

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080718\  
 Data File : VU025959.D  
 Acq On : 08 Aug 2018 00:07  
 Operator : MD/SY  
 Sample : J4361-14  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A4ZC9

## 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\SOMULM080718WMA.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      | 0.667    | 21         | 24       | 31        | rVB2  | 457         | 398        | 0.01%        | 0.002%     |
| 2      | 0.748    | 47         | 49       | 56        | rVB2  | 478         | 436        | 0.01%        | 0.002%     |
| 3      | 1.088    | 137        | 155      | 171       | rBV   | 169312      | 201156     | 3.16%        | 0.831%     |
| 4      | 1.294    | 215        | 219      | 224       | rVB   | 3669        | 3426       | 0.05%        | 0.014%     |
| 5      | 1.330    | 227        | 230      | 237       | rVV3  | 1795        | 1434       | 0.02%        | 0.006%     |
| 6      | 1.400    | 245        | 252      | 263       | rBV   | 132839      | 137500     | 2.16%        | 0.568%     |
| 7      | 1.474    | 270        | 275      | 282       | rVB   | 7231        | 7765       | 0.12%        | 0.032%     |
| 8      | 1.677    | 330        | 338      | 353       | rVB   | 94693       | 123466     | 1.94%        | 0.510%     |
| 9      | 2.011    | 437        | 442      | 452       | rVB   | 7426        | 10530      | 0.17%        | 0.043%     |
| 10     | 2.272    | 512        | 523      | 532       | rBV   | 216536      | 332486     | 5.23%        | 1.373%     |
| 11     | 2.323    | 532        | 539      | 560       | rVB   | 105947      | 172016     | 2.70%        | 0.710%     |
| 12     | 2.445    | 567        | 577      | 597       | rVB   | 55260       | 98369      | 1.55%        | 0.406%     |
| 13     | 2.619    | 625        | 631      | 636       | rBV5  | 1976        | 2445       | 0.04%        | 0.010%     |
| 14     | 2.699    | 652        | 656      | 660       | rVB3  | 630         | 523        | 0.01%        | 0.002%     |
| 15     | 2.799    | 683        | 687      | 690       | rBV2  | 471         | 405        | 0.01%        | 0.002%     |
| 16     | 2.831    | 693        | 697      | 698       | rBV3  | 540         | 417        | 0.01%        | 0.002%     |
| 17     | 2.896    | 714        | 717      | 720       | rBV2  | 395         | 361        | 0.01%        | 0.001%     |
| 18     | 3.185    | 804        | 807      | 810       | rVB3  | 681         | 496        | 0.01%        | 0.002%     |
| 19     | 3.445    | 883        | 888      | 892       | rBV3  | 400         | 526        | 0.01%        | 0.002%     |
| 20     | 3.506    | 905        | 907      | 912       | rVB2  | 484         | 334        | 0.01%        | 0.001%     |
| 21     | 3.593    | 927        | 934      | 936       | rBV3  | 429         | 508        | 0.01%        | 0.002%     |
| 22     | 3.773    | 980        | 990      | 993       | rVV2  | 423         | 725        | 0.01%        | 0.003%     |
| 23     | 3.793    | 993        | 996      | 1000      | rVV3  | 374         | 357        | 0.01%        | 0.001%     |
| 24     | 3.841    | 1008       | 1011     | 1016      | rVV4  | 403         | 425        | 0.01%        | 0.002%     |
| 25     | 3.998    | 1053       | 1060     | 1067      | rVV7  | 1336        | 2370       | 0.04%        | 0.010%     |
| 26     | 4.182    | 1102       | 1117     | 1133      | rVV   | 84292       | 216262     | 3.40%        | 0.893%     |
| 27     | 4.268    | 1134       | 1144     | 1169      | rVB   | 45623       | 114996     | 1.81%        | 0.475%     |
| 28     | 4.577    | 1237       | 1240     | 1243      | rBV   | 541         | 466        | 0.01%        | 0.002%     |
| 29     | 4.648    | 1245       | 1262     | 1287      | rVV3  | 271277      | 673242     | 10.58%       | 2.780%     |
| 30     | 4.793    | 1305       | 1307     | 1311      | rVB3  | 695         | 347        | 0.01%        | 0.001%     |
| 31     | 4.883    | 1330       | 1335     | 1336      | rBV3  | 717         | 627        | 0.01%        | 0.003%     |
| 32     | 4.989    | 1358       | 1368     | 1379      | rBV5  | 1048        | 2450       | 0.04%        | 0.010%     |
| 33     | 5.342    | 1454       | 1478     | 1512      | rVV2  | 342531      | 1029501    | 16.18%       | 4.251%     |
| 34     | 5.603    | 1545       | 1559     | 1570      | rBV5  | 1962        | 4277       | 0.07%        | 0.018%     |

