

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV112018\  
 Data File : VV008669.D  
 Acq On : 20 Nov 2018 12:33  
 Operator : SY/MD  
 Sample : VSTD10072  
 Misc : 5.0 mL/MSVOA\_V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD10072

Quant Time: Nov 21 01:06:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM112018WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 21 01:02:22 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 265477   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 246931   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 125714   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |        |      |      |
|--------------------------------|-------|-----|--------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 192135 | 109.31 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.55  | 69  | 91121  | 81.37  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 311221 | 101.88 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 3.93  | 46  | 330631 | 219.07 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.41  | 84  | 391902 | 101.61 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 248100 | 99.90  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.10  | 84  | 802087 | 100.60 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.12  | 67  | 249354 | 97.31  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.36  | 98  | 731883 | 101.86 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.67  | 79  | 118790 | 98.31  | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.14  | 63  | 246313 | 224.35 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27 | 84  | 348543 | 105.84 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.68 | 152 | 274918 | 96.57  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |        |        |      | Qvalue |
|--------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 207239 | 99.40  | ug/L | 100    |
| 3) Chloromethane               | 1.25 | 50  | 202303 | 109.87 | ug/L | 98     |
| 5) Vinyl chloride              | 1.32 | 62  | 202075 | 110.10 | ug/L | 98     |
| 6) Bromomethane                | 1.51 | 94  | 57688  | 97.32  | ug/L | 100    |
| 8) Chloroethane                | 1.57 | 64  | 101334 | 102.49 | ug/L | 95     |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 257395 | 103.13 | ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 146184 | 102.01 | ug/L | 99     |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 132844 | 104.76 | ug/L | 93     |
| 13) Acetone                    | 2.19 | 43  | 296917 | 242.08 | ug/L | 100    |
| 14) Carbon disulfide           | 2.31 | 76  | 522365 | 101.35 | ug/L | 99     |
| 15) Methyl Acetate             | 2.46 | 43  | 243063 | 108.09 | ug/L | 100    |
| 16) Methylene chloride         | 2.53 | 84  | 201044 | 98.31  | ug/L | 99     |
| 17) trans-1,2-Dichloroethene   | 2.79 | 96  | 184953 | 101.41 | ug/L | 98     |
| 18) Methyl tert-butyl Ether    | 2.81 | 73  | 630239 | 101.74 | ug/L | 99     |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 354662 | 102.05 | ug/L | 99     |
| 20) cis-1,2-Dichloroethene     | 3.96 | 96  | 213731 | 103.92 | ug/L | 94     |
| 22) 2-Butanone                 | 4.02 | 43  | 388131 | 229.57 | ug/L | 99     |
| 23) Bromochloromethane         | 4.30 | 128 | 101358 | 103.24 | ug/L | 97     |
| 25) Chloroform                 | 4.43 | 83  | 364032 | 94.03  | ug/L | 98     |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 292375 | 103.78 | ug/L | 100    |
| 29) Cyclohexane                | 4.73 | 56  | 336291 | 95.72  | ug/L | 99     |
| 30) 1,1,1-Trichloroethane      | 4.66 | 97  | 309676 | 99.16  | ug/L | 100    |
| 31) Carbon tetrachloride       | 4.88 | 117 | 258107 | 95.93  | ug/L | 99     |
| 33) Benzene                    | 5.15 | 78  | 802516 | 101.69 | ug/L | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 206526 | 99.15  | ug/L | 95     |
| 35) Methylcyclohexane          | 6.18 | 83  | 347166 | 98.20  | ug/L | 99     |
| 37) 1,2-Dichloropropane        | 6.23 | 63  | 214809 | 100.33 | ug/L | 99     |
| 38) Bromodichloromethane       | 6.56 | 83  | 262197 | 98.24  | ug/L | 98     |
| 39) cis-1,3-Dichloropropene    | 7.07 | 75  | 327312 | 100.81 | ug/L | 98     |
| 40) 4-Methyl-2-pentanone       | 7.28 | 43  | 629400 | 217.05 | ug/L | 99     |

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 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 21 01:02:22 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 7.43  | 91   | 843924   | 102.60 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 302050   | 102.30 | ug/L  | 96       |
| 45) 1,1,2-Trichloroethane      | 7.89  | 97   | 196788   | 102.49 | ug/L  | 98       |
| 46) Tetrachloroethene          | 8.02  | 164  | 151818   | 101.81 | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.19  | 43   | 515849   | 229.80 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.29  | 129  | 204992   | 102.10 | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.40  | 107  | 211141   | 105.85 | ug/L  | 98       |
| 51) Chlorobenzene              | 8.93  | 112  | 531003   | 102.87 | ug/L  | 99       |
| 52) Ethylbenzene               | 9.06  | 91   | 931343   | 102.83 | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.18  | 106  | 345504   | 104.09 | ug/L  | 100      |
| 54) o-xylene                   | 9.59  | 106  | 340778   | 103.56 | ug/L  | 97       |
| 55) Styrene                    | 9.61  | 104  | 588300   | 108.56 | ug/L  | 99       |
| 56) Isopropylbenzene           | 9.98  | 105  | 902183   | 104.15 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.29 | 83   | 341194   | 108.66 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.32 | 75   | 277093   | 107.05 | ug/L  | 98       |
| 61) Bromoform                  | 9.78  | 173  | 140557   | 94.55  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.23 | 146  | 412289   | 98.90  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.32 | 146  | 419705   | 100.29 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.69 | 146  | 427431   | 100.27 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 72818    | 98.06  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 299544   | 104.53 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.31 | 180  | 250946   | 111.85 | ug/L  | 99       |
| 69) Naphthalene                | 13.55 | 128  | 778898   | 119.90 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.80 | 180  | 256078   | 113.10 | ug/L  | 100      |

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

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