

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101016\  
 Data File : BG024239.D  
 Acq On : 10 Oct 2016 14:40  
 Operator : UM/SJ  
 Sample : H5080-11  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BDNA9

## 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         | 4.735       | 319           | 323         | 327          | rBV6     | 14157          | 23567         | 0.49%           | 0.045%        |
| 2         | 4.858       | 341           | 344         | 346          | rBV4     | 9179           | 11219         | 0.23%           | 0.021%        |
| 3         | 4.911       | 351           | 353         | 355          | rBV3     | 9326           | 10275         | 0.21%           | 0.019%        |
| 4         | 5.851       | 511           | 513         | 516          | rBV3     | 8467           | 9997          | 0.21%           | 0.019%        |
| 5         | 6.456       | 612           | 616         | 617          | rBV4     | 7624           | 9753          | 0.20%           | 0.018%        |
| 6         | 6.474       | 617           | 619         | 621          | rVV3     | 12498          | 12213         | 0.25%           | 0.023%        |
| 7         | 6.492       | 621           | 622         | 627          | rVB4     | 11503          | 14861         | 0.31%           | 0.028%        |
| 8         | 6.838       | 678           | 681         | 683          | rBV4     | 9294           | 9827          | 0.20%           | 0.019%        |
| 9         | 7.038       | 714           | 715         | 718          | rBV2     | 11488          | 10963         | 0.23%           | 0.021%        |
| 10        | 7.067       | 718           | 720         | 724          | rVV5     | 12935          | 12720         | 0.26%           | 0.024%        |
| 11        | 7.097       | 724           | 725         | 731          | rVB6     | 9410           | 12326         | 0.25%           | 0.023%        |
| 12        | 7.208       | 742           | 744         | 745          | rBV      | 12676          | 8547          | 0.18%           | 0.016%        |
