

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM100819\  
 Data File : BM023104.D  
 Acq On : 10 Oct 2019 04:42  
 Operator : JU  
 Sample : K5177-07  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BEP96

## 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:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM092719MA.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         | 3.252       | 43            | 45          | 55           | rVB      | 24625          | 38583         | 1.53%           | 0.127%        |
| 2         | 3.669       | 113           | 116         | 123          | rVB      | 8082           | 11228         | 0.44%           | 0.037%        |
| 3         | 3.764       | 129           | 132         | 139          | rVB      | 31552          | 40968         | 1.62%           | 0.135%        |
| 4         | 3.840       | 142           | 145         | 149          | rVB5     | 5285           | 7331          | 0.29%           | 0.024%        |
| 5         | 3.893       | 150           | 154         | 159          | rVB2     | 13667          | 19403         | 0.77%           | 0.064%        |
| 6         | 3.981       | 165           | 169         | 173          | rVB      | 11629          | 13058         | 0.52%           | 0.043%        |
| 7         | 4.334       | 225           | 229         | 230          | rBV3     | 2553           | 2992          | 0.12%           | 0.010%        |
| 8         | 4.534       | 260           | 263         | 268          | rBV6     | 4056           | 7128          | 0.28%           | 0.023%        |
| 9         | 4.899       | 321           | 325         | 330          | rBV      | 13736          | 21902         | 0.87%           | 0.072%        |
| 10        | 6.452       | 585           | 589         | 595          | rBV4     | 2612           | 4980          | 0.20%           | 0.016%        |
