

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053119\  
 Data File : BM020633.D  
 Acq On : 31 May 2019 16:34  
 Operator : JU/SJ  
 Sample : K3047-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SOIL-COMP

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:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM053119.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         | 3.069       | 9             | 14          | 28           | rVB      | 1980551        | 2355593       | 14.73%          | 2.163%        |
| 2         | 5.416       | 406           | 413         | 425          | rBV      | 5957129        | 8492797       | 53.11%          | 7.798%        |
| 3         | 6.998       | 673           | 682         | 698          | rBV      | 6145934        | 10091113      | 63.10%          | 9.266%        |
| 4         | 7.369       | 735           | 745         | 755          | rBV      | 6073066        | 9726730       | 60.82%          | 8.931%        |
| 5         | 7.834       | 816           | 824         | 831          | rBV      | 1079245        | 1668398       | 10.43%          | 1.532%        |
| 6         | 8.151       | 871           | 878         | 895          | rVB      | 4316299        | 6934956       | 43.36%          | 6.368%        |
| 7         | 8.998       | 1013          | 1022        | 1031         | rBV      | 3507648        | 6040968       | 37.77%          | 5.547%        |
| 8         | 10.628      | 1289          | 1299        | 1306         | rBV      | 1406581        | 2398066       | 15.00%          | 2.202%        |
| 9         | 13.092      | 1710          | 1718        | 1725         | rBV      | 8905389        | 13173745      | 82.38%          | 12.097%       |
| 10        | 13.927      | 1854          | 1860        | 1868         | rVB      | 360350         | 513515        | 3.21%           | 0.472%        |
| 11        | 14.468      | 1942          | 1952        | 1959         | rBV2     | 2144917        | 3267747       | 20.43%          | 3.001%        |
| 12        | 15.957      | 2197          | 2205        | 2224         | rBV      | 7285232        | 10408673      | 65.09%          | 9.558%        |
| 13        | 17.215      | 2412          | 2419        | 2423         | rBV      | 2653880        | 3839798       | 24.01%          | 3.526%        |
| 14        | 17.257      | 2423          | 2426        | 2431         | rVB      | 313290         | 419134        | 2.62%           | 0.385%        |
| 15        | 18.109      | 2563          | 2571        | 2581         | rBV2     | 377897         | 690197        | 4.32%           | 0.634%        |
| 16        | 19.268      | 2762          | 2768        | 2776         | rBV      | 802310         | 1079737       | 6.75%           | 0.991%        |
