

Data Path : Z:\HPCHEM1\BNA G\DATA\BG050117\  
 Data File : BG026814.D  
 Acq On : 1 May 2017 19:53  
 Operator : SJ/MA  
 Sample : I2850-11  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 JHSX9

## 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\SOM-EPA-BG042717.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         | 3.424       | 53            | 57          | 65           | rVB2     | 38673          | 68004         | 1.70%           | 0.146%        |
| 2         | 4.188       | 184           | 187         | 196          | rVB3     | 14812          | 26115         | 0.65%           | 0.056%        |
| 3         | 6.215       | 530           | 532         | 539          | rBV3     | 9986           | 11453         | 0.29%           | 0.025%        |
| 4         | 7.191       | 690           | 698         | 713          | rBV      | 289060         | 632234        | 15.82%          | 1.362%        |
| 5         | 7.332       | 715           | 722         | 733          | rVB      | 607893         | 990379        | 24.78%          | 2.134%        |
| 6         | 7.549       | 753           | 759         | 771          | rBV      | 535379         | 930570        | 23.28%          | 2.005%        |
| 7         | 8.007       | 830           | 837         | 848          | rVB      | 526859         | 903248        | 22.60%          | 1.946%        |
| 8         | 8.730       | 953           | 960         | 979          | rVB2     | 218251         | 488913        | 12.23%          | 1.053%        |
| 9         | 9.165       | 1026          | 1034        | 1048         | rVB      | 680820         | 1243632       | 31.11%          | 2.679%        |
| 10        | 9.594       | 1102          | 1107        | 1113         | rVB      | 14172          | 21375         | 0.53%           | 0.046%        |
| 11        | 9.893       | 1151          | 1158        | 1167         | rBV      | 577624         | 1044187       | 26.12%          | 2.249%        |
| 12        | 10.440      | 1244          | 1251        | 1276         | rBV      | 730420         | 1420779       | 35.55%          | 3.061%        |
