

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF020516\  
 Data File : BF084880.D  
 Acq On : 6 Feb 2016 00:42  
 Operator : SJ/IZ  
 Sample : H1311-07 5X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUP-B017(5-7)

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-BF020116.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         | 4.784       | 234           | 236         | 241          | rVB      | 178486         | 190041        | 12.83%          | 1.234%        |
| 2         | 5.241       | 273           | 276         | 281          | rBV      | 555865         | 536229        | 36.20%          | 3.481%        |
| 3         | 6.304       | 367           | 369         | 371          | rBV      | 817775         | 674764        | 45.55%          | 4.381%        |
| 4         | 6.419       | 377           | 379         | 382          | rVB      | 468294         | 624494        | 42.16%          | 4.054%        |
| 5         | 6.659       | 397           | 400         | 402          | rBV      | 1303616        | 1080699       | 72.95%          | 7.016%        |
| 6         | 6.807       | 412           | 413         | 416          | rVB      | 417459         | 508368        | 34.32%          | 3.300%        |
| 7         | 7.230       | 447           | 450         | 452          | rBV      | 304331         | 398280        | 26.89%          | 2.586%        |
| 8         | 7.950       | 510           | 513         | 515          | rBV      | 1432658        | 1433172       | 96.75%          | 9.304%        |
| 9         | 9.025       | 604           | 607         | 609          | rBV      | 937986         | 766098        | 51.72%          | 4.973%        |
