

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041119\  
 Data File : VU031106.D  
 Acq On : 12 Apr 2019 05:58  
 Operator : JC/SP  
 Sample : K2353-05  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 98 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ETJ61

## 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\SOMULM040519WMA.M  
 Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 1.180    | 23         | 28       | 34        | rVB   | 22292       | 20201      | 1.06%        | 0.134%     |
| 2      | 1.396    | 88         | 95       | 107       | rBV   | 255739      | 263604     | 13.85%       | 1.753%     |
| 3      | 1.676    | 175        | 182      | 200       | rVB   | 198687      | 261398     | 13.74%       | 1.738%     |
| 4      | 2.267    | 356        | 366      | 377       | rBV   | 393300      | 588362     | 30.92%       | 3.913%     |
| 5      | 2.438    | 408        | 419      | 438       | rBV   | 62861       | 117131     | 6.16%        | 0.779%     |
| 6      | 2.614    | 470        | 474      | 477       | rBV4  | 976         | 826        | 0.04%        | 0.005%     |
| 7      | 2.701    | 499        | 501      | 503       | rVB2  | 1126        | 516        | 0.03%        | 0.003%     |
| 8      | 2.720    | 503        | 507      | 511       | rVB4  | 829         | 719        | 0.04%        | 0.005%     |
| 9      | 2.791    | 517        | 529      | 531       | rBV5  | 3867        | 6411       | 0.34%        | 0.043%     |
| 10     | 3.032    | 602        | 604      | 611       | rVB3  | 1027        | 1026       | 0.05%        | 0.007%     |
| 11     | 3.074    | 611        | 617      | 618       | rBV   | 958         | 739        | 0.04%        | 0.005%     |
| 12     | 3.180    | 647        | 650      | 656       | rVB4  | 1491        | 1273       | 0.07%        | 0.008%     |
| 13     | 3.341    | 696        | 700      | 703       | rBV2  | 908         | 849        | 0.04%        | 0.006%     |
| 14     | 3.376    | 708        | 711      | 715       | rVB4  | 922         | 794        | 0.04%        | 0.005%     |
| 15     | 3.412    | 717        | 722      | 725       | rBV2  | 776         | 731        | 0.04%        | 0.005%     |
| 16     | 3.601    | 779        | 781      | 786       | rVB3  | 1006        | 896        | 0.05%        | 0.006%     |
| 17     | 3.724    | 814        | 819      | 824       | rVB2  | 840         | 687        | 0.04%        | 0.005%     |
| 18     | 3.814    | 841        | 847      | 849       | rBV2  | 611         | 710        | 0.04%        | 0.005%     |
