

Data Path : Z:\HPCHEM1\BNA M\DATA\BM012918\  
 Data File : BM013987.D  
 Acq On : 30 Jan 2018 08:40  
 Operator : SJ/JU  
 Sample : J1244-12DL 5X  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F6B53DL

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 1 % 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\_M\METHODS\SOM-EPA-BM011018.M  
 Title : SVOA 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         | 6.763       | 631           | 642         | 658          | rBV2     | 67121          | 180084        | 8.08%           | 0.792%        |
| 2         | 6.922       | 663           | 669         | 675          | rBV2     | 53687          | 95757         | 4.30%           | 0.421%        |
| 3         | 7.110       | 695           | 701         | 708          | rBV2     | 90126          | 155310        | 6.97%           | 0.683%        |
| 4         | 7.569       | 773           | 779         | 790          | rBV      | 396066         | 712474        | 31.96%          | 3.134%        |
| 5         | 8.292       | 897           | 902         | 914          | rBV2     | 72128          | 173030        | 7.76%           | 0.761%        |
| 6         | 8.733       | 971           | 977         | 988          | rBV3     | 76318          | 164482        | 7.38%           | 0.724%        |
| 7         | 9.451       | 1093          | 1099        | 1106         | rBV4     | 62890          | 130416        | 5.85%           | 0.574%        |
| 8         | 9.998       | 1184          | 1192        | 1204         | rBV4     | 69958          | 183178        | 8.22%           | 0.806%        |
| 9         | 10.339      | 1242          | 1250        | 1255         | rBV      | 543124         | 928179        | 41.64%          | 4.083%        |
| 10        | 10.392      | 1255          | 1259        | 1267         | rVB2     | 200206         | 354654        | 15.91%          | 1.560%        |
| 11        | 10.516      | 1273          | 1280        | 1290         | rBV5     | 62936          | 157306        | 7.06%           | 0.692%        |
| 12        | 12.016      | 1529          | 1535        | 1552         | rBV      | 235514         | 453737        | 20.36%          | 1.996%        |
| 13        | 12.239      | 1564          | 1573        | 1580         | rBV2     | 119207         | 222763        | 9.99%           | 0.980%        |
| 14        | 13.051      | 1703          | 1711        | 1721         | rBV2     | 62526          | 127301        | 5.71%           | 0.560%        |
| 15        | 13.251      | 1740          | 1745        | 1748         | rBV      | 23215          | 39653         | 1.78%           | 0.174%        |
| 16        | 13.386      | 1760          | 1768        | 1778         | rBV5     | 36979          | 102846        | 4.61%           | 0.452%        |
| 17        | 13.539      | 1789          | 1794        | 1799         | rBV2     | 53612          | 95736         | 4.29%           | 0.421%        |
| 18        | 13.598      | 1799          | 1804        | 1807         | rVV2     | 31321          | 43153         | 1.94%           | 0.190%        |
| 19        | 13.645      | 1807          | 1812        | 1816         | rVV      | 201998         | 302122        | 13.55%          | 1.329%        |
| 20        | 13.692      | 1816          | 1820        | 1829         | rVB      | 74363          | 116402        | 5.22%           | 0.512%        |
| 21        | 13.910      | 1850          | 1857        | 1867         | rBV      | 241954         | 414671        | 18.60%          | 1.824%        |
| 22        | 14.221      | 1903          | 1910        | 1916         | rBV2     | 837580         | 1313496       | 58.93%          | 5.778%        |
| 23        | 14.286      | 1916          | 1921        | 1926         | rVB      | 421138         | 590483        | 26.49%          | 2.597%        |
| 24        | 14.504      | 1954          | 1958        | 1959         | rBV3     | 16951          | 22441         | 1.01%           | 0.099%        |
| 25        | 14.527      | 1959          | 1962        | 1968         | rVB5     | 24002          | 47778         | 2.14%           | 0.210%        |
| 26        | 14.627      | 1973          | 1979        | 1987         | rVV      | 247309         | 394183        | 17.68%          | 1.734%        |
| 27        | 15.221      | 2074          | 2080        | 2085         | rBV      | 340994         | 486375        | 21.82%          | 2.140%        |
| 28        | 15.280      | 2085          | 2090        | 2098         | rVB      | 354625         | 545946        | 24.49%          | 2.402%        |
| 29        | 15.380      | 2102          | 2107        | 2109         | rBV3     | 51209          | 75747         | 3.40%           | 0.333%        |
| 30        | 15.445      | 2114          | 2118        | 2123         | rVB3     | 46996          | 72257         | 3.24%           | 0.318%        |
| 31        | 15.533      | 2129          | 2133        | 2136         | rBV4     | 17683          | 23653         | 1.06%           | 0.104%        |
| 32        | 15.580      | 2136          | 2141        | 2151         | rVB3     | 48974          | 90609         | 4.06%           | 0.399%        |
| 33        | 15.727      | 2162          | 2166        | 2173         | rVV2     | 49284          | 105832        | 4.75%           | 0.466%        |
| 34        | 15.951      | 2198          | 2204        | 2206         | rBV2     | 17638          | 25829         | 1.16%           | 0.114%        |

