

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091319\  
 Data File : VV012753.D  
 Acq On : 14 Sep 2019 02:50  
 Operator : SY/MD  
 Sample : K4868-10  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 COML7

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\_V\METHOD\SOMVLM091319WMA.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         | 1.318       | 64            | 71          | 81           | rVB      | 317888         | 314554        | 10.85%          | 1.445%        |
| 2         | 1.579       | 145           | 152         | 166          | rVB      | 286289         | 328113        | 11.32%          | 1.507%        |
| 3         | 2.129       | 313           | 323         | 336          | rBV      | 575255         | 808372        | 27.89%          | 3.714%        |
| 4         | 2.302       | 365           | 377         | 398          | rBV      | 140577         | 250646        | 8.65%           | 1.152%        |
| 5         | 2.537       | 447           | 450         | 459          | rVB7     | 2683           | 3280          | 0.11%           | 0.015%        |
| 6         | 2.650       | 474           | 485         | 498          | rVB2     | 9751           | 20042         | 0.69%           | 0.092%        |
| 7         | 2.753       | 514           | 517         | 519          | rVB2     | 1002           | 589           | 0.02%           | 0.003%        |
| 8         | 2.804       | 528           | 533         | 536          | rBV4     | 812            | 948           | 0.03%           | 0.004%        |
| 9         | 2.820       | 536           | 538         | 543          | rVB5     | 1172           | 865           | 0.03%           | 0.004%        |
| 10        | 2.994       | 587           | 592         | 597          | rBV7     | 1174           | 1363          | 0.05%           | 0.006%        |
| 11        | 3.071       | 612           | 616         | 619          | rBV5     | 1363           | 1210          | 0.04%           | 0.006%        |
| 12        | 3.161       | 639           | 644         | 648          | rVV4     | 770            | 837           | 0.03%           | 0.004%        |