| 19     | 4.032    | 907        | 915      | 916       | rBV5  | 994         | 1132       | 0.06%        | 0.008%     |
| 20     | 4.106    | 934        | 938      | 944       | rBV3  | 686         | 789        | 0.04%        | 0.005%     |
| 21     | 4.171    | 944        | 958      | 987       | rBV   | 200025      | 555673     | 29.21%       | 3.695%     |
| 22     | 4.437    | 1039       | 1041     | 1045      | rVB3  | 1137        | 687        | 0.04%        | 0.005%     |
| 23     | 4.640    | 1087       | 1104     | 1126      | rBV   | 312769      | 755230     | 39.69%       | 5.023%     |
| 24     | 4.855    | 1168       | 1171     | 1173      | rBV3  | 829         | 649        | 0.03%        | 0.004%     |
| 25     | 4.920    | 1187       | 1191     | 1197      | rVB6  | 1152        | 953        | 0.05%        | 0.006%     |
| 26     | 4.987    | 1208       | 1212     | 1214      | rBV3  | 963         | 657        | 0.03%        | 0.004%     |
| 27     | 5.106    | 1247       | 1249     | 1256      | rVB4  | 717         | 594        | 0.03%        | 0.004%     |
| 28     | 5.148    | 1258       | 1262     | 1267      | rVB4  | 768         | 875        | 0.05%        | 0.006%     |
| 29     | 5.254    | 1292       | 1295     | 1297      | rBV   | 748         | 507        | 0.03%        | 0.003%     |
| 30     | 5.335    | 1297       | 1320     | 1352      | rBV2  | 627902      | 1902608    | 100.00%      | 12.653%    |
| 31     | 5.630    | 1407       | 1412     | 1415      | rBV4  | 1074        | 965        | 0.05%        | 0.006%     |
| 32     | 5.643    | 1415       | 1416     | 1420      | rVV3  | 1039        | 681        | 0.04%        | 0.005%     |
| 33     | 5.666    | 1421       | 1423     | 1429      | rVV6  | 817         | 819        | 0.04%        | 0.005%     |
| 34     | 5.707    | 1432       | 1436     | 1444      | rVB8  | 882         | 1013       | 0.05%        | 0.007%     |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |         |        |         |
|----|--------|------|------|------|------|--------|---------|--------|---------|
| 35 | 5.804  | 1461 | 1466 | 1469 | rBV3 | 827    | 800     | 0.04%  | 0.005%  |
| 36 | 5.881  | 1477 | 1490 | 1525 | rBV  | 620690 | 1252584 | 65.84% | 8.330%  |
| 37 | 6.097  | 1553 | 1557 | 1559 | rBV3 | 1186   | 926     | 0.05%  | 0.006%  |
| 38 | 6.183  | 1568 | 1584 | 1595 | rBV3 | 6904   | 16705   | 0.88%  | 0.111%  |
| 39 | 6.273  | 1608 | 1612 | 1614 | rBV2 | 782    | 665     | 0.03%  | 0.004%  |
| 40 | 6.325  | 1614 | 1628 | 1655 | rVV  | 428054 | 874111  | 45.94% | 5.813%  |
