

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV061220\  
 Data File : VV016872.D  
 Acq On : 12 Jun 2020 11:59  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05086

Quant Time: Jun 13 01:38:17 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060820WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jun 12 05:55:11 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 328006   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 315447   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 169567   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 103348   | 44.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 89.30%  |
| 7) Chloroethane-d5             | 1.56    | 69    | 71092    | 51.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 102.38% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 185466   | 47.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.44%  |
| 21) 2-Butanone-d5              | 3.89    | 46    | 168646   | 98.45    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 98.45%  |
| 24) Chloroform-d               | 4.37    | 84    | 228801   | 48.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.24%  |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 160216   | 50.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.10% |
| 32) Benzene-d6                 | 5.07    | 84    | 422801   | 46.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 131347   | 46.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 92.68%  |
| 41) Toluene-d8                 | 7.33    | 98    | 397387   | 47.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.24%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 65127    | 44.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 88.24%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 113589   | 91.92    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 91.92%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 181773   | 48.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.88%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 174656   | 48.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.52%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc    | Units | Ovalue |
|--------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.13 | 85   | 127283   | 48.946  | ug/L  | 99     |
| 3) Chloromethane               | 1.25 | 50   | 118154   | 49.684  | ug/L  | 96     |
| 5) Vinyl chloride              | 1.32 | 62   | 106349   | 45.475  | ug/L  | 99     |
| 6) Bromomethane                | 1.51 | 94   | 43992    | 45.166  | ug/L  | 96     |
| 8) Chloroethane                | 1.58 | 64   | 59244    | 51.285  | ug/L  | 98     |
| 9) Trichlorofluoromethane      | 1.75 | 101  | 172747   | 49.361  | ug/L  | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12 | 101  | 81617    | 46.801  | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.13 | 96   | 77420    | 47.556  | ug/L  | 96     |
| 13) Acetone                    | 2.17 | 43   | 98861    | 87.590  | ug/L  | 98     |
| 14) Carbon disulfide           | 2.30 | 76   | 259373   | 44.004  | ug/L  | 99     |
| 15) Methyl Acetate             | 2.44 | 43   | 129199   | 51.358  | ug/L  | 100    |
| 16) Methylene chloride         | 2.52 | 84   | 120014   | 50.238  | ug/L  | 99     |
| 17) trans-1,2-Dichloroethene   | 2.77 | 96   | 107087   | 48.244  | ug/L  | 97     |
| 18) Methyl tert-butyl Ether    | 2.78 | 73   | 384169   | 52.233  | ug/L  | 99     |
| 19) 1,1-Dichloroethane         | 3.20 | 63   | 204751   | 49.005  | ug/L  | 98     |
| 20) cis-1,2-Dichloroethene     | 3.93 | 96   | 120025   | 49.599  | ug/L  | 98     |
| 22) 2-Butanone                 | 3.97 | 43   | 175153   | 100.633 | ug/L  | 99     |

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Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05086

Quant Time: Jun 13 01:38:17 2020  
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 Quant Title : VOC Analysis  
 QLast Update : Fri Jun 12 05:55:11 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.27  | 128  | 65346    | 51.262  | ug/L  | 98       |
| 25) Chloroform                  | 4.40  | 83   | 220755   | 51.411  | ug/L  | 97       |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 189630   | 52.682  | ug/L  | 97       |
| 29) Cyclohexane                 | 4.70  | 56   | 171452   | 43.739  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane       | 4.63  | 97   | 198747   | 49.404  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.85  | 117  | 172502   | 49.567  | ug/L  | 99       |
| 33) Benzene                     | 5.12  | 78   | 441580   | 47.313  | ug/L  | 100      |
| 34) Trichloroethene             | 5.93  | 95   | 121063   | 48.365  | ug/L  | 97       |
| 35) Methylcyclohexane           | 6.15  | 83   | 170935   | 43.530  | ug/L  | 100      |
| 37) 1,2-Dichloropropane         | 6.19  | 63   | 116975   | 48.194  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.53  | 83   | 162821   | 50.393  | ug/L  | 96       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 171612   | 45.518  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone        | 7.24  | 43   | 365647   | 106.313 | ug/L  | 99       |
| 42) Toluene                     | 7.41  | 91   | 482132   | 49.003  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 173334   | 47.289  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 120319   | 51.382  | ug/L  | 96       |
| 46) Tetrachloroethene           | 7.99  | 164  | 92390    | 46.931  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.16  | 43   | 284744   | 106.776 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.27  | 129  | 131183   | 52.395  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 125648   | 51.239  | ug/L  | 97       |
| 51) Chlorobenzene               | 8.90  | 112  | 315583   | 49.163  | ug/L  | 100      |
| 52) Ethylbenzene                | 9.03  | 91   | 536773   | 49.255  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.16  | 106  | 201133   | 49.569  | ug/L  | 98       |
| 54) o-xylene                    | 9.56  | 106  | 204417   | 51.081  | ug/L  | 98       |
| 55) Styrene                     | 9.58  | 104  | 351226   | 51.911  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 544369   | 50.625  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 180942   | 50.397  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.30 | 75   | 158482   | 52.626  | ug/L  | 99       |
| 61) Bromoform                   | 9.75  | 173  | 88685    | 50.847  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 267954   | 49.891  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.30 | 146  | 268469   | 49.129  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 277025   | 51.470  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 42530    | 50.254  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 195819   | 48.895  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.29 | 180  | 179803   | 48.947  | ug/L  | 99       |
| 69) Naphthalene                 | 13.53 | 128  | 563724   | 53.349  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 182631   | 50.811  | ug/L  | 98       |

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

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