

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
 Data File : BG021874.D  
 Acq On : 12 May 2016 18:34  
 Operator : UM/SJ  
 Sample : H2936-12  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9WK1

## 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-BG050916.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         | 3.240       | 64            | 68          | 70           | rBV4     | 2890           | 4230          | 0.20%           | 0.017%        |
| 2         | 3.281       | 72            | 75          | 82           | rVB2     | 8401           | 11613         | 0.55%           | 0.048%        |
| 3         | 3.552       | 117           | 121         | 128          | rVB2     | 7284           | 11459         | 0.54%           | 0.047%        |
| 4         | 4.092       | 208           | 213         | 218          | rVB4     | 4182           | 7581          | 0.36%           | 0.031%        |
| 5         | 7.318       | 755           | 762         | 777          | rVV      | 156704         | 317687        | 15.02%          | 1.308%        |
| 6         | 7.488       | 784           | 791         | 802          | rBV      | 132579         | 249005        | 11.77%          | 1.025%        |
| 7         | 7.700       | 820           | 827         | 837          | rBV      | 184938         | 362333        | 17.13%          | 1.492%        |
| 8         | 8.176       | 897           | 908         | 917          | rBV      | 170496         | 340815        | 16.11%          | 1.403%        |
| 9         | 8.869       | 1019          | 1026        | 1042         | rBV      | 236222         | 486796        | 23.01%          | 2.004%        |
| 10        | 9.339       | 1099          | 1106        | 1121         | rBV      | 145385         | 317299        | 15.00%          | 1.306%        |
| 11        | 10.067      | 1221          | 1230        | 1242         | rBV      | 126409         | 281485        | 13.30%          | 1.159%        |
| 12        | 10.608      | 1313          | 1322        | 1333         | rBV      | 260812         | 534010        | 25.24%          | 2.198%        |
