

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU041223\  
 Data File : VU053674.D  
 Acq On : 12 Apr 2023 20:05  
 Operator : JC/MD  
 Sample : 02252-09  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 COME5

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM033123WMA.M  
 Title : VOC Analysis

Signal : TIC: VU053674.D\data.ms

| 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         | 1.465       | 32            | 39          | 53           | rBV      | 35444          | 64072         | 7.41%           | 0.942%        |
| 2         | 1.597       | 74            | 80          | 90           | rBV      | 79804          | 92686         | 10.73%          | 1.362%        |
| 3         | 1.909       | 170           | 177         | 188          | rBV      | 71877          | 95669         | 11.07%          | 1.406%        |
| 4         | 2.562       | 368           | 380         | 396          | rBV      | 139263         | 221362        | 25.62%          | 3.253%        |
| 5         | 2.916       | 487           | 490         | 494          | rVB3     | 523            | 299           | 0.03%           | 0.004%        |
| 6         | 3.035       | 524           | 527         | 530          | rBV4     | 817            | 697           | 0.08%           | 0.010%        |
| 7         | 3.141       | 556           | 560         | 563          | rBV2     | 340            | 304           | 0.04%           | 0.004%        |
| 8         | 3.298       | 605           | 609         | 612          | rVB      | 334            | 280           | 0.03%           | 0.004%        |
| 9         | 3.391       | 637           | 638         | 644          | rBV      | 261            | 252           | 0.03%           | 0.004%        |
| 10        | 3.604       | 700           | 704         | 708          | rBV2     | 229            | 238           | 0.03%           | 0.003%        |
| 11        | 3.848       | 764           | 780         | 795          | rBV3     | 13748          | 32473         | 3.76%           | 0.477%        |
| 12        | 3.941       | 804           | 809         | 813          | rBV2     | 439            | 450           | 0.05%           | 0.007%        |
| 13        | 4.070       | 846           | 849         | 851          | rBV      | 264            | 164           | 0.02%           | 0.002%        |
| 14        | 4.186       | 881           | 885         | 890          | rVB      | 248            | 228           | 0.03%           | 0.003%        |
| 15        | 4.221       | 890           | 896         | 899          | rBV2     | 320            | 418           | 0.05%           | 0.006%        |
| 16        | 4.282       | 912           | 915         | 921          | rBV      | 225            | 215           | 0.02%           | 0.003%        |
| 17        | 4.395       | 946           | 950         | 953          | rBV2     | 170            | 153           | 0.02%           | 0.002%        |
| 18        | 4.436       | 959           | 963         | 966          | rBV      | 173            | 160           | 0.02%           | 0.002%        |
| 19        | 4.481       | 973           | 977         | 978          | rBV      | 242            | 173           | 0.02%           | 0.003%        |
| 20        | 4.520       | 985           | 989         | 990          | rBV      | 223            | 154           | 0.02%           | 0.002%        |
| 21        | 4.562       | 999           | 1002        | 1004         | rBV2     | 254            | 184           | 0.02%           | 0.003%        |
| 22        | 4.613       | 1006          | 1018        | 1046         | rBV      | 76469          | 183839        | 21.27%          | 2.702%        |
| 23        | 4.996       | 1133          | 1137        | 1140         | rBV2     | 261            | 276           | 0.03%           | 0.004%        |
| 24        | 5.054       | 1140          | 1155        | 1174         | rBV2     | 141174         | 314779        | 36.43%          | 4.626%        |
| 25        | 5.391       | 1257          | 1260        | 1266         | rBV2     | 203            | 237           | 0.03%           | 0.003%        |
| 26        | 5.427       | 1266          | 1271        | 1273         | rBV      | 194            | 186           | 0.02%           | 0.003%        |
| 27        | 5.494       | 1287          | 1292        | 1297         | rBV2     | 286            | 271           | 0.03%           | 0.004%        |
| 28        | 5.594       | 1318          | 1323        | 1324         | rBV      | 181            | 165           | 0.02%           | 0.002%        |
| 29        | 5.719       | 1342          | 1362        | 1391         | rBV3     | 274988         | 791042        | 91.54%          | 11.625%       |
| 30        | 6.038       | 1459          | 1461        | 1464         | rBV2     | 233            | 150           | 0.02%           | 0.002%        |
| 31        | 6.067       | 1466          | 1470        | 1474         | rVB2     | 264            | 247           | 0.03%           | 0.004%        |
| 32        | 6.115       | 1482          | 1485        | 1489         | rVB2     | 359            | 277           | 0.03%           | 0.004%        |
| 33        | 6.137       | 1489          | 1492        | 1493         | rBV      | 247            | 147           | 0.02%           | 0.002%        |
| 34        | 6.243       | 1507          | 1525        | 1548         | rBV      | 299067         | 572484        | 66.25%          | 8.413%        |
| 35        | 6.517       | 1606          | 1610        | 1612         | rBV2     | 954            | 775           | 0.09%           | 0.011%        |
| 36        | 6.559       | 1619          | 1623        | 1624         | rBV      | 214            | 147           | 0.02%           | 0.002%        |