| 10        | 9.425       | 640           | 642         | 644          | rBV      | 83713          | 69684         | 4.70%           | 0.452%        |
| 11        | 9.642       | 657           | 661         | 663          | rBV      | 30549          | 35473         | 2.39%           | 0.230%        |
| 12        | 9.699       | 663           | 666         | 668          | rBV      | 1468313        | 1481379       | 100.00%         | 9.617%        |
| 13        | 9.973       | 688           | 690         | 695          | rBV3     | 12816          | 24276         | 1.64%           | 0.158%        |
| 14        | 10.145      | 703           | 705         | 706          | rVB      | 29668          | 27581         | 1.86%           | 0.179%        |
| 15        | 10.362      | 722           | 724         | 725          | rBV      | 14947          | 18366         | 1.24%           | 0.119%        |
| 16        | 10.476      | 732           | 734         | 737          | rBV      | 321076         | 303443        | 20.48%          | 1.970%        |
| 17        | 10.613      | 742           | 746         | 749          | rBV      | 47242          | 61685         | 4.16%           | 0.400%        |
| 18        | 10.808      | 758           | 763         | 767          | rBV6     | 7046           | 22884         | 1.54%           | 0.149%        |
| 19        | 11.059      | 781           | 785         | 787          | rBV      | 34169          | 54586         | 3.68%           | 0.354%        |
| 20        | 11.173      | 793           | 795         | 796          | rBV      | 1704961        | 1442764       | 97.39%          | 9.366%        |
| 21        | 11.196      | 796           | 797         | 799          | rVV      | 156535         | 115112        | 7.77%           | 0.747%        |