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 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F6B53DL

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 1 % 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\_M\METHODS\SOM-EPA-BM011018.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 16.074 | 2220 | 2225 | 2231 | rVB5 | 19020   | 30300   | 1.36%   | 0.133% |
| 36 | 16.292 | 2255 | 2262 | 2266 | rVB5 | 30177   | 57619   | 2.58%   | 0.253% |
| 37 | 16.433 | 2281 | 2286 | 2291 | rVB7 | 16406   | 29554   | 1.33%   | 0.130% |
| 38 | 16.515 | 2291 | 2300 | 2303 | rBV6 | 12668   | 32094   | 1.44%   | 0.141% |
| 39 | 16.715 | 2329 | 2334 | 2335 | rBV4 | 16437   | 22330   | 1.00%   | 0.098% |
| 40 | 16.798 | 2343 | 2348 | 2355 | rVB  | 82132   | 120621  | 5.41%   | 0.531% |
| 41 | 16.974 | 2373 | 2378 | 2382 | rBV  | 1088060 | 1576118 | 70.71%  | 6.933% |
| 42 | 17.015 | 2382 | 2385 | 2391 | rVV  | 1335177 | 1905481 | 85.48%  | 8.382% |
| 43 | 17.074 | 2391 | 2395 | 2400 | rVV  | 339433  | 589029  | 26.43%  | 2.591% |
| 44 | 17.115 | 2400 | 2402 | 2412 | rVB  | 134638  | 181568  | 8.15%   | 0.799% |
| 45 | 17.398 | 2442 | 2450 | 2461 | rBV  | 31210   | 76043   | 3.41%   | 0.335% |
| 46 | 17.498 | 2461 | 2467 | 2474 | rBV6 | 16711   | 40155   | 1.80%   | 0.177% |
| 47 | 17.856 | 2519 | 2528 | 2530 | rBV  | 77151   | 109581  | 4.92%   | 0.482% |
| 48 | 17.903 | 2530 | 2536 | 2544 | rVV2 | 103445  | 236150  | 10.59%  | 1.039% |
| 49 | 17.992 | 2547 | 2551 | 2555 | rVV  | 32370   | 50943   | 2.29%   | 0.224% |
| 50 | 18.051 | 2555 | 2561 | 2565 | rVV  | 150483  | 247017  | 11.08%  | 1.087% |
| 51 | 18.086 | 2565 | 2567 | 2574 | rVB3 | 38061   | 58265   | 2.61%   | 0.256% |
| 52 | 18.362 | 2609 | 2614 | 2620 | rBV  | 58490   | 93090   | 4.18%   | 0.409% |
| 53 | 18.786 | 2681 | 2686 | 2688 | rBV3 | 20000   | 27660   | 1.24%   | 0.122% |
| 54 | 19.045 | 2722 | 2730 | 2739 | rBV  | 786624  | 1094663 | 49.11%  | 4.815% |
| 55 | 19.174 | 2748 | 2752 | 2756 | rVB7 | 18168   | 26693   | 1.20%   | 0.117% |
| 56 | 19.292 | 2765 | 2772 | 2781 | rBV5 | 18679   | 48427   | 2.17%   | 0.213% |
| 57 | 19.380 | 2781 | 2787 | 2790 | rBV  | 584886  | 938364  | 42.10%  | 4.128% |
| 58 | 19.409 | 2790 | 2792 | 2802 | rVV  | 502574  | 622223  | 27.91%  | 2.737% |
| 59 | 19.486 | 2803 | 2805 | 2811 | rVB5 | 21043   | 26483   | 1.19%   | 0.116% |
| 60 | 19.745 | 2845 | 2849 | 2855 | rBV8 | 29522   | 61657   | 2.77%   | 0.271% |
| 61 | 19.915 | 2874 | 2878 | 2883 | rVB2 | 68693   | 106907  | 4.80%   | 0.470% |
| 62 | 20.015 | 2891 | 2895 | 2899 | rBV  | 76128   | 107035  | 4.80%   | 0.471% |
| 63 | 20.074 | 2901 | 2905 | 2908 | rBV6 | 28717   | 37529   | 1.68%   | 0.165% |
| 64 | 20.862 | 3037 | 3039 | 3042 | rBV4 | 23402   | 22578   | 1.01%   | 0.099% |
| 65 | 20.903 | 3042 | 3046 | 3052 | rVV8 | 66636   | 122543  | 5.50%   | 0.539% |
| 66 | 21.180 | 3087 | 3093 | 3098 | rBV  | 1574516 | 2229052 | 100.00% | 9.805% |
| 67 | 21.339 | 3116 | 3120 | 3124 | rBV6 | 38138   | 60959   | 2.73%   | 0.268% |
| 68 | 23.221 | 3435 | 3440 | 3453 | rVB  | 382486  | 889989  | 39.93%  | 3.915% |
| 69 | 23.362 | 3457 | 3464 | 3472 | rVV  | 1011240 | 1906337 | 85.52%  | 8.386% |

