

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081816\  
 Data File : BG023769.D  
 Acq On : 18 Aug 2016 22:18  
 Operator : UM/SJ  
 Sample : H4460-15  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BD2T7

## Integration Parameters: LSCINT.P

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

Filtering: 5  
 Min Area: 0.1 % 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\_G\METHODS\SOM02.2-EPA-BG081816.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         | 4.606       | 296           | 301         | 304          | rBV6     | 5605           | 9786          | 0.28%           | 0.029%        |
| 2         | 5.164       | 391           | 396         | 397          | rBV5     | 8490           | 10122         | 0.29%           | 0.030%        |
| 3         | 5.270       | 410           | 414         | 419          | rBV5     | 2830           | 6324          | 0.18%           | 0.019%        |
| 4         | 5.405       | 436           | 437         | 442          | rVB3     | 4935           | 4853          | 0.14%           | 0.014%        |
| 5         | 5.593       | 465           | 469         | 473          | rVB5     | 8980           | 14618         | 0.42%           | 0.043%        |
| 6         | 5.851       | 511           | 513         | 517          | rVB4     | 3750           | 4949          | 0.14%           | 0.015%        |
| 7         | 5.886       | 517           | 519         | 522          | rBV2     | 3790           | 4781          | 0.14%           | 0.014%        |
| 8         | 6.174       | 565           | 568         | 572          | rBV2     | 3877           | 6250          | 0.18%           | 0.018%        |
| 9         | 6.268       | 582           | 584         | 591          | rBV6     | 3258           | 5708          | 0.16%           | 0.017%        |
| 10        | 6.715       | 654           | 660         | 662          | rBV5     | 7068           | 10020         | 0.29%           | 0.030%        |
| 11        | 6.956       | 693           | 701         | 702          | rBV4     | 4882           | 10539         | 0.30%           | 0.031%        |
| 12        | 7.255       | 746           | 752         | 762          | rVB      | 110390         | 198007        | 5.71%           | 0.585%        |
| 13        | 7.408       | 772           | 778         | 787          | rBV      | 416075         | 687420        | 19.81%          | 2.030%        |
| 14        | 7.625       | 807           | 815         | 830          | rVB      | 394016         | 720307        | 20.76%          | 2.127%        |
| 15        | 8.095       | 888           | 895         | 901          | rBV      | 384292         | 669741        | 19.30%          | 1.978%        |
| 16        | 8.142       | 901           | 903         | 908          | rVB4     | 24107          | 29243         | 0.84%           | 0.086%        |
| 17        | 8.812       | 1009          | 1017        | 1027         | rBV      | 319476         | 573216        | 16.52%          | 1.693%        |
| 18        | 8.929       | 1034          | 1037        | 1044         | rVB3     | 15261          | 28714         | 0.83%           | 0.085%        |
| 19        | 9.200       | 1077          | 1083        | 1089         | rBV      | 89260          | 157864        | 4.55%           | 0.466%        |
| 20        | 9.270       | 1089          | 1095        | 1105         | rVB      | 507249         | 909273        | 26.20%          | 2.685%        |
| 21        | 9.388       | 1110          | 1115        | 1121         | rBV3     | 27603          | 52936         | 1.53%           | 0.156%        |
| 22        | 9.552       | 1140          | 1143        | 1147         | rVB4     | 4718           | 5194          | 0.15%           | 0.015%        |
| 23        | 10.004      | 1213          | 1220        | 1231         | rBV      | 432365         | 812044        | 23.40%          | 2.398%        |
| 24        | 10.374      | 1282          | 1283        | 1288         | rBV4     | 5392           | 6747          | 0.19%           | 0.020%        |
| 25        | 10.551      | 1306          | 1313        | 1327         | rBV      | 523473         | 1067943       | 30.78%          | 3.154%        |
| 26        | 10.692      | 1333          | 1337        | 1338         | rBV4     | 7075           | 9367          | 0.27%           | 0.028%        |
| 27        | 10.833      | 1356          | 1361        | 1363         | rBV6     | 5776           | 8512          | 0.25%           | 0.025%        |
| 28        | 10.927      | 1369          | 1377        | 1390         | rBV      | 533293         | 1000858       | 28.84%          | 2.956%        |
| 29        | 11.073      | 1396          | 1402        | 1410         | rBV4     | 40796          | 82736         | 2.38%           | 0.244%        |
| 30        | 11.173      | 1416          | 1419        | 1424         | rVB5     | 4731           | 7624          | 0.22%           | 0.023%        |
| 31        | 11.214      | 1424          | 1426        | 1428         | rBV3     | 4736           | 5678          | 0.16%           | 0.017%        |
| 32        | 11.426      | 1459          | 1462        | 1465         | rBV5     | 3866           | 5953          | 0.17%           | 0.018%        |
| 33        | 11.526      | 1477          | 1479        | 1483         | rVB2     | 4602           | 5500          | 0.16%           | 0.016%        |
| 34        | 11.590      | 1487          | 1490        | 1497         | rVB3     | 10391          | 20372         | 0.59%           | 0.060%        |