| 13        | 3.187       | 650           | 652         | 656          | rVB3     | 967            | 615           | 0.02%           | 0.003%        |
| 14        | 3.238       | 663           | 668         | 670          | rBV2     | 1209           | 1055          | 0.04%           | 0.005%        |
| 15        | 3.582       | 769           | 775         | 777          | rBV5     | 628            | 583           | 0.02%           | 0.003%        |
| 16        | 3.598       | 777           | 780         | 785          | rVV3     | 797            | 621           | 0.02%           | 0.003%        |
| 17        | 3.624       | 785           | 788         | 792          | rVB5     | 728            | 668           | 0.02%           | 0.003%        |
| 18        | 3.650       | 792           | 796         | 801          | rBV6     | 783            | 816           | 0.03%           | 0.004%        |
| 19        | 3.704       | 809           | 813         | 818          | rBV5     | 561            | 564           | 0.02%           | 0.003%        |
| 20        | 3.807       | 843           | 845         | 849          | rVB3     | 940            | 745           | 0.03%           | 0.003%        |
| 21        | 3.833       | 849           | 853         | 854          | rBV2     | 923            | 708           | 0.02%           | 0.003%        |
| 22        | 3.859       | 859           | 861         | 866          | rVB4     | 826            | 577           | 0.02%           | 0.003%        |
| 23        | 3.923       | 867           | 881         | 914          | rBV      | 288577         | 785977        | 27.11%          | 3.611%        |
| 24        | 4.306       | 997           | 1000        | 1003         | rBV4     | 936            | 588           | 0.02%           | 0.003%        |
| 25        | 4.399       | 1009          | 1029        | 1056         | rBV      | 512009         | 1244293       | 42.92%          | 5.717%        |