| 13        | 7.420       | 773           | 780         | 789          | rBV      | 627044         | 1179538       | 24.34%          | 2.237%        |
| 14        | 7.543       | 800           | 801         | 804          | rVB3     | 11465          | 8605          | 0.18%           | 0.016%        |
| 15        | 7.608       | 804           | 812         | 823          | rBV      | 440801         | 789784        | 16.30%          | 1.498%        |
| 16        | 7.819       | 841           | 848         | 856          | rVB      | 599239         | 1046847       | 21.61%          | 1.985%        |
| 17        | 7.872       | 856           | 857         | 859          | rVB2     | 14440          | 9262          | 0.19%           | 0.018%        |
| 18        | 8.025       | 880           | 883         | 887          | rBV3     | 6572           | 11489         | 0.24%           | 0.022%        |
| 19        | 8.101       | 895           | 896         | 902          | rVB6     | 13275          | 14052         | 0.29%           | 0.027%        |
| 20        | 8.295       | 922           | 929         | 941          | rVB2     | 496260         | 901720        | 18.61%          | 1.710%        |
| 21        | 8.495       | 960           | 963         | 967          | rBV5     | 7636           | 9118          | 0.19%           | 0.017%        |
| 22        | 8.572       | 974           | 976         | 979          | rVB4     | 8605           | 10361         | 0.21%           | 0.020%        |
| 23        | 8.630       | 983           | 986         | 987          | rBV3     | 9150           | 10826         | 0.22%           | 0.021%        |
| 24        | 8.983       | 1038          | 1046        | 1054         | rBV      | 791555         | 1450293       | 29.93%          | 2.750%        |
| 25        | 9.177       | 1076          | 1079        | 1081         | rBV3     | 7710           | 9059          | 0.19%           | 0.017%        |
| 26        | 9.470       | 1122          | 1129        | 1135         | rBV      | 631719         | 1125237       | 23.22%          | 2.134%        |
