

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091818\  
 Data File : VU026869.D  
 Acq On : 18 Sep 2018 17:57  
 Operator : MD/SY  
 Sample : J4896-11  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C08M4

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0 % 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:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M  
 Title : VOC Analysis

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         | 1.395       | 62            | 69          | 80           | rBV      | 99735          | 107805        | 1.50%           | 0.459%        |
| 2         | 1.678       | 150           | 157         | 172          | rVB      | 81453          | 105526        | 1.46%           | 0.449%        |
| 3         | 2.270       | 331           | 341         | 353          | rVB      | 159655         | 237126        | 3.29%           | 1.009%        |
| 4         | 2.443       | 384           | 395         | 413          | rBV      | 15984          | 29227         | 0.41%           | 0.124%        |
| 5         | 3.048       | 579           | 583         | 596          | rBV2     | 675            | 1067          | 0.01%           | 0.005%        |
| 6         | 3.186       | 616           | 626         | 638          | rVB3     | 2984           | 6339          | 0.09%           | 0.027%        |
| 7         | 3.315       | 664           | 666         | 668          | rVB      | 277            | 148           | 0.00%           | 0.001%        |
| 8         | 3.331       | 668           | 671         | 676          | rVB3     | 187            | 158           | 0.00%           | 0.001%        |
| 9         | 3.360       | 676           | 680         | 683          | rBV      | 222            | 202           | 0.00%           | 0.001%        |
| 10        | 3.376       | 683           | 685         | 688          | rBV      | 339            | 183           | 0.00%           | 0.001%        |
| 11        | 3.640       | 763           | 767         | 769          | rBV      | 149            | 154           | 0.00%           | 0.001%        |
| 12        | 3.736       | 795           | 797         | 804          | rVB2     | 188            | 212           | 0.00%           | 0.001%        |
| 13        | 3.791       | 806           | 814         | 817          | rBV2     | 241            | 192           | 0.00%           | 0.001%        |
| 14        | 3.832       | 824           | 827         | 832          | rVB2     | 182            | 184           | 0.00%           | 0.001%        |
| 15        | 3.939       | 857           | 860         | 865          | rBV      | 124            | 133           | 0.00%           | 0.001%        |
| 16        | 4.000       | 876           | 879         | 881          | rBV      | 136            | 115           | 0.00%           | 0.000%        |