| 41 | 6.601  | 1711 | 1714 | 1718 | rVB4 | 908    | 573     | 0.03%  | 0.004%  |
| 42 | 6.682  | 1735 | 1739 | 1741 | rBV3 | 861    | 542     | 0.03%  | 0.004%  |
| 43 | 6.752  | 1755 | 1761 | 1766 | rBV3 | 1083   | 1558    | 0.08%  | 0.010%  |
| 44 | 6.801  | 1770 | 1776 | 1779 | rBV2 | 538    | 524     | 0.03%  | 0.003%  |
| 45 | 6.836  | 1782 | 1787 | 1789 | rBV3 | 799    | 793     | 0.04%  | 0.005%  |
| 46 | 6.852  | 1790 | 1792 | 1798 | rVB4 | 683    | 608     | 0.03%  | 0.004%  |
| 47 | 6.881  | 1798 | 1801 | 1805 | rBV2 | 1180   | 1004    | 0.05%  | 0.007%  |
| 48 | 7.061  | 1852 | 1857 | 1862 | rVV3 | 579    | 653     | 0.03%  | 0.004%  |
| 49 | 7.087  | 1862 | 1865 | 1868 | rVB2 | 819    | 490     | 0.03%  | 0.003%  |
| 50 | 7.225  | 1896 | 1908 | 1929 | rBV2 | 215554 | 400901  | 21.07% | 2.666%  |
| 51 | 7.383  | 1952 | 1957 | 1962 | rBV6 | 1987   | 2226    | 0.12%  | 0.015%  |
| 52 | 7.405  | 1962 | 1964 | 1968 | rVB4 | 1570   | 804     | 0.04%  | 0.005%  |
| 53 | 7.563  | 1997 | 2013 | 2032 | rBV  | 770872 | 1368647 | 71.94% | 9.102%  |
| 54 | 7.849  | 2091 | 2102 | 2126 | rVV  | 145733 | 270946  | 14.24% | 1.802%  |
| 55 | 8.170  | 2189 | 2202 | 2212 | rBV6 | 3769   | 7988    | 0.42%  | 0.053%  |
| 56 | 8.222  | 2215 | 2218 | 2222 | rBV3 | 704    | 635     | 0.03%  | 0.004%  |
| 57 | 8.309  | 2234 | 2245 | 2281 | rBV  | 560428 | 1159791 | 60.96% | 7.713%  |
| 58 | 8.717  | 2369 | 2372 | 2378 | rBV4 | 980    | 947     | 0.05%  | 0.006%  |
| 59 | 8.746  | 2378 | 2381 | 2384 | rVB2 | 1019   | 548     | 0.03%  | 0.004%  |
| 60 | 8.765  | 2384 | 2387 | 2391 | rBV3 | 742    | 723     | 0.04%  | 0.005%  |
| 61 | 8.820  | 2398 | 2404 | 2408 | rBV3 | 921    | 1153    | 0.06%  | 0.008%  |
| 62 | 8.932  | 2436 | 2439 | 2445 | rBV3 | 1010   | 1033    | 0.05%  | 0.007%  |
| 63 | 9.022  | 2463 | 2467 | 2471 | rBV3 | 770    | 767     | 0.04%  | 0.005%  |
| 64 | 9.087  | 2474 | 2487 | 2508 | rBV  | 914655 | 1569254 | 82.48% | 10.436% |
| 65 | 9.260  | 2538 | 2541 | 2546 | rVB4 | 1462   | 1215    | 0.06%  | 0.008%  |
| 66 | 9.318  | 2555 | 2559 | 2563 | rVB5 | 848    | 661     | 0.03%  | 0.004%  |
| 67 | 9.344  | 2563 | 2567 | 2570 | rBV6 | 876    | 697     | 0.04%  | 0.005%  |
| 68 | 9.447  | 2592 | 2599 | 2603 | rBV5 | 1370   | 1986    | 0.10%  | 0.013%  |
| 69 | 9.804  | 2708 | 2710 | 2715 | rVB3 | 839    | 551     | 0.03%  | 0.004%  |
| 70 | 9.833  | 2715 | 2719 | 2727 | rVB4 | 677    | 1006    | 0.05%  | 0.007%  |
| 71 | 10.125 | 2807 | 2810 | 2814 | rVB2 | 1085   | 804     | 0.04%  | 0.005%  |

