

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030620\  
 Data File : VU037125.D  
 Acq On : 06 Mar 2020 21:35  
 Operator : JC/MD  
 Sample : L1834-09  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0DK0

## 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\SOMULM022420WMA.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         | 1.485       | 37            | 45          | 63           | rBV      | 32765          | 76719         | 7.71%           | 1.013%        |
| 2         | 1.613       | 79            | 85          | 97           | rVB      | 125926         | 135959        | 13.66%          | 1.794%        |
| 3         | 1.932       | 176           | 184         | 206          | rVB      | 118251         | 153703        | 15.44%          | 2.029%        |
| 4         | 2.594       | 378           | 390         | 404          | rBV      | 191818         | 317128        | 31.86%          | 4.186%        |
| 5         | 2.723       | 428           | 430         | 434          | rBV2     | 323            | 234           | 0.02%           | 0.003%        |
| 6         | 2.787       | 439           | 450         | 465          | rBV      | 15427          | 30030         | 3.02%           | 0.396%        |
| 7         | 2.996       | 512           | 515         | 517          | rVB      | 193            | 108           | 0.01%           | 0.001%        |
| 8         | 3.141       | 556           | 560         | 564          | rVB2     | 419            | 306           | 0.03%           | 0.004%        |
| 9         | 3.221       | 570           | 585         | 604          | rVB      | 22888          | 51773         | 5.20%           | 0.683%        |
| 10        | 3.388       | 633           | 637         | 640          | rBV      | 189            | 128           | 0.01%           | 0.002%        |
| 11        | 3.407       | 640           | 643         | 647          | rVB2     | 241            | 177           | 0.02%           | 0.002%        |
| 12        | 3.459       | 656           | 659         | 664          | rVB2     | 256            | 198           | 0.02%           | 0.003%        |
| 13        | 3.546       | 683           | 686         | 687          | rBV      | 181            | 109           | 0.01%           | 0.001%        |
| 14        | 3.655       | 716           | 720         | 723          | rBV2     | 277            | 194           | 0.02%           | 0.003%        |
| 15        | 3.690       | 727           | 731         | 734          | rBV2     | 145            | 115           | 0.01%           | 0.002%        |
| 16        | 3.771       | 749           | 756         | 760          | rVB2     | 264            | 354           | 0.04%           | 0.005%        |
| 17        | 3.890       | 791           | 793         | 796          | rBV      | 224            | 148           | 0.01%           | 0.002%        |
| 18        | 3.980       | 818           | 821         | 823          | rBV2     | 236            | 157           | 0.02%           | 0.002%        |
| 19        | 4.089       | 853           | 855         | 859          | rBV2     | 197            | 139           | 0.01%           | 0.002%        |
| 20        | 4.298       | 917           | 920         | 923          | rVB2     | 175            | 120           | 0.01%           | 0.002%        |
| 21        | 4.362       | 937           | 940         | 942          | rBV      | 211            | 132           | 0.01%           | 0.002%        |
| 22        | 4.427       | 955           | 960         | 963          | rVB2     | 190            | 180           | 0.02%           | 0.002%        |
| 23        | 4.456       | 967           | 969         | 975          | rVB      | 172            | 119           | 0.01%           | 0.002%        |
| 24        | 4.510       | 983           | 986         | 989          | rVB2     | 287            | 206           | 0.02%           | 0.003%        |
| 25        | 4.542       | 992           | 996         | 1000         | rBV2     | 164            | 166           | 0.02%           | 0.002%        |
| 26        | 4.565       | 1000          | 1003        | 1007         | rVB      | 184            | 125           | 0.01%           | 0.002%        |
| 27        | 4.600       | 1011          | 1014        | 1017         | rVB2     | 261            | 187           | 0.02%           | 0.002%        |
| 28        | 4.668       | 1017          | 1035        | 1055         | rBV      | 104743         | 253331        | 25.45%          | 3.344%        |
| 29        | 4.848       | 1081          | 1091        | 1108         | rVB      | 15400          | 32293         | 3.24%           | 0.426%        |
| 30        | 5.018       | 1140          | 1144        | 1146         | rBV2     | 375            | 249           | 0.03%           | 0.003%        |
| 31        | 5.105       | 1151          | 1171        | 1189         | rBV      | 171429         | 371743        | 37.35%          | 4.906%        |
| 32        | 5.279       | 1223          | 1225        | 1227         | rVB      | 253            | 121           | 0.01%           | 0.002%        |
| 33        | 5.321       | 1234          | 1238        | 1243         | rBV3     | 434            | 403           | 0.04%           | 0.005%        |
| 34        | 5.378       | 1253          | 1256        | 1258         | rBV2     | 292            | 212           | 0.02%           | 0.003%        |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030620\  
 Data File : VU037125.D  
 Acq On : 06 Mar 2020 21:35  
 Operator : JC/MD  
 Sample : L1834-09  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0DK0