| 17        | 4.180       | 919           | 935         | 966          | rBV      | 78891          | 205898        | 2.86%           | 0.876%        |
| 18        | 4.382       | 986           | 998         | 1018         | rBV2     | 30184          | 70762         | 0.98%           | 0.301%        |
| 19        | 4.566       | 1051          | 1055        | 1060         | rVB2     | 329            | 275           | 0.00%           | 0.001%        |
| 20        | 4.649       | 1060          | 1081        | 1105         | rBV      | 137457         | 323075        | 4.48%           | 1.375%        |
| 21        | 4.884       | 1149          | 1154        | 1158         | rBV4     | 397            | 510           | 0.01%           | 0.002%        |
| 22        | 5.048       | 1201          | 1205        | 1210         | rBV      | 95             | 115           | 0.00%           | 0.000%        |
| 23        | 5.106       | 1219          | 1223        | 1226         | rBV      | 158            | 123           | 0.00%           | 0.001%        |
| 24        | 5.218       | 1251          | 1258        | 1260         | rBV      | 150            | 155           | 0.00%           | 0.001%        |
| 25        | 5.340       | 1271          | 1296        | 1305         | rBV2     | 266034         | 798916        | 11.08%          | 3.400%        |
| 26        | 5.514       | 1348          | 1350        | 1353         | rVB      | 404            | 218           | 0.00%           | 0.001%        |
| 27        | 5.582       | 1366          | 1371        | 1374         | rVB      | 187            | 132           | 0.00%           | 0.001%        |
| 28        | 5.604       | 1374          | 1378        | 1381         | rBV      | 227            | 204           | 0.00%           | 0.001%        |
| 29        | 5.720       | 1409          | 1414        | 1417         | rBV2     | 199            | 154           | 0.00%           | 0.001%        |
| 30        | 5.791       | 1428          | 1436        | 1438         | rBV2     | 207            | 238           | 0.00%           | 0.001%        |
| 31        | 5.887       | 1452          | 1466        | 1488         | rBV      | 262651         | 509146        | 7.06%           | 2.167%        |
| 32        | 6.032       | 1508          | 1511        | 1513         | rVV      | 253            | 128           | 0.00%           | 0.001%        |
| 33        | 6.051       | 1513          | 1517        | 1522         | rVB2     | 308            | 348           | 0.00%           | 0.001%        |
| 34        | 6.157       | 1545          | 1550        | 1551         | rBV      | 170            | 149           | 0.00%           | 0.001%        |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 6.176  | 1554 | 1556 | 1559 | rVB  | 203     | 119     | 0.00%   | 0.001%  |
| 36 | 6.205  | 1559 | 1565 | 1569 | rBV  | 173     | 210     | 0.00%   | 0.001%  |
