

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101716\  
 Data File : BG024379.D  
 Acq On : 17 Oct 2016 12:35  
 Operator : UM/SJ  
 Sample : H5240-10  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BDPG8

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.1  
 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: 1

Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG0100716.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         | 4.019       | 199           | 201         | 205          | rVB3     | 11788          | 14751         | 0.31%           | 0.029%        |
| 2         | 4.171       | 224           | 227         | 230          | rBV4     | 11436          | 16167         | 0.34%           | 0.032%        |
| 3         | 4.412       | 266           | 268         | 272          | rVB5     | 13598          | 18187         | 0.38%           | 0.036%        |
| 4         | 4.606       | 297           | 301         | 305          | rBV6     | 9676           | 16372         | 0.35%           | 0.032%        |
| 5         | 5.476       | 446           | 449         | 453          | rVB6     | 16458          | 13813         | 0.29%           | 0.027%        |
| 6         | 5.723       | 484           | 491         | 493          | rBV6     | 7769           | 16204         | 0.34%           | 0.032%        |
| 7         | 5.781       | 499           | 501         | 506          | rVV5     | 9828           | 13787         | 0.29%           | 0.027%        |
| 8         | 5.928       | 521           | 526         | 527          | rBV5     | 10363          | 12436         | 0.26%           | 0.025%        |
| 9         | 6.269       | 580           | 584         | 587          | rBV4     | 11470          | 12042         | 0.25%           | 0.024%        |
| 10        | 6.498       | 616           | 623         | 626          | rVB8     | 9225           | 15271         | 0.32%           | 0.030%        |
| 11        | 6.868       | 684           | 686         | 691          | rVV4     | 9816           | 12115         | 0.26%           | 0.024%        |
| 12        | 7.415       | 771           | 779         | 787          | rVB      | 149470         | 278734        | 5.89%           | 0.553%        |
| 13        | 7.597       | 800           | 810         | 822          | rBV      | 411646         | 723287        | 15.28%          | 1.435%        |
| 14        | 7.697       | 825           | 827         | 835          | rVB7     | 7699           | 12855         | 0.27%           | 0.026%        |
| 15        | 7.808       | 838           | 846         | 856          | rVB      | 448537         | 820676        | 17.33%          | 1.628%        |
| 16        | 7.944       | 864           | 869         | 874          | rBV8     | 7817           | 20616         | 0.44%           | 0.041%        |
| 17        | 8.155       | 900           | 905         | 908          | rBV5     | 9440           | 14327         | 0.30%           | 0.028%        |
| 18        | 8.237       | 913           | 919         | 921          | rVV5     | 12004          | 25528         | 0.54%           | 0.051%        |
| 19        | 8.284       | 921           | 927         | 941          | rVV      | 564300         | 1042138       | 22.01%          | 2.067%        |
| 20        | 8.390       | 941           | 945         | 948          | rVB6     | 12890          | 20157         | 0.43%           | 0.040%        |
| 21        | 8.496       | 952           | 963         | 968          | rBV6     | 23200          | 41427         | 0.88%           | 0.082%        |
| 22        | 8.737       | 999           | 1004        | 1006         | rBV4     | 13211          | 14707         | 0.31%           | 0.029%        |
| 23        | 8.795       | 1012          | 1014        | 1020         | rVV6     | 11800          | 19290         | 0.41%           | 0.038%        |
| 24        | 8.972       | 1034          | 1044        | 1053         | rBV      | 413814         | 754482        | 15.94%          | 1.497%        |
| 25        | 9.177       | 1077          | 1079        | 1084         | rVB4     | 11000          | 16341         | 0.35%           | 0.032%        |
| 26        | 9.230       | 1084          | 1088        | 1090         | rBV5     | 10613          | 13127         | 0.28%           | 0.026%        |
| 27        | 9.389       | 1110          | 1115        | 1118         | rBV4     | 13944          | 25870         | 0.55%           | 0.051%        |
| 28        | 9.459       | 1118          | 1127        | 1136         | rVV      | 599485         | 1092207       | 23.07%          | 2.167%        |
| 29        | 9.595       | 1143          | 1150        | 1157         | rVB10    | 11443          | 29248         | 0.62%           | 0.058%        |
| 30        | 9.818       | 1186          | 1188        | 1196         | rVB6     | 7602           | 16726         | 0.35%           | 0.033%        |
| 31        | 10.182      | 1243          | 1250        | 1260         | rVB2     | 532925         | 979659        | 20.69%          | 1.943%        |
| 32        | 10.358      | 1276          | 1280        | 1286         | rBV9     | 9118           | 16786         | 0.35%           | 0.033%        |
| 33        | 10.717      | 1332          | 1341        | 1354         | rBV      | 719485         | 1340822       | 28.32%          | 2.660%        |
| 34        | 10.963      | 1376          | 1383        | 1384         | rVB5     | 9000           | 15350         | 0.32%           | 0.030%        |