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 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

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Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG081816.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.714 | 1508 | 1511 | 1513 | rBV2 | 3632    | 4640    | 0.13%  | 0.014% |
| 36 | 11.908 | 1540 | 1544 | 1545 | rBV2 | 4805    | 4869    | 0.14%  | 0.014% |
| 37 | 11.990 | 1554 | 1558 | 1559 | rVB3 | 4083    | 4760    | 0.14%  | 0.014% |
| 38 | 12.096 | 1569 | 1576 | 1581 | rVB7 | 6907    | 14853   | 0.43%  | 0.044% |
| 39 | 12.154 | 1584 | 1586 | 1590 | rVB4 | 5476    | 6507    | 0.19%  | 0.019% |
| 40 | 12.248 | 1596 | 1602 | 1610 | rBV3 | 23259   | 50003   | 1.44%  | 0.148% |
| 41 | 12.413 | 1626 | 1630 | 1634 | rVB4 | 7886    | 10362   | 0.30%  | 0.031% |
| 42 | 12.448 | 1634 | 1636 | 1642 | rVB5 | 3236    | 6859    | 0.20%  | 0.020% |
| 43 | 12.513 | 1642 | 1647 | 1653 | rBV3 | 12588   | 24907   | 0.72%  | 0.074% |
| 44 | 12.648 | 1666 | 1670 | 1676 | rVB3 | 7362    | 10153   | 0.29%  | 0.030% |
| 45 | 12.742 | 1681 | 1686 | 1689 | rVB3 | 6311    | 10313   | 0.30%  | 0.030% |
| 46 | 12.824 | 1697 | 1700 | 1703 | rBV3 | 4716    | 4617    | 0.13%  | 0.014% |
| 47 | 13.106 | 1740 | 1748 | 1757 | rBV  | 70313   | 134506  | 3.88%  | 0.397% |
| 48 | 13.353 | 1783 | 1790 | 1801 | rBV  | 193935  | 295112  | 8.50%  | 0.872% |
| 49 | 13.494 | 1812 | 1814 | 1817 | rBV2 | 4639    | 4958    | 0.14%  | 0.015% |
| 50 | 13.635 | 1833 | 1838 | 1843 | rBV6 | 14579   | 24489   | 0.71%  | 0.072% |
| 51 | 13.705 | 1845 | 1850 | 1857 | rVB6 | 11429   | 24027   | 0.69%  | 0.071% |
| 52 | 14.046 | 1907 | 1908 | 1914 | rVB6 | 4886    | 6079    | 0.18%  | 0.018% |
| 53 | 14.163 | 1916 | 1928 | 1939 | rBV  | 1309448 | 1906207 | 54.93% | 5.630% |
| 54 | 14.457 | 1971 | 1978 | 1988 | rBV  | 1280094 | 2086982 | 60.14% | 6.163% |
| 55 | 14.639 | 2006 | 2009 | 2010 | rBV2 | 4268    | 4709    | 0.14%  | 0.014% |
| 56 | 14.768 | 2023 | 2031 | 2039 | rBV2 | 858340  | 1427667 | 41.14% | 4.216% |
| 57 | 14.833 | 2039 | 2042 | 2046 | rVB3 | 23015   | 31162   | 0.90%  | 0.092% |
| 58 | 15.009 | 2067 | 2072 | 2084 | rBV3 | 59841   | 153009  | 4.41%  | 0.452% |
| 59 | 15.344 | 2123 | 2129 | 2133 | rBV  | 21938   | 30557   | 0.88%  | 0.090% |
| 60 | 15.432 | 2136 | 2144 | 2149 | rBV6 | 21366   | 57626   | 1.66%  | 0.170% |
| 61 | 15.497 | 2150 | 2155 | 2159 | rVV  | 84969   | 130495  | 3.76%  | 0.385% |
| 62 | 15.538 | 2159 | 2162 | 2165 | rVV2 | 14000   | 24365   | 0.70%  | 0.072% |
| 63 | 15.567 | 2165 | 2167 | 2174 | rVB  | 21616   | 27998   | 0.81%  | 0.083% |
| 64 | 15.691 | 2186 | 2188 | 2193 | rBV4 | 8119    | 9677    | 0.28%  | 0.029% |
| 65 | 15.761 | 2193 | 2200 | 2209 | rVB  | 1755020 | 2694615 | 77.65% | 7.958% |
| 66 | 15.896 | 2216 | 2223 | 2230 | rBV  | 590162  | 954035  | 27.49% | 2.818% |
| 67 | 16.002 | 2237 | 2241 | 2245 | rVB2 | 26186   | 38670   | 1.11%  | 0.114% |
| 68 | 16.125 | 2256 | 2262 | 2272 | rVB  | 60228   | 97388   | 2.81%  | 0.288% |
| 69 | 16.372 | 2302 | 2304 | 2313 | rVB7 | 9554    | 16935   | 0.49%  | 0.050% |
| 70 | 16.719 | 2359 | 2363 | 2368 | rVB5 | 4681    | 8423    | 0.24%  | 0.025% |
| 71 | 16.919 | 2394 | 2397 | 2400 | rBV5 | 4036    | 5069    | 0.15%  | 0.015% |

