

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU031519\  
 Data File : VU030095.D  
 Acq On : 14 Mar 2019 23:27  
 Operator : JC/SP  
 Sample : K1918-10  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09H3

## 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\SOMULM031319WMA.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         | 1.183       | 24            | 29          | 37           | rBV3     | 9375           | 9068          | 0.61%           | 0.072%        |
| 2         | 1.399       | 89            | 96          | 107          | rBV      | 170287         | 170799        | 11.57%          | 1.352%        |
| 3         | 1.682       | 176           | 184         | 204          | rVB      | 140258         | 183182        | 12.41%          | 1.450%        |
| 4         | 2.273       | 357           | 368         | 379          | rBV      | 301244         | 460168        | 31.17%          | 3.643%        |
| 5         | 2.440       | 410           | 420         | 441          | rBV      | 101181         | 178083        | 12.06%          | 1.410%        |
| 6         | 2.611       | 471           | 473         | 476          | rBV      | 565            | 331           | 0.02%           | 0.003%        |
| 7         | 2.797       | 527           | 531         | 534          | rBV2     | 547            | 404           | 0.03%           | 0.003%        |
| 8         | 2.839       | 534           | 544         | 552          | rBV4     | 2430           | 4655          | 0.32%           | 0.037%        |
| 9         | 2.948       | 572           | 578         | 579          | rBV2     | 561            | 506           | 0.03%           | 0.004%        |
| 10        | 3.029       | 598           | 603         | 606          | rBV3     | 645            | 677           | 0.05%           | 0.005%        |
| 11        | 3.067       | 611           | 615         | 618          | rBV      | 598            | 569           | 0.04%           | 0.005%        |
| 12        | 3.186       | 648           | 652         | 658          | rVB4     | 605            | 614           | 0.04%           | 0.005%        |
| 13        | 3.270       | 675           | 678         | 683          | rBV2     | 496            | 376           | 0.03%           | 0.003%        |
| 14        | 3.427       | 723           | 727         | 729          | rBV2     | 432            | 329           | 0.02%           | 0.003%        |
