

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102218\  
 Data File : VU027739.D  
 Acq On : 22 Oct 2018 13:45  
 Operator : MD/SY  
 Sample : J5589-09  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0T30

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\SOMULM102218WMA.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      | 1.398    | 64         | 70       | 81        | rBV   | 67163       | 66042      | 14.25%       | 1.597%     |
| 2      | 1.681    | 151        | 158      | 178       | rVB   | 46398       | 62327      | 13.45%       | 1.508%     |
| 3      | 1.887    | 215        | 222      | 236       | rVB   | 47441       | 64578      | 13.94%       | 1.562%     |
| 4      | 2.273    | 333        | 342      | 355       | rVB   | 98284       | 148306     | 32.01%       | 3.587%     |
| 5      | 2.447    | 385        | 396      | 412       | rBV   | 12417       | 22386      | 4.83%        | 0.541%     |
| 6      | 2.556    | 427        | 430      | 434       | rVB   | 204         | 117        | 0.03%        | 0.003%     |
| 7      | 2.836    | 512        | 517      | 521       | rBV2  | 411         | 531        | 0.11%        | 0.013%     |
| 8      | 2.945    | 548        | 551      | 554       | rBV   | 132         | 100        | 0.02%        | 0.002%     |
| 9      | 3.054    | 583        | 585      | 587       | rBV   | 70          | 36         | 0.01%        | 0.001%     |
| 10     | 3.250    | 642        | 646      | 649       | rBV2  | 239         | 207        | 0.04%        | 0.005%     |
| 11     | 3.299    | 658        | 661      | 664       | rBV   | 167         | 142        | 0.03%        | 0.003%     |
| 12     | 3.395    | 688        | 691      | 694       | rBV2  | 214         | 199        | 0.04%        | 0.005%     |
| 13     | 3.443    | 704        | 706      | 710       | rVB   | 91          | 52         | 0.01%        | 0.001%     |
| 14     | 3.617    | 757        | 760      | 761       | rBV   | 170         | 75         | 0.02%        | 0.002%     |
| 15     | 4.006    | 877        | 881      | 884       | rBV   | 99          | 93         | 0.02%        | 0.002%     |
| 16     | 4.058    | 893        | 897      | 904       | rBV   | 88          | 93         | 0.02%        | 0.002%     |
| 17     | 4.090    | 904        | 907      | 909       | rBV   | 49          | 34         | 0.01%        | 0.001%     |
| 18     | 4.125    | 915        | 918      | 919       | rBV   | 91          | 53         | 0.01%        | 0.001%     |
| 19     | 4.180    | 919        | 935      | 958       | rBV   | 48280       | 131324     | 28.34%       | 3.176%     |
| 20     | 4.453    | 1018       | 1020     | 1024      | rBV   | 59          | 47         | 0.01%        | 0.001%     |
| 21     | 4.649    | 1065       | 1081     | 1103      | rBV   | 76084       | 179264     | 38.69%       | 4.336%     |
| 22     | 5.045    | 1201       | 1204     | 1206      | rBV   | 144         | 104        | 0.02%        | 0.003%     |
| 23     | 5.189    | 1248       | 1249     | 1250      | rBV   | 114         | 26         | 0.01%        | 0.001%     |
| 24     | 5.202    | 1250       | 1253     | 1255      | rBB   | 82          | 46         | 0.01%        | 0.001%     |
| 25     | 5.212    | 1255       | 1256     | 1257      | rBV   | 88          | 32         | 0.01%        | 0.001%     |
| 26     | 5.241    | 1263       | 1265     | 1267      | rBV   | 141         | 58         | 0.01%        | 0.001%     |
| 27     | 5.263    | 1269       | 1272     | 1273      | rVV   | 105         | 59         | 0.01%        | 0.001%     |
| 28     | 5.344    | 1273       | 1297     | 1324      | rVV2  | 156938      | 463326     | 100.00%      | 11.207%    |
| 29     | 5.495    | 1340       | 1344     | 1350      | rVB2  | 180         | 144        | 0.03%        | 0.003%     |
| 30     | 5.524    | 1350       | 1353     | 1355      | rBV   | 73          | 41         | 0.01%        | 0.001%     |
| 31     | 5.582    | 1368       | 1371     | 1373      | rBV   | 71          | 47         | 0.01%        | 0.001%     |
| 32     | 5.649    | 1388       | 1392     | 1397      | rBV   | 57          | 52         | 0.01%        | 0.001%     |
| 33     | 5.672    | 1397       | 1399     | 1401      | rBV   | 59          | 34         | 0.01%        | 0.001%     |
| 34     | 5.684    | 1401       | 1403     | 1406      | rVV   | 60          | 35         | 0.01%        | 0.001%     |