## 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\SOMULM022420WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |        |        |         |         |
|----|-------|------|------|------|------|--------|--------|---------|---------|
| 35 | 5.411 | 1263 | 1266 | 1269 | rVB  | 199    | 115    | 0.01%   | 0.002%  |
| 36 | 5.472 | 1280 | 1285 | 1287 | rBV  | 122    | 127    | 0.01%   | 0.002%  |
| 37 | 5.488 | 1287 | 1290 | 1293 | rVB2 | 218    | 145    | 0.01%   | 0.002%  |
| 38 | 5.507 | 1293 | 1296 | 1298 | rBV  | 207    | 130    | 0.01%   | 0.002%  |
| 39 | 5.552 | 1307 | 1310 | 1318 | rVB  | 239    | 252    | 0.03%   | 0.003%  |
| 40 | 5.597 | 1318 | 1324 | 1327 | rBV  | 122    | 127    | 0.01%   | 0.002%  |
| 41 | 5.623 | 1327 | 1332 | 1335 | rBV2 | 166    | 174    | 0.02%   | 0.002%  |
| 42 | 5.674 | 1345 | 1348 | 1353 | rVB2 | 207    | 180    | 0.02%   | 0.002%  |
| 43 | 5.761 | 1354 | 1375 | 1402 | rBV2 | 373607 | 995370 | 100.00% | 13.138% |
| 44 | 6.025 | 1454 | 1457 | 1463 | rBV3 | 316    | 334    | 0.03%   | 0.004%  |
| 45 | 6.153 | 1492 | 1497 | 1498 | rBV  | 340    | 247    | 0.02%   | 0.003%  |
| 46 | 6.282 | 1522 | 1537 | 1555 | rBV  | 345641 | 642607 | 64.56%  | 8.482%  |
| 47 | 6.504 | 1603 | 1606 | 1610 | rVB2 | 241    | 189    | 0.02%   | 0.002%  |
| 48 | 6.568 | 1618 | 1626 | 1636 | rVB7 | 1898   | 3727   | 0.37%   | 0.049%  |
| 49 | 6.665 | 1653 | 1656 | 1658 | rBV  | 162    | 113    | 0.01%   | 0.001%  |
| 50 | 6.722 | 1660 | 1674 | 1693 | rVV  | 229058 | 445123 | 44.72%  | 5.875%  |
| 51 | 6.829 | 1702 | 1707 | 1717 | rBV4 | 612    | 1182   | 0.12%   | 0.016%  |
| 52 | 6.880 | 1721 | 1723 | 1726 | rVB2 | 359    | 222    | 0.02%   | 0.003%  |
| 53 | 6.899 | 1726 | 1729 | 1731 | rBV  | 240    | 154    | 0.02%   | 0.002%  |
| 54 | 6.957 | 1744 | 1747 | 1753 | rVB  | 320    | 273    | 0.03%   | 0.004%  |
| 55 | 7.044 | 1768 | 1774 | 1777 | rBV  | 331    | 263    | 0.03%   | 0.003%  |
| 56 | 7.066 | 1777 | 1781 | 1783 | rBV2 | 219    | 172    | 0.02%   | 0.002%  |
| 57 | 7.150 | 1804 | 1807 | 1810 | rVB2 | 257    | 161    | 0.02%   | 0.002%  |
| 58 | 7.182 | 1814 | 1817 | 1818 | rBV  | 248    | 140    | 0.01%   | 0.002%  |
| 59 | 7.208 | 1818 | 1825 | 1832 | rVB3 | 1810   | 2690   | 0.27%   | 0.036%  |
| 60 | 7.308 | 1854 | 1856 | 1860 | rVB2 | 252    | 145    | 0.01%   | 0.002%  |
| 61 | 7.333 | 1860 | 1864 | 1868 | rVB2 | 267    | 265    | 0.03%   | 0.003%  |
| 62 | 7.356 | 1868 | 1871 | 1876 | rBV  | 291    | 235    | 0.02%   | 0.003%  |
| 63 | 7.468 | 1900 | 1906 | 1910 | rBV2 | 193    | 245    | 0.02%   | 0.003%  |
| 64 | 7.513 | 1917 | 1920 | 1924 | rBV2 | 205    | 143    | 0.01%   | 0.002%  |
| 65 | 7.594 | 1932 | 1945 | 1964 | rBV  | 115316 | 202917 | 20.39%  | 2.678%  |
| 66 | 7.706 | 1975 | 1980 | 1988 | rBV3 | 1105   | 1449   | 0.15%   | 0.019%  |
| 67 | 7.925 | 2033 | 2048 | 2067 | rBV  | 435519 | 759853 | 76.34%  | 10.029% |
| 68 | 8.205 | 2122 | 2135 | 2152 | rBV  | 79117  | 135418 | 13.60%  | 1.787%  |
| 69 | 8.488 | 2220 | 2223 | 2224 | rBV  | 437    | 206    | 0.02%   | 0.003%  |
| 70 | 8.658 | 2263 | 2276 | 2320 | rBV  | 224753 | 477282 | 47.95%  | 6.299%  |
| 71 | 8.976 | 2370 | 2375 | 2379 | rBV2 | 256    | 297    | 0.03%   | 0.004%  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030620\  
 Data File : VU037125.D  
 Acq On : 06 Mar 2020 21:35  
 Operator : JC/MD  
 Sample : L1834-09  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0DK0