| 13        | 10.810      | 1304          | 1314        | 1327         | rBV      | 889996         | 1613462       | 40.37%          | 3.476%        |
| 14        | 10.945      | 1328          | 1337        | 1354         | rVV      | 640280         | 1253799       | 31.37%          | 2.701%        |
| 15        | 12.220      | 1549          | 1554        | 1557         | rVB4     | 3921           | 5500          | 0.14%           | 0.012%        |
| 16        | 12.285      | 1562          | 1565        | 1571         | rBV6     | 3980           | 6524          | 0.16%           | 0.014%        |
| 17        | 12.396      | 1578          | 1584        | 1593         | rVB2     | 18635          | 36482         | 0.91%           | 0.079%        |
| 18        | 12.761      | 1637          | 1646        | 1649         | rBV7     | 5523           | 13111         | 0.33%           | 0.028%        |
| 19        | 13.084      | 1696          | 1701        | 1703         | rBV5     | 4069           | 5647          | 0.14%           | 0.012%        |
| 20        | 13.231      | 1723          | 1726        | 1737         | rVB6     | 8105           | 13336         | 0.33%           | 0.029%        |
| 21        | 13.377      | 1741          | 1751        | 1754         | rBV6     | 4012           | 11146         | 0.28%           | 0.024%        |
| 22        | 13.436      | 1757          | 1761        | 1769         | rVB8     | 5626           | 10082         | 0.25%           | 0.022%        |
| 23        | 13.513      | 1769          | 1774        | 1780         | rBV7     | 3947           | 5738          | 0.14%           | 0.012%        |
| 24        | 13.601      | 1785          | 1789        | 1797         | rVB7     | 4055           | 7878          | 0.20%           | 0.017%        |
| 25        | 13.736      | 1804          | 1812        | 1817         | rBV7     | 8793           | 14920         | 0.37%           | 0.032%        |
| 26        | 13.953      | 1844          | 1849        | 1854         | rBV6     | 13332          | 22231         | 0.56%           | 0.048%        |