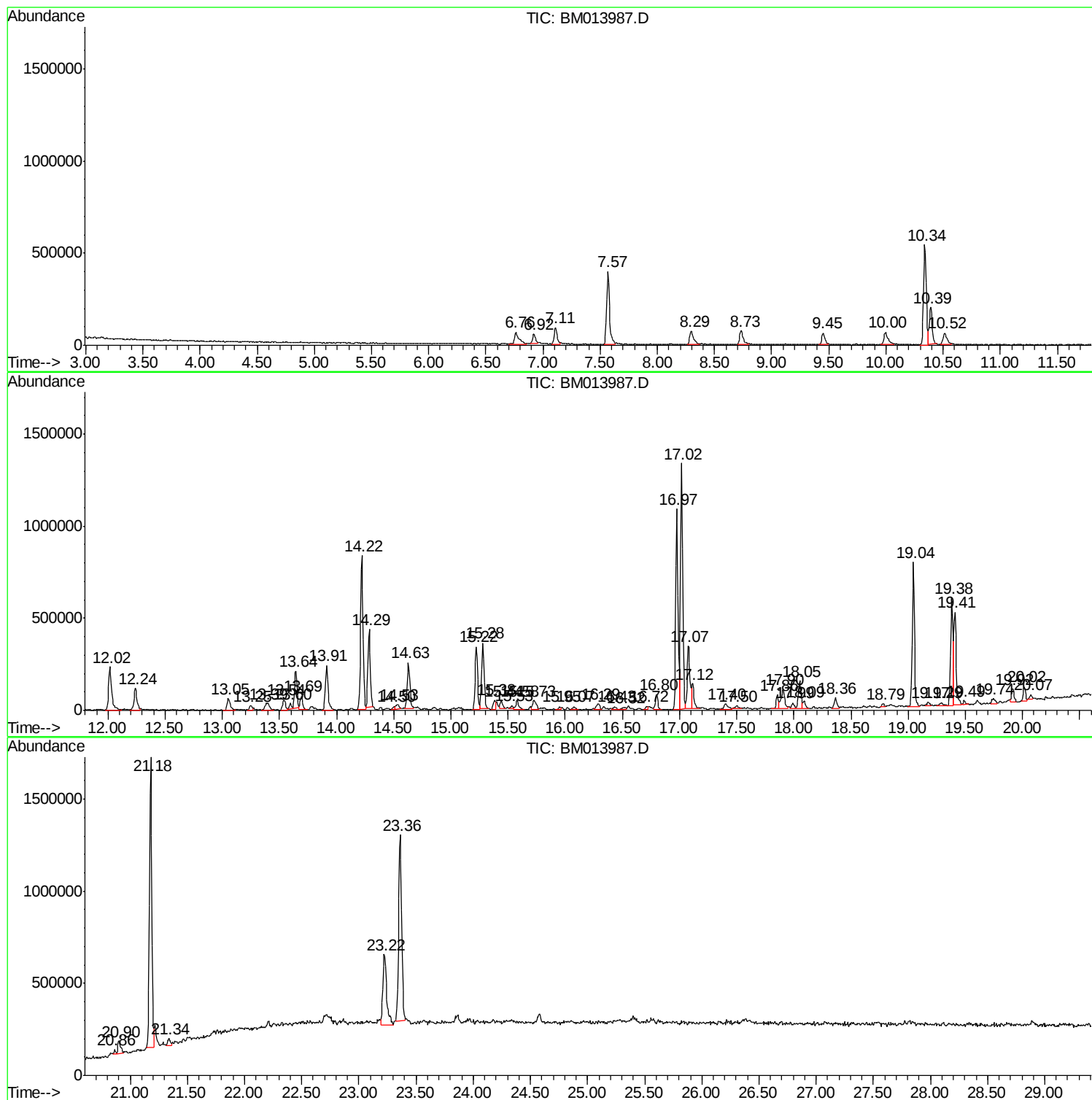
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Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA M\DATA\BM012918\  
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Instrument :  
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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

