

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080718\  
 Data File : BG036173.D  
 Acq On : 7 Aug 2018 22:20  
 Operator : JU/SJ  
 Sample : J4330-04  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 073018-DBRI-E-U-B

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:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG071218.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         | 5.596       | 387           | 393         | 408          | rBV      | 136975         | 258902        | 9.65%           | 2.756%        |
| 2         | 7.182       | 653           | 663         | 680          | rBV      | 83017          | 180637        | 6.73%           | 1.923%        |
| 3         | 7.546       | 718           | 725         | 740          | rBV      | 270718         | 493802        | 18.41%          | 5.256%        |
| 4         | 8.010       | 798           | 804         | 813          | rBV      | 95527          | 165491        | 6.17%           | 1.761%        |
| 5         | 8.334       | 851           | 859         | 868          | rBV      | 357550         | 651024        | 24.27%          | 6.929%        |
| 6         | 9.174       | 994           | 1002        | 1014         | rBV      | 282156         | 579328        | 21.59%          | 6.166%        |
| 7         | 10.813      | 1274          | 1281        | 1292         | rBV      | 84738          | 188585        | 7.03%           | 2.007%        |
| 8         | 13.256      | 1687          | 1697        | 1711         | rBV      | 819078         | 1393603       | 51.95%          | 14.833%       |
| 9         | 14.637      | 1925          | 1932        | 1943         | rBV2     | 170326         | 315934        | 11.78%          | 3.363%        |
| 10        | 15.923      | 2146          | 2151        | 2157         | rBV      | 56900          | 79781         | 2.97%           | 0.849%        |
| 11        | 16.123      | 2179          | 2185        | 2198         | rBV2     | 472822         | 838567        | 31.26%          | 8.925%        |
| 12        | 17.380      | 2391          | 2399        | 2414         | rBV2     | 265862         | 468942        | 17.48%          | 4.991%        |
| 13        | 19.982      | 2836          | 2842        | 2859         | rBV      | 1961828        | 2682825       | 100.00%         | 28.555%       |
| 14        | 21.639      | 3118          | 3124        | 3141         | rBV2     | 304337         | 561419        | 20.93%          | 5.976%        |
| 15        | 24.823      | 3656          | 3666        | 3683         | rBV3     | 168106         | 536400        | 19.99%          | 5.709%        |

