

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081016\  
 Data File : BG023603.D  
 Acq On : 10 Aug 2016 21:56  
 Operator : UM/SJ  
 Sample : H4384-09  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P001-SS002-1218-01

## 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-BG080416.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         | 4.460       | 274           | 276         | 277          | rBV2     | 7184           | 5776          | 0.13%           | 0.013%        |
| 2         | 6.181       | 567           | 569         | 574          | rVB4     | 6804           | 8161          | 0.19%           | 0.018%        |
| 3         | 6.222       | 574           | 576         | 581          | rVB6     | 4350           | 5812          | 0.14%           | 0.013%        |
| 4         | 6.310       | 589           | 591         | 593          | rVB3     | 8005           | 5737          | 0.13%           | 0.013%        |
| 5         | 6.539       | 627           | 630         | 632          | rBV4     | 6908           | 6014          | 0.14%           | 0.014%        |
| 6         | 6.639       | 646           | 647         | 650          | rVB2     | 9205           | 7501          | 0.17%           | 0.017%        |
| 7         | 6.745       | 662           | 665         | 669          | rBV4     | 7166           | 12122         | 0.28%           | 0.027%        |
| 8         | 6.786       | 670           | 672         | 675          | rVB3     | 8124           | 6479          | 0.15%           | 0.015%        |
| 9         | 6.833       | 675           | 680         | 681          | rBV5     | 3546           | 5638          | 0.13%           | 0.013%        |
| 10        | 6.956       | 699           | 701         | 703          | rBV3     | 6721           | 5770          | 0.13%           | 0.013%        |
| 11        | 6.992       | 705           | 707         | 710          | rBV3     | 5512           | 5774          | 0.13%           | 0.013%        |
| 12        | 7.268       | 747           | 754         | 764          | rBV      | 471402         | 842237        | 19.63%          | 1.898%        |
| 13        | 7.426       | 773           | 781         | 790          | rBV      | 426849         | 706549        | 16.47%          | 1.592%        |
| 14        | 7.638       | 810           | 817         | 826          | rBV      | 463641         | 829597        | 19.33%          | 1.870%        |
| 15        | 7.755       | 835           | 837         | 840          | rVB3     | 8108           | 7594          | 0.18%           | 0.017%        |
| 16        | 8.114       | 890           | 898         | 908          | rBV      | 553095         | 960328        | 22.38%          | 2.164%        |
| 17        | 8.331       | 933           | 935         | 939          | rVB5     | 7629           | 8393          | 0.20%           | 0.019%        |
| 18        | 8.777       | 1007          | 1011        | 1013         | rBV4     | 5665           | 7380          | 0.17%           | 0.017%        |
| 19        | 8.824       | 1013          | 1019        | 1028         | rVV      | 551458         | 944212        | 22.00%          | 2.128%        |
| 20        | 9.289       | 1091          | 1098        | 1108         | rBV      | 486461         | 867513        | 20.22%          | 1.955%        |
| 21        | 9.888       | 1199          | 1200        | 1206         | rBV4     | 7589           | 12533         | 0.29%           | 0.028%        |
| 22        | 10.017      | 1214          | 1222        | 1233         | rBV      | 406789         | 764754        | 17.82%          | 1.723%        |
| 23        | 10.129      | 1239          | 1241        | 1246         | rVB4     | 4402           | 5351          | 0.12%           | 0.012%        |
| 24        | 10.346      | 1275          | 1278        | 1280         | rBV3     | 6985           | 8595          | 0.20%           | 0.019%        |
| 25        | 10.569      | 1309          | 1316        | 1330         | rBV      | 567454         | 1113811       | 25.96%          | 2.510%        |
| 26        | 10.739      | 1342          | 1345        | 1348         | rBV4     | 6131           | 6502          | 0.15%           | 0.015%        |
| 27        | 10.945      | 1372          | 1380        | 1391         | rBV      | 812569         | 1501774       | 35.00%          | 3.384%        |
| 28        | 11.086      | 1397          | 1404        | 1415         | rBV      | 541953         | 1036669       | 24.16%          | 2.336%        |
| 29        | 11.198      | 1421          | 1423        | 1425         | rVB3     | 6675           | 5325          | 0.12%           | 0.012%        |
| 30        | 11.392      | 1452          | 1456        | 1462         | rBV7     | 6660           | 11213         | 0.26%           | 0.025%        |
| 31        | 11.797      | 1520          | 1525        | 1527         | rVB4     | 4718           | 6981          | 0.16%           | 0.016%        |
| 32        | 12.537      | 1646          | 1651        | 1657         | rBV6     | 11903          | 27015         | 0.63%           | 0.061%        |
| 33        | 12.719      | 1678          | 1682        | 1683         | rVB4     | 4797           | 6060          | 0.14%           | 0.014%        |
| 34        | 12.837      | 1697          | 1702        | 1704         | rBV5     | 4351           | 5891          | 0.14%           | 0.013%        |