| 22        | 11.242      | 799           | 801         | 803          | rVB      | 22322          | 29601         | 2.00%           | 0.192%        |
| 23        | 11.413      | 813           | 816         | 820          | rBV6     | 8790           | 17823         | 1.20%           | 0.116%        |
| 24        | 11.482      | 820           | 822         | 827          | rVB2     | 16832          | 27363         | 1.85%           | 0.178%        |
| 25        | 11.676      | 837           | 839         | 840          | rBV      | 26371          | 23868         | 1.61%           | 0.155%        |
| 26        | 11.699      | 840           | 841         | 844          | rVB      | 40836          | 33238         | 2.24%           | 0.216%        |
| 27        | 11.779      | 847           | 848         | 853          | rVB      | 51072          | 74065         | 5.00%           | 0.481%        |
| 28        | 11.973      | 862           | 865         | 866          | rBV3     | 22534          | 26959         | 1.82%           | 0.175%        |
| 29        | 12.122      | 874           | 878         | 879          | rBV3     | 9540           | 17472         | 1.18%           | 0.113%        |
| 30        | 12.168      | 881           | 882         | 885          | rVB2     | 13693          | 16324         | 1.10%           | 0.106%        |
| 31        | 12.225      | 885           | 887         | 888          | rBV      | 27164          | 33849         | 2.28%           | 0.220%        |
| 32        | 12.259      | 888           | 890         | 893          | rVB3     | 56952          | 76718         | 5.18%           | 0.498%        |
