

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071219\  
 Data File : VU033240.D  
 Acq On : 12 Jul 2019 22:22  
 Operator : JC/SP  
 Sample : K3785-05  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0XL3

## 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\SOMULM071219WMA.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         | 1.389       | 86            | 93          | 107          | rBV      | 186291         | 193104        | 16.40%          | 1.927%        |
| 2         | 1.669       | 172           | 180         | 195          | rBV      | 147188         | 191959        | 16.31%          | 1.915%        |
| 3         | 1.875       | 237           | 244         | 257          | rVB      | 52857          | 72342         | 6.14%           | 0.722%        |
| 4         | 2.257       | 353           | 363         | 375          | rVB      | 278593         | 426513        | 36.23%          | 4.255%        |
| 5         | 2.428       | 406           | 416         | 436          | rBV      | 28299          | 51923         | 4.41%           | 0.518%        |
| 6         | 2.592       | 465           | 467         | 470          | rVB3     | 325            | 181           | 0.02%           | 0.002%        |
| 7         | 2.666       | 488           | 490         | 491          | rVB      | 253            | 84            | 0.01%           | 0.001%        |
| 8         | 2.678       | 491           | 494         | 500          | rBV4     | 671            | 679           | 0.06%           | 0.007%        |
| 9         | 2.727       | 504           | 509         | 513          | rBV4     | 370            | 417           | 0.04%           | 0.004%        |
| 10        | 2.794       | 528           | 530         | 531          | rBV2     | 331            | 131           | 0.01%           | 0.001%        |
| 11        | 2.907       | 561           | 565         | 566          | rVB2     | 223            | 122           | 0.01%           | 0.001%        |
| 12        | 2.926       | 566           | 571         | 572          | rBV      | 266            | 194           | 0.02%           | 0.002%        |
| 13        | 3.096       | 620           | 624         | 625          | rBV2     | 352            | 272           | 0.02%           | 0.003%        |
| 14        | 3.132       | 632           | 635         | 641          | rVB2     | 278            | 287           | 0.02%           | 0.003%        |
| 15        | 3.167       | 641           | 646         | 648          | rBV      | 373            | 267           | 0.02%           | 0.003%        |
| 16        | 3.302       | 686           | 688         | 691          | rVB2     | 179            | 56            | 0.00%           | 0.001%        |
| 17        | 3.341       | 697           | 700         | 701          | rBV      | 168            | 115           | 0.01%           | 0.001%        |
| 18        | 3.431       | 725           | 728         | 731          | rBV2     | 234            | 171           | 0.01%           | 0.002%        |
| 19        | 3.482       | 742           | 744         | 747          | rBV3     | 224            | 126           | 0.01%           | 0.001%        |
| 20        | 3.759       | 827           | 830         | 832          | rBV2     | 210            | 123           | 0.01%           | 0.001%        |
| 21        | 3.826       | 846           | 851         | 854          | rBV      | 245            | 182           | 0.02%           | 0.002%        |
| 22        | 3.849       | 855           | 858         | 860          | rBV2     | 155            | 100           | 0.01%           | 0.001%        |
| 23        | 3.945       | 884           | 888         | 892          | rVB2     | 301            | 234           | 0.02%           | 0.002%        |
| 24        | 4.032       | 913           | 915         | 921          | rVB2     | 240            | 175           | 0.01%           | 0.002%        |
| 25        | 4.087       | 929           | 932         | 937          | rBV2     | 274            | 284           | 0.02%           | 0.003%        |
| 26        | 4.148       | 937           | 951         | 986          | rBV      | 102749         | 293188        | 24.90%          | 2.925%        |
| 27        | 4.550       | 1074          | 1076        | 1077         | rBV      | 222            | 82            | 0.01%           | 0.001%        |
| 28        | 4.620       | 1081          | 1098        | 1125         | rVV      | 194496         | 469439        | 39.87%          | 4.684%        |
| 29        | 4.746       | 1135          | 1137        | 1138         | rBV      | 394            | 168           | 0.01%           | 0.002%        |
| 30        | 4.807       | 1152          | 1156        | 1159         | rBV4     | 362            | 311           | 0.03%           | 0.003%        |
| 31        | 4.846       | 1166          | 1168        | 1169         | rBV4     | 239            | 119           | 0.01%           | 0.001%        |
| 32        | 4.862       | 1170          | 1173        | 1178         | rVB2     | 822            | 608           | 0.05%           | 0.006%        |
| 33        | 4.913       | 1185          | 1189        | 1191         | rVB2     | 271            | 158           | 0.01%           | 0.002%        |
| 34        | 4.948       | 1194          | 1200        | 1202         | rBV3     | 328            | 245           | 0.02%           | 0.002%        |

