

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU013120\  
 Data File : VU036654.D  
 Acq On : 31 Jan 2020 20:31  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV35

Quant Time: Feb 01 00:24:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM013120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Feb 01 00:19:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 289887   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 271183   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 122347   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 131752   | 49.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 99.70%  |
| 7) Chloroethane-d5             | 1.91    | 69    | 103012   | 48.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 96.82%  |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 207899   | 50.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 100.52% |
| 21) 2-Butanone-d5              | 4.68    | 46    | 153269   | 94.20    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 94.20%  |
| 24) Chloroform-d               | 5.11    | 84    | 194182   | 49.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.18%  |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 126705   | 49.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.80%  |
| 32) Benzene-d6                 | 5.77    | 84    | 410278   | 49.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.92%  |
| 36) 1,2-Dichloropropane-d6     | 6.73    | 67    | 135082   | 49.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 99.14%  |
| 41) Toluene-d8                 | 7.93    | 98    | 379525   | 50.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.20% |
| 43) trans-1,3-Dichloropropene- | 8.21    | 79    | 65346    | 49.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 99.58%  |
| 47) 2-Hexanone-d5              | 8.67    | 63    | 154219   | 102.54   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 102.54% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78   | 84    | 191978   | 50.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 100.12% |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 128177   | 49.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.42%  |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 118670 | 51.950  | ug/L 100 |
| 3) Chloromethane               | 1.54 | 50  | 141034 | 50.502  | ug/L 100 |
| 5) Vinyl chloride              | 1.62 | 62  | 148674 | 51.788  | ug/L 99  |
| 6) Bromomethane                | 1.85 | 94  | 78989  | 55.024  | ug/L 98  |
| 8) Chloroethane                | 1.93 | 64  | 85717  | 50.130  | ug/L 99  |
| 9) Trichlorofluoromethane      | 2.15 | 101 | 161898 | 51.549  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101 | 93196  | 51.529  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 94630  | 51.437  | ug/L 99  |
| 13) Acetone                    | 2.66 | 43  | 135000 | 97.568  | ug/L 100 |
| 14) Carbon disulfide           | 2.82 | 76  | 292513 | 52.096  | ug/L 99  |
| 15) Methyl Acetate             | 2.98 | 43  | 130638 | 51.855  | ug/L 100 |
| 16) Methylene chloride         | 3.08 | 84  | 115732 | 50.054  | ug/L 97  |
| 17) trans-1,2-Dichloroethene   | 3.39 | 96  | 101294 | 51.814  | ug/L 99  |
| 18) Methyl tert-butyl Ether    | 3.41 | 73  | 360116 | 52.026  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 201925 | 51.618  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 4.71 | 96  | 116263 | 51.508  | ug/L 99  |
| 22) 2-Butanone                 | 4.75 | 43  | 194550 | 102.839 | ug/L 98  |

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 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV35

Quant Time: Feb 01 00:24:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM013120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Feb 01 00:19:17 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 53894    | 52.045  | ug/L  | 97       |
| 25) Chloroform                  | 5.13  | 83   | 193959   | 51.681  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.84  | 62   | 159679   | 52.044  | ug/L  | 99       |
| 29) Cyclohexane                 | 5.43  | 56   | 192028   | 52.446  | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane       | 5.36  | 97   | 159445   | 52.766  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 130124   | 53.076  | ug/L  | 98       |
| 33) Benzene                     | 5.81  | 78   | 454301   | 52.571  | ug/L  | 100      |
| 34) Trichloroethene             | 6.58  | 95   | 110467   | 52.558  | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.80  | 83   | 189034   | 52.486  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.83  | 63   | 124049   | 52.955  | ug/L  | 100      |
| 38) Bromodichloromethane        | 7.14  | 83   | 147160   | 52.245  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene     | 7.64  | 75   | 195927   | 52.843  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.83  | 43   | 372247   | 105.220 | ug/L  | 100      |
| 42) Toluene                     | 8.00  | 91   | 482539   | 52.035  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 8.24  | 75   | 171973   | 52.537  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 110343   | 52.197  | ug/L  | 99       |
| 46) Tetrachloroethene           | 8.58  | 164  | 78029    | 50.442  | ug/L  | 99       |
| 48) 2-Hexanone                  | 8.72  | 43   | 293024   | 106.920 | ug/L  | 100      |
| 49) Dibromochloromethane        | 8.84  | 129  | 109826   | 52.790  | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 117277   | 52.639  | ug/L  | 98       |
| 51) Chlorobenzene               | 9.47  | 112  | 288392   | 52.258  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.60  | 91   | 532948   | 52.425  | ug/L  | 100      |
| 53) m,p-Xylene                  | 9.72  | 106  | 198352   | 52.902  | ug/L  | 98       |
| 54) o-xylene                    | 10.12 | 106  | 197672   | 52.335  | ug/L  | 98       |
| 55) Styrene                     | 10.14 | 104  | 338936   | 52.792  | ug/L  | 100      |
| 56) Isopropylbenzene            | 10.51 | 105  | 516042   | 52.961  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.81 | 83   | 198154   | 51.974  | ug/L  | 97       |
| 59) 1,2,3-Trichloropropane      | 10.85 | 75   | 160932   | 51.759  | ug/L  | 99       |
| 61) Bromoform                   | 10.32 | 173  | 80294    | 52.789  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.77 | 146  | 214398   | 52.975  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.86 | 146  | 211777   | 52.643  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 12.23 | 146  | 215110   | 52.833  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.01 | 75   | 45389    | 53.610  | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 144472   | 53.026  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.85 | 180  | 121940   | 53.823  | ug/L  | 99       |
| 69) Naphthalene                 | 14.10 | 128  | 461438   | 53.075  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.34 | 180  | 124308   | 53.020  | ug/L  | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