| 37 | 6.237  | 1570 | 1575 | 1577 | rBV  | 190     | 138     | 0.00%   | 0.001%  |
| 38 | 6.334  | 1591 | 1605 | 1629 | rBV  | 188436  | 375766  | 5.21%   | 1.599%  |
| 39 | 6.421  | 1629 | 1632 | 1637 | rVB3 | 279     | 222     | 0.00%   | 0.001%  |
| 40 | 6.453  | 1637 | 1642 | 1644 | rBV  | 338     | 282     | 0.00%   | 0.001%  |
| 41 | 6.466  | 1644 | 1646 | 1650 | rVV  | 472     | 272     | 0.00%   | 0.001%  |
| 42 | 6.565  | 1671 | 1677 | 1681 | rBV2 | 224     | 211     | 0.00%   | 0.001%  |
| 43 | 6.636  | 1696 | 1699 | 1703 | rVV  | 167     | 118     | 0.00%   | 0.001%  |
| 44 | 6.836  | 1758 | 1761 | 1762 | rVV  | 257     | 156     | 0.00%   | 0.001%  |
| 45 | 6.858  | 1762 | 1768 | 1779 | rVB2 | 693     | 989     | 0.01%   | 0.004%  |
| 46 | 6.919  | 1784 | 1787 | 1791 | rVB  | 170     | 120     | 0.00%   | 0.001%  |
| 47 | 7.228  | 1872 | 1883 | 1902 | rBV  | 93150   | 163858  | 2.27%   | 0.697%  |
| 48 | 7.395  | 1925 | 1935 | 1944 | rVV6 | 2907    | 5207    | 0.07%   | 0.022%  |
| 49 | 7.569  | 1975 | 1989 | 2008 | rBV  | 330854  | 573873  | 7.96%   | 2.442%  |
| 50 | 7.762  | 2046 | 2049 | 2054 | rVB2 | 337     | 210     | 0.00%   | 0.001%  |
| 51 | 7.852  | 2066 | 2077 | 2097 | rBV  | 68611   | 114416  | 1.59%   | 0.487%  |
| 52 | 7.951  | 2105 | 2108 | 2110 | rBV  | 192     | 111     | 0.00%   | 0.000%  |
| 53 | 7.967  | 2110 | 2113 | 2118 | rVB2 | 227     | 188     | 0.00%   | 0.001%  |
| 54 | 8.089  | 2147 | 2151 | 2153 | rBV  | 263     | 188     | 0.00%   | 0.001%  |
| 55 | 8.183  | 2166 | 2180 | 2189 | rBV2 | 2254    | 4029    | 0.06%   | 0.017%  |
| 56 | 8.311  | 2209 | 2220 | 2246 | rBV  | 253518  | 430784  | 5.98%   | 1.833%  |
| 57 | 8.472  | 2266 | 2270 | 2273 | rBV4 | 399     | 290     | 0.00%   | 0.001%  |
| 58 | 8.617  | 2312 | 2315 | 2318 | rBV2 | 296     | 162     | 0.00%   | 0.001%  |
| 59 | 8.684  | 2333 | 2336 | 2337 | rVV  | 190     | 113     | 0.00%   | 0.000%  |
| 60 | 8.691  | 2337 | 2338 | 2346 | rVB  | 276     | 146     | 0.00%   | 0.001%  |
| 61 | 8.729  | 2347 | 2350 | 2353 | rVV  | 175     | 107     | 0.00%   | 0.000%  |
| 62 | 8.765  | 2357 | 2361 | 2366 | rVB2 | 198     | 152     | 0.00%   | 0.001%  |
| 63 | 9.122  | 2450 | 2472 | 2510 | rBV  | 4136152 | 7208291 | 100.00% | 30.673% |
| 64 | 9.334  | 2535 | 2538 | 2540 | rBV2 | 226     | 117     | 0.00%   | 0.000%  |
| 65 | 9.527  | 2593 | 2598 | 2601 | rBV  | 142     | 144     | 0.00%   | 0.001%  |
| 66 | 9.540  | 2601 | 2602 | 2606 | rVV  | 269     | 110     | 0.00%   | 0.000%  |
| 67 | 10.112 | 2776 | 2780 | 2782 | rVV  | 159     | 109     | 0.00%   | 0.000%  |
| 68 | 10.231 | 2814 | 2817 | 2822 | rVB  | 171     | 125     | 0.00%   | 0.001%  |
| 69 | 10.433 | 2866 | 2880 | 2898 | rBV  | 278354  | 435056  | 6.04%   | 1.851%  |
| 70 | 10.536 | 2909 | 2912 | 2916 | rVB2 | 279     | 171     | 0.00%   | 0.001%  |
| 71 | 10.610 | 2925 | 2935 | 2944 | rBV3 | 1780    | 2978    | 0.04%   | 0.013%  |