| 27        | 9.529       | 1137          | 1139        | 1142         | rVB4     | 20684          | 19700         | 0.41%           | 0.037%        |
| 28        | 9.964       | 1210          | 1213        | 1215         | rBV4     | 8660           | 10265         | 0.21%           | 0.019%        |
| 29        | 10.193      | 1245          | 1252        | 1263         | rVB      | 529376         | 990482        | 20.44%          | 1.878%        |
| 30        | 10.381      | 1281          | 1284        | 1288         | rVB4     | 8958           | 11929         | 0.25%           | 0.023%        |
| 31        | 10.481      | 1299          | 1301        | 1304         | rVB4     | 13090          | 11139         | 0.23%           | 0.021%        |
| 32        | 10.528      | 1304          | 1309        | 1310         | rBV4     | 9044           | 14515         | 0.30%           | 0.028%        |
| 33        | 10.663      | 1329          | 1332        | 1335         | rBV4     | 6970           | 10988         | 0.23%           | 0.021%        |
| 34        | 10.728      | 1336          | 1343        | 1352         | rVV      | 815621         | 1498894       | 30.94%          | 2.842%        |

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Filtering: 5  
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 Max Peaks: 100  
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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 | 10.828 | 1358 | 1360 | 1362 | rBV3  | 9991    | 10589   | 0.22%  | 0.020% |
| 36 | 10.857 | 1362 | 1365 | 1367 | rVV3  | 6473    | 8470    | 0.17%  | 0.016% |
| 37 | 10.969 | 1381 | 1384 | 1386 | rBV2  | 7949    | 10301   | 0.21%  | 0.020% |
| 38 | 11.022 | 1390 | 1393 | 1394 | rBV3  | 11425   | 9478    | 0.20%  | 0.018% |
| 39 | 11.127 | 1404 | 1411 | 1421 | rVB   | 745257  | 1360894 | 28.09% | 2.580% |
| 40 | 11.251 | 1424 | 1432 | 1440 | rBV   | 782915  | 1505618 | 31.07% | 2.855% |
| 41 | 11.985 | 1554 | 1557 | 1561 | rBV5  | 10795   | 18709   | 0.39%  | 0.035% |
| 42 | 12.032 | 1561 | 1565 | 1566 | rVB3  | 14418   | 12853   | 0.27%  | 0.024% |
