

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101518\  
 Data File : VR026078.D  
 Acq On : 15 Oct 2018 17:53  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00588

Manual Integrations  
 APPROVED

MMDadoda  
 10/16/2018 3:12:56 PM

Quant Time: Oct 16 08:22:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR101518WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Oct 15 17:34:12 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 679228   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 579226   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.23 | 152  | 219150   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.15   | 65    | 267725   | 4.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 90.00%  |
| 7) Chloroethane-d5             | 2.63   | 69    | 223883   | 4.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 87.60%  |
| 11) 1,1-Dichloroethene-d2      | 3.63   | 63    | 651612   | 4.46     | ug/L | 0.01    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 89.20%  |
| 20) 2-Butanone-d5              | 6.59   | 46    | 239609   | 49.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 98.20%  |
| 24) Chloroform-d               | 7.20   | 84    | 431035   | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.20%  |
| 26) 1,2-Dichloroethane-d4      | 7.90   | 65    | 184033   | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.60%  |
| 32) Benzene-d6                 | 7.85   | 84    | 852484   | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.60%  |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 221186   | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 92.00%  |
| 41) Toluene-d8                 | 9.97   | 98    | 831218   | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.60%  |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 59916    | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 95.20%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 196074   | 53.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 107.74% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 91216    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 13.52  | 152   | 161754   | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 93.40%  |

## Target Compounds

|                                |      |     |         |              | Ovalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.83 | 85  | 200077  | 4.385 ug/L   | 96     |
| 3) Chloromethane               | 2.01 | 50  | 341488  | 4.713 ug/L   | 96     |
| 5) Vinyl chloride              | 2.16 | 62  | 327010  | 4.531 ug/L   | 97     |
| 6) Bromomethane                | 2.53 | 94  | 209722  | 4.400 ug/L   | 96     |
| 8) Chloroethane                | 2.66 | 64  | 207839  | 4.647 ug/L   | 97     |
| 9) Trichlorofluoromethane      | 2.93 | 101 | 503004m | 4.827 ug/L   |        |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.68 | 101 | 291280  | 4.689 ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 3.63 | 96  | 310719  | 4.704 ug/L   | 92     |
| 13) Acetone                    | 3.69 | 43  | 246102  | 48.780 ug/L  | 96     |
| 14) Carbon disulfide           | 3.94 | 76  | 831828  | 4.817 ug/L   | 99     |
| 15) Methyl Acetate             | 4.19 | 43  | 64063   | 4.861 ug/L   | 99     |
| 16) Methylene chloride         | 4.40 | 84  | 273738  | 4.570 ug/L   | 95     |
| 17) Methyl tert-butyl Ether    | 4.90 | 73  | 296093  | 4.938 ug/L   | 97     |
| 18) trans-1,2-Dichloroethene   | 4.88 | 96  | 238506  | 4.775 ug/L   | 99     |
| 19) 1,1-Dichloroethane         | 5.69 | 63  | 449514  | 4.793 ug/L   | 99     |
| 21) 2-Butanone                 | 6.69 | 43  | 292026  | 50.175 ug/L  | 97     |
| 22) cis-1,2-Dichloroethene     | 6.68 | 96  | 234303  | 4.959 ug/L # | 99     |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 7.04  | 128  | 63802    | 4.814  | uq/L   | 86       |
| 25) Chloroform                  | 7.23  | 83   | 437805   | 4.783  | uq/L   | 97       |
| 27) 1,2-Dichloroethane          | 7.99  | 62   | 215452   | 4.809  | uq/L   | 99       |
| 29) 1,1,1-Trichloroethane       | 7.43  | 97   | 383370   | 4.844  | uq/L   | 99       |
| 30) Cyclohexane                 | 7.51  | 56   | 409053   | 5.149  | uq/L   | 98       |
| 31) Carbon tetrachloride        | 7.64  | 117  | 348729   | 4.846  | uq/L   | 98       |
| 33) Benzene                     | 7.91  | 78   | 1052541  | 4.843  | uq/L   | 100      |
| 34) Trichloroethene             | 8.71  | 95   | 270647   | 4.865  | uq/L   | 96       |
| 35) Methylcyclohexane           | 8.95  | 83   | 420116   | 5.073  | uq/L   | 98       |
| 37) 1,2-Dichloropropane         | 9.00  | 63   | 222088   | 4.843  | uq/L   | 99       |
| 38) Bromodichloromethane        | 9.28  | 83   | 248139   | 5.032  | uq/L   | 96       |
| 39) cis-1,3-Dichloropropene     | 9.72  | 75   | 268020   | 5.107  | uq/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 9.87  | 43   | 738521   | 52.738 | uq/L   | 99       |
| 42) Toluene                     | 10.04 | 91   | 1139067  | 4.966  | uq/L   | 100      |
| 44) trans-1,3-Dichloropropene   | 10.26 | 75   | 188294   | 5.135  | uq/L   | 97       |
| 45) 1,1,2-Trichloroethane       | 10.45 | 97   | 94770    | 4.900  | uq/L   | 93       |
| 47) Tetrachloroethene           | 10.51 | 164  | 181934   | 4.580  | uq/L   | 96       |
| 48) 2-Hexanone                  | 10.63 | 43   | 487962   | 53.351 | uq/L   | 99       |
| 49) Dibromochloromethane        | 10.79 | 129  | 113944   | 5.235  | uq/L   | 99       |
| 50) 1,2-Dibromoethane           | 10.89 | 107  | 84507    | 5.057  | uq/L   | 91       |
| 51) Chlorobenzene               | 11.32 | 112  | 620717   | 4.888  | uq/L   | 98       |
| 52) Ethylbenzene                | 11.39 | 91   | 1331855  | 5.049  | uq/L   | 100      |
| 53) m,p-Xylene                  | 11.50 | 106  | 485947   | 5.056  | uq/L   | 99       |
| 54) o-Xylene                    | 11.83 | 106  | 447721   | 5.081  | uq/L   | 98       |
| 55) Styrene                     | 11.84 | 104  | 704048   | 5.191  | uq/L   | 98       |
| 56) Isopropylbenzene            | 12.13 | 105  | 1274785  | 5.209  | uq/L   | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.39 | 83   | 92734    | 4.717  | uq/L   | 94       |
| 59) 1,2,3-Trichloropropane      | 12.43 | 75   | 70194    | 4.864  | uq/L   | 100      |
| 61) Bromoform                   | 12.01 | 173  | 36742    | 4.823  | uq/L   | 97       |
| 62) 1,3-Dichlorobenzene         | 13.16 | 146  | 355925   | 4.889  | uq/L   | 97       |
| 63) 1,4-Dichlorobenzene         | 13.24 | 146  | 362471   | 4.807  | uq/L   | 94       |
| 65) 1,2-Dichlorobenzene         | 13.53 | 146  | 284592   | 4.871  | uq/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.15 | 75   | 10190    | 4.280  | uq/L # | 93       |
| 67) 1,3,5-Trichlorobenzene      | 14.29 | 180  | 210182   | 4.738  | uq/L   | 98       |
| 68) 1,2,4-trichlorobenzene      | 14.79 | 180  | 126121   | 4.871  | uq/L   | 99       |
| 69) Naphthalene                 | 15.00 | 128  | 126510   | 5.032  | uq/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.18 | 180  | 87653    | 4.874  | uq/L   | 98       |

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

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