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 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: 1

Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG0100716.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.005 | 1384 | 1390 | 1396 | rBV5 | 17209   | 37424   | 0.79%  | 0.074% |
| 36 | 11.116 | 1400 | 1409 | 1421 | rVB  | 821642  | 1585530 | 33.49% | 3.145% |
| 37 | 11.246 | 1424 | 1431 | 1436 | rBV8 | 17665   | 33541   | 0.71%  | 0.067% |
| 38 | 11.780 | 1517 | 1522 | 1525 | rVB5 | 9158    | 19209   | 0.41%  | 0.038% |
| 39 | 11.839 | 1525 | 1532 | 1538 | rBV9 | 14194   | 40019   | 0.85%  | 0.079% |
| 40 | 12.297 | 1607 | 1610 | 1614 | rVB5 | 7694    | 13068   | 0.28%  | 0.026% |
| 41 | 12.350 | 1614 | 1619 | 1625 | rBV4 | 54604   | 100227  | 2.12%  | 0.199% |
| 42 | 12.673 | 1663 | 1674 | 1679 | rBV7 | 22479   | 46252   | 0.98%  | 0.092% |
| 43 | 13.143 | 1749 | 1754 | 1756 | rBV6 | 10757   | 17802   | 0.38%  | 0.035% |
| 44 | 13.255 | 1768 | 1773 | 1783 | rBV8 | 11411   | 25620   | 0.54%  | 0.051% |
| 45 | 13.496 | 1805 | 1814 | 1821 | rBV8 | 21343   | 44003   | 0.93%  | 0.087% |
| 46 | 13.766 | 1853 | 1860 | 1865 | rBV4 | 33459   | 57199   | 1.21%  | 0.113% |
| 47 | 13.813 | 1865 | 1868 | 1882 | rVB6 | 35418   | 66130   | 1.40%  | 0.131% |
| 48 | 13.925 | 1882 | 1887 | 1892 | rBV4 | 7999    | 13368   | 0.28%  | 0.027% |
| 49 | 14.089 | 1912 | 1915 | 1920 | rBV7 | 10545   | 18969   | 0.40%  | 0.038% |
| 50 | 14.295 | 1940 | 1950 | 1956 | rBV  | 1603442 | 2488002 | 52.55% | 4.936% |
| 51 | 14.530 | 1985 | 1990 | 1993 | rVV5 | 14860   | 26777   | 0.57%  | 0.053% |
| 52 | 14.600 | 1993 | 2002 | 2014 | rVV  | 1551023 | 2658446 | 56.15% | 5.274% |
| 53 | 14.765 | 2026 | 2030 | 2035 | rVB6 | 10402   | 16339   | 0.35%  | 0.032% |
| 54 | 14.900 | 2035 | 2053 | 2060 | rBV  | 1539233 | 2555464 | 53.98% | 5.069% |
| 55 | 14.959 | 2060 | 2063 | 2067 | rVB5 | 18186   | 21992   | 0.46%  | 0.044% |
| 56 | 15.059 | 2072 | 2080 | 2089 | rBV2 | 194770  | 351232  | 7.42%  | 0.697% |
| 57 | 15.211 | 2103 | 2106 | 2109 | rBV5 | 9782    | 12828   | 0.27%  | 0.025% |
| 58 | 15.264 | 2110 | 2115 | 2122 | rVB7 | 19452   | 34555   | 0.73%  | 0.069% |
| 59 | 15.552 | 2160 | 2164 | 2169 | rBV3 | 34598   | 54946   | 1.16%  | 0.109% |
| 60 | 15.687 | 2184 | 2187 | 2192 | rVB5 | 9899    | 15042   | 0.32%  | 0.030% |
| 61 | 15.805 | 2202 | 2207 | 2211 | rBV3 | 38617   | 48957   | 1.03%  | 0.097% |
| 62 | 15.887 | 2211 | 2221 | 2230 | rVB  | 2299302 | 3635583 | 76.79% | 7.212% |
| 63 | 15.987 | 2230 | 2238 | 2251 | rBV2 | 868606  | 1332676 | 28.15% | 2.644% |
| 64 | 16.122 | 2257 | 2261 | 2266 | rVV6 | 35098   | 52911   | 1.12%  | 0.105% |
| 65 | 16.234 | 2271 | 2280 | 2287 | rBV8 | 15200   | 46160   | 0.97%  | 0.092% |
| 66 | 16.387 | 2304 | 2306 | 2313 | rVB6 | 7580    | 12773   | 0.27%  | 0.025% |
| 67 | 16.827 | 2375 | 2381 | 2393 | rBV5 | 19406   | 53772   | 1.14%  | 0.107% |
| 68 | 16.992 | 2406 | 2409 | 2415 | rBV8 | 16304   | 27241   | 0.58%  | 0.054% |
| 69 | 17.050 | 2415 | 2419 | 2424 | rBV3 | 33603   | 51106   | 1.08%  | 0.101% |
| 70 | 17.209 | 2441 | 2446 | 2452 | rVB3 | 31487   | 51426   | 1.09%  | 0.102% |
| 71 | 17.250 | 2452 | 2453 | 2460 | rBV7 | 9145    | 17717   | 0.37%  | 0.035% |

