

Data File : VU033719.D  
Acq On : 10 Aug 2019 10:16  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD05058

Quant Time: Aug 11 04:22:50 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Aug 10 04:26:55 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 324426   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 309946   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 171099   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 122399   | 51.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 102.50% |
| 7) Chloroethane-d5             | 1.67    | 69    | 116748   | 48.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 97.54%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 205467   | 51.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 102.34% |
| 21) 2-Butanone-d5              | 4.16    | 46    | 165710   | 111.93   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 111.93% |
| 24) Chloroform-d               | 4.62    | 84    | 188448   | 53.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 106.22% |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 116466   | 52.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 105.00% |
| 32) Benzene-d6                 | 5.32    | 84    | 378027   | 51.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.36% |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 119128   | 53.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 106.14% |
| 41) Toluene-d8                 | 7.55    | 98    | 353074   | 51.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.64% |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 58066    | 51.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 102.44% |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 127182   | 109.38   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 109.38% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 176241   | 53.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 106.14% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 142070   | 49.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.68%  |

#### Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 113890 | 48.122 ug/L  | 99     |
| 3) Chloromethane               | 1.32 | 50  | 120281 | 49.068 ug/L  | 99     |
| 5) Vinyl chloride              | 1.40 | 62  | 129693 | 47.489 ug/L  | 98     |
| 6) Bromomethane                | 1.62 | 94  | 79354  | 35.814 ug/L  | 99     |
| 8) Chloroethane                | 1.69 | 64  | 97952  | 47.113 ug/L  | 96     |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 177570 | 47.950 ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 94660  | 48.740 ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 88719  | 46.505 ug/L  | 94     |
| 13) Acetone                    | 2.32 | 43  | 173211 | 116.358 ug/L | 98     |
| 14) Carbon disulfide           | 2.46 | 76  | 253484 | 47.332 ug/L  | 100    |
| 15) Methyl Acetate             | 2.60 | 43  | 118946 | 47.957 ug/L  | 98     |
| 16) Methylene chloride         | 2.68 | 84  | 103341 | 46.685 ug/L  | 99     |
| 17) trans-1,2-Dichloroethene   | 2.96 | 96  | 94274  | 46.108 ug/L  | 98     |
| 18) Methyl tert-butyl Ether    | 2.98 | 73  | 300628 | 44.954 ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 179560 | 46.536 ug/L  | 99     |
| 20) cis-1,2-Dichloroethene     | 4.20 | 96  | 105870 | 45.395 ug/L  | 100    |
| 22) 2-Butanone                 | 4.24 | 43  | 199144 | 107.485 ug/L | 98     |

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Quant Title : VOC Analysis  
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Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane         | 4.52  | 128  | 55324    | 46.104  | ug/L  | 96       |
| 25) Chloroform                 | 4.65  | 83   | 185829   | 46.169  | ug/L  | 100      |
| 27) 1,2-Dichloroethane         | 5.38  | 62   | 146928   | 47.930  | ug/L  | 99       |
| 29) Cyclohexane                | 4.97  | 56   | 153871   | 47.045  | ug/L  | 97       |
| 30) 1,1,1-Trichloroethane      | 4.89  | 97   | 157242   | 46.751  | ug/L  | 99       |
| 31) Carbon tetrachloride       | 5.11  | 117  | 138482   | 45.891  | ug/L  | 99       |
| 33) Benzene                    | 5.37  | 78   | 404049   | 46.843  | ug/L  | 100      |
| 34) Trichloroethene            | 6.16  | 95   | 102830   | 45.182  | ug/L  | 97       |
| 35) Methylcyclohexane          | 6.40  | 83   | 166518   | 48.066  | ug/L  | 98       |
| 37) 1,2-Dichloropropane        | 6.41  | 63   | 110144   | 47.848  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.74  | 83   | 139138   | 47.040  | ug/L  | 96       |
| 39) cis-1,3-Dichloropropene    | 7.25  | 75   | 173881   | 47.532  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.44  | 43   | 333615   | 97.448  | ug/L  | 97       |
| 42) Toluene                    | 7.62  | 91   | 441692   | 47.334  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 153330   | 47.049  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 102189   | 45.410  | ug/L  | 97       |
| 46) Tetrachloroethene          | 8.21  | 164  | 86968    | 46.356  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.34  | 43   | 277124   | 102.803 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.46  | 129  | 116950   | 46.381  | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 113795   | 45.736  | ug/L  | 99       |
| 51) Chlorobenzene              | 9.10  | 112  | 284168   | 46.328  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.23  | 91   | 469645   | 46.008  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.36  | 106  | 178725   | 45.868  | ug/L  | 95       |
| 54) o-xylene                   | 9.76  | 106  | 177117   | 45.989  | ug/L  | 99       |
| 55) Styrene                    | 9.77  | 104  | 310767   | 48.086  | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.15 | 105  | 464449   | 45.954  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 185971   | 47.043  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.48 | 75   | 146642   | 47.121  | ug/L  | 98       |
| 61) Bromoform                  | 9.94  | 173  | 89641    | 43.644  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.40 | 146  | 231775   | 44.498  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene        | 11.49 | 146  | 234757   | 44.497  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146  | 234551   | 45.551  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 44741    | 45.991  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 12.87 | 180  | 184177   | 44.434  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.49 | 180  | 164153   | 43.775  | ug/L  | 99       |
| 69) Naphthalene                | 13.73 | 128  | 498715   | 44.401  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.97 | 180  | 170074   | 43.871  | ug/L  | 97       |

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

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