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 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080416.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 13.124 | 1748 | 1751 | 1752 | rBV3 | 6864    | 8165    | 0.19%  | 0.018% |
| 36 | 13.242 | 1770 | 1771 | 1775 | rVB4 | 7673    | 5838    | 0.14%  | 0.013% |
| 37 | 13.365 | 1787 | 1792 | 1797 | rVB5 | 10592   | 17465   | 0.41%  | 0.039% |
| 38 | 13.448 | 1802 | 1806 | 1810 | rBV7 | 5681    | 11336   | 0.26%  | 0.026% |
| 39 | 13.571 | 1824 | 1827 | 1831 | rBV4 | 6360    | 9720    | 0.23%  | 0.022% |
| 40 | 13.653 | 1835 | 1841 | 1846 | rBV2 | 44756   | 72313   | 1.69%  | 0.163% |
| 41 | 13.976 | 1892 | 1896 | 1898 | rBV3 | 4352    | 5213    | 0.12%  | 0.012% |
| 42 | 14.105 | 1916 | 1918 | 1922 | rVB5 | 9370    | 11235   | 0.26%  | 0.025% |
| 43 | 14.176 | 1922 | 1930 | 1935 | rBV  | 1221525 | 1898422 | 44.24% | 4.278% |
| 44 | 14.223 | 1935 | 1938 | 1944 | rVB  | 410829  | 607858  | 14.17% | 1.370% |
| 45 | 14.476 | 1974 | 1981 | 1988 | rBV  | 1342437 | 2118345 | 49.37% | 4.774% |
| 46 | 14.652 | 2009 | 2011 | 2015 | rVB5 | 11679   | 14151   | 0.33%  | 0.032% |
| 47 | 14.711 | 2019 | 2021 | 2025 | rBV3 | 5043    | 6060    | 0.14%  | 0.014% |
| 48 | 14.787 | 2025 | 2034 | 2042 | rBV2 | 1315817 | 2221434 | 51.77% | 5.006% |
| 49 | 14.963 | 2061 | 2064 | 2065 | rBV3 | 5068    | 6472    | 0.15%  | 0.015% |
| 50 | 15.004 | 2065 | 2071 | 2087 | rVV  | 423747  | 956044  | 22.28% | 2.155% |
| 51 | 15.380 | 2133 | 2135 | 2136 | rBV2 | 6633    | 5498    | 0.13%  | 0.012% |
| 52 | 15.551 | 2162 | 2164 | 2170 | rBV6 | 6632    | 10024   | 0.23%  | 0.023% |
| 53 | 15.609 | 2170 | 2174 | 2178 | rVB4 | 34542   | 53229   | 1.24%  | 0.120% |
| 54 | 15.656 | 2178 | 2182 | 2183 | rBV3 | 7392    | 8342    | 0.19%  | 0.019% |
| 55 | 15.733 | 2189 | 2195 | 2197 | rBV6 | 10842   | 19966   | 0.47%  | 0.045% |
| 56 | 15.780 | 2197 | 2203 | 2211 | rVV  | 1862564 | 2873442 | 66.96% | 6.476% |
| 57 | 15.903 | 2218 | 2224 | 2234 | rBV  | 659398  | 1002990 | 23.37% | 2.260% |
| 58 | 16.021 | 2237 | 2244 | 2248 | rBV7 | 34741   | 62988   | 1.47%  | 0.142% |
| 59 | 16.167 | 2267 | 2269 | 2272 | rVB4 | 11275   | 8508    | 0.20%  | 0.019% |
| 60 | 16.232 | 2276 | 2280 | 2285 | rVB5 | 8174    | 12519   | 0.29%  | 0.028% |
| 61 | 16.361 | 2298 | 2302 | 2306 | rVB7 | 8958    | 15325   | 0.36%  | 0.035% |
| 62 | 16.473 | 2316 | 2321 | 2333 | rBV2 | 57272   | 130095  | 3.03%  | 0.293% |
| 63 | 16.661 | 2349 | 2353 | 2355 | rBV5 | 13754   | 15646   | 0.36%  | 0.035% |
| 64 | 16.708 | 2359 | 2361 | 2363 | rVB2 | 8162    | 5663    | 0.13%  | 0.013% |
| 65 | 16.743 | 2363 | 2367 | 2368 | rBV4 | 13963   | 18370   | 0.43%  | 0.041% |
| 66 | 16.931 | 2397 | 2399 | 2404 | rBV5 | 12605   | 14333   | 0.33%  | 0.032% |
| 67 | 17.072 | 2415 | 2423 | 2429 | rBV4 | 39952   | 89379   | 2.08%  | 0.201% |
| 68 | 17.272 | 2454 | 2457 | 2462 | rVB3 | 39405   | 50058   | 1.17%  | 0.113% |
| 69 | 17.336 | 2463 | 2468 | 2471 | rBV7 | 15609   | 25975   | 0.61%  | 0.059% |
| 70 | 17.548 | 2497 | 2504 | 2509 | rBV  | 1926617 | 3013844 | 70.23% | 6.792% |
| 71 | 17.648 | 2515 | 2521 | 2528 | rVB2 | 2032452 | 3150013 | 73.41% | 7.099% |