| 17        | 19.386      | 2783          | 2788        | 2796         | rBV2     | 148136         | 237220        | 1.48%           | 0.218%        |
| 18        | 19.627      | 2825          | 2829        | 2838         | rVB      | 655167         | 987746        | 6.18%           | 0.907%        |
| 19        | 19.839      | 2856          | 2865        | 2878         | rVB      | 13293360       | 15992370      | 100.00%         | 14.685%       |
| 20        | 21.109      | 3077          | 3081        | 3087         | rBV2     | 605904         | 764903        | 4.78%           | 0.702%        |
| 21        | 21.392      | 3121          | 3129        | 3133         | rBV2     | 2597601        | 3914990       | 24.48%          | 3.595%        |
| 22        | 21.427      | 3133          | 3135        | 3143         | rVB      | 356360         | 398069        | 2.49%           | 0.366%        |
| 23        | 21.550      | 3152          | 3156        | 3161         | rBV2     | 153291         | 199520        | 1.25%           | 0.183%        |
| 24        | 21.997      | 3229          | 3232        | 3238         | rBV3     | 148387         | 214001        | 1.34%           | 0.197%        |
| 25        | 22.474      | 3310          | 3313        | 3320         | rVB      | 133032         | 183870        | 1.15%           | 0.169%        |
