

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
 Data File : VU034800.D  
 Acq On : 25 Sep 2019 14:06  
 Operator : JC/SP  
 Sample : K4948-08  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BEDP6

## 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\SOMULM091919WMA.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      | 1.177    | 21         | 27       | 37        | rBV2  | 34486       | 35337      | 1.46%        | 0.181%     |
| 2      | 1.392    | 87         | 94       | 104       | rBV   | 348691      | 378836     | 15.70%       | 1.946%     |
| 3      | 1.672    | 174        | 181      | 193       | rVB   | 287043      | 364385     | 15.11%       | 1.871%     |
| 4      | 2.257    | 353        | 363      | 376       | rVB   | 516972      | 793615     | 32.90%       | 4.076%     |
| 5      | 2.431    | 407        | 417      | 435       | rBV2  | 36425       | 70955      | 2.94%        | 0.364%     |
| 6      | 2.682    | 487        | 495      | 504       | rBV7  | 7048        | 12192      | 0.51%        | 0.063%     |
| 7      | 2.746    | 513        | 515      | 522       | rVB7  | 2239        | 2025       | 0.08%        | 0.010%     |
| 8      | 2.820    | 524        | 538      | 556       | rVB2  | 67675       | 153664     | 6.37%        | 0.789%     |
| 9      | 2.981    | 575        | 588      | 603       | rBV2  | 37179       | 84799      | 3.52%        | 0.436%     |
| 10     | 3.100    | 623        | 625      | 631       | rVB6  | 1196        | 846        | 0.04%        | 0.004%     |
| 11     | 3.129    | 631        | 634      | 636       | rBV4  | 1509        | 1029       | 0.04%        | 0.005%     |
| 12     | 3.257    | 670        | 674      | 678       | rBV5  | 1006        | 774        | 0.03%        | 0.004%     |
| 13     | 3.280    | 678        | 681      | 685       | rBV5  | 1895        | 1472       | 0.06%        | 0.008%     |