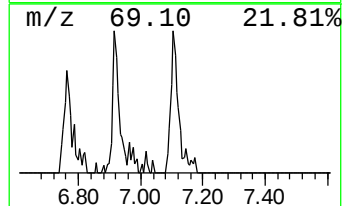
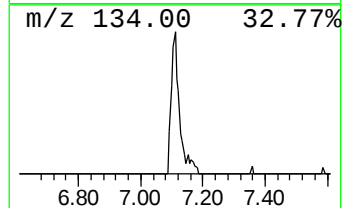
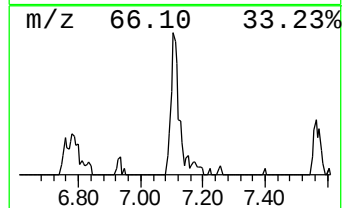
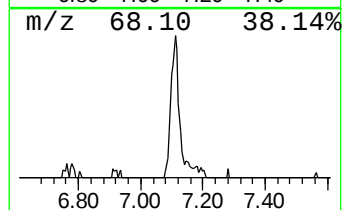
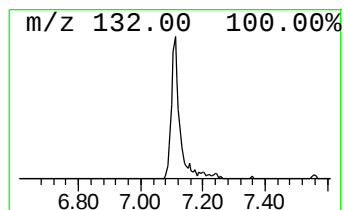
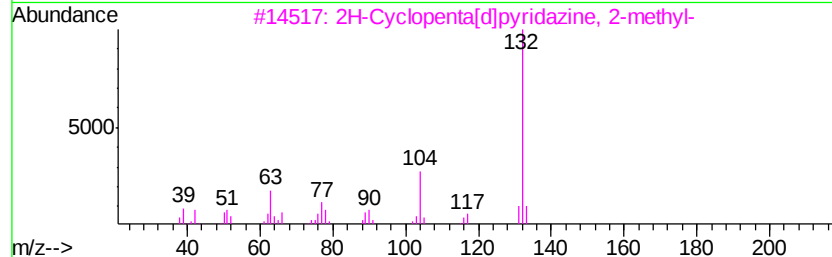
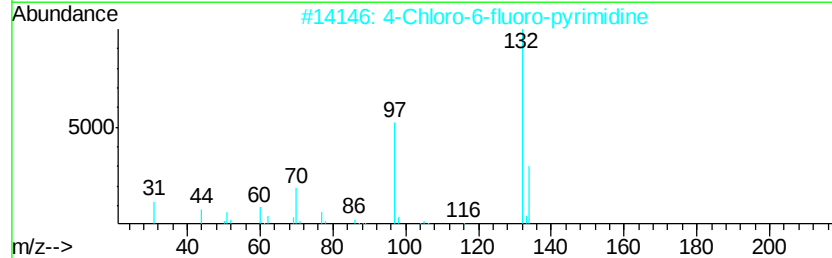
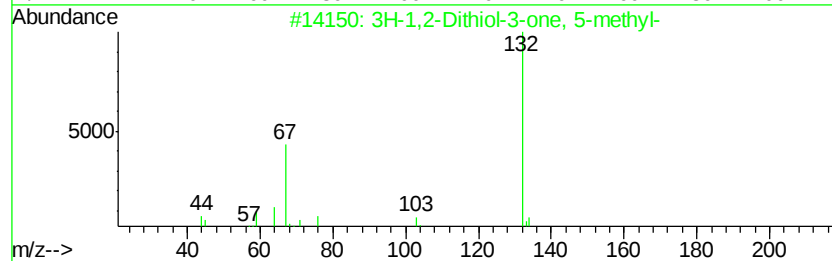
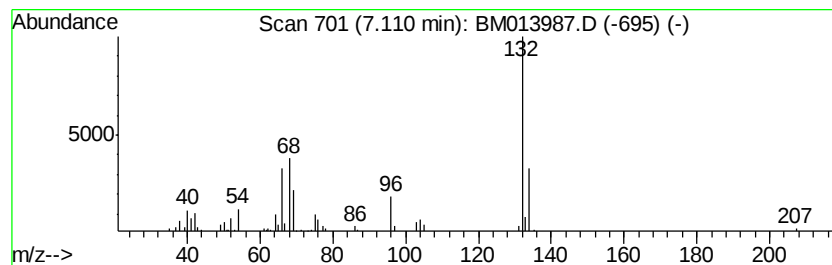
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 unknown-01 Concentration Rank 2

