

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040519\  
 Data File : VU030709.D  
 Acq On : 05 Apr 2019 01:31  
 Operator : JC/SP  
 Sample : K2277-02  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF2Q8

## 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       | 35        | rVB   | 18078       | 17677      | 0.76%        | 0.102%     |
| 2      | 1.325    | 69         | 73       | 80        | rVB2  | 7600        | 7151       | 0.31%        | 0.041%     |
| 3      | 1.396    | 88         | 95       | 108       | rBV   | 395572      | 408083     | 17.66%       | 2.346%     |
| 4      | 1.678    | 175        | 183      | 199       | rVB   | 271334      | 346664     | 15.00%       | 1.993%     |
| 5      | 2.267    | 356        | 366      | 378       | rBV   | 572943      | 860939     | 37.25%       | 4.950%     |
| 6      | 2.441    | 410        | 420      | 435       | rBV   | 62636       | 112173     | 4.85%        | 0.645%     |
| 7      | 2.585    | 463        | 465      | 468       | rVB2  | 1100        | 560        | 0.02%        | 0.003%     |
| 8      | 2.701    | 491        | 501      | 510       | rBV10 | 4488        | 8567       | 0.37%        | 0.049%     |
| 9      | 2.810    | 531        | 535      | 537       | rBV3  | 1413        | 1089       | 0.05%        | 0.006%     |
| 10     | 2.974    | 584        | 586      | 594       | rBV5  | 666         | 887        | 0.04%        | 0.005%     |
| 11     | 3.064    | 612        | 614      | 617       | rVB2  | 1081        | 523        | 0.02%        | 0.003%     |
| 12     | 3.100    | 620        | 625      | 631       | rBV4  | 830         | 897        | 0.04%        | 0.005%     |
| 13     | 3.177    | 645        | 649      | 656       | rBV6  | 1968        | 2778       | 0.12%        | 0.016%     |
| 14     | 3.347    | 695        | 702      | 703       | rBV2  | 546         | 565        | 0.02%        | 0.003%     |