| 14     | 3.341    | 694        | 700      | 702       | rBV6  | 1188        | 1090       | 0.05%        | 0.006%     |
| 15     | 3.418    | 721        | 724      | 727       | rBV3  | 1209        | 814        | 0.03%        | 0.004%     |
| 16     | 3.463    | 735        | 738      | 744       | rVV6  | 1557        | 1321       | 0.05%        | 0.007%     |
| 17     | 3.592    | 775        | 778      | 780       | rBV4  | 1605        | 823        | 0.03%        | 0.004%     |
| 18     | 3.653    | 794        | 797      | 800       | rVB3  | 1215        | 896        | 0.04%        | 0.005%     |
| 19     | 3.675    | 800        | 804      | 807       | rBV4  | 1089        | 1112       | 0.05%        | 0.006%     |
| 20     | 3.720    | 814        | 818      | 823       | rVB6  | 1538        | 1334       | 0.06%        | 0.007%     |
| 21     | 3.746    | 823        | 826      | 829       | rBV5  | 1088        | 887        | 0.04%        | 0.005%     |
| 22     | 3.810    | 843        | 846      | 853       | rBV5  | 1773        | 2056       | 0.09%        | 0.011%     |
| 23     | 3.984    | 896        | 900      | 903       | rBV3  | 1105        | 959        | 0.04%        | 0.005%     |
| 24     | 4.071    | 918        | 927      | 930       | rBV7  | 1345        | 2063       | 0.09%        | 0.011%     |
| 25     | 4.090    | 930        | 933      | 937       | rVB4  | 1208        | 794        | 0.03%        | 0.004%     |
| 26     | 4.151    | 937        | 952      | 995       | rBV2  | 249109      | 755952     | 31.34%       | 3.883%     |
| 27     | 4.466    | 1048       | 1050     | 1055      | rVB4  | 1912        | 1469       | 0.06%        | 0.008%     |
| 28     | 4.540    | 1069       | 1073     | 1076      | rBV5  | 1336        | 1042       | 0.04%        | 0.005%     |
| 29     | 4.620    | 1079       | 1098     | 1122      | rBV   | 377282      | 910200     | 37.73%       | 4.675%     |