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |        |         |         |         |
|----|-------|------|------|------|------|--------|---------|---------|---------|
| 35 | 4.964 | 1202 | 1205 | 1207 | rBV2 | 310    | 185     | 0.02%   | 0.002%  |
| 36 | 5.042 | 1225 | 1229 | 1231 | rVB2 | 333    | 187     | 0.02%   | 0.002%  |
| 37 | 5.061 | 1231 | 1235 | 1236 | rBV  | 189    | 114     | 0.01%   | 0.001%  |
| 38 | 5.103 | 1242 | 1248 | 1249 | rBV2 | 713    | 666     | 0.06%   | 0.007%  |
| 39 | 5.167 | 1263 | 1268 | 1272 | rBV2 | 298    | 264     | 0.02%   | 0.003%  |
| 40 | 5.218 | 1283 | 1284 | 1290 | rVB3 | 210    | 183     | 0.02%   | 0.002%  |
| 41 | 5.315 | 1290 | 1314 | 1334 | rBV2 | 400999 | 1177299 | 100.00% | 11.746% |
| 42 | 5.640 | 1413 | 1415 | 1422 | rVB4 | 439    | 386     | 0.03%   | 0.004%  |
| 43 | 5.746 | 1444 | 1448 | 1452 | rBV4 | 471    | 438     | 0.04%   | 0.004%  |
| 44 | 5.794 | 1460 | 1463 | 1464 | rBV2 | 185    | 112     | 0.01%   | 0.001%  |
| 45 | 5.865 | 1471 | 1485 | 1510 | rBV  | 368383 | 718725  | 61.05%  | 7.171%  |
| 46 | 6.164 | 1565 | 1578 | 1609 | rBV  | 131756 | 257833  | 21.90%  | 2.572%  |
| 47 | 6.308 | 1609 | 1623 | 1649 | rBV  | 266347 | 531946  | 45.18%  | 5.307%  |
| 48 | 6.476 | 1674 | 1675 | 1677 | rBV  | 176    | 77      | 0.01%   | 0.001%  |
| 49 | 6.489 | 1677 | 1679 | 1685 | rVB3 | 682    | 553     | 0.05%   | 0.006%  |
| 50 | 6.517 | 1685 | 1688 | 1691 | rBV  | 437    | 275     | 0.02%   | 0.003%  |
| 51 | 6.579 | 1705 | 1707 | 1711 | rBV2 | 346    | 245     | 0.02%   | 0.002%  |
| 52 | 6.617 | 1715 | 1719 | 1720 | rBV  | 266    | 159     | 0.01%   | 0.002%  |
| 53 | 6.710 | 1745 | 1748 | 1750 | rBV  | 222    | 114     | 0.01%   | 0.001%  |
| 54 | 6.736 | 1754 | 1756 | 1758 | rBV  | 166    | 61      | 0.01%   | 0.001%  |
| 55 | 6.784 | 1768 | 1771 | 1773 | rBV  | 284    | 189     | 0.02%   | 0.002%  |
| 56 | 6.816 | 1777 | 1781 | 1783 | rBV2 | 338    | 209     | 0.02%   | 0.002%  |
| 57 | 6.842 | 1787 | 1789 | 1790 | rBV2 | 193    | 104     | 0.01%   | 0.001%  |
| 58 | 6.878 | 1796 | 1800 | 1803 | rBV2 | 384    | 304     | 0.03%   | 0.003%  |
| 59 | 6.935 | 1815 | 1818 | 1821 | rBV  | 127    | 97      | 0.01%   | 0.001%  |
| 60 | 7.016 | 1840 | 1843 | 1846 | rBV  | 121    | 83      | 0.01%   | 0.001%  |
| 61 | 7.058 | 1854 | 1856 | 1859 | rBV2 | 210    | 109     | 0.01%   | 0.001%  |
| 62 | 7.096 | 1865 | 1868 | 1871 | rVB2 | 249    | 150     | 0.01%   | 0.001%  |
| 63 | 7.119 | 1872 | 1875 | 1877 | rBV2 | 250    | 126     | 0.01%   | 0.001%  |
| 64 | 7.135 | 1877 | 1880 | 1883 | rBV  | 268    | 180     | 0.02%   | 0.002%  |
| 65 | 7.209 | 1891 | 1903 | 1921 | rBV  | 144959 | 259875  | 22.07%  | 2.593%  |
| 66 | 7.437 | 1972 | 1974 | 1978 | rBV3 | 445    | 237     | 0.02%   | 0.002%  |
| 67 | 7.479 | 1983 | 1987 | 1990 | rVB3 | 314    | 288     | 0.02%   | 0.003%  |
| 68 | 7.546 | 1990 | 2008 | 2026 | rBV  | 539637 | 934291  | 79.36%  | 9.322%  |
| 69 | 7.829 | 2085 | 2096 | 2121 | rBV  | 103416 | 182922  | 15.54%  | 1.825%  |
| 70 | 8.099 | 2178 | 2180 | 2183 | rVB2 | 299    | 169     | 0.01%   | 0.002%  |
| 71 | 8.122 | 2183 | 2187 | 2192 | rBV2 | 307    | 444     | 0.04%   | 0.004%  |