| 33        | 12.305      | 893           | 894         | 898          | rVB2     | 23823          | 25659         | 1.73%           | 0.167%        |
| 34        | 12.373      | 898           | 900         | 903          | rBV      | 149521         | 168217        | 11.36%          | 1.092%        |

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 ClientSampleId :  
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 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020116.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.431 | 903  | 905  | 911  | rVB6 | 13520   | 28448   | 1.92%  | 0.185% |
| 36 | 12.522 | 911  | 913  | 917  | rBV4 | 7569    | 22395   | 1.51%  | 0.145% |
| 37 | 12.602 | 917  | 920  | 923  | rBV  | 250395  | 254365  | 17.17% | 1.651% |
| 38 | 12.648 | 923  | 924  | 928  | rVB4 | 16388   | 23554   | 1.59%  | 0.153% |
| 39 | 12.751 | 931  | 933  | 936  | rVB  | 499326  | 603670  | 40.75% | 3.919% |
| 40 | 12.831 | 937  | 940  | 941  | rBV2 | 22057   | 30680   | 2.07%  | 0.199% |
| 41 | 12.876 | 941  | 944  | 946  | rBV2 | 19150   | 24986   | 1.69%  | 0.162% |
| 42 | 12.934 | 946  | 949  | 952  | rVB  | 30558   | 47231   | 3.19%  | 0.307% |
| 43 | 13.002 | 953  | 955  | 956  | rBV  | 22165   | 16911   | 1.14%  | 0.110% |
| 44 | 13.036 | 956  | 958  | 962  | rVB  | 36173   | 46181   | 3.12%  | 0.300% |
| 45 | 13.139 | 964  | 967  | 969  | rBV  | 587773  | 781536  | 52.76% | 5.074% |
| 46 | 13.242 | 974  | 976  | 978  | rVB  | 20322   | 24123   | 1.63%  | 0.157% |
| 47 | 13.299 | 979  | 981  | 982  | rBV  | 21094   | 17915   | 1.21%  | 0.116% |
| 48 | 13.345 | 983  | 985  | 990  | rVB6 | 11005   | 24708   | 1.67%  | 0.160% |
| 49 | 13.436 | 991  | 993  | 996  | rBV3 | 12883   | 21461   | 1.45%  | 0.139% |