| 13        | 10.990      | 1372          | 1387        | 1403         | rBV      | 340479         | 724222        | 34.23%          | 2.982%        |
| 14        | 11.125      | 1403          | 1410        | 1425         | rBV      | 124926         | 286572        | 13.54%          | 1.180%        |
| 15        | 11.983      | 1552          | 1556        | 1562         | rVB4     | 5146           | 8828          | 0.42%           | 0.036%        |
| 16        | 12.376      | 1620          | 1623        | 1631         | rVB4     | 5098           | 8324          | 0.39%           | 0.034%        |
| 17        | 12.564      | 1650          | 1655        | 1660         | rBV3     | 4705           | 8633          | 0.41%           | 0.036%        |
| 18        | 12.641      | 1662          | 1668        | 1675         | rVV3     | 11034          | 21130         | 1.00%           | 0.087%        |
| 19        | 12.852      | 1698          | 1704        | 1710         | rBV3     | 9718           | 18516         | 0.88%           | 0.076%        |
| 20        | 13.146      | 1750          | 1754        | 1759         | rBV5     | 2634           | 5265          | 0.25%           | 0.022%        |
| 21        | 13.317      | 1779          | 1783        | 1788         | rVV2     | 4505           | 6286          | 0.30%           | 0.026%        |
| 22        | 13.393      | 1792          | 1796        | 1803         | rVB3     | 2387           | 5108          | 0.24%           | 0.021%        |
| 23        | 13.604      | 1826          | 1832        | 1839         | rBV4     | 9343           | 18937         | 0.90%           | 0.078%        |
| 24        | 13.681      | 1839          | 1845        | 1850         | rVB4     | 12272          | 21732         | 1.03%           | 0.089%        |
| 25        | 13.969      | 1887          | 1894        | 1901         | rVB6     | 4790           | 13192         | 0.62%           | 0.054%        |
| 26        | 14.116      | 1912          | 1919        | 1925         | rBV4     | 11281          | 24000         | 1.13%           | 0.099%        |
| 27        | 14.192      | 1925          | 1932        | 1937         | rVV      | 496220         | 821729        | 38.84%          | 3.383%        |