| 15        | 3.540       | 757           | 762         | 764          | rBV2     | 449            | 462           | 0.03%           | 0.004%        |
| 16        | 3.575       | 768           | 773         | 777          | rBV2     | 444            | 514           | 0.03%           | 0.004%        |
| 17        | 3.643       | 790           | 794         | 797          | rVB2     | 454            | 357           | 0.02%           | 0.003%        |
| 18        | 3.665       | 797           | 801         | 807          | rBV3     | 521            | 632           | 0.04%           | 0.005%        |
| 19        | 3.733       | 819           | 822         | 826          | rVB      | 513            | 375           | 0.03%           | 0.003%        |
| 20        | 3.907       | 871           | 876         | 880          | rBV2     | 495            | 458           | 0.03%           | 0.004%        |
| 21        | 4.173       | 945           | 959         | 990          | rBV      | 146730         | 396850        | 26.88%          | 3.142%        |
| 22        | 4.395       | 1018          | 1028        | 1044         | rVB2     | 8132           | 19416         | 1.32%           | 0.154%        |
| 23        | 4.646       | 1089          | 1106        | 1133         | rBV      | 244108         | 583895        | 39.55%          | 4.623%        |
| 24        | 4.871       | 1173          | 1176        | 1178         | rBV2     | 597            | 451           | 0.03%           | 0.004%        |
| 25        | 4.948       | 1197          | 1200        | 1205         | rVB3     | 740            | 617           | 0.04%           | 0.005%        |
| 26        | 5.006       | 1214          | 1218        | 1223         | rVB3     | 647            | 583           | 0.04%           | 0.005%        |
| 27        | 5.112       | 1247          | 1251        | 1253         | rBV2     | 837            | 652           | 0.04%           | 0.005%        |
| 28        | 5.141       | 1257          | 1260        | 1264         | rVB2     | 650            | 495           | 0.03%           | 0.004%        |
| 29        | 5.173       | 1264          | 1270        | 1271         | rBV3     | 432            | 403           | 0.03%           | 0.003%        |
| 30        | 5.337       | 1296          | 1321        | 1358         | rBV2     | 494351         | 1476352       | 100.00%         | 11.688%       |
| 31        | 5.511       | 1373          | 1375        | 1378         | rVB2     | 751            | 397           | 0.03%           | 0.003%        |