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 Start Thrs: 0.2  
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 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\SOMULM071219WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 8.160  | 2193 | 2199 | 2202 | rBV3 | 931    | 1134   | 0.10%  | 0.011% |
| 73  | 8.209  | 2202 | 2214 | 2229 | rVV  | 272365 | 459604 | 39.04% | 4.586% |
| 74  | 8.292  | 2230 | 2240 | 2280 | rVV  | 338135 | 604449 | 51.34% | 6.031% |
| 75  | 8.588  | 2330 | 2332 | 2334 | rBV2 | 274    | 109    | 0.01%  | 0.001% |
| 76  | 8.730  | 2374 | 2376 | 2379 | rBV2 | 186    | 129    | 0.01%  | 0.001% |
| 77  | 8.839  | 2405 | 2410 | 2413 | rBV3 | 261    | 243    | 0.02%  | 0.002% |
| 78  | 9.000  | 2457 | 2460 | 2464 | rVB2 | 274    | 190    | 0.02%  | 0.002% |
| 79  | 9.025  | 2464 | 2468 | 2470 | rBV2 | 414    | 373    | 0.03%  | 0.004% |
| 80  | 9.070  | 2470 | 2482 | 2500 | rBV  | 547010 | 899747 | 76.42% | 8.977% |
| 81  | 9.228  | 2529 | 2531 | 2533 | rBV3 | 527    | 283    | 0.02%  | 0.003% |
| 82  | 9.286  | 2544 | 2549 | 2550 | rBV  | 287    | 237    | 0.02%  | 0.002% |
| 83  | 9.299  | 2551 | 2553 | 2556 | rVV2 | 366    | 232    | 0.02%  | 0.002% |
| 84  | 9.350  | 2565 | 2569 | 2570 | rBV2 | 343    | 208    | 0.02%  | 0.002% |
| 85  | 9.418  | 2587 | 2590 | 2593 | rBV  | 509    | 309    | 0.03%  | 0.003% |
| 86  | 9.636  | 2656 | 2658 | 2661 | rBV2 | 229    | 126    | 0.01%  | 0.001% |
| 87  | 9.794  | 2704 | 2707 | 2710 | rBV  | 376    | 312    | 0.03%  | 0.003% |
| 88  | 9.919  | 2744 | 2746 | 2750 | rBV2 | 237    | 139    | 0.01%  | 0.001% |
| 89  | 10.054 | 2781 | 2788 | 2790 | rBV2 | 308    | 278    | 0.02%  | 0.003% |
| 90  | 10.167 | 2819 | 2823 | 2824 | rBV  | 214    | 158    | 0.01%  | 0.002% |
| 91  | 10.347 | 2876 | 2879 | 2880 | rBV  | 256    | 136    | 0.01%  | 0.001% |
| 92  | 10.414 | 2888 | 2900 | 2919 | rBV  | 391529 | 623361 | 52.95% | 6.219% |
| 93  | 10.514 | 2929 | 2931 | 2932 | rBV  | 315    | 116    | 0.01%  | 0.001% |
| 94  | 10.730 | 2995 | 2998 | 3001 | rVB  | 392    | 231    | 0.02%  | 0.002% |
| 95  | 10.829 | 3027 | 3029 | 3034 | rBV  | 254    | 200    | 0.02%  | 0.002% |
| 96  | 10.916 | 3054 | 3056 | 3058 | rBV  | 174    | 63     | 0.01%  | 0.001% |
| 97  | 11.109 | 3113 | 3116 | 3119 | rBV3 | 311    | 245    | 0.02%  | 0.002% |
| 98  | 11.466 | 3215 | 3227 | 3250 | rBV  | 518219 | 823314 | 69.93% | 8.214% |
| 99  | 11.717 | 3302 | 3305 | 3307 | rBV3 | 426    | 267    | 0.02%  | 0.003% |
| 100 | 11.845 | 3332 | 3345 | 3371 | rBV  | 514754 | 832786 | 70.74% | 8.309% |