| 28        | 14.239      | 1937          | 1940        | 1947         | rVV      | 94724          | 151563        | 7.16%           | 0.624%        |
| 29        | 14.315      | 1947          | 1953        | 1956         | rVV6     | 10575          | 21593         | 1.02%           | 0.089%        |
| 30        | 14.357      | 1956          | 1960        | 1969         | rVB5     | 5465           | 12477         | 0.59%           | 0.051%        |
| 31        | 14.492      | 1976          | 1983        | 1993         | rBV      | 662766         | 1158608       | 54.76%          | 4.770%        |
| 32        | 14.668      | 2009          | 2013        | 2018         | rVB      | 27554          | 39199         | 1.85%           | 0.161%        |
| 33        | 14.797      | 2022          | 2035        | 2042         | rBV2     | 614124         | 1102572       | 52.11%          | 4.539%        |
| 34        | 14.856      | 2042          | 2045        | 2053         | rVB2     | 22341          | 41455         | 1.96%           | 0.171%        |

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 Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 14.985 | 2060 | 2067 | 2083 | rBV  | 95164  | 247467  | 11.70% | 1.019% |
| 36 | 15.191 | 2096 | 2102 | 2111 | rVB4 | 13122  | 32097   | 1.52%  | 0.132% |
| 37 | 15.355 | 2127 | 2130 | 2135 | rVB6 | 4983   | 6595    | 0.31%  | 0.027% |
| 38 | 15.408 | 2135 | 2139 | 2141 | rBV3 | 5147   | 7604    | 0.36%  | 0.031% |
| 39 | 15.455 | 2143 | 2147 | 2152 | rVB8 | 4428   | 6956    | 0.33%  | 0.029% |
| 40 | 15.579 | 2162 | 2168 | 2169 | rBV5 | 8496   | 13044   | 0.62%  | 0.054% |
| 41 | 15.620 | 2170 | 2175 | 2180 | rVB  | 40530  | 62837   | 2.97%  | 0.259% |
| 42 | 15.784 | 2194 | 2203 | 2210 | rVV  | 861355 | 1429316 | 67.55% | 5.884% |
| 43 | 15.837 | 2210 | 2212 | 2217 | rVV3 | 25621  | 33340   | 1.58%  | 0.137% |
| 44 | 15.902 | 2217 | 2223 | 2232 | rVV2 | 57258  | 124408  | 5.88%  | 0.512% |
| 45 | 16.019 | 2236 | 2243 | 2249 | rVV3 | 23285  | 53820   | 2.54%  | 0.222% |
| 46 | 16.131 | 2256 | 2262 | 2266 | rVB4 | 9792   | 18905   | 0.89%  | 0.078% |
| 47 | 16.172 | 2266 | 2269 | 2273 | rVB4 | 4287   | 5735    | 0.27%  | 0.024% |
