

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV102418\  
 Data File : VV008388.D  
 Acq On : 24 Oct 2018 12:46  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0 mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05074

Quant Time: Oct 25 08:48:28 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102318WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 24 02:41:57 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 198676   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 183780   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 85474    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 50386    | 45.81    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 91.62% |
| 7) Chloroethane-d5             | 1.57    | 69    | 38475    | 48.44    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 96.88% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 94347    | 47.49    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 94.98% |
| 21) 2-Butanone-d5              | 3.93    | 46    | 113931   | 95.30    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 95.30% |
| 24) Chloroform-d               | 4.41    | 84    | 127419   | 46.96    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.92% |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 83846    | 46.22    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.44% |
| 32) Benzene-d6                 | 5.10    | 84    | 248637   | 47.48    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.96% |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 84473    | 46.47    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 92.94% |
| 41) Toluene-d8                 | 7.36    | 98    | 228320   | 48.01    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.02% |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 42424    | 48.04    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.08% |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 90520    | 95.36    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 95.36% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 118702   | 48.21    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.42% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 83575    | 47.80    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.60% |

## Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 69019  | 48.650 ug/L | 99     |
| 3) Chloromethane               | 1.25 | 50  | 74348  | 48.922 ug/L | 97     |
| 5) Vinyl chloride              | 1.33 | 62  | 68187  | 48.423 ug/L | 97     |
| 6) Bromomethane                | 1.52 | 94  | 19364  | 50.117 ug/L | 98     |
| 8) Chloroethane                | 1.59 | 64  | 38698  | 52.310 ug/L | 94     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 88805  | 49.002 ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 48398  | 51.118 ug/L | 98     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 43063  | 48.308 ug/L | 88     |
| 13) Acetone                    | 2.19 | 43  | 92366  | 99.551 ug/L | 100    |
| 14) Carbon disulfide           | 2.32 | 76  | 197044 | 49.078 ug/L | 99     |
| 15) Methyl Acetate             | 2.46 | 43  | 85485  | 46.202 ug/L | 100    |
| 16) Methylene chloride         | 2.54 | 84  | 73604  | 47.674 ug/L | 99     |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 65002  | 47.837 ug/L | 98     |
| 18) Methyl tert-butyl Ether    | 2.81 | 73  | 235615 | 48.445 ug/L | 100    |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 133015 | 47.463 ug/L | 98     |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 76415  | 49.361 ug/L | 93     |
| 22) 2-Butanone                 | 4.02 | 43  | 133764 | 99.792 ug/L | 98     |

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 Misc : 5.0 mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05074

Quant Time: Oct 25 08:48:28 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102318WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 24 02:41:57 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.30  | 128  | 35060    | 48.021 | ug/L  | 99       |
| 25) Chloroform                 | 4.43  | 83   | 131178   | 47.948 | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.18  | 62   | 109117   | 47.751 | ug/L  | 96       |
| 29) Cyclohexane                | 4.73  | 56   | 130218   | 48.665 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane      | 4.66  | 97   | 114049   | 47.854 | ug/L  | 100      |
| 31) Carbon tetrachloride       | 4.88  | 117  | 98389    | 48.647 | ug/L  | 99       |
| 33) Benzene                    | 5.15  | 78   | 289216   | 48.143 | ug/L  | 100      |
| 34) Trichloroethene            | 5.96  | 95   | 73859    | 48.022 | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.18  | 83   | 130975   | 50.089 | ug/L  | 100      |
| 37) 1,2-Dichloropropane        | 6.23  | 63   | 79766    | 48.077 | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.56  | 83   | 102140   | 48.312 | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene    | 7.07  | 75   | 128163   | 49.135 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.27  | 43   | 229593   | 93.449 | ug/L  | 99       |
| 42) Toluene                    | 7.43  | 91   | 307885   | 49.340 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 121711   | 49.876 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 70962    | 48.374 | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.02  | 164  | 51376    | 51.240 | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.19  | 43   | 180866   | 95.404 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.29  | 129  | 77243    | 48.999 | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 74519    | 48.424 | ug/L  | 99       |
| 51) Chlorobenzene              | 8.93  | 112  | 191679   | 49.887 | ug/L  | 100      |
| 52) Ethylbenzene               | 9.06  | 91   | 350839   | 50.192 | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.18  | 106  | 127542   | 49.944 | ug/L  | 100      |
| 54) o-xylene                   | 9.59  | 106  | 127011   | 49.808 | ug/L  | 99       |
| 55) Styrene                    | 9.61  | 104  | 215611   | 50.181 | ug/L  | 100      |
| 56) Isopropylbenzene           | 9.98  | 105  | 338665   | 50.759 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 123411   | 48.035 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 100781   | 48.470 | ug/L  | 99       |
| 61) Bromoform                  | 9.78  | 173  | 53244    | 49.368 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 140740   | 49.803 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 141602   | 49.995 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 141997   | 49.274 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 27848    | 47.006 | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene     | 12.70 | 180  | 94926    | 51.443 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 75000    | 50.238 | ug/L  | 99       |
| 69) Naphthalene                | 13.56 | 128  | 224533   | 46.510 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 73632    | 49.351 | ug/L  | 99       |

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

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Sample    : VSTDCCC050
Misc      : 5.0 mL/MSVOA_V/WATER
ALS Vial  : 2    Sample Multiplier: 1
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