

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112919\  
 Data File : VW014184.D  
 Acq On : 29 Nov 2019 16:26  
 Operator : SY/VA  
 Sample : K6089-14  
 Misc : 3.19G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0BR2

## 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\_W\METHOD\SOM2WLM111119S.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         | 2.154       | 37            | 41          | 48           | rBV2     | 10362          | 22810         | 5.04%           | 1.062%        |
| 2         | 2.349       | 68            | 73          | 81           | rVB      | 30176          | 52759         | 11.66%          | 2.456%        |
| 3         | 2.885       | 155           | 161         | 171          | rVB      | 29353          | 66690         | 14.74%          | 3.104%        |
| 4         | 3.294       | 226           | 228         | 230          | rBV2     | 381            | 364           | 0.08%           | 0.017%        |
| 5         | 3.471       | 255           | 257         | 260          | rBV3     | 432            | 532           | 0.12%           | 0.025%        |
| 6         | 3.702       | 292           | 295         | 296          | rVB      | 483            | 405           | 0.09%           | 0.019%        |
| 7         | 3.861       | 316           | 321         | 322          | rBV      | 591            | 617           | 0.14%           | 0.029%        |
| 8         | 4.013       | 336           | 346         | 361          | rBV      | 38856          | 124168        | 27.44%          | 5.779%        |
| 9         | 4.172       | 371           | 372         | 374          | rVB2     | 618            | 335           | 0.07%           | 0.016%        |
| 10        | 4.202       | 374           | 377         | 378          | rBV      | 305            | 271           | 0.06%           | 0.013%        |
| 11        | 4.288       | 389           | 391         | 394          | rBV      | 289            | 357           | 0.08%           | 0.017%        |
| 12        | 4.336       | 397           | 399         | 400          | rBV      | 294            | 254           | 0.06%           | 0.012%        |
| 13        | 4.367       | 403           | 404         | 405          | rBV      | 611            | 377           | 0.08%           | 0.018%        |
| 14        | 4.519       | 427           | 429         | 432          | rVB2     | 291            | 322           | 0.07%           | 0.015%        |
| 15        | 4.623       | 444           | 446         | 448          | rBV2     | 206            | 249           | 0.06%           | 0.012%        |
| 16        | 4.665       | 452           | 453         | 458          | rBV2     | 387            | 488           | 0.11%           | 0.023%        |
| 17        | 4.708       | 458           | 460         | 462          | rBV2     | 379            | 385           | 0.09%           | 0.018%        |
| 18        | 4.763       | 468           | 469         | 470          | rBV      | 403            | 205           | 0.05%           | 0.010%        |
| 19        | 4.922       | 483           | 495         | 499          | rBV5     | 3999           | 13218         | 2.92%           | 0.615%        |
| 20        | 5.025       | 510           | 512         | 513          | rBV2     | 287            | 233           | 0.05%           | 0.011%        |
| 21        | 5.232       | 544           | 546         | 548          | rVB      | 434            | 226           | 0.05%           | 0.011%        |
| 22        | 5.293       | 555           | 556         | 558          | rBV      | 293            | 210           | 0.05%           | 0.010%        |
| 23        | 5.403       | 573           | 574         | 576          | rBV2     | 226            | 207           | 0.05%           | 0.010%        |
| 24        | 6.037       | 672           | 678         | 681          | rBV2     | 347            | 514           | 0.11%           | 0.024%        |
| 25        | 6.098       | 686           | 688         | 690          | rBV2     | 233            | 249           | 0.06%           | 0.012%        |
| 26        | 6.141       | 694           | 695         | 698          | rBV      | 242            | 225           | 0.05%           | 0.010%        |
| 27        | 6.305       | 719           | 722         | 723          | rBV2     | 282            | 291           | 0.06%           | 0.014%        |
| 28        | 6.446       | 742           | 745         | 747          | rBV      | 197            | 212           | 0.05%           | 0.010%        |
| 29        | 6.659       | 778           | 780         | 783          | rBV2     | 246            | 289           | 0.06%           | 0.013%        |
| 30        | 6.805       | 802           | 804         | 807          | rVV2     | 242            | 204           | 0.05%           | 0.009%        |
| 31        | 6.976       | 830           | 832         | 835          | rVB2     | 388            | 408           | 0.09%           | 0.019%        |
| 32        | 7.074       | 838           | 848         | 856          | rBV      | 39245          | 116363        | 25.71%          | 5.416%        |
| 33        | 7.256       | 876           | 878         | 880          | rBV      | 380            | 395           | 0.09%           | 0.018%        |
| 34        | 7.275       | 880           | 881         | 883          | rBV      | 448            | 316           | 0.07%           | 0.015%        |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0BR2