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Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080416.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 72 | 17.918 | 2562 | 2567 | 2569 | rBV6 | 22086   | 36000   | 0.84%   | 0.081% |
| 73 | 18.094 | 2596 | 2597 | 2598 | rBV  | 9040    | 5392    | 0.13%   | 0.012% |
| 74 | 18.129 | 2601 | 2603 | 2608 | rVB4 | 20177   | 28590   | 0.67%   | 0.064% |
| 75 | 18.359 | 2639 | 2642 | 2647 | rBV6 | 32254   | 44979   | 1.05%   | 0.101% |
| 76 | 18.417 | 2647 | 2652 | 2658 | rVV3 | 323174  | 506048  | 11.79%  | 1.140% |
| 77 | 18.476 | 2659 | 2662 | 2670 | rVB3 | 104839  | 168570  | 3.93%   | 0.380% |
| 78 | 18.617 | 2681 | 2686 | 2690 | rBV2 | 69269   | 116406  | 2.71%   | 0.262% |
| 79 | 18.658 | 2691 | 2693 | 2699 | rVB  | 50941   | 63616   | 1.48%   | 0.143% |
| 80 | 18.923 | 2735 | 2738 | 2741 | rBV4 | 21027   | 32112   | 0.75%   | 0.072% |
| 81 | 19.163 | 2777 | 2779 | 2783 | rVB4 | 26244   | 24838   | 0.58%   | 0.056% |
| 82 | 19.216 | 2785 | 2788 | 2791 | rVB  | 38178   | 44153   | 1.03%   | 0.100% |
| 83 | 19.251 | 2792 | 2794 | 2799 | rVV2 | 19190   | 22725   | 0.53%   | 0.051% |
| 84 | 19.340 | 2804 | 2809 | 2813 | rVB  | 86076   | 129185  | 3.01%   | 0.291% |
| 85 | 19.381 | 2814 | 2816 | 2817 | rBV2 | 30152   | 22606   | 0.53%   | 0.051% |
| 86 | 19.575 | 2846 | 2849 | 2850 | rBV3 | 38419   | 38431   | 0.90%   | 0.087% |
| 87 | 19.604 | 2850 | 2854 | 2859 | rVB  | 200696  | 296924  | 6.92%   | 0.669% |
| 88 | 19.686 | 2865 | 2868 | 2875 | rVB5 | 106733  | 162540  | 3.79%   | 0.366% |
| 89 | 19.939 | 2905 | 2911 | 2922 | rBV2 | 2670595 | 4291107 | 100.00% | 9.671% |
| 90 | 20.033 | 2924 | 2927 | 2933 | rVB3 | 49350   | 74918   | 1.75%   | 0.169% |
| 91 | 21.866 | 3232 | 3239 | 3246 | rBV2 | 2023403 | 3664286 | 85.39%  | 8.258% |
| 92 | 25.026 | 3769 | 3777 | 3789 | rVB2 | 1093498 | 2971481 | 69.25%  | 6.697% |
| 93 | 25.267 | 3808 | 3818 | 3829 | rVB  | 1136615 | 3310143 | 77.14%  | 7.460% |