## 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\SOMULM022420WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |         |
|-----|--------|------|------|------|------|--------|--------|--------|---------|
| 72  | 9.115  | 2415 | 2418 | 2423 | rBV2 | 252    | 266    | 0.03%  | 0.004%  |
| 73  | 9.182  | 2436 | 2439 | 2441 | rBV  | 225    | 148    | 0.01%  | 0.002%  |
| 74  | 9.256  | 2457 | 2462 | 2465 | rBV2 | 193    | 177    | 0.02%  | 0.002%  |
| 75  | 9.333  | 2482 | 2486 | 2488 | rBV2 | 237    | 190    | 0.02%  | 0.003%  |
| 76  | 9.439  | 2505 | 2519 | 2554 | rVB  | 474223 | 828085 | 83.19% | 10.930% |
| 77  | 9.597  | 2565 | 2568 | 2570 | rBV  | 188    | 124    | 0.01%  | 0.002%  |
| 78  | 9.729  | 2607 | 2609 | 2612 | rBV  | 172    | 128    | 0.01%  | 0.002%  |
| 79  | 9.951  | 2675 | 2678 | 2683 | rBV  | 169    | 169    | 0.02%  | 0.002%  |
| 80  | 10.198 | 2752 | 2755 | 2759 | rVB2 | 356    | 282    | 0.03%  | 0.004%  |
| 81  | 10.227 | 2759 | 2764 | 2767 | rBV  | 225    | 281    | 0.03%  | 0.004%  |
| 82  | 10.298 | 2780 | 2786 | 2788 | rBV  | 273    | 303    | 0.03%  | 0.004%  |
| 83  | 10.391 | 2810 | 2815 | 2819 | rBV2 | 293    | 305    | 0.03%  | 0.004%  |
| 84  | 10.423 | 2823 | 2825 | 2828 | rBV2 | 170    | 113    | 0.01%  | 0.001%  |
| 85  | 10.507 | 2843 | 2851 | 2854 | rBV2 | 276    | 421    | 0.04%  | 0.006%  |
| 86  | 10.565 | 2863 | 2869 | 2874 | rBV2 | 248    | 443    | 0.04%  | 0.006%  |
| 87  | 10.632 | 2887 | 2890 | 2898 | rBV2 | 169    | 213    | 0.02%  | 0.003%  |
| 88  | 10.703 | 2909 | 2912 | 2915 | rBV2 | 172    | 127    | 0.01%  | 0.002%  |
| 89  | 10.774 | 2922 | 2934 | 2953 | rBV  | 291330 | 474511 | 47.67% | 6.263%  |
| 90  | 11.169 | 3051 | 3057 | 3059 | rBV  | 241    | 277    | 0.03%  | 0.004%  |
| 91  | 11.269 | 3083 | 3088 | 3092 | rBV  | 317    | 357    | 0.04%  | 0.005%  |
| 92  | 11.410 | 3130 | 3132 | 3136 | rVB2 | 197    | 153    | 0.02%  | 0.002%  |
| 93  | 11.436 | 3137 | 3140 | 3145 | rBV2 | 252    | 233    | 0.02%  | 0.003%  |
| 94  | 11.549 | 3169 | 3175 | 3181 | rVB2 | 222    | 303    | 0.03%  | 0.004%  |
| 95  | 11.584 | 3181 | 3186 | 3188 | rBV2 | 252    | 255    | 0.03%  | 0.003%  |
| 96  | 11.761 | 3235 | 3241 | 3250 | rBV5 | 1789   | 2442   | 0.25%  | 0.032%  |
| 97  | 11.828 | 3250 | 3262 | 3280 | rVB  | 350243 | 594787 | 59.76% | 7.850%  |
| 98  | 11.922 | 3288 | 3291 | 3295 | rBV2 | 260    | 293    | 0.03%  | 0.004%  |
| 99  | 12.208 | 3368 | 3380 | 3395 | rBV  | 332555 | 570988 | 57.36% | 7.536%  |
| 100 | 14.362 | 4047 | 4050 | 4051 | rBV  | 451    | 236    | 0.02%  | 0.003%  |