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 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 C0T30

## 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\SOMULM102218WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |        |        |        |         |
|----|-------|------|------|------|------|--------|--------|--------|---------|
| 35 | 5.887 | 1453 | 1466 | 1489 | rBV  | 142498 | 281317 | 60.72% | 6.804%  |
| 36 | 6.054 | 1515 | 1518 | 1520 | rBV  | 51     | 35     | 0.01%  | 0.001%  |
| 37 | 6.189 | 1550 | 1560 | 1575 | rVB  | 12539  | 23070  | 4.98%  | 0.558%  |
| 38 | 6.247 | 1576 | 1578 | 1582 | rBV  | 146    | 66     | 0.01%  | 0.002%  |
| 39 | 6.334 | 1591 | 1605 | 1625 | rBV2 | 106377 | 213629 | 46.11% | 5.167%  |
| 40 | 6.488 | 1651 | 1653 | 1655 | rVB  | 139    | 75     | 0.02%  | 0.002%  |
| 41 | 6.524 | 1655 | 1664 | 1667 | rBV  | 145    | 156    | 0.03%  | 0.004%  |
| 42 | 6.598 | 1685 | 1687 | 1690 | rBV  | 56     | 42     | 0.01%  | 0.001%  |
| 43 | 6.665 | 1704 | 1708 | 1713 | rVB  | 103    | 93     | 0.02%  | 0.002%  |
| 44 | 6.691 | 1713 | 1716 | 1717 | rBV  | 38     | 20     | 0.00%  | 0.000%  |
| 45 | 6.707 | 1718 | 1721 | 1723 | rBV  | 87     | 63     | 0.01%  | 0.002%  |
| 46 | 6.784 | 1741 | 1745 | 1748 | rBV  | 120    | 124    | 0.03%  | 0.003%  |
| 47 | 6.823 | 1754 | 1757 | 1761 | rBV  | 120    | 99     | 0.02%  | 0.002%  |
| 48 | 6.861 | 1764 | 1769 | 1786 | rVB3 | 968    | 1856   | 0.40%  | 0.045%  |
| 49 | 6.971 | 1801 | 1803 | 1804 | rBV  | 35     | 17     | 0.00%  | 0.000%  |
| 50 | 6.983 | 1804 | 1807 | 1810 | rVV  | 94     | 59     | 0.01%  | 0.001%  |
| 51 | 7.022 | 1817 | 1819 | 1822 | rVB  | 62     | 29     | 0.01%  | 0.001%  |
| 52 | 7.048 | 1823 | 1827 | 1829 | rBV  | 79     | 57     | 0.01%  | 0.001%  |
| 53 | 7.135 | 1851 | 1854 | 1856 | rBV  | 97     | 63     | 0.01%  | 0.002%  |
| 54 | 7.228 | 1872 | 1883 | 1902 | rBV  | 64806  | 114252 | 24.66% | 2.764%  |
| 55 | 7.376 | 1928 | 1929 | 1931 | rVB  | 137    | 28     | 0.01%  | 0.001%  |
| 56 | 7.395 | 1932 | 1935 | 1939 | rVB2 | 236    | 146    | 0.03%  | 0.004%  |
| 57 | 7.565 | 1974 | 1988 | 2008 | rBV  | 209128 | 362509 | 78.24% | 8.768%  |
| 58 | 7.717 | 2034 | 2035 | 2038 | rVB  | 106    | 54     | 0.01%  | 0.001%  |
| 59 | 7.758 | 2044 | 2048 | 2052 | rBV  | 73     | 67     | 0.01%  | 0.002%  |
| 60 | 7.852 | 2065 | 2077 | 2097 | rBV  | 45400  | 78181  | 16.87% | 1.891%  |
| 61 | 7.926 | 2097 | 2100 | 2104 | rBV  | 375    | 232    | 0.05%  | 0.006%  |
| 62 | 8.122 | 2159 | 2161 | 2165 | rVB  | 151    | 54     | 0.01%  | 0.001%  |
| 63 | 8.183 | 2166 | 2180 | 2183 | rBV2 | 13906  | 21880  | 4.72%  | 0.529%  |
| 64 | 8.228 | 2185 | 2194 | 2209 | rVV  | 228670 | 416303 | 89.85% | 10.069% |
| 65 | 8.311 | 2212 | 2220 | 2252 | rVB  | 163424 | 282193 | 60.91% | 6.826%  |
| 66 | 8.511 | 2280 | 2282 | 2286 | rBV  | 136    | 80     | 0.02%  | 0.002%  |
| 67 | 8.533 | 2286 | 2289 | 2293 | rBV  | 81     | 70     | 0.02%  | 0.002%  |
| 68 | 8.617 | 2313 | 2315 | 2317 | rBV  | 76     | 38     | 0.01%  | 0.001%  |
| 69 | 8.662 | 2327 | 2329 | 2333 | rVB  | 202    | 101    | 0.02%  | 0.002%  |
| 70 | 8.697 | 2333 | 2340 | 2344 | rBV  | 114    | 157    | 0.03%  | 0.004%  |
| 71 | 8.781 | 2363 | 2366 | 2369 | rBV  | 81     | 60     | 0.01%  | 0.001%  |

