

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090418\  
 Data File : VU026518.D  
 Acq On : 04 Sep 2018 12:25  
 Operator : MD/SY  
 Sample : J4694-01 5X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BEE18

## 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\SOMULM082918WMA.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      | 0.613    | 5          | 7        | 8         | rBV   | 110         | 62         | 0.01%        | 0.002%     |
| 2      | 0.664    | 21         | 23       | 25        | rBV   | 139         | 95         | 0.01%        | 0.002%     |
| 3      | 0.799    | 63         | 65       | 67        | rBB   | 122         | 66         | 0.01%        | 0.002%     |
| 4      | 0.822    | 70         | 72       | 74        | rBV   | 130         | 95         | 0.01%        | 0.002%     |
| 5      | 0.973    | 114        | 119      | 125       | rBV   | 176         | 289        | 0.04%        | 0.007%     |
| 6      | 1.002    | 125        | 128      | 132       | rVB   | 241         | 186        | 0.03%        | 0.005%     |
| 7      | 1.024    | 133        | 135      | 136       | rBV   | 217         | 104        | 0.01%        | 0.003%     |
| 8      | 1.085    | 139        | 154      | 174       | rBV   | 629459      | 697521     | 100.00%      | 17.528%    |
| 9      | 1.397    | 244        | 251      | 261       | rBV   | 36403       | 37562      | 5.39%        | 0.944%     |
| 10     | 1.471    | 266        | 274      | 291       | rBV   | 370332      | 407914     | 58.48%       | 10.251%    |
| 11     | 1.677    | 331        | 338      | 353       | rVB   | 51341       | 66770      | 9.57%        | 1.678%     |
| 12     | 2.194    | 490        | 499      | 508       | rBV   | 15231       | 22380      | 3.21%        | 0.562%     |
| 13     | 2.272    | 515        | 523      | 531       | rVB   | 36924       | 51096      | 7.33%        | 1.284%     |
| 14     | 2.320    | 531        | 538      | 555       | rVB   | 13075       | 21373      | 3.06%        | 0.537%     |
| 15     | 2.439    | 570        | 575      | 576       | rBV   | 219         | 187        | 0.03%        | 0.005%     |
| 16     | 2.448    | 576        | 578      | 581       | rVB   | 357         | 176        | 0.03%        | 0.004%     |
| 17     | 2.567    | 612        | 615      | 617       | rBV   | 109         | 71         | 0.01%        | 0.002%     |
| 18     | 2.622    | 625        | 632      | 639       | rBV2  | 527         | 724        | 0.10%        | 0.018%     |
| 19     | 2.699    | 650        | 656      | 667       | rBV4  | 1051        | 1547       | 0.22%        | 0.039%     |
| 20     | 2.841    | 689        | 700      | 713       | rVB2  | 2332        | 4698       | 0.67%        | 0.118%     |
| 21     | 2.944    | 723        | 732      | 743       | rVB   | 1602        | 3050       | 0.44%        | 0.077%     |
| 22     | 3.625    | 941        | 944      | 950       | rVB   | 306         | 262        | 0.04%        | 0.007%     |
| 23     | 3.799    | 994        | 998      | 1002      | rBV   | 163         | 205        | 0.03%        | 0.005%     |
| 24     | 3.821    | 1002       | 1005     | 1010      | rVV   | 99          | 102        | 0.01%        | 0.003%     |
| 25     | 3.847    | 1010       | 1013     | 1018      | rVV   | 82          | 91         | 0.01%        | 0.002%     |
| 26     | 3.944    | 1039       | 1043     | 1047      | rVV   | 86          | 86         | 0.01%        | 0.002%     |
| 27     | 4.101    | 1082       | 1092     | 1099      | rBV   | 440         | 848        | 0.12%        | 0.021%     |
| 28     | 4.178    | 1102       | 1116     | 1144      | rBV2  | 60324       | 166328     | 23.85%       | 4.180%     |
| 29     | 4.416    | 1187       | 1190     | 1193      | rBV2  | 211         | 127        | 0.02%        | 0.003%     |
| 30     | 4.500    | 1212       | 1216     | 1219      | rBV   | 204         | 218        | 0.03%        | 0.005%     |
| 31     | 4.651    | 1246       | 1263     | 1280      | rBV2  | 83533       | 194432     | 27.87%       | 4.886%     |
| 32     | 4.773    | 1298       | 1301     | 1303      | rBV   | 175         | 136        | 0.02%        | 0.003%     |
| 33     | 4.825    | 1313       | 1317     | 1319      | rBV   | 169         | 125        | 0.02%        | 0.003%     |
| 34     | 4.844    | 1320       | 1323     | 1325      | rBV   | 141         | 73         | 0.01%        | 0.002%     |

