

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR082918\  
 Data File : VR025655.D  
 Acq On : 29 Aug 2018 13:13  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00587

Manual Integrations  
 APPROVED

MMDadoda  
 8/30/2018 10:58:43 AM

Quant Time: Aug 30 06:41:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR082118WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Aug 29 06:51:48 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 503798   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 432724   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 175318   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.17   | 65    | 160089   | 4.88     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 97.60%   |
| 7) Chloroethane-d5             | 2.62   | 69    | 135016   | 4.77     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 95.40%   |
| 11) 1,1-Dichloroethene-d2      | 3.63   | 63    | 390611   | 4.82     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 96.40%   |
| 20) 2-Butanone-d5              | 6.60   | 46    | 161393   | 64.59    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 129.18%  |
| 24) Chloroform-d               | 7.21   | 84    | 302030   | 5.25     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 105.00%  |
| 26) 1,2-Dichloroethane-d4      | 7.89   | 65    | 105173   | 5.25     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.00%  |
| 32) Benzene-d6                 | 7.86   | 84    | 747069   | 5.28     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 105.60%  |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 202069   | 5.60     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 112.00%  |
| 41) Toluene-d8                 | 9.97   | 98    | 718408   | 5.61     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 112.20%  |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 45683    | 5.37     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 107.40%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 181027   | 65.01    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 130.02%# |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 86966    | 5.22     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 104.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 13.51  | 152   | 149089   | 5.32     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 106.40%  |

## Target Compounds

|                                |      |     |         |              | Ovalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.83 | 85  | 140479  | 5.034 ug/L   | 95     |
| 3) Chloromethane               | 2.01 | 50  | 185631  | 4.495 ug/L   | 98     |
| 5) Vinyl chloride              | 2.17 | 62  | 184871  | 4.572 ug/L   | 95     |
| 6) Bromomethane                | 2.52 | 94  | 128672  | 4.677 ug/L   | 96     |
| 8) Chloroethane                | 2.66 | 64  | 111202  | 4.471 ug/L   | 96     |
| 9) Trichlorofluoromethane      | 2.99 | 101 | 335647m | 5.720 ug/L   |        |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.68 | 101 | 189797  | 5.308 ug/L   | 93     |
| 12) 1,1-Dichloroethene         | 3.65 | 96  | 181733  | 4.593 ug/L   | 82     |
| 13) Acetone                    | 3.70 | 43  | 91962   | 59.073 ug/L  | 99     |
| 14) Carbon disulfide           | 3.97 | 76  | 417193  | 4.051 ug/L   | 98     |
| 15) Methyl Acetate             | 4.19 | 43  | 28481   | 4.839 ug/L # | 82     |
| 16) Methylene chloride         | 4.40 | 84  | 152471  | 4.294 ug/L   | 85     |
| 17) Methyl tert-butyl Ether    | 4.90 | 73  | 205475  | 5.065 ug/L   | 98     |
| 18) trans-1,2-Dichloroethene   | 4.88 | 96  | 200829  | 4.806 ug/L   | 97     |
| 19) 1,1-Dichloroethane         | 5.69 | 63  | 306851  | 4.751 ug/L   | 98     |
| 21) 2-Butanone                 | 6.69 | 43  | 188082  | 61.309 ug/L  | 99     |
| 22) cis-1,2-Dichloroethene     | 6.68 | 96  | 192514  | 5.361 ug/L # | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR082918\  
 Data File : VR025655.D  
 Acq On : 29 Aug 2018 13:13  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00587