| 30     | 5.013    | 1217       | 1220     | 1223      | rBV3  | 1069        | 857        | 0.04%        | 0.004%     |
| 31     | 5.048    | 1228       | 1231     | 1236      | rVB5  | 1245        | 916        | 0.04%        | 0.005%     |
| 32     | 5.096    | 1240       | 1246     | 1250      | rBV7  | 1103        | 1068       | 0.04%        | 0.005%     |
| 33     | 5.180    | 1268       | 1272     | 1273      | rBV5  | 1142        | 817        | 0.03%        | 0.004%     |
| 34     | 5.225    | 1282       | 1286     | 1290      | rBV4  | 936         | 1003       | 0.04%        | 0.005%     |

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 5.315  | 1290 | 1314 | 1343 | rBV2 | 815810  | 2412322 | 100.00% | 12.390% |
| 36 | 5.559  | 1387 | 1390 | 1393 | rBV5 | 1899    | 1500    | 0.06%   | 0.008%  |
| 37 | 5.865  | 1470 | 1485 | 1506 | rBV  | 588519  | 1177435 | 48.81%  | 6.047%  |
| 38 | 6.309  | 1609 | 1623 | 1646 | rVV  | 548840  | 1115709 | 46.25%  | 5.730%  |
| 39 | 6.611  | 1713 | 1717 | 1719 | rVB5 | 1420    | 986     | 0.04%   | 0.005%  |
| 40 | 6.675  | 1734 | 1737 | 1739 | rBV3 | 1362    | 942     | 0.04%   | 0.005%  |
| 41 | 6.842  | 1786 | 1789 | 1791 | rBV5 | 1961    | 1329    | 0.06%   | 0.007%  |
| 42 | 6.932  | 1815 | 1817 | 1823 | rVB3 | 2017    | 1266    | 0.05%   | 0.007%  |
| 43 | 7.006  | 1837 | 1840 | 1842 | rBV3 | 1650    | 1225    | 0.05%   | 0.006%  |
| 44 | 7.045  | 1849 | 1852 | 1854 | rBV3 | 1633    | 922     | 0.04%   | 0.005%  |
| 45 | 7.093  | 1862 | 1867 | 1868 | rBV3 | 1012    | 800     | 0.03%   | 0.004%  |
| 46 | 7.157  | 1883 | 1887 | 1889 | rBV5 | 1004    | 810     | 0.03%   | 0.004%  |
| 47 | 7.206  | 1889 | 1902 | 1921 | rBV  | 314328  | 587239  | 24.34%  | 3.016%  |
| 48 | 7.543  | 1994 | 2007 | 2026 | rBV  | 1096450 | 1945615 | 80.65%  | 9.993%  |
| 49 | 7.829  | 2085 | 2096 | 2115 | rBV2 | 203317  | 376544  | 15.61%  | 1.934%  |