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 7.11 | 4.36 ng/ul | 155310 | 1,4-Dichlorobenzene-d4 | 7.57 |

| Hit# | of                                     | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|----------------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 3H-1,2-Dithiol-3-one, 5-methyl-        | 132 | C4H4OS2      | 003620-08-4 | 27      |      |      |
| 2    | 4-Chloro-6-fluoro-pyrimidine           | 132 | C4H2ClFN2    | 051422-01-6 | 27      |      |      |
| 3    | 2H-Cyclopentaf[d]pyridazine, 2-methyl- | 132 | C8H8N2       | 022291-85-6 | 22      |      |      |
| 4    | 1H-Benzimidazole, 2-methyl-            | 132 | C8H8N2       | 000615-15-6 | 22      |      |      |
| 5    | 1H-Benzimidazole, 2-methyl-            | 132 | C8H8N2       | 000615-15-6 | 22      |      |      |



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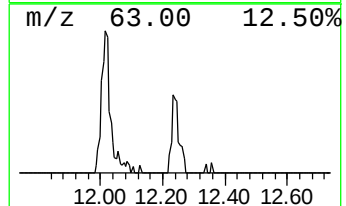
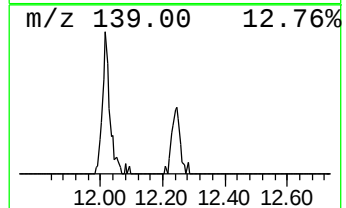
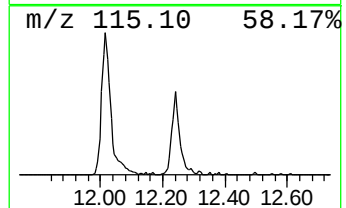
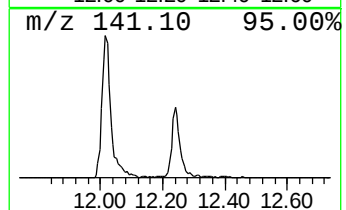
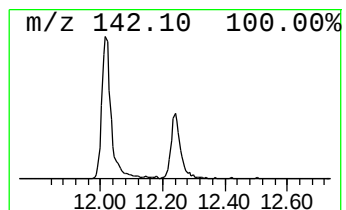
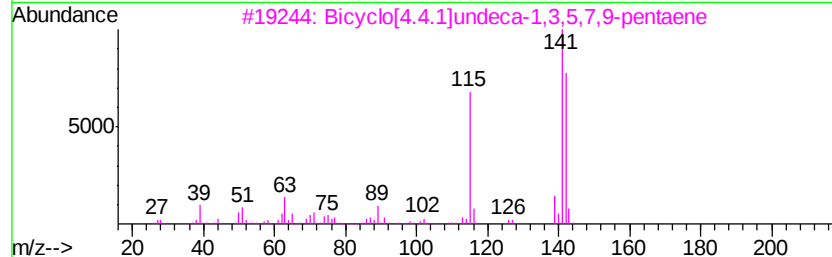
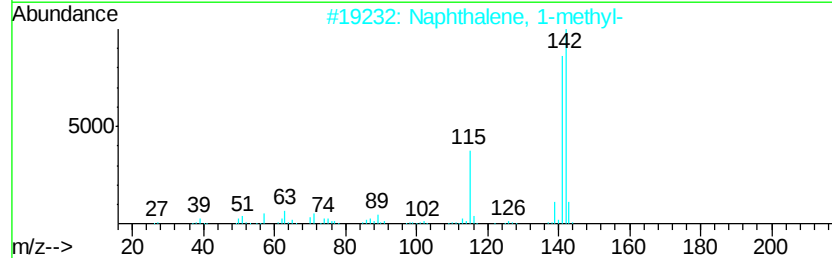
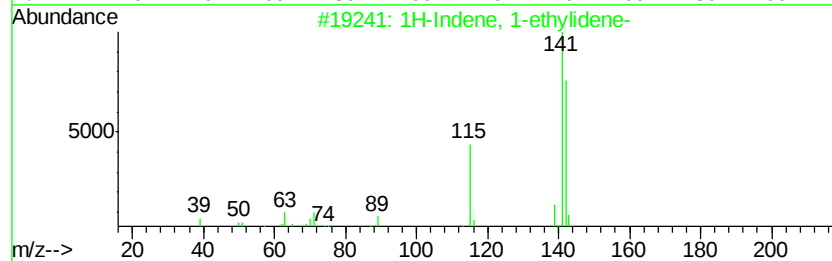
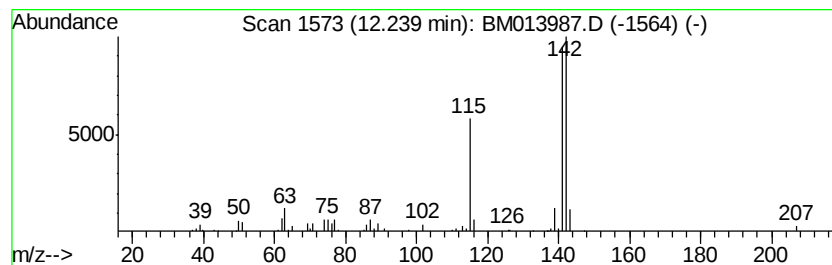
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 1H-Indene, 1-ethylidene- Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 12.24 | 4.80 ng/ul | 222763 | Naphthalene-d8   | 10.34 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 91   |
| 2    |    | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 91   |
| 3    |    | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10  | 002443-46-1 | 91   |
| 4    |    | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 87   |
| 5    |    | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 87   |