| 48 | 16.237 | 2276 | 2280 | 2282 | rBV4 | 4509   | 6101    | 0.29%  | 0.025% |
| 49 | 16.284 | 2284 | 2288 | 2298 | rVB3 | 7868   | 18526   | 0.88%  | 0.076% |
| 50 | 16.372 | 2298 | 2303 | 2307 | rVB5 | 6503   | 12733   | 0.60%  | 0.052% |
| 51 | 16.419 | 2307 | 2311 | 2316 | rBV7 | 3196   | 6456    | 0.31%  | 0.027% |
| 52 | 16.478 | 2316 | 2321 | 2323 | rBV2 | 46873  | 65801   | 3.11%  | 0.271% |
| 53 | 16.818 | 2372 | 2379 | 2381 | rBV7 | 10399  | 20485   | 0.97%  | 0.084% |
| 54 | 16.883 | 2388 | 2390 | 2394 | rVB5 | 5490   | 6112    | 0.29%  | 0.025% |
| 55 | 16.989 | 2404 | 2408 | 2412 | rVB5 | 8398   | 12670   | 0.60%  | 0.052% |
| 56 | 17.065 | 2414 | 2421 | 2424 | rBV7 | 10186  | 19973   | 0.94%  | 0.082% |
| 57 | 17.188 | 2436 | 2442 | 2449 | rBV2 | 16886  | 30255   | 1.43%  | 0.125% |
| 58 | 17.271 | 2449 | 2456 | 2461 | rBV4 | 31995  | 56377   | 2.66%  | 0.232% |
| 59 | 17.359 | 2468 | 2471 | 2477 | rVB2 | 13239  | 19474   | 0.92%  | 0.080% |
| 60 | 17.541 | 2494 | 2502 | 2506 | rBV  | 684464 | 1236342 | 58.43% | 5.090% |
| 61 | 17.582 | 2506 | 2509 | 2513 | rVV  | 318261 | 476445  | 22.52% | 1.962% |
| 62 | 17.635 | 2513 | 2518 | 2530 | rVB2 | 765524 | 1429542 | 67.57% | 5.885% |
| 63 | 17.805 | 2544 | 2547 | 2548 | rBV3 | 3834   | 4192    | 0.20%  | 0.017% |
| 64 | 17.894 | 2557 | 2562 | 2566 | rBV3 | 28659  | 51726   | 2.44%  | 0.213% |
| 65 | 17.941 | 2566 | 2570 | 2577 | rVV  | 32252  | 64446   | 3.05%  | 0.265% |
| 66 | 18.011 | 2577 | 2582 | 2586 | rVB4 | 16834  | 26545   | 1.25%  | 0.109% |
| 67 | 18.058 | 2586 | 2590 | 2595 | rVB8 | 8994   | 14378   | 0.68%  | 0.059% |
| 68 | 18.117 | 2598 | 2600 | 2602 | rBV3 | 4698   | 5067    | 0.24%  | 0.021% |
| 69 | 18.328 | 2634 | 2636 | 2637 | rBV2 | 5074   | 4000    | 0.19%  | 0.016% |
| 70 | 18.411 | 2645 | 2650 | 2654 | rBV2 | 58337  | 99958   | 4.72%  | 0.412% |
| 71 | 18.458 | 2654 | 2658 | 2665 | rVB2 | 61300  | 108192  | 5.11%  | 0.445% |

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Peak Location: TOP

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Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 18.540 | 2668 | 2672 | 2676 | rVB2 | 19802   | 26814   | 1.27%   | 0.110% |