| 50 | 8.042  | 2159 | 2162 | 2164 | rBV3 | 1197    | 835     | 0.03%   | 0.004%  |
| 51 | 8.083  | 2169 | 2175 | 2178 | rBV6 | 1592    | 1751    | 0.07%   | 0.009%  |
| 52 | 8.161  | 2193 | 2199 | 2200 | rBV4 | 5508    | 5899    | 0.24%   | 0.030%  |
| 53 | 8.206  | 2201 | 2213 | 2229 | rVV  | 757173  | 1284474 | 53.25%  | 6.597%  |
| 54 | 8.289  | 2229 | 2239 | 2265 | rBV  | 715957  | 1318916 | 54.67%  | 6.774%  |
| 55 | 8.582  | 2328 | 2330 | 2333 | rBV4 | 1209    | 807     | 0.03%   | 0.004%  |
| 56 | 8.659  | 2348 | 2354 | 2357 | rBV7 | 1335    | 1694    | 0.07%   | 0.009%  |
| 57 | 8.714  | 2367 | 2371 | 2374 | rBV4 | 1295    | 918     | 0.04%   | 0.005%  |
| 58 | 8.855  | 2413 | 2415 | 2419 | rVB4 | 1449    | 992     | 0.04%   | 0.005%  |
| 59 | 8.939  | 2438 | 2441 | 2445 | rVB4 | 1526    | 1263    | 0.05%   | 0.006%  |
| 60 | 9.067  | 2468 | 2481 | 2506 | rBV  | 869345  | 1474112 | 61.11%  | 7.571%  |
| 61 | 9.289  | 2545 | 2550 | 2555 | rVB7 | 1835    | 1913    | 0.08%   | 0.010%  |
| 62 | 9.357  | 2567 | 2571 | 2575 | rBV7 | 1436    | 1653    | 0.07%   | 0.008%  |
| 63 | 9.588  | 2638 | 2643 | 2648 | rVV7 | 1571    | 1517    | 0.06%   | 0.008%  |
| 64 | 9.755  | 2692 | 2695 | 2698 | rBV5 | 1656    | 1134    | 0.05%   | 0.006%  |
| 65 | 9.890  | 2735 | 2737 | 2741 | rVB3 | 1176    | 818     | 0.03%   | 0.004%  |
| 66 | 9.919  | 2741 | 2746 | 2749 | rBV5 | 1344    | 1102    | 0.05%   | 0.006%  |
| 67 | 9.984  | 2762 | 2766 | 2772 | rBV6 | 1322    | 1372    | 0.06%   | 0.007%  |
| 68 | 10.263 | 2851 | 2853 | 2857 | rVB2 | 1370    | 1026    | 0.04%   | 0.005%  |
| 69 | 10.286 | 2857 | 2860 | 2864 | rBV4 | 1756    | 1731    | 0.07%   | 0.009%  |
| 70 | 10.408 | 2881 | 2898 | 2918 | rBV  | 711669  | 1180870 | 48.95%  | 6.065%  |
| 71 | 10.527 | 2931 | 2935 | 2938 | rBV3 | 1484    | 1112    | 0.05%   | 0.006%  |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 10.585 | 2948 | 2953 | 2962 | rVB6 | 6020   | 8910    | 0.37%  | 0.046% |