| 32        | 5.717       | 1435          | 1439        | 1441         | rBV3     | 431            | 339           | 0.02%           | 0.003%        |
| 33        | 5.771       | 1454          | 1456        | 1459         | rVB2     | 605            | 344           | 0.02%           | 0.003%        |
| 34        | 5.791       | 1459          | 1462        | 1464         | rBV2     | 767            | 694           | 0.05%           | 0.005%        |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031319WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |         |        |         |
|----|--------|------|------|------|------|--------|---------|--------|---------|
| 35 | 5.884  | 1476 | 1491 | 1527 | rBV  | 528902 | 1078787 | 73.07% | 8.541%  |
| 36 | 6.193  | 1584 | 1587 | 1590 | rVB3 | 582    | 395     | 0.03%  | 0.003%  |
| 37 | 6.247  | 1601 | 1604 | 1607 | rBV4 | 619    | 463     | 0.03%  | 0.004%  |
| 38 | 6.328  | 1614 | 1629 | 1652 | rBV  | 326542 | 663726  | 44.96% | 5.255%  |
| 39 | 6.620  | 1713 | 1720 | 1721 | rBV  | 583    | 426     | 0.03%  | 0.003%  |
| 40 | 6.726  | 1747 | 1753 | 1759 | rVB2 | 538    | 629     | 0.04%  | 0.005%  |
| 41 | 6.755  | 1759 | 1762 | 1765 | rBV2 | 605    | 376     | 0.03%  | 0.003%  |
| 42 | 6.787  | 1765 | 1772 | 1775 | rBV  | 443    | 483     | 0.03%  | 0.004%  |
| 43 | 7.038  | 1845 | 1850 | 1853 | rBV2 | 325    | 330     | 0.02%  | 0.003%  |
| 44 | 7.225  | 1896 | 1908 | 1932 | rVV  | 176390 | 325587  | 22.05% | 2.578%  |
| 45 | 7.328  | 1938 | 1940 | 1946 | rVB3 | 822    | 786     | 0.05%  | 0.006%  |
| 46 | 7.382  | 1953 | 1957 | 1961 | rBV4 | 1309   | 1282    | 0.09%  | 0.010%  |
| 47 | 7.427  | 1968 | 1971 | 1974 | rBV2 | 638    | 539     | 0.04%  | 0.004%  |
| 48 | 7.450  | 1974 | 1978 | 1982 | rVV  | 1044   | 815     | 0.06%  | 0.006%  |
| 49 | 7.562  | 1999 | 2013 | 2059 | rBV  | 660332 | 1217598 | 82.47% | 9.640%  |
| 50 | 7.787  | 2080 | 2083 | 2090 | rVB  | 772    | 736     | 0.05%  | 0.006%  |
| 51 | 7.848  | 2090 | 2102 | 2128 | rBV  | 122445 | 221448  | 15.00% | 1.753%  |
| 52 | 8.012  | 2150 | 2153 | 2160 | rVB4 | 634    | 639     | 0.04%  | 0.005%  |
| 53 | 8.176  | 2192 | 2204 | 2220 | rBV  | 33499  | 65400   | 4.43%  | 0.518%  |
| 54 | 8.308  | 2234 | 2245 | 2283 | rVB  | 495060 | 883531  | 59.85% | 6.995%  |
| 55 | 8.562  | 2322 | 2324 | 2329 | rVV  | 800    | 618     | 0.04%  | 0.005%  |