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 Title : VOC Analysis

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 5.754  | 1600 | 1606 | 1608 | rBV  | 448     | 406     | 0.01%   | 0.002%  |
| 36 | 5.789  | 1613 | 1617 | 1620 | rBV4 | 1007    | 985     | 0.02%   | 0.004%  |
| 37 | 5.831  | 1628 | 1630 | 1634 | rVB2 | 712     | 418     | 0.01%   | 0.002%  |
| 38 | 5.889  | 1634 | 1648 | 1669 | rBV  | 379252  | 741284  | 11.65%  | 3.061%  |
| 39 | 6.095  | 1707 | 1712 | 1717 | rBV3 | 452     | 572     | 0.01%   | 0.002%  |
| 40 | 6.194  | 1737 | 1743 | 1748 | rVB7 | 921     | 1346    | 0.02%   | 0.006%  |
| 41 | 6.336  | 1770 | 1787 | 1805 | rBV  | 228163  | 455822  | 7.16%   | 1.882%  |
| 42 | 6.426  | 1809 | 1815 | 1817 | rBV5 | 1169    | 1358    | 0.02%   | 0.006%  |
| 43 | 6.535  | 1843 | 1849 | 1850 | rBV3 | 1796    | 1521    | 0.02%   | 0.006%  |
| 44 | 6.735  | 1909 | 1911 | 1919 | rVV2 | 312     | 402     | 0.01%   | 0.002%  |
| 45 | 6.828  | 1931 | 1940 | 1947 | rBV3 | 2071    | 3562    | 0.06%   | 0.015%  |
| 46 | 6.934  | 1969 | 1973 | 1978 | rVV3 | 387     | 355     | 0.01%   | 0.001%  |
| 47 | 7.230  | 2053 | 2065 | 2082 | rBV2 | 126273  | 223898  | 3.52%   | 0.925%  |
| 48 | 7.342  | 2097 | 2100 | 2105 | rBV3 | 349     | 354     | 0.01%   | 0.001%  |
| 49 | 7.471  | 2130 | 2140 | 2146 | rBV5 | 3190    | 4981    | 0.08%   | 0.021%  |
| 50 | 7.571  | 2157 | 2171 | 2184 | rBV  | 460296  | 803528  | 12.63%  | 3.318%  |
| 51 | 7.641  | 2184 | 2193 | 2209 | rVB  | 81545   | 145599  | 2.29%   | 0.601%  |
| 52 | 7.854  | 2247 | 2259 | 2275 | rBV  | 92375   | 155515  | 2.44%   | 0.642%  |
| 53 | 8.104  | 2333 | 2337 | 2340 | rBV2 | 411     | 366     | 0.01%   | 0.002%  |
| 54 | 8.172  | 2355 | 2358 | 2359 | rBV  | 704     | 340     | 0.01%   | 0.001%  |
| 55 | 8.230  | 2367 | 2376 | 2388 | rBV4 | 14045   | 23552   | 0.37%   | 0.097%  |
| 56 | 8.313  | 2391 | 2402 | 2429 | rBV  | 267072  | 455746  | 7.16%   | 1.882%  |