## 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\_W\METHOD\SOM2WLM111119S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |         |         |
|----|--------|------|------|------|------|--------|--------|---------|---------|
| 35 | 7.348  | 890  | 893  | 899  | rBV4 | 442    | 911    | 0.20%   | 0.042%  |
| 36 | 7.464  | 910  | 912  | 915  | rBV2 | 324    | 307    | 0.07%   | 0.014%  |
| 37 | 7.525  | 915  | 922  | 932  | rVV3 | 8638   | 24039  | 5.31%   | 1.119%  |
| 38 | 7.641  | 933  | 941  | 954  | rVB  | 95269  | 241144 | 53.29%  | 11.224% |
| 39 | 7.830  | 970  | 972  | 975  | rBV2 | 291    | 345    | 0.08%   | 0.016%  |
| 40 | 7.909  | 984  | 985  | 986  | rBV  | 437    | 265    | 0.06%   | 0.012%  |
| 41 | 7.945  | 986  | 991  | 1000 | rVB5 | 3368   | 8086   | 1.79%   | 0.376%  |
| 42 | 8.275  | 1034 | 1045 | 1059 | rBV2 | 148258 | 452555 | 100.00% | 21.063% |
| 43 | 8.439  | 1069 | 1072 | 1075 | rBV2 | 457    | 735    | 0.16%   | 0.034%  |
| 44 | 8.622  | 1100 | 1102 | 1106 | rVB4 | 408    | 429    | 0.09%   | 0.020%  |
| 45 | 8.714  | 1114 | 1117 | 1118 | rBV2 | 336    | 395    | 0.09%   | 0.018%  |
| 46 | 8.726  | 1118 | 1119 | 1121 | rVV2 | 488    | 274    | 0.06%   | 0.013%  |
| 47 | 8.774  | 1124 | 1127 | 1129 | rVB  | 339    | 385    | 0.09%   | 0.018%  |
| 48 | 8.842  | 1129 | 1138 | 1148 | rBV  | 64635  | 131008 | 28.95%  | 6.098%  |
| 49 | 8.915  | 1148 | 1150 | 1151 | rBV  | 373    | 274    | 0.06%   | 0.013%  |
| 50 | 8.957  | 1156 | 1157 | 1159 | rBV2 | 263    | 239    | 0.05%   | 0.011%  |
| 51 | 9.006  | 1162 | 1165 | 1169 | rBV2 | 375    | 490    | 0.11%   | 0.023%  |
| 52 | 9.140  | 1184 | 1187 | 1188 | rVB2 | 287    | 217    | 0.05%   | 0.010%  |
| 53 | 9.152  | 1188 | 1189 | 1192 | rVB2 | 314    | 294    | 0.06%   | 0.014%  |
| 54 | 9.189  | 1192 | 1195 | 1196 | rBV2 | 248    | 214    | 0.05%   | 0.010%  |
| 55 | 9.274  | 1201 | 1209 | 1216 | rBV  | 120069 | 252795 | 55.86%  | 11.766% |
| 56 | 9.427  | 1233 | 1234 | 1238 | rVB  | 357    | 327    | 0.07%   | 0.015%  |
| 57 | 9.470  | 1238 | 1241 | 1244 | rBV2 | 227    | 364    | 0.08%   | 0.017%  |
| 58 | 9.506  | 1244 | 1247 | 1248 | rBV  | 353    | 359    | 0.08%   | 0.017%  |
| 59 | 9.604  | 1261 | 1263 | 1265 | rVV  | 415    | 301    | 0.07%   | 0.014%  |
| 60 | 9.652  | 1268 | 1271 | 1272 | rVV2 | 574    | 680    | 0.15%   | 0.032%  |
| 61 | 9.665  | 1272 | 1273 | 1278 | rVV4 | 1021   | 1146   | 0.25%   | 0.053%  |
| 62 | 9.707  | 1278 | 1280 | 1281 | rVB  | 458    | 276    | 0.06%   | 0.013%  |
| 63 | 9.768  | 1286 | 1290 | 1291 | rBV2 | 450    | 557    | 0.12%   | 0.026%  |
| 64 | 10.036 | 1327 | 1334 | 1341 | rBV2 | 19151  | 36425  | 8.05%   | 1.695%  |
| 65 | 10.238 | 1364 | 1367 | 1369 | rVB2 | 594    | 553    | 0.12%   | 0.026%  |
| 66 | 10.268 | 1370 | 1372 | 1373 | rVB  | 439    | 235    | 0.05%   | 0.011%  |
| 67 | 10.323 | 1373 | 1381 | 1388 | rBV  | 85594  | 149837 | 33.11%  | 6.974%  |
| 68 | 10.500 | 1401 | 1410 | 1413 | rBV6 | 1109   | 3081   | 0.68%   | 0.143%  |
| 69 | 10.579 | 1417 | 1423 | 1431 | rBV3 | 8372   | 15003  | 3.32%   | 0.698%  |
| 70 | 10.664 | 1435 | 1437 | 1438 | rBV2 | 1094   | 920    | 0.20%   | 0.043%  |
| 71 | 10.701 | 1438 | 1443 | 1450 | rVB2 | 8790   | 15340  | 3.39%   | 0.714%  |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 C0BR2