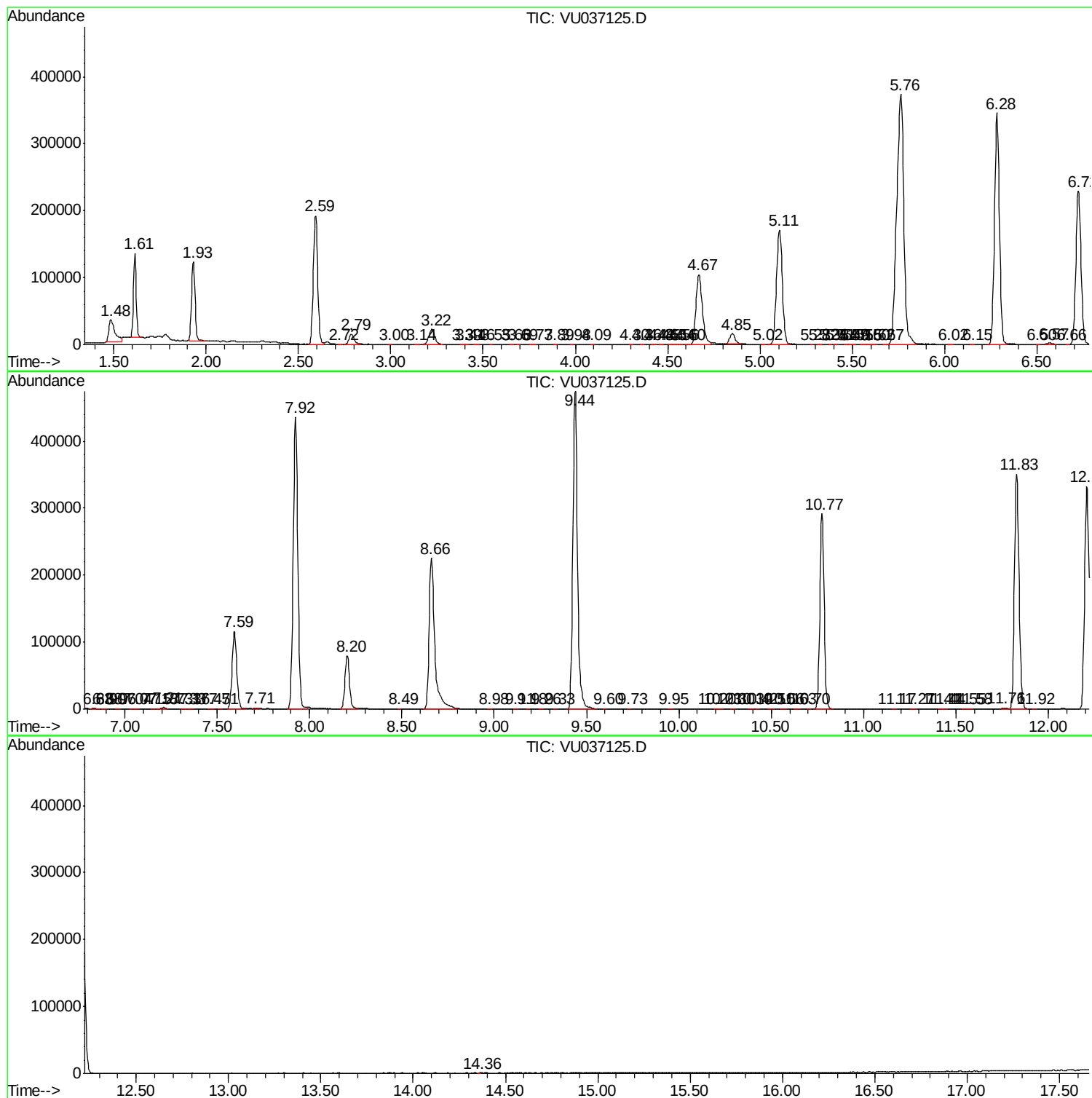
Sum of corrected areas: 7576548

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU030620\  
Data File : VU037125.D  
Acq On : 06 Mar 2020 21:35  
Operator : JC/MD  
Sample : L1834-09  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0DK0

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU030620\  
Data File : VU037125.D  
Acq On : 06 Mar 2020 21:35  
Operator : JC/MD  
Sample : L1834-09  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 29 Sample Multiplier: 1