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Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG0100716.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |       |         |         |         |        |
|-----|--------|------|------|------|-------|---------|---------|---------|--------|
| 72  | 17.309 | 2460 | 2463 | 2465 | rBV4  | 10638   | 14294   | 0.30%   | 0.028% |
| 73  | 17.432 | 2477 | 2484 | 2486 | rBV5  | 17484   | 29442   | 0.62%   | 0.058% |
| 74  | 17.562 | 2503 | 2506 | 2512 | rBV7  | 11219   | 14600   | 0.31%   | 0.029% |
| 75  | 17.638 | 2512 | 2519 | 2528 | rBV   | 2006646 | 3185146 | 67.28%  | 6.319% |
| 76  | 17.738 | 2528 | 2536 | 2549 | rVB2  | 2623937 | 4073094 | 86.03%  | 8.080% |
| 77  | 18.020 | 2579 | 2584 | 2587 | rVB7  | 11467   | 23628   | 0.50%   | 0.047% |
| 78  | 18.114 | 2597 | 2600 | 2609 | rVB6  | 27381   | 53456   | 1.13%   | 0.106% |
| 79  | 18.190 | 2609 | 2613 | 2616 | rBV6  | 10010   | 18340   | 0.39%   | 0.036% |
| 80  | 18.278 | 2620 | 2628 | 2637 | rBV2  | 541940  | 756943  | 15.99%  | 1.502% |
| 81  | 18.349 | 2637 | 2640 | 2644 | rBV5  | 9562    | 17431   | 0.37%   | 0.035% |
| 82  | 18.484 | 2657 | 2663 | 2673 | rBV3  | 247689  | 368815  | 7.79%   | 0.732% |
| 83  | 18.566 | 2675 | 2677 | 2681 | rVB4  | 16592   | 17570   | 0.37%   | 0.035% |
| 84  | 18.607 | 2681 | 2684 | 2685 | rBV3  | 12153   | 12357   | 0.26%   | 0.025% |
| 85  | 18.754 | 2706 | 2709 | 2712 | rVB5  | 20813   | 18567   | 0.39%   | 0.037% |
| 86  | 19.001 | 2744 | 2751 | 2755 | rBV8  | 16572   | 40350   | 0.85%   | 0.080% |
| 87  | 19.054 | 2755 | 2760 | 2768 | rVV5  | 35248   | 64027   | 1.35%   | 0.127% |
| 88  | 19.642 | 2855 | 2860 | 2866 | rVB2  | 42032   | 68180   | 1.44%   | 0.135% |
| 89  | 19.741 | 2871 | 2877 | 2883 | rBV4  | 253230  | 362169  | 7.65%   | 0.718% |
| 90  | 19.835 | 2889 | 2893 | 2898 | rBV6  | 40828   | 48394   | 1.02%   | 0.096% |
| 91  | 19.894 | 2899 | 2903 | 2909 | rVB4  | 40666   | 67198   | 1.42%   | 0.133% |
| 92  | 20.012 | 2915 | 2923 | 2934 | rVB   | 3035363 | 4734466 | 100.00% | 9.392% |
| 93  | 20.523 | 3008 | 3010 | 3015 | rVB6  | 30077   | 38100   | 0.80%   | 0.076% |
| 94  | 21.939 | 3243 | 3251 | 3259 | rBV   | 2085051 | 3700831 | 78.17%  | 7.342% |
| 95  | 22.027 | 3264 | 3266 | 3274 | rVB8  | 40493   | 71271   | 1.51%   | 0.141% |
| 96  | 23.472 | 3505 | 3512 | 3522 | rBV2  | 493409  | 1040917 | 21.99%  | 2.065% |
| 97  | 24.342 | 3654 | 3660 | 3667 | rBV10 | 48319   | 119576  | 2.53%   | 0.237% |
| 98  | 25.141 | 3785 | 3796 | 3810 | rVB2  | 1488766 | 4439725 | 93.77%  | 8.807% |
| 99  | 25.382 | 3826 | 3837 | 3850 | rVB2  | 1175445 | 3672860 | 77.58%  | 7.286% |
| 100 | 26.563 | 4036 | 4038 | 4047 | rVB8  | 72624   | 157131  | 3.32%   | 0.312% |