| 43 | 12.156 | 1583 | 1586 | 1588 | rVB3  | 14031   | 11003   | 0.23%  | 0.021% |
| 44 | 12.314 | 1611 | 1613 | 1618 | rVB6  | 8645    | 9923    | 0.20%  | 0.019% |
| 45 | 12.684 | 1673 | 1676 | 1679 | rBV5  | 13939   | 17447   | 0.36%  | 0.033% |
| 46 | 13.301 | 1779 | 1781 | 1783 | rVB3  | 9145    | 9256    | 0.19%  | 0.018% |
| 47 | 13.372 | 1790 | 1793 | 1797 | rBV6  | 5472    | 9647    | 0.20%  | 0.018% |
| 48 | 13.713 | 1847 | 1851 | 1853 | rVV3  | 6592    | 8934    | 0.18%  | 0.017% |
| 49 | 13.777 | 1858 | 1862 | 1867 | rVV4  | 42089   | 73845   | 1.52%  | 0.140% |
| 50 | 13.818 | 1867 | 1869 | 1874 | rVB4  | 10051   | 13723   | 0.28%  | 0.026% |
| 51 | 13.877 | 1878 | 1879 | 1883 | rVB4  | 11053   | 12070   | 0.25%  | 0.023% |
| 52 | 14.000 | 1898 | 1900 | 1903 | rVB4  | 9422    | 9107    | 0.19%  | 0.017% |
| 53 | 14.112 | 1916 | 1919 | 1922 | rVB5  | 5958    | 8695    | 0.18%  | 0.016% |
| 54 | 14.306 | 1944 | 1952 | 1956 | rBV   | 1723534 | 2589239 | 53.44% | 4.910% |
| 55 | 14.353 | 1956 | 1960 | 1966 | rVB   | 1351230 | 1936297 | 39.96% | 3.672% |
| 56 | 14.429 | 1972 | 1973 | 1977 | rBV4  | 11545   | 9856    | 0.20%  | 0.019% |
| 57 | 14.606 | 1996 | 2003 | 2011 | rVV   | 1580485 | 2694506 | 55.61% | 5.109% |
| 58 | 14.764 | 2028 | 2030 | 2037 | rVB7  | 22515   | 34146   | 0.70%  | 0.065% |
| 59 | 14.911 | 2045 | 2055 | 2063 | rBV   | 1290456 | 2135268 | 44.07% | 4.049% |
| 60 | 15.070 | 2075 | 2082 | 2091 | rBV2  | 923281  | 1486782 | 30.69% | 2.819% |
| 61 | 15.387 | 2133 | 2136 | 2139 | rVB5  | 14020   | 16571   | 0.34%  | 0.031% |
| 62 | 15.458 | 2146 | 2148 | 2151 | rBV4  | 14092   | 10435   | 0.22%  | 0.020% |
| 63 | 15.569 | 2165 | 2167 | 2171 | rBV3  | 8148    | 10428   | 0.22%  | 0.020% |
| 64 | 15.675 | 2181 | 2185 | 2187 | rBV5  | 14633   | 19247   | 0.40%  | 0.036% |
| 65 | 15.716 | 2187 | 2192 | 2195 | rVV   | 81486   | 96975   | 2.00%  | 0.184% |
| 66 | 15.775 | 2198 | 2202 | 2206 | rBV5  | 17796   | 20341   | 0.42%  | 0.039% |
| 67 | 15.898 | 2216 | 2223 | 2230 | rBV   | 2366983 | 3723146 | 76.84% | 7.060% |
| 68 | 15.998 | 2234 | 2240 | 2249 | rVV2  | 869840  | 1300385 | 26.84% | 2.466% |