| 27        | 14.024      | 1854          | 1861        | 1865         | rVV      | 1676202        | 2461887       | 61.59%          | 5.304%        |
| 28        | 14.071      | 1865          | 1869        | 1877         | rVV      | 322820         | 491427        | 12.30%          | 1.059%        |
| 29        | 14.141      | 1877          | 1881        | 1888         | rVB7     | 4605           | 9607          | 0.24%           | 0.021%        |
| 30        | 14.218      | 1891          | 1894        | 1899         | rVB6     | 3909           | 5929          | 0.15%           | 0.013%        |
| 31        | 14.318      | 1899          | 1911        | 1920         | rBV      | 2060524        | 3309162       | 82.79%          | 7.129%        |
| 32        | 14.435      | 1926          | 1931        | 1938         | rVB7     | 14394          | 21125         | 0.53%           | 0.046%        |
| 33        | 14.506      | 1938          | 1943        | 1952         | rVB      | 44368          | 64862         | 1.62%           | 0.140%        |
| 34        | 14.623      | 1952          | 1963        | 1973         | rBV2     | 1381455        | 2191705       | 54.83%          | 4.722%        |

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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\SOM-EPA-BG042717.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |       |         |         |        |        |
|----|--------|------|------|------|-------|---------|---------|--------|--------|
| 35 | 14.699 | 1973 | 1976 | 1985 | rVB4  | 24895   | 39810   | 1.00%  | 0.086% |
| 36 | 14.846 | 1993 | 2001 | 2017 | rBV2  | 188030  | 538327  | 13.47% | 1.160% |
| 37 | 15.058 | 2036 | 2037 | 2041 | rVB4  | 6341    | 5174    | 0.13%  | 0.011% |
| 38 | 15.122 | 2044 | 2048 | 2056 | rVB8  | 11986   | 20103   | 0.50%  | 0.043% |
| 39 | 15.187 | 2056 | 2059 | 2066 | rBV8  | 7423    | 10649   | 0.27%  | 0.023% |
| 40 | 15.404 | 2091 | 2096 | 2099 | rBV   | 11134   | 17337   | 0.43%  | 0.037% |
| 41 | 15.457 | 2099 | 2105 | 2110 | rVB   | 65807   | 89645   | 2.24%  | 0.193% |
| 42 | 15.510 | 2110 | 2114 | 2119 | rBV7  | 6654    | 13376   | 0.33%  | 0.029% |