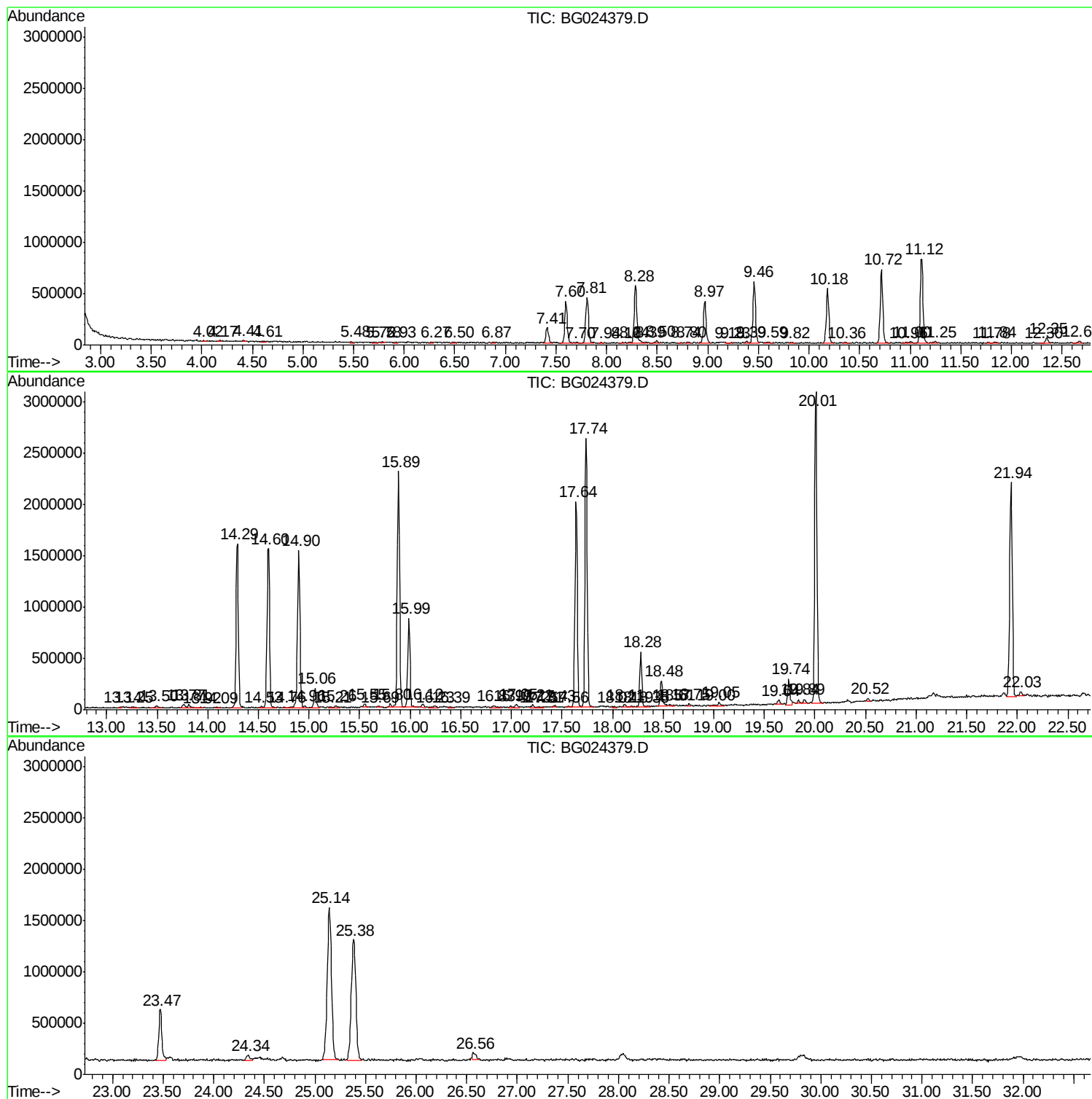
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG0100716.M  
Quant Title : SVOA CALIBRATION