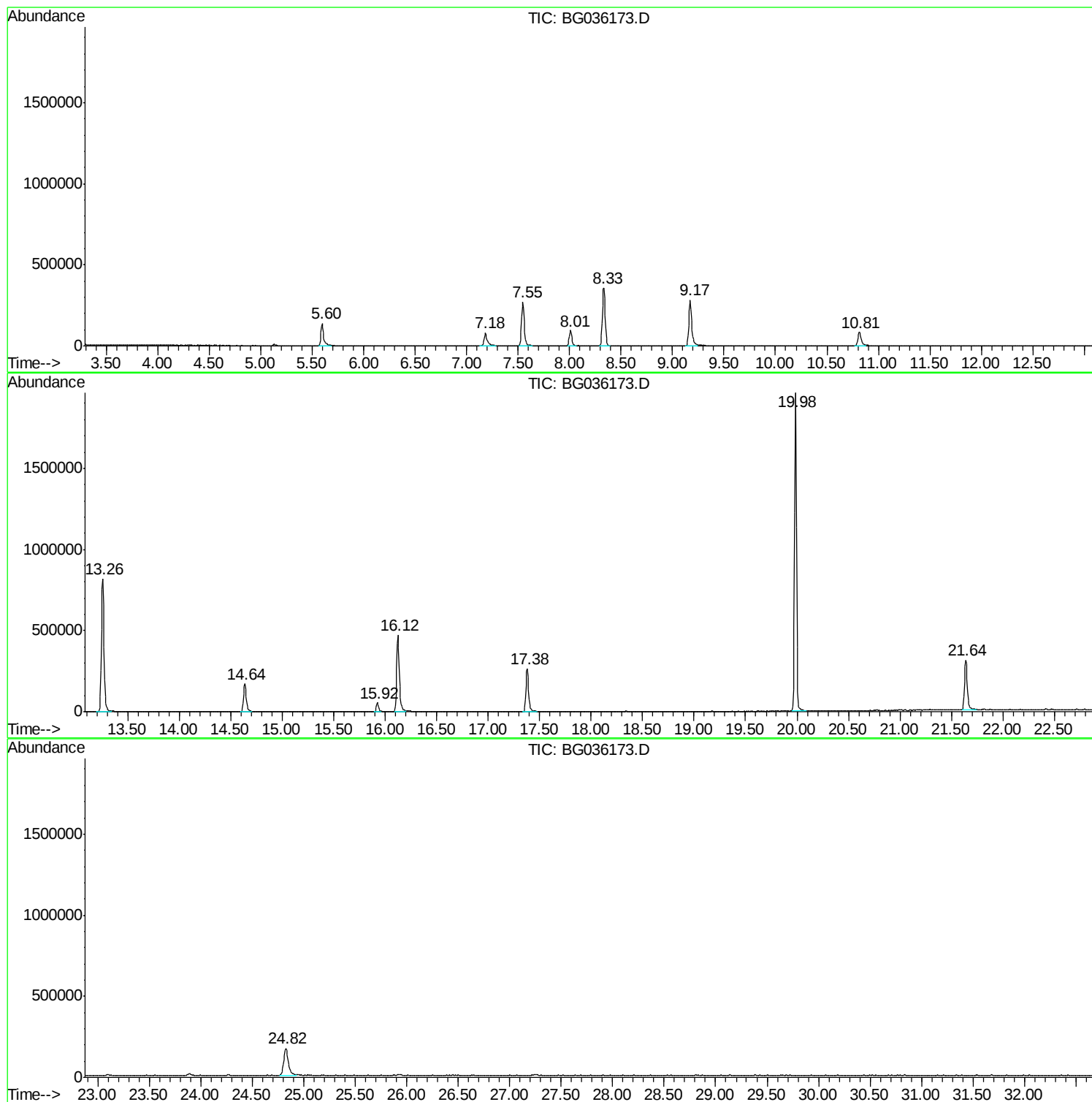
Sum of corrected areas: 9395240

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG071218.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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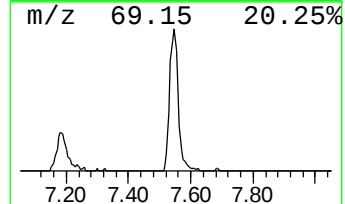
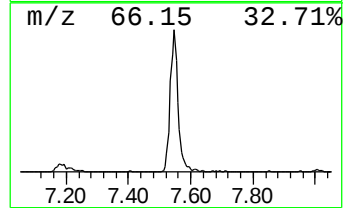
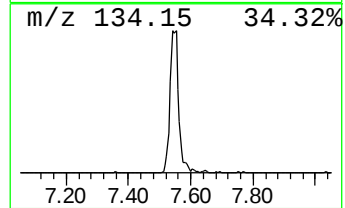
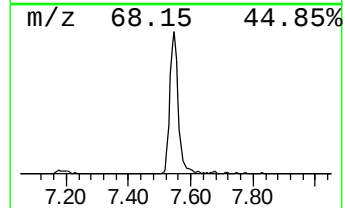
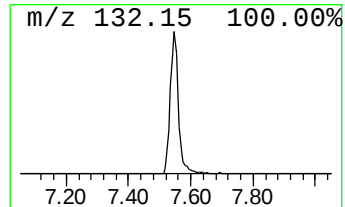
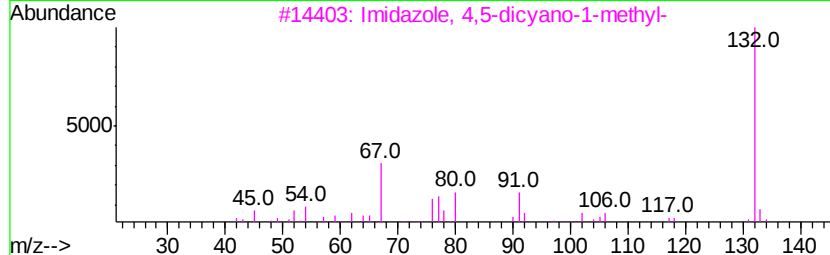
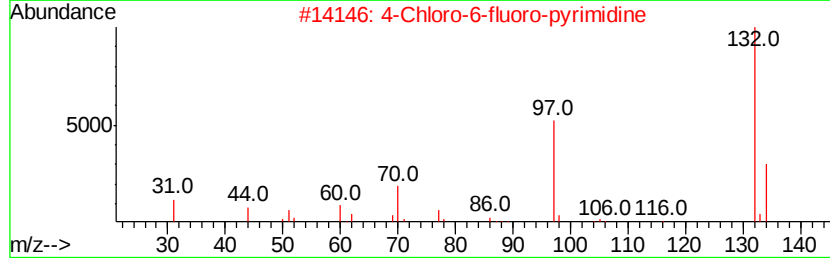
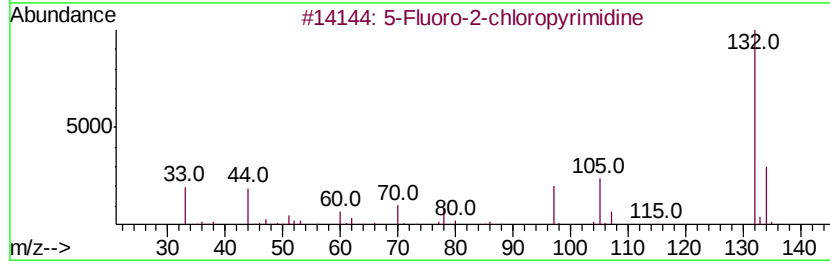
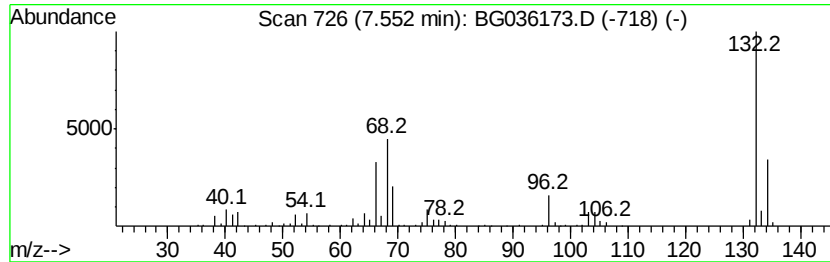
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG071218.M  
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TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown7.55 Concentration Rank 2

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 7.55 | 59.68 ng | 493802 | 1,4-Dichlorobenzene-d4 | 8.01 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 27   |
| 2    |    | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 27   |
| 3    |    | Imidazole, 4,5-dicyano-1-methyl- | 132 | C6H4N4    | 019485-35-9  | 25   |
| 4    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 22   |
| 5    |    | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |



