

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF120816\  
 Data File : BF091521.D  
 Acq On : 8 Dec 2016 23:53  
 Operator : UM/SJ  
 Sample : H5917-04  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 URSMW-12

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-BF112916.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         | 4.996       | 234           | 237         | 240          | rBV      | 353897         | 438113        | 10.65%          | 1.431%        |
| 2         | 5.419       | 271           | 274         | 277          | rVB      | 1458127        | 1379747       | 33.55%          | 4.508%        |
| 3         | 6.447       | 362           | 364         | 367          | rVB      | 724125         | 894097        | 21.74%          | 2.921%        |
| 4         | 6.585       | 373           | 376         | 379          | rBV      | 2932980        | 2974237       | 72.32%          | 9.717%        |
| 5         | 6.813       | 394           | 396         | 399          | rBV      | 1037482        | 1172884       | 28.52%          | 3.832%        |
| 6         | 6.973       | 408           | 410         | 413          | rVB      | 2808977        | 2573530       | 62.58%          | 8.408%        |
| 7         | 7.385       | 443           | 446         | 448          | rVB      | 2002040        | 2040913       | 49.63%          | 6.668%        |
| 8         | 8.105       | 506           | 509         | 511          | rBV      | 1443349        | 1327060       | 32.27%          | 4.335%        |
| 9         | 8.299       | 520           | 526         | 529          | rBV6     | 18486          | 58751         | 1.43%           | 0.192%        |
| 10        | 8.482       | 539           | 542         | 545          | rVB4     | 20888          | 44314         | 1.08%           | 0.145%        |
| 11        | 8.573       | 548           | 550         | 552          | rVB2     | 35528          | 47132         | 1.15%           | 0.154%        |
| 12        | 8.630       | 552           | 555         | 557          | rBV2     | 33865          | 65213         | 1.59%           | 0.213%        |
| 13        | 8.813       | 566           | 571         | 572          | rBV      | 36391          | 80691         | 1.96%           | 0.264%        |
| 14        | 9.042       | 588           | 591         | 593          | rBV3     | 26747          | 56825         | 1.38%           | 0.186%        |
| 15        | 9.179       | 600           | 603         | 605          | rVV      | 3235820        | 3379592       | 82.18%          | 11.041%       |
| 16        | 9.442       | 623           | 626         | 627          | rBV3     | 22275          | 43883         | 1.07%           | 0.143%        |
| 17        | 9.476       | 627           | 629         | 631          | rVV2     | 42432          | 57115         | 1.39%           | 0.187%        |
| 18        | 9.533       | 631           | 634         | 636          | rVV4     | 28009          | 76517         | 1.86%           | 0.250%        |
| 19        | 9.568       | 636           | 637         | 641          | rVB2     | 42952          | 53507         | 1.30%           | 0.175%        |
| 20        | 9.671       | 643           | 646         | 647          | rBV2     | 35787          | 51049         | 1.24%           | 0.167%        |
| 21        | 9.716       | 647           | 650         | 652          | rVB3     | 25432          | 42183         | 1.03%           | 0.138%        |
| 22        | 9.796       | 652           | 657         | 660          | rBV5     | 25912          | 112037        | 2.72%           | 0.366%        |
| 23        | 9.853       | 660           | 662         | 664          | rVB      | 1733240        | 1494087       | 36.33%          | 4.881%        |
| 24        | 10.059      | 678           | 680         | 683          | rBV4     | 24253          | 51730         | 1.26%           | 0.169%        |
| 25        | 10.105      | 683           | 684         | 686          | rBV2     | 42137          | 49543         | 1.20%           | 0.162%        |
| 26        | 10.162      | 686           | 689         | 690          | rVV2     | 65043          | 105484        | 2.57%           | 0.345%        |
| 27        | 10.196      | 690           | 692         | 693          | rVV      | 47146          | 60114         | 1.46%           | 0.196%        |
| 28        | 10.288      | 695           | 700         | 704          | rBV3     | 78257          | 155414        | 3.78%           | 0.508%        |
| 29        | 10.585      | 723           | 726         | 728          | rVV      | 281871         | 329033        | 8.00%           | 1.075%        |
| 30        | 10.642      | 728           | 731         | 734          | rVV      | 2561968        | 2749523       | 66.86%          | 8.983%        |
| 31        | 10.768      | 739           | 742         | 746          | rVV2     | 44461          | 76634         | 1.86%           | 0.250%        |
| 32        | 10.928      | 754           | 756         | 758          | rBV2     | 17324          | 41832         | 1.02%           | 0.137%        |
| 33        | 10.974      | 758           | 760         | 763          | rVV3     | 22143          | 49221         | 1.20%           | 0.161%        |
| 34        | 11.214      | 779           | 781         | 782          | rVB      | 44705          | 45835         | 1.11%           | 0.150%        |