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 ClientSampleId :  
 COME5

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Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM033123WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |         |         |
|----|--------|------|------|------|------|--------|--------|---------|---------|
| 37 | 6.597  | 1632 | 1635 | 1641 | rVB2 | 172    | 175    | 0.02%   | 0.003%  |
| 38 | 6.684  | 1649 | 1662 | 1687 | rBV  | 179952 | 350023 | 40.51%  | 5.144%  |
| 39 | 6.858  | 1714 | 1716 | 1721 | rVB2 | 207    | 160    | 0.02%   | 0.002%  |
| 40 | 6.951  | 1742 | 1745 | 1749 | rBV2 | 243    | 229    | 0.03%   | 0.003%  |
| 41 | 7.079  | 1780 | 1785 | 1791 | rVB2 | 262    | 345    | 0.04%   | 0.005%  |
| 42 | 7.185  | 1808 | 1818 | 1824 | rBV5 | 1352   | 2431   | 0.28%   | 0.036%  |
| 43 | 7.250  | 1836 | 1838 | 1841 | rVB5 | 344    | 147    | 0.02%   | 0.002%  |
| 44 | 7.298  | 1849 | 1853 | 1857 | rBV2 | 225    | 225    | 0.03%   | 0.003%  |
| 45 | 7.488  | 1908 | 1912 | 1915 | rBV2 | 305    | 237    | 0.03%   | 0.003%  |
| 46 | 7.562  | 1922 | 1935 | 1955 | rBV  | 95197  | 167246 | 19.35%  | 2.458%  |
| 47 | 7.764  | 1995 | 1998 | 2002 | rVB  | 243    | 178    | 0.02%   | 0.003%  |
| 48 | 7.784  | 2002 | 2004 | 2007 | rVB  | 246    | 145    | 0.02%   | 0.002%  |
| 49 | 7.893  | 2023 | 2038 | 2074 | rBV  | 347950 | 603908 | 69.89%  | 8.875%  |
| 50 | 8.176  | 2114 | 2126 | 2144 | rBV  | 65888  | 113600 | 13.15%  | 1.669%  |
| 51 | 8.279  | 2156 | 2158 | 2162 | rVB  | 475    | 230    | 0.03%   | 0.003%  |
| 52 | 8.304  | 2162 | 2166 | 2169 | rVB  | 272    | 166    | 0.02%   | 0.002%  |
| 53 | 8.346  | 2171 | 2179 | 2180 | rBV2 | 235    | 242    | 0.03%   | 0.004%  |
| 54 | 8.626  | 2253 | 2266 | 2295 | rBV  | 225290 | 410738 | 47.53%  | 6.036%  |