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Start Thrs: 0.2  
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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: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M  
Title : VOC Analysis

|     |        |      |      |      |      |         |         |        |         |
|-----|--------|------|------|------|------|---------|---------|--------|---------|
| 72  | 10.662 | 2944 | 2951 | 2962 | rVB3 | 6963    | 10117   | 0.14%  | 0.043%  |
| 73  | 10.778 | 2980 | 2987 | 2996 | rVB3 | 952     | 1532    | 0.02%  | 0.007%  |
| 74  | 10.909 | 3025 | 3028 | 3031 | rBV  | 275     | 192     | 0.00%  | 0.001%  |
| 75  | 11.417 | 3173 | 3186 | 3197 | rBV  | 984897  | 1494487 | 20.73% | 6.359%  |
| 76  | 11.507 | 3197 | 3214 | 3237 | rVB  | 4291806 | 7158134 | 99.30% | 30.460% |
| 77  | 11.713 | 3277 | 3278 | 3280 | rBV  | 306     | 148     | 0.00%  | 0.001%  |
| 78  | 11.749 | 3285 | 3289 | 3296 | rVB5 | 1247    | 1531    | 0.02%  | 0.007%  |
| 79  | 11.877 | 3311 | 3329 | 3351 | rBV2 | 1012797 | 2054987 | 28.51% | 8.745%  |
| 80  | 12.006 | 3367 | 3369 | 3373 | rVB2 | 282     | 129     | 0.00%  | 0.001%  |
| 81  | 12.118 | 3402 | 3404 | 3407 | rBV2 | 244     | 122     | 0.00%  | 0.001%  |
| 82  | 12.154 | 3412 | 3415 | 3417 | rBV3 | 309     | 219     | 0.00%  | 0.001%  |
| 83  | 12.353 | 3472 | 3477 | 3482 | rBV4 | 968     | 1050    | 0.01%  | 0.004%  |
| 84  | 12.414 | 3490 | 3496 | 3505 | rBV3 | 506     | 687     | 0.01%  | 0.003%  |
| 85  | 12.453 | 3505 | 3508 | 3510 | rBV2 | 257     | 168     | 0.00%  | 0.001%  |
| 86  | 12.466 | 3510 | 3512 | 3513 | rBV2 | 217     | 113     | 0.00%  | 0.000%  |
| 87  | 12.559 | 3539 | 3541 | 3544 | rVV2 | 318     | 177     | 0.00%  | 0.001%  |
| 88  | 12.578 | 3544 | 3547 | 3552 | rVB  | 349     | 321     | 0.00%  | 0.001%  |
| 89  | 12.639 | 3557 | 3566 | 3575 | rBV2 | 6781    | 10185   | 0.14%  | 0.043%  |
| 90  | 12.691 | 3579 | 3582 | 3583 | rBV  | 334     | 225     | 0.00%  | 0.001%  |
| 91  | 12.819 | 3611 | 3622 | 3635 | rVV3 | 9910    | 21481   | 0.30%  | 0.091%  |
| 92  | 12.890 | 3635 | 3644 | 3654 | rVV  | 16800   | 25153   | 0.35%  | 0.107%  |
| 93  | 12.993 | 3668 | 3676 | 3683 | rVB5 | 791     | 1138    | 0.02%  | 0.005%  |
| 94  | 13.076 | 3699 | 3702 | 3703 | rBV  | 312     | 146     | 0.00%  | 0.001%  |
| 95  | 13.237 | 3746 | 3752 | 3758 | rVB5 | 1011    | 1262    | 0.02%  | 0.005%  |
| 96  | 13.330 | 3779 | 3781 | 3784 | rBV2 | 217     | 148     | 0.00%  | 0.001%  |
| 97  | 13.456 | 3817 | 3820 | 3823 | rBV2 | 494     | 434     | 0.01%  | 0.002%  |
| 98  | 13.504 | 3823 | 3835 | 3872 | rVV  | 562865  | 896914  | 12.44% | 3.817%  |
| 99  | 13.990 | 3975 | 3986 | 4004 | rBV  | 59999   | 96513   | 1.34%  | 0.411%  |
| 100 | 15.662 | 4499 | 4506 | 4515 | rBV7 | 2140    | 3610    | 0.05%  | 0.015%  |