| 11        | 6.775       | 642           | 644         | 650          | rBV5     | 3235           | 5484          | 0.22%           | 0.018%        |
| 12        | 6.940       | 665           | 672         | 686          | rBV2     | 411361         | 751720        | 29.78%          | 2.474%        |
| 13        | 7.105       | 694           | 700         | 713          | rBV      | 317317         | 516569        | 20.46%          | 1.700%        |
| 14        | 7.305       | 727           | 734         | 745          | rVB      | 453189         | 727213        | 28.81%          | 2.393%        |
| 15        | 7.405       | 747           | 751         | 756          | rVB5     | 2849           | 4268          | 0.17%           | 0.014%        |
| 16        | 7.769       | 806           | 813         | 822          | rBV      | 648576         | 1005128       | 39.82%          | 3.307%        |
| 17        | 7.846       | 822           | 826         | 834          | rVB2     | 4690           | 9039          | 0.36%           | 0.030%        |
| 18        | 8.475       | 926           | 933         | 944          | rBV      | 410697         | 661354        | 26.20%          | 2.176%        |
| 19        | 8.599       | 949           | 954         | 961          | rVB2     | 8169           | 15815         | 0.63%           | 0.052%        |
| 20        | 8.922       | 1001          | 1009        | 1018         | rBV      | 400765         | 651700        | 25.82%          | 2.144%        |
| 21        | 9.357       | 1079          | 1083        | 1090         | rVB      | 6857           | 10577         | 0.42%           | 0.035%        |
| 22        | 9.640       | 1125          | 1131        | 1146         | rBV      | 316389         | 533149        | 21.12%          | 1.754%        |
| 23        | 10.181      | 1212          | 1223        | 1236         | rBV      | 526018         | 856653        | 33.93%          | 2.819%        |