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-BG0100716.M  
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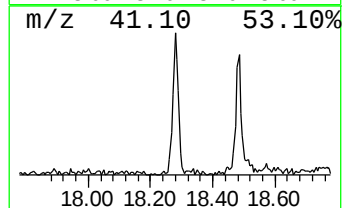
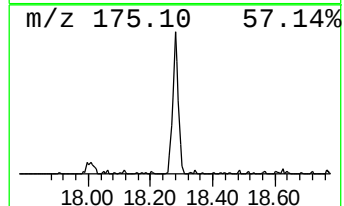
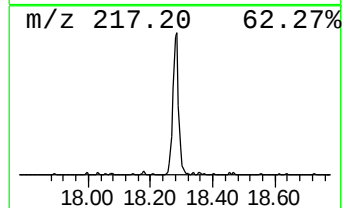
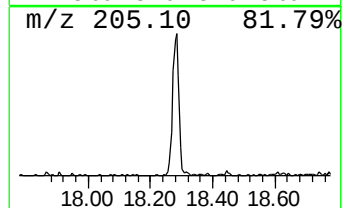
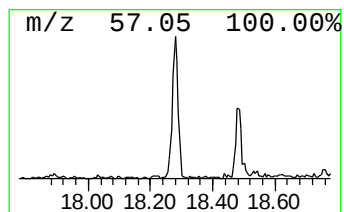
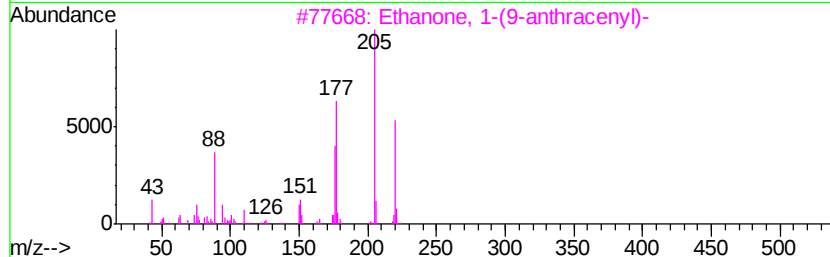
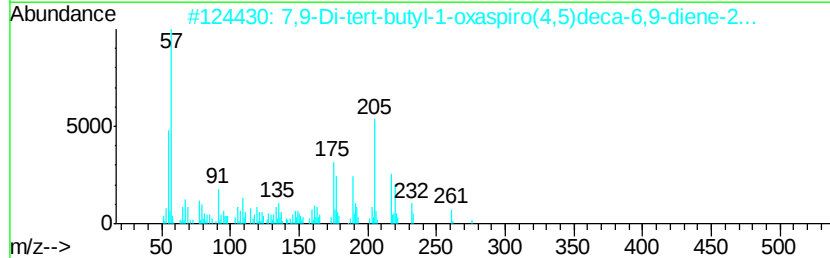
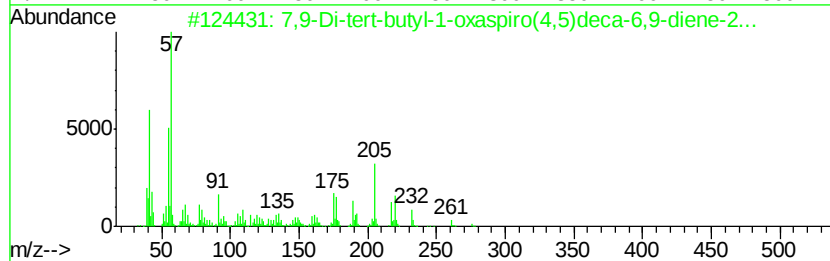
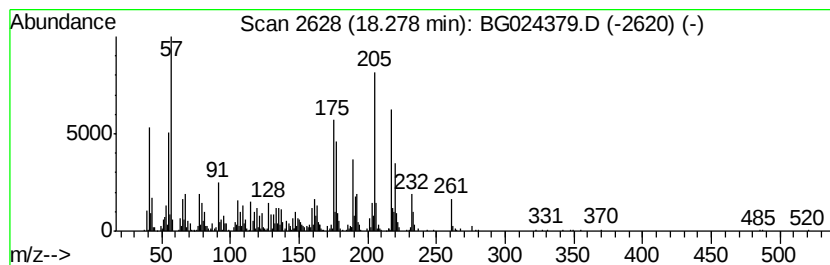
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 7,9-Di-tert-butyl-1-oxaspiro... Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.28 | 4.75 ng/ul | 756943 | Phenanthrene-d10 | 17.64 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 7,9-Di-tert-butyl-1-oxaspiro(4,5... | 276 | C17H24O3 | 082304-66-3 | 99   |
| 2    |    |   | 7,9-Di-tert-butyl-1-oxaspiro(4,5... | 276 | C17H24O3 | 082304-66-3 | 98   |
| 3    |    |   | Ethanone, 1-(9-anthracenyl)-        | 220 | C16H12O  | 000784-04-3 | 46   |
| 4    |    |   | 3-Acetylphenanthrene                | 220 | C16H12O  | 002039-76-1 | 46   |
| 5    |    |   | 9-Acetylphenanthrene                | 220 | C16H12O  | 002039-77-2 | 46   |



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Quant Title : SVOA CALIBRATION