| 26        | 4.614       | 1092          | 1096        | 1100         | rBV5     | 1267           | 1080          | 0.04%           | 0.005%        |
| 27        | 4.640       | 1101          | 1104        | 1107         | rVV4     | 1276           | 979           | 0.03%           | 0.004%        |
| 28        | 4.669       | 1110          | 1113        | 1118         | rVB6     | 1359           | 959           | 0.03%           | 0.004%        |
| 29        | 4.765       | 1140          | 1143        | 1148         | rBV5     | 569            | 598           | 0.02%           | 0.003%        |
| 30        | 4.810       | 1154          | 1157        | 1160         | rVB3     | 1289           | 869           | 0.03%           | 0.004%        |
| 31        | 4.833       | 1160          | 1164        | 1165         | rBV3     | 1559           | 876           | 0.03%           | 0.004%        |
| 32        | 4.936       | 1189          | 1196        | 1198         | rBV5     | 992            | 1062          | 0.04%           | 0.005%        |
| 33        | 4.978       | 1205          | 1209        | 1211         | rBV3     | 864            | 625           | 0.02%           | 0.003%        |
| 34        | 5.093       | 1226          | 1245        | 1273         | rBV2     | 1129091        | 2898834       | 100.00%         | 13.318%       |

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 MSVOA\_V  
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## 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\_V\METHOD\SOMVLM091319WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |        |         |
|----|--------|------|------|------|------|---------|---------|--------|---------|
| 35 | 5.450  | 1354 | 1356 | 1358 | rVB3 | 1180    | 546     | 0.02%  | 0.003%  |
| 36 | 5.511  | 1372 | 1375 | 1376 | rBV2 | 980     | 558     | 0.02%  | 0.003%  |
| 37 | 5.662  | 1407 | 1422 | 1448 | rBV  | 861310  | 1695416 | 58.49% | 7.789%  |
| 38 | 5.945  | 1498 | 1510 | 1530 | rBV  | 128239  | 259899  | 8.97%  | 1.194%  |
| 39 | 6.035  | 1536 | 1538 | 1541 | rVB4 | 1147    | 546     | 0.02%  | 0.003%  |