## 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\_W\METHOD\SOM2WLM111119S.M  
 Title : VOC Analysis

|     |        |      |      |      |      |       |        |        |        |
|-----|--------|------|------|------|------|-------|--------|--------|--------|
| 72  | 10.927 | 1474 | 1480 | 1493 | rBV  | 53076 | 105210 | 23.25% | 4.897% |
| 73  | 11.628 | 1590 | 1595 | 1605 | rVB2 | 35561 | 61327  | 13.55% | 2.854% |
| 74  | 12.469 | 1730 | 1733 | 1735 | rBV3 | 595   | 512    | 0.11%  | 0.024% |
| 75  | 12.518 | 1739 | 1741 | 1743 | rBV2 | 396   | 444    | 0.10%  | 0.021% |
| 76  | 12.603 | 1749 | 1755 | 1763 | rVB  | 22528 | 37866  | 8.37%  | 1.762% |
| 77  | 12.688 | 1763 | 1769 | 1778 | rBV  | 70262 | 119508 | 26.41% | 5.562% |
| 78  | 12.780 | 1780 | 1784 | 1786 | rVV4 | 724   | 1152   | 0.25%  | 0.054% |
| 79  | 12.816 | 1788 | 1790 | 1792 | rVB  | 472   | 365    | 0.08%  | 0.017% |
| 80  | 12.841 | 1792 | 1794 | 1796 | rBV  | 389   | 304    | 0.07%  | 0.014% |
| 81  | 12.865 | 1796 | 1798 | 1800 | rBV  | 643   | 567    | 0.13%  | 0.026% |
| 82  | 12.890 | 1800 | 1802 | 1804 | rVV2 | 516   | 440    | 0.10%  | 0.020% |
| 83  | 12.932 | 1805 | 1809 | 1816 | rVB4 | 1015  | 1637   | 0.36%  | 0.076% |
| 84  | 13.005 | 1819 | 1821 | 1822 | rBV  | 265   | 285    | 0.06%  | 0.013% |
| 85  | 13.036 | 1824 | 1826 | 1830 | rVB2 | 425   | 402    | 0.09%  | 0.019% |
| 86  | 13.109 | 1836 | 1838 | 1839 | rVB2 | 395   | 212    | 0.05%  | 0.010% |
| 87  | 13.152 | 1843 | 1845 | 1847 | rBV2 | 606   | 578    | 0.13%  | 0.027% |
| 88  | 13.243 | 1858 | 1860 | 1861 | rBV  | 384   | 285    | 0.06%  | 0.013% |
| 89  | 13.414 | 1881 | 1888 | 1891 | rBV3 | 1865  | 2847   | 0.63%  | 0.133% |
| 90  | 13.438 | 1891 | 1892 | 1894 | rVB  | 570   | 309    | 0.07%  | 0.014% |
| 91  | 13.469 | 1894 | 1897 | 1898 | rBV2 | 516   | 411    | 0.09%  | 0.019% |
| 92  | 13.560 | 1907 | 1912 | 1917 | rBV  | 9530  | 16239  | 3.59%  | 0.756% |
| 93  | 13.755 | 1942 | 1944 | 1946 | rBV2 | 1218  | 988    | 0.22%  | 0.046% |
| 94  | 13.853 | 1955 | 1960 | 1965 | rBV3 | 12072 | 21068  | 4.66%  | 0.981% |
| 95  | 14.072 | 1989 | 1996 | 2001 | rVB2 | 11762 | 19707  | 4.35%  | 0.917% |
| 96  | 14.121 | 2003 | 2004 | 2005 | rBV  | 500   | 203    | 0.04%  | 0.009% |
| 97  | 14.328 | 2034 | 2038 | 2045 | rVB5 | 1131  | 2106   | 0.47%  | 0.098% |
| 98  | 14.377 | 2045 | 2046 | 2048 | rBV2 | 516   | 310    | 0.07%  | 0.014% |
| 99  | 14.523 | 2069 | 2070 | 2076 | rBV2 | 759   | 780    | 0.17%  | 0.036% |
| 100 | 15.493 | 2225 | 2229 | 2234 | rVB2 | 4082  | 6530   | 1.44%  | 0.304% |