| 24        | 10.557      | 1278          | 1287        | 1295         | rBV      | 846608         | 1406113       | 55.70%          | 4.627%        |
| 25        | 10.693      | 1303          | 1310        | 1324         | rBV      | 354363         | 630026        | 24.96%          | 2.073%        |
| 26        | 11.851      | 1502          | 1507        | 1512         | rBV5     | 1825           | 2747          | 0.11%           | 0.009%        |
| 27        | 11.992      | 1528          | 1531        | 1536         | rVB2     | 1747           | 2661          | 0.11%           | 0.009%        |
| 28        | 12.145      | 1551          | 1557        | 1562         | rBV3     | 6839           | 11560         | 0.46%           | 0.038%        |
| 29        | 12.222      | 1567          | 1570        | 1575         | rVB3     | 2398           | 3674          | 0.15%           | 0.012%        |
| 30        | 12.439      | 1603          | 1607        | 1612         | rBV2     | 2357           | 3242          | 0.13%           | 0.011%        |
| 31        | 12.763      | 1659          | 1662        | 1669         | rVB4     | 2715           | 4525          | 0.18%           | 0.015%        |
| 32        | 13.022      | 1699          | 1706        | 1708         | rBV4     | 3589           | 5515          | 0.22%           | 0.018%        |
| 33        | 13.045      | 1708          | 1710        | 1714         | rVB2     | 2956           | 3406          | 0.13%           | 0.011%        |
| 34        | 13.239      | 1738          | 1743        | 1747         | rBV4     | 3275           | 4568          | 0.18%           | 0.015%        |

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|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 13.304 | 1752 | 1754 | 1758 | rBV3 | 1897    | 2755    | 0.11%  | 0.009% |