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Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
URSMW-12

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-BF112916.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 11.339 | 789  | 792  | 794  | rVB  | 1669006 | 1567777 | 38.12%  | 5.122%  |
| 36 | 11.876 | 836  | 839  | 841  | rBV  | 232694  | 262700  | 6.39%   | 0.858%  |
| 37 | 12.562 | 897  | 899  | 903  | rBV4 | 21989   | 43834   | 1.07%   | 0.143%  |
| 38 | 12.654 | 905  | 907  | 914  | rVV  | 200947  | 245192  | 5.96%   | 0.801%  |
| 39 | 12.928 | 928  | 931  | 933  | rBV  | 3560963 | 4112345 | 100.00% | 13.435% |
| 40 | 13.820 | 1006 | 1009 | 1012 | rBV2 | 31605   | 43456   | 1.06%   | 0.142%  |
| 41 | 13.968 | 1019 | 1022 | 1024 | rBV  | 1240292 | 1282082 | 31.18%  | 4.188%  |
| 42 | 15.385 | 1143 | 1146 | 1148 | rBV  | 604898  | 874460  | 21.26%  | 2.857%  |

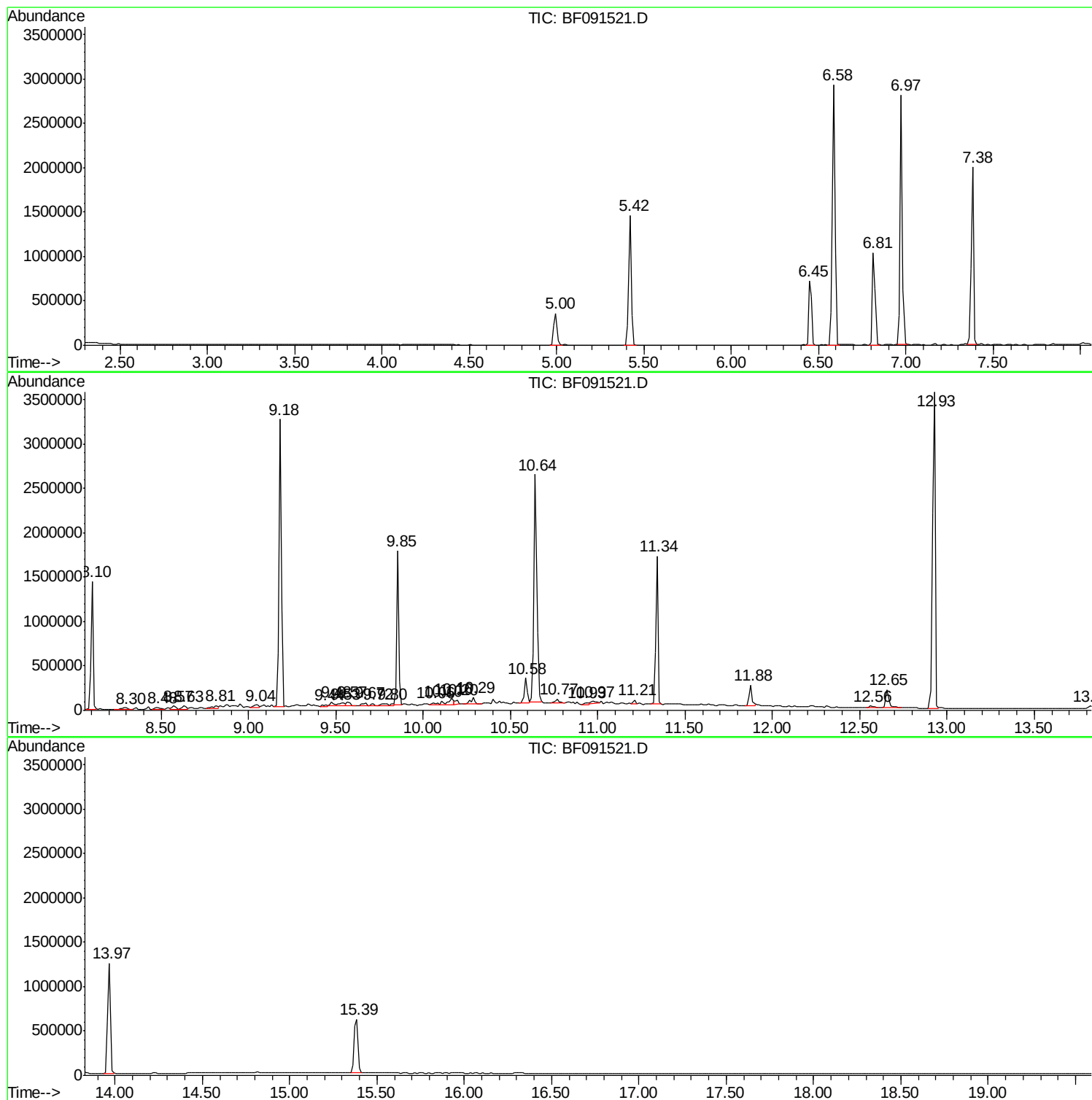
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF112916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Sample : H5917-04  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