| 50 | 13.494 | 996  | 998  | 1000 | rBV  | 280145  | 248866  | 16.80% | 1.616% |
| 51 | 13.551 | 1001 | 1003 | 1008 | rVB4 | 45414   | 65014   | 4.39%  | 0.422% |
| 52 | 13.676 | 1010 | 1014 | 1018 | rVB2 | 30651   | 63502   | 4.29%  | 0.412% |
| 53 | 13.802 | 1022 | 1025 | 1027 | rBV  | 1201619 | 1199199 | 80.95% | 7.785% |
| 54 | 13.985 | 1037 | 1041 | 1044 | rBV5 | 16300   | 49292   | 3.33%  | 0.320% |
| 55 | 14.145 | 1053 | 1055 | 1057 | rBV  | 68584   | 73146   | 4.94%  | 0.475% |
| 56 | 14.191 | 1057 | 1059 | 1060 | rVV2 | 21806   | 24465   | 1.65%  | 0.159% |
| 57 | 14.282 | 1064 | 1067 | 1068 | rBV3 | 12093   | 25245   | 1.70%  | 0.164% |
| 58 | 14.591 | 1091 | 1094 | 1098 | rBV5 | 18942   | 33819   | 2.28%  | 0.220% |
| 59 | 14.648 | 1098 | 1099 | 1102 | rBV2 | 14341   | 20877   | 1.41%  | 0.136% |
| 60 | 14.797 | 1109 | 1112 | 1117 | rBV  | 61533   | 123233  | 8.32%  | 0.800% |
| 61 | 14.888 | 1118 | 1120 | 1122 | rVB  | 21824   | 23346   | 1.58%  | 0.152% |
| 62 | 15.059 | 1133 | 1135 | 1138 | rVB  | 38514   | 43967   | 2.97%  | 0.285% |
| 63 | 15.117 | 1138 | 1140 | 1142 | rBV  | 51978   | 65327   | 4.41%  | 0.424% |
| 64 | 15.174 | 1142 | 1145 | 1147 | rBV  | 641725  | 858767  | 57.97% | 5.575% |
| 65 | 16.442 | 1253 | 1256 | 1259 | rVV2 | 16111   | 27155   | 1.83%  | 0.176% |
| 66 | 16.522 | 1261 | 1263 | 1266 | rVB2 | 12237   | 24152   | 1.63%  | 0.157% |
| 67 | 16.820 | 1287 | 1289 | 1293 | rVB  | 15643   | 25715   | 1.74%  | 0.167% |

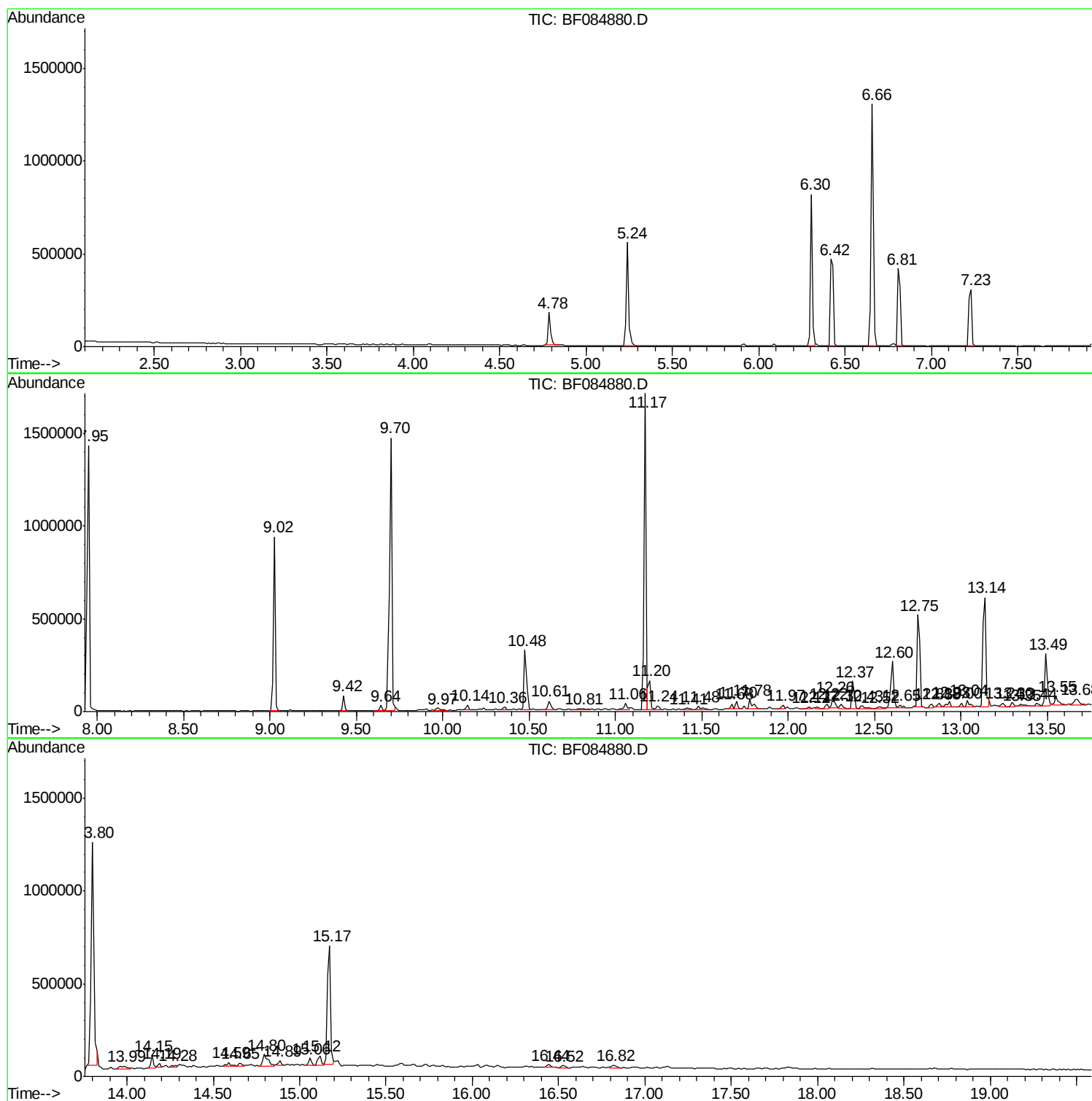
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BNA\_F  
ClientSampleId :  
SUP-B017(5-7)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020116.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\BF020516\  