| 69 | 16.133 | 2254 | 2263 | 2269 | rVB10 | 47239   | 121489  | 2.51%  | 0.230% |
| 70 | 16.215 | 2275 | 2277 | 2279 | rBV3  | 14455   | 13235   | 0.27%  | 0.025% |
| 71 | 16.262 | 2282 | 2285 | 2292 | rVB8  | 16813   | 24742   | 0.51%  | 0.047% |

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

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 16.327 | 2295 | 2296 | 2298 | rBV2 | 14718   | 12328   | 0.25%   | 0.023% |
| 73  | 16.445 | 2314 | 2316 | 2318 | rBV3 | 8706    | 8613    | 0.18%   | 0.016% |
| 74  | 16.527 | 2328 | 2330 | 2333 | rBV4 | 7357    | 8774    | 0.18%   | 0.017% |
| 75  | 16.574 | 2333 | 2338 | 2351 | rVV2 | 107307  | 196638  | 4.06%   | 0.373% |
| 76  | 16.750 | 2366 | 2368 | 2369 | rBV2 | 14368   | 8761    | 0.18%   | 0.017% |
| 77  | 16.768 | 2369 | 2371 | 2373 | rVB3 | 15525   | 13767   | 0.28%   | 0.026% |
| 78  | 16.785 | 2373 | 2374 | 2378 | rBV4 | 12385   | 10390   | 0.21%   | 0.020% |
| 79  | 16.973 | 2403 | 2406 | 2409 | rBV5 | 16392   | 20299   | 0.42%   | 0.038% |
| 80  | 17.085 | 2421 | 2425 | 2427 | rBV4 | 20640   | 28337   | 0.58%   | 0.054% |
| 81  | 17.150 | 2432 | 2436 | 2438 | rVV4 | 11950   | 15508   | 0.32%   | 0.029% |
| 82  | 17.279 | 2456 | 2458 | 2460 | rBV3 | 9424    | 10949   | 0.23%   | 0.021% |
| 83  | 17.367 | 2469 | 2473 | 2477 | rVB2 | 68716   | 89475   | 1.85%   | 0.170% |
| 84  | 17.426 | 2479 | 2483 | 2490 | rVV9 | 31284   | 58222   | 1.20%   | 0.110% |
| 85  | 17.496 | 2494 | 2495 | 2498 | rBV3 | 12814   | 9447    | 0.19%   | 0.018% |
| 86  | 17.655 | 2515 | 2522 | 2529 | rBV  | 1645104 | 2643659 | 54.56%  | 5.013% |
| 87  | 17.749 | 2532 | 2538 | 2547 | rVB2 | 2650423 | 4196545 | 86.61%  | 7.957% |
| 88  | 17.902 | 2561 | 2564 | 2566 | rBV4 | 17801   | 16411   | 0.34%   | 0.031% |
| 89  | 17.996 | 2576 | 2580 | 2584 | rVB6 | 27608   | 46404   | 0.96%   | 0.088% |
| 90  | 18.031 | 2584 | 2586 | 2588 | rBV3 | 15145   | 11581   | 0.24%   | 0.022% |
| 91  | 18.107 | 2596 | 2599 | 2604 | rVB5 | 27001   | 34322   | 0.71%   | 0.065% |