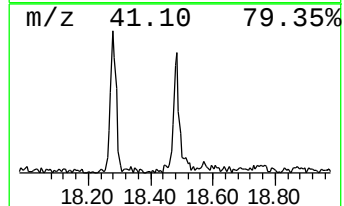
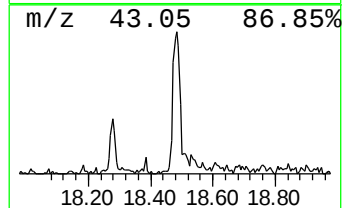
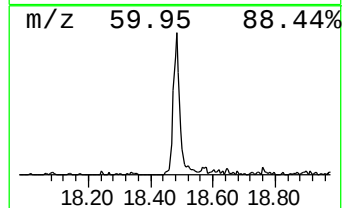
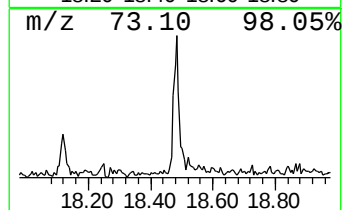
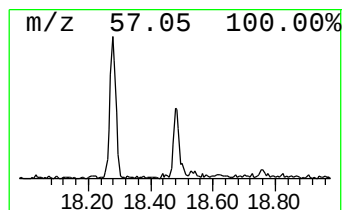
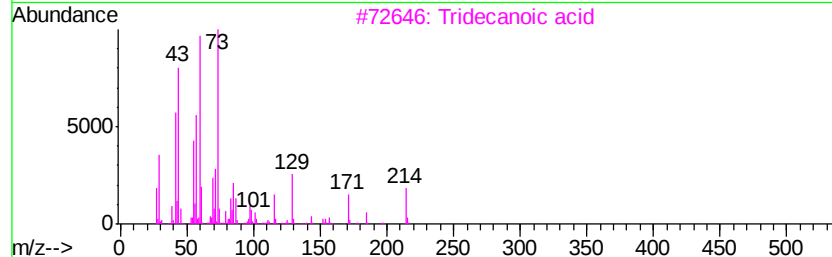
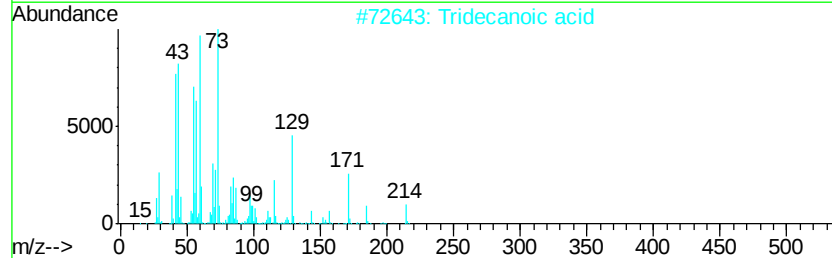
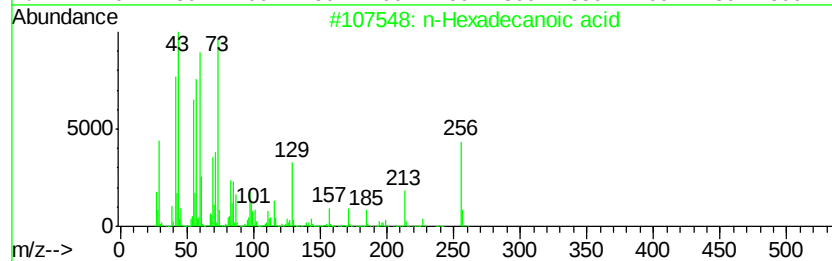
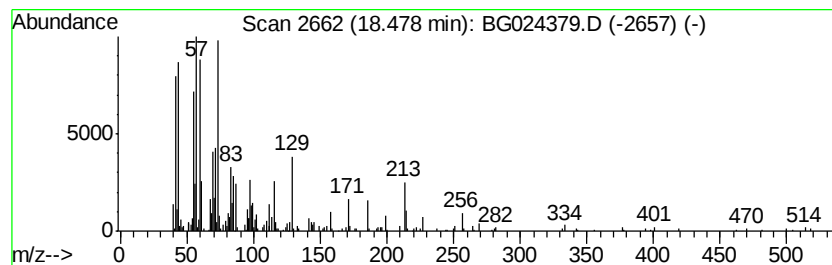
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 n-Hexadecanoic acid Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.48 | 2.32 ng/ul | 368815 | Phenanthrene-d10 | 17.64 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 91   |
| 2    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 76   |
| 3    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 64   |
| 4    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 59   |
| 5    |    | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7 | 59   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG101716\  
Data File : BG024379.D  
Acq On : 17 Oct 2016 12:35  
Operator : UM/SJ  
Sample : H5240-10  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BDPG8

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG0100716.M  
Quant Title : SVOA CALIBRATION