| 26        | 22.997      | 3396          | 3402        | 3407         | rBV2     | 372891         | 841711        | 5.26%           | 0.773%        |
| 27        | 23.480      | 3480          | 3484        | 3490         | rVB      | 150519         | 283909        | 1.78%           | 0.261%        |
| 28        | 23.586      | 3497          | 3502        | 3509         | rVB2     | 290908         | 599061        | 3.75%           | 0.550%        |
| 29        | 23.686      | 3512          | 3519        | 3535         | rVB2     | 1546402        | 3185563       | 19.92%          | 2.925%        |

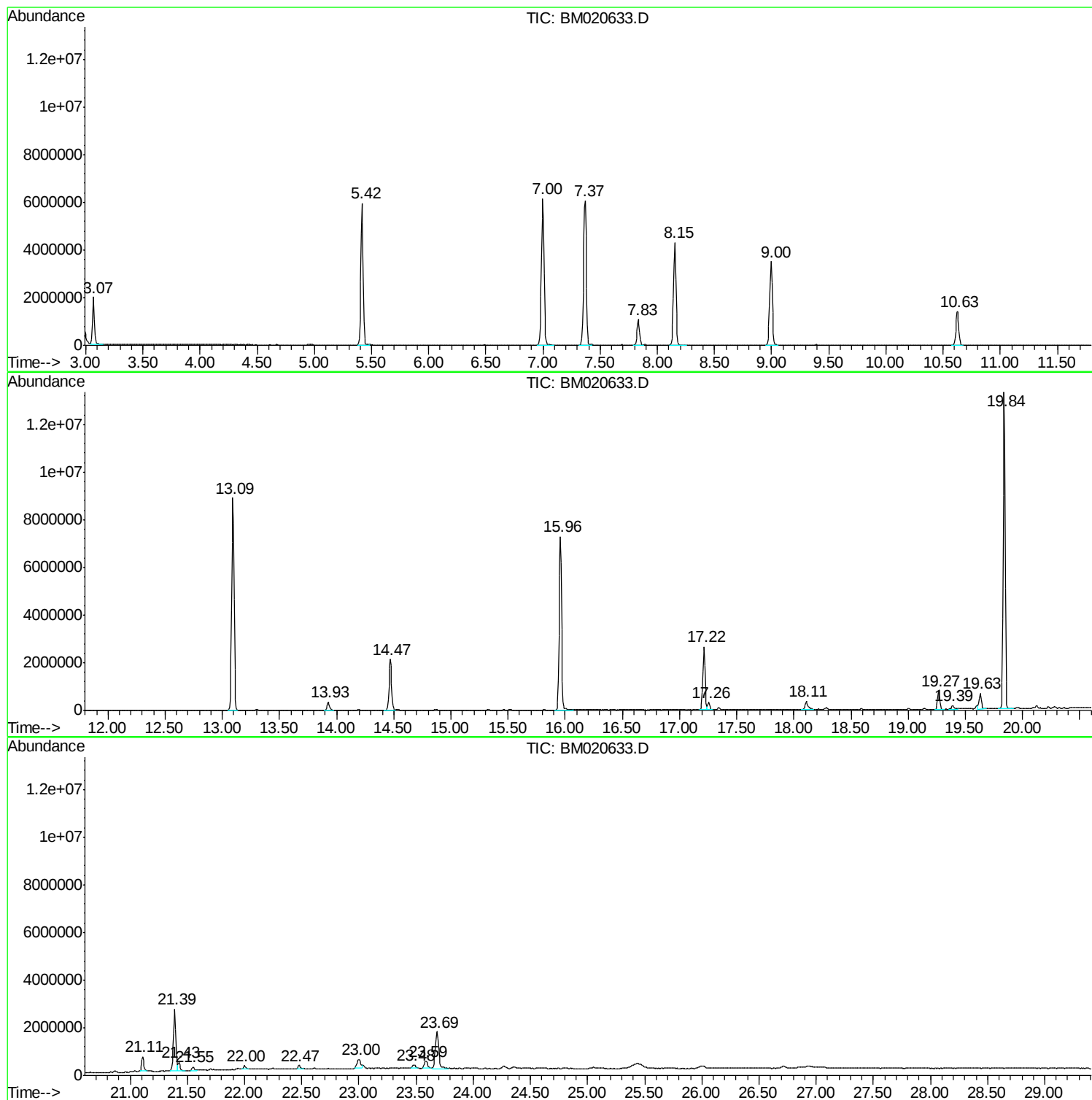
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM053119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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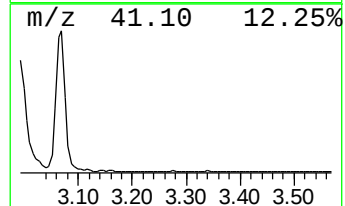
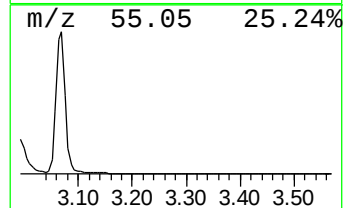
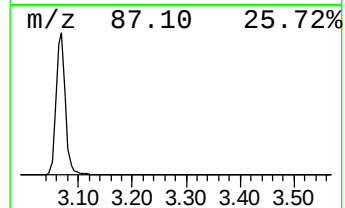
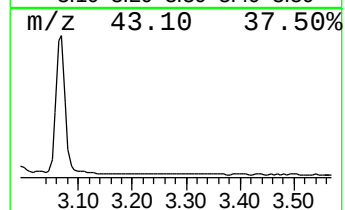
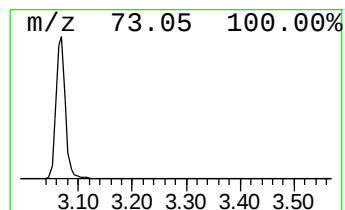
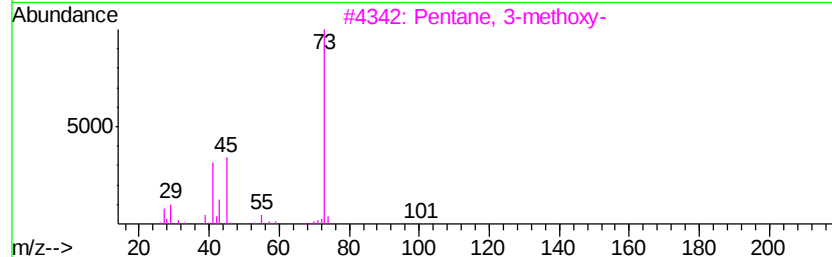
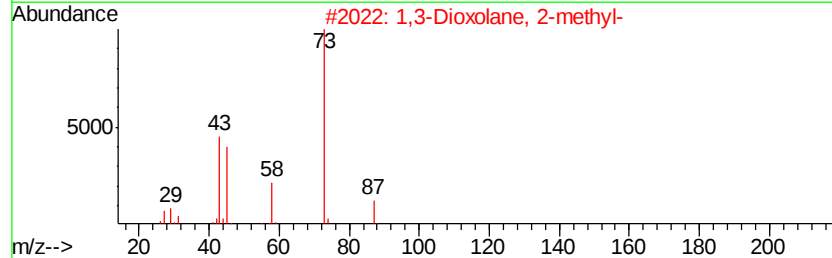
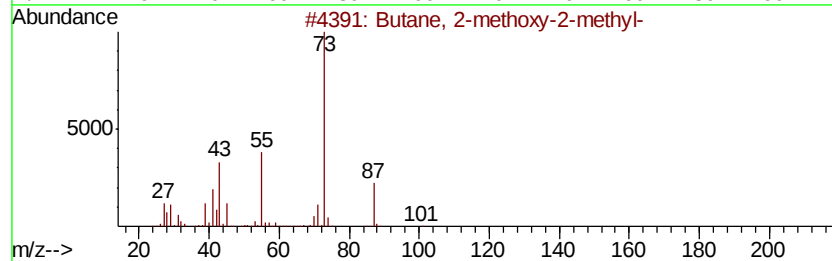
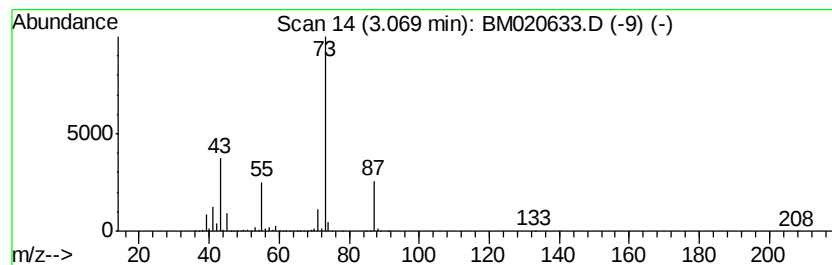
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 3.07 | 28.24 ng | 2355590 | 1,4-Dichlorobenzene-d4 | 7.83 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 25   |
| 3    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 17   |
