

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU031519\  
 Data File : VU030092.D  
 Acq On : 14 Mar 2019 22:18  
 Operator : JC/SP  
 Sample : K1918-07  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09G6

## 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          | 38           | rVB2     | 10411          | 9938          | 0.05%           | 0.027%        |
| 2         | 1.399       | 89            | 96          | 106          | rBV      | 184266         | 187828        | 0.98%           | 0.503%        |
| 3         | 1.682       | 176           | 184         | 202          | rVB      | 147750         | 194472        | 1.01%           | 0.520%        |
| 4         | 2.273       | 356           | 368         | 380          | rBV      | 306963         | 475114        | 2.48%           | 1.271%        |
| 5         | 2.379       | 399           | 401         | 404          | rBV2     | 785            | 494           | 0.00%           | 0.001%        |
| 6         | 2.440       | 409           | 420         | 444          | rBV      | 142131         | 251937        | 1.31%           | 0.674%        |
| 7         | 2.701       | 494           | 501         | 507          | rVB5     | 1784           | 2651          | 0.01%           | 0.007%        |
| 8         | 2.813       | 533           | 536         | 537          | rBV3     | 873            | 551           | 0.00%           | 0.001%        |
| 9         | 3.170       | 644           | 647         | 649          | rBV2     | 1152           | 893           | 0.00%           | 0.002%        |
| 10        | 3.186       | 649           | 652         | 659          | rVB3     | 1760           | 2227          | 0.01%           | 0.006%        |
| 11        | 3.280       | 678           | 681         | 683          | rBV      | 460            | 267           | 0.00%           | 0.001%        |
| 12        | 3.325       | 690           | 695         | 697          | rBV      | 438            | 293           | 0.00%           | 0.001%        |
| 13        | 3.386       | 709           | 714         | 715          | rBV      | 411            | 336           | 0.00%           | 0.001%        |
| 14        | 3.463       | 735           | 738         | 741          | rBV2     | 506            | 369           | 0.00%           | 0.001%        |
| 15        | 3.598       | 777           | 780         | 783          | rVB3     | 484            | 342           | 0.00%           | 0.001%        |
| 16        | 3.807       | 842           | 845         | 849          | rBV      | 384            | 350           | 0.00%           | 0.001%        |
| 17        | 3.900       | 872           | 874         | 879          | rVB2     | 383            | 266           | 0.00%           | 0.001%        |
| 18        | 3.935       | 879           | 885         | 888          | rBV3     | 664            | 492           | 0.00%           | 0.001%        |
| 19        | 3.964       | 888           | 894         | 897          | rBV      | 511            | 490           | 0.00%           | 0.001%        |
| 20        | 4.022       | 908           | 912         | 920          | rVB3     | 683            | 794           | 0.00%           | 0.002%        |
| 21        | 4.077       | 926           | 929         | 931          | rBV2     | 466            | 283           | 0.00%           | 0.001%        |
| 22        | 4.173       | 946           | 959         | 992          | rBV      | 151860         | 412621        | 2.15%           | 1.104%        |
| 23        | 4.382       | 1015          | 1024        | 1043         | rBV2     | 27954          | 65132         | 0.34%           | 0.174%        |
| 24        | 4.511       | 1062          | 1064        | 1069         | rVB2     | 791            | 472           | 0.00%           | 0.001%        |
| 25        | 4.646       | 1089          | 1106        | 1127         | rBV      | 254893         | 602966        | 3.14%           | 1.613%        |
| 26        | 4.868       | 1172          | 1175        | 1177         | rBV2     | 766            | 369           | 0.00%           | 0.001%        |
| 27        | 4.948       | 1196          | 1200        | 1202         | rBV4     | 1048           | 734           | 0.00%           | 0.002%        |
| 28        | 4.984       | 1209          | 1211        | 1213         | rBV2     | 629            | 396           | 0.00%           | 0.001%        |
| 29        | 5.112       | 1246          | 1251        | 1252         | rBV      | 414            | 306           | 0.00%           | 0.001%        |
| 30        | 5.173       | 1264          | 1270        | 1277         | rBV3     | 764            | 1084          | 0.01%           | 0.003%        |
| 31        | 5.209       | 1277          | 1281        | 1282         | rBV2     | 475            | 328           | 0.00%           | 0.001%        |
| 32        | 5.222       | 1283          | 1285        | 1290         | rVB3     | 514            | 335           | 0.00%           | 0.001%        |
| 33        | 5.251       | 1291          | 1294        | 1297         | rVB3     | 474            | 327           | 0.00%           | 0.001%        |
| 34        | 5.337       | 1297          | 1321        | 1326         | rBV2     | 526736         | 1397935       | 7.29%           | 3.741%        |

