

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011420\  
 Data File : VU036455.D  
 Acq On : 14 Jan 2020 21:09  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV02

Quant Time: Jan 15 00:44:41 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM011420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jan 15 00:18:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 512334   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 490935   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 216783   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 158096   | 47.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 95.20%  |
| 7) Chloroethane-d5             | 1.93    | 69    | 137354   | 47.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 95.54%  |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 308133   | 48.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.62%  |
| 21) 2-Butanone-d5              | 4.68    | 46    | 285432   | 99.95    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 99.95%  |
| 24) Chloroform-d               | 5.11    | 84    | 327933   | 49.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.18%  |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 218801   | 49.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.54%  |
| 32) Benzene-d6                 | 5.77    | 84    | 635823   | 49.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.04%  |
| 36) 1,2-Dichloropropane-d6     | 6.73    | 67    | 207250   | 49.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 99.26%  |
| 41) Toluene-d8                 | 7.93    | 98    | 608239   | 50.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.18% |
| 43) trans-1,3-Dichloropropene- | 8.21    | 79    | 111940   | 49.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 99.52%  |
| 47) 2-Hexanone-d5              | 8.67    | 63    | 217128   | 101.47   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 101.47% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78   | 84    | 313953   | 49.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 99.98%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 219872   | 51.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.98% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc    | Units | Ovalue |
|--------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85   | 227505   | 47.917  | ug/L  | 99     |
| 3) Chloromethane               | 1.54 | 50   | 211073   | 49.370  | ug/L  | 99     |
| 5) Vinyl chloride              | 1.62 | 62   | 207241   | 48.836  | ug/L  | 99     |
| 6) Bromomethane                | 1.87 | 94   | 128178   | 49.671  | ug/L  | 97     |
| 8) Chloroethane                | 1.95 | 64   | 120247   | 47.901  | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 2.16 | 101  | 284935   | 49.298  | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101  | 150051   | 49.102  | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.60 | 96   | 151062   | 49.887  | ug/L  | 91     |
| 13) Acetone                    | 2.66 | 43   | 286328   | 92.640  | ug/L  | 99     |
| 14) Carbon disulfide           | 2.82 | 76   | 487603   | 49.787  | ug/L  | 100    |
| 15) Methyl Acetate             | 2.99 | 43   | 204703   | 49.526  | ug/L  | 99     |
| 16) Methylene chloride         | 3.08 | 84   | 182272   | 48.925  | ug/L  | 97     |
| 17) trans-1,2-Dichloroethene   | 3.39 | 96   | 162284   | 48.883  | ug/L  | 99     |
| 18) Methyl tert-butyl Ether    | 3.41 | 73   | 551735   | 48.768  | ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.92 | 63   | 310241   | 49.500  | ug/L  | 98     |
| 20) cis-1,2-Dichloroethene     | 4.71 | 96   | 187441   | 49.245  | ug/L  | 95     |
| 22) 2-Butanone                 | 4.76 | 43   | 351412   | 100.189 | ug/L  | 96     |

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

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV02

Quant Time: Jan 15 00:44:41 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM011420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jan 15 00:18:03 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 90782    | 49.369  | ug/L  | 99       |
| 25) Chloroform                  | 5.13  | 83   | 334657   | 50.068  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.84  | 62   | 264493   | 49.962  | ug/L  | 100      |
| 29) Cyclohexane                 | 5.43  | 56   | 284468   | 48.311  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 5.36  | 97   | 293974   | 50.419  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 5.56  | 117  | 253260   | 50.680  | ug/L  | 98       |
| 33) Benzene                     | 5.82  | 78   | 695739   | 49.319  | ug/L  | 100      |
| 34) Trichloroethene             | 6.58  | 95   | 198281   | 52.053  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.80  | 83   | 288122   | 49.129  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.83  | 63   | 184099   | 49.241  | ug/L  | 100      |
| 38) Bromodichloromethane        | 7.14  | 83   | 249766   | 48.541  | ug/L  | 96       |
| 39) cis-1,3-Dichloropropene     | 7.64  | 75   | 289701   | 47.863  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.83  | 43   | 587818   | 97.733  | ug/L  | 98       |
| 42) Toluene                     | 8.00  | 91   | 775025   | 50.583  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 8.24  | 75   | 277489   | 49.491  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 177610   | 49.699  | ug/L  | 98       |
| 46) Tetrachloroethene           | 8.58  | 164  | 129823   | 50.667  | ug/L  | 94       |
| 48) 2-Hexanone                  | 8.72  | 43   | 494432   | 103.940 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.84  | 129  | 204961   | 51.560  | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.95  | 107  | 204434   | 50.465  | ug/L  | 99       |
| 51) Chlorobenzene               | 9.47  | 112  | 487548   | 50.604  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.60  | 91   | 863165   | 50.438  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.72  | 106  | 328771   | 51.374  | ug/L  | 97       |
| 54) o-xylene                    | 10.12 | 106  | 318044   | 49.782  | ug/L  | 97       |
| 55) Styrene                     | 10.14 | 104  | 530092   | 51.159  | ug/L  | 98       |
| 56) Isopropylbenzene            | 10.51 | 105  | 836454   | 51.012  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.81 | 83   | 302023   | 48.599  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.85 | 75   | 254349   | 49.333  | ug/L  | 97       |
| 61) Bromoform                   | 10.32 | 173  | 146534   | 49.634  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.77 | 146  | 355588   | 52.091  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.86 | 146  | 352105   | 51.334  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 12.23 | 146  | 347665   | 51.634  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 73632    | 49.728  | ug/L  | 95       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 215648   | 52.242  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.86 | 180  | 163110   | 53.620  | ug/L  | 98       |
| 69) Naphthalene                 | 14.10 | 128  | 565547   | 55.019  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.35 | 180  | 169854   | 53.823  | ug/L  | 98       |

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