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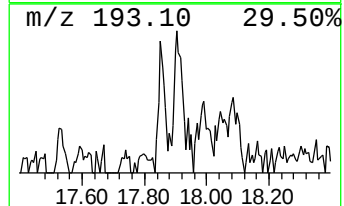
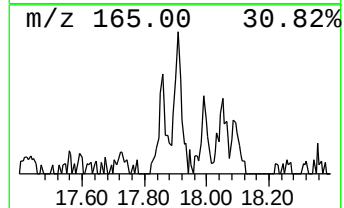
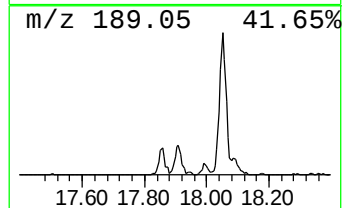
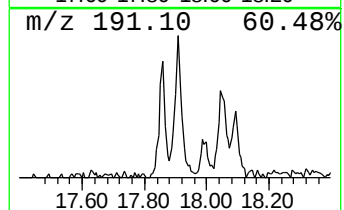
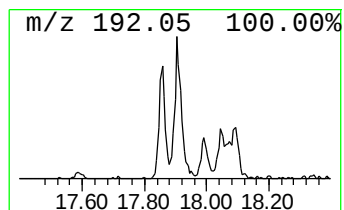
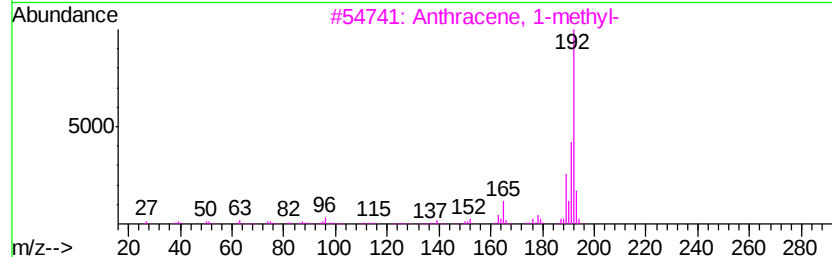
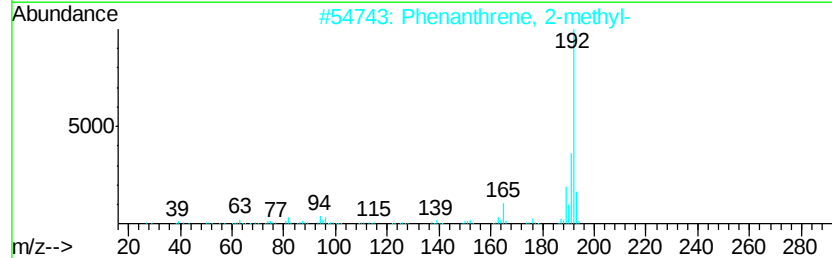
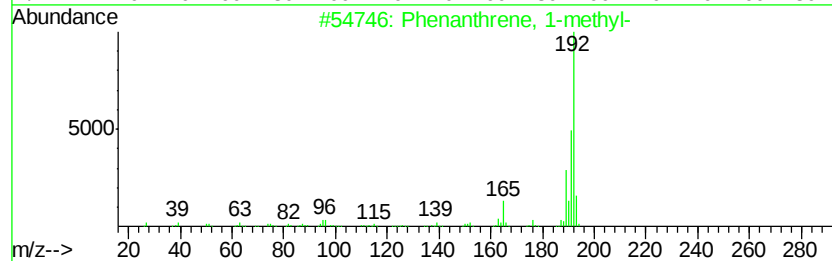
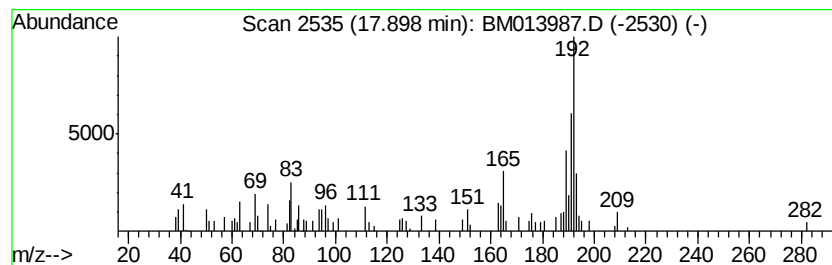
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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Phenanthrene, 1-methyl- Concentration Rank 4