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Filtering: 5  
 Min Area: 0 % of largest Peak  
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 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 10.286 | 2857 | 2860 | 2862 | rBV2 | 771    | 519     | 0.03%  | 0.003% |
| 73  | 10.428 | 2890 | 2904 | 2928 | rBV  | 616526 | 1002602 | 52.70% | 6.668% |
| 74  | 10.604 | 2954 | 2959 | 2960 | rBV4 | 1185   | 1049    | 0.06%  | 0.007% |
| 75  | 10.643 | 2968 | 2971 | 2979 | rVB4 | 1067   | 1062    | 0.06%  | 0.007% |
| 76  | 10.749 | 3001 | 3004 | 3009 | rBV4 | 565    | 496     | 0.03%  | 0.003% |
| 77  | 11.058 | 3096 | 3100 | 3101 | rBV2 | 1266   | 726     | 0.04%  | 0.005% |
| 78  | 11.145 | 3120 | 3127 | 3131 | rBV3 | 755    | 928     | 0.05%  | 0.006% |
| 79  | 11.228 | 3149 | 3153 | 3157 | rVV3 | 716    | 673     | 0.04%  | 0.004% |
| 80  | 11.276 | 3166 | 3168 | 3172 | rBV2 | 521    | 491     | 0.03%  | 0.003% |
| 81  | 11.479 | 3219 | 3231 | 3259 | rBV  | 808988 | 1337556 | 70.30% | 8.895% |
| 82  | 11.855 | 3336 | 3348 | 3369 | rBV  | 726414 | 1239581 | 65.15% | 8.244% |
| 83  | 12.254 | 3470 | 3472 | 3475 | rBV3 | 941    | 617     | 0.03%  | 0.004% |
| 84  | 12.286 | 3479 | 3482 | 3485 | rBV3 | 987    | 617     | 0.03%  | 0.004% |
| 85  | 12.399 | 3513 | 3517 | 3520 | rBV4 | 1244   | 807     | 0.04%  | 0.005% |
| 86  | 12.469 | 3534 | 3539 | 3541 | rBV4 | 1431   | 1317    | 0.07%  | 0.009% |
| 87  | 12.540 | 3559 | 3561 | 3564 | rBV2 | 808    | 553     | 0.03%  | 0.004% |
| 88  | 12.630 | 3586 | 3589 | 3591 | rBV2 | 917    | 576     | 0.03%  | 0.004% |
| 89  | 12.772 | 3629 | 3633 | 3635 | rBV2 | 803    | 662     | 0.03%  | 0.004% |
| 90  | 12.878 | 3663 | 3666 | 3669 | rBV3 | 823    | 561     | 0.03%  | 0.004% |
| 91  | 12.984 | 3695 | 3699 | 3703 | rBV3 | 887    | 1031    | 0.05%  | 0.007% |
| 92  | 13.334 | 3802 | 3808 | 3809 | rBV2 | 763    | 769     | 0.04%  | 0.005% |
| 93  | 13.678 | 3911 | 3915 | 3917 | rBV2 | 977    | 778     | 0.04%  | 0.005% |
| 94  | 13.961 | 4000 | 4003 | 4005 | rBV3 | 892    | 536     | 0.03%  | 0.004% |
| 95  | 14.514 | 4173 | 4175 | 4178 | rBV  | 1132   | 695     | 0.04%  | 0.005% |
| 96  | 14.636 | 4210 | 4213 | 4215 | rBV2 | 1118   | 774     | 0.04%  | 0.005% |
| 97  | 14.939 | 4304 | 4307 | 4313 | rBV5 | 1441   | 1733    | 0.09%  | 0.012% |
| 98  | 14.974 | 4316 | 4318 | 4321 | rBV2 | 1035   | 696     | 0.04%  | 0.005% |
| 99  | 15.180 | 4379 | 4382 | 4386 | rBV4 | 1240   | 937     | 0.05%  | 0.006% |
| 100 | 15.723 | 4548 | 4551 | 4553 | rBV3 | 1449   | 927     | 0.05%  | 0.006% |