| 55 | 8.793  | 2315 | 2318 | 2321 | rBV2 | 318    | 241    | 0.03%   | 0.004%  |
| 56 | 8.829  | 2326 | 2329 | 2332 | rBV2 | 325    | 247    | 0.03%   | 0.004%  |
| 57 | 8.919  | 2353 | 2357 | 2359 | rBV2 | 247    | 222    | 0.03%   | 0.003%  |
| 58 | 8.957  | 2366 | 2369 | 2372 | rBV2 | 270    | 191    | 0.02%   | 0.003%  |
| 59 | 9.083  | 2406 | 2408 | 2412 | rVB2 | 214    | 168    | 0.02%   | 0.002%  |
| 60 | 9.115  | 2412 | 2418 | 2421 | rBV2 | 285    | 327    | 0.04%   | 0.005%  |
| 61 | 9.414  | 2498 | 2511 | 2543 | rBV2 | 418154 | 864109 | 100.00% | 12.699% |
| 62 | 9.594  | 2563 | 2567 | 2570 | rVB2 | 257    | 203    | 0.02%   | 0.003%  |
| 63 | 9.706  | 2599 | 2602 | 2607 | rVB  | 261    | 171    | 0.02%   | 0.003%  |
| 64 | 9.748  | 2611 | 2615 | 2617 | rBV  | 287    | 219    | 0.03%   | 0.003%  |
| 65 | 9.783  | 2624 | 2626 | 2629 | rBV  | 214    | 191    | 0.02%   | 0.003%  |
| 66 | 9.864  | 2648 | 2651 | 2654 | rBV2 | 241    | 162    | 0.02%   | 0.002%  |
| 67 | 9.899  | 2659 | 2662 | 2668 | rBV  | 396    | 403    | 0.05%   | 0.006%  |
| 68 | 10.182 | 2745 | 2750 | 2752 | rBV  | 325    | 304    | 0.04%   | 0.004%  |
| 69 | 10.250 | 2766 | 2771 | 2772 | rBV  | 232    | 157    | 0.02%   | 0.002%  |
| 70 | 10.291 | 2782 | 2784 | 2791 | rVB  | 271    | 187    | 0.02%   | 0.003%  |
| 71 | 10.333 | 2793 | 2797 | 2800 | rBV2 | 262    | 249    | 0.03%   | 0.004%  |
| 72 | 10.536 | 2858 | 2860 | 2865 | rVB2 | 206    | 161    | 0.02%   | 0.002%  |
| 73 | 10.751 | 2914 | 2927 | 2948 | rBV  | 287472 | 463343 | 53.62%  | 6.809%  |
| 74 | 10.845 | 2952 | 2956 | 2959 | rBV2 | 307    | 280    | 0.03%   | 0.004%  |
| 75 | 10.880 | 2965 | 2967 | 2968 | rBV  | 332    | 152    | 0.02%   | 0.002%  |
| 76 | 11.449 | 3141 | 3144 | 3146 | rBV  | 324    | 159    | 0.02%   | 0.002%  |

