

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV021220\  
 Data File : VV014566.D  
 Acq On : 12 Feb 2020 11:30  
 Operator : SY/MD  
 Sample : VSTD05062  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05062

Quant Time: Feb 13 04:52:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM021220WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Feb 13 04:49:41 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 333888   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 312311   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 156504   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 62326  | 35.92 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.58  | 69  | 43304  | 39.68 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 102515 | 42.97 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 3.92  | 46  | 109338 | 90.60 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 183661 | 47.74 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 114037 | 48.65 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.10  | 84  | 368815 | 46.04 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.11  | 67  | 110824 | 44.12 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.36  | 98  | 354350 | 47.67 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.66  | 79  | 61144  | 47.07 | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.13  | 63  | 87087  | 88.91 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.25 | 84  | 148155 | 45.45 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 133339 | 47.24 | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |        | Qvalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 112646 | 41.953 | ug/L 100 |
| 3) Chloromethane               | 1.26 | 50  | 95359  | 35.290 | ug/L 100 |
| 5) Vinyl chloride              | 1.33 | 62  | 71043  | 32.889 | ug/L 100 |
| 6) Bromomethane                | 1.53 | 94  | 35514  | 46.177 | ug/L 100 |
| 8) Chloroethane                | 1.60 | 64  | 35238  | 36.629 | ug/L 100 |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 122661 | 46.429 | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 52782  | 43.393 | ug/L 100 |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 48514  | 40.001 | ug/L 100 |
| 13) Acetone                    | 2.19 | 43  | 84470  | 80.531 | ug/L 100 |
| 14) Carbon disulfide           | 2.32 | 76  | 237165 | 39.961 | ug/L 100 |
| 15) Methyl Acetate             | 2.46 | 43  | 85803  | 43.378 | ug/L 100 |
| 16) Methylene chloride         | 2.54 | 84  | 101151 | 42.767 | ug/L 100 |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 96846  | 45.144 | ug/L 100 |
| 18) Methyl tert-butyl Ether    | 2.80 | 73  | 310886 | 46.837 | ug/L 100 |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 169825 | 43.802 | ug/L 100 |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 112524 | 46.676 | ug/L 100 |
| 22) 2-Butanone                 | 4.01 | 43  | 135417 | 91.077 | ug/L 100 |
| 23) Bromochloromethane         | 4.30 | 128 | 53830  | 47.478 | ug/L 100 |
| 25) Chloroform                 | 4.42 | 83  | 190266 | 47.628 | ug/L 100 |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 140458 | 49.332 | ug/L 100 |
| 29) Cyclohexane                | 4.73 | 56  | 150065 | 41.332 | ug/L 100 |
| 30) 1,1,1-Trichloroethane      | 4.66 | 97  | 165645 | 49.958 | ug/L 100 |
| 31) Carbon tetrachloride       | 4.87 | 117 | 146728 | 50.365 | ug/L 100 |
| 33) Benzene                    | 5.14 | 78  | 399380 | 44.747 | ug/L 100 |
| 34) Trichloroethene            | 5.96 | 95  | 106338 | 46.637 | ug/L 100 |
| 35) Methylcyclohexane          | 6.17 | 83  | 165594 | 44.296 | ug/L 100 |
| 37) 1,2-Dichloropropane        | 6.22 | 63  | 99042  | 44.478 | ug/L 100 |
| 38) Bromodichloromethane       | 6.55 | 83  | 140791 | 46.699 | ug/L 100 |
| 39) cis-1,3-Dichloropropene    | 7.07 | 75  | 175183 | 47.494 | ug/L 100 |
| 40) 4-Methyl-2-pentanone       | 7.26 | 43  | 243368 | 90.604 | ug/L 100 |

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 ALS Vial : 5 Sample Multiplier: 1

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 MSVOA\_V  
 ClientSampleId :  
 VSTD05062

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM021220WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Feb 13 04:49:41 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 7.43  | 91   | 435398   | 46.334 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 156646   | 47.444 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 100823   | 47.352 | ug/L  | 100      |
| 46) Tetrachloroethene          | 8.02  | 164  | 83886    | 49.452 | ug/L  | 100      |
| 48) 2-Hexanone                 | 8.18  | 43   | 185562   | 89.345 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.29  | 129  | 120308   | 50.521 | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.39  | 107  | 108893   | 47.651 | ug/L  | 100      |
| 51) Chlorobenzene              | 8.92  | 112  | 288610   | 47.538 | ug/L  | 100      |
| 52) Ethylbenzene               | 9.05  | 91   | 492543   | 46.549 | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.18  | 106  | 189239   | 47.808 | ug/L  | 100      |
| 54) o-xylene                   | 9.58  | 106  | 182829   | 46.718 | ug/L  | 100      |
| 55) Styrene                    | 9.60  | 104  | 317784   | 48.238 | ug/L  | 100      |
| 56) Isopropylbenzene           | 9.97  | 105  | 484871   | 48.111 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 159676   | 46.757 | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.31 | 75   | 125424   | 46.936 | ug/L  | 100      |
| 61) Bromoform                  | 9.77  | 173  | 81797    | 50.342 | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 228339   | 48.099 | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.31 | 146  | 234938   | 47.994 | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 11.68 | 146  | 221589   | 47.402 | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 35973    | 48.080 | ug/L  | 100      |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 160708   | 49.835 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.30 | 180  | 151976   | 51.591 | ug/L  | 100      |
| 69) Naphthalene                | 13.54 | 128  | 485333   | 52.069 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 146587   | 51.589 | ug/L  | 100      |

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