| 15     | 3.463    | 734        | 738      | 741       | rBV3  | 844         | 674        | 0.03%        | 0.004%     |
| 16     | 3.537    | 757        | 761      | 764       | rVB2  | 586         | 495        | 0.02%        | 0.003%     |
| 17     | 3.666    | 798        | 801      | 806       | rVB3  | 717         | 654        | 0.03%        | 0.004%     |
| 18     | 3.926    | 878        | 882      | 887       | rVB2  | 692         | 690        | 0.03%        | 0.004%     |
| 19     | 3.977    | 895        | 898      | 904       | rVB2  | 735         | 511        | 0.02%        | 0.003%     |
| 20     | 4.174    | 945        | 959      | 987       | rBV   | 215200      | 586730     | 25.38%       | 3.374%     |
| 21     | 4.447    | 1041       | 1044     | 1048      | rBV4  | 1082        | 897        | 0.04%        | 0.005%     |
| 22     | 4.643    | 1087       | 1105     | 1130      | rBV   | 354776      | 883402     | 38.22%       | 5.079%     |
| 23     | 4.952    | 1198       | 1201     | 1203      | rBV3  | 719         | 596        | 0.03%        | 0.003%     |
| 24     | 4.987    | 1209       | 1212     | 1216      | rBV4  | 1358        | 703        | 0.03%        | 0.004%     |
| 25     | 5.209    | 1278       | 1281     | 1284      | rVB3  | 888         | 657        | 0.03%        | 0.004%     |
| 26     | 5.228    | 1284       | 1287     | 1292      | rBV3  | 875         | 908        | 0.04%        | 0.005%     |
| 27     | 5.254    | 1292       | 1295     | 1297      | rBV4  | 843         | 518        | 0.02%        | 0.003%     |
| 28     | 5.334    | 1297       | 1320     | 1346      | rBV2  | 788766      | 2311346    | 100.00%      | 13.290%    |
| 29     | 5.730    | 1437       | 1443     | 1448      | rBV5  | 992         | 1197       | 0.05%        | 0.007%     |
| 30     | 5.781    | 1455       | 1459     | 1461      | rBV4  | 981         | 662        | 0.03%        | 0.004%     |
| 31     | 5.881    | 1477       | 1490     | 1513      | rBV   | 630531      | 1271800    | 55.02%       | 7.313%     |