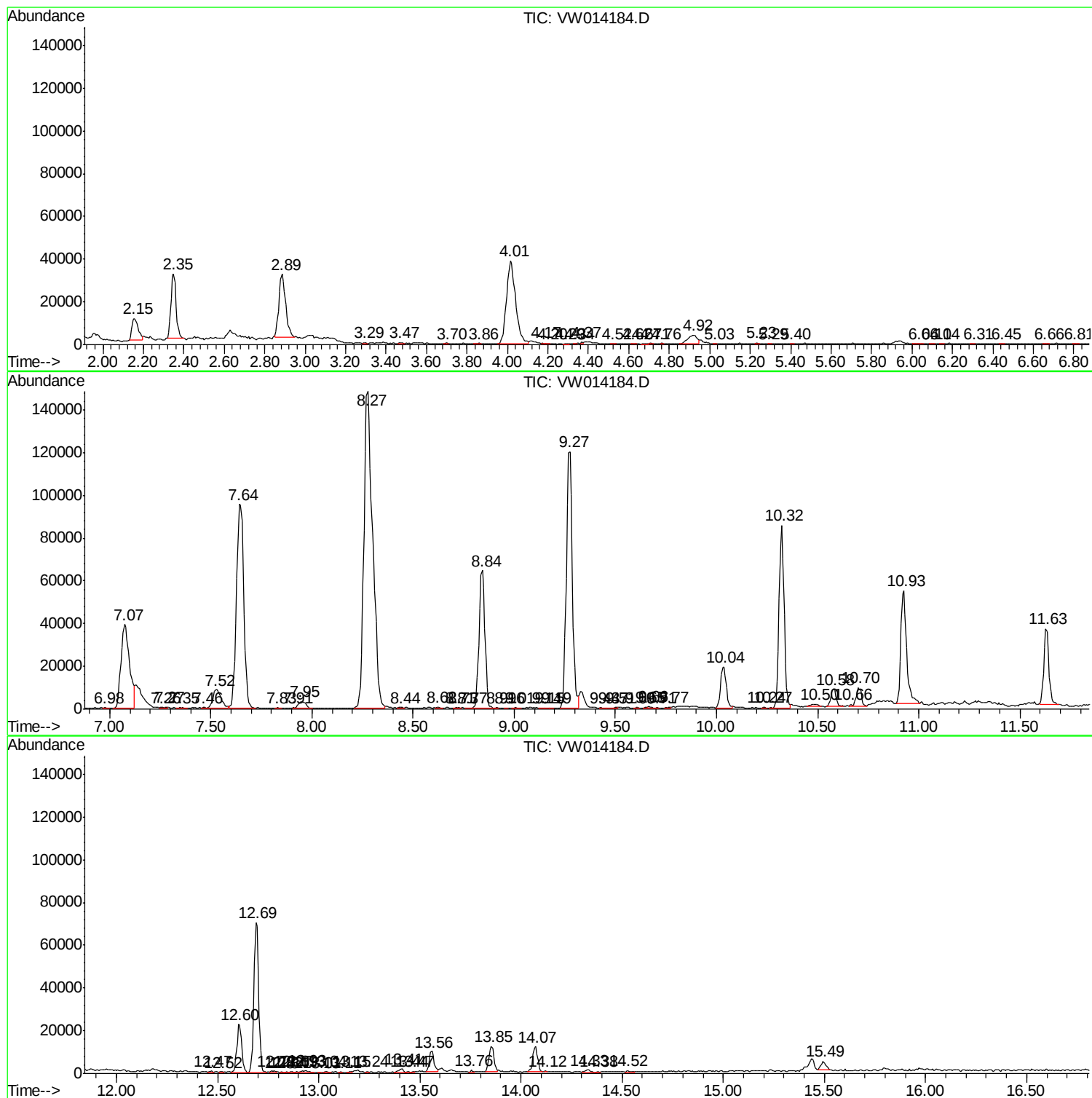
Sum of corrected areas: 2148545

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Data File : VW014184.D  
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Sample : K6089-14  
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Instrument :  
MSVOA\_W  
ClientSampleId :  
C0BR2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW112919\  
Data File : VW014184.D  
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Operator : SY/VA  
Sample : K6089-14  