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 Peak Location: TOP

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM102218WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 72 | 8.861  | 2387 | 2391 | 2397 | rBV  | 89     | 94     | 0.02%  | 0.002% |
| 73 | 8.919  | 2406 | 2409 | 2412 | rBV  | 83     | 65     | 0.01%  | 0.002% |
| 74 | 8.967  | 2421 | 2424 | 2426 | rBV  | 125    | 91     | 0.02%  | 0.002% |
| 75 | 8.999  | 2431 | 2434 | 2436 | rBV  | 72     | 49     | 0.01%  | 0.001% |
| 76 | 9.089  | 2450 | 2462 | 2484 | rBV  | 202892 | 337599 | 72.86% | 8.166% |
| 77 | 9.257  | 2512 | 2514 | 2515 | rBV  | 140    | 60     | 0.01%  | 0.001% |
| 78 | 9.385  | 2552 | 2554 | 2557 | rVB2 | 179    | 98     | 0.02%  | 0.002% |
| 79 | 9.408  | 2557 | 2561 | 2565 | rVB  | 158    | 148    | 0.03%  | 0.004% |
| 80 | 9.475  | 2579 | 2582 | 2584 | rBV  | 92     | 55     | 0.01%  | 0.001% |
| 81 | 9.694  | 2646 | 2650 | 2654 | rVB  | 137    | 126    | 0.03%  | 0.003% |
| 82 | 9.723  | 2654 | 2659 | 2662 | rBV  | 61     | 59     | 0.01%  | 0.001% |
| 83 | 9.742  | 2662 | 2665 | 2666 | rBV  | 97     | 53     | 0.01%  | 0.001% |
| 84 | 10.115 | 2778 | 2781 | 2784 | rVB  | 129    | 75     | 0.02%  | 0.002% |
| 85 | 10.433 | 2867 | 2880 | 2896 | rVB  | 134262 | 214433 | 46.28% | 5.187% |
| 86 | 10.617 | 2927 | 2937 | 2953 | rVB2 | 11185  | 20773  | 4.48%  | 0.502% |
| 87 | 10.848 | 3007 | 3009 | 3011 | rBV  | 153    | 62     | 0.01%  | 0.001% |
| 88 | 10.877 | 3011 | 3018 | 3029 | rVB3 | 601    | 1130   | 0.24%  | 0.027% |
| 89 | 10.922 | 3029 | 3032 | 3033 | rBV  | 145    | 84     | 0.02%  | 0.002% |
| 90 | 11.482 | 3195 | 3206 | 3228 | rBV  | 190538 | 297176 | 64.14% | 7.188% |
| 91 | 11.626 | 3249 | 3251 | 3255 | rBV  | 168    | 77     | 0.02%  | 0.002% |
| 92 | 11.761 | 3286 | 3293 | 3294 | rBV3 | 384    | 395    | 0.09%  | 0.010% |
| 93 | 11.861 | 3310 | 3324 | 3341 | rBV  | 189475 | 302745 | 65.34% | 7.323% |
| 94 | 11.974 | 3356 | 3359 | 3362 | rBV  | 168    | 78     | 0.02%  | 0.002% |
| 95 | 12.318 | 3464 | 3466 | 3467 | rBV  | 149    | 46     | 0.01%  | 0.001% |
| 96 | 12.482 | 3506 | 3517 | 3526 | rVB2 | 4856   | 7664   | 1.65%  | 0.185% |
| 97 | 13.437 | 3811 | 3814 | 3817 | rBV  | 268    | 160    | 0.03%  | 0.004% |
| 98 | 14.083 | 4013 | 4015 | 4018 | rBV  | 309    | 121    | 0.03%  | 0.003% |
| 99 | 14.279 | 4069 | 4076 | 4089 | rVB  | 8478   | 13509  | 2.92%  | 0.327% |