| 92  | 18.501 | 2661 | 2666 | 2671 | rBV2 | 402428  | 594218  | 12.26%  | 1.127% |
| 93  | 19.147 | 2774 | 2776 | 2777 | rBV2 | 17130   | 17367   | 0.36%   | 0.033% |
| 94  | 19.611 | 2853 | 2855 | 2856 | rBV2 | 23508   | 17124   | 0.35%   | 0.032% |
| 95  | 19.758 | 2876 | 2880 | 2886 | rBV2 | 173254  | 237972  | 4.91%   | 0.451% |
| 96  | 20.017 | 2919 | 2924 | 2931 | rBV2 | 3154843 | 4845131 | 100.00% | 9.187% |
| 97  | 21.539 | 3180 | 3183 | 3188 | rVB3 | 237293  | 328800  | 6.79%   | 0.623% |
| 98  | 21.950 | 3247 | 3253 | 3260 | rBV  | 1674078 | 3004352 | 62.01%  | 5.697% |
| 99  | 25.170 | 3792 | 3801 | 3814 | rVB  | 1575106 | 4599308 | 94.93%  | 8.721% |
| 100 | 25.405 | 3833 | 3841 | 3853 | rVB  | 989023  | 2999656 | 61.91%  | 5.688% |

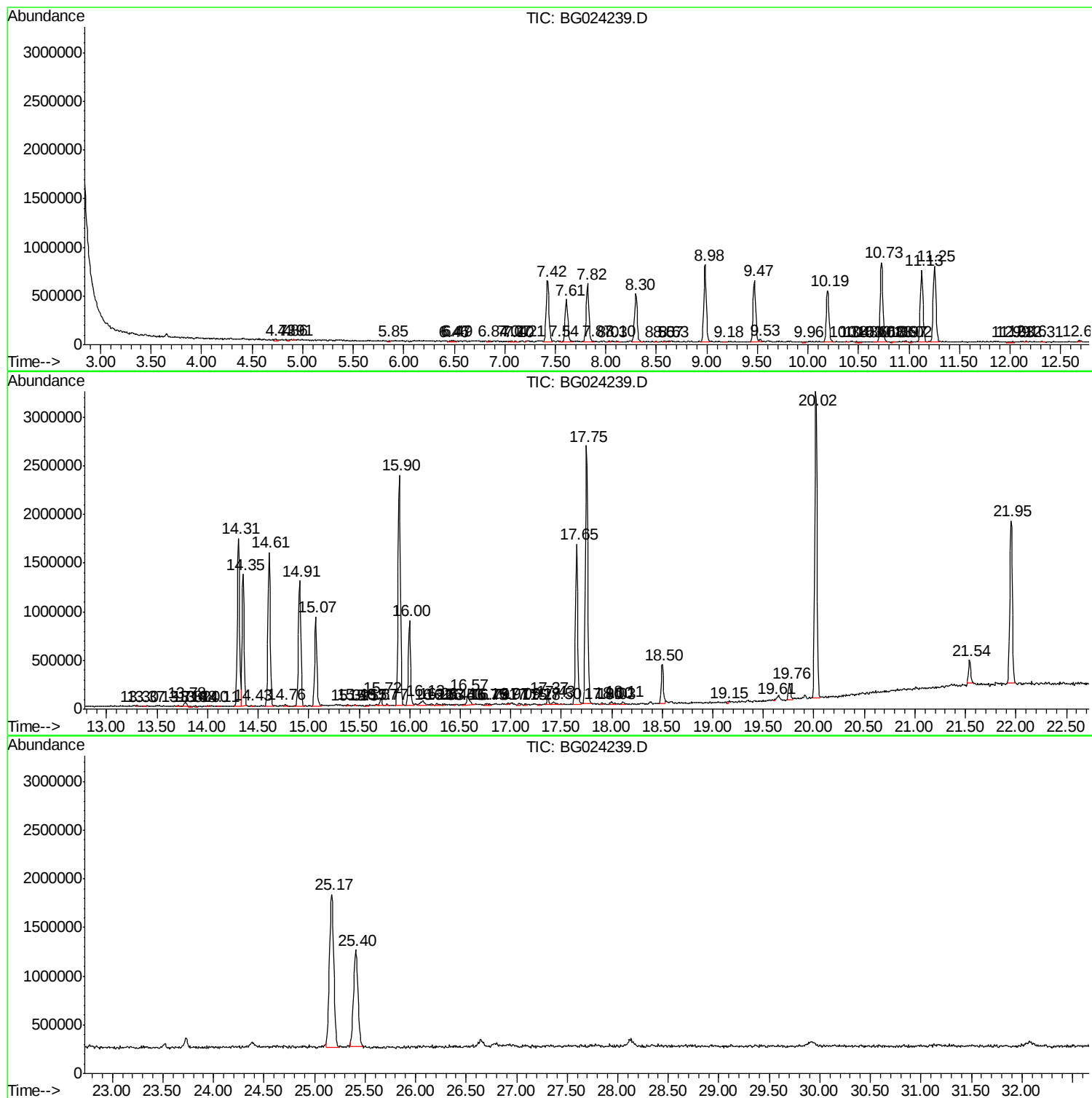
Sum of corrected areas: 52738379

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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  
Quant Title : SVOA CALIBRATION

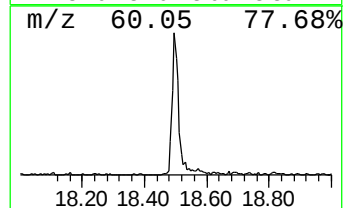
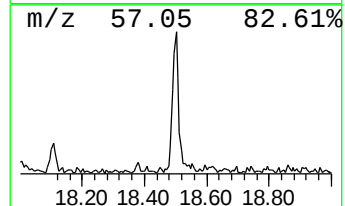
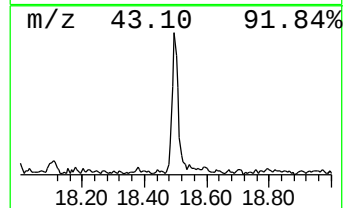
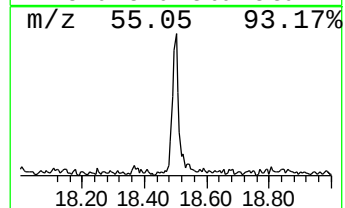
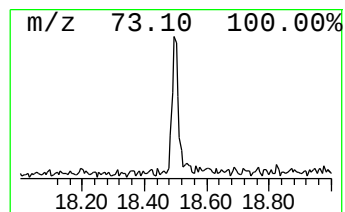
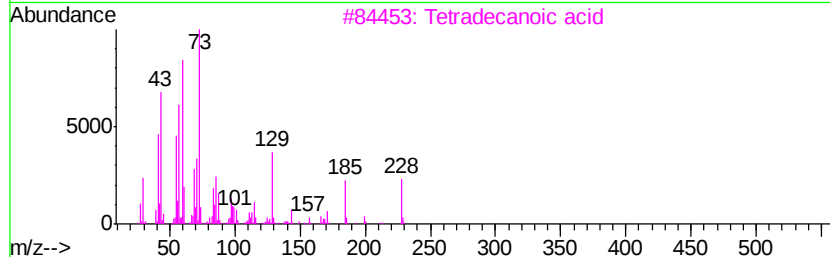
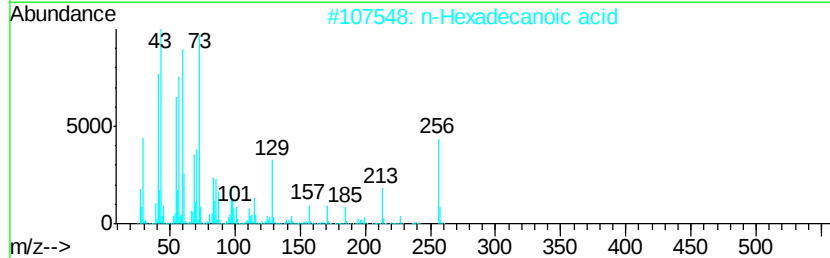
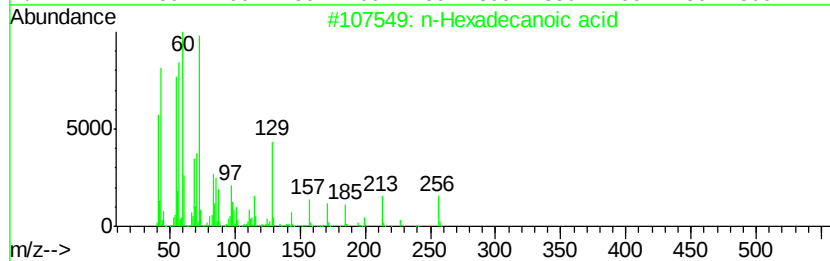
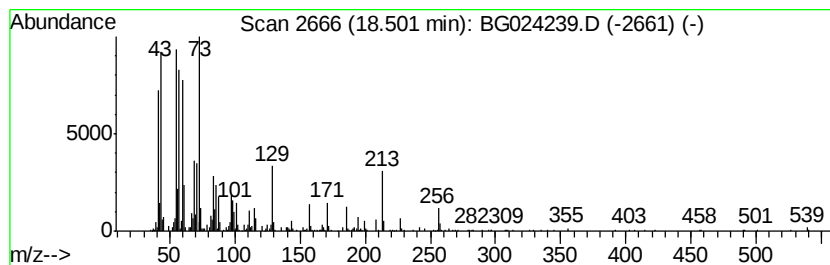
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 n-Hexadecanoic acid Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.50 | 4.50 ng/ul | 594218 | Phenanthrene-d10 | 17.65 |

| Hit# of | 5                   | Tentative ID | MW       | MolForm     | CAS# | Qual |
|---------|---------------------|--------------|----------|-------------|------|------|
| 1       | n-Hexadecanoic acid | 256          | C16H32O2 | 000057-10-3 | 99   |      |
| 2       | n-Hexadecanoic acid | 256          | C16H32O2 | 000057-10-3 | 98   |      |
| 3       | Tetradecanoic acid  | 228          | C14H28O2 | 000544-63-8 | 91   |      |
| 4       | Tridecanoic acid    | 214          | C13H26O2 | 000638-53-9 | 89   |      |
| 5       | Pentadecanoic acid  | 242          | C15H30O2 | 001002-84-2 | 87   |      |