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|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 72 | 17.101 | 2425 | 2428 | 2434 | rVB4 | 11775   | 17002   | 0.49%   | 0.050%  |
| 73 | 17.277 | 2454 | 2458 | 2461 | rBV2 | 6034    | 7771    | 0.22%   | 0.023%  |
| 74 | 17.477 | 2487 | 2492 | 2493 | rBV3 | 4675    | 6893    | 0.20%   | 0.020%  |
| 75 | 17.529 | 2494 | 2501 | 2511 | rVV  | 1217178 | 1784242 | 51.42%  | 5.269%  |
| 76 | 17.629 | 2511 | 2518 | 2532 | rVV  | 1897280 | 2930567 | 84.45%  | 8.655%  |
| 77 | 17.782 | 2542 | 2544 | 2546 | rBV3 | 7645    | 6086    | 0.18%   | 0.018%  |
| 78 | 17.853 | 2552 | 2556 | 2557 | rBV2 | 5805    | 6886    | 0.20%   | 0.020%  |
| 79 | 18.182 | 2605 | 2612 | 2618 | rBV2 | 546595  | 681937  | 19.65%  | 2.014%  |
| 80 | 18.352 | 2637 | 2641 | 2645 | rVB6 | 8050    | 12281   | 0.35%   | 0.036%  |
| 81 | 18.405 | 2645 | 2650 | 2655 | rBV7 | 15473   | 28906   | 0.83%   | 0.085%  |
| 82 | 18.481 | 2661 | 2663 | 2666 | rVB3 | 6479    | 6152    | 0.18%   | 0.018%  |
| 83 | 18.510 | 2666 | 2668 | 2672 | rBV4 | 7047    | 9023    | 0.26%   | 0.027%  |
| 84 | 18.663 | 2691 | 2694 | 2700 | rVB5 | 17587   | 25659   | 0.74%   | 0.076%  |
| 85 | 18.922 | 2733 | 2738 | 2739 | rBV5 | 6936    | 10867   | 0.31%   | 0.032%  |
| 86 | 19.221 | 2787 | 2789 | 2790 | rVB2 | 7887    | 4657    | 0.13%   | 0.014%  |
| 87 | 19.245 | 2790 | 2793 | 2794 | rBV3 | 5862    | 6611    | 0.19%   | 0.020%  |
| 88 | 19.556 | 2842 | 2846 | 2852 | rBV3 | 29286   | 46456   | 1.34%   | 0.137%  |
| 89 | 19.809 | 2886 | 2889 | 2894 | rBV2 | 25434   | 33905   | 0.98%   | 0.100%  |
| 90 | 19.920 | 2902 | 2908 | 2915 | rBV  | 2392554 | 3470016 | 100.00% | 10.248% |
| 91 | 21.847 | 3229 | 3236 | 3244 | rVB  | 1240843 | 2132530 | 61.46%  | 6.298%  |
| 92 | 24.990 | 3761 | 3771 | 3783 | rVB2 | 1081072 | 3104912 | 89.48%  | 9.170%  |
| 93 | 25.219 | 3801 | 3810 | 3829 | rVB3 | 661218  | 2026644 | 58.40%  | 5.985%  |