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## Integration Parameters: LSCINT.P

Integrator: RTE  
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 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\SOMULM082918WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |        |        |        |        |
|----|-------|------|------|------|------|--------|--------|--------|--------|
| 35 | 4.860 | 1327 | 1328 | 1331 | rVV  | 124    | 73     | 0.01%  | 0.002% |
| 36 | 4.892 | 1335 | 1338 | 1342 | rVB2 | 454    | 416    | 0.06%  | 0.010% |
| 37 | 4.947 | 1353 | 1355 | 1356 | rBV2 | 228    | 71     | 0.01%  | 0.002% |
| 38 | 4.985 | 1363 | 1367 | 1371 | rVV2 | 233    | 231    | 0.03%  | 0.006% |
| 39 | 5.018 | 1374 | 1377 | 1380 | rVB  | 131    | 84     | 0.01%  | 0.002% |
| 40 | 5.079 | 1393 | 1396 | 1401 | rVB  | 102    | 68     | 0.01%  | 0.002% |
| 41 | 5.146 | 1411 | 1417 | 1420 | rBV  | 137    | 135    | 0.02%  | 0.003% |
| 42 | 5.188 | 1427 | 1430 | 1432 | rBV  | 150    | 129    | 0.02%  | 0.003% |
| 43 | 5.249 | 1445 | 1449 | 1453 | rBV  | 275    | 314    | 0.05%  | 0.008% |
| 44 | 5.317 | 1454 | 1470 | 1472 | rBV  | 80380  | 137503 | 19.71% | 3.455% |
| 45 | 5.542 | 1537 | 1540 | 1543 | rVB  | 144    | 70     | 0.01%  | 0.002% |
| 46 | 5.574 | 1549 | 1550 | 1553 | rVB  | 175    | 90     | 0.01%  | 0.002% |
| 47 | 5.654 | 1573 | 1575 | 1578 | rBB  | 147    | 99     | 0.01%  | 0.002% |
| 48 | 5.683 | 1579 | 1584 | 1586 | rBV  | 184    | 205    | 0.03%  | 0.005% |
| 49 | 5.889 | 1635 | 1648 | 1665 | rBV  | 76856  | 147113 | 21.09% | 3.697% |
| 50 | 6.111 | 1714 | 1717 | 1727 | rBV  | 101    | 103    | 0.01%  | 0.003% |
| 51 | 6.333 | 1772 | 1786 | 1807 | rBV  | 115336 | 225517 | 32.33% | 5.667% |
| 52 | 6.693 | 1894 | 1898 | 1902 | rBV  | 115    | 112    | 0.02%  | 0.003% |
| 53 | 6.870 | 1950 | 1953 | 1957 | rVB2 | 265    | 190    | 0.03%  | 0.005% |
| 54 | 6.985 | 1985 | 1989 | 1992 | rBV  | 98     | 77     | 0.01%  | 0.002% |
| 55 | 7.072 | 2011 | 2016 | 2021 | rBV  | 70     | 97     | 0.01%  | 0.002% |
| 56 | 7.230 | 2054 | 2065 | 2079 | rBV2 | 31388  | 53129  | 7.62%  | 1.335% |
| 57 | 7.381 | 2107 | 2112 | 2113 | rBV  | 94     | 82     | 0.01%  | 0.002% |
| 58 | 7.448 | 2131 | 2133 | 2136 | rVB2 | 165    | 92     | 0.01%  | 0.002% |
| 59 | 7.471 | 2137 | 2140 | 2146 | rVB2 | 168    | 159    | 0.02%  | 0.004% |
| 60 | 7.567 | 2158 | 2170 | 2189 | rBV  | 64015  | 111412 | 15.97% | 2.800% |
| 61 | 7.654 | 2193 | 2197 | 2199 | rBV2 | 167    | 141    | 0.02%  | 0.004% |
| 62 | 7.712 | 2213 | 2215 | 2220 | rVB  | 145    | 70     | 0.01%  | 0.002% |
| 63 | 7.853 | 2249 | 2259 | 2275 | rVV  | 21388  | 35884  | 5.14%  | 0.902% |
| 64 | 7.940 | 2280 | 2286 | 2288 | rBV  | 268    | 328    | 0.05%  | 0.008% |
| 65 | 8.046 | 2317 | 2319 | 2322 | rVB  | 160    | 70     | 0.01%  | 0.002% |
| 66 | 8.188 | 2349 | 2363 | 2367 | rBV  | 24852  | 47161  | 6.76%  | 1.185% |
| 67 | 8.230 | 2369 | 2376 | 2390 | rVV2 | 78489  | 145949 | 20.92% | 3.668% |
| 68 | 8.313 | 2392 | 2402 | 2430 | rVB  | 187004 | 320205 | 45.91% | 8.047% |
| 69 | 8.455 | 2442 | 2446 | 2448 | rVB2 | 324    | 166    | 0.02%  | 0.004% |
| 70 | 8.468 | 2448 | 2450 | 2453 | rBV2 | 188    | 121    | 0.02%  | 0.003% |
| 71 | 8.503 | 2458 | 2461 | 2462 | rBV2 | 121    | 75     | 0.01%  | 0.002% |