Misc : 3.19G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0BR2

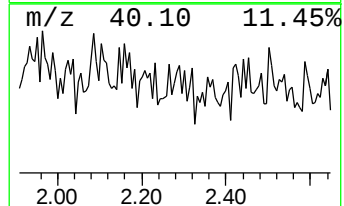
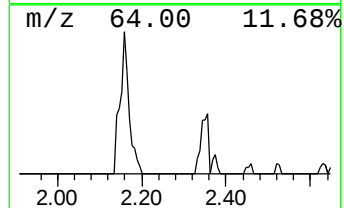
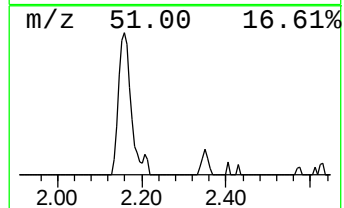
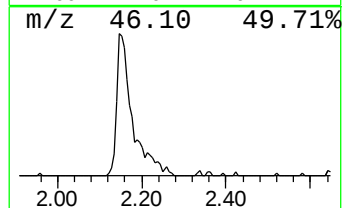
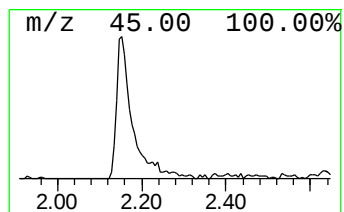
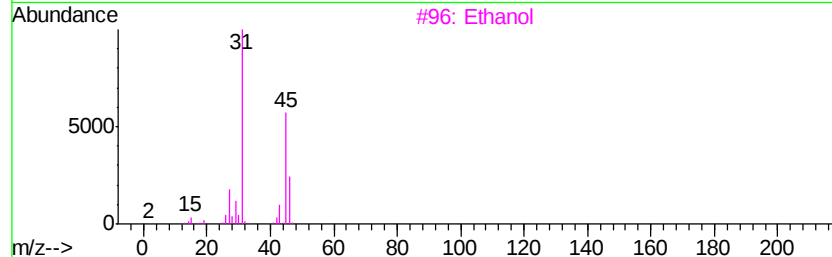
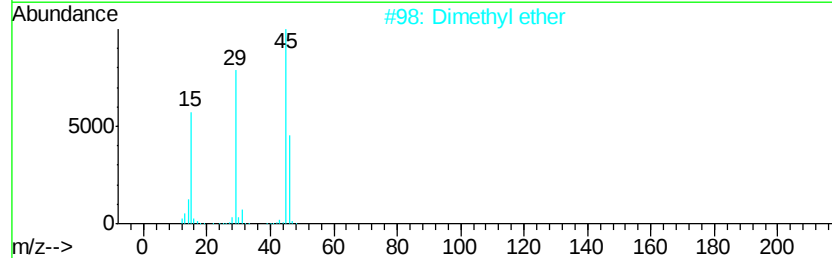
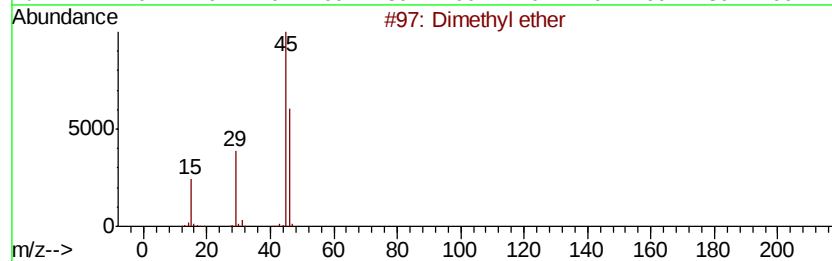
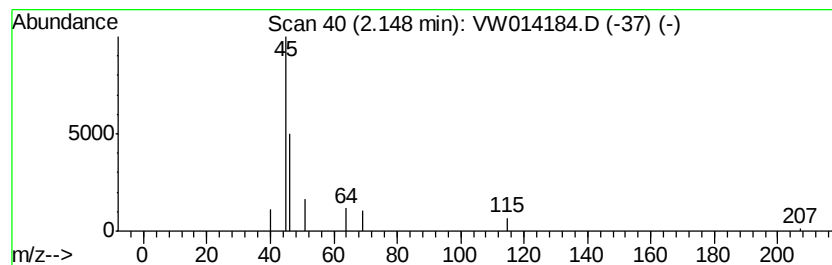
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
Quant Title : VOC Analysis