| R.T.    | EstConc                 | Area         | Relative to ISTD | R.T.        |      |      |
|---------|-------------------------|--------------|------------------|-------------|------|------|
| 17.90   | 3.00 ng/ul              | 236150       | Phenanthrene-d10 | 16.97       |      |      |
| Hit# of | 5                       | Tentative ID | MW               | MolForm     | CAS# | Qual |
| 1       | Phenanthrene, 1-methyl- | 192          | C15H12           | 000832-69-9 | 93   |      |
| 2       | Phenanthrene, 2-methyl- | 192          | C15H12           | 002531-84-2 | 90   |      |
| 3       | Anthracene, 1-methyl-   | 192          | C15H12           | 000610-48-0 | 87   |      |
| 4       | Naphtho[2,3-b]norborene | 192          | C15H12           | 107426-38-0 | 87   |      |
| 5       | Anthracene, 1-methyl-   | 192          | C15H12           | 000610-48-0 | 87   |      |



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Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

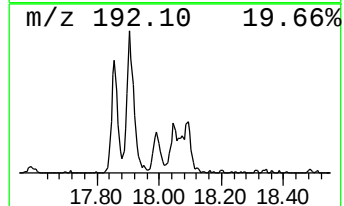
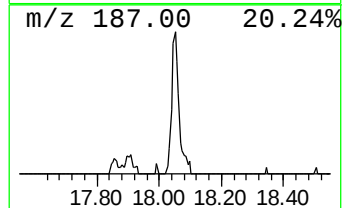
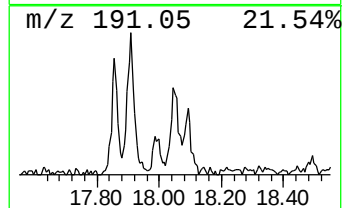
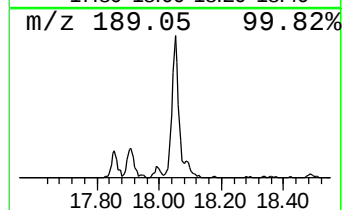
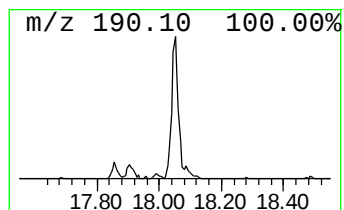
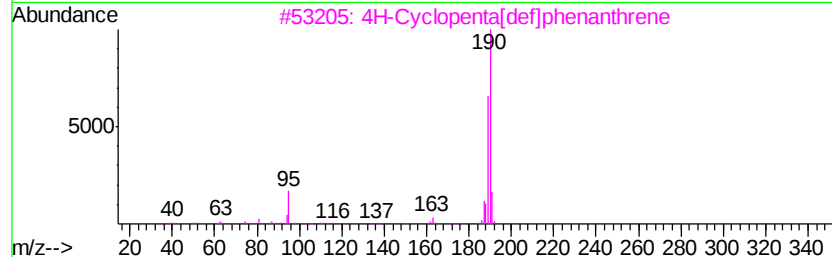
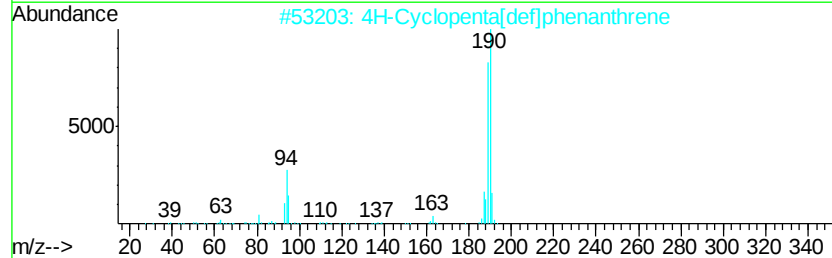
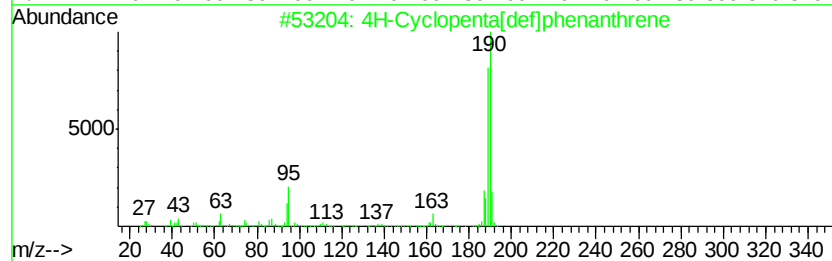
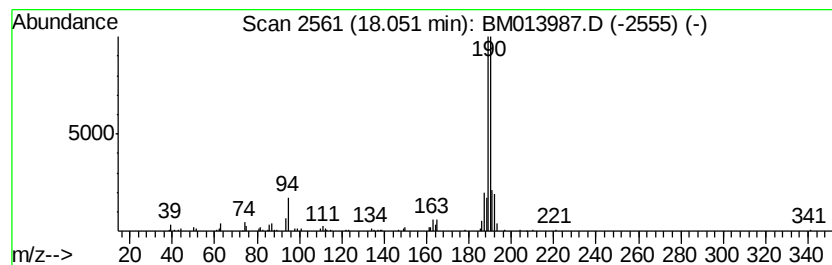