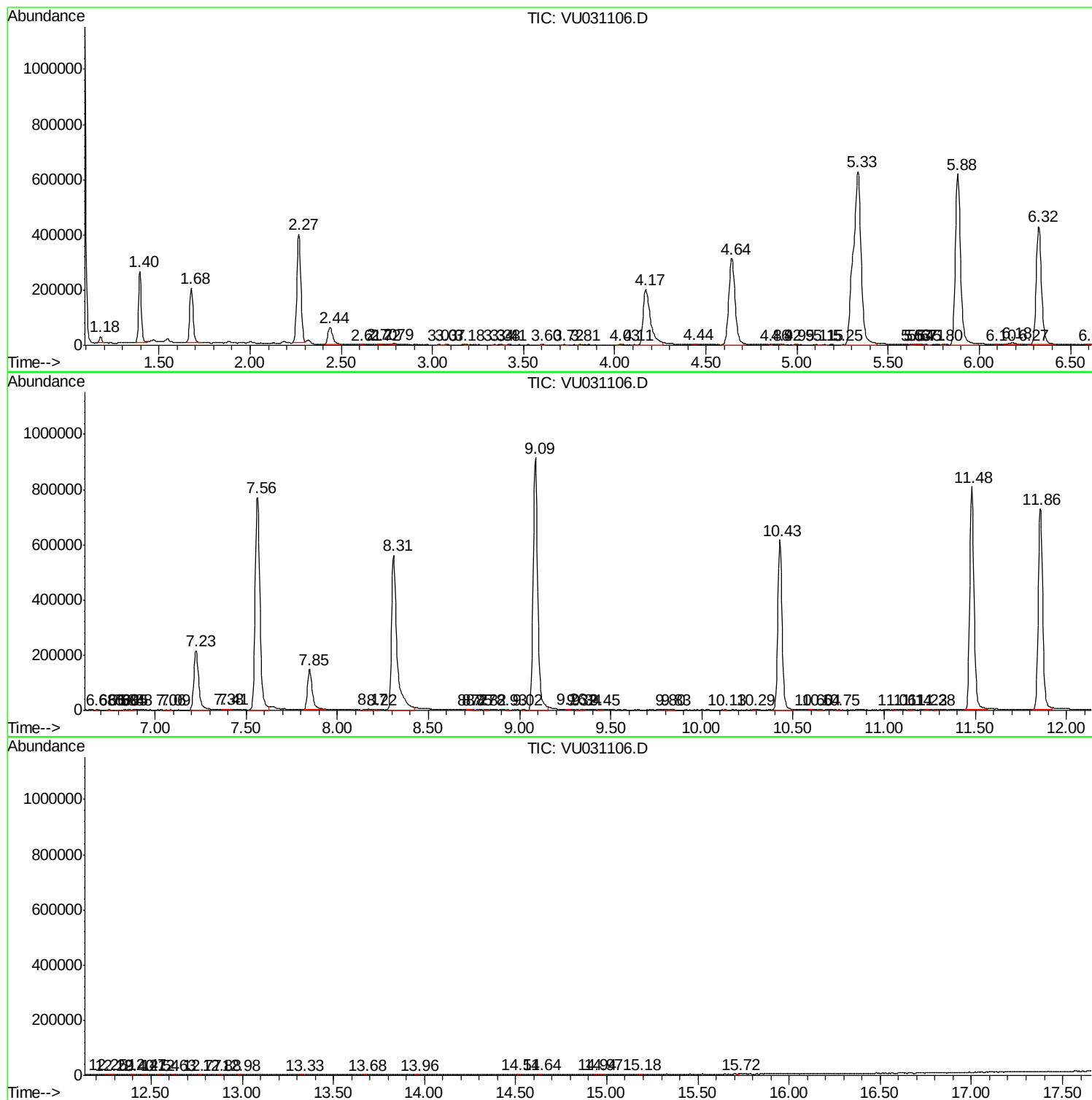
Sum of corrected areas: 15036793

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
Quant Title : VOC Analysis

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



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Quant Title : VOC Analysis

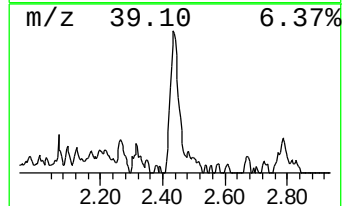
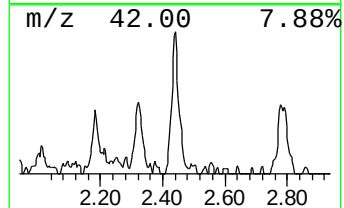
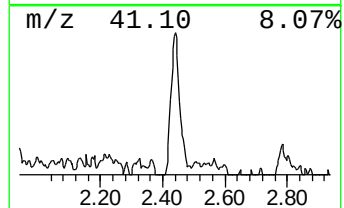
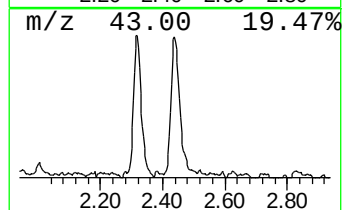
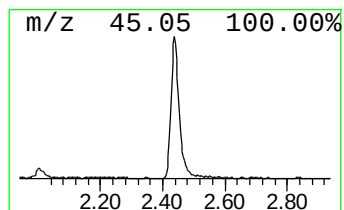
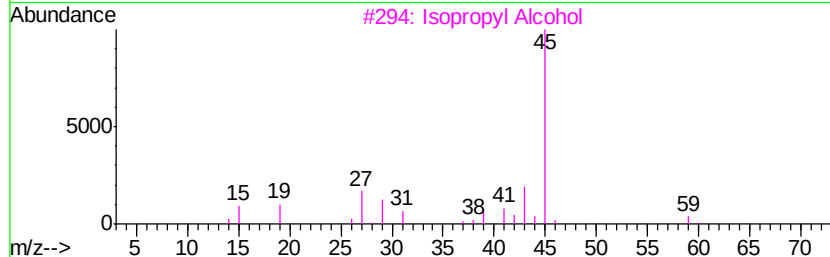
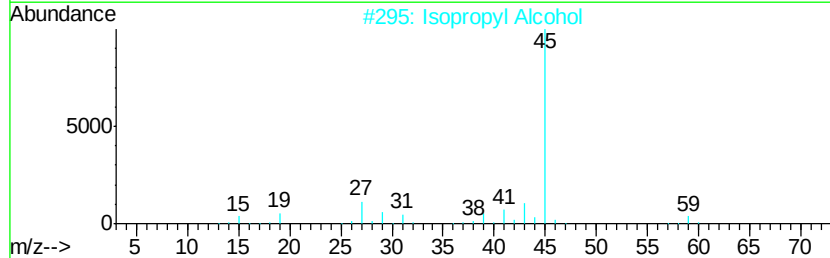
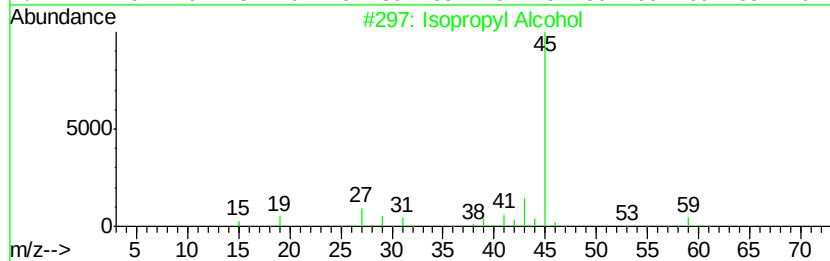
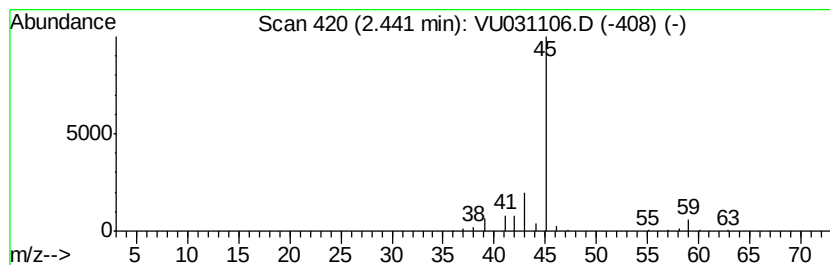
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Isopropyl Alcohol Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 2.44 | 4.68 ug/L | 117131 | 1,4-Difluorobenzene | 5.88 |

| Hit# of | 5                  | Tentative ID | MW | MolForm | CAS#        | Qual |
|---------|--------------------|--------------|----|---------|-------------|------|
| 1       | Isopropyl Alcohol  |              | 60 | C3H8O   | 000067-63-0 | 78   |
| 2       | Isopropyl Alcohol  |              | 60 | C3H8O   | 000067-63-0 | 78   |
| 3       | Isopropyl Alcohol  |              | 60 | C3H8O   | 000067-63-0 | 78   |
| 4       | Propane, 2-ethoxy- |              | 88 | C5H12O  | 000625-54-7 | 43   |
| 5       | Propane, 2-ethoxy- |              | 88 | C5H12O  | 000625-54-7 | 40   |



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Quant Title : VOC Analysis

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

| TIC Top Hit name  | RT   | EstConc | Units | Response | ---Internal Standard--- |      |         |      |
|-------------------|------|---------|-------|----------|-------------------------|------|---------|------|
|                   |      |         |       |          | #                       | RT   | Resp    | Conc |
| Isopropyl Alcohol | 2.44 | 4.7     | ug/L  | 117131   | 1                       | 5.88 | 1252580 | 50.0 |