| 32     | 6.170    | 1577       | 1580     | 1586      | rBV6  | 1612        | 1728       | 0.07%        | 0.010%     |
| 33     | 6.251    | 1602       | 1605     | 1608      | rBV4  | 873         | 617        | 0.03%        | 0.004%     |
| 34     | 6.325    | 1612       | 1628     | 1650      | rBV   | 506458      | 1036075    | 44.83%       | 5.957%     |

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

|    |        |      |      |      |      |        |         |        |         |
|----|--------|------|------|------|------|--------|---------|--------|---------|
| 35 | 6.681  | 1735 | 1739 | 1742 | rVB4 | 897    | 690     | 0.03%  | 0.004%  |
| 36 | 6.701  | 1742 | 1745 | 1747 | rBV3 | 844    | 584     | 0.03%  | 0.003%  |
| 37 | 6.743  | 1751 | 1758 | 1763 | rBV4 | 798    | 950     | 0.04%  | 0.005%  |
| 38 | 6.817  | 1776 | 1781 | 1783 | rBV2 | 840    | 632     | 0.03%  | 0.004%  |
| 39 | 6.923  | 1810 | 1814 | 1816 | rBV3 | 625    | 525     | 0.02%  | 0.003%  |
| 40 | 7.032  | 1844 | 1848 | 1854 | rVB5 | 961    | 889     | 0.04%  | 0.005%  |
| 41 | 7.225  | 1894 | 1908 | 1933 | rBV  | 274253 | 517571  | 22.39% | 2.976%  |
| 42 | 7.373  | 1951 | 1954 | 1955 | rBV2 | 1600   | 1022    | 0.04%  | 0.006%  |
| 43 | 7.563  | 1999 | 2013 | 2040 | rBV  | 999289 | 1800300 | 77.89% | 10.351% |
| 44 | 7.797  | 2084 | 2086 | 2090 | rVB3 | 901    | 559     | 0.02%  | 0.003%  |
| 45 | 7.849  | 2090 | 2102 | 2128 | rBV  | 180487 | 340423  | 14.73% | 1.957%  |
| 46 | 8.138  | 2188 | 2192 | 2194 | rBV4 | 1062   | 805     | 0.03%  | 0.005%  |
| 47 | 8.173  | 2194 | 2203 | 2215 | rVB2 | 18441  | 31992   | 1.38%  | 0.184%  |
| 48 | 8.228  | 2216 | 2220 | 2227 | rVB5 | 2076   | 2937    | 0.13%  | 0.017%  |
| 49 | 8.308  | 2234 | 2245 | 2286 | rBV  | 642738 | 1251820 | 54.16% | 7.198%  |
| 50 | 8.730  | 2373 | 2376 | 2380 | rBV4 | 909    | 726     | 0.03%  | 0.004%  |