| 73  | 10.755 | 3001 | 3006 | 3009 | rBV7 | 1957   | 1878    | 0.08%  | 0.010% |
| 74  | 10.884 | 3042 | 3046 | 3049 | rBV5 | 1153   | 1046    | 0.04%  | 0.005% |
| 75  | 10.942 | 3059 | 3064 | 3065 | rVV3 | 1401   | 987     | 0.04%  | 0.005% |
| 76  | 10.955 | 3066 | 3068 | 3074 | rVB4 | 2332   | 1681    | 0.07%  | 0.009% |
| 77  | 11.003 | 3079 | 3083 | 3088 | rVB6 | 1254   | 1192    | 0.05%  | 0.006% |
| 78  | 11.112 | 3110 | 3117 | 3118 | rBV5 | 1294   | 1197    | 0.05%  | 0.006% |
| 79  | 11.312 | 3177 | 3179 | 3183 | rBV3 | 1152   | 802     | 0.03%  | 0.004% |
| 80  | 11.389 | 3199 | 3203 | 3205 | rBV3 | 1166   | 801     | 0.03%  | 0.004% |
| 81  | 11.405 | 3205 | 3208 | 3213 | rVB4 | 2545   | 1929    | 0.08%  | 0.010% |
| 82  | 11.459 | 3213 | 3225 | 3253 | rBV  | 775535 | 1320050 | 54.72% | 6.780% |
| 83  | 11.836 | 3330 | 3342 | 3365 | rBV  | 958389 | 1611858 | 66.82% | 8.278% |
| 84  | 12.209 | 3454 | 3458 | 3462 | rBV6 | 1660   | 1436    | 0.06%  | 0.007% |
| 85  | 12.598 | 3576 | 3579 | 3581 | rBV3 | 1585   | 1014    | 0.04%  | 0.005% |
| 86  | 12.762 | 3625 | 3630 | 3632 | rBV3 | 1583   | 1214    | 0.05%  | 0.006% |
| 87  | 13.064 | 3722 | 3724 | 3727 | rBV2 | 1102   | 760     | 0.03%  | 0.004% |
| 88  | 13.234 | 3773 | 3777 | 3780 | rBV3 | 1197   | 876     | 0.04%  | 0.004% |
| 89  | 13.311 | 3797 | 3801 | 3803 | rBV4 | 1514   | 1065    | 0.04%  | 0.005% |
| 90  | 13.427 | 3834 | 3837 | 3842 | rVB5 | 1480   | 814     | 0.03%  | 0.004% |
| 91  | 13.688 | 3915 | 3918 | 3922 | rBV4 | 1464   | 1035    | 0.04%  | 0.005% |
| 92  | 13.736 | 3931 | 3933 | 3935 | rBV2 | 1127   | 758     | 0.03%  | 0.004% |
| 93  | 14.125 | 4052 | 4054 | 4056 | rBV3 | 1187   | 768     | 0.03%  | 0.004% |
| 94  | 14.164 | 4063 | 4066 | 4070 | rBV4 | 2242   | 2023    | 0.08%  | 0.010% |