| 73  | 18.604 | 2676 | 2683 | 2687 | rBV2 | 57905   | 122779  | 5.80%   | 0.505% |
| 74  | 18.698 | 2695 | 2699 | 2705 | rBV5 | 17002   | 36665   | 1.73%   | 0.151% |
| 75  | 18.751 | 2705 | 2708 | 2712 | rVV6 | 7430    | 11919   | 0.56%   | 0.049% |
| 76  | 18.904 | 2729 | 2734 | 2738 | rBV  | 32777   | 52471   | 2.48%   | 0.216% |
| 77  | 18.945 | 2738 | 2741 | 2746 | rVB2 | 22641   | 34503   | 1.63%   | 0.142% |
| 78  | 19.151 | 2772 | 2776 | 2779 | rVB6 | 14046   | 17217   | 0.81%   | 0.071% |
| 79  | 19.192 | 2779 | 2783 | 2788 | rBV6 | 16153   | 23751   | 1.12%   | 0.098% |
| 80  | 19.315 | 2799 | 2804 | 2809 | rBV2 | 50150   | 86780   | 4.10%   | 0.357% |
| 81  | 19.462 | 2824 | 2829 | 2835 | rVB3 | 28736   | 52730   | 2.49%   | 0.217% |
| 82  | 19.580 | 2843 | 2849 | 2856 | rBV  | 678533  | 1017511 | 48.09%  | 4.189% |
| 83  | 19.674 | 2861 | 2865 | 2870 | rVV3 | 31203   | 51818   | 2.45%   | 0.213% |
| 84  | 19.915 | 2899 | 2906 | 2909 | rBV  | 1045954 | 1833120 | 86.64%  | 7.547% |
| 85  | 20.009 | 2919 | 2922 | 2928 | rVB  | 33856   | 53601   | 2.53%   | 0.221% |
| 86  | 20.114 | 2937 | 2940 | 2946 | rVB2 | 24987   | 37869   | 1.79%   | 0.156% |
| 87  | 20.179 | 2947 | 2951 | 2957 | rVB2 | 28594   | 48106   | 2.27%   | 0.198% |
| 88  | 20.267 | 2961 | 2966 | 2971 | rVB2 | 38229   | 85511   | 4.04%   | 0.352% |
| 89  | 20.426 | 2983 | 2993 | 2999 | rBV2 | 96728   | 239275  | 11.31%  | 0.985% |
| 90  | 20.526 | 3007 | 3010 | 3013 | rBV  | 32295   | 47535   | 2.25%   | 0.196% |
| 91  | 20.726 | 3041 | 3044 | 3048 | rBV  | 38732   | 54620   | 2.58%   | 0.225% |
| 92  | 21.201 | 3121 | 3125 | 3132 | rVB  | 66240   | 118320  | 5.59%   | 0.487% |
| 93  | 21.436 | 3161 | 3165 | 3169 | rVB  | 112255  | 158531  | 7.49%   | 0.653% |
| 94  | 21.689 | 3204 | 3208 | 3215 | rVB2 | 113495  | 187809  | 8.88%   | 0.773% |
| 95  | 21.824 | 3222 | 3231 | 3236 | rBV2 | 839854  | 2115783 | 100.00% | 8.711% |
| 96  | 21.871 | 3236 | 3239 | 3252 | rVB  | 335103  | 602019  | 28.45%  | 2.478% |
| 97  | 24.098 | 3610 | 3618 | 3626 | rBV3 | 318300  | 1104481 | 52.20%  | 4.547% |
| 98  | 24.856 | 3740 | 3747 | 3753 | rBV2 | 150883  | 441046  | 20.85%  | 1.816% |