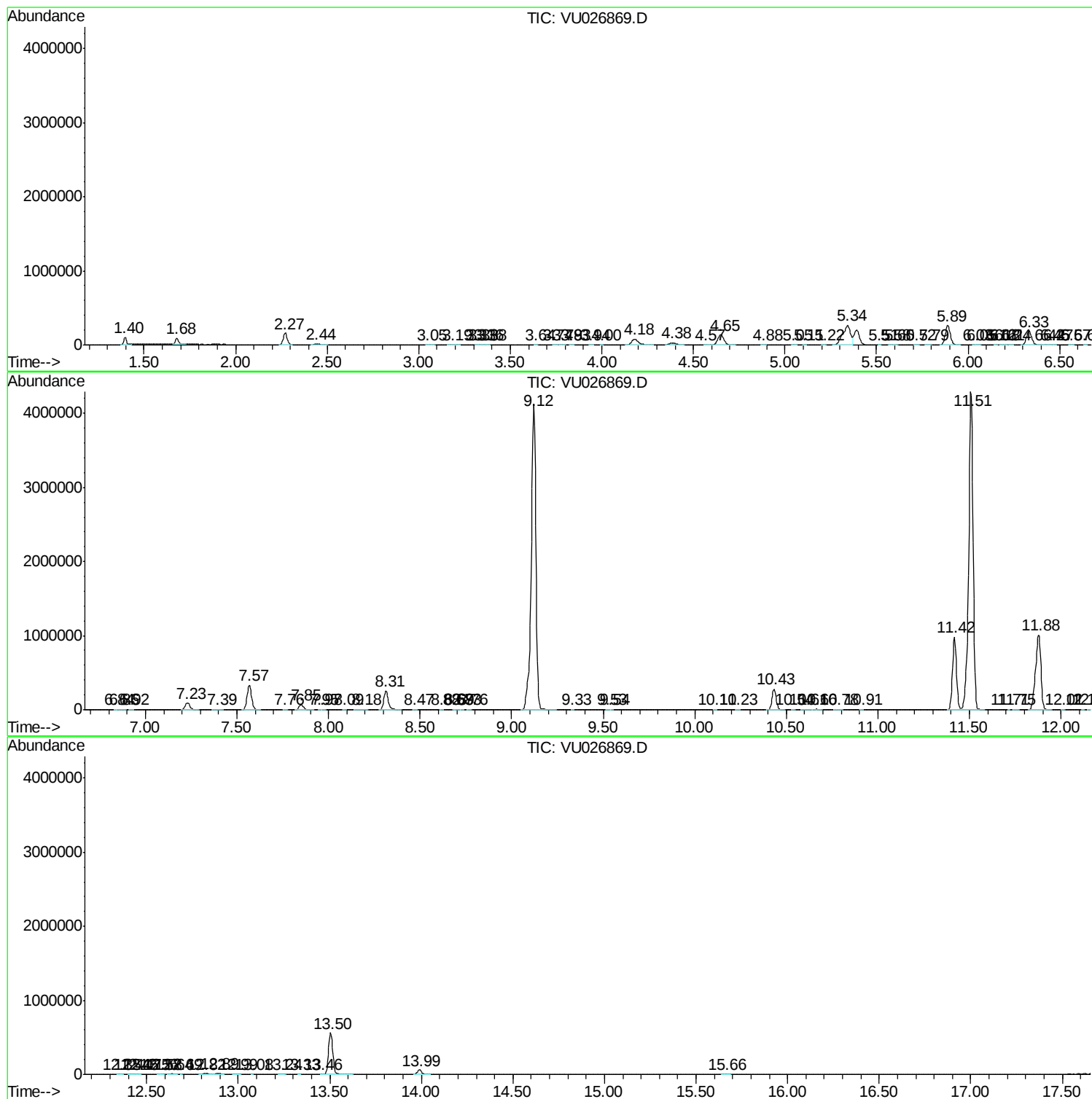
Sum of corrected areas: 23500178

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M  
Quant Title : VOC Analysis