| 40 | 6.116  | 1548 | 1563 | 1587 | rBV  | 717983  | 1437022 | 49.57% | 6.602%  |
| 41 | 6.437  | 1659 | 1663 | 1666 | rBV5 | 1020    | 1057    | 0.04%  | 0.005%  |
| 42 | 6.485  | 1674 | 1678 | 1679 | rBV2 | 724     | 536     | 0.02%  | 0.002%  |
| 43 | 6.595  | 1709 | 1712 | 1715 | rVB2 | 901     | 526     | 0.02%  | 0.002%  |
| 44 | 6.646  | 1715 | 1728 | 1729 | rBV5 | 5957    | 7112    | 0.25%  | 0.033%  |
| 45 | 6.756  | 1760 | 1762 | 1768 | rVB3 | 586     | 491     | 0.02%  | 0.002%  |
| 46 | 6.881  | 1798 | 1801 | 1804 | rVB2 | 679     | 506     | 0.02%  | 0.002%  |
| 47 | 7.029  | 1833 | 1847 | 1869 | rBV  | 336046  | 602421  | 20.78% | 2.768%  |
| 48 | 7.180  | 1884 | 1894 | 1905 | rBV9 | 6811    | 15388   | 0.53%  | 0.071%  |
| 49 | 7.360  | 1935 | 1950 | 1986 | rBV  | 1238353 | 2183297 | 75.32% | 10.031% |
| 50 | 7.662  | 2032 | 2044 | 2064 | rBV  | 238572  | 405204  | 13.98% | 1.862%  |
| 51 | 7.833  | 2095 | 2097 | 2102 | rVB4 | 925     | 575     | 0.02%  | 0.003%  |
| 52 | 7.871  | 2107 | 2109 | 2111 | rVV3 | 1014    | 457     | 0.02%  | 0.002%  |
| 53 | 7.920  | 2121 | 2124 | 2126 | rBV3 | 1145    | 741     | 0.03%  | 0.003%  |
| 54 | 8.019  | 2150 | 2155 | 2157 | rBV4 | 1582    | 1518    | 0.05%  | 0.007%  |
| 55 | 8.129  | 2178 | 2189 | 2223 | rBV2 | 718916  | 1549121 | 53.44% | 7.117%  |
| 56 | 8.521  | 2307 | 2311 | 2317 | rVB6 | 1420    | 1234    | 0.04%  | 0.006%  |
| 57 | 8.566  | 2323 | 2325 | 2329 | rVB3 | 1121    | 716     | 0.02%  | 0.003%  |
| 58 | 8.691  | 2361 | 2364 | 2366 | rBV3 | 963     | 568     | 0.02%  | 0.003%  |
| 59 | 8.723  | 2371 | 2374 | 2378 | rBV5 | 958     | 861     | 0.03%  | 0.004%  |
| 60 | 8.781  | 2390 | 2392 | 2396 | rVB3 | 934     | 497     | 0.02%  | 0.002%  |
| 61 | 8.894  | 2412 | 2427 | 2451 | rBV  | 1255883 | 2061537 | 71.12% | 9.471%  |
| 62 | 9.093  | 2486 | 2489 | 2490 | rBV2 | 1372    | 705     | 0.02%  | 0.003%  |
| 63 | 9.125  | 2494 | 2499 | 2504 | rBV7 | 955     | 1197    | 0.04%  | 0.005%  |
| 64 | 9.170  | 2509 | 2513 | 2515 | rBV4 | 1047    | 816     | 0.03%  | 0.004%  |
| 65 | 9.543  | 2626 | 2629 | 2631 | rVB3 | 1134    | 633     | 0.02%  | 0.003%  |