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 Peak Location: TOP

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM082918WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 8.686  | 2516 | 2518 | 2523 | rBV  | 146    | 105    | 0.02%  | 0.003% |
| 73  | 8.760  | 2538 | 2541 | 2544 | rBV  | 101    | 82     | 0.01%  | 0.002% |
| 74  | 9.091  | 2633 | 2644 | 2663 | rBV  | 137964 | 226461 | 32.47% | 5.691% |
| 75  | 9.191  | 2673 | 2675 | 2678 | rVB  | 140    | 76     | 0.01%  | 0.002% |
| 76  | 9.355  | 2724 | 2726 | 2729 | rBV  | 100    | 60     | 0.01%  | 0.002% |
| 77  | 10.008 | 2926 | 2929 | 2937 | rBV  | 99     | 104    | 0.01%  | 0.003% |
| 78  | 10.159 | 2972 | 2976 | 2980 | rBV  | 161    | 151    | 0.02%  | 0.004% |
| 79  | 10.387 | 3045 | 3047 | 3049 | rBV  | 185    | 93     | 0.01%  | 0.002% |
| 80  | 10.432 | 3049 | 3061 | 3077 | rVV  | 179019 | 282734 | 40.53% | 7.105% |
| 81  | 10.615 | 3107 | 3118 | 3131 | rVB3 | 8215   | 15762  | 2.26%  | 0.396% |
| 82  | 11.072 | 3257 | 3260 | 3262 | rBV  | 133    | 95     | 0.01%  | 0.002% |
| 83  | 11.136 | 3277 | 3280 | 3283 | rBV2 | 609    | 497    | 0.07%  | 0.012% |
| 84  | 11.371 | 3350 | 3353 | 3355 | rBV  | 125    | 81     | 0.01%  | 0.002% |
| 85  | 11.487 | 3377 | 3389 | 3406 | rBV  | 191349 | 295534 | 42.37% | 7.427% |
| 86  | 11.577 | 3414 | 3417 | 3419 | rVB2 | 212    | 123    | 0.02%  | 0.003% |
| 87  | 11.863 | 3493 | 3506 | 3521 | rBV  | 150965 | 241631 | 34.64% | 6.072% |
| 88  | 12.098 | 3576 | 3579 | 3583 | rVB  | 233    | 143    | 0.02%  | 0.004% |
| 89  | 12.477 | 3690 | 3697 | 3698 | rBV  | 1486   | 1407   | 0.20%  | 0.035% |
| 90  | 12.702 | 3765 | 3767 | 3770 | rVB  | 185    | 61     | 0.01%  | 0.002% |
| 91  | 12.998 | 3857 | 3859 | 3863 | rVB  | 307    | 147    | 0.02%  | 0.004% |
| 92  | 13.143 | 3901 | 3904 | 3907 | rBV  | 197    | 102    | 0.01%  | 0.003% |
| 93  | 13.352 | 3967 | 3969 | 3972 | rVB  | 211    | 94     | 0.01%  | 0.002% |
| 94  | 13.532 | 4022 | 4025 | 4029 | rVB  | 240    | 164    | 0.02%  | 0.004% |
| 95  | 13.564 | 4033 | 4035 | 4037 | rVB  | 189    | 75     | 0.01%  | 0.002% |
| 96  | 13.577 | 4037 | 4039 | 4045 | rBV  | 178    | 133    | 0.02%  | 0.003% |
| 97  | 13.712 | 4080 | 4081 | 4082 | rBV  | 260    | 95     | 0.01%  | 0.002% |
| 98  | 13.889 | 4131 | 4136 | 4139 | rBV3 | 470    | 604    | 0.09%  | 0.015% |
| 99  | 14.278 | 4251 | 4257 | 4266 | rVB  | 1649   | 2346   | 0.34%  | 0.059% |
| 100 | 15.882 | 4750 | 4756 | 4769 | rVB3 | 2269   | 3662   | 0.53%  | 0.092% |