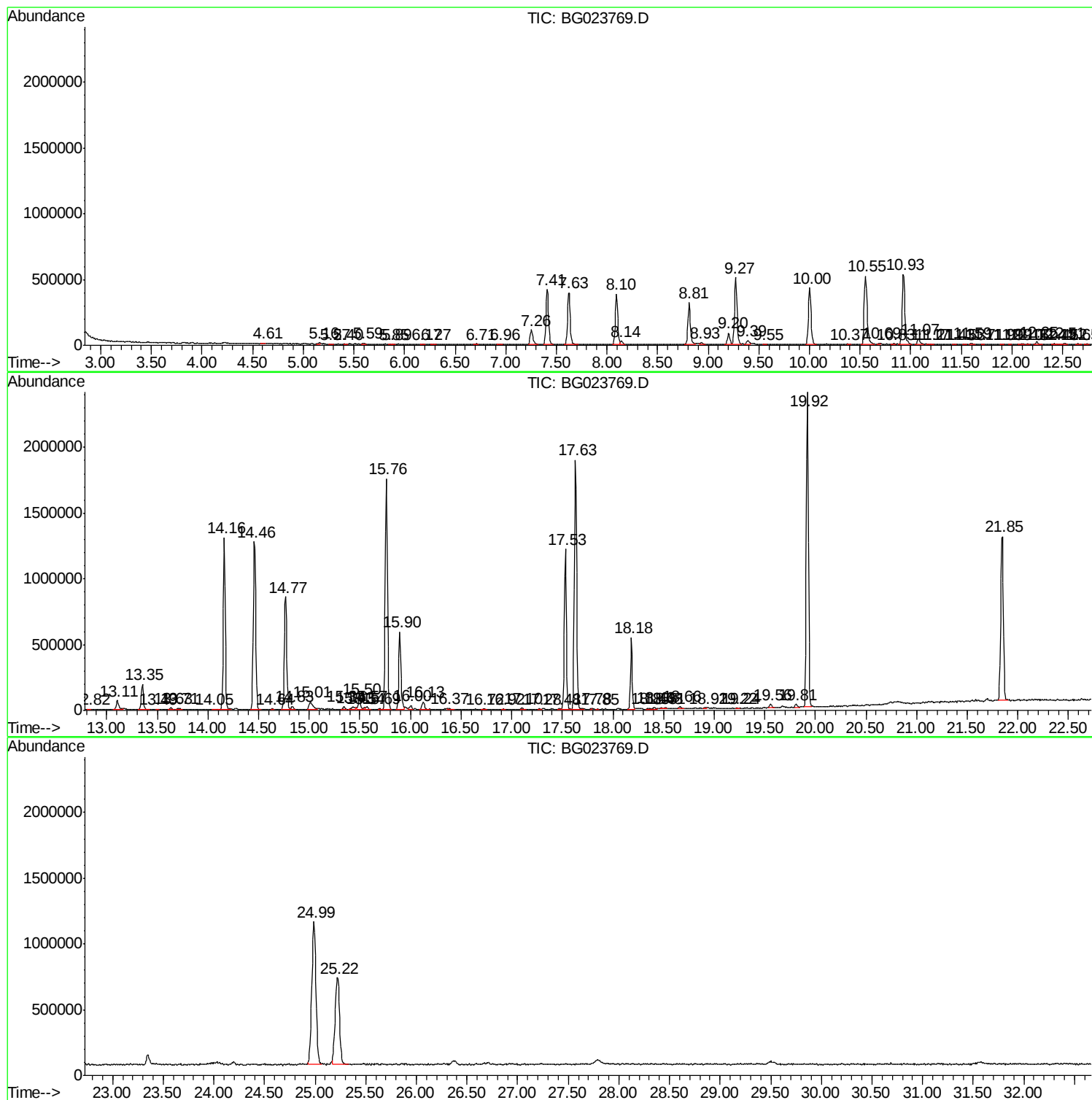
Sum of corrected areas: 33860805

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG081816.M  
Quant Title : SVOA CALIBRATION