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 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

|    |       |      |      |      |      |          |          |         |         |
|----|-------|------|------|------|------|----------|----------|---------|---------|
| 35 | 5.386 | 1327 | 1336 | 1383 | rVB  | 2488376  | 5400335  | 28.16%  | 14.451% |
| 36 | 5.800 | 1458 | 1465 | 1474 | rBV8 | 1669     | 2777     | 0.01%   | 0.007%  |
| 37 | 5.884 | 1478 | 1491 | 1525 | rVV  | 562601   | 1126952  | 5.88%   | 3.016%  |
| 38 | 6.112 | 1560 | 1562 | 1568 | rBV4 | 441      | 396      | 0.00%   | 0.001%  |
| 39 | 6.189 | 1584 | 1586 | 1591 | rVV3 | 520      | 422      | 0.00%   | 0.001%  |
| 40 | 6.234 | 1595 | 1600 | 1602 | rBV3 | 384      | 337      | 0.00%   | 0.001%  |
| 41 | 6.328 | 1612 | 1629 | 1663 | rBV  | 339729   | 693835   | 3.62%   | 1.857%  |
| 42 | 6.559 | 1696 | 1701 | 1702 | rBV2 | 517      | 353      | 0.00%   | 0.001%  |
| 43 | 6.572 | 1702 | 1705 | 1708 | rVV2 | 413      | 310      | 0.00%   | 0.001%  |
| 44 | 6.636 | 1722 | 1725 | 1729 | rVV2 | 427      | 281      | 0.00%   | 0.001%  |
| 45 | 6.659 | 1729 | 1732 | 1737 | rVV3 | 533      | 459      | 0.00%   | 0.001%  |
| 46 | 6.681 | 1737 | 1739 | 1746 | rVB2 | 361      | 350      | 0.00%   | 0.001%  |
| 47 | 6.717 | 1746 | 1750 | 1754 | rBV3 | 444      | 389      | 0.00%   | 0.001%  |
| 48 | 6.823 | 1777 | 1783 | 1789 | rBV5 | 1132     | 1504     | 0.01%   | 0.004%  |
| 49 | 6.861 | 1791 | 1795 | 1796 | rBV2 | 985      | 644      | 0.00%   | 0.002%  |
| 50 | 7.009 | 1836 | 1841 | 1844 | rBV2 | 640      | 551      | 0.00%   | 0.001%  |
| 51 | 7.106 | 1868 | 1871 | 1875 | rBV  | 309      | 273      | 0.00%   | 0.001%  |
| 52 | 7.144 | 1881 | 1883 | 1888 | rVB3 | 428      | 328      | 0.00%   | 0.001%  |
| 53 | 7.177 | 1888 | 1893 | 1895 | rBV2 | 367      | 349      | 0.00%   | 0.001%  |
| 54 | 7.225 | 1895 | 1908 | 1934 | rBV  | 182196   | 337294   | 1.76%   | 0.903%  |
| 55 | 7.392 | 1949 | 1960 | 1969 | rBV9 | 3453     | 6517     | 0.03%   | 0.017%  |
| 56 | 7.479 | 1985 | 1987 | 1997 | rVB4 | 873      | 1062     | 0.01%   | 0.003%  |
| 57 | 7.562 | 1997 | 2013 | 2048 | rBV  | 703738   | 1271361  | 6.63%   | 3.402%  |
| 58 | 7.797 | 2084 | 2086 | 2090 | rVB3 | 518      | 362      | 0.00%   | 0.001%  |
| 59 | 7.849 | 2091 | 2102 | 2121 | rBV  | 125045   | 219931   | 1.15%   | 0.589%  |
| 60 | 8.176 | 2192 | 2204 | 2218 | rBV2 | 38990    | 74923    | 0.39%   | 0.200%  |
| 61 | 8.308 | 2234 | 2245 | 2286 | rVB  | 523200   | 919619   | 4.80%   | 2.461%  |
| 62 | 8.575 | 2326 | 2328 | 2332 | rBV3 | 314      | 272      | 0.00%   | 0.001%  |
| 63 | 8.627 | 2340 | 2344 | 2349 | rBV4 | 519      | 655      | 0.00%   | 0.002%  |
| 64 | 8.726 | 2372 | 2375 | 2378 | rVB2 | 725      | 461      | 0.00%   | 0.001%  |
| 65 | 8.797 | 2395 | 2397 | 2401 | rVB2 | 481      | 305      | 0.00%   | 0.001%  |
| 66 | 8.932 | 2436 | 2439 | 2443 | rBV  | 477      | 358      | 0.00%   | 0.001%  |
| 67 | 9.115 | 2470 | 2496 | 2545 | rBV  | 10650216 | 19174829 | 100.00% | 51.310% |
| 68 | 9.472 | 2605 | 2607 | 2611 | rVB  | 579      | 354      | 0.00%   | 0.001%  |
| 69 | 9.582 | 2635 | 2641 | 2644 | rBV3 | 723      | 791      | 0.00%   | 0.002%  |
| 70 | 9.652 | 2660 | 2663 | 2669 | rBV3 | 397      | 449      | 0.00%   | 0.001%  |
| 71 | 9.771 | 2696 | 2700 | 2704 | rBV3 | 498      | 406      | 0.00%   | 0.001%  |