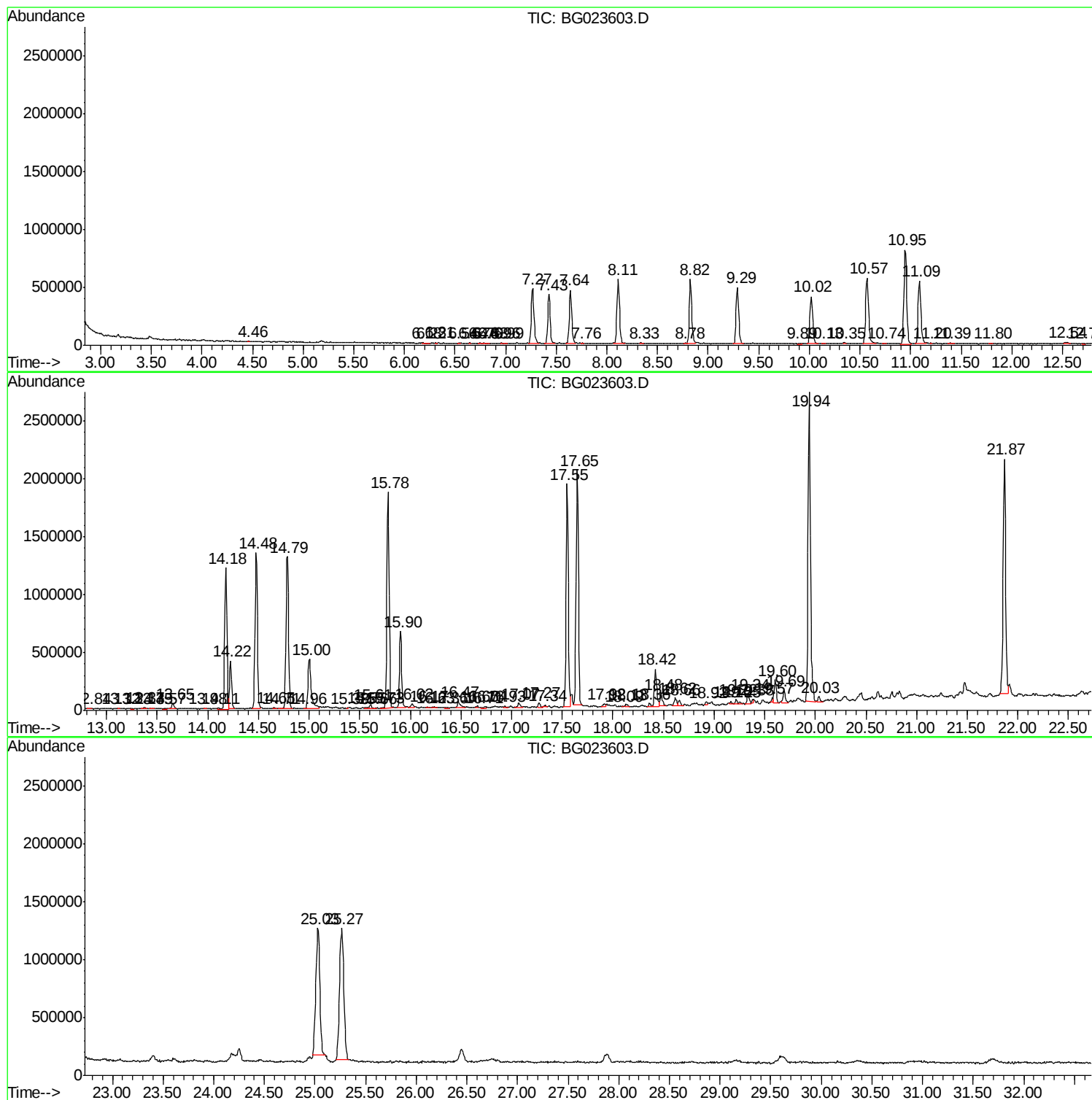
Sum of corrected areas: 44372389

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Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080416.M  
Quant Title : SVOA CALIBRATION