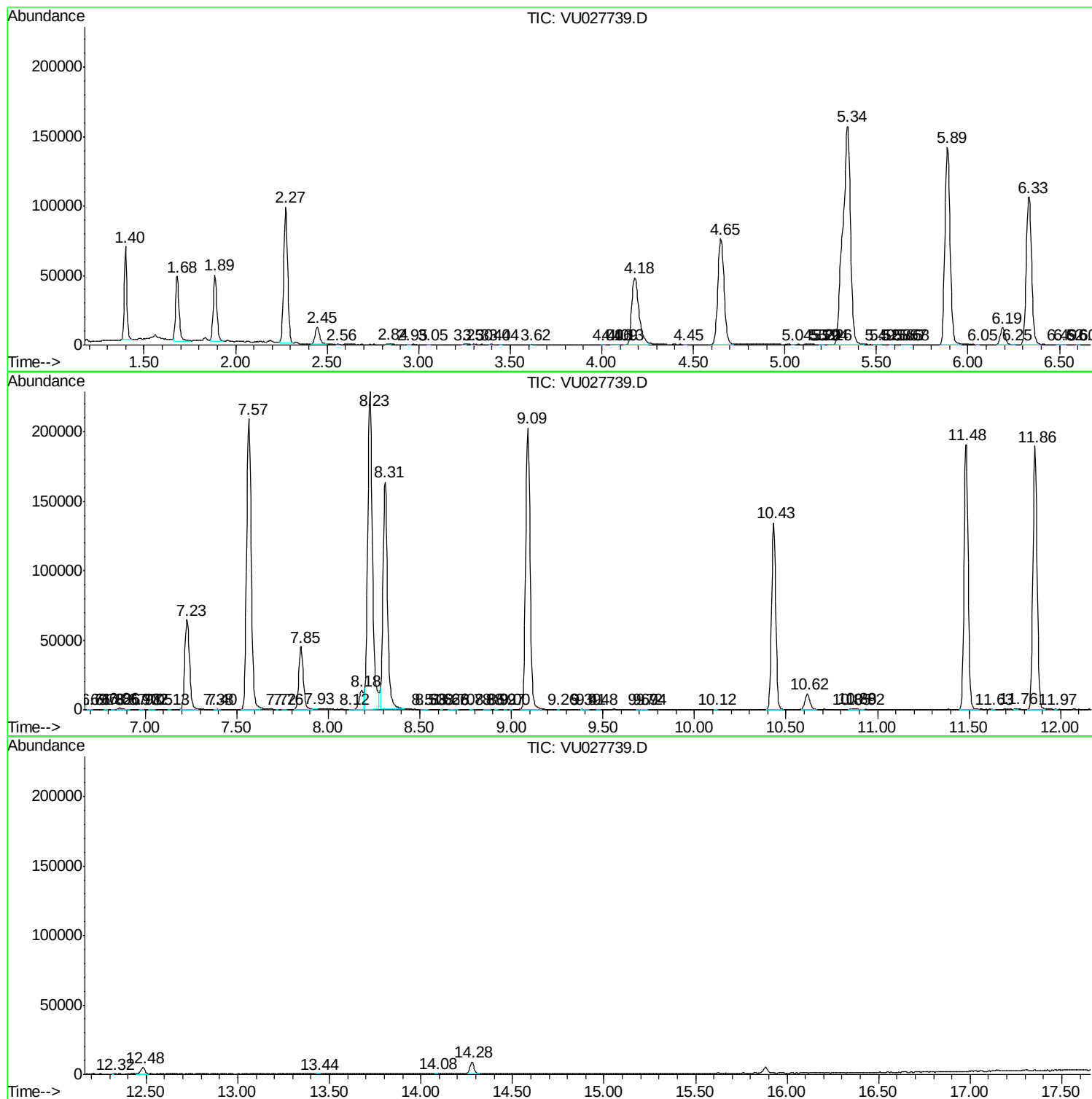
Sum of corrected areas: 4134310

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU102218\  
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Instrument :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM102218WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU102218\  
Data File : VU027739.D  
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Instrument :  
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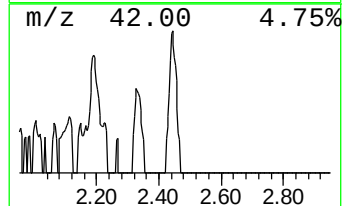