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 C09G6

## Integration Parameters: LSCINT.P

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 Sampling : 1  
 Start Thrs: 0.2  
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 Min Area: 0 % of largest Peak  
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 Peak Location: TOP

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 Peak separation: 5

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

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 9.881  | 2732 | 2734 | 2742 | rVB  | 556    | 614     | 0.00%  | 0.002% |
| 73  | 9.932  | 2746 | 2750 | 2754 | rBV2 | 497    | 529     | 0.00%  | 0.001% |
| 74  | 10.035 | 2777 | 2782 | 2786 | rBV  | 756    | 710     | 0.00%  | 0.002% |
| 75  | 10.057 | 2786 | 2789 | 2795 | rBV3 | 352    | 377     | 0.00%  | 0.001% |
| 76  | 10.164 | 2819 | 2822 | 2826 | rBV2 | 617    | 397     | 0.00%  | 0.001% |
| 77  | 10.218 | 2833 | 2839 | 2841 | rBV2 | 731    | 626     | 0.00%  | 0.002% |
| 78  | 10.260 | 2848 | 2852 | 2859 | rVB2 | 518    | 546     | 0.00%  | 0.001% |
| 79  | 10.305 | 2863 | 2866 | 2868 | rBV2 | 470    | 340     | 0.00%  | 0.001% |
| 80  | 10.353 | 2876 | 2881 | 2883 | rBV3 | 484    | 414     | 0.00%  | 0.001% |
| 81  | 10.373 | 2883 | 2887 | 2891 | rBV2 | 498    | 372     | 0.00%  | 0.001% |
| 82  | 10.427 | 2891 | 2904 | 2925 | rBV  | 532623 | 869607  | 4.54%  | 2.327% |
| 83  | 10.537 | 2934 | 2938 | 2939 | rBV  | 401    | 308     | 0.00%  | 0.001% |
| 84  | 10.604 | 2950 | 2959 | 2974 | rVB2 | 8771   | 16021   | 0.08%  | 0.043% |
| 85  | 10.717 | 2989 | 2994 | 2998 | rBV2 | 376    | 438     | 0.00%  | 0.001% |
| 86  | 10.781 | 3009 | 3014 | 3017 | rBV3 | 470    | 489     | 0.00%  | 0.001% |
| 87  | 10.871 | 3036 | 3042 | 3043 | rBV3 | 450    | 435     | 0.00%  | 0.001% |
| 88  | 10.958 | 3066 | 3069 | 3073 | rVB  | 486    | 337     | 0.00%  | 0.001% |
| 89  | 10.993 | 3073 | 3080 | 3083 | rBV2 | 482    | 683     | 0.00%  | 0.002% |
| 90  | 11.154 | 3127 | 3130 | 3132 | rBV  | 476    | 317     | 0.00%  | 0.001% |
| 91  | 11.167 | 3132 | 3134 | 3139 | rVB2 | 639    | 408     | 0.00%  | 0.001% |
| 92  | 11.414 | 3199 | 3211 | 3220 | rBV3 | 20236  | 34169   | 0.18%  | 0.091% |
| 93  | 11.482 | 3220 | 3232 | 3265 | rVV2 | 914476 | 2173567 | 11.34% | 5.816% |
| 94  | 11.678 | 3291 | 3293 | 3297 | rBV4 | 667    | 462     | 0.00%  | 0.001% |
| 95  | 11.752 | 3313 | 3316 | 3319 | rBV4 | 1962   | 1676    | 0.01%  | 0.004% |
| 96  | 11.858 | 3336 | 3349 | 3376 | rBV2 | 771439 | 1410675 | 7.36%  | 3.775% |
| 97  | 12.131 | 3431 | 3434 | 3438 | rBV3 | 506    | 437     | 0.00%  | 0.001% |
| 98  | 12.302 | 3484 | 3487 | 3493 | rBV2 | 621    | 604     | 0.00%  | 0.002% |
| 99  | 15.086 | 4350 | 4353 | 4355 | rBV3 | 777    | 491     | 0.00%  | 0.001% |
| 100 | 15.404 | 4450 | 4452 | 4458 | rVB3 | 872    | 638     | 0.00%  | 0.002% |

