

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100920\  
 Data File : VV018779.D  
 Acq On : 08 Oct 2020 22:39  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05080

Quant Time: Oct 09 07:27:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM100820WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 08 23:51:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 310771   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 304907   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 168107   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 144285   | 51.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 102.20% |
| 7) Chloroethane-d5             | 1.58    | 69    | 115125   | 50.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 101.30% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 271803   | 49.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 99.86%  |
| 21) 2-Butanone-d5              | 3.90    | 46    | 198335   | 114.39   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 114.39% |
| 24) Chloroform-d               | 4.38    | 84    | 247101   | 49.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 170234   | 50.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.82% |
| 32) Benzene-d6                 | 5.07    | 84    | 478074   | 48.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.44%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 151843   | 47.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 94.92%  |
| 41) Toluene-d8                 | 7.34    | 98    | 439783   | 50.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.98% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 79060    | 50.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 101.10% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 125162   | 111.61   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 111.61% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 190447   | 51.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 103.48% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 180614   | 48.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.10%  |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 98515  | 49.110  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 128321 | 48.758  | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 132313 | 48.220  | ug/L 99  |
| 6) Bromomethane                | 1.53 | 94  | 78295  | 48.418  | ug/L 99  |
| 8) Chloroethane                | 1.59 | 64  | 88207  | 49.098  | ug/L 98  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 194371 | 48.450  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 107347 | 48.056  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 102037 | 47.440  | ug/L 98  |
| 13) Acetone                    | 2.18 | 43  | 134450 | 93.040  | ug/L 99  |
| 14) Carbon disulfide           | 2.31 | 76  | 311881 | 48.986  | ug/L 99  |
| 15) Methyl Acetate             | 2.44 | 43  | 148607 | 52.641  | ug/L 99  |
| 16) Methylene chloride         | 2.52 | 84  | 128077 | 48.372  | ug/L 99  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 115468 | 50.860  | ug/L 98  |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 403285 | 52.974  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 238304 | 53.485  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 117665 | 49.040  | ug/L 97  |
| 22) 2-Butanone                 | 3.98 | 43  | 182254 | 107.635 | ug/L 97  |

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| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.27  | 128  | 60502    | 48.637  | ug/L  | 98       |
| 25) Chloroform                  | 4.40  | 83   | 216733   | 47.397  | ug/L  | 100      |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 180398   | 48.491  | ug/L  | 99       |
| 29) Cyclohexane                 | 4.70  | 56   | 178629   | 48.376  | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane       | 4.63  | 97   | 189399   | 46.607  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.86  | 117  | 163895   | 47.851  | ug/L  | 99       |
| 33) Benzene                     | 5.13  | 78   | 453620   | 46.894  | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 125419   | 45.049  | ug/L  | 99       |
| 35) Methylcyclohexane           | 6.15  | 83   | 155686   | 45.701  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 123880   | 46.621  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.53  | 83   | 161586   | 47.883  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 193671   | 51.593  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.24  | 43   | 361647   | 104.730 | ug/L  | 100      |
| 42) Toluene                     | 7.41  | 91   | 489817   | 49.298  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 192225   | 49.972  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 114849   | 48.124  | ug/L  | 97       |
| 46) Tetrachloroethene           | 8.00  | 164  | 94640    | 46.383  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.16  | 43   | 293517   | 107.675 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.27  | 129  | 128640   | 49.316  | ug/L  | 100      |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 129518   | 53.063  | ug/L  | 99       |
| 51) Chlorobenzene               | 8.90  | 112  | 319600   | 48.464  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.03  | 91   | 551725   | 48.898  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.16  | 106  | 204591   | 49.398  | ug/L  | 98       |
| 54) o-xylene                    | 9.56  | 106  | 199374   | 50.684  | ug/L  | 99       |
| 55) Styrene                     | 9.58  | 104  | 351762   | 50.523  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.95  | 105  | 532621   | 48.935  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 168949   | 50.751  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.29 | 75   | 154577   | 48.890  | ug/L  | 99       |
| 61) Bromoform                   | 9.75  | 173  | 91617    | 49.119  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 277628   | 50.656  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.29 | 146  | 276853   | 48.561  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 257006   | 46.709  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 38460    | 50.673  | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 167908   | 47.299  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.28 | 180  | 163052   | 48.846  | ug/L  | 99       |
| 69) Naphthalene                 | 13.52 | 128  | 509177   | 54.137  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 165395   | 49.913  | ug/L  | 99       |

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

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