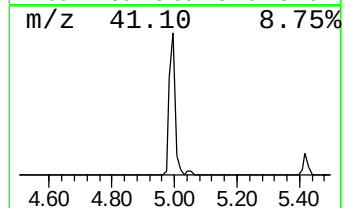
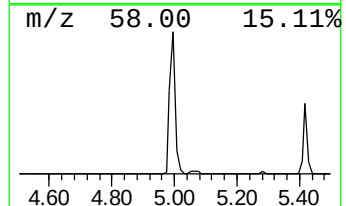
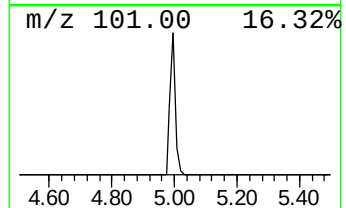
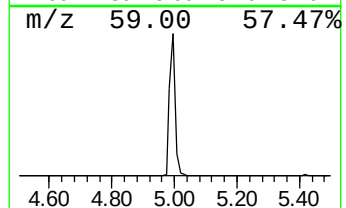
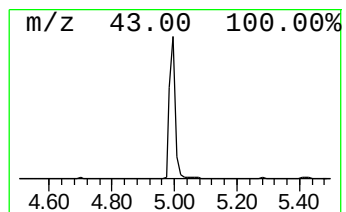
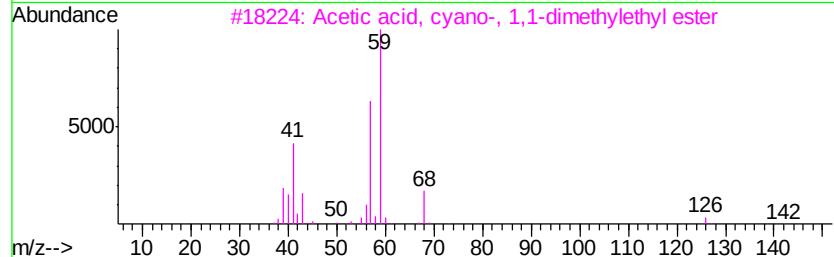
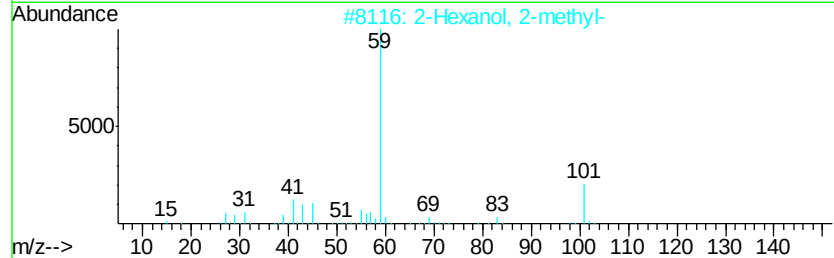
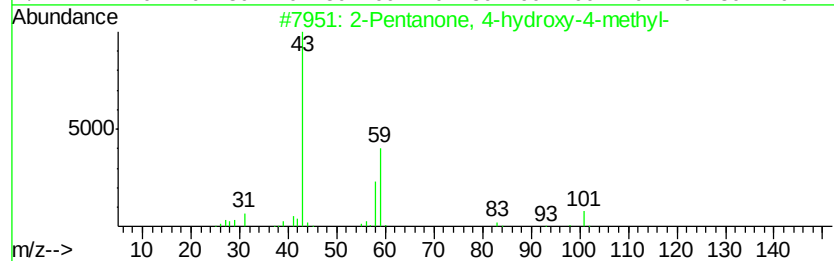
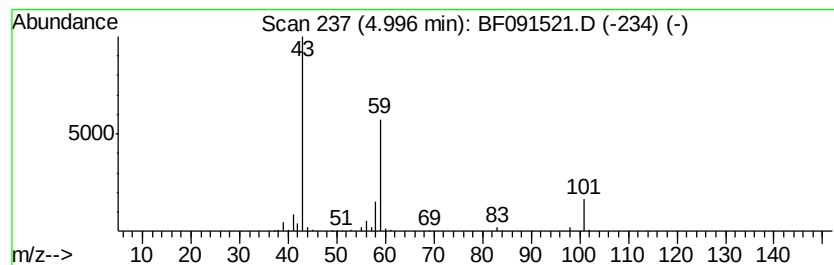
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF112916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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 3