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ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
SUP-B017(5-7)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

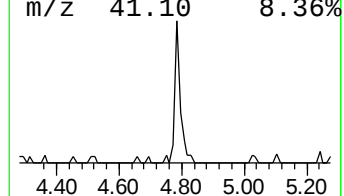
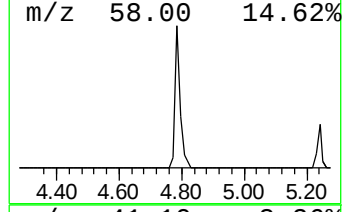
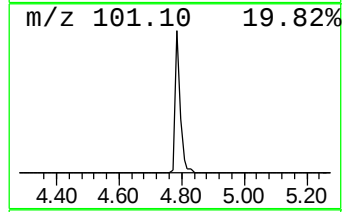
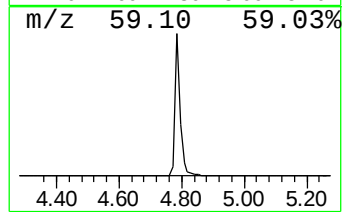
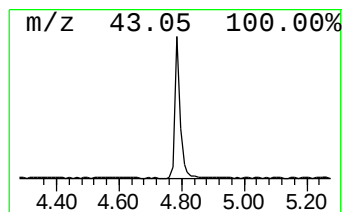
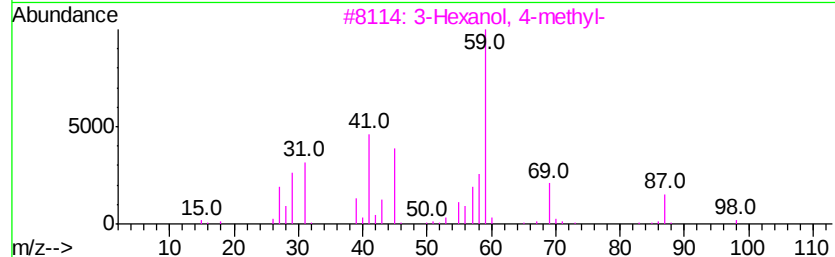
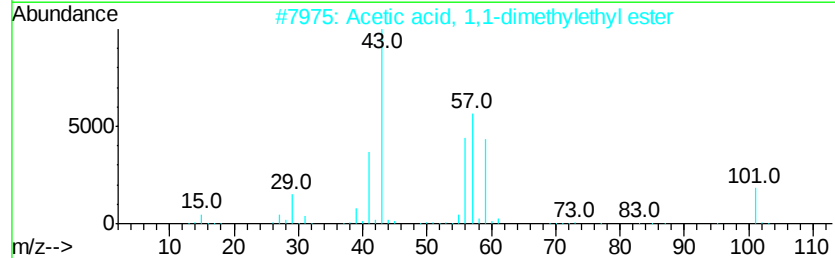
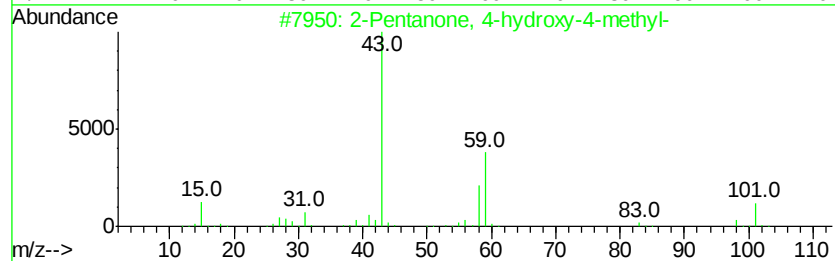
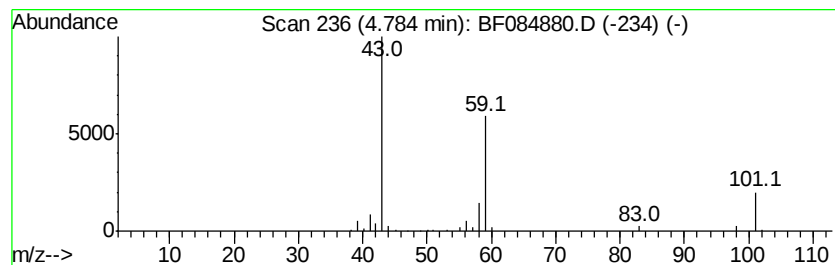
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 4.78 | 3.52 ng | 190041 | 1,4-Dichlorobenzene-d4 | 6.66 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 56   |
| 2    |    | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2  | 000540-88-5 | 39   |
| 3    |    | 3-Hexanol, 4-methyl-                | 116 | C7H16O   | 000615-29-2 | 28   |
| 4    |    | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17   |
| 5    |    | 2,3-Butanedione, monooxime          | 101 | C4H7NO2  | 000057-71-6 | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

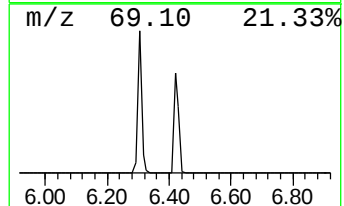
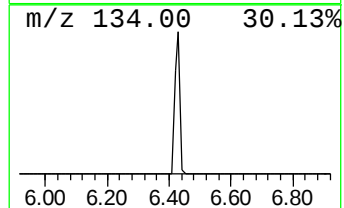
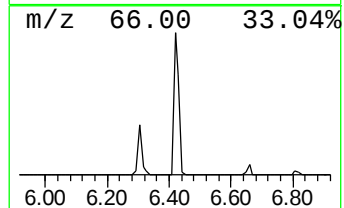
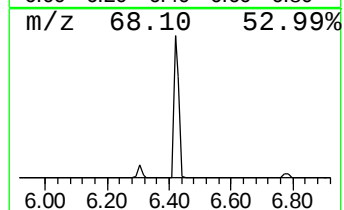
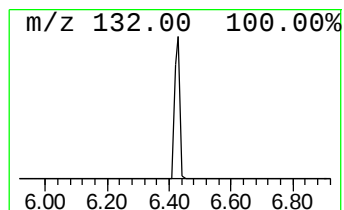
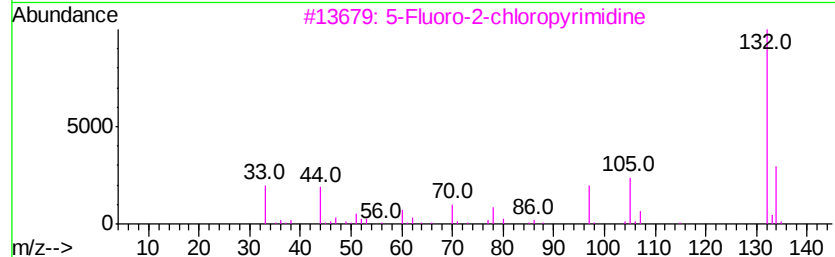
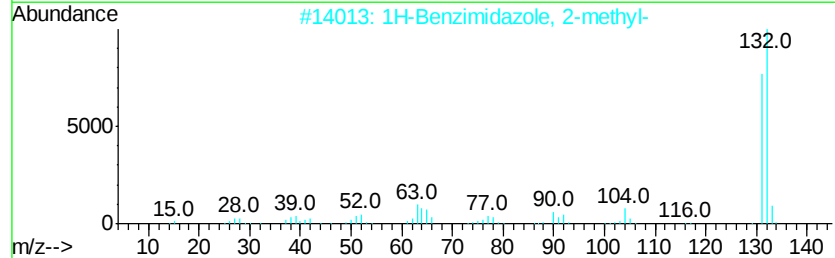
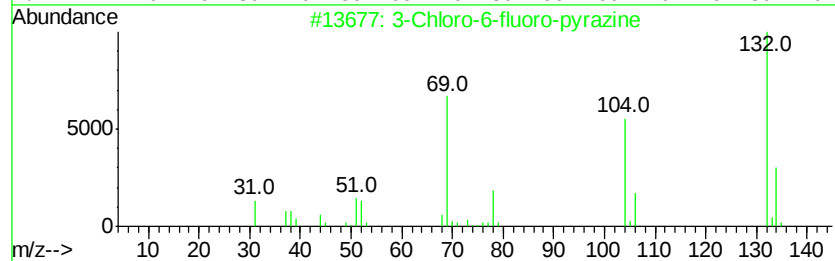
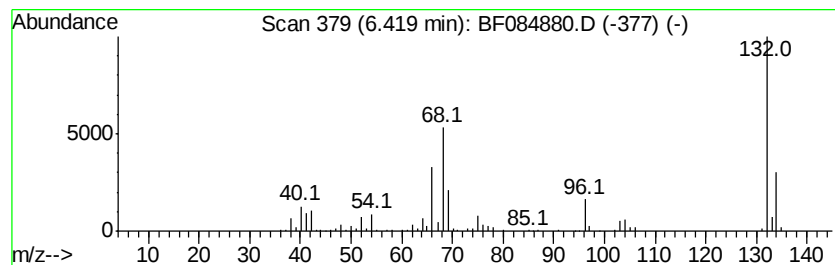
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown6.42 Concentration Rank 2

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.42 | 11.56 ng | 624494 | 1,4-Dichlorobenzene-d4 | 6.66 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|---|----------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    |   | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 22   |