| 57 | 8.471  | 2442 | 2451 | 2466 | rVB3 | 18706   | 32507   | 0.51%   | 0.134%  |
| 58 | 8.873  | 2572 | 2576 | 2580 | rBV2 | 525     | 447     | 0.01%   | 0.002%  |
| 59 | 9.124  | 2631 | 2654 | 2687 | rBV2 | 3353718 | 6362790 | 100.00% | 26.273% |
| 60 | 9.381  | 2723 | 2734 | 2742 | rVB4 | 2319    | 4289    | 0.07%   | 0.018%  |
| 61 | 9.426  | 2742 | 2748 | 2749 | rBV  | 322     | 358     | 0.01%   | 0.001%  |
| 62 | 9.741  | 2844 | 2846 | 2852 | rVB3 | 439     | 374     | 0.01%   | 0.002%  |
| 63 | 9.779  | 2852 | 2858 | 2860 | rBV2 | 1097    | 975     | 0.02%   | 0.004%  |
| 64 | 9.818  | 2867 | 2870 | 2873 | rBV2 | 532     | 406     | 0.01%   | 0.002%  |
| 65 | 9.924  | 2893 | 2903 | 2911 | rBV3 | 4971    | 7521    | 0.12%   | 0.031%  |
| 66 | 10.033 | 2929 | 2937 | 2952 | rBV5 | 4287    | 6821    | 0.11%   | 0.028%  |
| 67 | 10.156 | 2971 | 2975 | 2978 | rBV2 | 422     | 335     | 0.01%   | 0.001%  |
| 68 | 10.236 | 2993 | 3000 | 3014 | rVV4 | 7322    | 12562   | 0.20%   | 0.052%  |
| 69 | 10.313 | 3019 | 3024 | 3033 | rVB5 | 1602    | 2172    | 0.03%   | 0.009%  |
| 70 | 10.368 | 3033 | 3041 | 3043 | rBV3 | 592     | 559     | 0.01%   | 0.002%  |
| 71 | 10.435 | 3049 | 3062 | 3082 | rVB  | 313621  | 499674  | 7.85%   | 2.063%  |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080718WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |         |         |        |         |
|-----|--------|------|------|------|------|---------|---------|--------|---------|
| 72  | 10.580 | 3105 | 3107 | 3112 | rBV3 | 350     | 363     | 0.01%  | 0.001%  |
| 73  | 10.734 | 3150 | 3155 | 3159 | rBV5 | 874     | 754     | 0.01%  | 0.003%  |
| 74  | 11.062 | 3250 | 3257 | 3263 | rBV5 | 866     | 1287    | 0.02%  | 0.005%  |
| 75  | 11.146 | 3271 | 3283 | 3295 | rBV6 | 4308    | 8543    | 0.13%  | 0.035%  |
| 76  | 11.262 | 3311 | 3319 | 3328 | rBV3 | 4105    | 6584    | 0.10%  | 0.027%  |
| 77  | 11.320 | 3333 | 3337 | 3339 | rBV2 | 652     | 537     | 0.01%  | 0.002%  |