| 51 | 8.788  | 2391 | 2394 | 2397 | rBV2 | 786    | 663     | 0.03%  | 0.004%  |
| 52 | 8.906  | 2426 | 2431 | 2432 | rBV4 | 2408   | 1754    | 0.08%  | 0.010%  |
| 53 | 9.032  | 2466 | 2470 | 2474 | rBV3 | 1530   | 1217    | 0.05%  | 0.007%  |
| 54 | 9.087  | 2474 | 2487 | 2515 | rBV  | 921043 | 1593294 | 68.93% | 9.161%  |
| 55 | 9.267  | 2541 | 2543 | 2546 | rVB3 | 1123   | 548     | 0.02%  | 0.003%  |
| 56 | 9.521  | 2616 | 2622 | 2625 | rVV4 | 845    | 854     | 0.04%  | 0.005%  |
| 57 | 9.572  | 2635 | 2638 | 2642 | rVV3 | 578    | 496     | 0.02%  | 0.003%  |
| 58 | 9.669  | 2665 | 2668 | 2672 | rVB2 | 978    | 689     | 0.03%  | 0.004%  |
| 59 | 9.714  | 2677 | 2682 | 2692 | rVB5 | 1193   | 1576    | 0.07%  | 0.009%  |
| 60 | 9.810  | 2710 | 2712 | 2717 | rBV4 | 1049   | 943     | 0.04%  | 0.005%  |
| 61 | 9.871  | 2729 | 2731 | 2739 | rVB4 | 1014   | 978     | 0.04%  | 0.006%  |
| 62 | 9.923  | 2739 | 2747 | 2749 | rBV4 | 767    | 940     | 0.04%  | 0.005%  |
| 63 | 9.945  | 2749 | 2754 | 2763 | rVB7 | 1906   | 3222    | 0.14%  | 0.019%  |
| 64 | 10.083 | 2794 | 2797 | 2801 | rBV3 | 1056   | 816     | 0.04%  | 0.005%  |
| 65 | 10.183 | 2824 | 2828 | 2832 | rVB3 | 967    | 707     | 0.03%  | 0.004%  |
| 66 | 10.254 | 2846 | 2850 | 2851 | rVV3 | 727    | 588     | 0.03%  | 0.003%  |
| 67 | 10.302 | 2860 | 2865 | 2866 | rBV3 | 1028   | 851     | 0.04%  | 0.005%  |
| 68 | 10.315 | 2867 | 2869 | 2872 | rBV3 | 1090   | 735     | 0.03%  | 0.004%  |
| 69 | 10.427 | 2891 | 2904 | 2925 | rBV  | 660405 | 1066413 | 46.14% | 6.132%  |
| 70 | 10.553 | 2940 | 2943 | 2945 | rBV2 | 851    | 539     | 0.02%  | 0.003%  |
| 71 | 10.607 | 2950 | 2960 | 2973 | rVB3 | 19323  | 34427   | 1.49%  | 0.198%  |

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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

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 10.746 | 3001 | 3003 | 3006 | rBV  | 707    | 564     | 0.02%  | 0.003% |