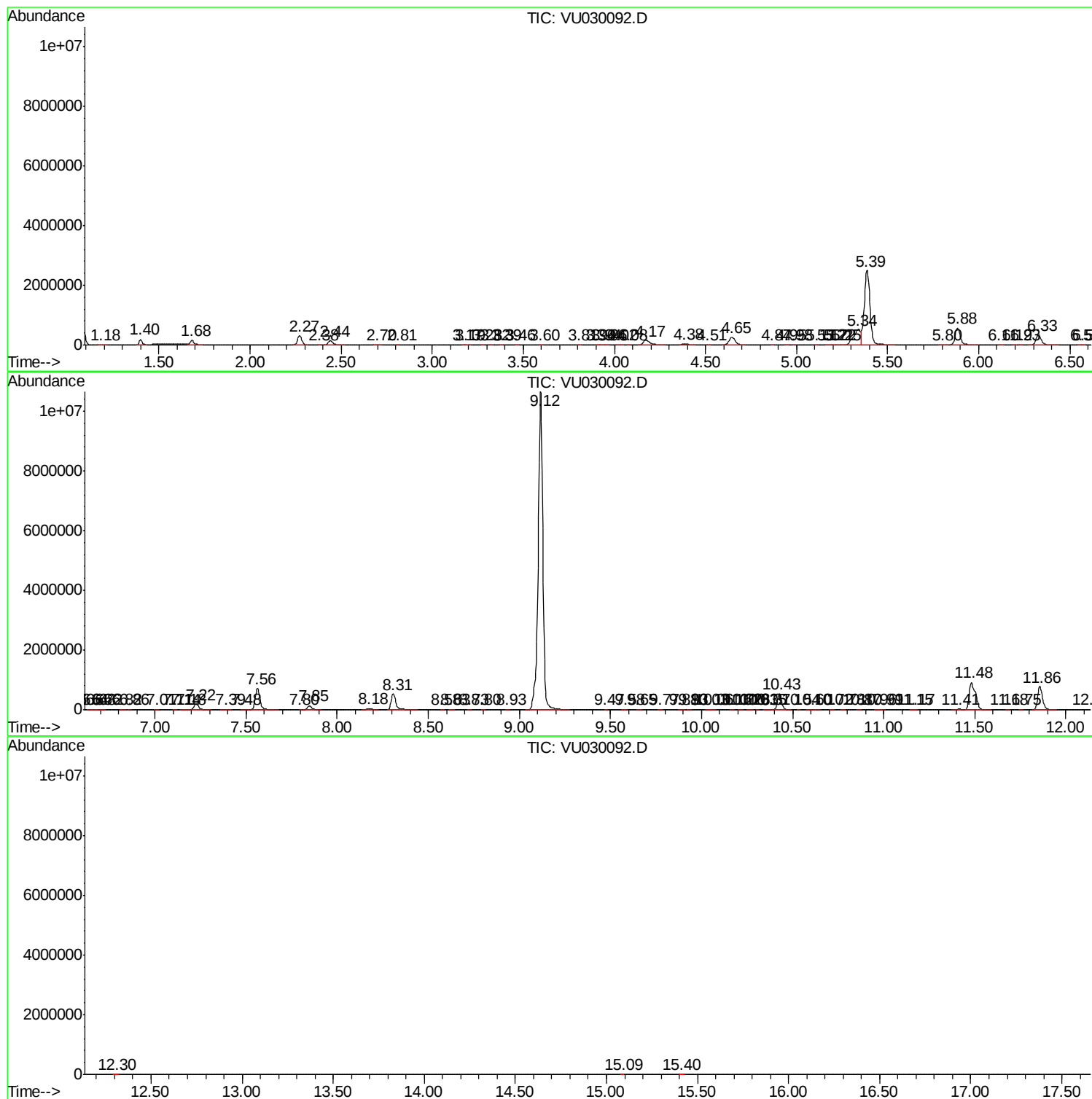
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031319WMA.M  
Quant Title : VOC Analysis