| 95  | 14.286 | 4100 | 4104 | 4107 | rBV4 | 1710   | 1609    | 0.07%  | 0.008% |
| 96  | 14.337 | 4116 | 4120 | 4123 | rBV4 | 1783   | 1473    | 0.06%  | 0.008% |
| 97  | 14.681 | 4222 | 4227 | 4229 | rBV4 | 1882   | 1802    | 0.07%  | 0.009% |
| 98  | 14.774 | 4254 | 4256 | 4261 | rBV5 | 1738   | 1104    | 0.05%  | 0.006% |
| 99  | 14.903 | 4293 | 4296 | 4298 | rBV3 | 1659   | 1145    | 0.05%  | 0.006% |
| 100 | 15.215 | 4391 | 4393 | 4395 | rBV2 | 2127   | 1257    | 0.05%  | 0.006% |

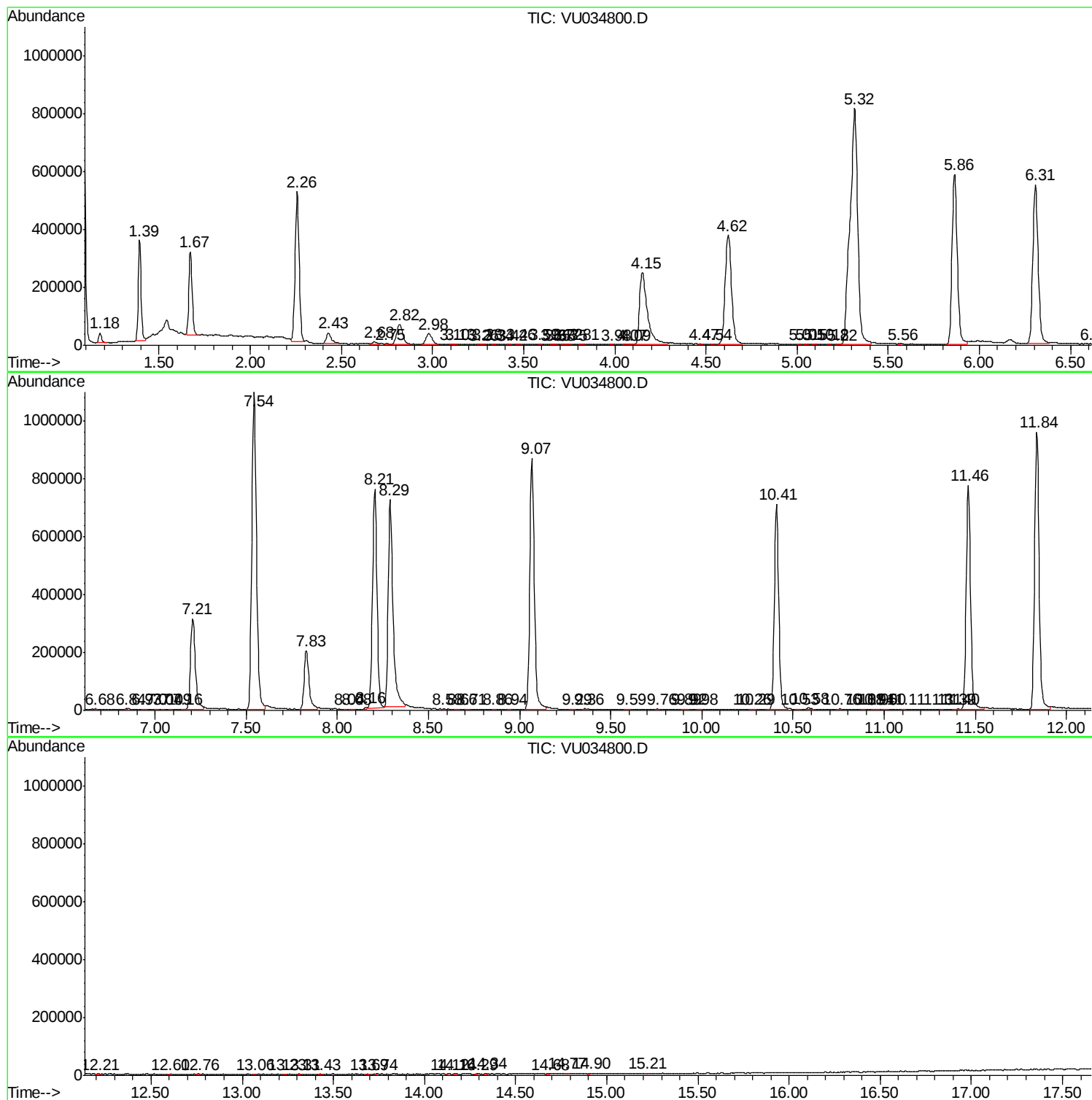
Sum of corrected areas: 19470439

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
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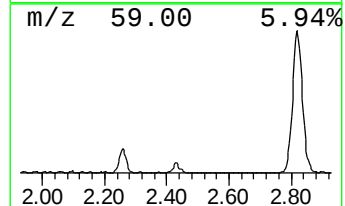
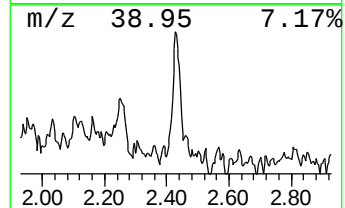
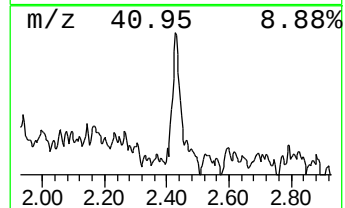
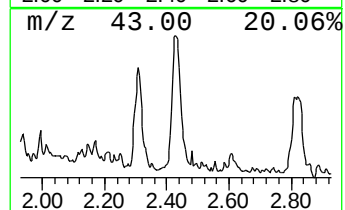
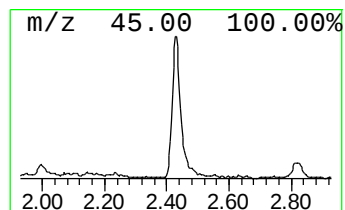
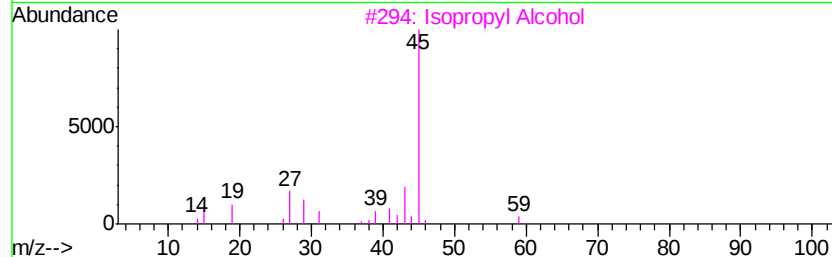
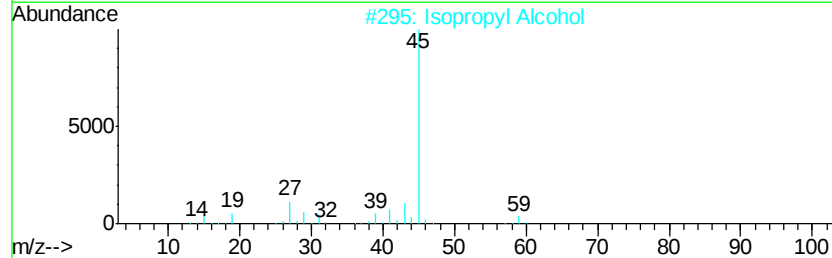
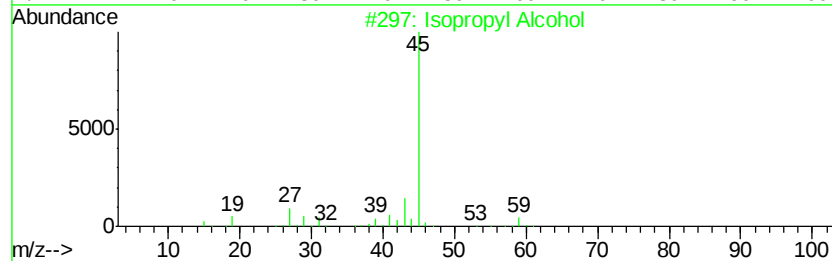
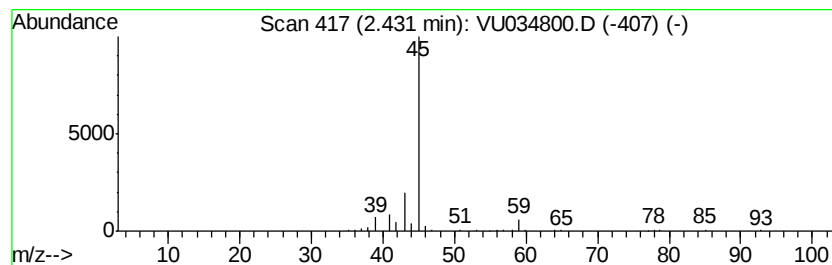
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Isopropyl Alcohol Concentration Rank 3

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.43 | 3.01 ug/L | 70955 | 1,4-Difluorobenzene | 5.86 |

| Hit# | of | Tentative ID       | MW | MolForm | CAS#        | Qual |
|------|----|--------------------|----|---------|-------------|------|
| 1    | 5  | Isopropyl Alcohol  | 60 | C3H8O   | 000067-63-0 | 86   |
| 2    |    | Isopropyl Alcohol  | 60 | C3H8O   | 000067-63-0 | 78   |
| 3    |    | Isopropyl Alcohol  | 60 | C3H8O   | 000067-63-0 | 72   |
| 4    |    | Propane, 2-ethoxy- | 88 | C5H12O  | 000625-54-7 | 64   |
| 5    |    | Propane, 2-ethoxy- | 88 | C5H12O  | 000625-54-7 | 56   |



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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 | 2.43 | 3.0     | ug/L  | 70955    | 1                     | 5.86 | 1177440 | 50.0 |