| 4    |    | N-Ethylformamide            | 73  | C3H7NO  | 000627-45-2 | 9    |
| 5    |    | Acetamide, N-ethyl-         | 87  | C4H9NO  | 000625-50-3 | 9    |



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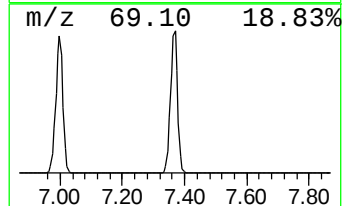
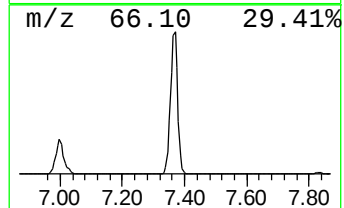
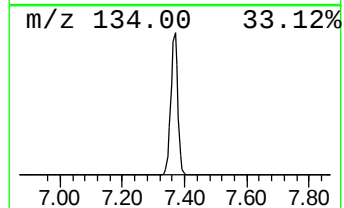
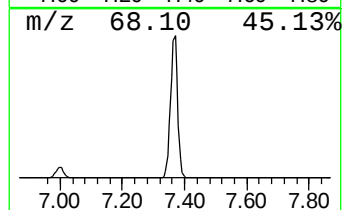
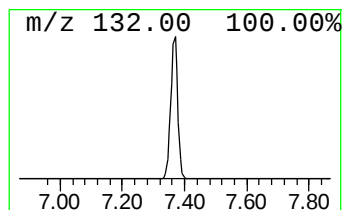
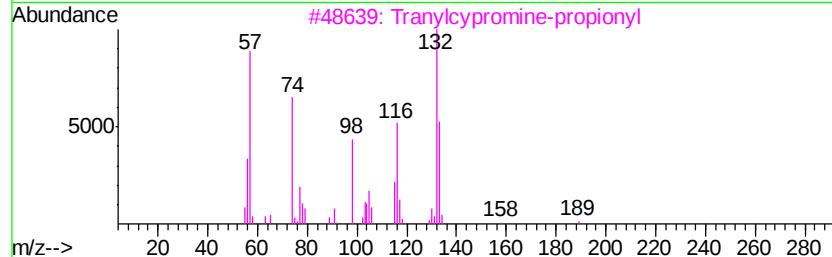
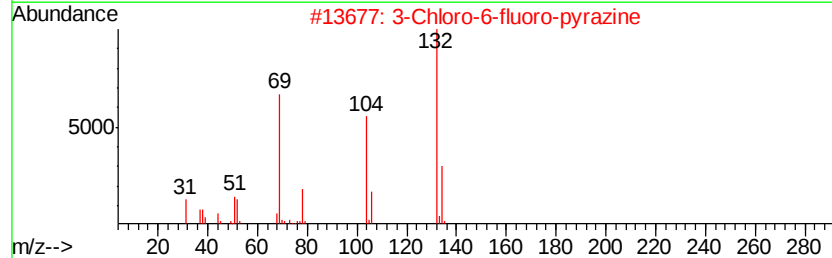
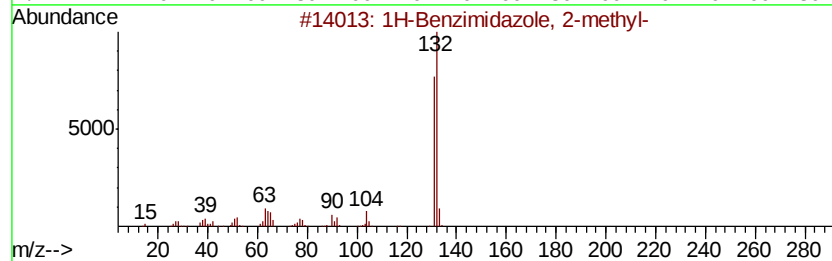
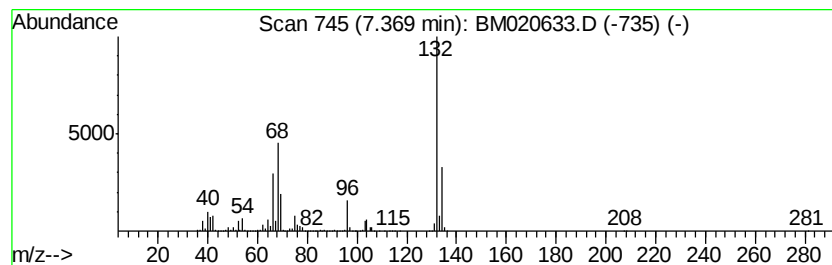
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 unknown7.37 Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 7.37 | 116.60 ng | 9726730 | 1,4-Dichlorobenzene-d4 | 7.83 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|---|----------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 22   |
| 2    |    |   | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 3    |    |   | Tranvlcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    |   | Benzene, 1,2,4-trifluoro-        | 132 | C6H3F3    | 000367-23-7  | 9    |
| 5    |    |   | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 9    |



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ALS Vial : 10 Sample Multiplier: 1

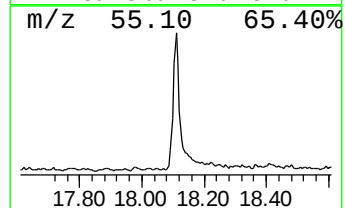
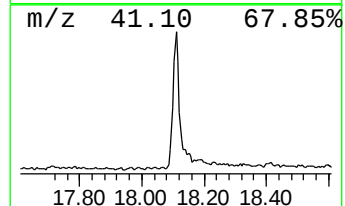
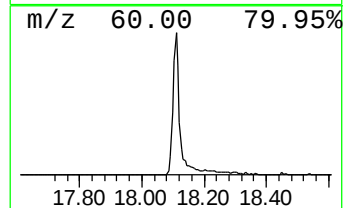