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



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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG081816.M  
Quant Title : SVOA CALIBRATION

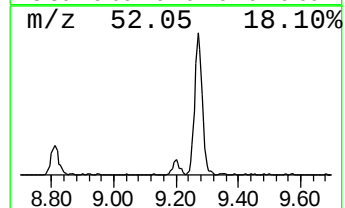
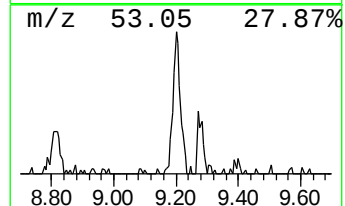
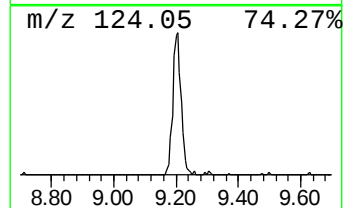
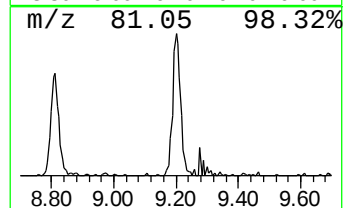
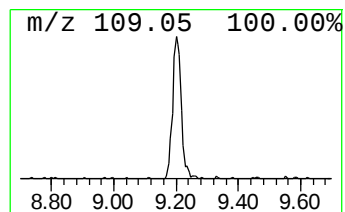
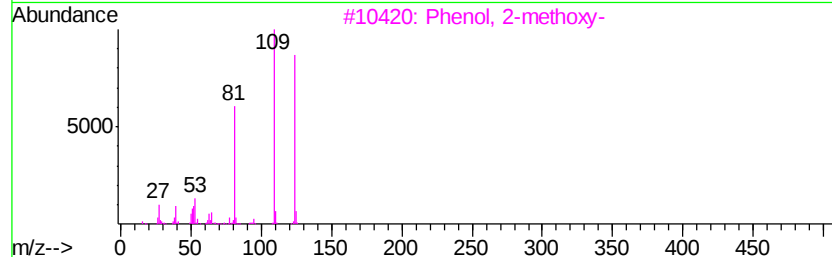
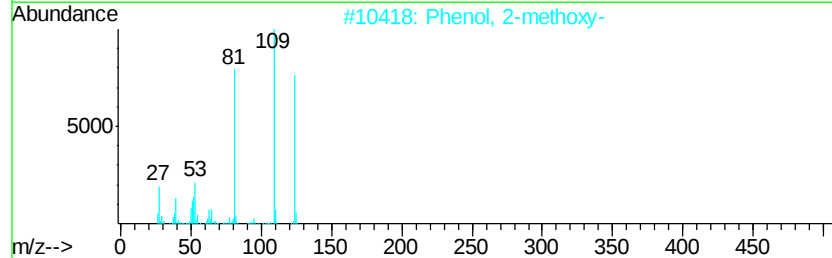
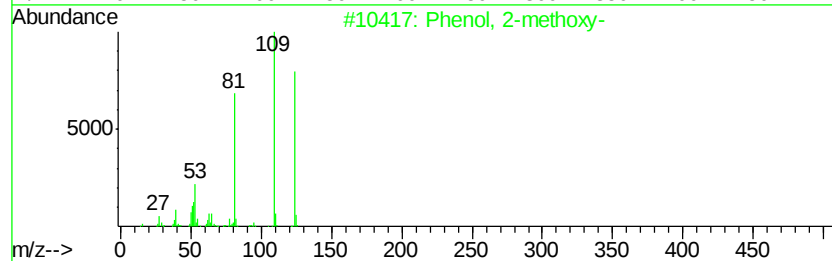
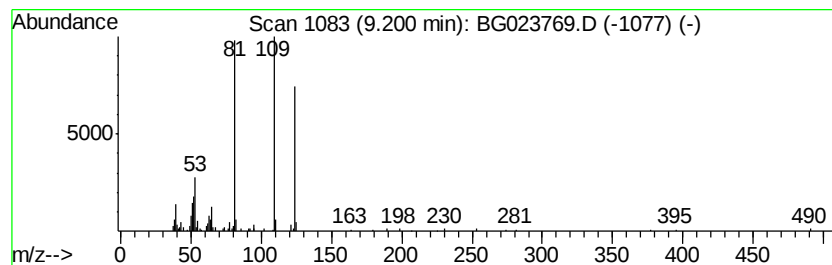
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 Phenol, 2-methoxy- Concentration Rank 2