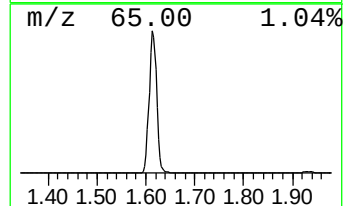
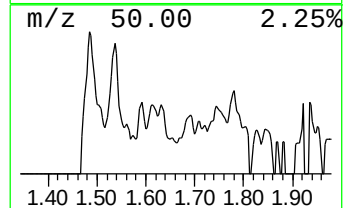
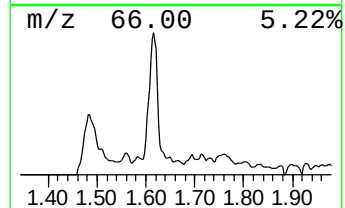
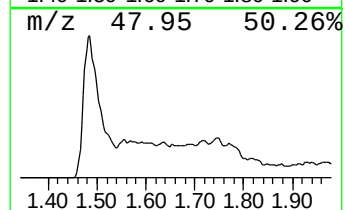
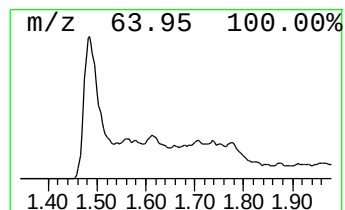
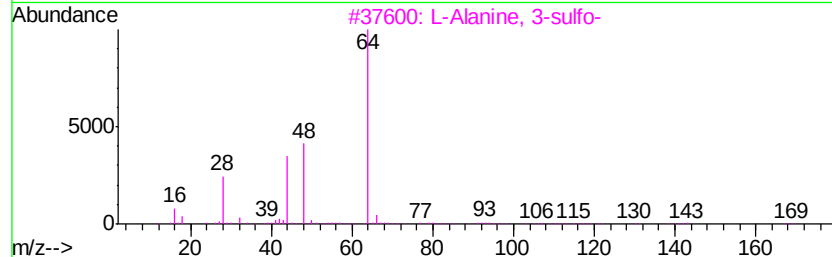
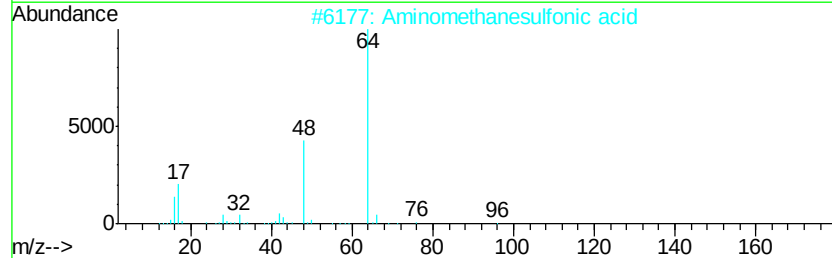
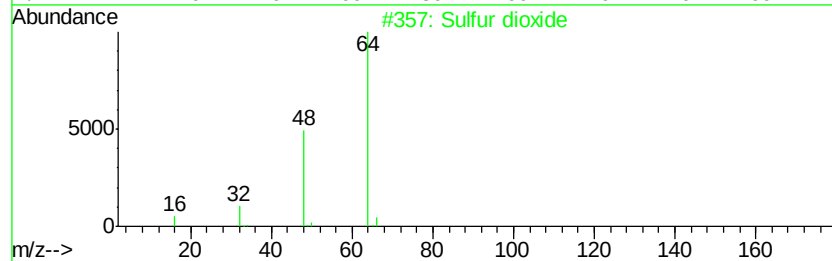
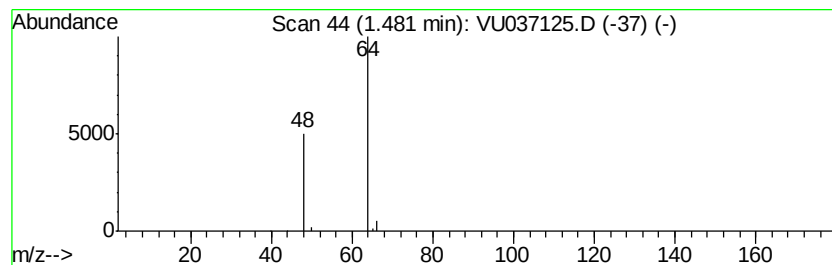
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0DK0