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Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

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Min Area: 0 % of largest Peak

Start Thrs: 0.2

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Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM033123WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |         |
|-----|--------|------|------|------|------|--------|--------|--------|---------|
| 77  | 11.507 | 3158 | 3162 | 3167 | rVB2 | 316    | 302    | 0.03%  | 0.004%  |
| 78  | 11.629 | 3198 | 3200 | 3206 | rVB2 | 282    | 201    | 0.02%  | 0.003%  |
| 79  | 11.661 | 3207 | 3210 | 3212 | rBV  | 206    | 156    | 0.02%  | 0.002%  |
| 80  | 11.729 | 3228 | 3231 | 3232 | rBV3 | 417    | 211    | 0.02%  | 0.003%  |
| 81  | 11.738 | 3232 | 3234 | 3235 | rBV  | 904    | 473    | 0.05%  | 0.007%  |
| 82  | 11.809 | 3243 | 3256 | 3278 | rBV  | 447148 | 773507 | 89.51% | 11.367% |
| 83  | 12.189 | 3362 | 3374 | 3394 | rBV  | 388175 | 665695 | 77.04% | 9.783%  |
| 84  | 12.475 | 3460 | 3463 | 3468 | rVB  | 302    | 222    | 0.03%  | 0.003%  |
| 85  | 12.513 | 3472 | 3475 | 3478 | rVB  | 421    | 197    | 0.02%  | 0.003%  |
| 86  | 12.558 | 3486 | 3489 | 3495 | rVB2 | 392    | 312    | 0.04%  | 0.005%  |
| 87  | 12.844 | 3575 | 3578 | 3580 | rBV  | 290    | 147    | 0.02%  | 0.002%  |
| 88  | 12.951 | 3608 | 3611 | 3614 | rBV  | 429    | 274    | 0.03%  | 0.004%  |
| 89  | 13.037 | 3635 | 3638 | 3641 | rVB2 | 258    | 179    | 0.02%  | 0.003%  |
| 90  | 13.160 | 3672 | 3676 | 3679 | rBB  | 248    | 164    | 0.02%  | 0.002%  |
| 91  | 13.295 | 3714 | 3718 | 3720 | rBV2 | 306    | 227    | 0.03%  | 0.003%  |
| 92  | 13.446 | 3763 | 3765 | 3769 | rBV  | 346    | 207    | 0.02%  | 0.003%  |
| 93  | 13.478 | 3773 | 3775 | 3779 | rBV  | 380    | 287    | 0.03%  | 0.004%  |
| 94  | 13.642 | 3823 | 3826 | 3827 | rBV  | 298    | 159    | 0.02%  | 0.002%  |
| 95  | 13.703 | 3840 | 3845 | 3848 | rBV2 | 469    | 559    | 0.06%  | 0.008%  |
| 96  | 13.848 | 3884 | 3890 | 3899 | rVB6 | 1318   | 1927   | 0.22%  | 0.028%  |
| 97  | 13.912 | 3906 | 3910 | 3912 | rBV  | 340    | 267    | 0.03%  | 0.004%  |
| 98  | 13.957 | 3921 | 3924 | 3926 | rBV2 | 340    | 262    | 0.03%  | 0.004%  |
| 99  | 14.250 | 4011 | 4015 | 4020 | rVB2 | 575    | 487    | 0.06%  | 0.007%  |
| 100 | 14.532 | 4098 | 4103 | 4107 | rBV2 | 326    | 402    | 0.05%  | 0.006%  |