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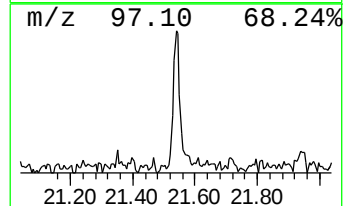
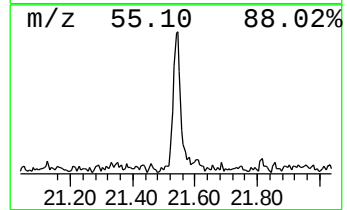
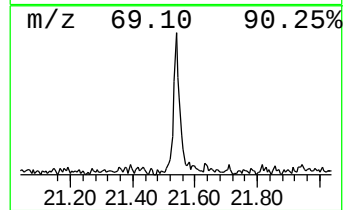
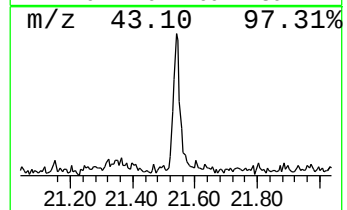
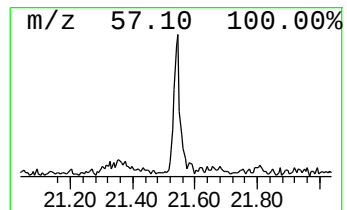
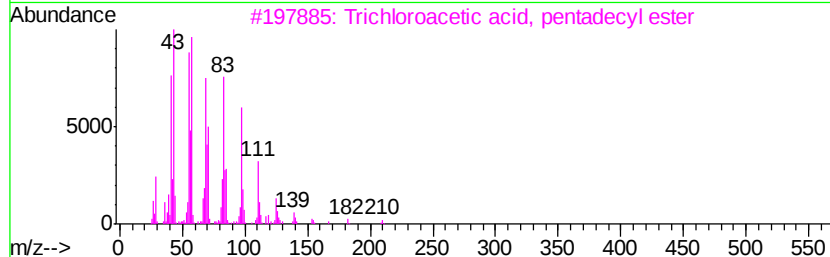
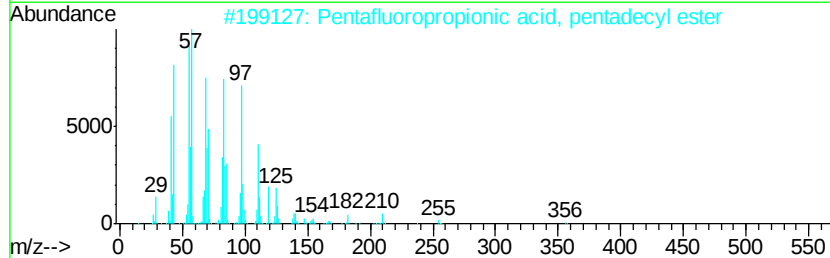
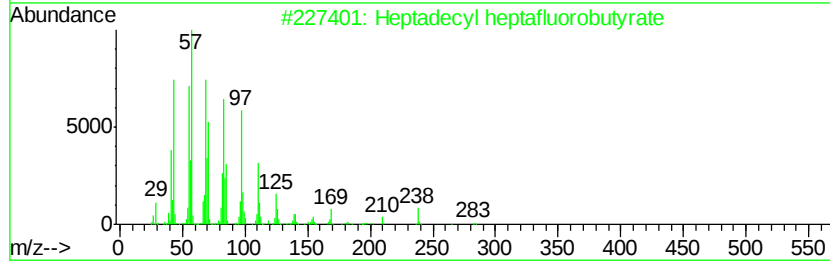
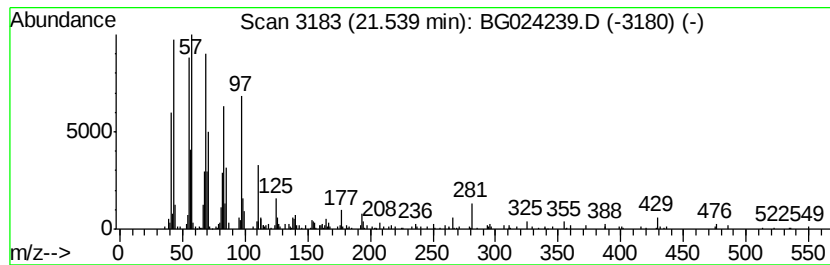
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\*\*\*\*\*  
Peak Number 2 Heptadecyl heptafluorobutyrate Concentration Rank 2

| R.T.    | EstConc    | Area                                | Relative to ISTD |             | R.T.         |      |
|---------|------------|-------------------------------------|------------------|-------------|--------------|------|
| 21.54   | 2.19 ng/ul | 328800                              | Chrysene-d12     |             | 21.95        |      |
| Hit# of | 5          | Tentative ID                        | MW               | MolForm     | CAS#         | Qual |
| 1       |            | Heptadecyl heptafluorobutyrate      | 452              | C21H35F7O2  | 959085-66-6  | 91   |
| 2       |            | Pentafluoropropionic acid, penta... | 374              | C18H31F5O2  | 959092-08-1  | 91   |
| 3       |            | Trichloroacetic acid, pentadecyl... | 372              | C17H31Cl3O2 | 074339-53-0  | 91   |
| 4       |            | Tetradecyl trifluoroacetate         | 310              | C16H29F3O2  | 006222-02-2  | 80   |
| 5       |            | Cyclodocosane, ethyl-               | 336              | C24H48      | 1000151-22-6 | 70   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG101016\  
Data File : BG024239.D  
Acq On : 10 Oct 2016 14:40  
Operator : UM/SJ  
Sample : H5080-11  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
BDNA9

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 |
| n-Hexadecanoic acid  | 18.50 | 4.5     | ng/ul | 594218   | 4                     | 17.65 | 2643660 | 20.0 |
| Heptadecyl heptaf... | 21.54 | 2.2     | ng/ul | 328800   | 5                     | 21.95 | 3004350 | 20.0 |