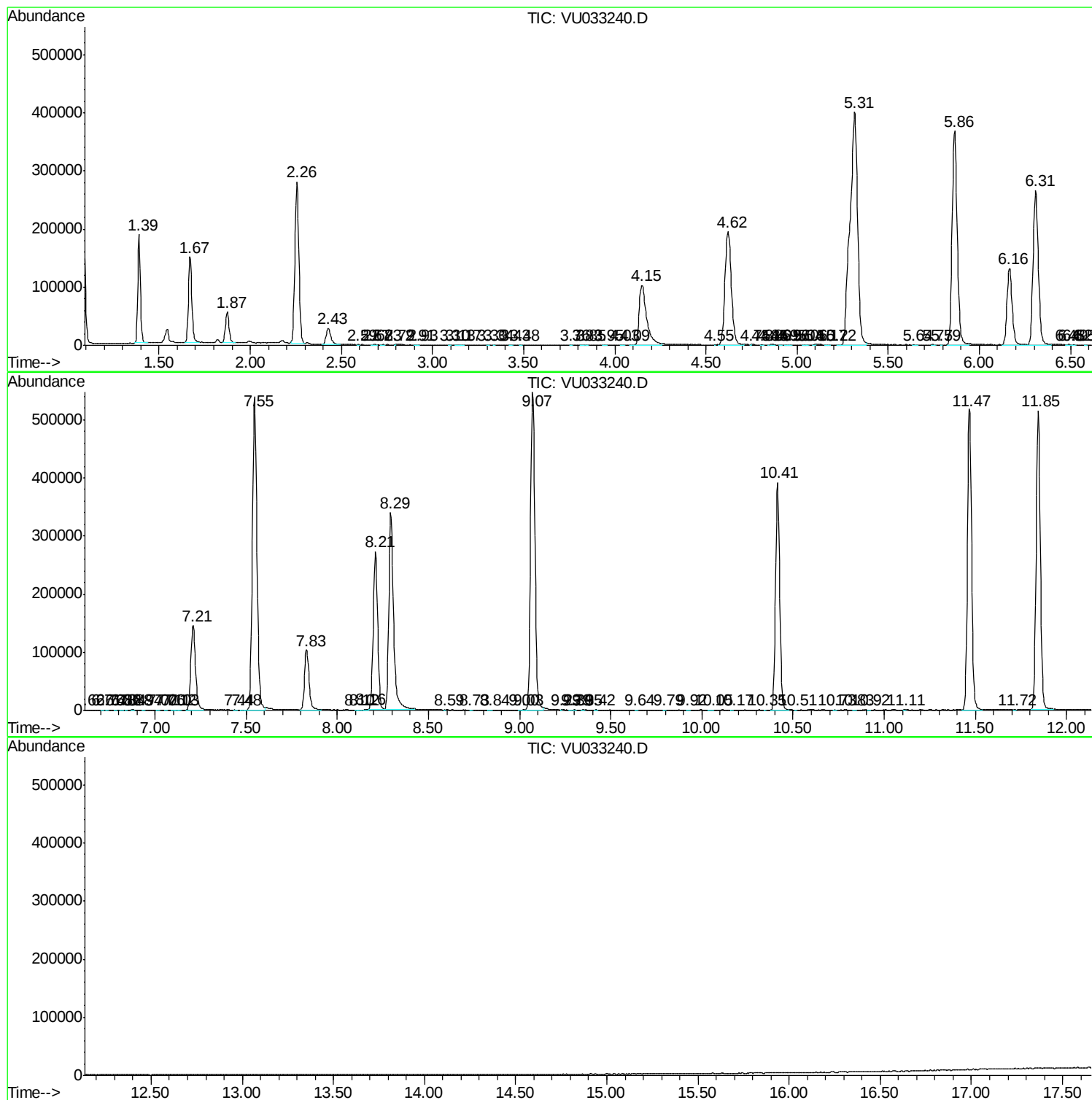
Sum of corrected areas: 10022937

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU071219\  
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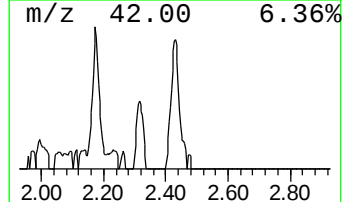
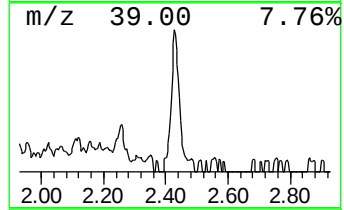
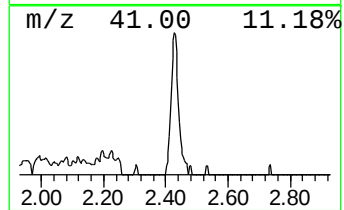
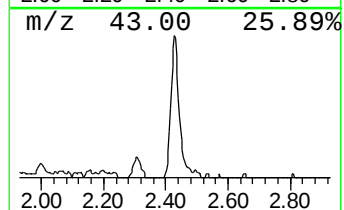
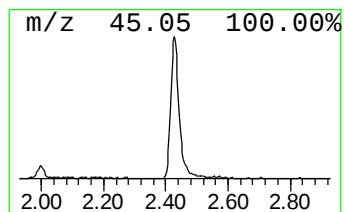
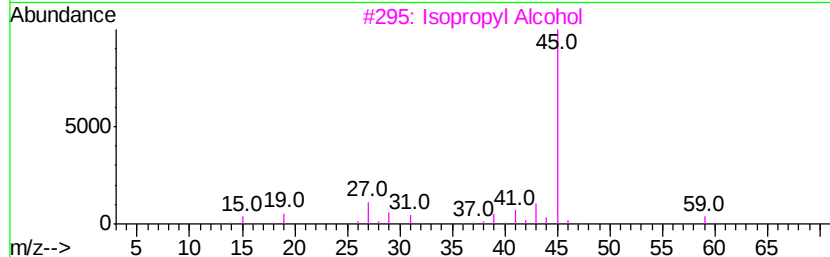
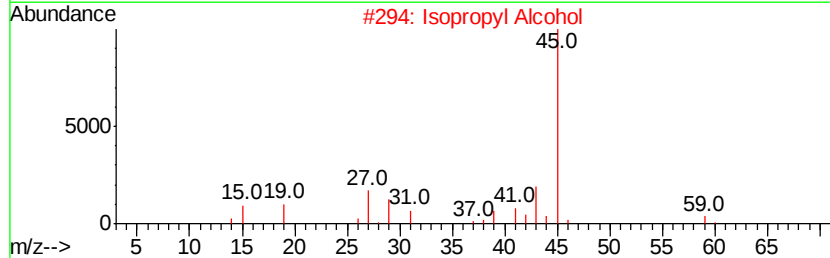
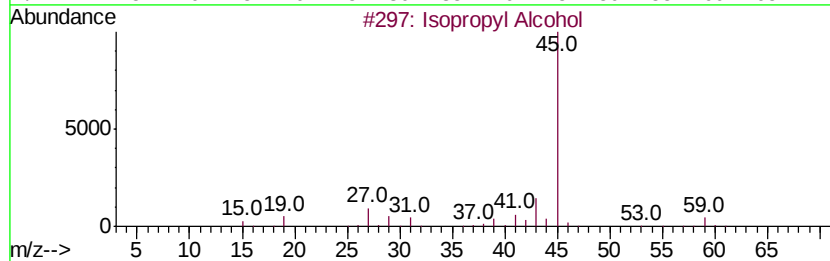
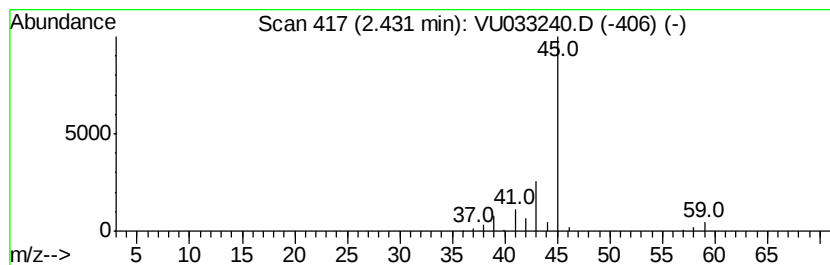
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
Quant Title : VOC Analysis

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

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Peak Number 1 Isopropyl Alcohol Concentration Rank 2

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.43 | 3.61 ug/L | 51923 | 1,4-Difluorobenzene | 5.86 |

| Hit# | of | 5 | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|---|-------------------|----|---------|-------------|------|
| 1    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 74   |
| 2    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 43   |
| 3    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 9    |
| 4    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 9    |
| 5    |    |   | Ethylamine        | 45 | C2H7N   | 000075-04-7 | 7    |



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| TIC Top Hit name  | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|-------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                   |      |         |       |          | #                     | RT   | Resp   | Conc |
| Isopropyl Alcohol | 2.43 | 3.6     | ug/L  | 51923    | 1                     | 5.86 | 718725 | 50.0 |