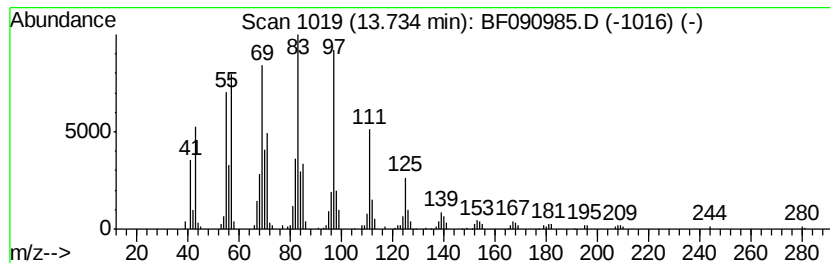
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Peak Number 6 5-Eicosene, (E)- Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.73 | 5.59 ng | 296430 | Chrysene-d12     | 13.88 |

| Hit# of | 5                                    | Tentative ID | MW  | MolForm     | CAS#        | Qual |
|---------|--------------------------------------|--------------|-----|-------------|-------------|------|
| 1       | 5-Eicosene, (E)-                     |              | 280 | C20H40      | 074685-30-6 | 99   |
| 2       | 3-Eicosene, (E)-                     |              | 280 | C20H40      | 074685-33-9 | 91   |
| 3       | 1-Octadecanol                        |              | 270 | C18H38O     | 000112-92-5 | 91   |
| 4       | Trichloroacetic acid, tetradecyl...  |              | 358 | C16H29Cl3O2 | 074339-52-9 | 91   |
| 5       | Trifluoroacetic acid, n-octadecyl... |              | 366 | C20H37F3O2  | 079392-43-1 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF110216\  
Data File : BF090985.D  
Acq On : 2 Nov 2016 17:45  
Operator : UM/SJ  
Sample : H5509-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-91-24.5-25.0

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF102616.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... | 4.89  | 22.4    | ng    | 1150890  | 1                     | 6.72  | 1028240 | 20.0 |
| unknown6.49          | 6.49  | 77.9    | ng    | 4006780  | 1                     | 6.72  | 1028240 | 20.0 |
| Hexanoic acid, 2-... | 7.40  | 2.4     | ng    | 176671   | 2                     | 8.01  | 1469640 | 20.0 |
| Heptadecane          | 10.68 | 2.0     | ng    | 131205   | 4                     | 11.24 | 1293380 | 20.0 |
| 5-Eicosene, (E)-     | 13.73 | 5.6     | ng    | 296430   | 5                     | 13.88 | 1060280 | 20.0 |