| 56 | 8.717  | 2369 | 2372 | 2374 | rBV2 | 493    | 351     | 0.02%  | 0.003%  |
| 57 | 8.865  | 2413 | 2418 | 2423 | rBV2 | 420    | 423     | 0.03%  | 0.003%  |
| 58 | 8.964  | 2446 | 2449 | 2455 | rVB3 | 437    | 465     | 0.03%  | 0.004%  |
| 59 | 9.086  | 2472 | 2487 | 2517 | rBV  | 780402 | 1342869 | 90.96% | 10.632% |
| 60 | 9.321  | 2557 | 2560 | 2565 | rBV3 | 443    | 408     | 0.03%  | 0.003%  |
| 61 | 9.350  | 2565 | 2569 | 2573 | rBV2 | 865    | 707     | 0.05%  | 0.006%  |
| 62 | 9.434  | 2592 | 2595 | 2601 | rVB3 | 554    | 423     | 0.03%  | 0.003%  |
| 63 | 9.514  | 2616 | 2620 | 2624 | rBV2 | 391    | 371     | 0.03%  | 0.003%  |
| 64 | 9.540  | 2624 | 2628 | 2630 | rVV3 | 455    | 373     | 0.03%  | 0.003%  |
| 65 | 9.591  | 2639 | 2644 | 2647 | rVB3 | 489    | 402     | 0.03%  | 0.003%  |
| 66 | 9.646  | 2658 | 2661 | 2667 | rBV2 | 621    | 748     | 0.05%  | 0.006%  |
| 67 | 9.723  | 2680 | 2685 | 2690 | rBV  | 428    | 578     | 0.04%  | 0.005%  |
| 68 | 9.762  | 2694 | 2697 | 2700 | rBV2 | 545    | 339     | 0.02%  | 0.003%  |
| 69 | 9.823  | 2712 | 2716 | 2719 | rVB2 | 622    | 411     | 0.03%  | 0.003%  |
| 70 | 9.974  | 2757 | 2763 | 2765 | rBV  | 591    | 531     | 0.04%  | 0.004%  |
| 71 | 10.196 | 2823 | 2832 | 2835 | rBV2 | 394    | 527     | 0.04%  | 0.004%  |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031319WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |         |        |         |
|-----|--------|------|------|------|------|--------|---------|--------|---------|
| 72  | 10.427 | 2892 | 2904 | 2930 | rBV  | 516023 | 844398  | 57.19% | 6.685%  |
| 73  | 10.562 | 2944 | 2946 | 2950 | rVB2 | 647    | 476     | 0.03%  | 0.004%  |
| 74  | 10.610 | 2950 | 2961 | 2972 | rBV3 | 8604   | 15574   | 1.05%  | 0.123%  |
| 75  | 10.852 | 3031 | 3036 | 3038 | rBV2 | 421    | 388     | 0.03%  | 0.003%  |
| 76  | 10.864 | 3038 | 3040 | 3042 | rBV2 | 633    | 355     | 0.02%  | 0.003%  |
| 77  | 10.958 | 3065 | 3069 | 3074 | rBV3 | 524    | 594     | 0.04%  | 0.005%  |
| 78  | 11.012 | 3081 | 3086 | 3090 | rBV3 | 610    | 731     | 0.05%  | 0.006%  |
| 79  | 11.157 | 3128 | 3131 | 3135 | rVB2 | 527    | 403     | 0.03%  | 0.003%  |
| 80  | 11.180 | 3135 | 3138 | 3142 | rBV2 | 438    | 372     | 0.03%  | 0.003%  |
| 81  | 11.218 | 3147 | 3150 | 3152 | rVV2 | 461    | 340     | 0.02%  | 0.003%  |
| 82  | 11.482 | 3219 | 3232 | 3254 | rBV  | 799938 | 1276334 | 86.45% | 10.105% |
| 83  | 11.755 | 3314 | 3317 | 3322 | rBV4 | 435    | 392     | 0.03%  | 0.003%  |