| 43 | 15.610 | 2119 | 2131 | 2143 | rBV   | 2566032 | 3874639 | 96.94% | 8.347% |
| 44 | 15.728 | 2143 | 2151 | 2164 | rBV   | 534925  | 838743  | 20.98% | 1.807% |
| 45 | 15.851 | 2167 | 2172 | 2178 | rVB3  | 46921   | 81299   | 2.03%  | 0.175% |
| 46 | 15.957 | 2186 | 2190 | 2194 | rVB6  | 8980    | 13165   | 0.33%  | 0.028% |
| 47 | 16.010 | 2194 | 2199 | 2201 | rBV4  | 11366   | 16164   | 0.40%  | 0.035% |
| 48 | 16.039 | 2201 | 2204 | 2207 | rVV3  | 18562   | 24014   | 0.60%  | 0.052% |
| 49 | 16.080 | 2207 | 2211 | 2220 | rVB   | 225347  | 291461  | 7.29%  | 0.628% |
| 50 | 16.186 | 2227 | 2229 | 2233 | rVB5  | 4699    | 5475    | 0.14%  | 0.012% |
| 51 | 16.274 | 2233 | 2244 | 2246 | rBV9  | 7146    | 19651   | 0.49%  | 0.042% |
| 52 | 16.315 | 2246 | 2251 | 2260 | rBV   | 74091   | 126806  | 3.17%  | 0.273% |
| 53 | 16.456 | 2272 | 2275 | 2277 | rBV4  | 5851    | 7026    | 0.18%  | 0.015% |
| 54 | 16.491 | 2278 | 2281 | 2284 | rVB4  | 8039    | 9296    | 0.23%  | 0.020% |
| 55 | 16.550 | 2284 | 2291 | 2292 | rBV5  | 6944    | 13711   | 0.34%  | 0.030% |
| 56 | 16.656 | 2302 | 2309 | 2316 | rBV9  | 15108   | 34708   | 0.87%  | 0.075% |
| 57 | 16.715 | 2316 | 2319 | 2323 | rVV6  | 7463    | 11821   | 0.30%  | 0.025% |
| 58 | 16.762 | 2323 | 2327 | 2333 | rVB7  | 8242    | 15838   | 0.40%  | 0.034% |
| 59 | 16.826 | 2334 | 2338 | 2343 | rVB7  | 10350   | 16089   | 0.40%  | 0.035% |
| 60 | 16.897 | 2343 | 2350 | 2355 | rBV6  | 23656   | 48905   | 1.22%  | 0.105% |
| 61 | 16.950 | 2355 | 2359 | 2367 | rVB9  | 8282    | 18960   | 0.47%  | 0.041% |
| 62 | 17.102 | 2378 | 2385 | 2389 | rBV   | 51402   | 69904   | 1.75%  | 0.151% |
| 63 | 17.150 | 2389 | 2393 | 2405 | rVB7  | 21465   | 45040   | 1.13%  | 0.097% |
| 64 | 17.255 | 2405 | 2411 | 2416 | rVB9  | 13694   | 29781   | 0.75%  | 0.064% |
| 65 | 17.355 | 2416 | 2428 | 2436 | rBV   | 1500081 | 2269187 | 56.77% | 4.888% |
| 66 | 17.455 | 2438 | 2445 | 2454 | rVV2  | 2550560 | 3767315 | 94.25% | 8.116% |
| 67 | 17.526 | 2454 | 2457 | 2462 | rVV7  | 7020    | 11388   | 0.28%  | 0.025% |
| 68 | 17.631 | 2470 | 2475 | 2477 | rVB5  | 4692    | 7041    | 0.18%  | 0.015% |