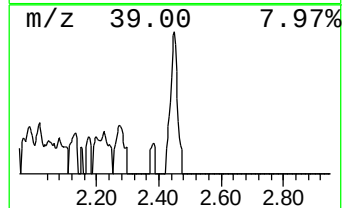
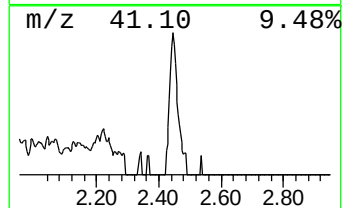
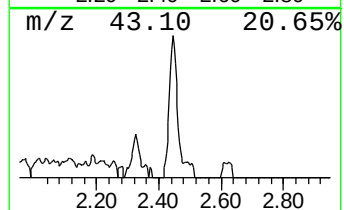
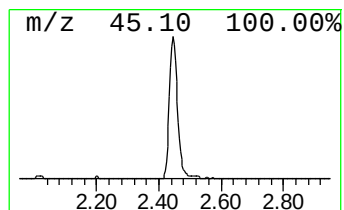
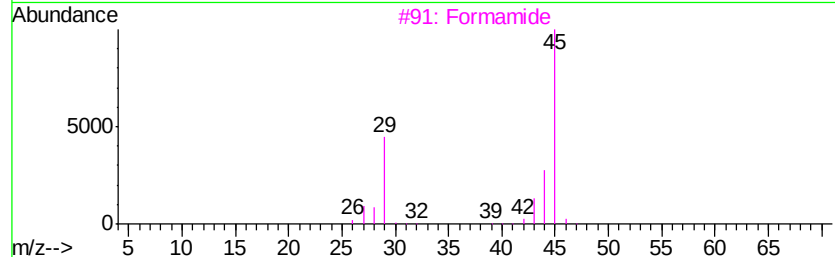
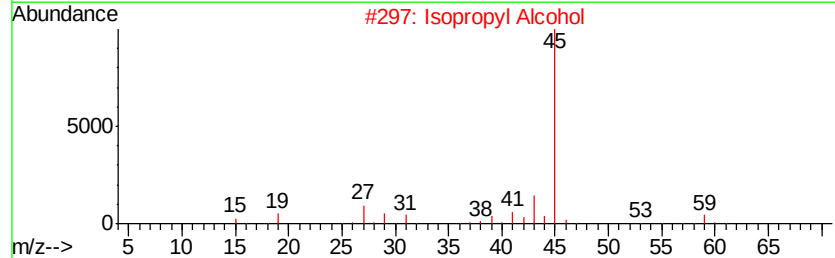
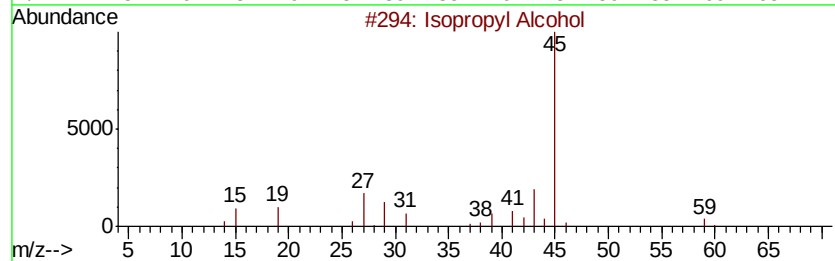
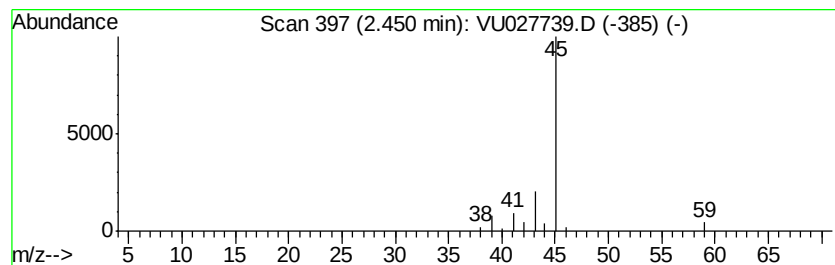
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM102218WMA.M  
Quant Title : VOC Analysis