| R.T. | EstConc    | Area   | Relative to ISTD       | R.T. |
|------|------------|--------|------------------------|------|
| 9.20 | 4.71 ng/ul | 157864 | 1,4-Dichlorobenzene-d4 | 8.10 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenol, 2-methoxy-               | 124 | C7H8O2  | 000090-05-1 | 97   |
| 2    |    | Phenol, 2-methoxy-               | 124 | C7H8O2  | 000090-05-1 | 93   |
| 3    |    | Phenol, 2-methoxy-               | 124 | C7H8O2  | 000090-05-1 | 87   |
| 4    |    | Phenol, 2-methoxy-               | 124 | C7H8O2  | 000090-05-1 | 86   |
| 5    |    | Ethanone, 1-(1-cyclohexen-1-yl)- | 124 | C8H12O  | 000932-66-1 | 83   |



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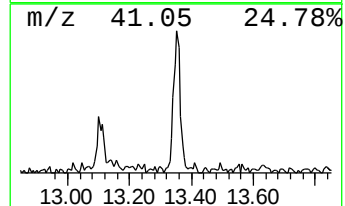
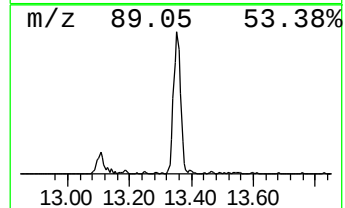
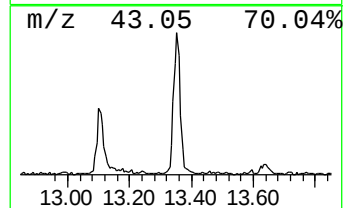
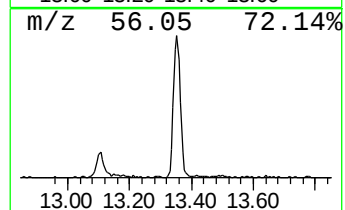