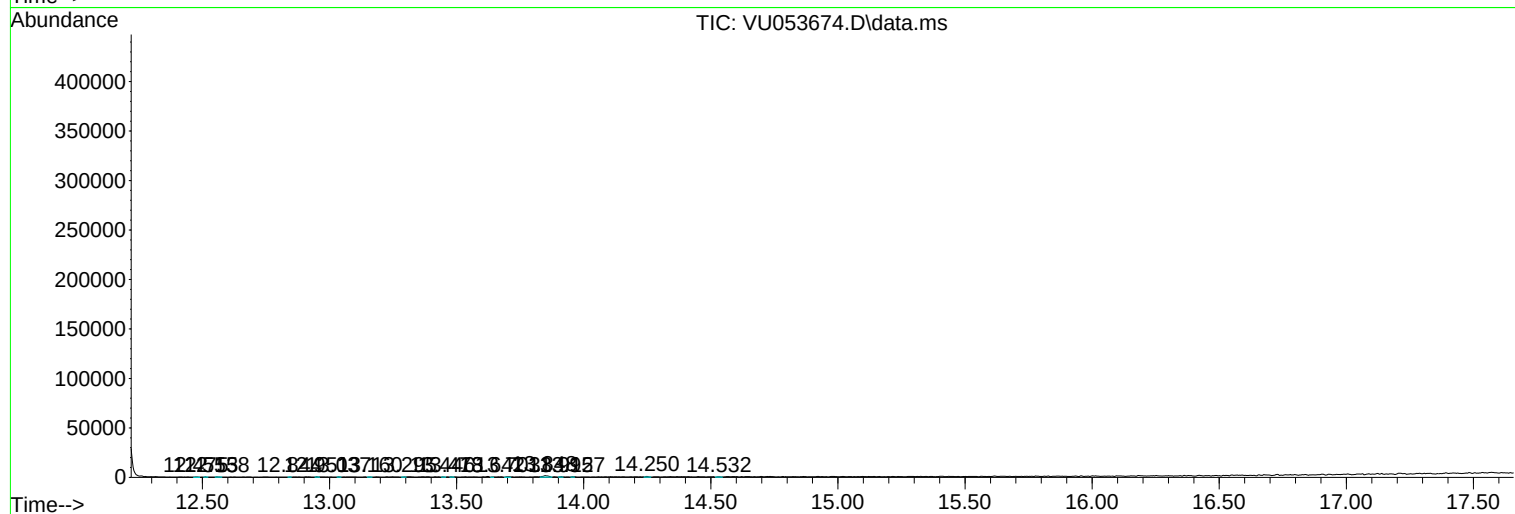
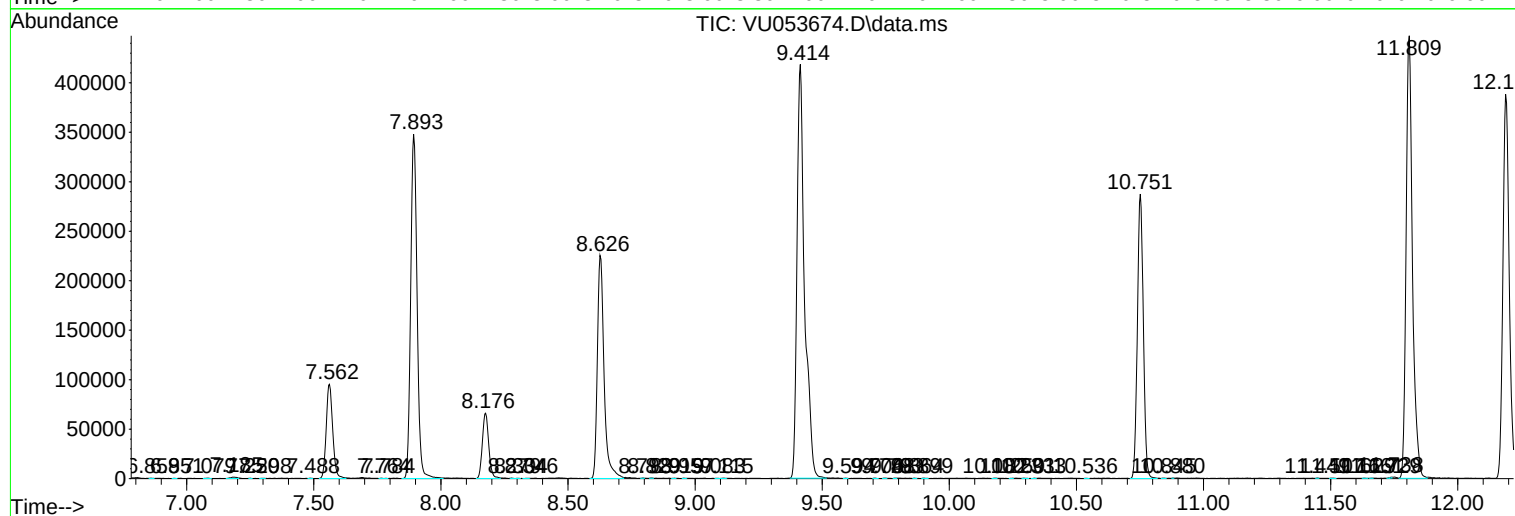