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. |
|------|-----------|-------|---------------------|------|
| 2.45 | 3.98 ug/L | 22386 | 1,4-Difluorobenzene | 5.89 |

| Hit# | of | 5 | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|---|-------------------|----|---------|-------------|------|
| 1    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 74   |
| 2    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 64   |
| 3    |    |   | Formamide         | 45 | CH3NO   | 000075-12-7 | 5    |
| 4    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 4    |
| 5    |    |   | 4-Penten-2-ol     | 86 | C5H10O  | 000625-31-0 | 4    |



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Quant Title : VOC Analysis

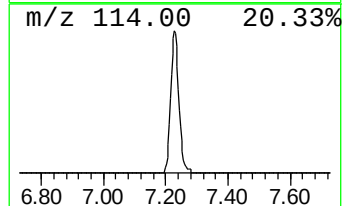
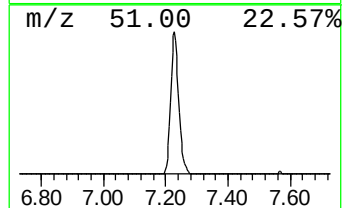
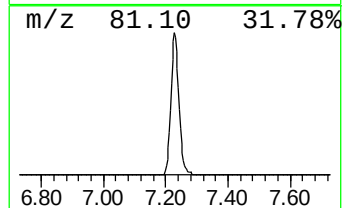
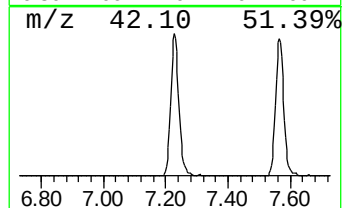
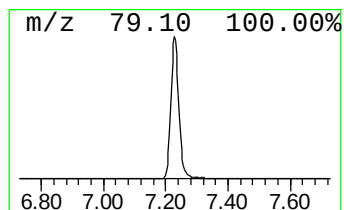
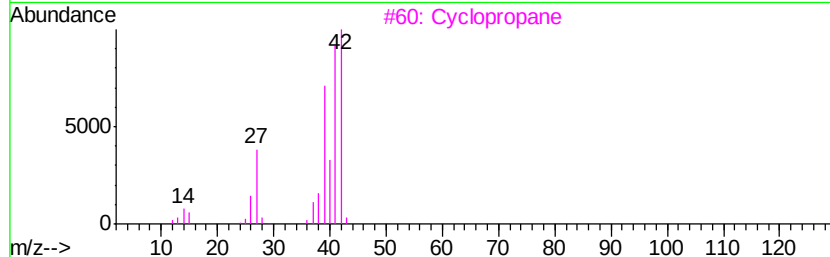
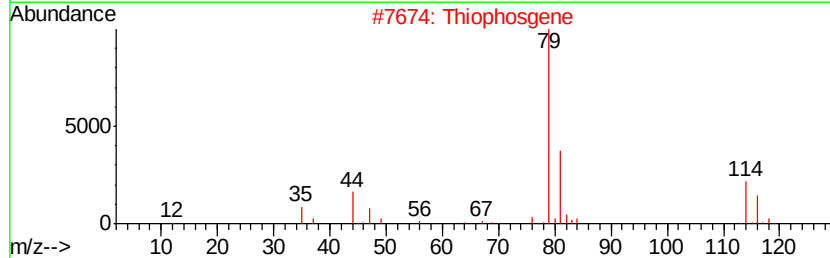
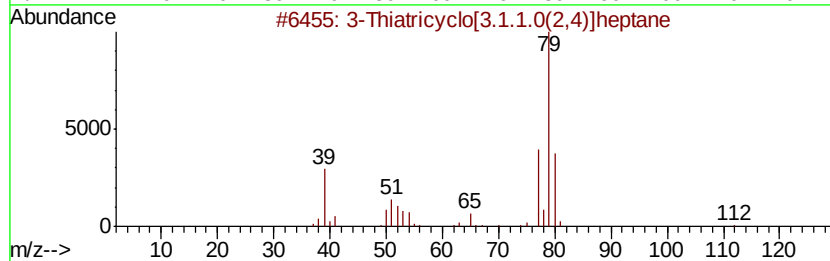