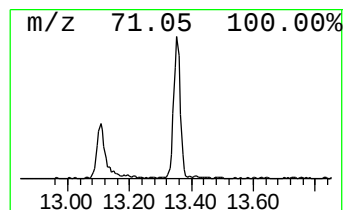
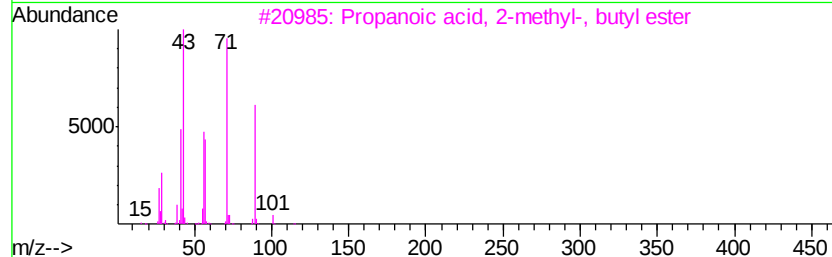
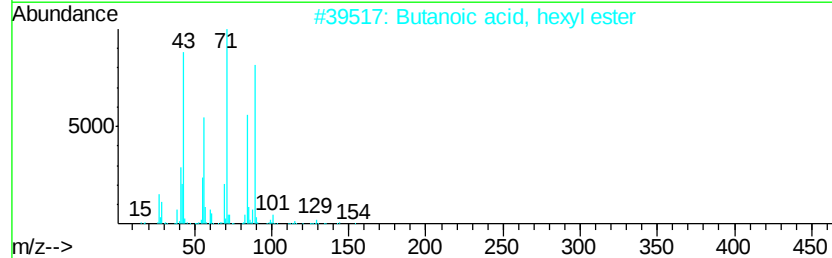
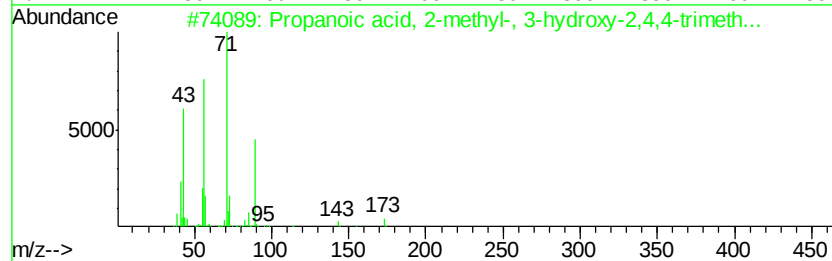
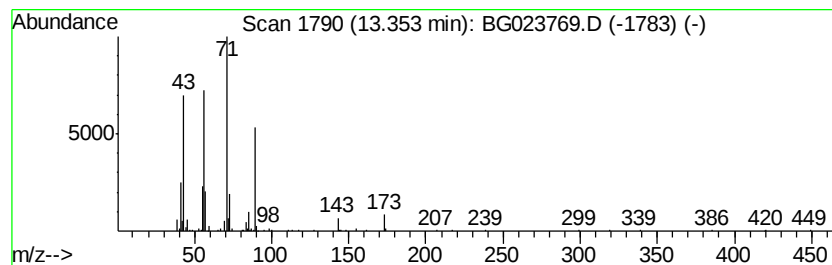
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Propanoic acid, 2-methyl-, ... Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 13.35 | 4.13 ng/ul | 295112 | Acenaphthene-d10 | 14.77 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Propanoic acid, 2-methyl-, 3-hyd... | 216 | C12H24O3 | 074367-34-3 | 91   |
| 2    |    | Butanoic acid, hexyl ester          | 172 | C10H20O2 | 002639-63-6 | 72   |
| 3    |    | Propanoic acid, 2-methyl-, butyl... | 144 | C8H16O2  | 000097-87-0 | 64   |
| 4    |    | Propanoic acid, 2-methyl-, 2-eth... | 216 | C12H24O3 | 074367-31-0 | 56   |
| 5    |    | Butanoic acid, butyl ester          | 144 | C8H16O2  | 000109-21-7 | 50   |