| 3    |    |   | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 12   |
| 4    |    |   | 2-Cyclohexen-1-one               | 96  | C6H8O     | 000930-68-7  | 10   |
| 5    |    |   | (5-METHYL-2-PYRIDYL)ACETONITRILE | 132 | C8H8N2    | 1000241-93-9 | 10   |



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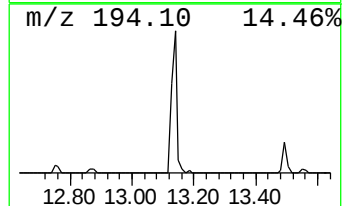
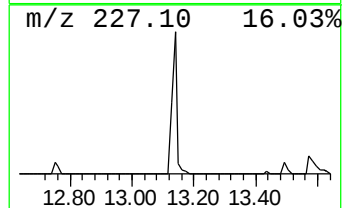
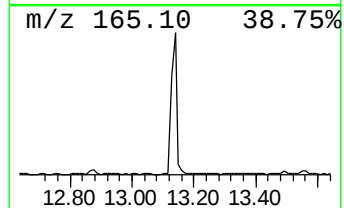
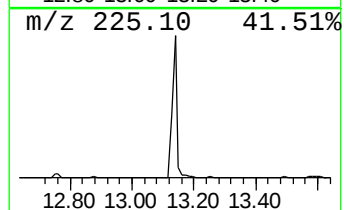
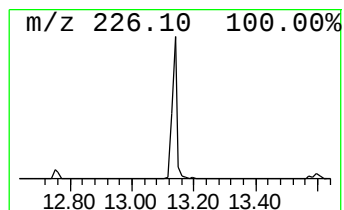
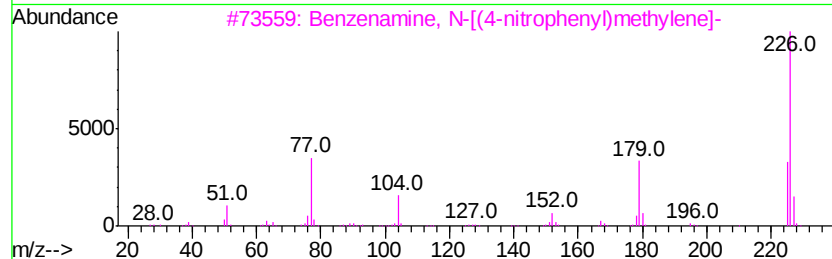
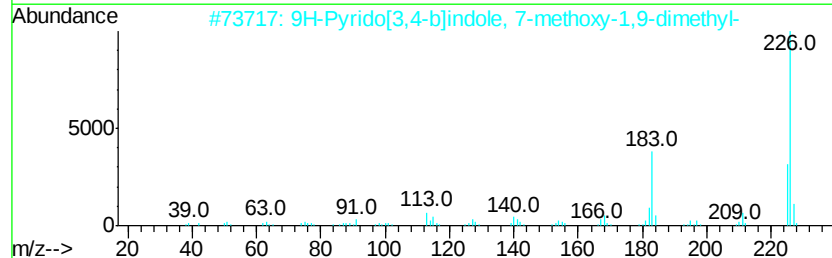
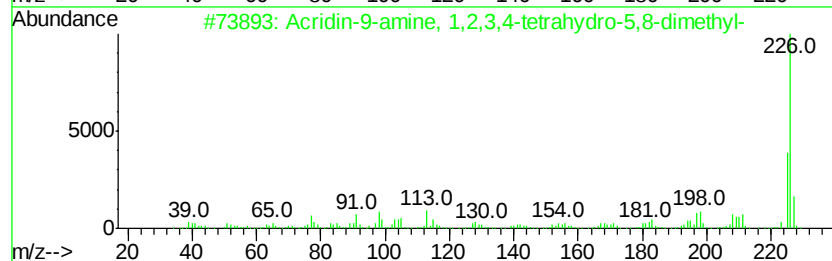
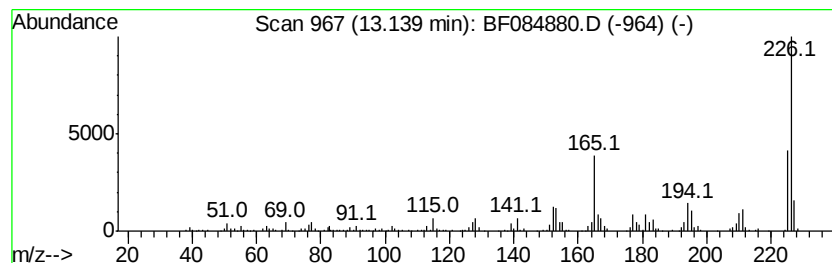
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Acridin-9-amine, 1,2,3,4-te... Concentration Rank 1

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 13.14 | 13.03 ng | 781536 | Chrysene-d12     | 13.80 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|---------|---|-------------------------------------|-----|------------|-------------|------|
| 1       |   | Acridin-9-amine, 1,2,3,4-tetrahy... | 226 | C15H18N2   | 297758-19-1 | 70   |
| 2       |   | 9H-Pyrido[3,4-b]indole, 7-methox... | 226 | C14H14N2O  | 143502-37-8 | 49   |
| 3       |   | Benzenamine, N-[(4-nitrophenyl)m... | 226 | C13H10N2O2 | 000785-80-8 | 49   |
| 4       |   | N,N-Dimethylindoaniline             | 226 | C14H14N2O  | 002150-58-5 | 47   |
| 5       |   | 9H-Xanthen-9-one, 1-methoxy-        | 226 | C14H10O3   | 006563-60-6 | 47   |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

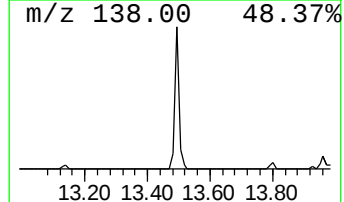
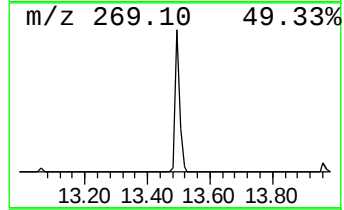