| 78  | 11.349 | 3343 | 3346 | 3348 | rBV2 | 704     | 456     | 0.01%  | 0.002%  |
| 79  | 11.377 | 3349 | 3355 | 3357 | rVV5 | 2014    | 1909    | 0.03%  | 0.008%  |
| 80  | 11.419 | 3357 | 3368 | 3379 | rVV  | 243712  | 380994  | 5.99%  | 1.573%  |
| 81  | 11.509 | 3379 | 3396 | 3417 | rVB2 | 1835094 | 3645140 | 57.29% | 15.052% |
| 82  | 11.757 | 3464 | 3473 | 3486 | rBV3 | 12492   | 26295   | 0.41%  | 0.109%  |
| 83  | 11.882 | 3493 | 3512 | 3538 | rBV3 | 2138583 | 4019648 | 63.17% | 16.598% |
| 84  | 12.101 | 3576 | 3580 | 3582 | rBV3 | 818     | 645     | 0.01%  | 0.003%  |
| 85  | 12.201 | 3608 | 3611 | 3615 | rBV4 | 550     | 471     | 0.01%  | 0.002%  |
| 86  | 12.329 | 3648 | 3651 | 3654 | rBV2 | 519     | 467     | 0.01%  | 0.002%  |
| 87  | 12.458 | 3688 | 3691 | 3696 | rBV4 | 877     | 638     | 0.01%  | 0.003%  |
| 88  | 12.574 | 3719 | 3727 | 3740 | rVV7 | 6597    | 11589   | 0.18%  | 0.048%  |
| 89  | 12.638 | 3740 | 3747 | 3756 | rVV4 | 6561    | 10471   | 0.16%  | 0.043%  |
| 90  | 12.673 | 3756 | 3758 | 3764 | rVB2 | 1052    | 667     | 0.01%  | 0.003%  |
| 91  | 12.815 | 3796 | 3802 | 3803 | rBV3 | 2692    | 2369    | 0.04%  | 0.010%  |
| 92  | 12.953 | 3840 | 3845 | 3846 | rBV3 | 903     | 729     | 0.01%  | 0.003%  |
| 93  | 12.992 | 3852 | 3857 | 3866 | rVB6 | 3617    | 4831    | 0.08%  | 0.020%  |
| 94  | 13.506 | 4004 | 4017 | 4045 | rBV  | 1506924 | 2343086 | 36.82% | 9.675%  |
| 95  | 13.747 | 4084 | 4092 | 4103 | rVB4 | 1976    | 3964    | 0.06%  | 0.016%  |
| 96  | 13.811 | 4109 | 4112 | 4114 | rVB2 | 765     | 426     | 0.01%  | 0.002%  |
| 97  | 13.992 | 4156 | 4168 | 4189 | rBV  | 356298  | 571708  | 8.99%  | 2.361%  |
| 98  | 15.078 | 4496 | 4506 | 4519 | rBV4 | 13284   | 23208   | 0.36%  | 0.096%  |
| 99  | 15.143 | 4523 | 4526 | 4530 | rVB4 | 673     | 482     | 0.01%  | 0.002%  |
| 100 | 15.654 | 4676 | 4685 | 4700 | rBV2 | 30807   | 54570   | 0.86%  | 0.225%  |