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

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Peak Number 1 unknown-01 Concentration Rank 8

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.15 | 4.35 ug/L | 22810 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | Tentative ID   | MW | MolForm | CAS#        | Qual |
|------|----|----------------|----|---------|-------------|------|
| 1    | 5  | Dimethyl ether | 46 | C2H6O   | 000115-10-6 | 5    |
| 2    |    | Dimethyl ether | 46 | C2H6O   | 000115-10-6 | 5    |
| 3    |    | Ethanol        | 46 | C2H6O   | 000064-17-5 | 4    |
| 4    |    | Ethanol        | 46 | C2H6O   | 000064-17-5 | 4    |
| 5    |    | Ethanol        | 46 | C2H6O   | 000064-17-5 | 4    |



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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
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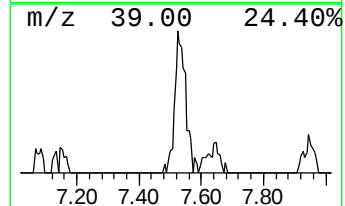
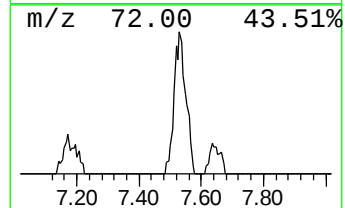
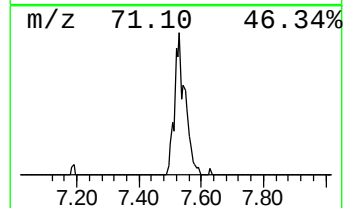
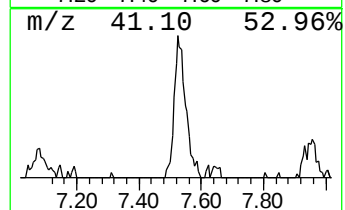
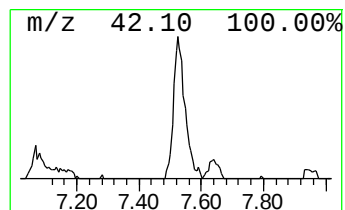
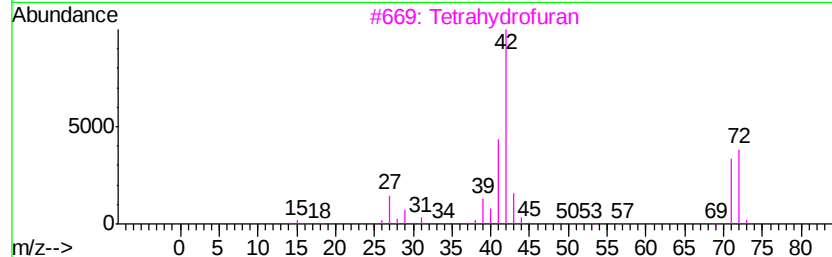
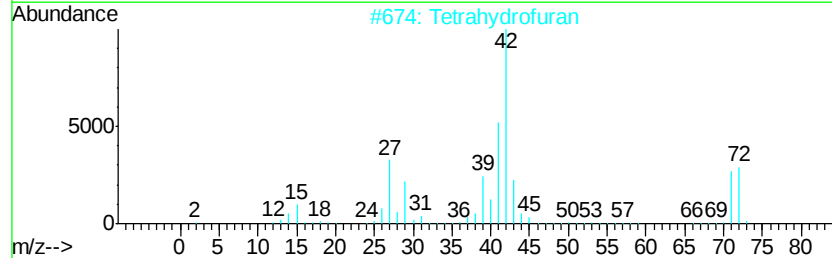
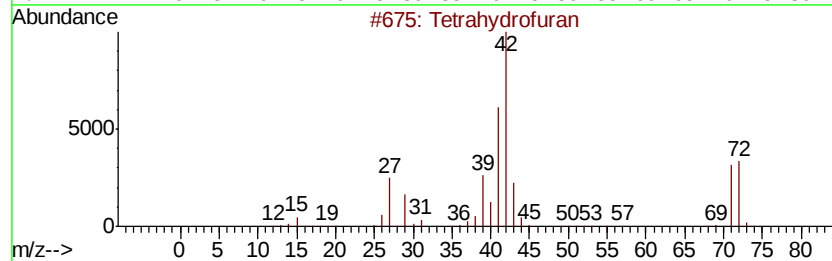
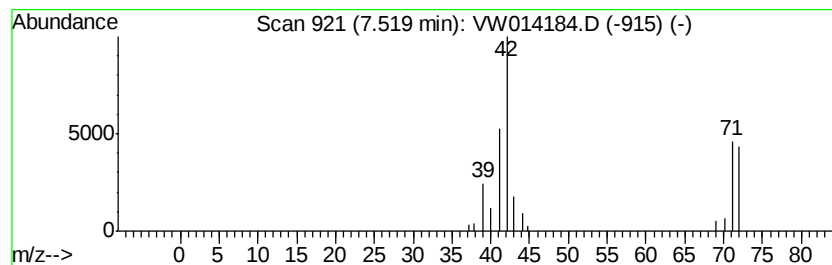
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
Quant Title : VOC Analysis