| R.T.      | EstConc                             | Area   | Relative to ISTD       | R.T.        |      |
|-----------|-------------------------------------|--------|------------------------|-------------|------|
| 5.00      | 7.47 ng                             | 438113 | 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 | 50   |
| 2         | 2-Hexanol, 2-methyl-                | 116    | C7H16O                 | 000625-23-0 | 28   |
| 3         | Acetic acid, cyano-, 1,1-dimethy... | 141    | C7H11NO2               | 001116-98-9 | 25   |
| 4         | 1-Propen-2-ol, acetate              | 100    | C5H8O2                 | 000108-22-5 | 10   |
| 5         | Acetic acid, 1,1-dimethylethyl e... | 116    | C6H12O2                | 000540-88-5 | 9    |



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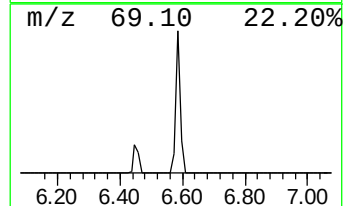
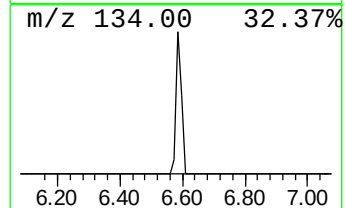
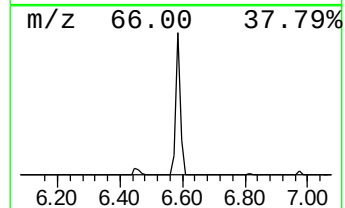
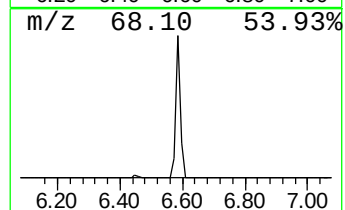
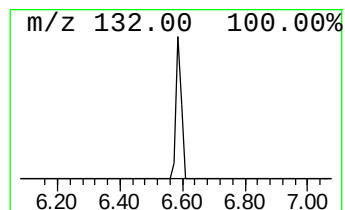
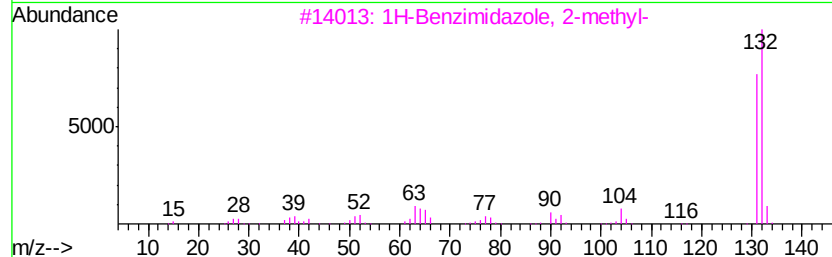
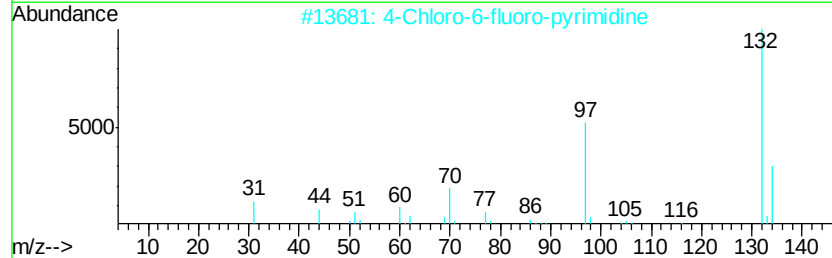
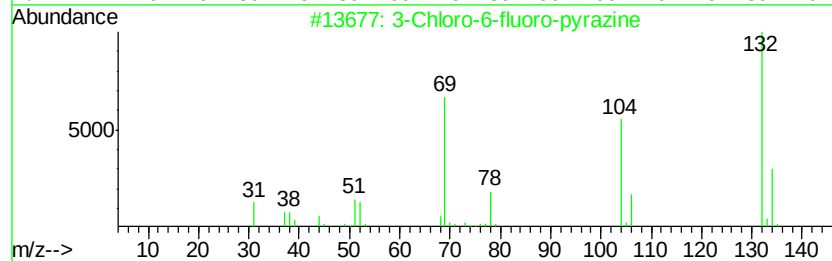
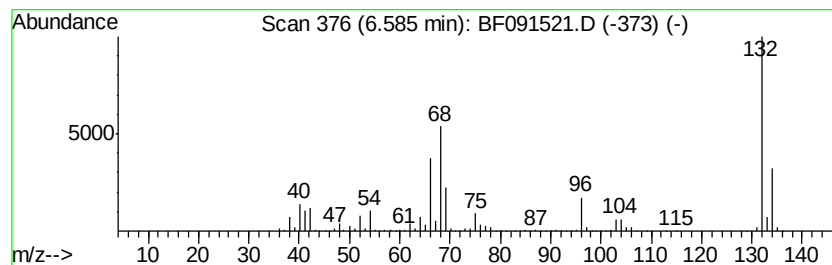
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF112916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 unknown6.58 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.58 | 50.72 ng | 2974240 | 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 | 27   |
| 2    |    | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 27   |
| 3    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 22   |
| 4    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 12   |
| 5    |    | (5-METHYL-2-PYRIDYL)ACETONITRILE | 132 | C8H8N2    | 1000241-93-9 | 10   |