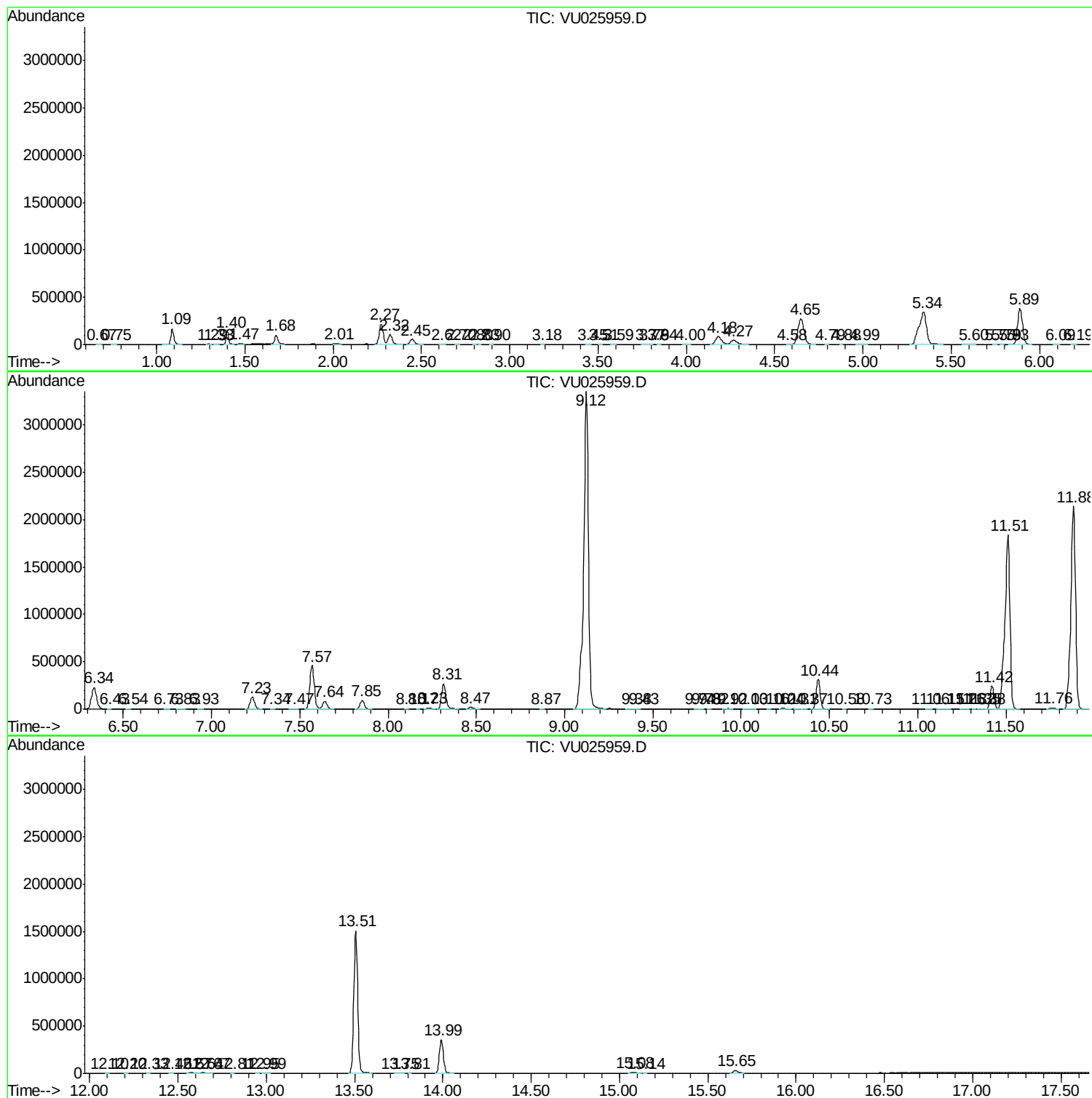
Sum of corrected areas: 24217573

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080718WMA.M  
Quant Title : VOC Analysis