| 66 | 9.579  | 2636 | 2640 | 2643 | rBV4 | 1690    | 1623    | 0.06%  | 0.007%  |
| 67 | 9.653  | 2658 | 2663 | 2665 | rBV5 | 1108    | 836     | 0.03%  | 0.004%  |
| 68 | 9.810  | 2707 | 2712 | 2714 | rVV3 | 514     | 479     | 0.02%  | 0.002%  |
| 69 | 10.013 | 2771 | 2775 | 2778 | rBV4 | 634     | 448     | 0.02%  | 0.002%  |
| 70 | 10.048 | 2780 | 2786 | 2788 | rBV4 | 919     | 784     | 0.03%  | 0.004%  |
| 71 | 10.128 | 2808 | 2811 | 2812 | rBV  | 932     | 545     | 0.02%  | 0.003%  |

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Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 COML7

## Integration Parameters: LSCINT.P

Integrator: RTE  
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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

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM091319WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 10.257 | 2838 | 2851 | 2874 | rBV  | 833737  | 1326178 | 45.75% | 6.093% |
| 73  | 10.392 | 2890 | 2893 | 2896 | rBV2 | 1016    | 784     | 0.03%  | 0.004% |
| 74  | 10.418 | 2896 | 2901 | 2902 | rBV5 | 1552    | 1425    | 0.05%  | 0.007% |
| 75  | 10.598 | 2955 | 2957 | 2959 | rBV2 | 1064    | 608     | 0.02%  | 0.003% |
| 76  | 10.717 | 2989 | 2994 | 2996 | rBV2 | 658     | 710     | 0.02%  | 0.003% |
| 77  | 10.781 | 3012 | 3014 | 3019 | rVB3 | 782     | 519     | 0.02%  | 0.002% |
| 78  | 10.833 | 3025 | 3030 | 3031 | rBV3 | 672     | 568     | 0.02%  | 0.003% |
| 79  | 10.890 | 3044 | 3048 | 3049 | rBV3 | 1262    | 794     | 0.03%  | 0.004% |
| 80  | 11.116 | 3114 | 3118 | 3121 | rVB2 | 1042    | 904     | 0.03%  | 0.004% |
| 81  | 11.209 | 3141 | 3147 | 3148 | rBV3 | 1983    | 1747    | 0.06%  | 0.008% |
| 82  | 11.228 | 3150 | 3153 | 3160 | rVB7 | 3586    | 3379    | 0.12%  | 0.016% |
| 83  | 11.292 | 3160 | 3173 | 3192 | rBV  | 953474  | 1499571 | 51.73% | 6.890% |
| 84  | 11.508 | 3236 | 3240 | 3243 | rVV5 | 1223    | 1067    | 0.04%  | 0.005% |
| 85  | 11.543 | 3247 | 3251 | 3257 | rBV7 | 793     | 783     | 0.03%  | 0.004% |