| 36 | 13.728 | 1822 | 1826 | 1829 | rVB3 | 3255    | 3742    | 0.15%  | 0.012% |
| 37 | 13.816 | 1833 | 1841 | 1845 | rBV  | 844963  | 1142924 | 45.27% | 3.761% |
| 38 | 13.863 | 1845 | 1849 | 1854 | rVB  | 301407  | 401556  | 15.91% | 1.321% |
| 39 | 14.098 | 1878 | 1889 | 1898 | rBV  | 1011332 | 1481300 | 58.68% | 4.874% |
| 40 | 14.316 | 1922 | 1926 | 1930 | rVB  | 6188    | 7825    | 0.31%  | 0.026% |
| 41 | 14.404 | 1935 | 1941 | 1949 | rVV  | 1173662 | 1719599 | 68.12% | 5.658% |
| 42 | 14.469 | 1949 | 1952 | 1955 | rVV2 | 3631    | 5686    | 0.23%  | 0.019% |
| 43 | 14.504 | 1955 | 1958 | 1963 | rVB3 | 5859    | 6982    | 0.28%  | 0.023% |
| 44 | 14.604 | 1968 | 1975 | 1979 | rBV  | 242475  | 376994  | 14.93% | 1.240% |
| 45 | 14.651 | 1979 | 1983 | 1996 | rVV  | 93488   | 174282  | 6.90%  | 0.573% |
| 46 | 14.757 | 1996 | 2001 | 2006 | rVV3 | 11592   | 16735   | 0.66%  | 0.055% |
| 47 | 14.822 | 2006 | 2012 | 2017 | rVB2 | 35341   | 49127   | 1.95%  | 0.162% |
| 48 | 14.933 | 2028 | 2031 | 2035 | rVB4 | 1918    | 2562    | 0.10%  | 0.008% |
| 49 | 15.222 | 2074 | 2080 | 2084 | rBV4 | 5691    | 12091   | 0.48%  | 0.040% |
| 50 | 15.269 | 2084 | 2088 | 2092 | rVB2 | 6685    | 9621    | 0.38%  | 0.032% |
| 51 | 15.398 | 2101 | 2110 | 2116 | rBV  | 1277093 | 1768951 | 70.07% | 5.821% |
| 52 | 15.451 | 2116 | 2119 | 2124 | rVB3 | 10116   | 14197   | 0.56%  | 0.047% |
| 53 | 15.516 | 2124 | 2130 | 2137 | rBV  | 242364  | 341325  | 13.52% | 1.123% |
| 54 | 15.639 | 2146 | 2151 | 2154 | rBV  | 11936   | 17437   | 0.69%  | 0.057% |
| 55 | 15.663 | 2154 | 2155 | 2160 | rVB3 | 2556    | 2793    | 0.11%  | 0.009% |
| 56 | 15.898 | 2189 | 2195 | 2199 | rVB5 | 3964    | 7619    | 0.30%  | 0.025% |
| 57 | 16.122 | 2230 | 2233 | 2236 | rBV3 | 9318    | 12930   | 0.51%  | 0.043% |
| 58 | 16.186 | 2240 | 2244 | 2247 | rVB3 | 5407    | 7237    | 0.29%  | 0.024% |
| 59 | 16.269 | 2248 | 2258 | 2261 | rBV4 | 3392    | 9610    | 0.38%  | 0.032% |