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Quant Title : SVOA CALIBRATION

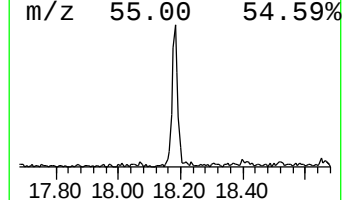
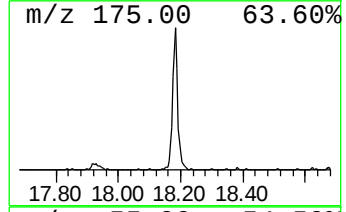
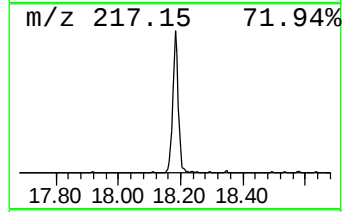
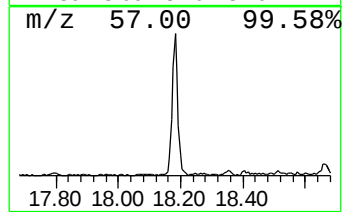
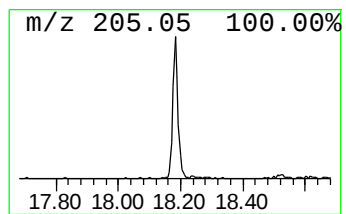
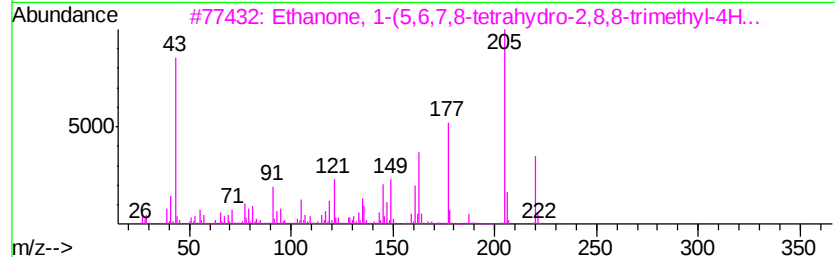
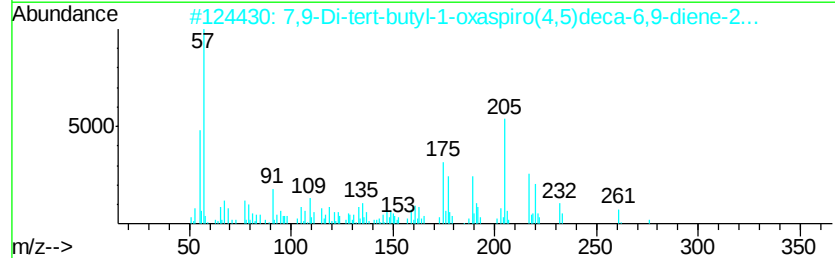
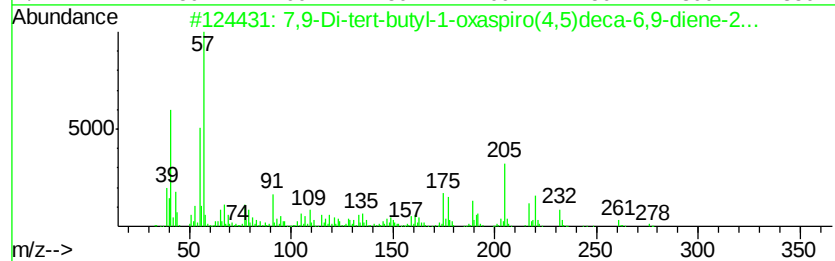
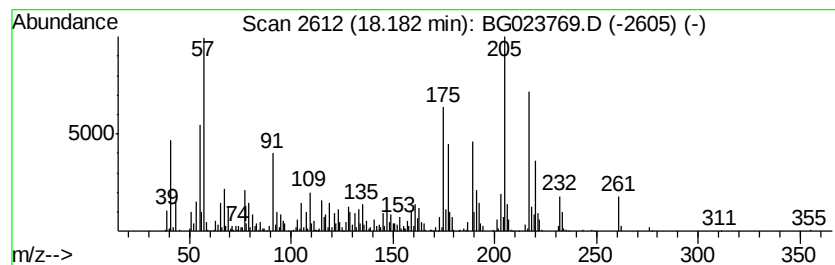
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 7,9-Di-tert-butyl-1-oxaspiro... Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.18 | 7.64 ng/ul | 681937 | Phenanthrene-d10 | 17.53 |

| Hit# | of | Tentative ID                                          | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2-one | 276 | C17H24O3 | 082304-66-3 | 95   |
| 2    |    | 7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2-one | 276 | C17H24O3 | 082304-66-3 | 94   |
| 3    |    | Ethanone, 1-(5,6,7,8-tetrahydro-2H-benzopyran-6-yl)-  | 220 | C14H20O2 | 071596-88-8 | 64   |
| 4    |    | 1,3-Pentadiene, 1,1-diphenyl-, (Z)-                   | 220 | C17H16   | 015295-31-5 | 38   |
| 5    |    | 2H-1-Benzopyran, 6,7-dimethoxy-2-methyl-              | 220 | C13H16O3 | 000644-06-4 | 30   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081816\  
Data File : BG023769.D  
Acq On : 18 Aug 2016 22:18  
Operator : UM/SJ  
Sample : H4460-15  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BD2T7

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG081816.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 |
| Phenol, 2-methoxy-   | 9.20  | 4.7     | ng/ul | 157864   | 1                     | 8.10  | 669741  | 20.0 |
| Propanoic acid, 2... | 13.35 | 4.1     | ng/ul | 295112   | 3                     | 14.77 | 1427670 | 20.0 |
| 7,9-Di-tert-butyl... | 18.18 | 7.6     | ng/ul | 681937   | 4                     | 17.53 | 1784240 | 20.0 |