| 69 | 17.678 | 2482 | 2483 | 2489 | rVB6  | 3094    | 5160    | 0.13%  | 0.011% |
| 70 | 17.743 | 2489 | 2494 | 2500 | rBV10 | 5853    | 14815   | 0.37%  | 0.032% |
| 71 | 17.837 | 2500 | 2510 | 2514 | rBV7  | 17472   | 40354   | 1.01%  | 0.087% |

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Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG042717.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |       |         |         |         |        |
|-----|--------|------|------|------|-------|---------|---------|---------|--------|
| 72  | 17.878 | 2514 | 2517 | 2519 | rBV3  | 4840    | 7257    | 0.18%   | 0.016% |
| 73  | 18.119 | 2553 | 2558 | 2564 | rBV9  | 15018   | 27555   | 0.69%   | 0.059% |
| 74  | 18.178 | 2564 | 2568 | 2572 | rBV6  | 11639   | 16037   | 0.40%   | 0.035% |
| 75  | 18.236 | 2572 | 2578 | 2587 | rBV2  | 226527  | 376422  | 9.42%   | 0.811% |
| 76  | 18.307 | 2588 | 2590 | 2594 | rVB2  | 17550   | 20881   | 0.52%   | 0.045% |
| 77  | 18.477 | 2618 | 2619 | 2623 | rVV4  | 6292    | 5995    | 0.15%   | 0.013% |
| 78  | 18.530 | 2623 | 2628 | 2637 | rVV4  | 17123   | 39007   | 0.98%   | 0.084% |
| 79  | 18.624 | 2639 | 2644 | 2646 | rBV5  | 10676   | 15632   | 0.39%   | 0.034% |
| 80  | 18.654 | 2647 | 2649 | 2653 | rVB5  | 14413   | 14039   | 0.35%   | 0.030% |
| 81  | 18.777 | 2667 | 2670 | 2675 | rVB7  | 7937    | 8257    | 0.21%   | 0.018% |
| 82  | 18.830 | 2675 | 2679 | 2681 | rBV5  | 8813    | 12162   | 0.30%   | 0.026% |
| 83  | 18.983 | 2697 | 2705 | 2708 | rBV9  | 4121    | 7750    | 0.19%   | 0.017% |
| 84  | 19.159 | 2731 | 2735 | 2736 | rBV4  | 9813    | 13145   | 0.33%   | 0.028% |
| 85  | 19.300 | 2756 | 2759 | 2765 | rBV8  | 8068    | 12990   | 0.32%   | 0.028% |
| 86  | 19.376 | 2767 | 2772 | 2788 | rBV2  | 38000   | 105017  | 2.63%   | 0.226% |
| 87  | 19.506 | 2788 | 2794 | 2806 | rBV8  | 49129   | 133404  | 3.34%   | 0.287% |
| 88  | 19.629 | 2809 | 2815 | 2824 | rVB2  | 24692   | 47263   | 1.18%   | 0.102% |
| 89  | 19.735 | 2825 | 2833 | 2843 | rBV   | 2786876 | 3996959 | 100.00% | 8.611% |
| 90  | 19.823 | 2843 | 2848 | 2853 | rVV9  | 14400   | 30003   | 0.75%   | 0.065% |