| 60 | 16.292 | 2261 | 2262 | 2266 | rVB4 | 2968    | 2853    | 0.11%  | 0.009% |
| 61 | 16.392 | 2277 | 2279 | 2282 | rVB3 | 3043    | 3346    | 0.13%  | 0.011% |
| 62 | 16.498 | 2295 | 2297 | 2301 | rVB3 | 2243    | 2549    | 0.10%  | 0.008% |
| 63 | 16.551 | 2304 | 2306 | 2312 | rVB7 | 3638    | 4312    | 0.17%  | 0.014% |
| 64 | 16.692 | 2327 | 2330 | 2334 | rBV2 | 12099   | 13526   | 0.54%  | 0.045% |
| 65 | 16.727 | 2334 | 2336 | 2342 | rVB5 | 3919    | 5449    | 0.22%  | 0.018% |
| 66 | 16.804 | 2345 | 2349 | 2351 | rBV4 | 4535    | 5386    | 0.21%  | 0.018% |
| 67 | 16.874 | 2359 | 2361 | 2365 | rBV3 | 3155    | 3247    | 0.13%  | 0.011% |
| 68 | 16.922 | 2365 | 2369 | 2372 | rBV5 | 6853    | 10890   | 0.43%  | 0.036% |
| 69 | 17.045 | 2388 | 2390 | 2394 | rVB3 | 5906    | 6166    | 0.24%  | 0.020% |
| 70 | 17.145 | 2398 | 2407 | 2412 | rBV2 | 1297984 | 1867830 | 73.99% | 6.146% |
| 71 | 17.186 | 2412 | 2414 | 2418 | rVV  | 81560   | 97776   | 3.87%  | 0.322% |

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|----|--------|------|------|------|------|---------|---------|---------|--------|
| 72 | 17.245 | 2418 | 2424 | 2435 | rVV  | 1282867 | 1796645 | 71.17%  | 5.912% |
| 73 | 17.339 | 2438 | 2440 | 2446 | rVB7 | 7645    | 7869    | 0.31%   | 0.026% |
| 74 | 17.545 | 2473 | 2475 | 2480 | rVB2 | 8875    | 9455    | 0.37%   | 0.031% |
| 75 | 17.727 | 2503 | 2506 | 2510 | rBV3 | 7469    | 11258   | 0.45%   | 0.037% |
| 76 | 17.821 | 2520 | 2522 | 2526 | rVB5 | 5100    | 5023    | 0.20%   | 0.017% |
| 77 | 18.045 | 2552 | 2560 | 2569 | rBV2 | 110055  | 213094  | 8.44%   | 0.701% |
| 78 | 18.210 | 2584 | 2588 | 2593 | rBV2 | 24469   | 42030   | 1.66%   | 0.138% |
| 79 | 18.251 | 2593 | 2595 | 2600 | rVB  | 14787   | 15813   | 0.63%   | 0.052% |
| 80 | 18.521 | 2638 | 2641 | 2645 | rBV2 | 14340   | 16424   | 0.65%   | 0.054% |