| 84  | 11.787 | 3322 | 3327 | 3329 | rBV2 | 819    | 689     | 0.05%  | 0.005%  |
| 85  | 11.858 | 3336 | 3349 | 3378 | rBV  | 707519 | 1170654 | 79.29% | 9.268%  |
| 86  | 12.225 | 3460 | 3463 | 3465 | rBV2 | 851    | 559     | 0.04%  | 0.004%  |
| 87  | 12.462 | 3534 | 3537 | 3551 | rBV3 | 905    | 1645    | 0.11%  | 0.013%  |
| 88  | 12.575 | 3569 | 3572 | 3576 | rVB2 | 482    | 379     | 0.03%  | 0.003%  |
| 89  | 12.771 | 3629 | 3633 | 3639 | rBV2 | 1037   | 1299    | 0.09%  | 0.010%  |
| 90  | 12.858 | 3657 | 3660 | 3665 | rVB3 | 561    | 463     | 0.03%  | 0.004%  |
| 91  | 12.903 | 3670 | 3674 | 3677 | rBV  | 634    | 578     | 0.04%  | 0.005%  |
| 92  | 13.160 | 3750 | 3754 | 3756 | rBV2 | 550    | 467     | 0.03%  | 0.004%  |
| 93  | 13.376 | 3818 | 3821 | 3824 | rBV2 | 452    | 403     | 0.03%  | 0.003%  |
| 94  | 13.437 | 3835 | 3840 | 3846 | rBV3 | 753    | 1104    | 0.07%  | 0.009%  |
| 95  | 13.546 | 3871 | 3874 | 3877 | rBV2 | 649    | 537     | 0.04%  | 0.004%  |
| 96  | 13.739 | 3929 | 3934 | 3938 | rBV2 | 735    | 793     | 0.05%  | 0.006%  |
| 97  | 13.874 | 3973 | 3976 | 3982 | rVB3 | 527    | 548     | 0.04%  | 0.004%  |
| 98  | 14.003 | 4012 | 4016 | 4019 | rBV2 | 711    | 633     | 0.04%  | 0.005%  |
| 99  | 15.292 | 4414 | 4417 | 4419 | rBV  | 822    | 557     | 0.04%  | 0.004%  |
| 100 | 15.726 | 4549 | 4552 | 4554 | rBV2 | 891    | 618     | 0.04%  | 0.005%  |

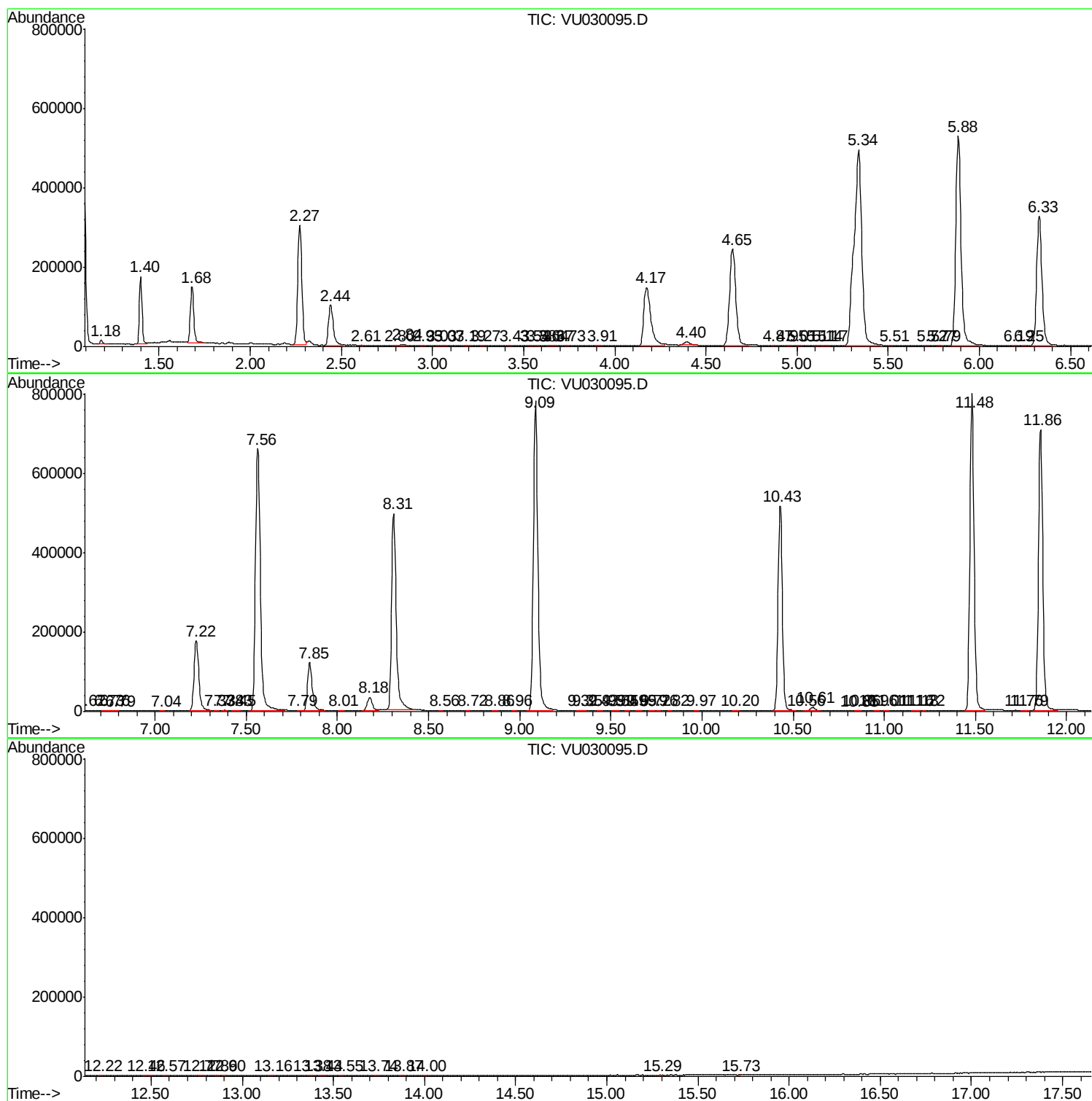
Sum of corrected areas: 12630850

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031319WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_U\DATA\VU031519\  
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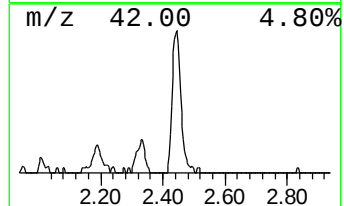
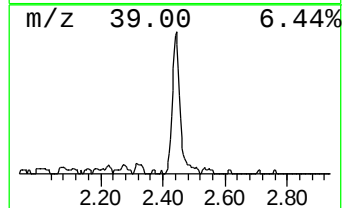
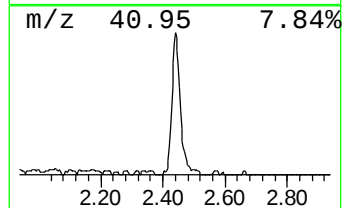
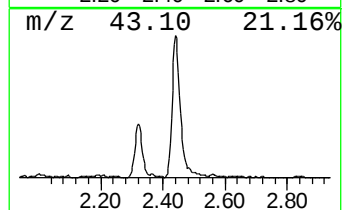
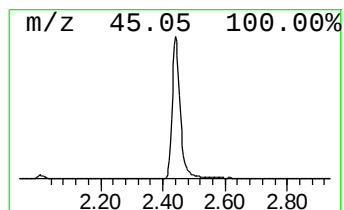
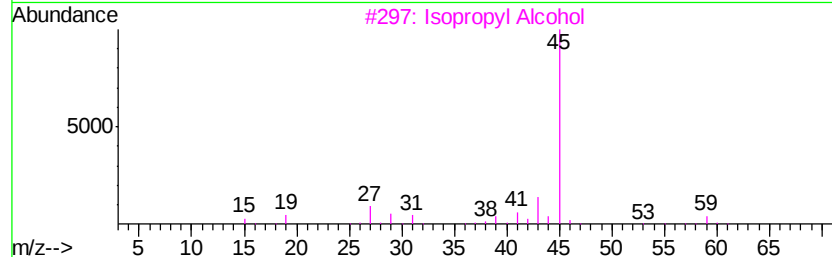
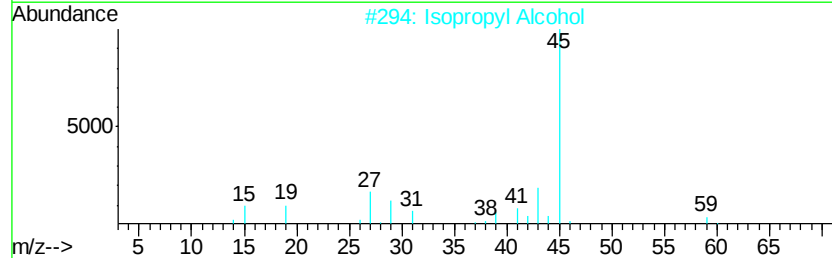
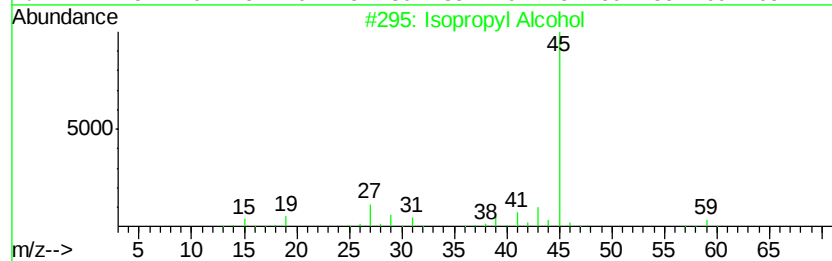
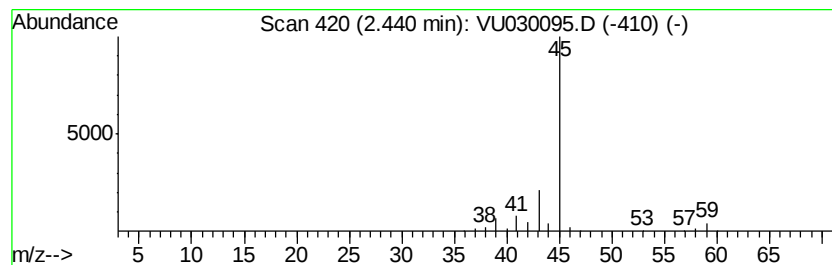
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 1 Isopropyl Alcohol Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 2.44 | 8.25 ug/L | 178083 | 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 | 56   |
| 4    |    |   | Hydrazine, ethyl-        | 60 | C2H8N2  | 000624-80-6 | 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 | 2.44 | 8.3     | ug/L  | 178083   | 1                       | 5.88 | 1078790 | 50.0 |