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 1 Sulfur dioxide Concentration Rank 2

| R.T.    | EstConc   | Area                      | Relative to ISTD    | R.T.           |
|---------|-----------|---------------------------|---------------------|----------------|
| 1.48    | 5.97 ug/L | 76719                     | 1,4-Difluorobenzene | 6.28           |
| Hit# of | 5         | Tentative ID              | MW MolForm          | CAS# Qual      |
| 1       |           | Sulfur dioxide            | 64 O2S              | 007446-09-5 90 |
| 2       |           | Aminomethanesulfonic acid | 111 CH5NO3S         | 013881-91-9 64 |
| 3       |           | L-Alanine, 3-sulfo-       | 169 C3H7NO5S        | 000498-40-8 9  |
| 4       |           | Ethene, 1,1-difluoro-     | 64 C2H2F2           | 000075-38-7 5  |
| 5       |           | Aminomethanesulfonic acid | 111 CH5NO3S         | 013881-91-9 4  |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU030620\  
Data File : VU037125.D  
Acq On : 06 Mar 2020 21:35  
Operator : JC/MD  
Sample : L1834-09  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0DK0

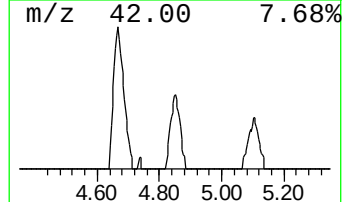