| 81 | 18.557 | 2645 | 2647 | 2653 | rVB5 | 13722   | 18099   | 0.72%   | 0.060% |
| 82 | 18.939 | 2708 | 2712 | 2716 | rBV2 | 34225   | 56023   | 2.22%   | 0.184% |
| 83 | 19.204 | 2753 | 2757 | 2762 | rVB  | 197782  | 243063  | 9.63%   | 0.800% |
| 84 | 19.539 | 2808 | 2814 | 2825 | rVB2 | 1677030 | 2524465 | 100.00% | 8.307% |
| 85 | 21.045 | 3066 | 3070 | 3077 | rBV2 | 438788  | 574440  | 22.75%  | 1.890% |
| 86 | 21.327 | 3112 | 3118 | 3122 | rBV  | 1733366 | 2314389 | 91.68%  | 7.615% |
| 87 | 22.898 | 3381 | 3385 | 3390 | rBV  | 270351  | 423352  | 16.77%  | 1.393% |
| 88 | 23.433 | 3470 | 3476 | 3481 | rBV  | 1231856 | 2261766 | 89.59%  | 7.442% |
| 89 | 23.574 | 3494 | 3500 | 3508 | rBV  | 1218580 | 2243944 | 88.89%  | 7.384% |

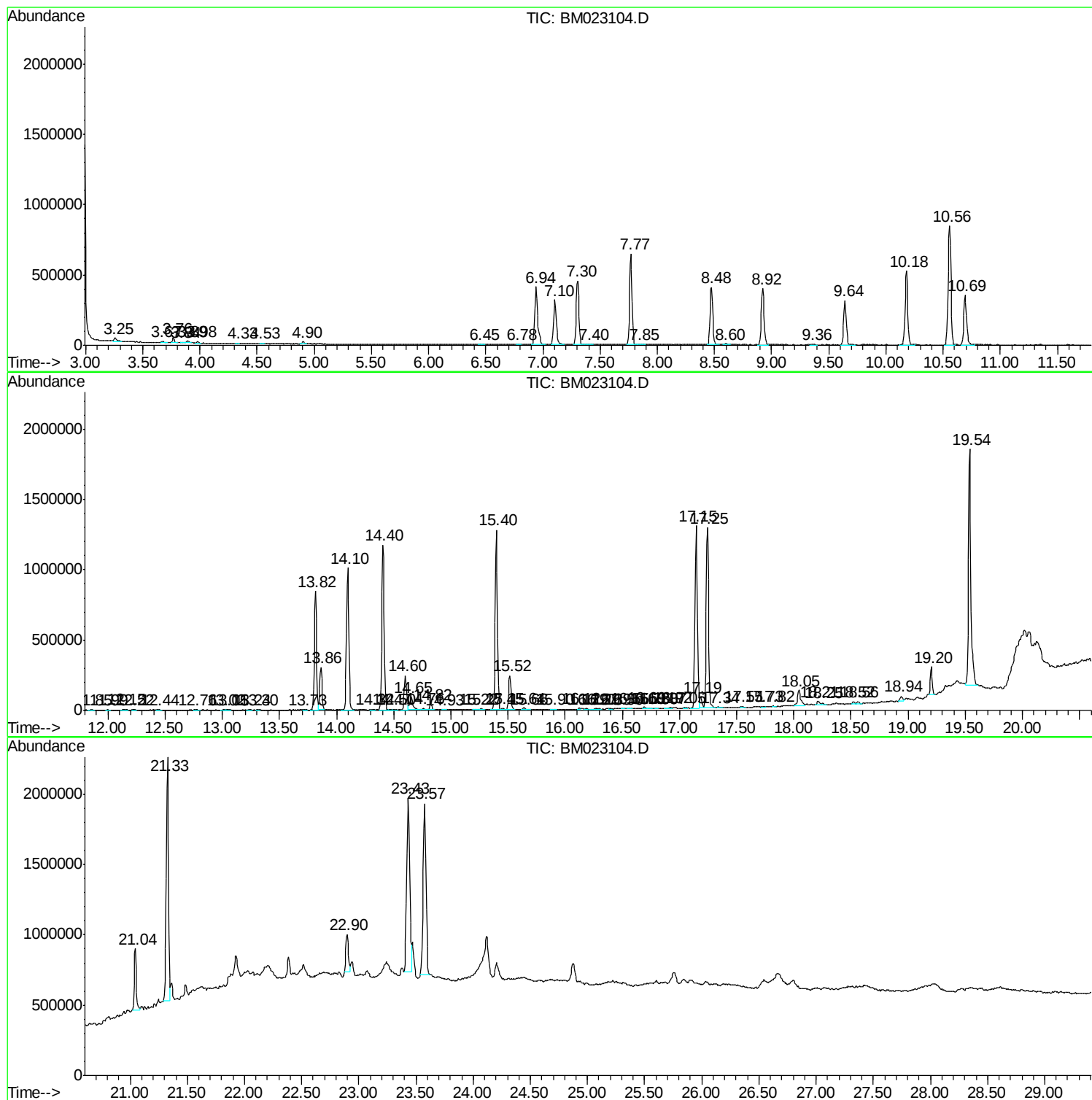
Sum of corrected areas: 30390641

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM092719MA.M  
Quant Title : SVOA CALIBRATION

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



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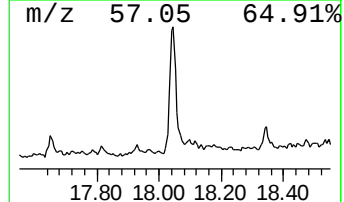
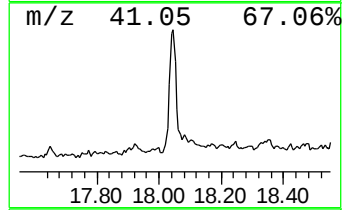
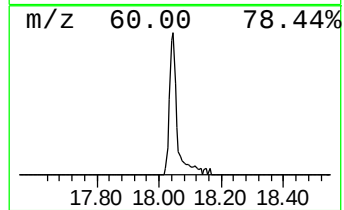
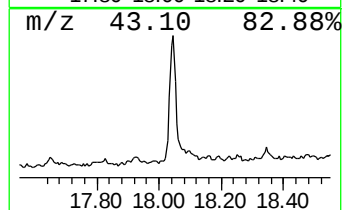
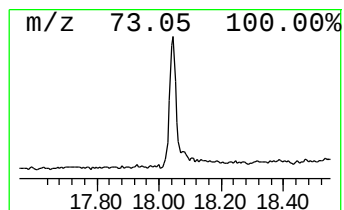
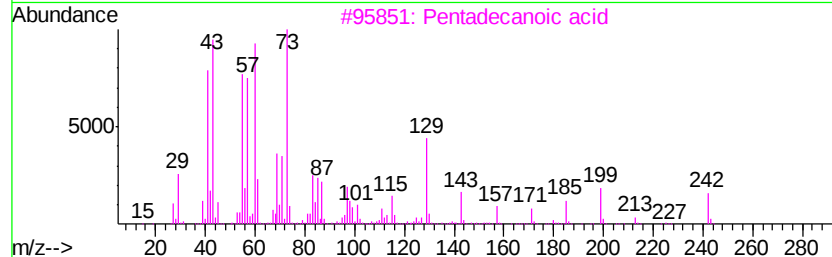
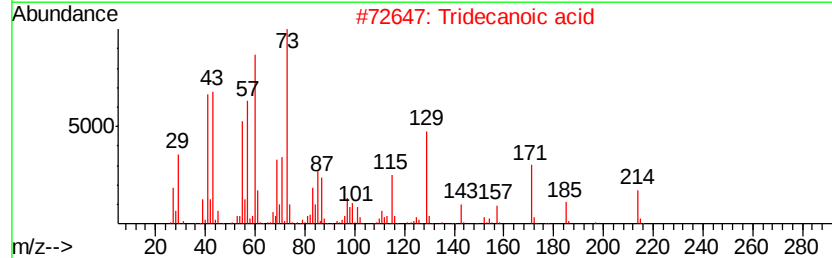
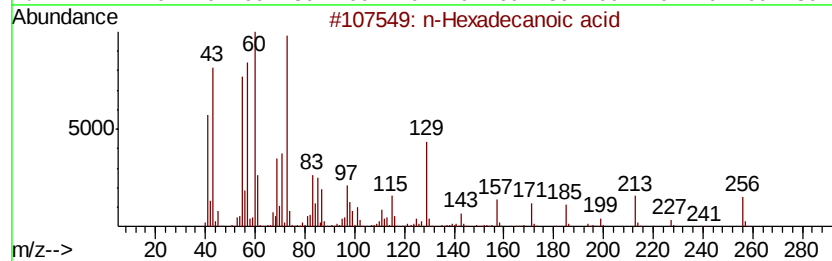
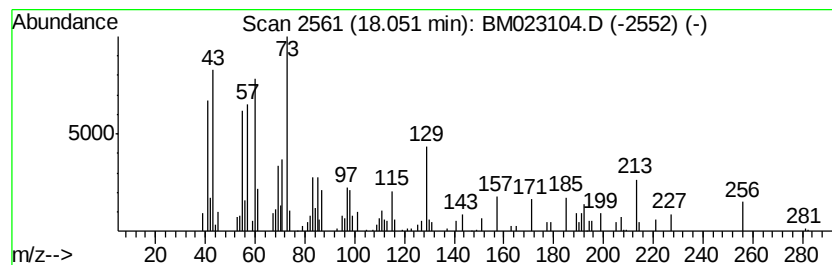
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Quant Title : SVOA CALIBRATION

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

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

| R.T.    | EstConc    | Area                | Relative to ISTD |          | R.T.        |      |
|---------|------------|---------------------|------------------|----------|-------------|------|
| 18.05   | 2.28 ng/ul | 213094              | Phenanthrene-d10 |          | 17.15       |      |