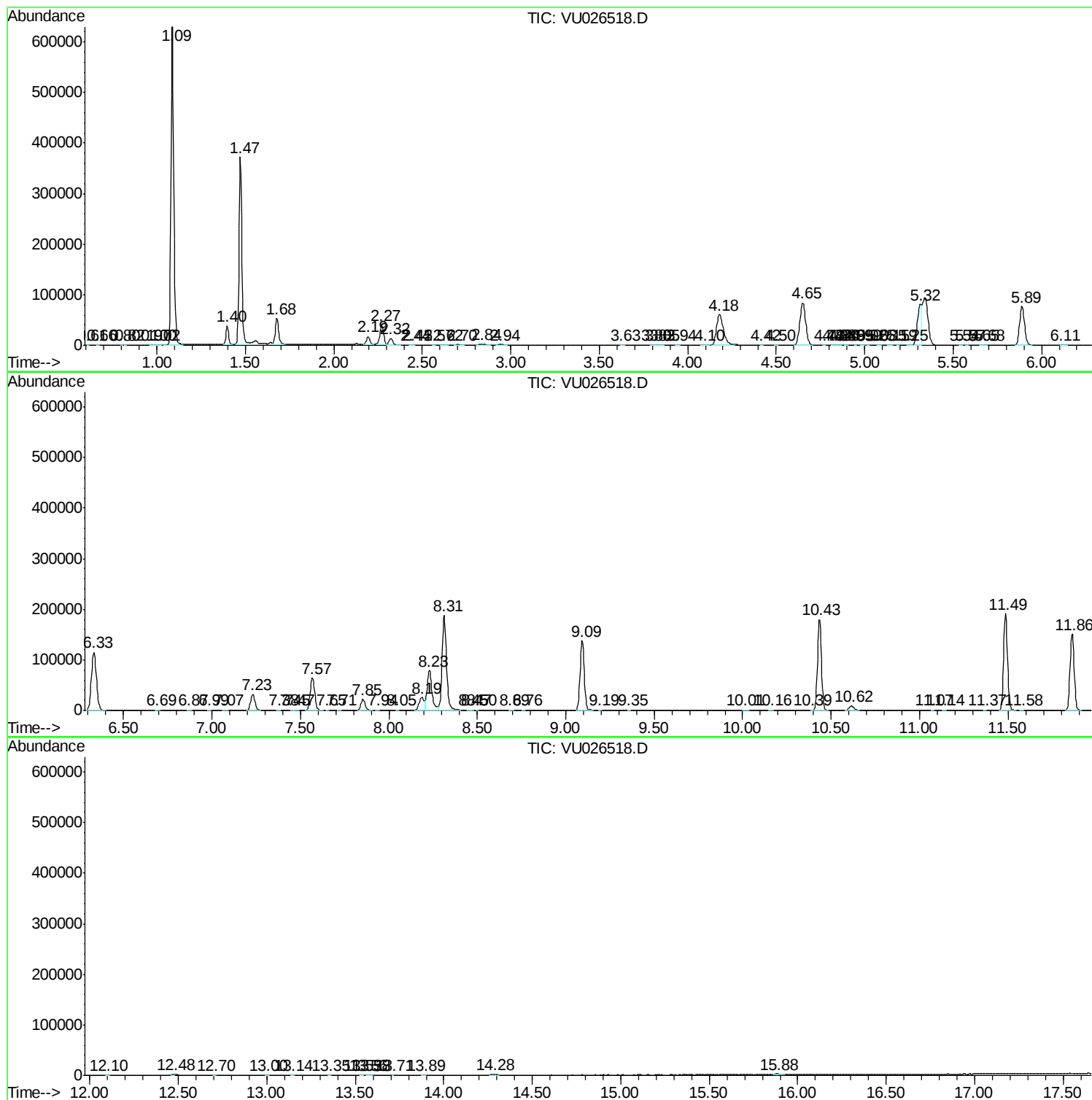
Sum of corrected areas: 3979362

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU090418\  
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Instrument :  
MSVOA\_U  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM082918WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU090418\  
Data File : VU026518.D  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM082918WMA.M  
Quant Title : VOC Analysis