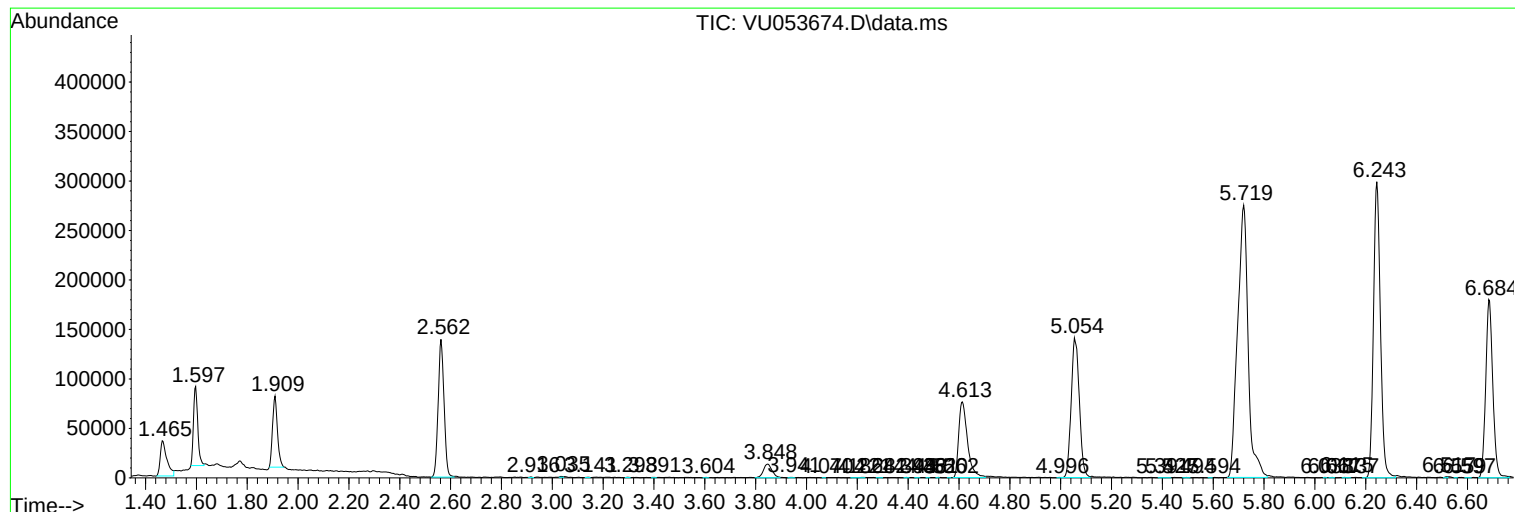
Sum of corrected areas: 6804748

