

Data File : VU033662.D  
Acq On : 09 Aug 2019 01:05  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05054

Quant Time: Aug 09 07:46:22 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080819WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Aug 09 07:39:51 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 292427   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 294332   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 154923   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 138894   | 42.07    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 84.14% |
| 7) Chloroethane-d5             | 1.67    | 69    | 124864   | 44.69    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 89.38% |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 229974   | 43.09    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 86.18% |
| 21) 2-Butanone-d5              | 4.15    | 46    | 231461   | 95.74    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 95.74% |
| 24) Chloroform-d               | 4.62    | 84    | 245023   | 44.79    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.58% |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 163109   | 46.24    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.48% |
| 32) Benzene-d6                 | 5.32    | 84    | 506349   | 46.13    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.26% |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 163111   | 46.74    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.48% |
| 41) Toluene-d8                 | 7.55    | 98    | 473258   | 46.64    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.28% |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 77423    | 45.33    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.66% |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 173685   | 99.40    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 99.40% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 257818   | 47.22    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 94.44% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 195440   | 46.17    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.34% |

#### Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 123397 | 45.825 ug/L | 98     |
| 3) Chloromethane               | 1.32 | 50  | 129580 | 44.132 ug/L | 99     |
| 5) Vinyl chloride              | 1.40 | 62  | 145315 | 45.783 ug/L | 100    |
| 6) Bromomethane                | 1.62 | 94  | 80810  | 37.901 ug/L | 99     |
| 8) Chloroethane                | 1.69 | 64  | 91582  | 46.261 ug/L | 97     |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 197006 | 46.755 ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 97206  | 44.872 ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 95135  | 45.991 ug/L | 98     |
| 13) Acetone                    | 2.31 | 43  | 126895 | 77.159 ug/L | 99     |
| 14) Carbon disulfide           | 2.46 | 76  | 283411 | 45.769 ug/L | 99     |
| 15) Methyl Acetate             | 2.60 | 43  | 130724 | 48.756 ug/L | 99     |
| 16) Methylene chloride         | 2.68 | 84  | 115944 | 47.276 ug/L | 98     |
| 17) trans-1,2-Dichloroethene   | 2.96 | 96  | 100694 | 46.718 ug/L | 99     |
| 18) Methyl tert-butyl Ether    | 2.98 | 73  | 323632 | 47.805 ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 198505 | 47.209 ug/L | 100    |
| 20) cis-1,2-Dichloroethene     | 4.20 | 96  | 116502 | 48.000 ug/L | 98     |
| 22) 2-Butanone                 | 4.23 | 43  | 190010 | 92.033 ug/L | 100    |

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ClientSampleId :  
VSTD05054

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Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane         | 4.52  | 128  | 60799    | 47.370  | ug/L  | 99       |
| 25) Chloroform                 | 4.65  | 83   | 214249   | 48.642  | ug/L  | 94       |
| 27) 1,2-Dichloroethane         | 5.38  | 62   | 163580   | 47.913  | ug/L  | 99       |
| 29) Cyclohexane                | 4.97  | 56   | 161070   | 47.366  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane      | 4.89  | 97   | 170603   | 46.171  | ug/L  | 99       |
| 31) Carbon tetrachloride       | 5.11  | 117  | 152559   | 46.681  | ug/L  | 100      |
| 33) Benzene                    | 5.37  | 78   | 443931   | 47.778  | ug/L  | 100      |
| 34) Trichloroethene            | 6.16  | 95   | 112007   | 46.997  | ug/L  | 99       |
| 35) Methylcyclohexane          | 6.40  | 83   | 170743   | 46.778  | ug/L  | 100      |
| 37) 1,2-Dichloropropane        | 6.41  | 63   | 121628   | 48.433  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.74  | 83   | 155553   | 47.884  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.25  | 75   | 172503   | 46.147  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone       | 7.44  | 43   | 366451   | 100.587 | ug/L  | 99       |
| 42) Toluene                    | 7.62  | 91   | 483444   | 48.517  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 163961   | 46.601  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 112895   | 47.172  | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.21  | 164  | 91382    | 47.263  | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.34  | 43   | 294601   | 98.084  | ug/L  | 98       |
| 49) Dibromochloromethane       | 8.46  | 129  | 129189   | 47.374  | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 126830   | 48.844  | ug/L  | 98       |
| 51) Chlorobenzene              | 9.10  | 112  | 312888   | 48.012  | ug/L  | 97       |
| 52) Ethylbenzene               | 9.23  | 91   | 523569   | 48.908  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.36  | 106  | 200410   | 49.401  | ug/L  | 96       |
| 54) o-xylene                   | 9.76  | 106  | 198840   | 49.446  | ug/L  | 97       |
| 55) Styrene                    | 9.77  | 104  | 343700   | 50.232  | ug/L  | 100      |
| 56) Isopropylbenzene           | 10.15 | 105  | 506817   | 48.934  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 208063   | 47.340  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.48 | 75   | 166308   | 48.502  | ug/L  | 99       |
| 61) Bromoform                  | 9.94  | 173  | 99910    | 48.114  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.40 | 146  | 251289   | 48.291  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.49 | 146  | 257188   | 47.812  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146  | 255624   | 48.435  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 47611    | 48.433  | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene     | 12.87 | 180  | 184374   | 46.871  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.49 | 180  | 161080   | 48.990  | ug/L  | 98       |
| 69) Naphthalene                | 13.73 | 128  | 510669   | 53.179  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.97 | 180  | 172179   | 50.160  | ug/L  | 99       |

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

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