

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR100818\  
 Data File : VR026008.D  
 Acq On : 9 Oct 2018 5:20  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00586

Manual Integrations  
 APPROVED

MMDadoda  
 10/9/2018 1:47:19 PM

Quant Time: Oct 09 07:29:19 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR092718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Oct 09 06:51:21 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 412726   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 362289   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 140578   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.15   | 65    | 232825   | 7.15     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 143.00%# |
| 7) Chloroethane-d5             | 2.63   | 69    | 193462   | 7.27     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 145.40%# |
| 11) 1,1-Dichloroethene-d2      | 3.61   | 63    | 520847   | 6.81     | ug/L | -0.02    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 136.20%# |
| 20) 2-Butanone-d5              | 6.59   | 46    | 208537   | 57.47    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 114.94%  |
| 24) Chloroform-d               | 7.20   | 84    | 330204   | 5.83     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 116.60%  |
| 26) 1,2-Dichloroethane-d4      | 7.89   | 65    | 148987   | 6.12     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 122.40%  |
| 32) Benzene-d6                 | 7.85   | 84    | 677449   | 5.62     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 112.40%  |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 180197   | 5.55     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 111.00%  |
| 41) Toluene-d8                 | 9.97   | 98    | 661008   | 5.84     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 116.80%  |
| 43) trans-1,3-Dichloropropene- | 10.23  | 79    | 40738    | 5.53     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 110.60%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 171792   | 61.08    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 122.16%  |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 76664    | 5.81     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 116.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 13.52  | 152   | 125643   | 5.58     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 111.60%  |

## Target Compounds

|                                |      |     |         |        | Ovalue |
|--------------------------------|------|-----|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.83 | 85  | 122940m | 4.900  | ug/L   |
| 3) Chloromethane               | 2.01 | 50  | 194605  | 5.455  | ug/L   |
| 5) Vinyl chloride              | 2.17 | 62  | 190172  | 5.356  | ug/L   |
| 6) Bromomethane                | 2.52 | 94  | 124673  | 5.624  | ug/L   |
| 8) Chloroethane                | 2.66 | 64  | 123240  | 6.101  | ug/L   |
| 9) Trichlorofluoromethane      | 2.93 | 101 | 295203m | 5.988  | ug/L   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.68 | 101 | 175344  | 5.819  | ug/L   |
| 12) 1,1-Dichloroethene         | 3.63 | 96  | 186138  | 5.974  | ug/L # |
| 13) Acetone                    | 3.70 | 43  | 153728  | 58.455 | ug/L   |
| 14) Carbon disulfide           | 3.93 | 76  | 409517  | 5.430  | ug/L   |
| 15) Methyl Acetate             | 4.19 | 43  | 42049   | 5.767  | ug/L   |
| 16) Methylene chloride         | 4.40 | 84  | 172864  | 6.034  | ug/L   |
| 17) Methyl tert-butyl Ether    | 4.88 | 73  | 174667  | 5.063  | ug/L   |
| 18) trans-1,2-Dichloroethene   | 4.88 | 96  | 126914  | 4.925  | ug/L   |
| 19) 1,1-Dichloroethane         | 5.69 | 63  | 251925  | 4.938  | ug/L   |
| 21) 2-Butanone                 | 6.69 | 43  | 182998  | 50.591 | ug/L   |
| 22) cis-1,2-Dichloroethene     | 6.67 | 96  | 127505  | 4.918  | ug/L # |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 7.05  | 128  | 34829    | 4.952  | ug/L   | 89       |
| 25) Chloroform                  | 7.23  | 83   | 253242   | 5.098  | ug/L   | 98       |
| 27) 1,2-Dichloroethane          | 7.99  | 62   | 129928   | 5.241  | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane       | 7.43  | 97   | 203414   | 4.993  | ug/L   | 97       |
| 30) Cyclohexane                 | 7.51  | 56   | 216890   | 4.261  | ug/L   | 97       |
| 31) Carbon tetrachloride        | 7.63  | 117  | 183354   | 5.197  | ug/L   | 98       |
| 33) Benzene                     | 7.91  | 78   | 592813   | 4.878  | ug/L   | 100      |
| 34) Trichloroethene             | 8.71  | 95   | 146748   | 4.583  | ug/L   | 100      |
| 35) Methylcyclohexane           | 8.95  | 83   | 211965   | 4.403  | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 9.00  | 63   | 127969   | 4.909  | ug/L   | 98       |
| 38) Bromodichloromethane        | 9.28  | 83   | 141884   | 5.045  | ug/L   | 95       |
| 39) cis-1,3-Dichloropropene     | 9.72  | 75   | 140761   | 4.816  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 9.87  | 43   | 485176   | 52.929 | ug/L   | 97       |
| 42) Toluene                     | 10.04 | 91   | 646715   | 5.122  | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene   | 10.26 | 75   | 96756    | 5.070  | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane       | 10.45 | 97   | 55003    | 4.665  | ug/L   | 97       |
| 47) Tetrachloroethene           | 10.51 | 164  | 93375    | 4.733  | ug/L   | 97       |
| 48) 2-Hexanone                  | 10.63 | 43   | 317263   | 52.864 | ug/L   | 97       |
| 49) Dibromochloromethane        | 10.79 | 129  | 63184    | 5.280  | ug/L   | 99       |
| 50) 1,2-Dibromoethane           | 10.88 | 107  | 48277    | 5.189  | ug/L # | 90       |
| 51) Chlorobenzene               | 11.32 | 112  | 339703   | 5.072  | ug/L   | 94       |
| 52) Ethylbenzene                | 11.39 | 91   | 753858   | 5.231  | ug/L   | 97       |
| 53) m,p-Xylene                  | 11.50 | 106  | 267952   | 5.223  | ug/L   | 92       |
| 54) o-Xylene                    | 11.83 | 106  | 256581   | 5.372  | ug/L   | 99       |
| 55) Styrene                     | 11.84 | 104  | 405388   | 5.454  | ug/L   | 89       |
| 56) Isopropylbenzene            | 12.13 | 105  | 705172   | 5.353  | ug/L   | 97       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.39 | 83   | 58671    | 5.164  | ug/L # | 94       |
| 59) 1,2,3-Trichloropropane      | 12.43 | 75   | 42562    | 5.034  | ug/L   | 95       |
| 61) Bromoform                   | 12.01 | 173  | 22070    | 5.193  | ug/L # | 88       |
| 62) 1,3-Dichlorobenzene         | 13.16 | 146  | 194661   | 4.738  | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene         | 13.24 | 146  | 203476   | 4.841  | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene         | 13.53 | 146  | 163308   | 4.947  | ug/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.15 | 75   | 5382     | 3.877  | ug/L # | 73       |
| 67) 1,3,5-Trichlorobenzene      | 14.29 | 180  | 113827   | 4.651  | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene      | 14.78 | 180  | 71954    | 4.612  | ug/L   | 98       |
| 69) Naphthalene                 | 15.00 | 128  | 85374    | 4.288  | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene      | 15.18 | 180  | 51312    | 4.741  | ug/L   | 97       |

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

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