| Hit# of | 5          | Tentative ID        | MW               | MolForm  | CAS#        | Qual |
| 1       |            | n-Hexadecanoic acid | 256              | C16H32O2 | 000057-10-3 | 99   |
| 2       |            | Tridecanoic acid    | 214              | C13H26O2 | 000638-53-9 | 89   |
| 3       |            | Pentadecanoic acid  | 242              | C15H30O2 | 001002-84-2 | 87   |
| 4       |            | Tridecanoic acid    | 214              | C13H26O2 | 000638-53-9 | 81   |
| 5       |            | Tridecanoic acid    | 214              | C13H26O2 | 000638-53-9 | 76   |



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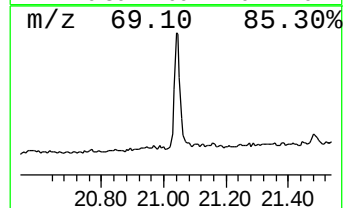
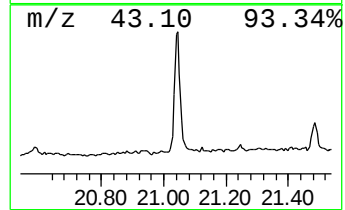
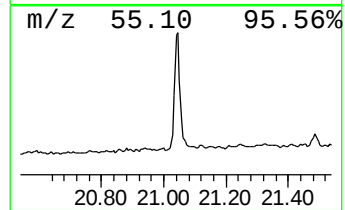
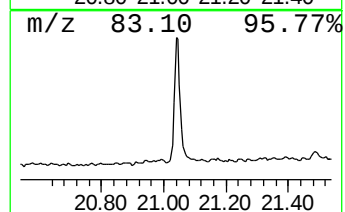
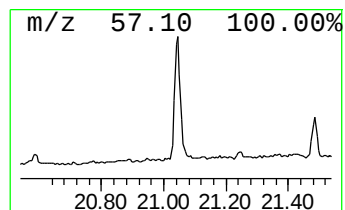
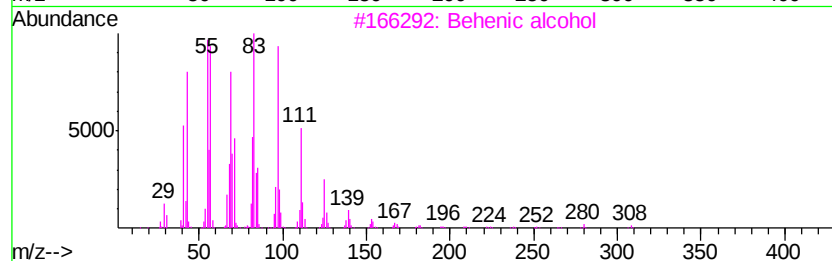
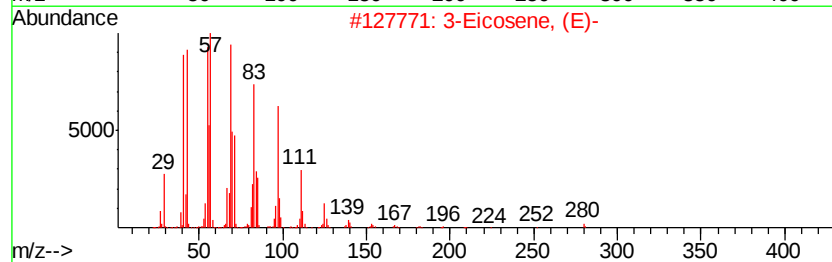
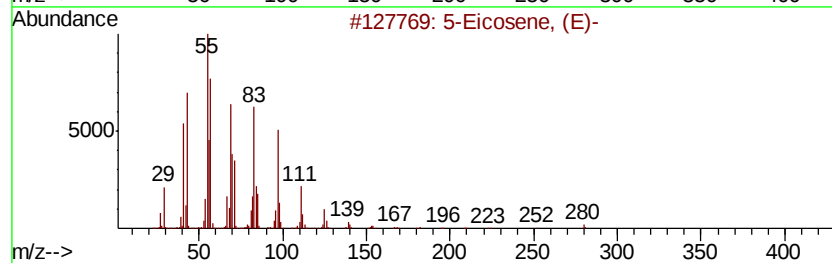
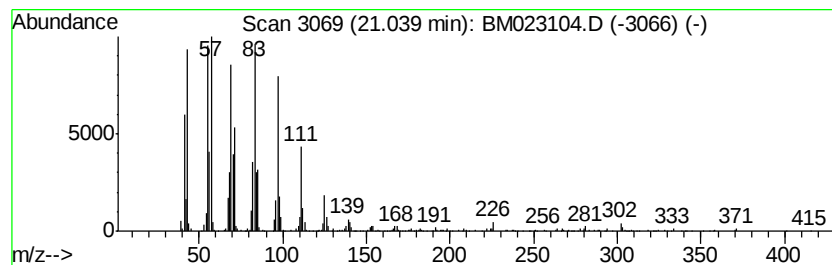
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Cyclic21.04 Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.04 | 4.96 ng/ul | 574440 | Chrysene-d12     | 21.33 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | 5-Eicosene, (E)-                    | 280 | C20H40     | 074685-30-6 | 98   |
| 2    |    | 3-Eicosene, (E)-                    | 280 | C20H40     | 074685-33-9 | 96   |
| 3    |    | Behenic alcohol                     | 326 | C22H46O    | 000661-19-8 | 95   |
| 4    |    | Trifluoroacetoxy hexadecane         | 338 | C18H33F3O2 | 006222-03-3 | 94   |
| 5    |    | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 94   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| n-Hexadecanoic acid  | 18.05 | 2.3     | ng/ul | 213094   | 4                     | 17.15 | 1867830 | 20.0 |
| (DEL) Alkane: Cyc... | 21.04 | 5.0     | ng/ul | 574440   | 5                     | 21.33 | 2314390 | 20.0 |