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

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Peak Number 2 Tetrahydrofuran Concentration Rank 6

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 7.52 | 4.59 ug/L | 24039 | 1,4-Difluorobenzene | 8.84 |

| Hit# | of | 5 | Tentative ID          | MW | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|----|---------|-------------|------|
| 1    |    |   | Tetrahydrofuran       | 72 | C4H8O   | 000109-99-9 | 86   |
| 2    |    |   | Tetrahydrofuran       | 72 | C4H8O   | 000109-99-9 | 83   |
| 3    |    |   | Tetrahydrofuran       | 72 | C4H8O   | 000109-99-9 | 78   |
| 4    |    |   | Oxirane, ethyl-       | 72 | C4H8O   | 000106-88-7 | 72   |
| 5    |    |   | 1-Propene, 2-methoxy- | 72 | C4H8O   | 000116-11-0 | 50   |



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Acq On : 29 Nov 2019 16:26  
Operator : SY/VA  
Sample : K6089-14  
Misc : 3.19G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0BR2

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.M  
Quant Title : VOC Analysis

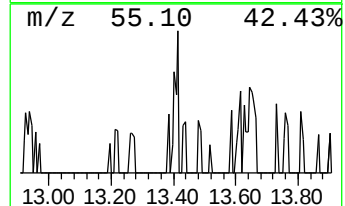
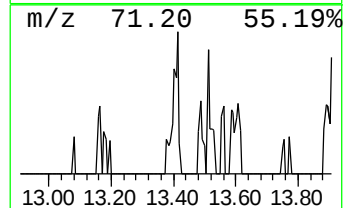
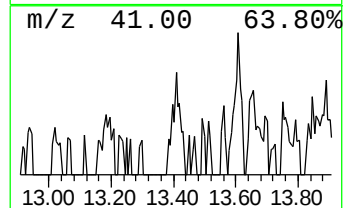
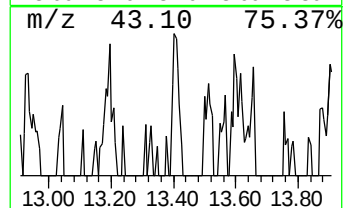
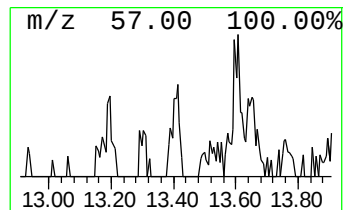
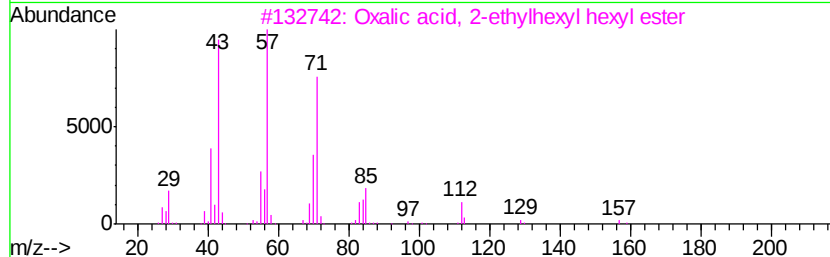
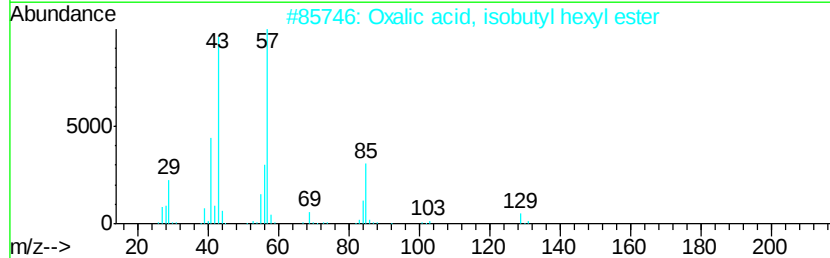
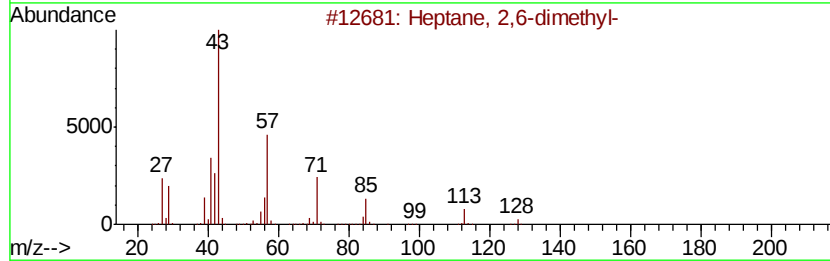