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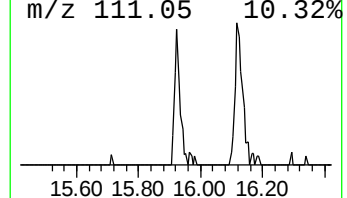
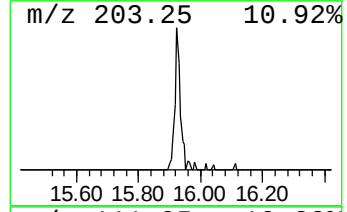
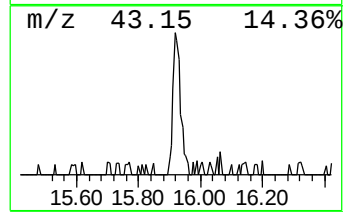
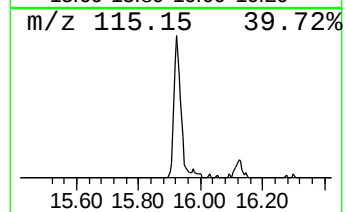
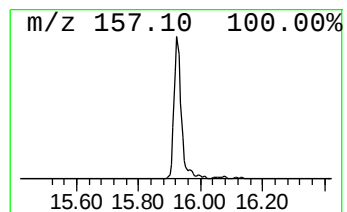
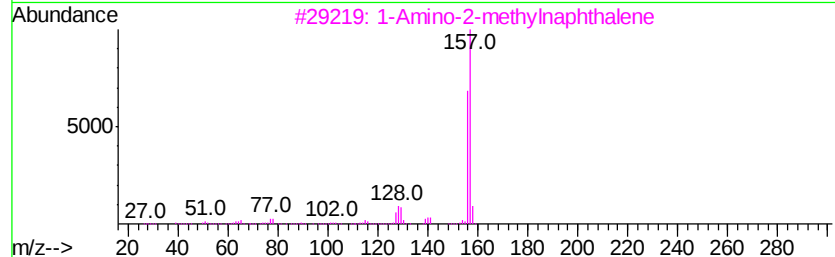
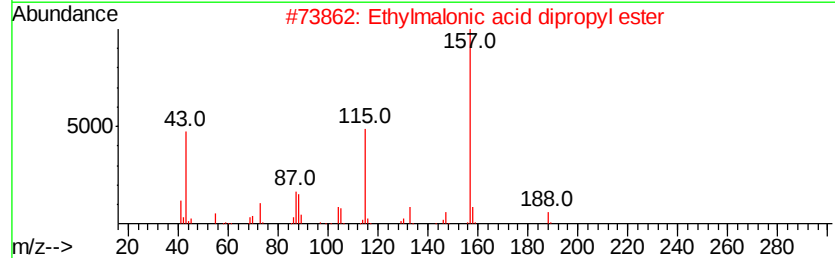
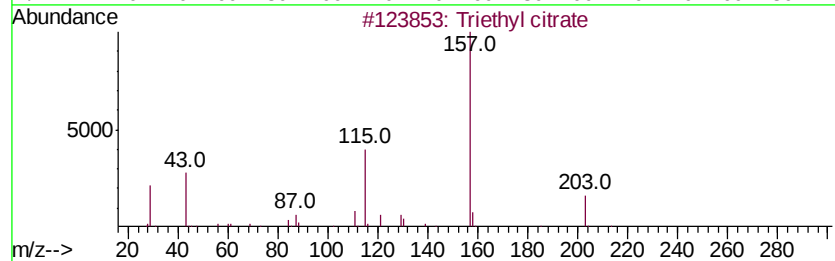
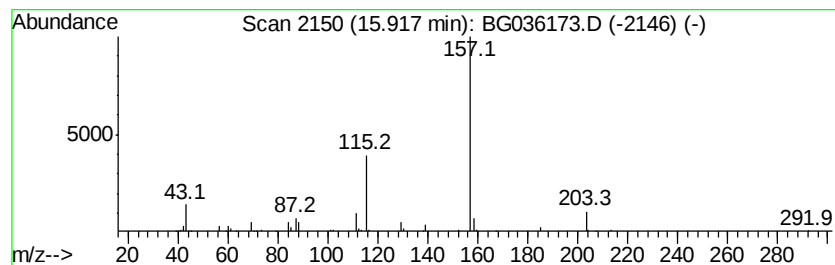
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Peak Number 3 Triethyl citrate Concentration Rank 3

| R.T.      | EstConc                             | Area  | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|-------|------------------|--------------|------|
| 15.92     | 5.05 ng                             | 79781 | Acenaphthene-d10 | 14.64        |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm          | CAS#         | Qual |
| 1         | Triethyl citrate                    | 276   | C12H20O7         | 000077-93-0  | 78   |
| 2         | Ethylmalonic acid dipropyl ester    | 216   | C11H20O4         | 001113-91-3  | 64   |
| 3         | 1-Amino-2-methylnaphthalene         | 157   | C11H11N          | 002246-44-8  | 50   |
| 4         | Piperazine-1-carboxylic acid, 4-... | 362   | C14H19ClN2O5S    | 1000303-80-2 | 40   |
| 5         | Adipic acid, isobutyl 3-(2-metho... | 358   | C20H38O5         | 1000324-28-7 | 38   |



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| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                  |       |         |       |          | #                     | RT    | Resp   | Conc |
| unknown7.55      | 7.55  | 59.7    | ng    | 493802   | 1                     | 8.01  | 165491 | 20.0 |
| Triethyl citrate | 15.92 | 5.0     | ng    | 79781    | 3                     | 14.64 | 315934 | 20.0 |