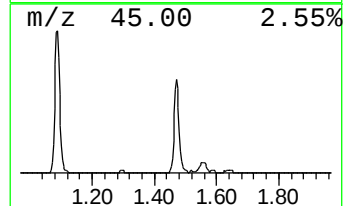
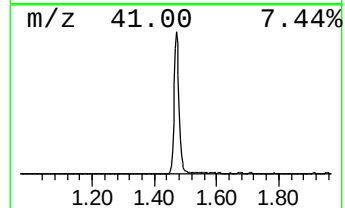
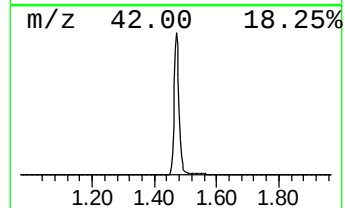
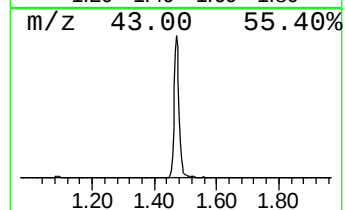
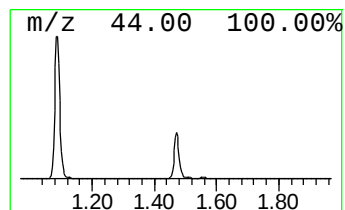
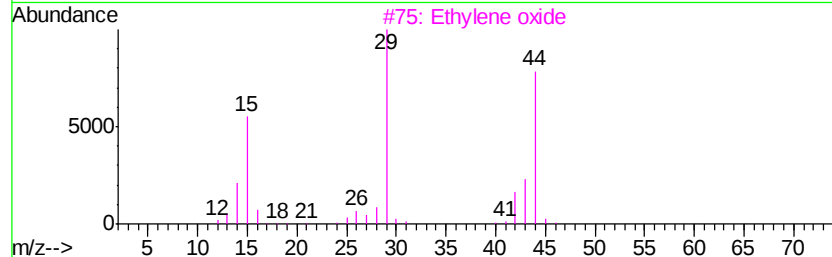
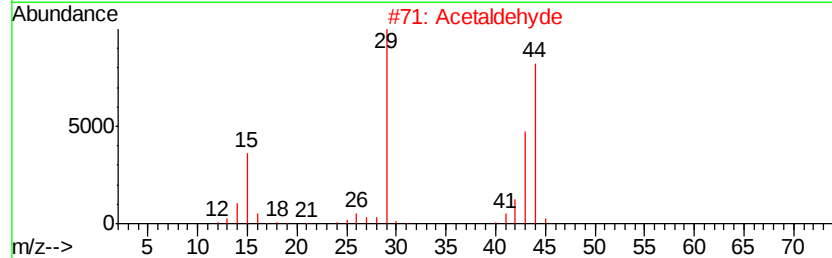
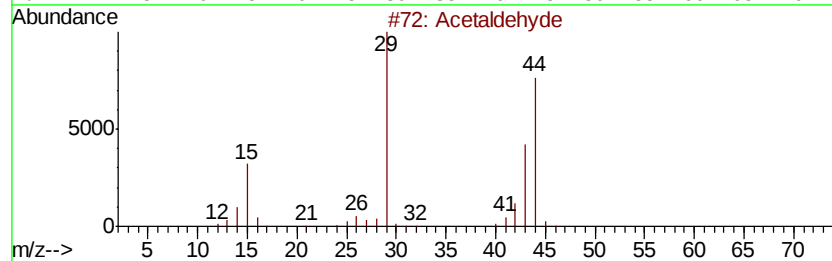
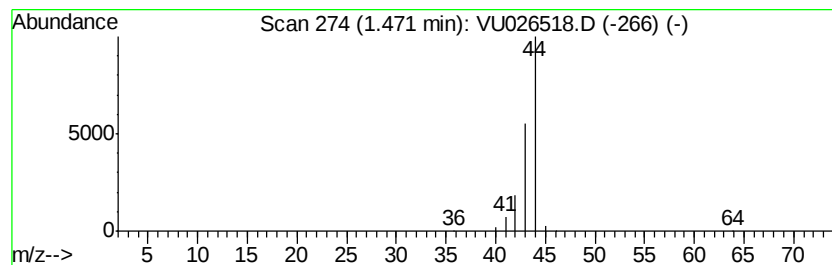
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Acetaldehyde Concentration Rank 2