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



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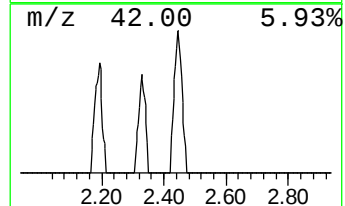
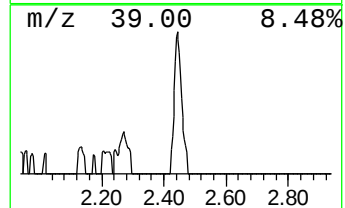
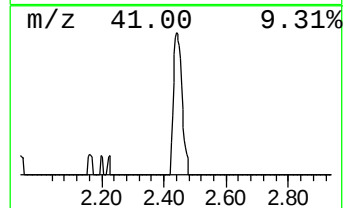
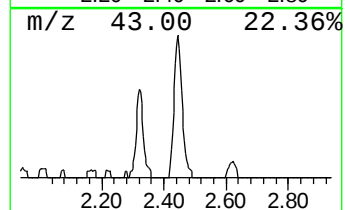
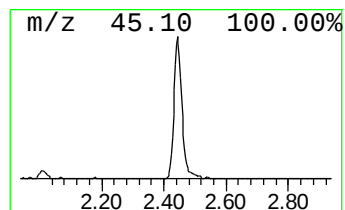
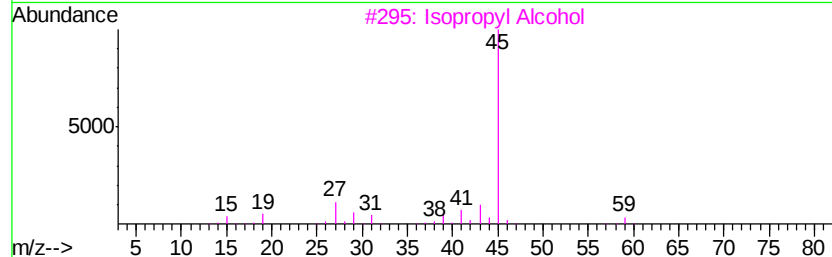
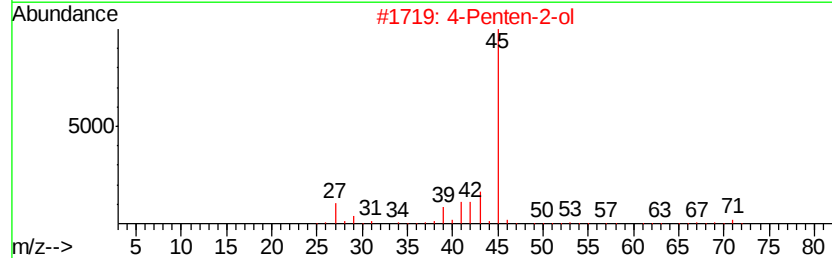
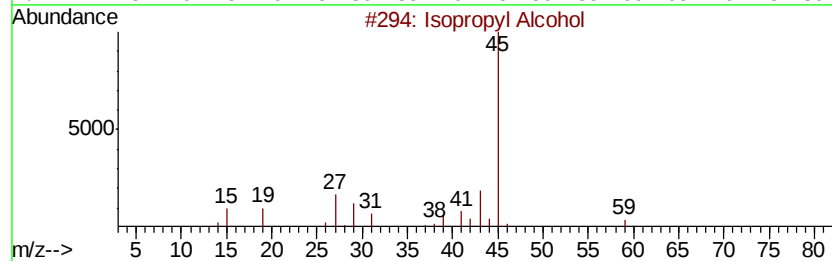
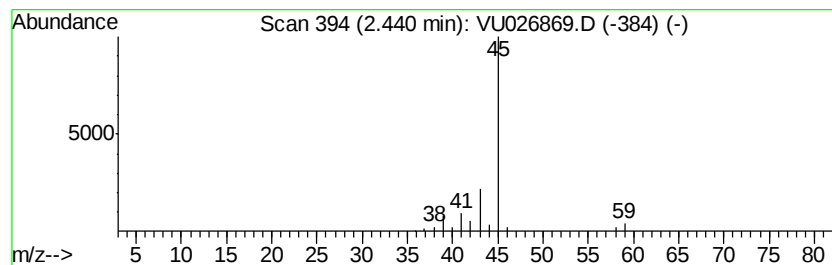
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 1 Isopropyl Alcohol Concentration Rank 3

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.44 | 2.87 ug/L | 29227 | 1,4-Difluorobenzene | 5.89 |

| Hit# | of | 5 | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|---|-------------------|----|---------|-------------|------|
| 1    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 74   |
| 2    |    |   | 4-Penten-2-ol     | 86 | C5H10O  | 000625-31-0 | 9    |
| 3    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 9    |
| 4    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 9    |
| 5    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 9    |



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| TIC Top Hit name  | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|-------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                   |      |         |       |          | #                     | RT   | Resp   | Conc |
| Isopropyl Alcohol | 2.44 | 2.9     | ug/L  | 29227    | 1                     | 5.89 | 509146 | 50.0 |