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



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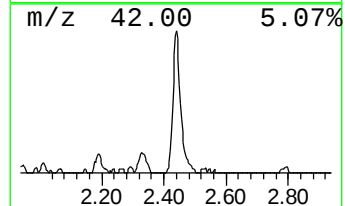
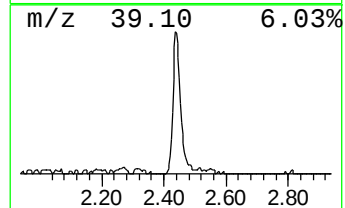
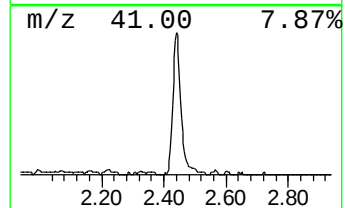
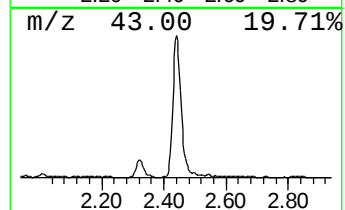
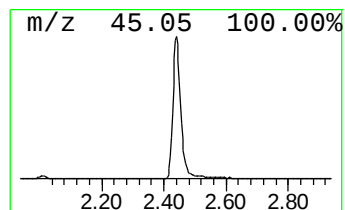
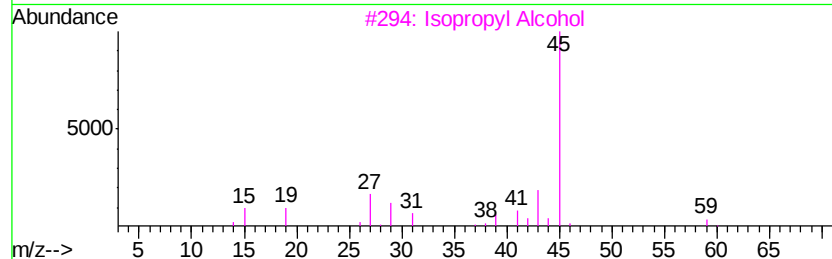
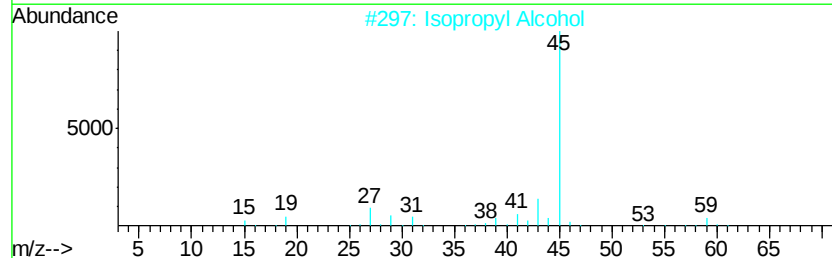
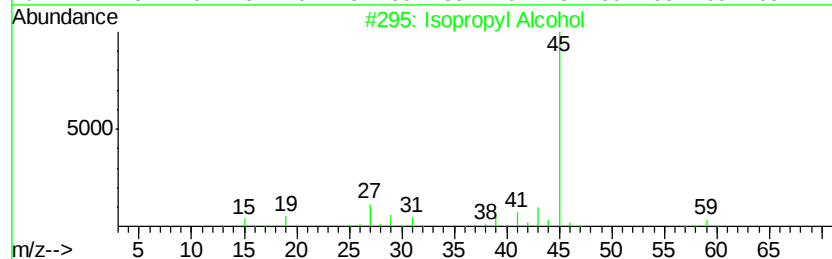
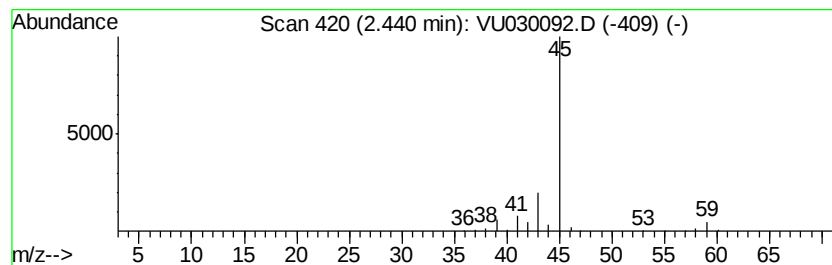
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031319WMA.M  
Quant Title : VOC Analysis