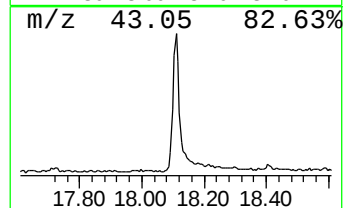
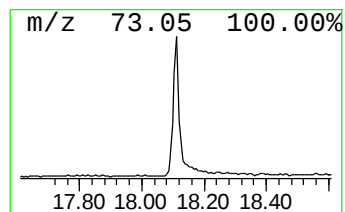
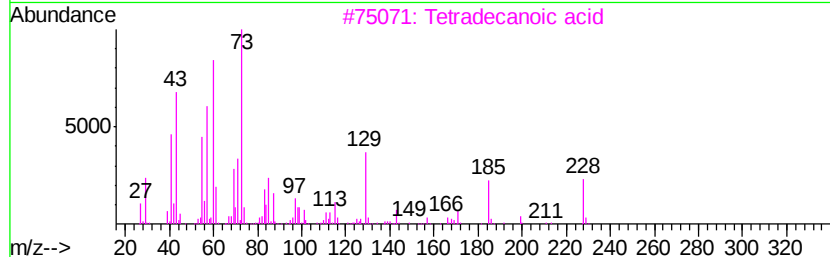
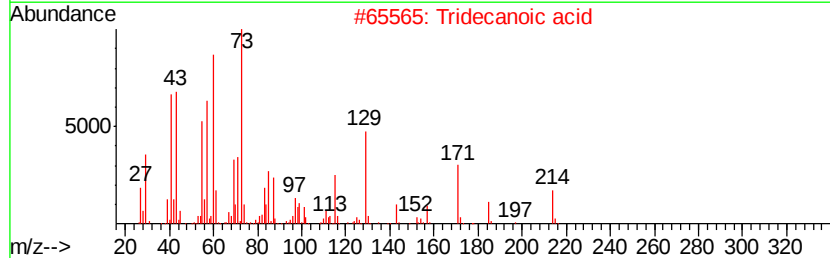
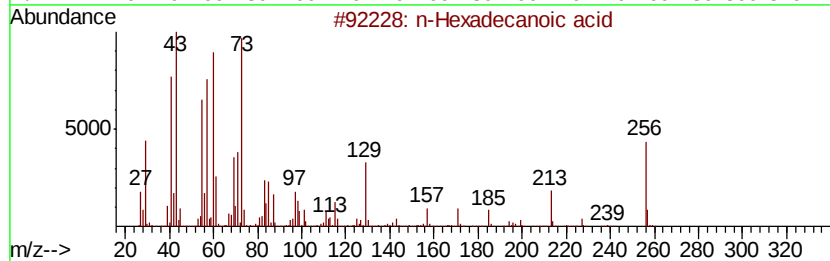
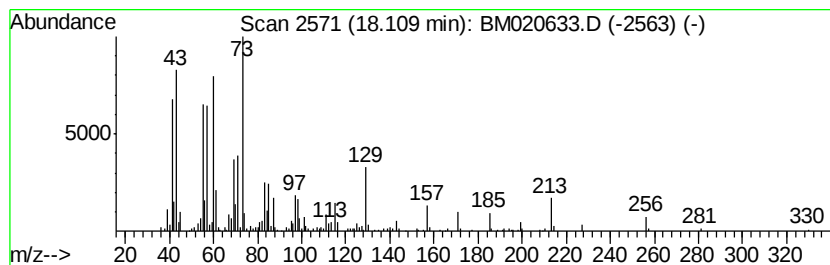
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM053119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 n-Hexadecanoic acid Concentration Rank 5

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 18.11     | 3.59 ng             | 690197 | Phenanthrene-d10 | 17.22       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 99   |
| 2         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 95   |
| 3         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 80   |
| 4         | Dodecane            | 170    | C12H26           | 000112-40-3 | 11   |
| 5         | Tridecane           | 184    | C13H28           | 000629-50-5 | 11   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM053119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

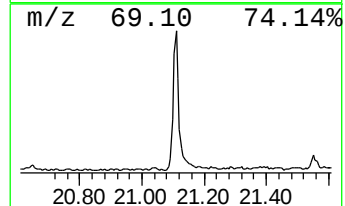
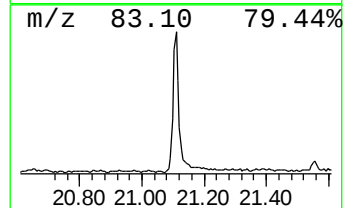
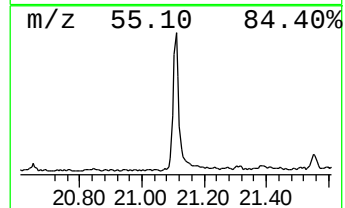
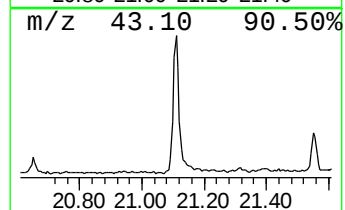
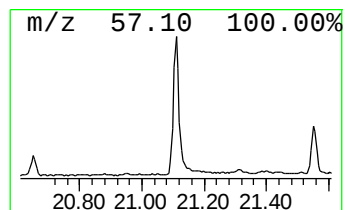
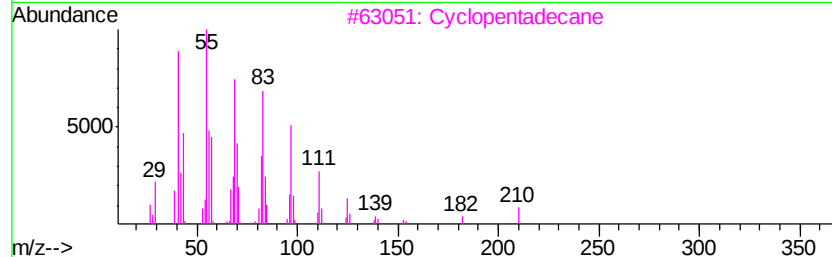
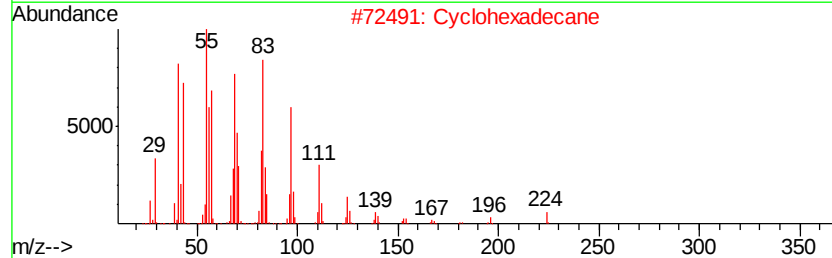
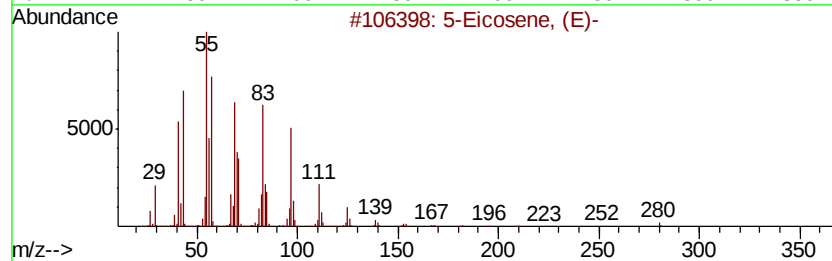
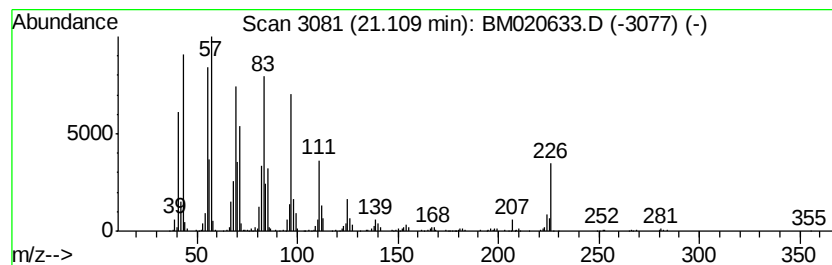