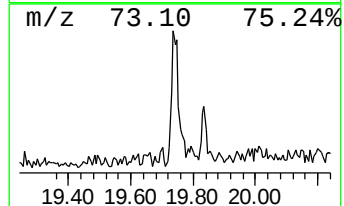
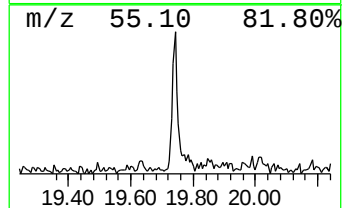
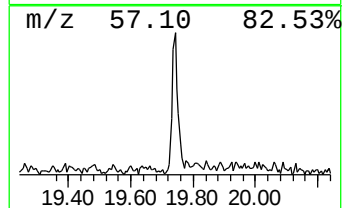
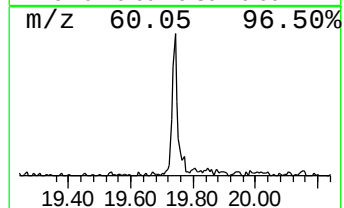
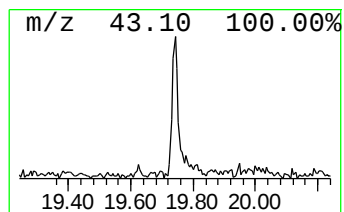
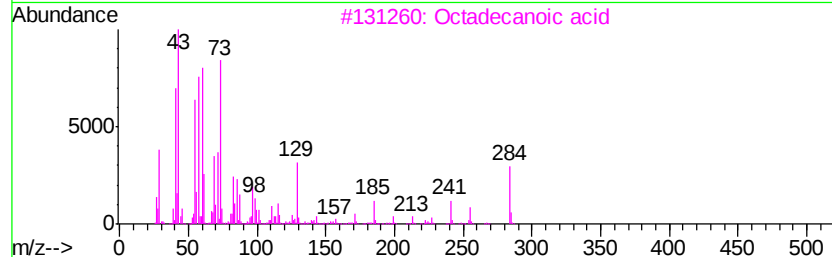
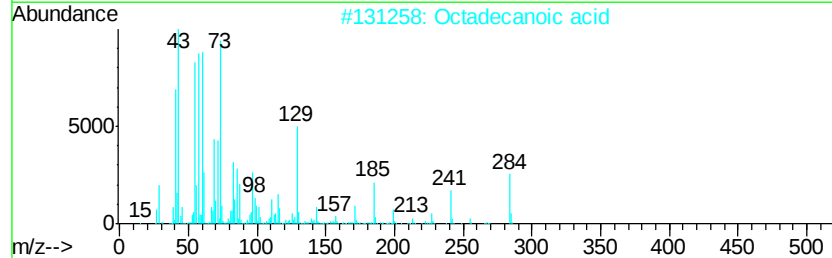
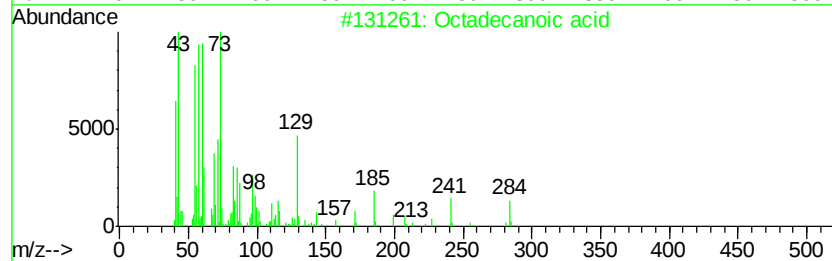
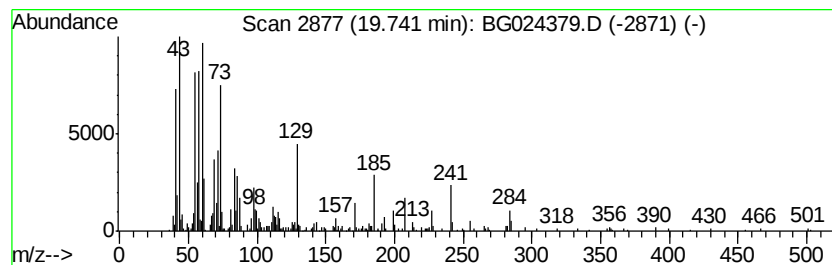
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Octadecanoic acid Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.74 | 2.27 ng/ul | 362169 | Phenanthrene-d10 | 17.64 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------|-----|----------|-------------|------|
| 1    |    |   | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2    |    |   | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 87   |
| 3    |    |   | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 81   |
| 4    |    |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 74   |
| 5    |    |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 59   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG101716\  
Data File : BG024379.D  
Acq On : 17 Oct 2016 12:35  
Operator : UM/SJ  
Sample : H5240-10  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BDPG8

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG0100716.M  
Quant Title : SVOA CALIBRATION