Manual Integrations  
 APPROVED

MMDadoda  
 8/30/2018 10:58:43 AM

Quant Time: Aug 30 06:41:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR082118WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Aug 29 06:51:48 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 23) Bromochloromethane         | 7.05  | 128  | 58963    | 5.357  | uq/L   | 86       |
| 25) Chloroform                 | 7.23  | 83   | 283825   | 5.059  | uq/L   | 100      |
| 27) 1,2-Dichloroethane         | 8.00  | 62   | 112256   | 5.350  | uq/L   | 96       |
| 29) 1,1,1-Trichloroethane      | 7.43  | 97   | 205116   | 4.872  | uq/L   | 99       |
| 30) Cyclohexane                | 7.52  | 56   | 294933   | 5.445  | uq/L   | 99       |
| 31) Carbon tetrachloride       | 7.64  | 117  | 206020   | 5.576  | uq/L   | 100      |
| 33) Benzene                    | 7.91  | 78   | 819916   | 5.188  | uq/L   | 100      |
| 34) Trichloroethene            | 8.71  | 95   | 180838   | 4.996  | uq/L   | 97       |
| 35) Methylcyclohexane          | 8.96  | 83   | 348895   | 5.925  | uq/L   | 100      |
| 37) 1,2-Dichloropropane        | 8.99  | 63   | 180227   | 5.195  | uq/L # | 97       |
| 38) Bromodichloromethane       | 9.28  | 83   | 161883   | 5.347  | uq/L   | 94       |
| 39) cis-1,3-Dichloropropene    | 9.72  | 75   | 201168   | 5.658  | uq/L   | 95       |
| 40) 4-Methyl-2-pentanone       | 9.86  | 43   | 518274   | 61.676 | uq/L   | 100      |
| 42) Toluene                    | 10.03 | 91   | 865383   | 5.581  | uq/L   | 98       |
| 44) trans-1,3-Dichloropropene  | 10.27 | 75   | 138006   | 5.500  | uq/L   | 98       |
| 45) 1,1,2-Trichloroethane      | 10.44 | 97   | 83335    | 5.445  | uq/L   | 95       |
| 47) Tetrachloroethene          | 10.52 | 164  | 151859   | 5.486  | uq/L   | 94       |
| 48) 2-Hexanone                 | 10.64 | 43   | 356998   | 60.945 | uq/L   | 98       |
| 49) Dibromochloromethane       | 10.78 | 129  | 91290    | 5.535  | uq/L   | 98       |
| 50) 1,2-Dibromoethane          | 10.89 | 107  | 67786    | 5.590  | uq/L # | 87       |
| 51) Chlorobenzene              | 11.31 | 112  | 512099   | 5.305  | uq/L   | 98       |
| 52) Ethylbenzene               | 11.39 | 91   | 946650   | 5.718  | uq/L   | 97       |
| 53) m,p-Xylene                 | 11.50 | 106  | 380749   | 5.742  | uq/L   | 98       |
| 54) o-Xylene                   | 11.83 | 106  | 342927   | 5.805  | uq/L   | 100      |
| 55) Styrene                    | 11.85 | 104  | 557166   | 5.838  | uq/L   | 100      |
| 56) Isopropylbenzene           | 12.13 | 105  | 900522   | 6.013  | uq/L   | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.38 | 83   | 82636    | 5.224  | uq/L # | 94       |
| 59) 1,2,3-Trichloropropane     | 12.44 | 75   | 54928    | 5.107  | uq/L   | 94       |
| 61) Bromoform                  | 12.01 | 173  | 35455    | 5.033  | uq/L # | 95       |
| 62) 1,3-Dichlorobenzene        | 13.16 | 146  | 288625   | 5.326  | uq/L   | 97       |
| 63) 1,4-Dichlorobenzene        | 13.24 | 146  | 320677   | 5.326  | uq/L   | 99       |
| 65) 1,2-Dichlorobenzene        | 13.53 | 146  | 250314   | 5.364  | uq/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 14.15 | 75   | 6298     | 4.985  | uq/L # | 81       |
| 67) 1,3,5-Trichlorobenzene     | 14.29 | 180  | 183149   | 5.980  | uq/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 14.79 | 180  | 107651   | 5.664  | uq/L   | 100      |
| 69) Naphthalene                | 15.00 | 128  | 119932   | 5.110  | uq/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 15.18 | 180  | 88349    | 5.979  | uq/L   | 99       |
| -----                          |       |      |          |        |        |          |

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR082918\  
Data File : VR025655.D  
Acq On : 29 Aug 2018 13:13  
Operator : SY/MD  
Sample : VSTDCCC005  
Misc : 25mL/MSVOA R/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00587

Manual Integrations  
APPROVED

MMDadoda  
8/30/2018 10:58:43 AM

Quant Time: Aug 30 06:41:58 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR082118WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Aug 29 06:51:48 2018  
Response via : Initial Calibration