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ALS Vial : 14 Sample Multiplier: 1

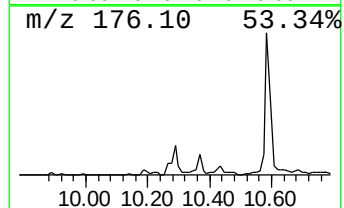
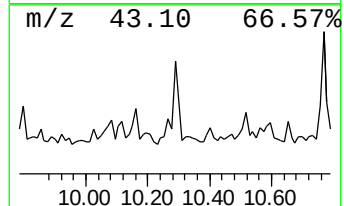
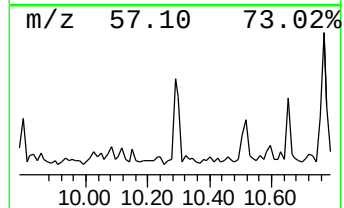
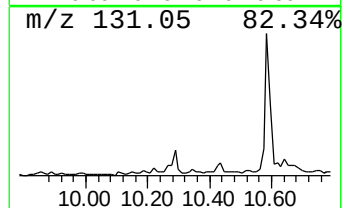
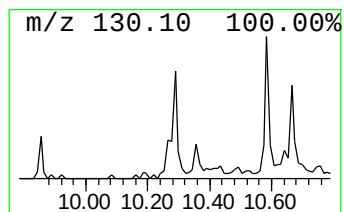
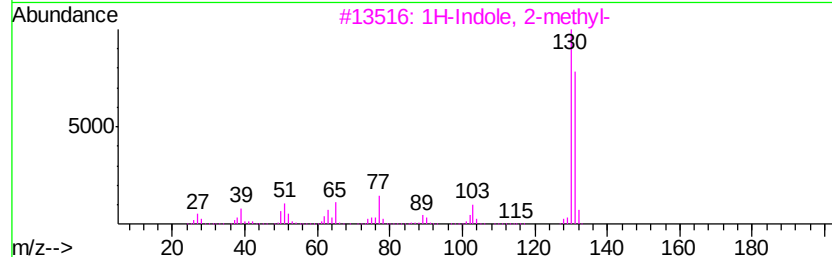
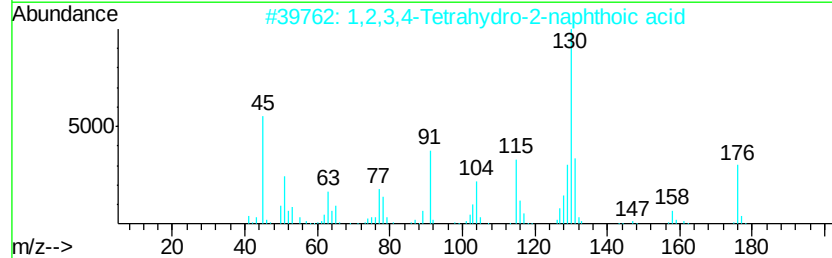
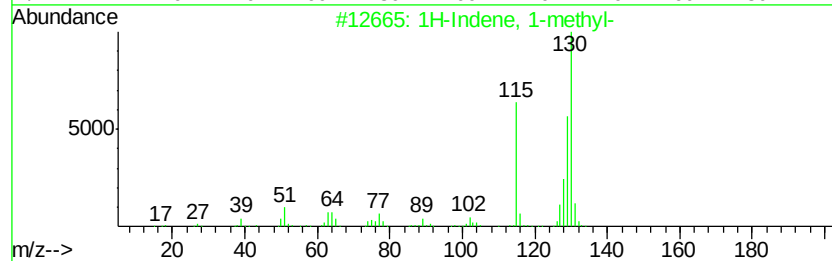
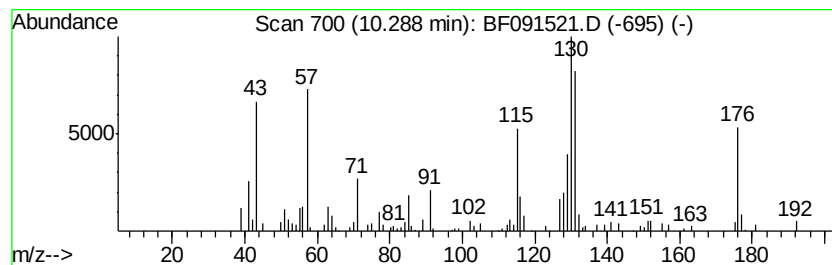
Instrument :  
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF112916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 1H-Indene, 1-methyl- Concentration Rank 7