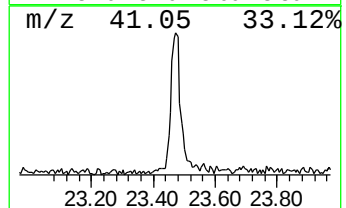
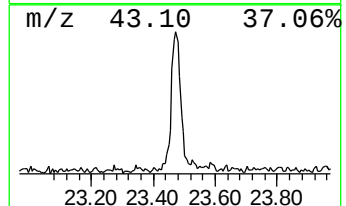
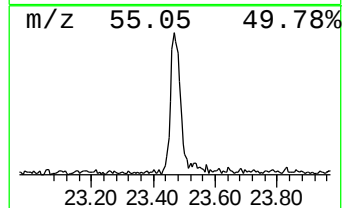
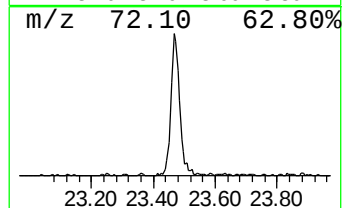
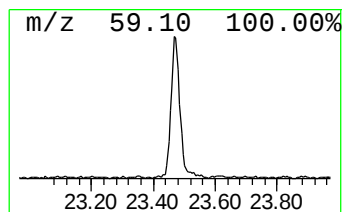
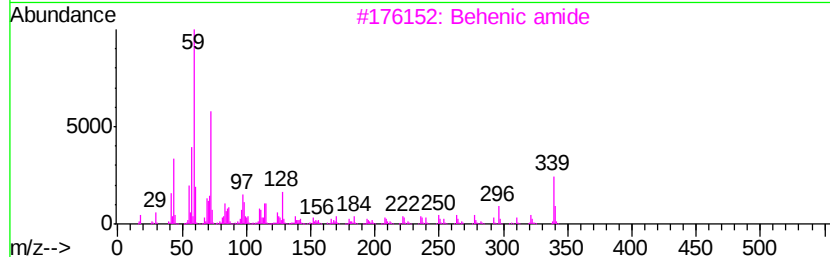
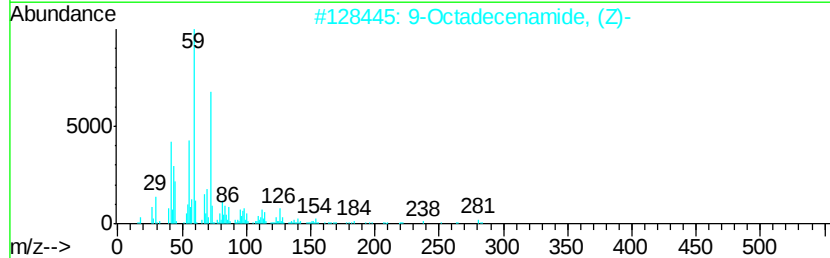
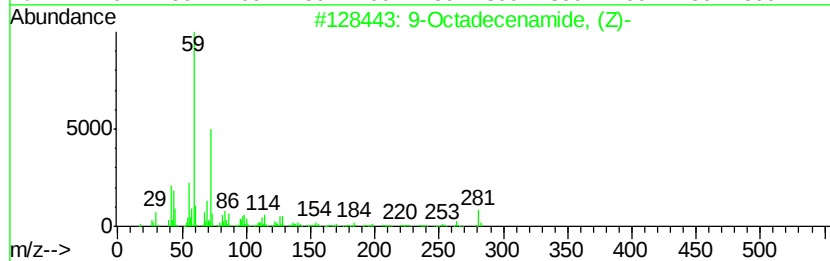
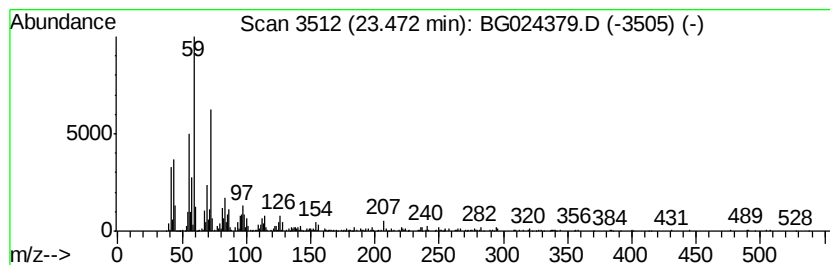
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 9-Octadecenamide, (Z)- Concentration Rank 1

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 23.47 | 5.63 ng/ul | 1040920 | Chrysene-d12     | 21.94 |

| Hit# | of | Tentative ID           | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------------|-----|----------|-------------|------|
| 1    | 5  | 9-Octadecenamide, (Z)- | 281 | C18H35NO | 000301-02-0 | 93   |
| 2    |    | 9-Octadecenamide, (Z)- | 281 | C18H35NO | 000301-02-0 | 91   |
| 3    |    | Behenic amide          | 339 | C22H45NO | 003061-75-4 | 72   |
| 4    |    | Dodecanamide           | 199 | C12H25NO | 001120-16-7 | 59   |
| 5    |    | Octadecanamide         | 283 | C18H37NO | 000124-26-5 | 59   |



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Data File : BG024379.D  
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Operator : UM/SJ  
Sample : H5240-10  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BDPG8

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG0100716.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 |
| 7,9-Di-tert-butyl... | 18.28 | 4.8     | ng/ul | 756943   | 4                     | 17.64 | 3185150 | 20.0 |
| n-Hexadecanoic acid  | 18.48 | 2.3     | ng/ul | 368815   | 4                     | 17.64 | 3185150 | 20.0 |
| Octadecanoic acid    | 19.74 | 2.3     | ng/ul | 362169   | 4                     | 17.64 | 3185150 | 20.0 |
| 9-Octadecenamide,... | 23.47 | 5.6     | ng/ul | 1040920  | 5                     | 21.94 | 3700830 | 20.0 |