| R.T. | EstConc     | Area   | Relative to ISTD    | R.T. |
|------|-------------|--------|---------------------|------|
| 1.47 | 138.64 ug/L | 407914 | 1,4-Difluorobenzene | 5.89 |

| Hit# | of | Tentative ID   | MW | MolForm | CAS#        | Qual |
|------|----|----------------|----|---------|-------------|------|
| 1    | 5  | Acetaldehyd    | 44 | C2H4O   | 000075-07-0 | 74   |
| 2    |    | Acetaldehyd    | 44 | C2H4O   | 000075-07-0 | 9    |
| 3    |    | Ethylene oxide | 44 | C2H4O   | 000075-21-8 | 5    |
| 4    |    | Ethylene oxide | 44 | C2H4O   | 000075-21-8 | 5    |
| 5    |    | Ethylene oxide | 44 | C2H4O   | 000075-21-8 | 5    |



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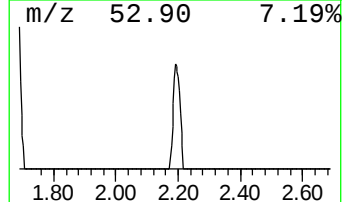
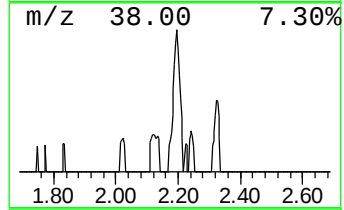
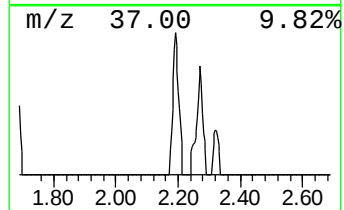
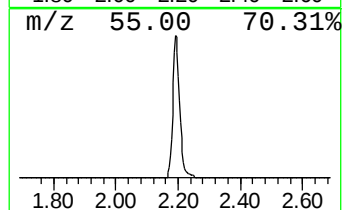
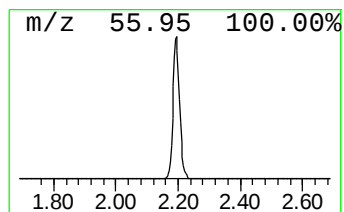
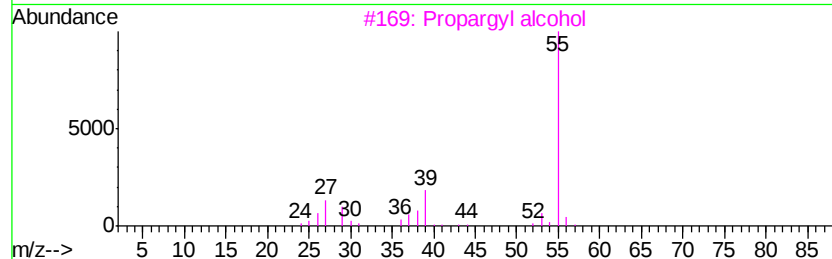
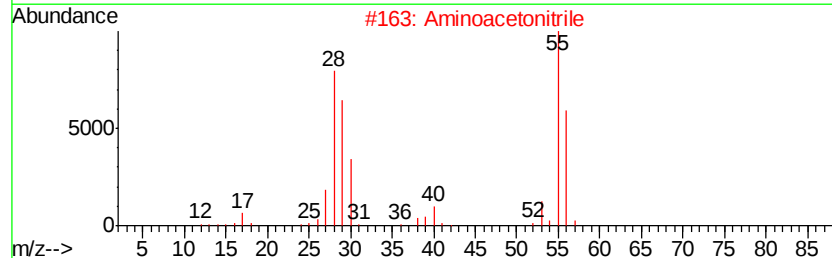
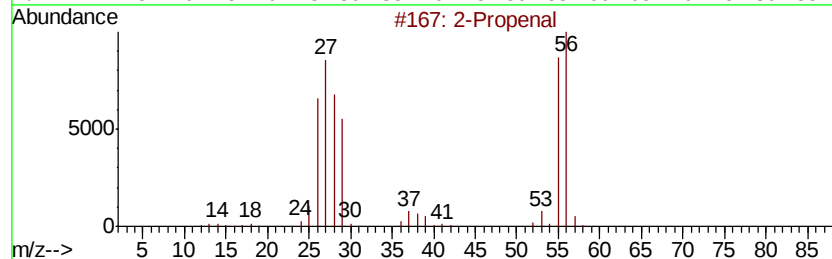
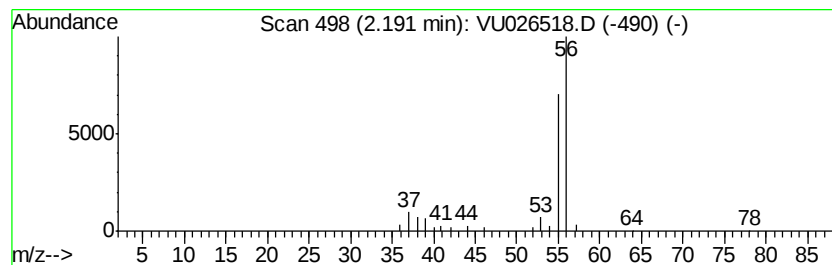
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM082918WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 3 2-Propenal Concentration Rank 4

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.19 | 7.61 ug/L | 22380 | 1,4-Difluorobenzene | 5.89 |

| Hit# | of | 5 | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|---|-------------------|----|---------|-------------|------|
| 1    |    |   | 2-Propenal        | 56 | C3H4O   | 000107-02-8 | 86   |
| 2    |    |   | Aminoacetonitrile | 56 | C2H4N2  | 000540-61-4 | 9    |
| 3    |    |   | Propargyl alcohol | 56 | C3H4O   | 000107-19-7 | 9    |
| 4    |    |   | Aminoacetonitrile | 56 | C2H4N2  | 000540-61-4 | 7    |
| 5    |    |   | 2-Propenal        | 56 | C3H4O   | 000107-02-8 | 7    |



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BEE18

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM082918WMA.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 |
| Acetaldehyde     | 1.47 | 138.6   | ug/L  | 407914   | 1                     | 5.89 | 147113 | 50.0 |
| 2-Propenal       | 2.19 | 7.6     | ug/L  | 22380    | 1                     | 5.89 | 147113 | 50.0 |