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.05 | 3.13 ng/ul | 247017 | Phenanthrene-d10 | 16.97 |

| Hit# | of | Tentative ID                   | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------|-----|----------|-------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10   | 000203-64-5 | 93   |
| 2    |    | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10   | 000203-64-5 | 90   |
| 3    |    | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10   | 000203-64-5 | 72   |
| 4    |    | 6H-Cyclobuta[flk]phenanthrene  | 190 | C15H10   | 083469-43-6 | 64   |
| 5    |    | Phenol, 4-(2-thienylmethyl)-   | 190 | C11H10OS | 091680-55-6 | 53   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM012918\  
Data File : BM013987.D  
Acq On : 30 Jan 2018 08:40  
Operator : SJ/JU  
Sample : J1244-12DL 5X  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F6B53DL

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM011018.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| unknown-01           | 7.11  | 4.4     | ng/ul | 155310   | 1                     | 7.57  | 712474  | 20.0 |
| 1H-Indene, 1-ethy... | 12.24 | 4.8     | ng/ul | 222763   | 2                     | 10.34 | 928179  | 20.0 |
| Phenanthrene, 1-m... | 17.90 | 3.0     | ng/ul | 236150   | 4                     | 16.97 | 1576120 | 20.0 |
| 4H-Cyclopenta[def... | 18.05 | 3.1     | ng/ul | 247017   | 4                     | 16.97 | 1576120 | 20.0 |