| 86  | 11.669 | 3273 | 3290 | 3315 | rBV  | 1274888 | 1996247 | 68.86% | 9.171% |
| 87  | 11.903 | 3360 | 3363 | 3365 | rBV2 | 880     | 549     | 0.02%  | 0.003% |
| 88  | 11.990 | 3388 | 3390 | 3394 | rVB3 | 990     | 529     | 0.02%  | 0.002% |
| 89  | 12.257 | 3470 | 3473 | 3476 | rBV3 | 594     | 593     | 0.02%  | 0.003% |
| 90  | 12.588 | 3572 | 3576 | 3579 | rBV3 | 819     | 583     | 0.02%  | 0.003% |
| 91  | 12.694 | 3605 | 3609 | 3610 | rBV3 | 781     | 536     | 0.02%  | 0.002% |
| 92  | 12.720 | 3615 | 3617 | 3622 | rVV3 | 747     | 594     | 0.02%  | 0.003% |
| 93  | 12.913 | 3674 | 3677 | 3680 | rBV2 | 846     | 595     | 0.02%  | 0.003% |
| 94  | 12.961 | 3689 | 3692 | 3694 | rBV2 | 678     | 541     | 0.02%  | 0.002% |
| 95  | 13.186 | 3760 | 3762 | 3766 | rBV3 | 1235    | 758     | 0.03%  | 0.003% |
| 96  | 13.312 | 3795 | 3801 | 3810 | rVB4 | 7132    | 9995    | 0.34%  | 0.046% |
| 97  | 13.443 | 3839 | 3842 | 3844 | rBV3 | 743     | 517     | 0.02%  | 0.002% |
| 98  | 13.800 | 3947 | 3953 | 3957 | rBV5 | 1797    | 2194    | 0.08%  | 0.010% |
| 99  | 14.064 | 4033 | 4035 | 4038 | rBV3 | 800     | 553     | 0.02%  | 0.003% |
| 100 | 14.897 | 4291 | 4294 | 4298 | rBV3 | 1218    | 1193    | 0.04%  | 0.005% |

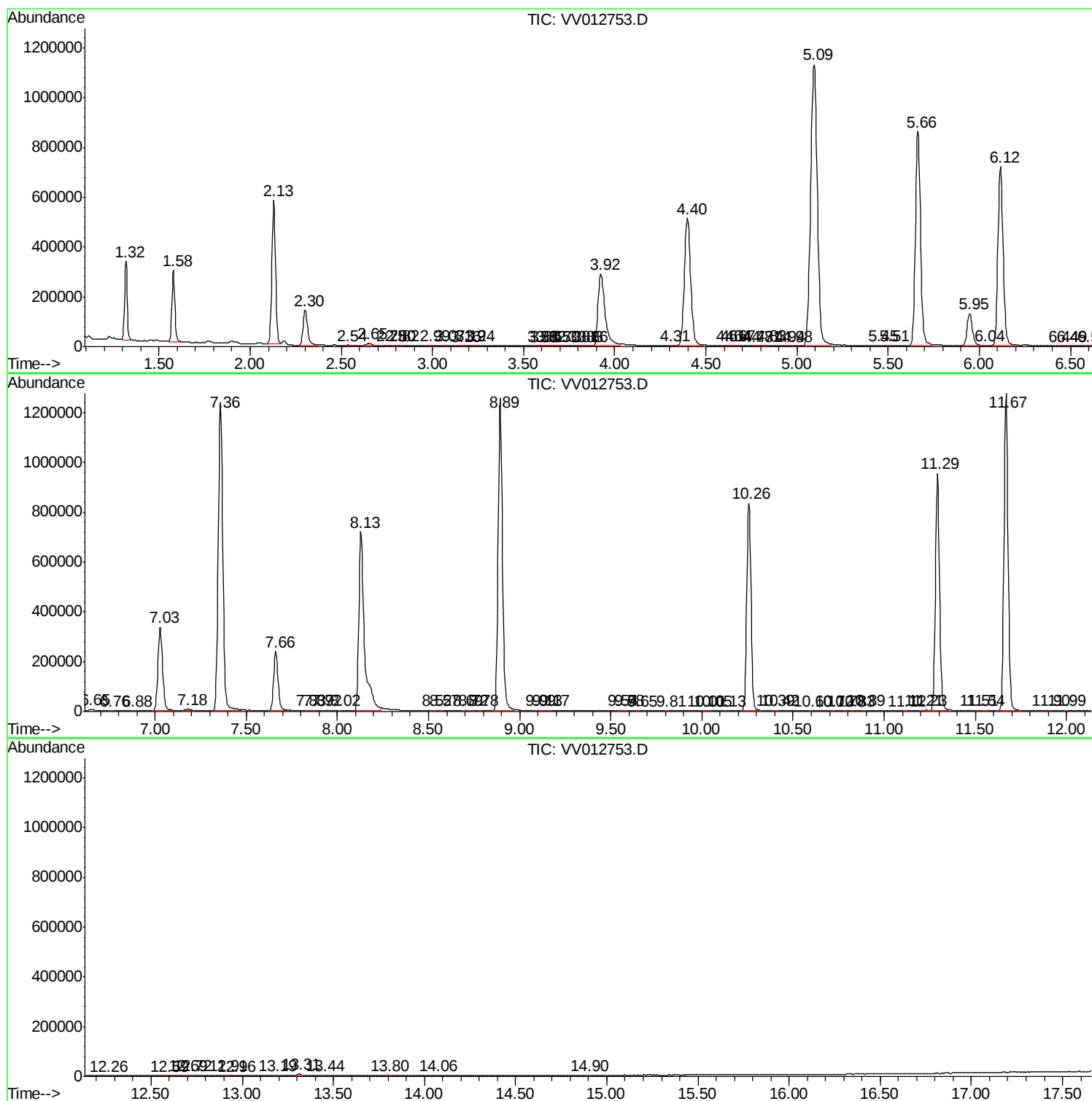
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Instrument :  
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ClientSampled :  
COML7

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM091319WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV091319\  
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Instrument :  
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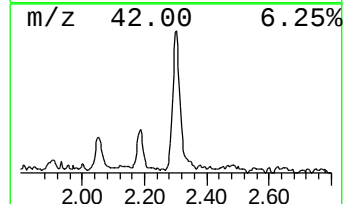
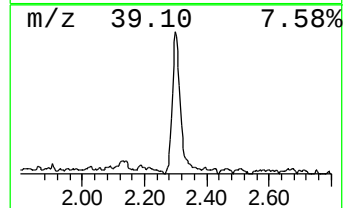
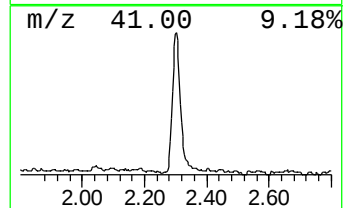
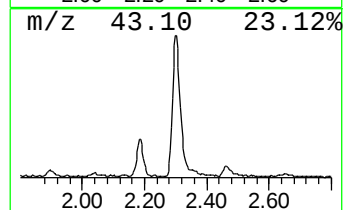
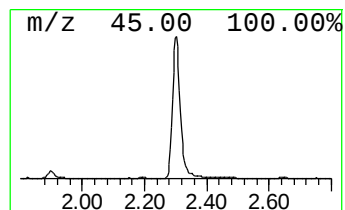
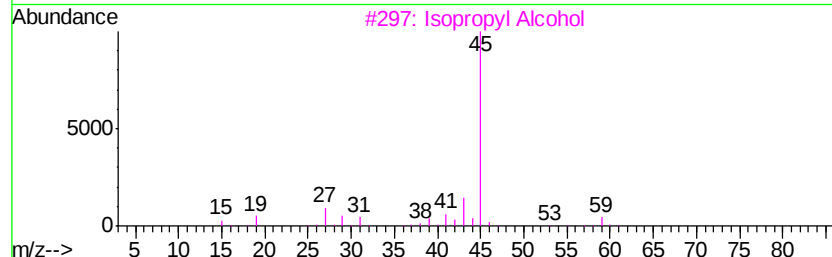
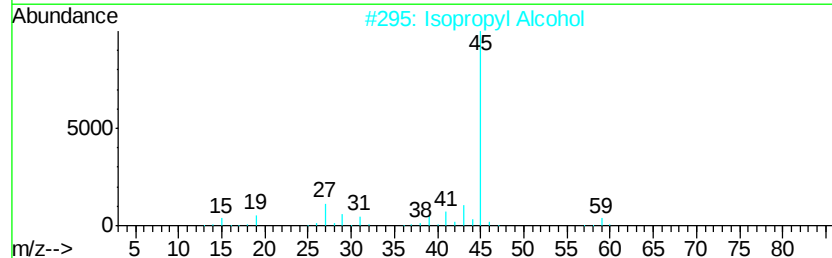
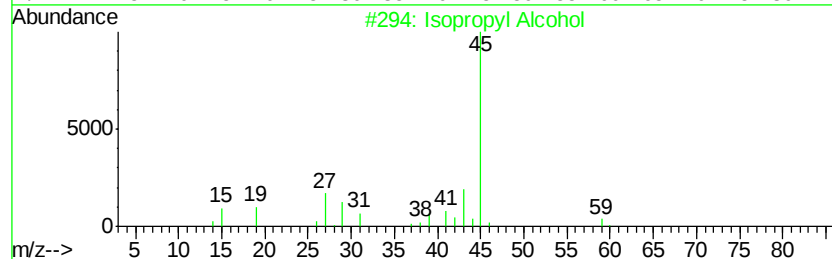
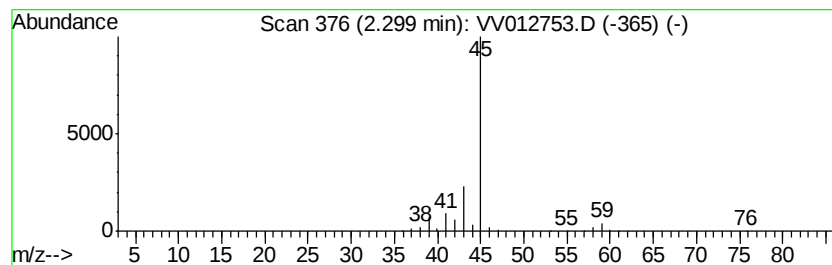