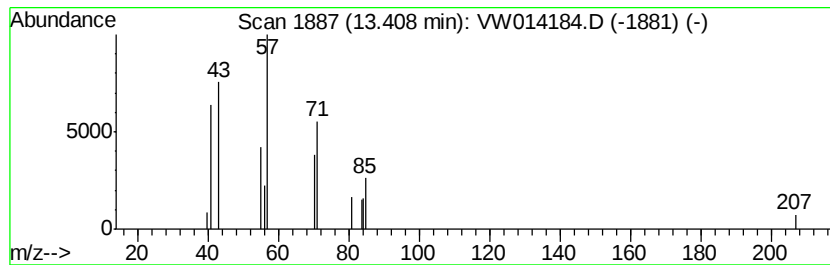
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T.  | EstConc   | Area | Relative to ISTD       | R.T.  |
|-------|-----------|------|------------------------|-------|
| 13.41 | 4.38 ug/L | 2847 | 1,4-Dichlorobenzene-d4 | 13.56 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Heptane, 2,6-dimethyl-              | 128 | C9H20    | 001072-05-5  | 40   |
| 2    |    | Oxalic acid, isobutyl hexyl ester   | 230 | C12H22O4 | 1000309-37-1 | 38   |
| 3    |    | Oxalic acid, 2-ethylhexyl hexyl ... | 286 | C16H30O4 | 1000309-38-9 | 38   |
| 4    |    | Decane, 3-methyl-                   | 156 | C11H24   | 013151-34-3  | 38   |
| 5    |    | 1-Hexanol, 5-methyl-2-(1-methyle... | 158 | C10H22O  | 002051-33-4  | 38   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW112919\  
Data File : VW014184.D  
Acq On : 29 Nov 2019 16:26  
Operator : SY/VA  
Sample : K6089-14  
Misc : 3.19G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
C0BR2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM111119S.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 |
| unknown-01           | 2.15  | 4.3     | ug/L  | 22810    | 1                     | 8.84  | 131008 | 25.0 |
| Tetrahydrofuran      | 7.52  | 4.6     | ug/L  | 24039    | 1                     | 8.84  | 131008 | 25.0 |
| (DEL) Alkane: Str... | 13.41 | 4.4     | ug/L  | 2847     | 3                     | 13.56 | 16239  | 25.0 |