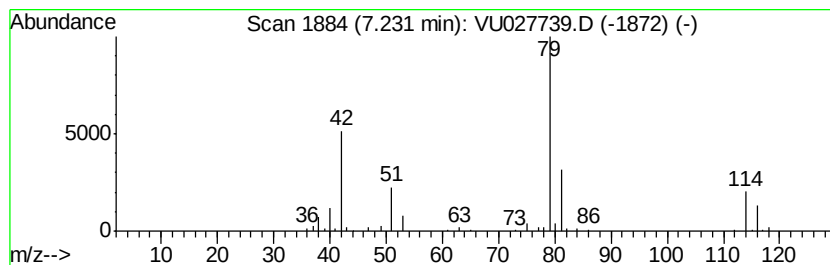
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown-01 Concentration Rank 1

| R.T. | EstConc    | Area   | Relative to ISTD    | R.T. |
|------|------------|--------|---------------------|------|
| 7.23 | 20.31 ug/L | 114252 | 1,4-Difluorobenzene | 5.89 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 3-Thiatricyclo[3.1.1.0(2,4)]heptane | 112 | C6H8S    | 1000221-37-0 | 32   |
| 2    |    | Thiophosgene                        | 114 | CCl2S    | 000463-71-8  | 28   |
| 3    |    | Cyclopropane                        | 42  | C3H6     | 000075-19-4  | 9    |
| 4    |    | Methane, oxybis[chloro-             | 114 | C2H4Cl2O | 000542-88-1  | 9    |
| 5    |    | 2-Propanol, 1,3-dichloro-           | 128 | C3H6Cl2O | 000096-23-1  | 9    |



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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 | 2.45 | 4.0     | ug/L  | 22386    | 1                     | 5.89 | 281317 | 50.0 |
| unknown-01        | 7.23 | 20.3    | ug/L  | 114252   | 1                     | 5.89 | 281317 | 50.0 |