| 99  | 24.938 | 3754 | 3761 | 3768 | rVV2 | 349712  | 924959  | 43.72%  | 3.808% |
| 100 | 25.167 | 3790 | 3800 | 3809 | rBV2 | 441545  | 1420090 | 67.12%  | 5.846% |

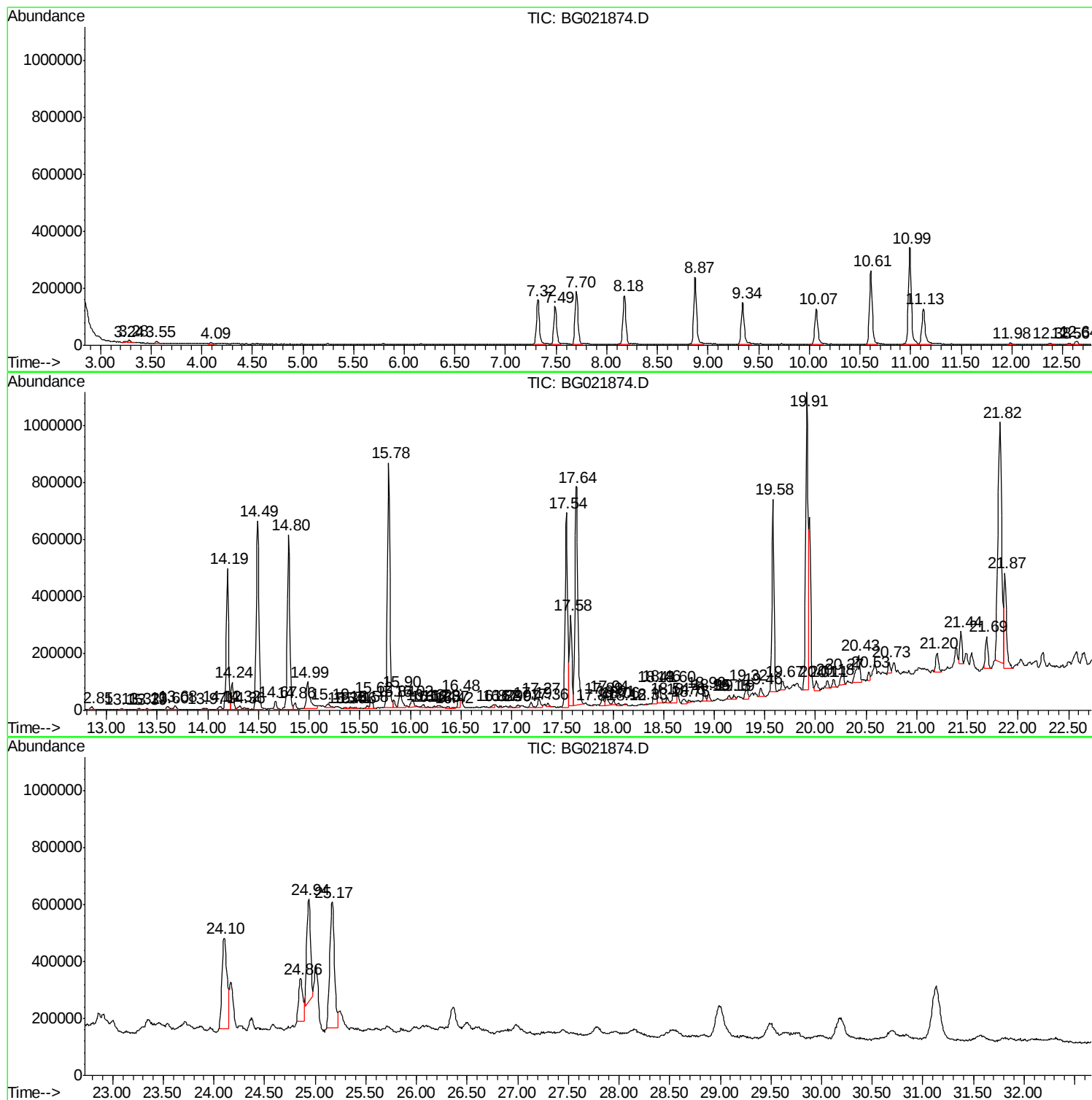
Sum of corrected areas: 24289807

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Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
Quant Title : SVOA CALIBRATION

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



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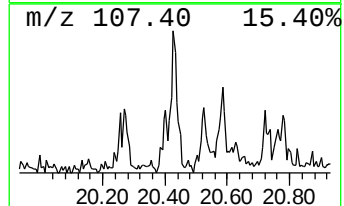
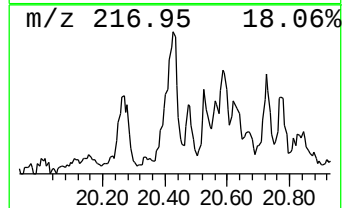
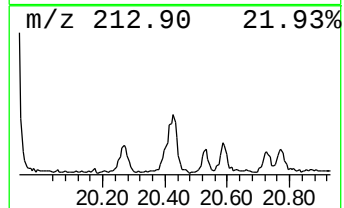
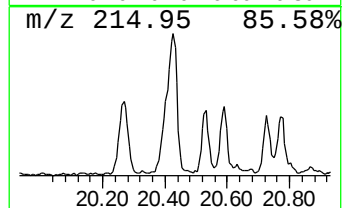
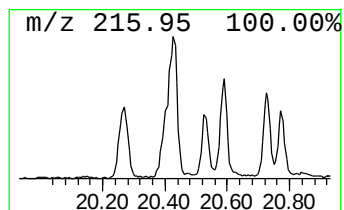
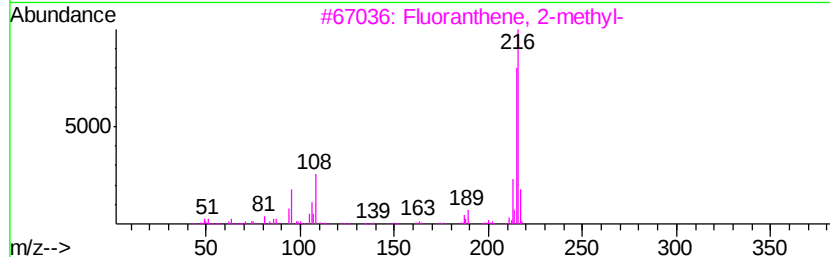
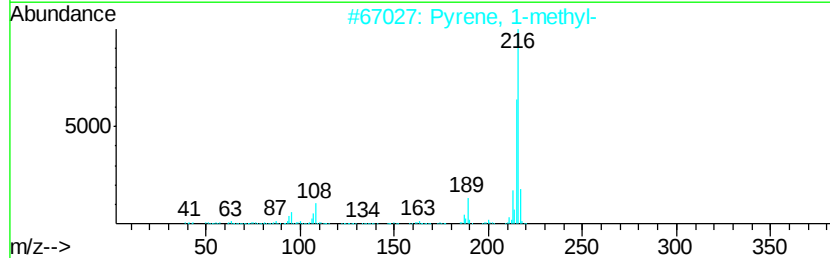
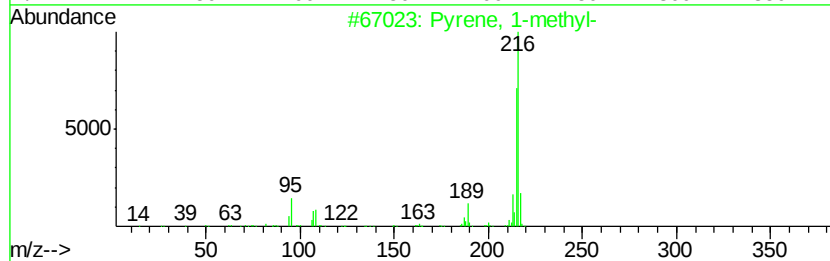
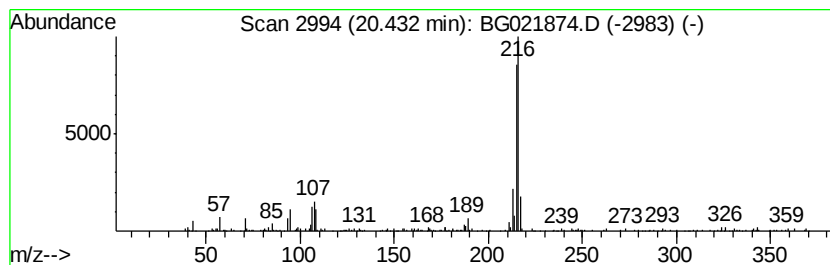
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Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 Pyrene, 1-methyl- Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD        |     | R.T.    |             |      |
|-------|------------|--------|-------------------------|-----|---------|-------------|------|
| 20.43 | 2.26 ng/ul | 239275 | Chrysene-d12            |     | 21.82   |             |      |
| Hit#  | of         | 5      | Tentative ID            | MW  | MolForm | CAS#        | Qual |
| 1     |            |        | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 93   |
| 2     |            |        | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 90   |
| 3     |            |        | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 90   |
| 4     |            |        | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 90   |
| 5     |            |        | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 87   |



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| TIC Top Hit name  | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|-------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                   |       |         |       |          | #                     | RT    | Resp    | Conc |
| Pyrene, 1-methyl- | 20.43 | 2.3     | ng/ul | 239275   | 5                     | 21.82 | 2115780 | 20.0 |