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 21.11 | 3.91 ng | 764903 | Chrysene-d12     | 21.39 |

| Hit# of | 5                                   | Tentative ID | MW  | MolForm     | CAS#         | Qual |
|---------|-------------------------------------|--------------|-----|-------------|--------------|------|
| 1       | 5-Eicosene, (E)-                    |              | 280 | C20H40      | 074685-30-6  | 95   |
| 2       | Cyclohexadecane                     |              | 224 | C16H32      | 000295-65-8  | 94   |
| 3       | Cyclopentadecane                    |              | 210 | C15H30      | 000295-48-7  | 93   |
| 4       | Trichloroacetic acid, hexadecyl ... |              | 386 | C18H33Cl3O2 | 074339-54-1  | 93   |
| 5       | Heptafluorobutanoic acid, heptad... |              | 452 | C21H35F7O2  | 1000282-97-3 | 93   |



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TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Butane, 2-methoxy... | 3.07  | 28.2    | ng    | 2355590  | 1                     | 7.83  | 1668400 | 20.0 |
| unknown7.37          | 7.37  | 116.6   | ng    | 9726730  | 1                     | 7.83  | 1668400 | 20.0 |
| n-Hexadecanoic acid  | 18.11 | 3.6     | ng    | 690197   | 4                     | 17.22 | 3839800 | 20.0 |
| 5-Eicosene, (E)-     | 21.11 | 3.9     | ng    | 764903   | 5                     | 21.39 | 3914990 | 20.0 |