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.      |
|---------|-------------------------------------|--------------|------------------|-----------|
| 10.29   | 2.08 ng                             | 155414       | Acenaphthene-d10 | 9.85      |
| Hit# of | 5                                   | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | 1H-Indene, 1-methyl-                | 130 C10H10   | 000767-59-9      | 55        |
| 2       | 1,2,3,4-Tetrahydro-2-naphthoic acid | 176 C11H12O2 | 053440-12-3      | 53        |
| 3       | 1H-Indole, 2-methyl-                | 131 C9H9N    | 000095-20-5      | 43        |
| 4       | 1H-Indole, 4-methyl-                | 131 C9H9N    | 016096-32-5      | 43        |
| 5       | 1H-Indole, 6-methyl-                | 131 C9H9N    | 003420-02-8      | 43        |



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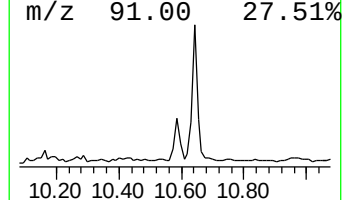
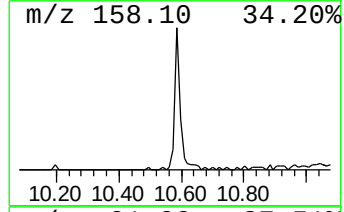
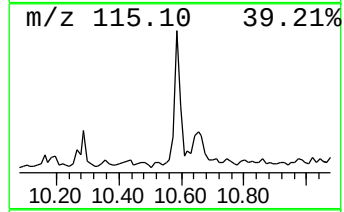
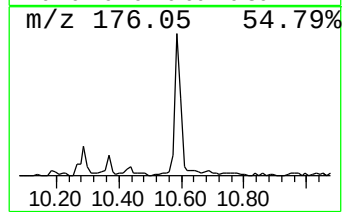
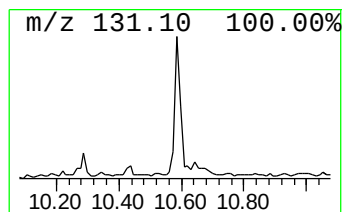
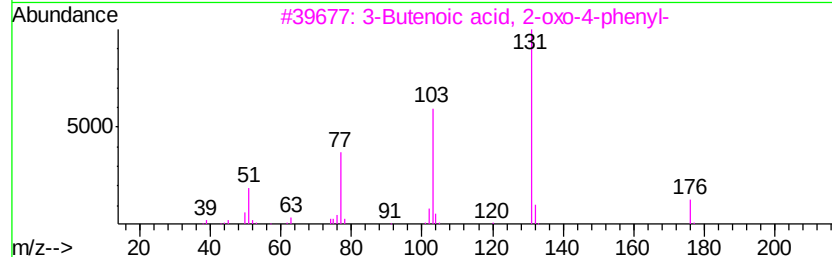
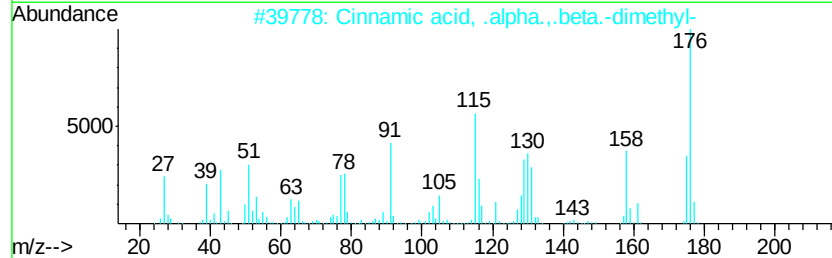
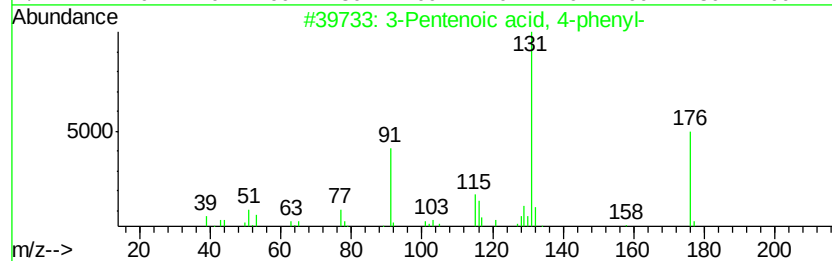
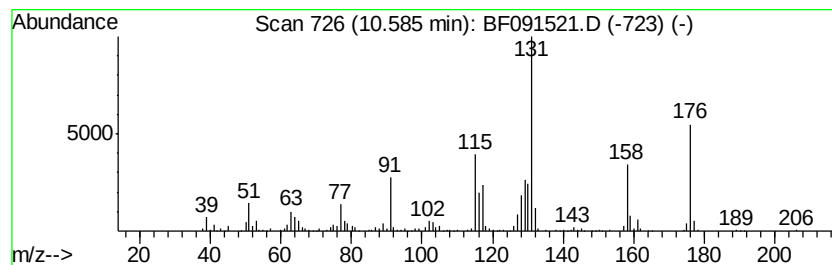
Instrument :  
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TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 3-Pentenoic acid, 4-phenyl- Concentration Rank 4

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.     |              |      |
|---------|---------|-------------------------------------|------------------|----------|--------------|------|
| 10.58   | 4.40 ng | 329033                              | Acenaphthene-d10 | 9.85     |              |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm  | CAS#         | Qual |
| 1       |         | 3-Pentenoic acid, 4-phenyl-         | 176              | C11H12O2 | 053774-19-9  | 50   |
| 2       |         | Cinnamic acid, .alpha.,.beta.-di... | 176              | C11H12O2 | 1000151-56-4 | 43   |
| 3       |         | 3-Butenoic acid, 2-oxo-4-phenyl-    | 176              | C10H8O3  | 1000142-21-0 | 38   |
| 4       |         | 1,4-Methanonaphthalen-9-ol, 1,2,... | 160              | C11H12O  | 055255-94-2  | 38   |
| 5       |         | 2-Butene, 3-chloro-1-phenyl-, (Z)-  | 166              | C10H11Cl | 016608-68-7  | 35   |



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Operator : UM/SJ  
Sample : H5917-04  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