| 73  | 10.797 | 3016 | 3019 | 3022 | rBV3 | 800    | 536     | 0.02%  | 0.003% |
| 74  | 10.816 | 3022 | 3025 | 3031 | rVB6 | 1557   | 1443    | 0.06%  | 0.008% |
| 75  | 10.910 | 3049 | 3054 | 3060 | rBV4 | 783    | 1158    | 0.05%  | 0.007% |
| 76  | 11.025 | 3087 | 3090 | 3093 | rVB3 | 1225   | 817     | 0.04%  | 0.005% |
| 77  | 11.083 | 3106 | 3108 | 3110 | rBV2 | 1141   | 642     | 0.03%  | 0.004% |
| 78  | 11.115 | 3111 | 3118 | 3123 | rVB7 | 2248   | 3486    | 0.15%  | 0.020% |
| 79  | 11.177 | 3133 | 3137 | 3140 | rBV2 | 705    | 643     | 0.03%  | 0.004% |
| 80  | 11.196 | 3140 | 3143 | 3144 | rBV  | 736    | 491     | 0.02%  | 0.003% |
| 81  | 11.279 | 3167 | 3169 | 3172 | rVB3 | 1205   | 607     | 0.03%  | 0.003% |
| 82  | 11.305 | 3172 | 3177 | 3180 | rBV4 | 1093   | 1072    | 0.05%  | 0.006% |
| 83  | 11.366 | 3194 | 3196 | 3200 | rVB3 | 1285   | 711     | 0.03%  | 0.004% |
| 84  | 11.398 | 3200 | 3206 | 3208 | rBV5 | 1464   | 1632    | 0.07%  | 0.009% |
| 85  | 11.479 | 3220 | 3231 | 3254 | rBV  | 853765 | 1391981 | 60.22% | 8.004% |
| 86  | 11.855 | 3336 | 3348 | 3374 | rBV  | 847248 | 1426947 | 61.74% | 8.205% |
| 87  | 12.363 | 3503 | 3506 | 3508 | rBV4 | 1069   | 628     | 0.03%  | 0.004% |
| 88  | 12.479 | 3536 | 3542 | 3551 | rVB3 | 7533   | 10144   | 0.44%  | 0.058% |
| 89  | 12.607 | 3579 | 3582 | 3583 | rBV  | 1184   | 682     | 0.03%  | 0.004% |
| 90  | 12.701 | 3605 | 3611 | 3612 | rBV4 | 2046   | 1816    | 0.08%  | 0.010% |
| 91  | 13.019 | 3708 | 3710 | 3715 | rVB4 | 937    | 738     | 0.03%  | 0.004% |
| 92  | 13.279 | 3785 | 3791 | 3794 | rBV6 | 2432   | 2652    | 0.11%  | 0.015% |
| 93  | 13.434 | 3836 | 3839 | 3841 | rBV2 | 1232   | 825     | 0.04%  | 0.005% |
| 94  | 13.549 | 3871 | 3875 | 3879 | rBV4 | 1518   | 1507    | 0.07%  | 0.009% |
| 95  | 13.758 | 3936 | 3940 | 3944 | rBV5 | 1396   | 1387    | 0.06%  | 0.008% |
| 96  | 13.836 | 3962 | 3964 | 3966 | rVB3 | 1258   | 515     | 0.02%  | 0.003% |