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



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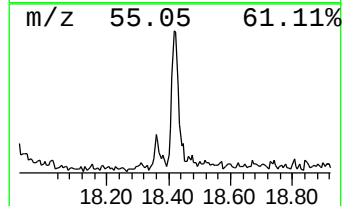
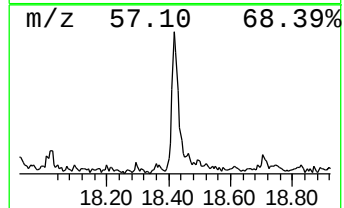
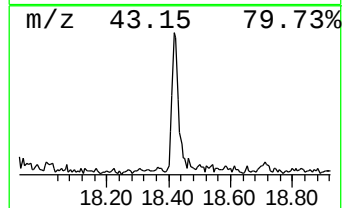
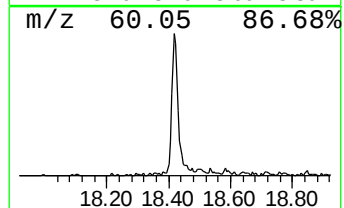
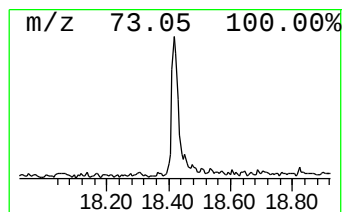
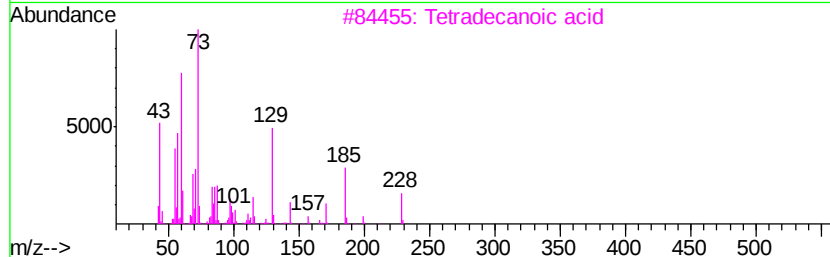
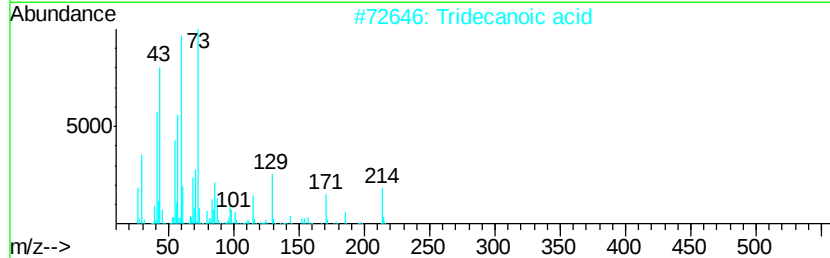
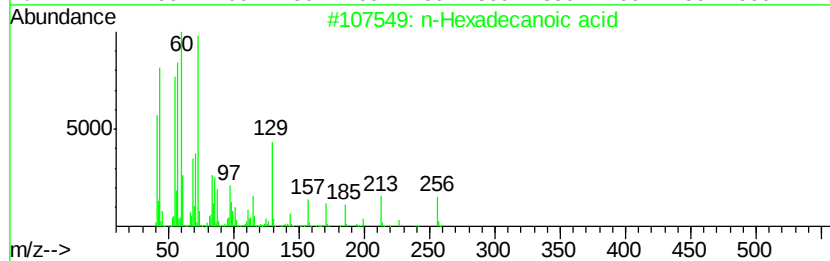
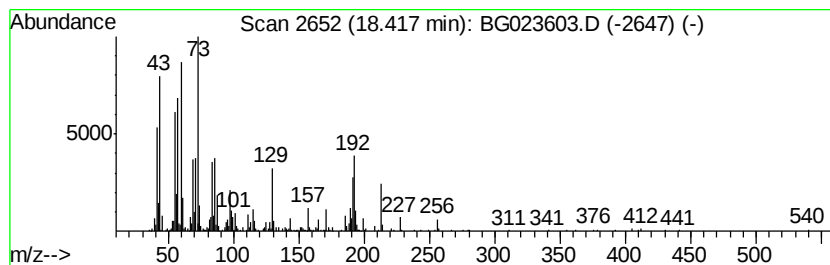
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.42 | 3.36 ng/ul | 506048 | Phenanthrene-d10 | 17.55 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 92   |
| 2    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 60   |
| 3    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 55   |
| 4    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 53   |
| 5    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 50   |



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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 | 18.42 | 3.4     | ng/ul | 506048   | 4                       | 17.55 | 3013840 | 20.0 |