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM033123WMA.M  
Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM033123WMA.M  
Quant Title : VOC Analysis

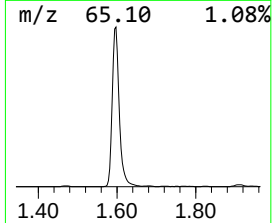
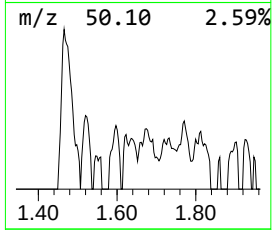
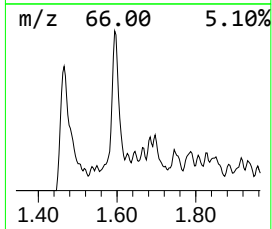
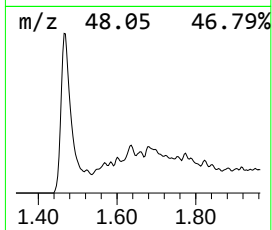
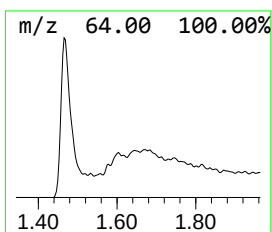
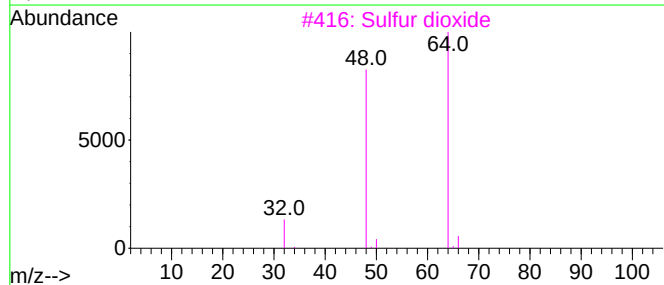
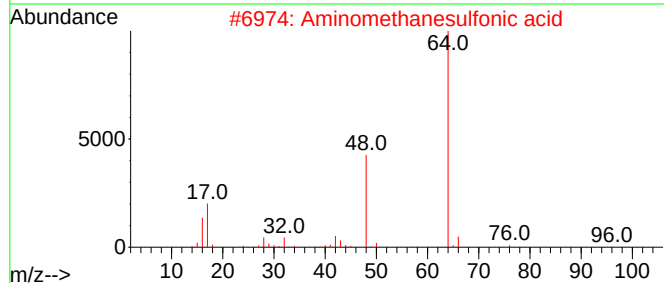
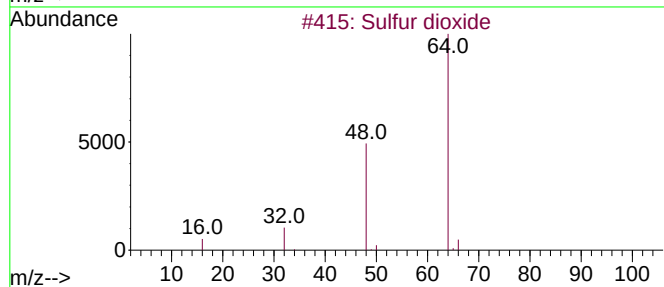
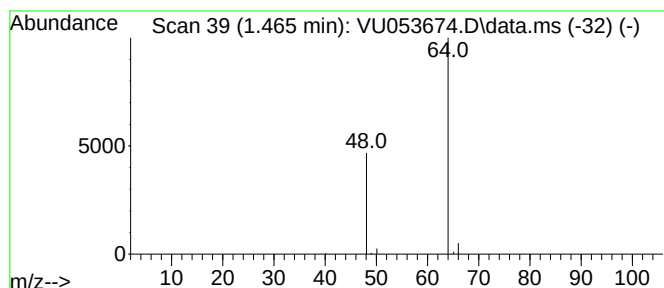
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Sulfur dioxide Concentration Rank 2

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 1.465 | 5.60 ug/L | 64072 | 1,4-Difluorobenzene | 6.243 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------------|-----|----------|-------------|------|
| 1    |    |   | Sulfur dioxide            | 64  | O2S      | 007446-09-5 | 83   |
| 2    |    |   | Aminomethanesulfonic acid | 111 | CH5NO3S  | 013881-91-9 | 74   |
| 3    |    |   | Sulfur dioxide            | 64  | O2S      | 007446-09-5 | 9    |
| 4    |    |   | L-Alanine, 3-sulfo-       | 169 | C3H7NO5S | 000498-40-8 | 9    |
| 5    |    |   | Aminomethanesulfonic acid | 111 | CH5NO3S  | 013881-91-9 | 9    |