| 91  | 20.146 | 2899 | 2903 | 2917 | rVB2  | 60280   | 138339  | 3.46%   | 0.298% |
| 92  | 20.863 | 3022 | 3025 | 3030 | rBV6  | 12556   | 20195   | 0.51%   | 0.044% |
| 93  | 21.603 | 3143 | 3151 | 3161 | rBV   | 1393216 | 2268665 | 56.76%  | 4.887% |
| 94  | 23.043 | 3393 | 3396 | 3401 | rVB3  | 35595   | 55474   | 1.39%   | 0.120% |
| 95  | 23.830 | 3525 | 3530 | 3539 | rVB3  | 59088   | 129253  | 3.23%   | 0.278% |
| 96  | 24.547 | 3641 | 3652 | 3668 | rBV2  | 1437471 | 3959555 | 99.06%  | 8.530% |
| 97  | 24.764 | 3678 | 3689 | 3703 | rVB   | 911780  | 2511255 | 62.83%  | 5.410% |
| 98  | 25.851 | 3868 | 3874 | 3882 | rVB4  | 71269   | 191881  | 4.80%   | 0.413% |
| 99  | 27.167 | 4089 | 4098 | 4108 | rBV5  | 76247   | 250700  | 6.27%   | 0.540% |
| 100 | 28.754 | 4361 | 4368 | 4381 | rVB10 | 50612   | 185494  | 4.64%   | 0.400% |

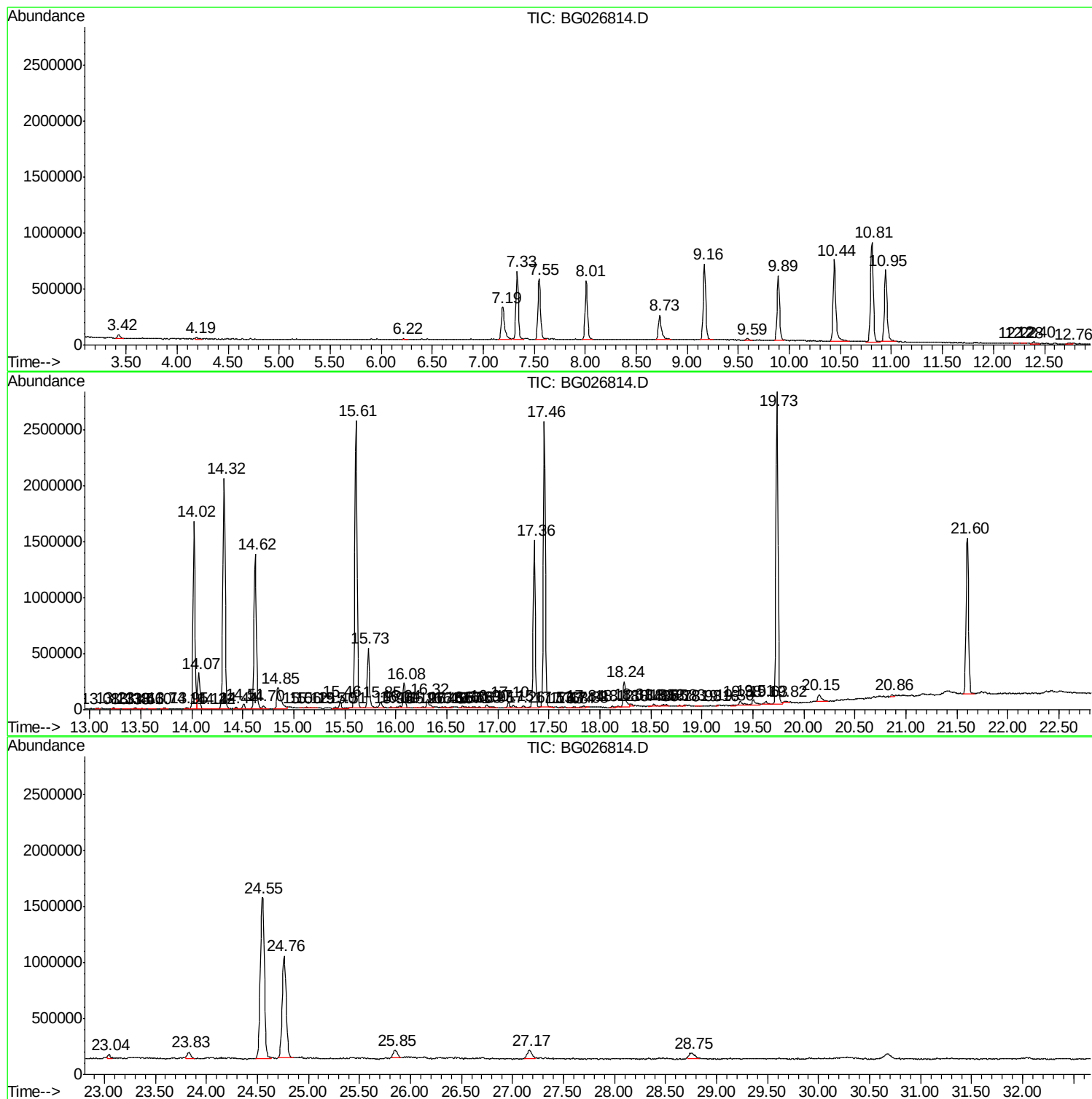
Sum of corrected areas: 46419212

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG042717.M  
Quant Title : SVOA CALIBRATION

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



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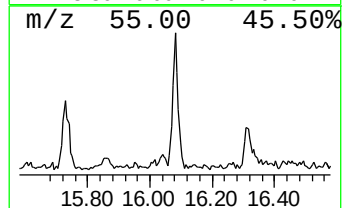
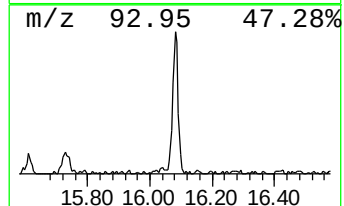
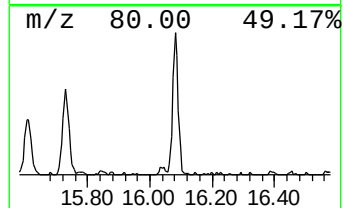
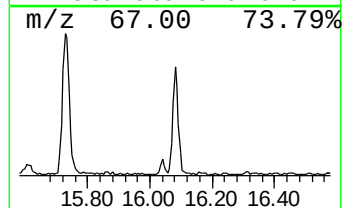
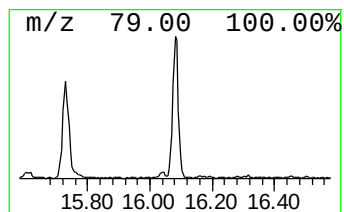
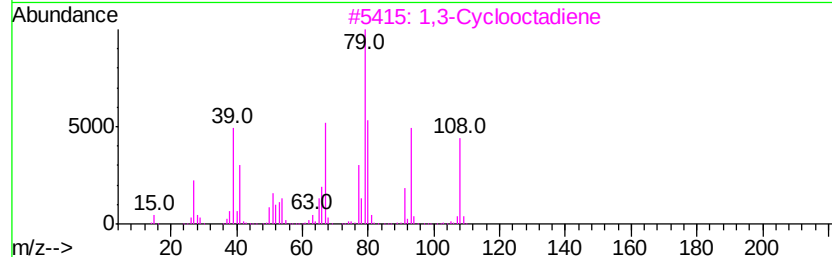
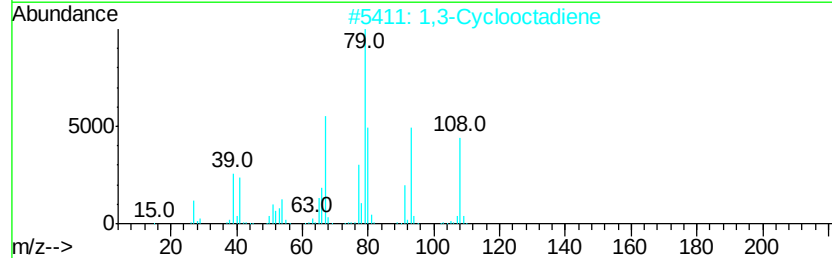
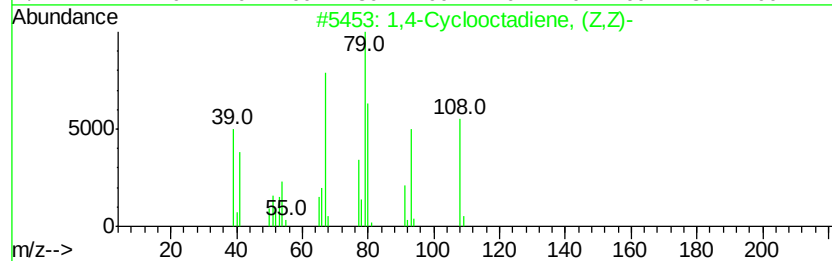
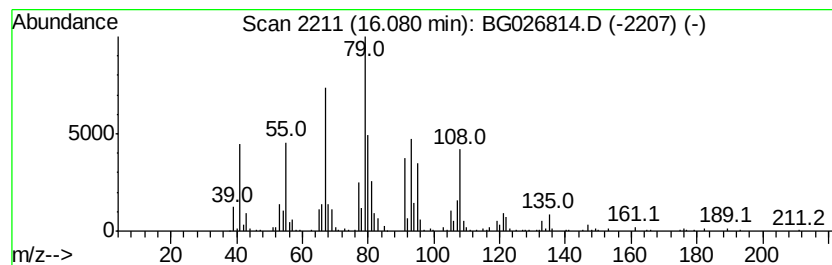
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG042717.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 1,4-Cyclooctadiene, (Z,Z)- Concentration Rank 2

| R.T.    | EstConc                           | Area         | Relative to ISTD | R.T.        |      |      |
|---------|-----------------------------------|--------------|------------------|-------------|------|------|
| 16.08   | 2.57 ng/ul                        | 291461       | Phenanthrene-d10 | 17.36       |      |      |
| Hit# of | 5                                 | Tentative ID | MW               | MolForm     | CAS# | Qual |