| 97  | 14.138 | 4054 | 4058 | 4061 | rBV3 | 1241   | 1218    | 0.05%  | 0.007% |
| 98  | 14.221 | 4081 | 4084 | 4085 | rBV2 | 1148   | 598     | 0.03%  | 0.003% |
| 99  | 14.887 | 4289 | 4291 | 4294 | rBV3 | 1703   | 1290    | 0.06%  | 0.007% |
| 100 | 15.090 | 4351 | 4354 | 4355 | rBV3 | 1366   | 866     | 0.04%  | 0.005% |

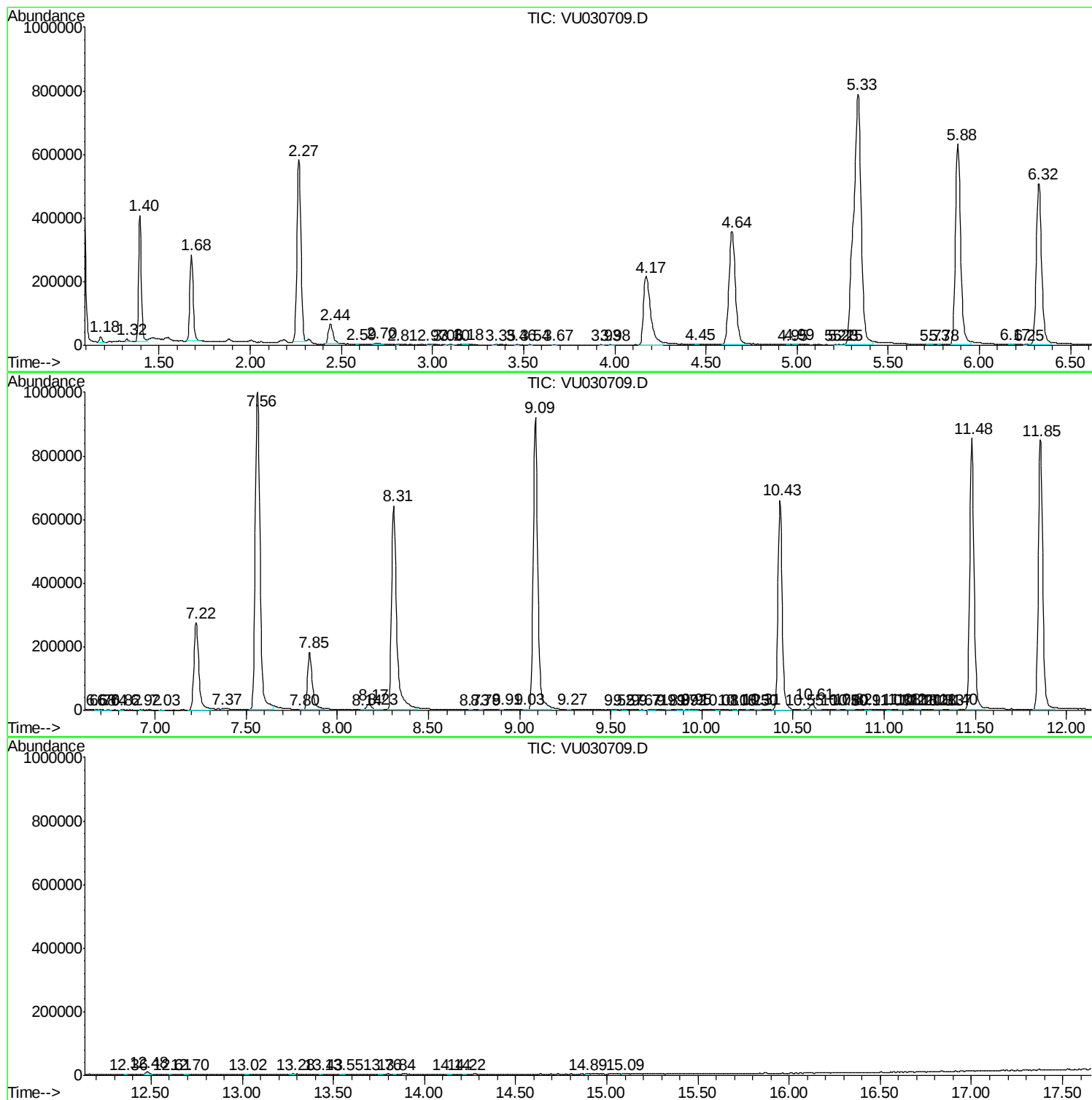
Sum of corrected areas: 17391684

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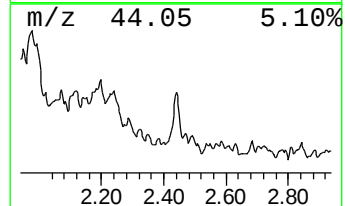
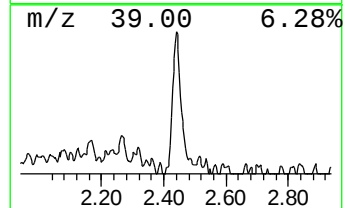
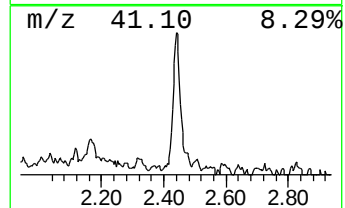
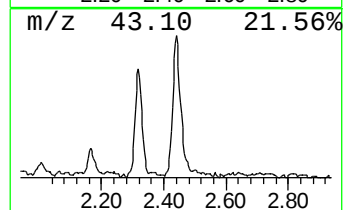
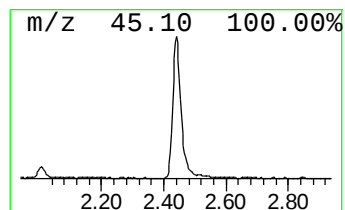
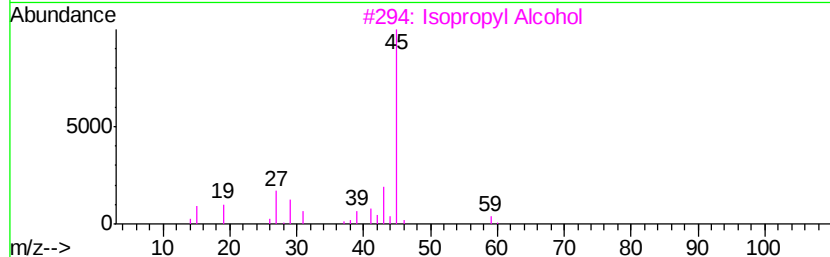
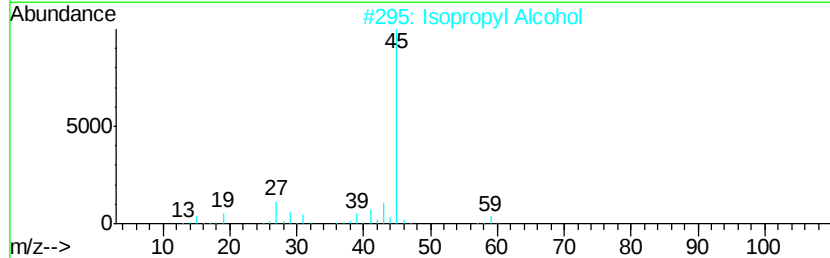
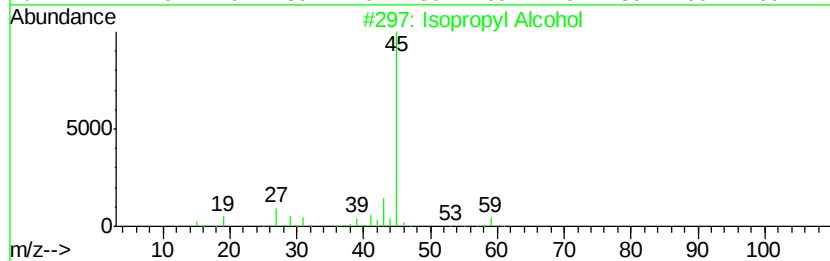
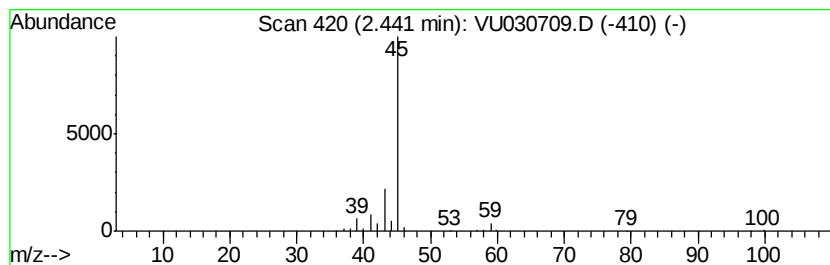
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Isopropyl Alcohol Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 2.44 | 4.41 ug/L | 112173 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | Tentative ID       | MW | MolForm | CAS#        | Qual |
|------|----|--------------------|----|---------|-------------|------|
| 1    | 5  | Isopropyl Alcohol  | 60 | C3H8O   | 000067-63-0 | 90   |
| 2    |    | Isopropyl Alcohol  | 60 | C3H8O   | 000067-63-0 | 90   |
| 3    |    | Isopropyl Alcohol  | 60 | C3H8O   | 000067-63-0 | 83   |
| 4    |    | Isopropyl Alcohol  | 60 | C3H8O   | 000067-63-0 | 56   |
| 5    |    | Propane, 2-ethoxy- | 88 | C5H12O  | 000625-54-7 | 43   |



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| TIC Top Hit name  | RT   | EstConc | Units | Response | --Internal Standard-- |      |         |      |
|-------------------|------|---------|-------|----------|-----------------------|------|---------|------|
|                   |      |         |       |          | #                     | RT   | Resp    | Conc |
| Isopropyl Alcohol | 2.44 | 4.4     | ug/L  | 112173   | 1                     | 5.88 | 1271800 | 50.0 |