

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR040419\  
 Data File : VR026452.D  
 Acq On : 4 Apr 2019 18:05  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :

Quant Time: Apr 05 07:57:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR040319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Apr 05 07:16:54 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 503084   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.28 | 117  | 426956   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 178303   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.15   | 65    | 181519   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 95.00%  |
| 7) Chloroethane-d5             | 2.62   | 69    | 154967   | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.20%  |
| 11) 1,1-Dichloroethene-d2      | 3.61   | 63    | 484610   | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 98.00%  |
| 20) 2-Butanone-d5              | 6.58   | 46    | 173738   | 50.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 101.96% |
| 24) Chloroform-d               | 7.20   | 84    | 344660   | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.80%  |
| 26) 1,2-Dichloroethane-d4      | 7.89   | 65    | 147246   | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.40%  |
| 32) Benzene-d6                 | 7.85   | 84    | 637288   | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.40%  |
| 36) 1,2-Dichloropropane-d6     | 8.89   | 67    | 166984   | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.60%  |
| 41) Toluene-d8                 | 9.97   | 98    | 605682   | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.20%  |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 41687    | 4.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 89.00%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 148614   | 59.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 118.24% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 70190    | 5.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.80% |
| 64) 1,2-Dichlorobenzene-d4     | 13.51  | 152   | 119959   | 4.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 88.80%  |

## Target Compounds

|                                |      |     |         |        | Ovalue   |
|--------------------------------|------|-----|---------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.82 | 85  | 232757  | 4.514  | ug/L 98  |
| 3) Chloromethane               | 2.01 | 50  | 265329  | 4.879  | ug/L 100 |
| 5) Vinyl chloride              | 2.16 | 62  | 261633  | 4.896  | ug/L 100 |
| 6) Bromomethane                | 2.52 | 94  | 155571  | 4.979  | ug/L 95  |
| 8) Chloroethane                | 2.65 | 64  | 152343  | 5.028  | ug/L 98  |
| 9) Trichlorofluoromethane      | 2.93 | 101 | 392559m | 5.306  | ug/L     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.67 | 101 | 194700  | 4.770  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 3.63 | 96  | 222374  | 4.984  | ug/L 95  |
| 13) Acetone                    | 3.70 | 43  | 174066  | 50.543 | ug/L 95  |
| 14) Carbon disulfide           | 3.93 | 76  | 633321  | 4.890  | ug/L 100 |
| 15) Methyl Acetate             | 4.19 | 43  | 45336   | 4.879  | ug/L 98  |
| 16) Methylene chloride         | 4.40 | 84  | 182170  | 4.593  | ug/L 90  |
| 17) Methyl tert-butyl Ether    | 4.88 | 73  | 233494  | 4.601  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 4.88 | 96  | 199197  | 4.732  | ug/L 92  |
| 19) 1,1-Dichloroethane         | 5.69 | 63  | 369457  | 4.723  | ug/L 99  |
| 21) 2-Butanone                 | 6.69 | 43  | 240389  | 54.289 | ug/L 98  |
| 22) cis-1,2-Dichloroethene     | 6.67 | 96  | 176313  | 5.036  | ug/L 99  |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 7.05  | 128  | 51157    | 4.689  | ug/L   | 98       |
| 25) Chloroform                  | 7.23  | 83   | 359244   | 4.800  | ug/L   | 98       |
| 27) 1,2-Dichloroethane          | 7.99  | 62   | 183034   | 4.904  | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane       | 7.43  | 97   | 315869   | 4.482  | ug/L   | 98       |
| 30) Cyclohexane                 | 7.51  | 56   | 327296   | 4.999  | ug/L   | 99       |
| 31) Carbon tetrachloride        | 7.63  | 117  | 309022   | 4.629  | ug/L   | 100      |
| 33) Benzene                     | 7.90  | 78   | 808453   | 4.845  | ug/L   | 100      |
| 34) Trichloroethene             | 8.71  | 95   | 201944   | 4.518  | ug/L   | 95       |
| 35) Methylcyclohexane           | 8.95  | 83   | 306789   | 4.813  | ug/L   | 99       |
| 37) 1,2-Dichloropropane         | 8.99  | 63   | 167281   | 4.575  | ug/L   | 99       |
| 38) Bromodichloromethane        | 9.28  | 83   | 204845   | 4.848  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene     | 9.72  | 75   | 203403   | 5.125  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 9.86  | 43   | 614841   | 57.384 | ug/L   | 97       |
| 42) Toluene                     | 10.03 | 91   | 863430   | 5.049  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 10.26 | 75   | 141876   | 4.900  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane       | 10.44 | 97   | 73266    | 4.953  | ug/L   | 94       |
| 47) Tetrachloroethene           | 10.51 | 164  | 144166   | 4.533  | ug/L   | 95       |
| 48) 2-Hexanone                  | 10.63 | 43   | 419993   | 58.932 | ug/L   | 98       |
| 49) Dibromochloromethane        | 10.78 | 129  | 94849    | 4.895  | ug/L   | 93       |
| 50) 1,2-Dibromoethane           | 10.88 | 107  | 63587    | 4.998  | ug/L # | 95       |
| 51) Chlorobenzene               | 11.32 | 112  | 460776   | 4.802  | ug/L   | 97       |
| 52) Ethylbenzene                | 11.39 | 91   | 1010202  | 5.128  | ug/L   | 97       |
| 53) m,p-Xylene                  | 11.50 | 106  | 358019   | 5.071  | ug/L   | 97       |
| 54) o-Xylene                    | 11.83 | 106  | 328992   | 5.303  | ug/L   | 95       |
| 55) Styrene                     | 11.84 | 104  | 516262   | 5.272  | ug/L   | 97       |
| 56) Isopropylbenzene            | 12.13 | 105  | 950538   | 5.399  | ug/L   | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.38 | 83   | 72658    | 5.059  | ug/L   | 89       |
| 59) 1,2,3-Trichloropropane      | 12.43 | 75   | 56655    | 5.142  | ug/L   | 96       |
| 61) Bromoform                   | 12.01 | 173  | 36113    | 4.539  | ug/L   | 97       |
| 62) 1,3-Dichlorobenzene         | 13.16 | 146  | 266142   | 4.657  | ug/L   | 96       |
| 63) 1,4-Dichlorobenzene         | 13.24 | 146  | 298490   | 4.652  | ug/L   | 94       |
| 65) 1,2-Dichlorobenzene         | 13.53 | 146  | 222688   | 4.697  | ug/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.14 | 75   | 7922     | 4.348  | ug/L # | 84       |
| 67) 1,3,5-Trichlorobenzene      | 14.29 | 180  | 173201   | 4.638  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene      | 14.78 | 180  | 92208    | 4.444  | ug/L   | 94       |
| 69) Naphthalene                 | 15.00 | 128  | 91839    | 4.706  | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.18 | 180  | 71148    | 4.947  | ug/L   | 95       |

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

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