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Instrument :  
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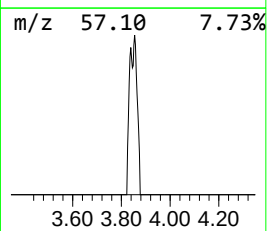
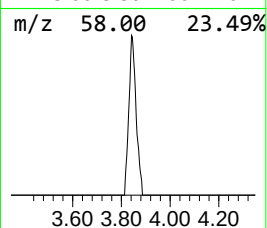
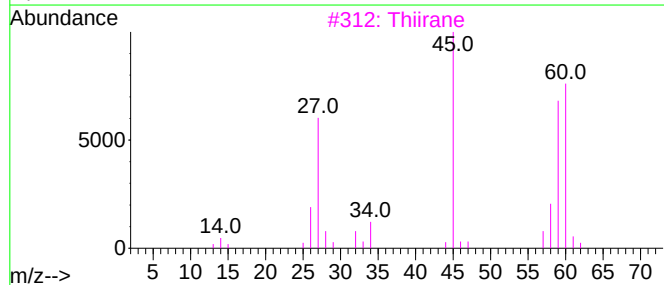
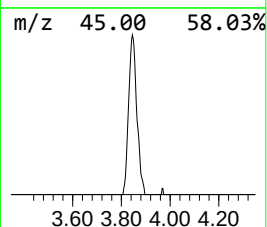
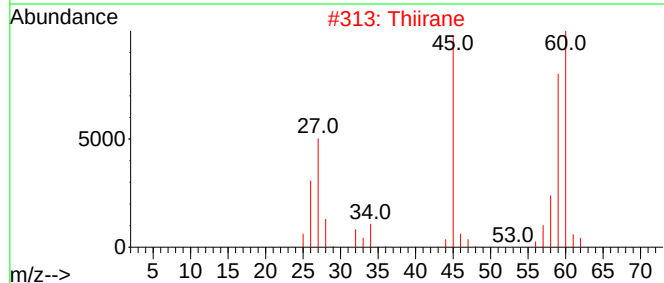
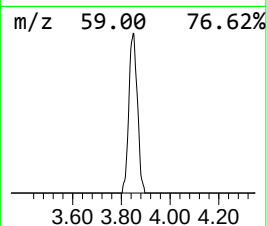
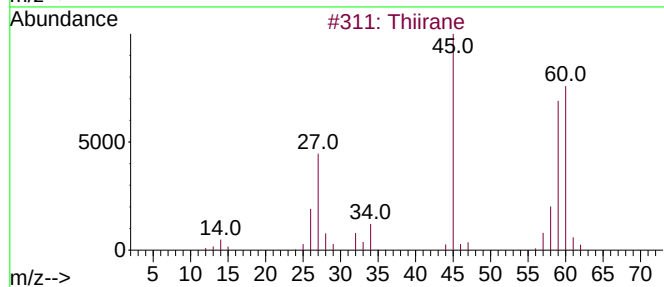
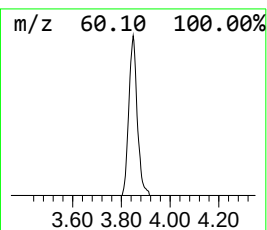
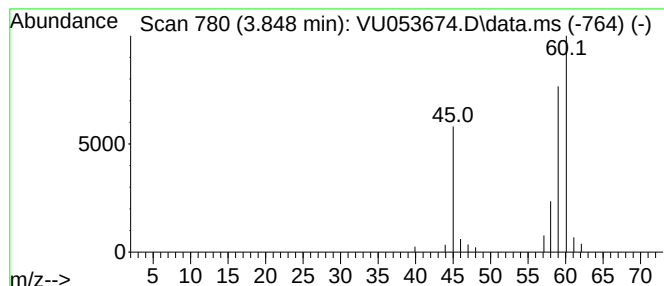
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM033123WMA.M  
Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Thiirane Concentration Rank 3

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 3.848 | 2.84 ug/L | 32473 | 1,4-Difluorobenzene | 6.243 |

| Hit# | of                       | 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|--------------------------|---|--------------|----|---------|-------------|------|
| 1    | Thiirane                 |   |              | 60 | C2H4S   | 000420-12-2 | 78   |
| 2    | Thiirane                 |   |              | 60 | C2H4S   | 000420-12-2 | 78   |
| 3    | Thiirane                 |   |              | 60 | C2H4S   | 000420-12-2 | 58   |
| 4    | Silane, dimethyl-        |   |              | 60 | C2H8Si  | 001111-74-6 | 25   |
| 5    | Hydrazine, 1,1-dimethyl- |   |              | 60 | C2H8N2  | 000057-14-7 | 9    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU041223\  
Data File : VU053674.D  
Acq On : 12 Apr 2023 20:05  
Operator : JC/MD  
Sample : 02252-09  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0ME5

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM033123WMA.M  
Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                  |       |         |       |          | #                     | RT    | Resp   | Conc |
| Sulfur dioxide   | 1.465 | 5.6     | ug/L  | 64072    | 1                     | 6.243 | 572484 | 50.0 |
| Thiirane         | 3.848 | 2.8     | ug/L  | 32473    | 1                     | 6.243 | 572484 | 50.0 |