| 1       | 1,4-Cyclooctadiene, (Z,Z)-        | 108          | C8H12            | 016327-22-3 | 91   |      |
| 2       | 1,3-Cyclooctadiene                | 108          | C8H12            | 001700-10-3 | 89   |      |
| 3       | 1,3-Cyclooctadiene                | 108          | C8H12            | 001700-10-3 | 70   |      |
| 4       | 1,3-Cyclooctadiene                | 108          | C8H12            | 001700-10-3 | 70   |      |
| 5       | 2-Methylenebicyclo[2.2.1]-heptane | 108          | C8H12            | 000497-35-8 | 52   |      |



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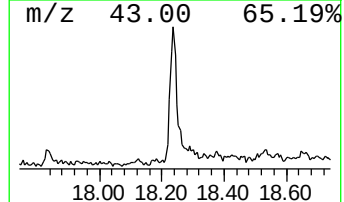
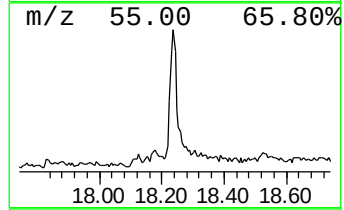
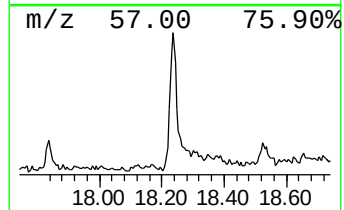
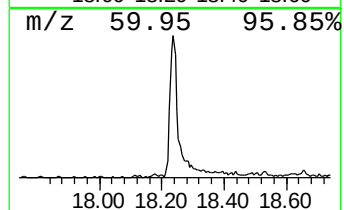
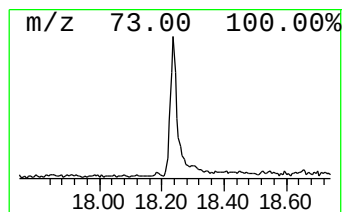
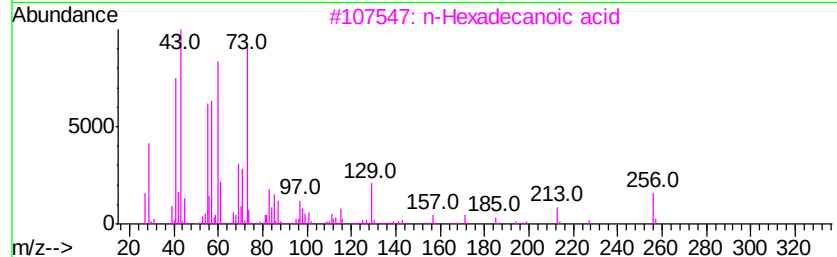
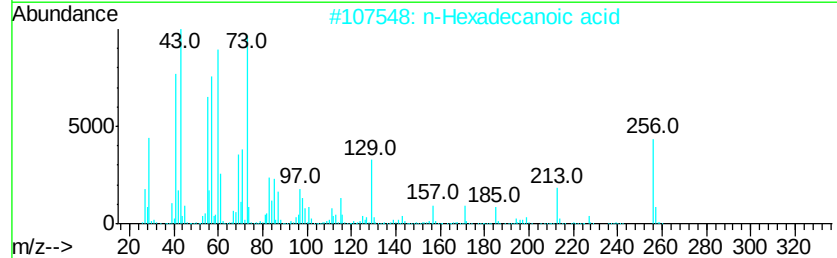
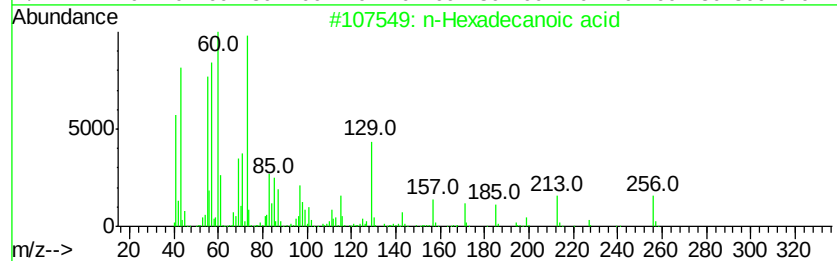
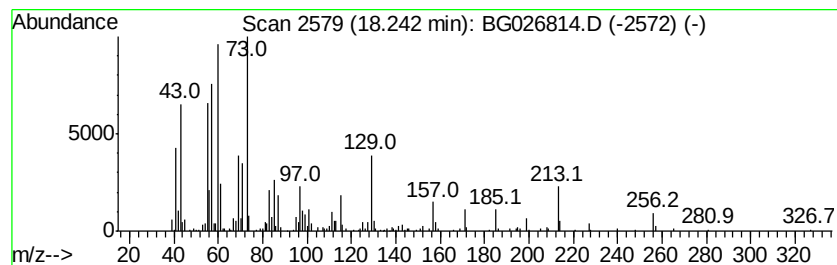
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\*\*\*\*\*  
Peak Number 2 n-Hexadecanoic acid Concentration Rank 1

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 18.24     | 3.32 ng/ul          | 376422 | Phenanthrene-d10 | 17.36       |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 98   |
| 2         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 95   |
| 3         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 91   |
| 4         | Tetradecanoic acid  | 228    | C14H28O2         | 000544-63-8 | 90   |
| 5         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 87   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG050117\  
Data File : BG026814.D  
Acq On : 1 May 2017 19:53  
Operator : SJ/MA  
Sample : I2850-11  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JHSX9

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG042717.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 |
| 1,4-Cyclooctadien... | 16.08 | 2.6     | ng/ul | 291461   | 4                     | 17.36 | 2269190 | 20.0 |
| n-Hexadecanoic acid  | 18.24 | 3.3     | ng/ul | 376422   | 4                     | 17.36 | 2269190 | 20.0 |