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



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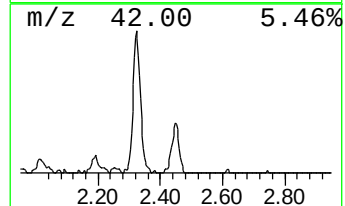
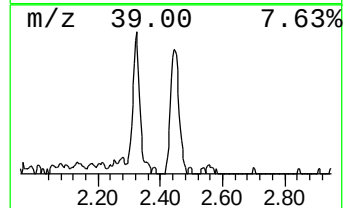
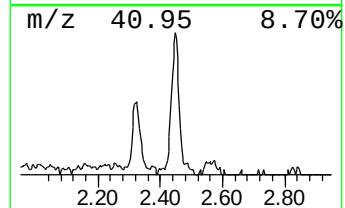
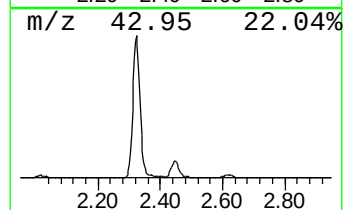
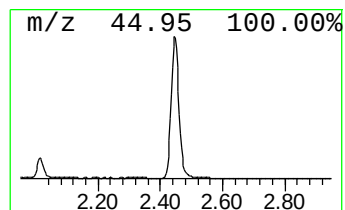
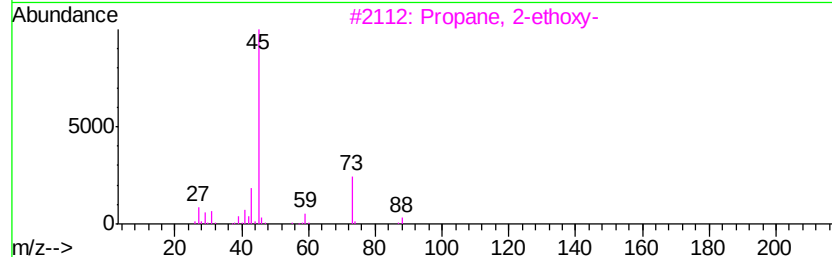
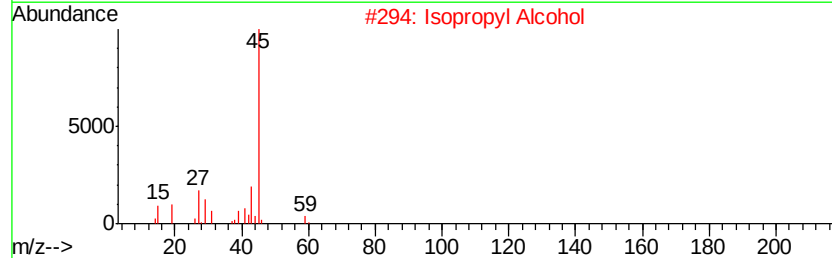
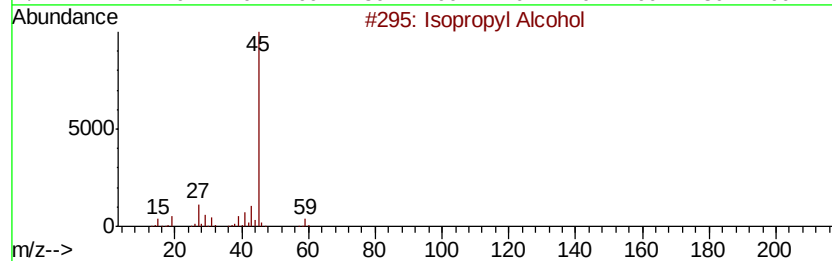
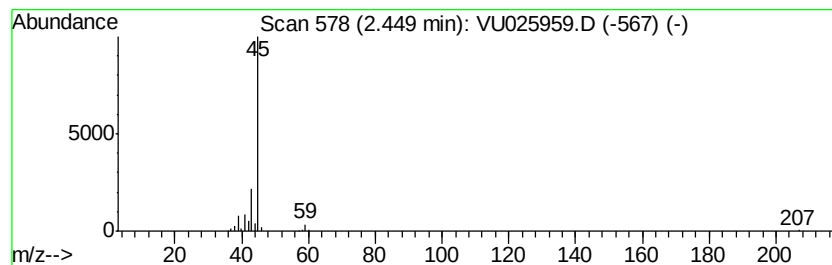
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Isopropyl Alcohol Concentration Rank 3

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.45 | 6.64 ug/L | 98369 | 1,4-Difluorobenzene | 5.89 |

| 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       | Propane, 2-ethoxy-               |              | 88 | C5H12O  | 000625-54-7 | 40   |
| 4       | Formic acid, 1-methylethyl ester |              | 88 | C4H8O2  | 000625-55-8 | 40   |
| 5       | Hydrazine, 1,2-dimethyl-         |              | 60 | C2H8N2  | 000540-73-8 | 9    |



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| TIC Top Hit name  | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|-------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                   |      |         |       |          | #                     | RT   | Resp   | Conc |
| Isopropyl Alcohol | 2.45 | 6.6     | ug/L  | 98369    | 1                     | 5.89 | 741284 | 50.0 |