

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031119\  
 Data File : VU029916.D  
 Acq On : 09 Mar 2019 13:14  
 Operator : JC/SP  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VICV47

Quant Time: Mar 11 02:24:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031119WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Mar 11 02:20:19 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 563492   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 541027   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 285199   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 167334   | 48.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 97.34%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 136477   | 47.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 94.44%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 311735   | 48.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.20%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 268544   | 100.82   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 100.82% |
| 24) Chloroform-d               | 4.64    | 84    | 325839   | 48.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 188876   | 48.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.36%  |
| 32) Benzene-d6                 | 5.34    | 84    | 679013   | 50.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.74% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 204136   | 50.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.26% |
| 41) Toluene-d8                 | 7.56    | 98    | 652543   | 50.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.88% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 99687    | 50.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 101.16% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 229514   | 104.75   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 104.75% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 321721   | 50.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 100.08% |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 274524   | 49.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.16%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85   | 216570   | 49.882 | ug/L  | 99     |
| 3) Chloromethane               | 1.33 | 50   | 273691   | 48.117 | ug/L  | 99     |
| 5) Vinyl chloride              | 1.40 | 62   | 221571   | 50.284 | ug/L  | 99     |
| 6) Bromomethane                | 1.62 | 94   | 67001    | 57.354 | ug/L  | 99     |
| 8) Chloroethane                | 1.69 | 64   | 131875   | 48.931 | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 1.88 | 101  | 288800   | 49.492 | ug/L  | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101  | 177227   | 49.349 | ug/L  | 100    |
| 12) 1,1-Dichloroethene         | 2.28 | 96   | 171196   | 49.121 | ug/L  | 96     |
| 13) Acetone                    | 2.32 | 43   | 260895   | 89.792 | ug/L  | 99     |
| 14) Carbon disulfide           | 2.47 | 76   | 550410   | 50.672 | ug/L  | 99     |
| 15) Methyl Acetate             | 2.61 | 43   | 198599   | 49.509 | ug/L  | 98     |
| 16) Methylene chloride         | 2.70 | 84   | 197128   | 48.242 | ug/L  | 99     |
| 17) trans-1,2-Dichloroethene   | 2.98 | 96   | 187296   | 50.691 | ug/L  | 97     |
| 18) Methyl tert-butyl Ether    | 3.00 | 73   | 449592   | 48.611 | ug/L  | 100    |
| 19) 1,1-Dichloroethane         | 3.44 | 63   | 312252   | 49.010 | ug/L  | 100    |
| 20) cis-1,2-Dichloroethene     | 4.22 | 96   | 211908   | 50.263 | ug/L  | 98     |
| 22) 2-Butanone                 | 4.26 | 43   | 324503   | 97.566 | ug/L  | 99     |

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 Quant Title : VOC Analysis  
 QLast Update : Mon Mar 11 02:20:19 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane         | 4.54  | 128  | 105039   | 49.561  | ug/L  | 98       |
| 25) Chloroform                 | 4.67  | 83   | 329107   | 48.004  | ug/L  | 100      |
| 27) 1,2-Dichloroethane         | 5.40  | 62   | 237675   | 48.744  | ug/L  | 99       |
| 29) Cyclohexane                | 4.99  | 56   | 285604   | 51.554  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane      | 4.91  | 97   | 281027   | 51.568  | ug/L  | 99       |
| 31) Carbon tetrachloride       | 5.13  | 117  | 244199   | 50.747  | ug/L  | 100      |
| 33) Benzene                    | 5.39  | 78   | 738757   | 51.116  | ug/L  | 100      |
| 34) Trichloroethene            | 6.18  | 95   | 199690   | 51.268  | ug/L  | 97       |
| 35) Methylcyclohexane          | 6.41  | 83   | 322918   | 51.955  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.43  | 63   | 191378   | 50.813  | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.75  | 83   | 241872   | 51.298  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.27  | 75   | 294195   | 51.326  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.46  | 43   | 521728   | 103.886 | ug/L  | 99       |
| 42) Toluene                    | 7.63  | 91   | 820396   | 51.928  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.87  | 75   | 271890   | 53.243  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 8.06  | 97   | 193187   | 50.530  | ug/L  | 98       |
| 46) Tetrachloroethene          | 8.22  | 164  | 172591   | 51.450  | ug/L  | 100      |
| 48) 2-Hexanone                 | 8.36  | 43   | 431480   | 101.631 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.47  | 129  | 212966   | 50.893  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.58  | 107  | 211600   | 51.352  | ug/L  | 99       |
| 51) Chlorobenzene              | 9.12  | 112  | 541756   | 50.668  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.25  | 91   | 904786   | 51.777  | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.37  | 106  | 349378   | 52.226  | ug/L  | 98       |
| 54) o-xylene                   | 9.77  | 106  | 347431   | 52.164  | ug/L  | 99       |
| 55) Styrene                    | 9.79  | 104  | 567440   | 52.515  | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.16 | 105  | 905198   | 52.480  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.45 | 83   | 331770   | 50.113  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.49 | 75   | 250503   | 50.176  | ug/L  | 99       |
| 61) Bromoform                  | 9.95  | 173  | 169383   | 51.008  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.41 | 146  | 444779   | 51.012  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146  | 457161   | 51.204  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 11.87 | 146  | 452577   | 50.887  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75   | 70566    | 50.626  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 12.88 | 180  | 346032   | 52.291  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180  | 323604   | 54.815  | ug/L  | 99       |
| 69) Naphthalene                | 13.74 | 128  | 1088460  | 59.660  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 334818   | 54.013  | ug/L  | 99       |

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