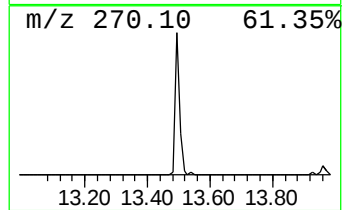
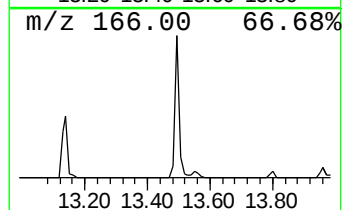
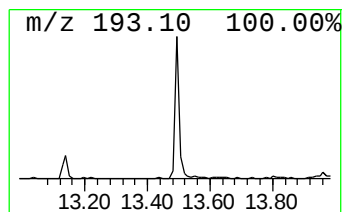
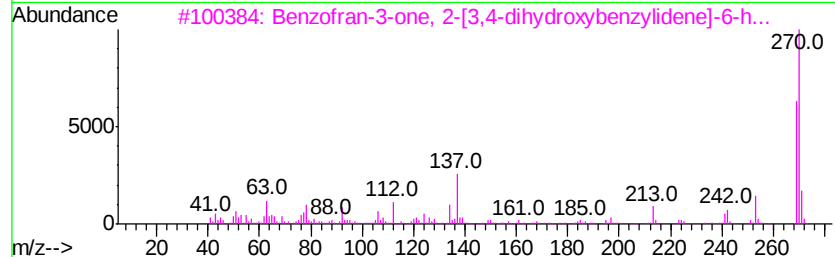
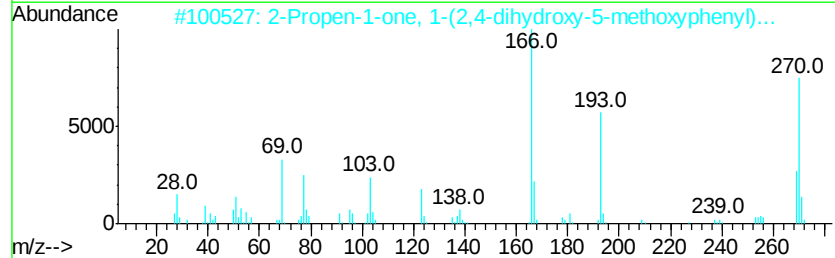
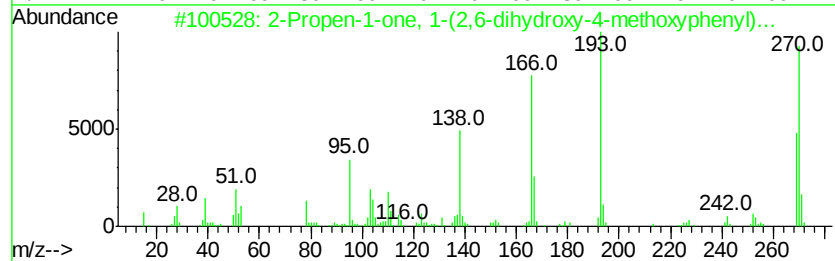
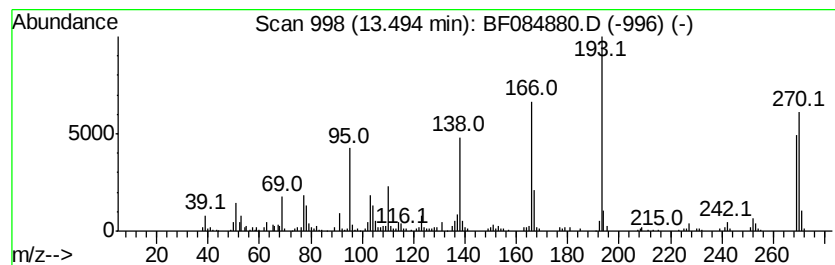
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 2-Propen-1-one, 1-(2,6-dihy... Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.49 | 4.15 ng | 248866 | Chrysene-d12     | 13.80 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 2-Propen-1-one, 1-(2,6-dihydroxy... | 270 | C16H14O4  | 018956-15-5  | 97   |
| 2    |    | 2-Propen-1-one, 1-(2,4-dihydroxy... | 270 | C16H14O4  | 028143-82-0  | 30   |
| 3    |    | Benzofran-3-one, 2-[3,4-dihydrox... | 270 | C15H10O5  | 1000128-63-2 | 25   |
| 4    |    | 4-Allyl-5-amino veratrole           | 193 | C11H15NO2 | 030058-51-6  | 14   |
| 5    |    | 2H-1-Benzopyran-7-ol, 3,4-dihydr... | 270 | C17H18O3  | 055670-26-3  | 14   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF020516\  
Data File : BF084880.D  
Acq On : 6 Feb 2016 00:42  
Operator : SJ/IZ  
Sample : H1311-07 5X  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SUP-B017(5-7)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020116.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... | 4.78  | 3.5     | ng    | 190041   | 1                     | 6.66  | 1080700 | 20.0 |
| unknown6.42          | 6.42  | 11.6    | ng    | 624494   | 1                     | 6.66  | 1080700 | 20.0 |
| Acridin-9-amine, ... | 13.14 | 13.0    | ng    | 781536   | 5                     | 13.80 | 1199200 | 20.0 |
| 2-Propen-1-one, 1... | 13.49 | 4.2     | ng    | 248866   | 5                     | 13.80 | 1199200 | 20.0 |