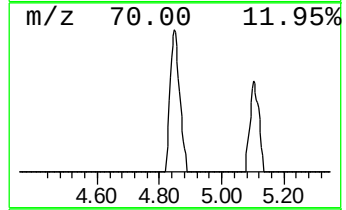
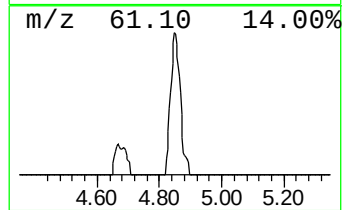
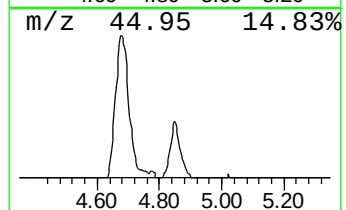
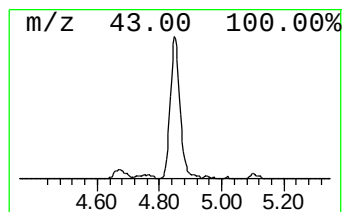
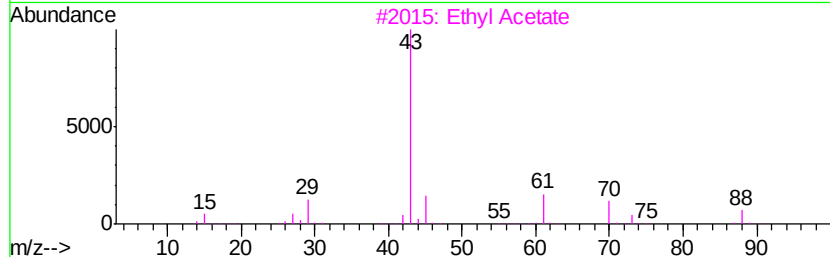
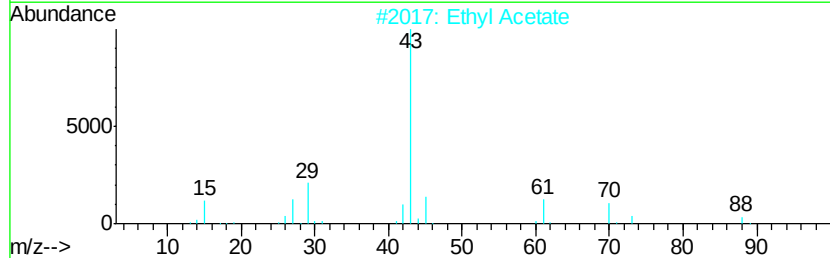
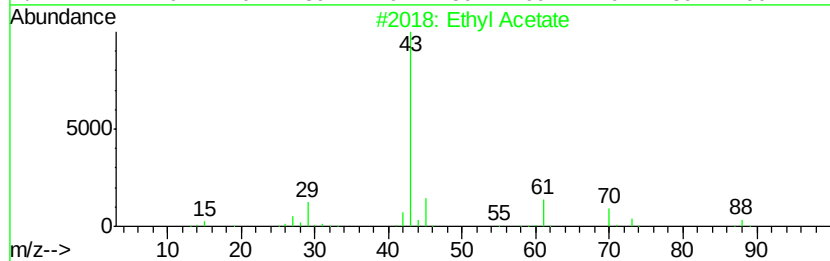
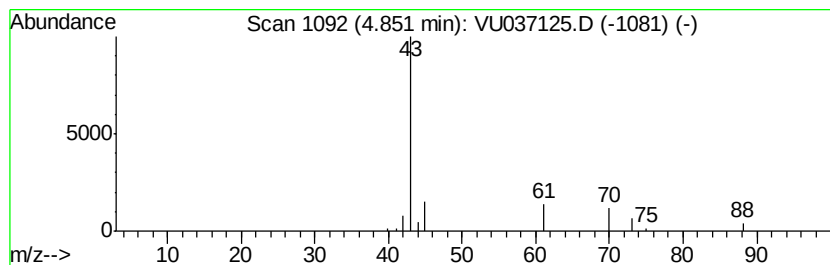
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 3 Ethyl Acetate Concentration Rank 4

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 4.85 | 2.51 ug/L | 32293 | 1,4-Difluorobenzene | 6.28 |

| 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 | 83   |
| 5    |    |   | CH3C(O)CH2CH2OH | 88 | C4H8O2  | 000590-90-9 | 45   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU030620\  
Data File : VU037125.D  
Acq On : 06 Mar 2020 21:35  
Operator : JC/MD  
Sample : L1834-09  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0DK0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.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 |
| Sulfur dioxide   | 1.48 | 6.0     | ug/L  | 76719    | 1                     | 6.28 | 642607 | 50.0 |
| Ethyl Acetate    | 4.85 | 2.5     | ug/L  | 32293    | 1                     | 6.28 | 642607 | 50.0 |