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 | 11.18 ug/L | 251937 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | 5 | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|---|-------------------|----|---------|-------------|------|
| 1    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 86   |
| 2    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 86   |
| 3    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 78   |
| 4    |    |   | Hydrazine, ethyl- | 60 | C2H8N2  | 000624-80-6 | 40   |
| 5    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 9    |



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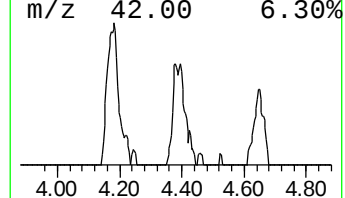
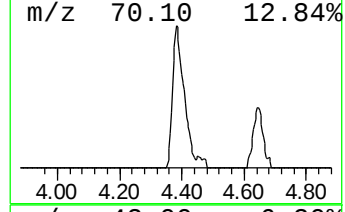
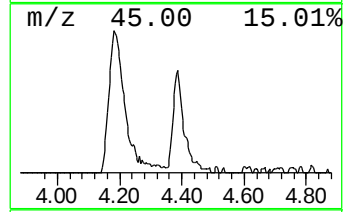
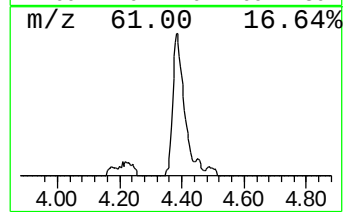
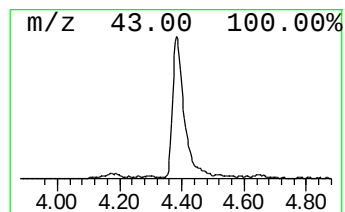
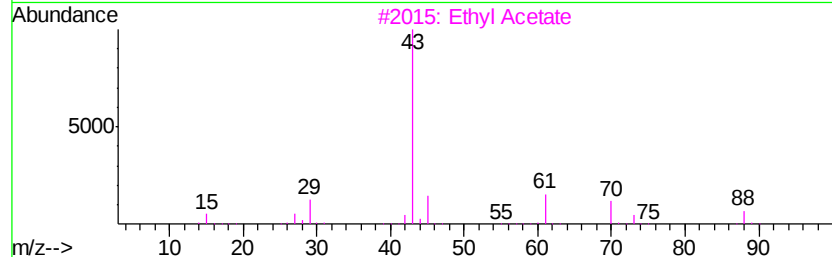
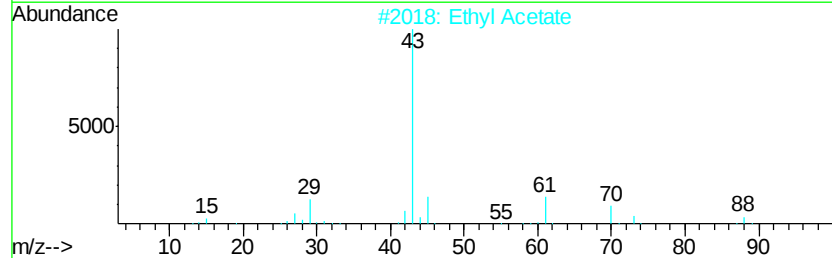
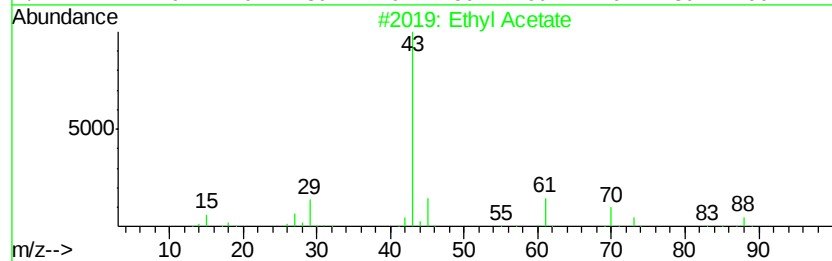
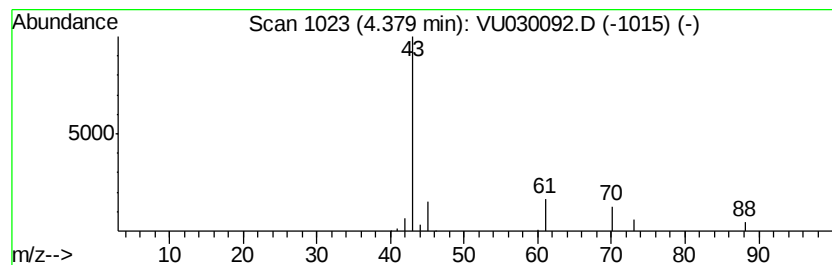
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 2 Ethyl Acetate Concentration Rank 3

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 4.38 | 2.89 ug/L | 65132 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | 5 | Tentative ID    | MW | MolForm | CAS#        | Qual |
|------|----|---|-----------------|----|---------|-------------|------|
| 1    |    |   | Ethyl Acetate   | 88 | C4H8O2  | 000141-78-6 | 90   |
| 2    |    |   | Ethyl Acetate   | 88 | C4H8O2  | 000141-78-6 | 83   |
| 3    |    |   | Ethyl Acetate   | 88 | C4H8O2  | 000141-78-6 | 83   |
| 4    |    |   | Ethyl Acetate   | 88 | C4H8O2  | 000141-78-6 | 64   |
| 5    |    |   | CH3C(O)CH2CH2OH | 88 | C4H8O2  | 000590-90-9 | 9    |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU031519\  
Data File : VU030092.D  
Acq On : 14 Mar 2019 22:18  
Operator : JC/SP  
Sample : K1918-07  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09G6

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031319WMA.M  
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 | 11.2    | ug/L  | 251937   | 1                     | 5.88 | 1126950 | 50.0 |
| Ethyl Acetate     | 4.38 | 2.9     | ug/L  | 65132    | 1                     | 5.88 | 1126950 | 50.0 |