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM091319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 1 Isopropyl Alcohol Concentration Rank 3

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 2.30 | 7.39 ug/L | 250646 | 1,4-Difluorobenzene | 5.66 |

| Hit# | of | Tentative ID             | MW | MolForm | CAS#        | Qual |
|------|----|--------------------------|----|---------|-------------|------|
| 1    | 5  | 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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Quant Title : VOC Analysis

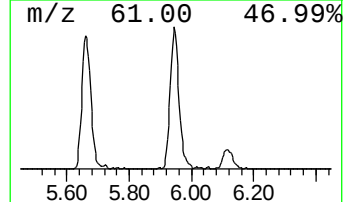
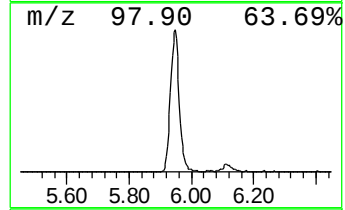
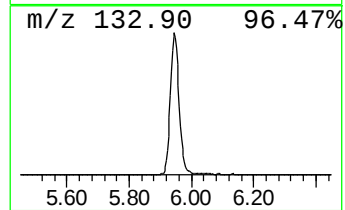
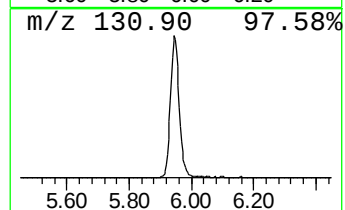
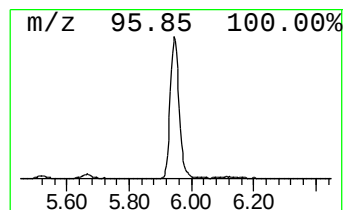
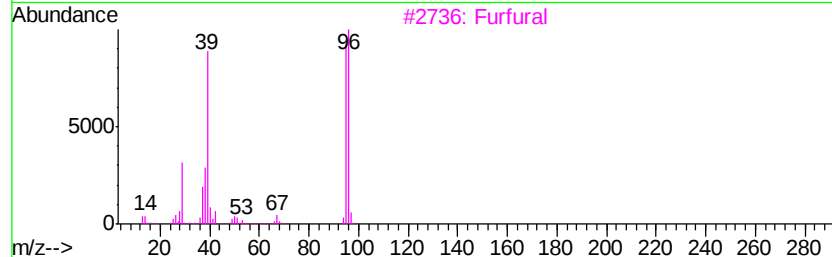
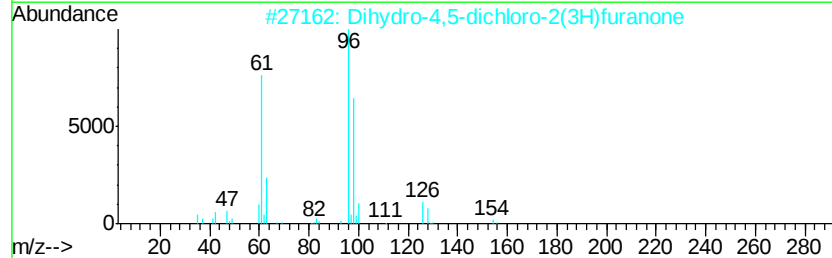
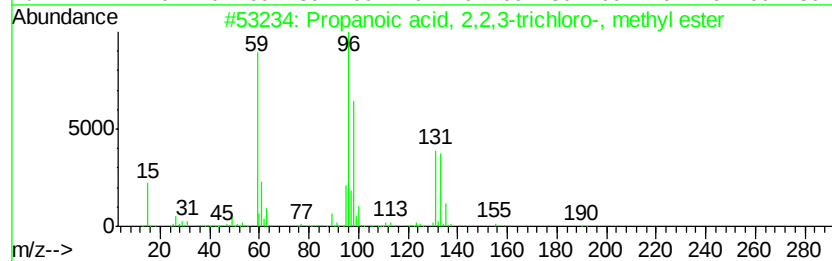
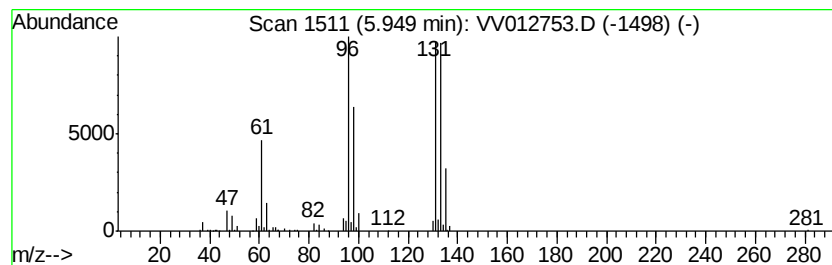
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Propanoic acid, 2,2,3-trich... Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 5.95 | 7.66 ug/L | 259899 | 1,4-Difluorobenzene | 5.66 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Propanoic acid, 2,2,3-trichloro-... | 190 | C4H5Cl3O2 | 004749-35-3 | 56   |
| 2    |    | Dihydro-4,5-dichloro-2(3H)furanone  | 154 | C4H4Cl2O2 | 114434-99-0 | 25   |
| 3    |    | Furfural                            | 96  | C5H4O2    | 000098-01-1 | 9    |
| 4    |    | 4H-Pyran-4-one                      | 96  | C5H4O2    | 000108-97-4 | 9    |
| 5    |    | 4(1H)-Pyrimidinone                  | 96  | C4H4N2O   | 004562-27-0 | 9    |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV091319\  
Data File : VV012753.D  
Acq On : 14 Sep 2019 02:50  
Operator : SY/MD  
Sample : K4868-10  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
COML7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM091319WMA.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    | 2.30 | 7.4     | ug/L  | 250646   | 1                     | 5.66 | 1695420 | 50.0 |
| Propanoic acid, 2... | 5.95 | 7.7     | ug/L  | 259899   | 1                     | 5.66 | 1695420 | 50.0 |