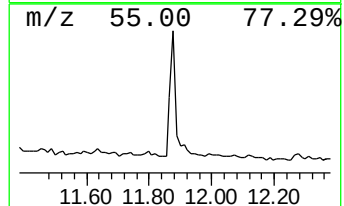
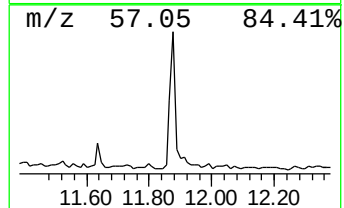
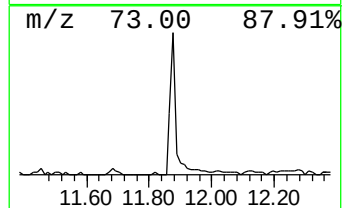
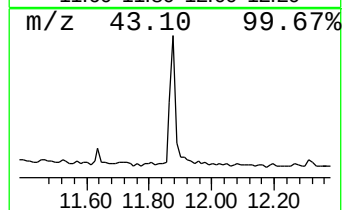
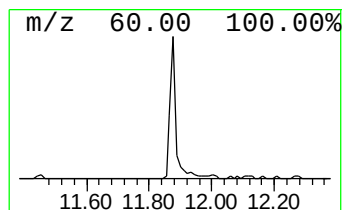
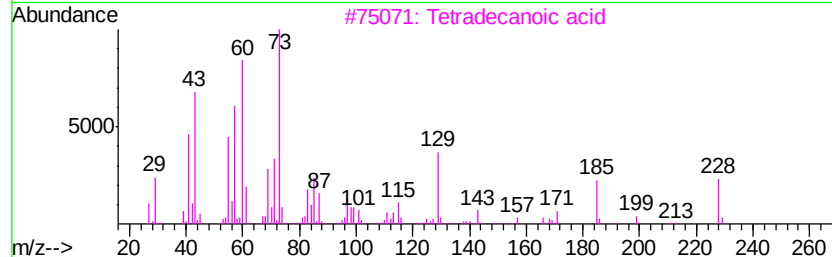
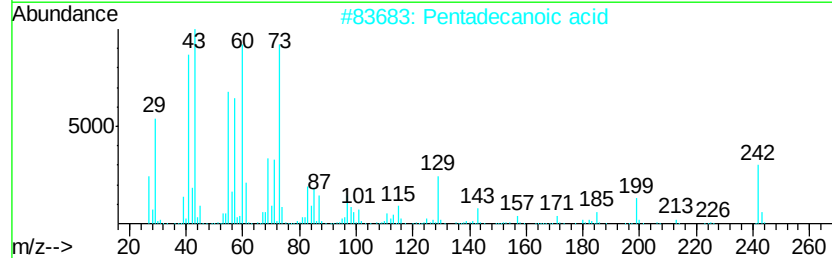
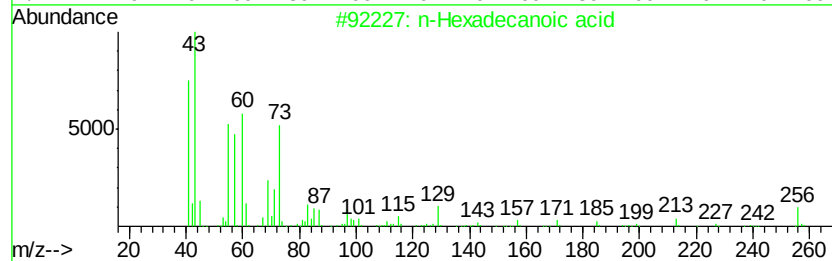
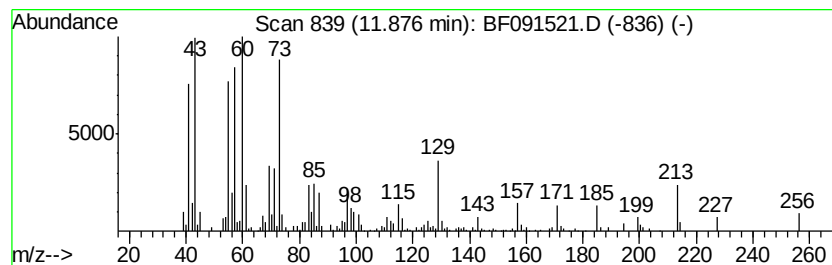
Instrument :  
BNA\_F  
ClientSampleId :  
URSMW-12

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF112916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T.      | EstConc             | Area   | Relative to ISTD |             | R.T.  |
|-----------|---------------------|--------|------------------|-------------|-------|
| 11.88     | 3.35 ng             | 262700 | Phenanthrene-d10 |             | 11.34 |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual  |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 93    |
| 2         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 72    |
| 3         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 72    |
| 4         | Dodecanoic acid     | 200    | C12H24O2         | 000143-07-7 | 70    |
| 5         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 64    |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF120816\  
Data File : BF091521.D  
Acq On : 8 Dec 2016 23:53  
Operator : UM/SJ  
Sample : H5917-04  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
URSMW-12

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF112916.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  | 7.5     | ng    | 438113   | 1                     | 6.81  | 1172880 | 20.0 |
| unknown6.58          | 6.58  | 50.7    | ng    | 2974240  | 1                     | 6.81  | 1172880 | 20.0 |
| 1H-Indene, 1-methyl- | 10.29 | 2.1     | ng    | 155414   | 3                     | 9.85  | 1494090 | 20.0 |
| 3-Pentenoic acid,... | 10.58 | 4.4     | ng    | 329033   | 3                     | 9.85  | 1494090 | 20.0 |
| n-Hexadecanoic acid  | 11.88 | 3.4     | ng    | 262700   | 4                     | 11.34 | 1567780 | 20.0 |