

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR092018\  
 Data File : VR025779.D  
 Acq On : 20 Sep 2018 16:57  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00517

Manual Integrations  
 APPROVED

MMDadoda  
 9/24/2018 5:09:20 PM

Quant Time: Sep 21 07:35:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR092018WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Sep 20 16:09:40 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 638939   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.28 | 117  | 498839   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 180591   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.16   | 65    | 113879   | 4.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 83.40%  |
| 7) Chloroethane-d5             | 2.63   | 69    | 101981   | 4.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 87.80%  |
| 11) 1,1-Dichloroethene-d2      | 3.63   | 63    | 323291   | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 85.80%  |
| 20) 2-Butanone-d5              | 6.58   | 46    | 268636   | 54.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 109.68% |
| 24) Chloroform-d               | 7.20   | 84    | 349941   | 4.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.80%  |
| 26) 1,2-Dichloroethane-d4      | 7.90   | 65    | 148784   | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.40%  |
| 32) Benzene-d6                 | 7.85   | 84    | 586846   | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.20%  |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 178094   | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.20%  |
| 41) Toluene-d8                 | 9.97   | 98    | 478006   | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.40%  |
| 43) trans-1,3-Dichloropropene- | 10.23  | 79    | 58882    | 4.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 86.20%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 206939   | 47.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 95.70%  |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 81719    | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 90.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 13.51  | 152   | 108285   | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 90.20%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.83 | 85   | 352173   | 4.848  | ug/L   | 98     |
| 3) Chloromethane               | 2.01 | 50   | 311722   | 4.360  | ug/L   | 98     |
| 5) Vinyl chloride              | 2.17 | 62   | 299066   | 4.389  | ug/L   | 93     |
| 6) Bromomethane                | 2.52 | 94   | 161758   | 4.489  | ug/L   | 98     |
| 8) Chloroethane                | 2.66 | 64   | 167356   | 4.459  | ug/L   | 99     |
| 9) Trichlorofluoromethane      | 2.94 | 101  | 380011m  | 4.824  | ug/L   |        |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.68 | 101  | 223159   | 4.680  | ug/L   | 98     |
| 12) 1,1-Dichloroethene         | 3.63 | 96   | 231286   | 4.486  | ug/L   | 97     |
| 13) Acetone                    | 3.70 | 43   | 177106   | 68.052 | ug/L   | 94     |
| 14) Carbon disulfide           | 3.93 | 76   | 747271   | 4.396  | ug/L   | 99     |
| 15) Methyl Acetate             | 4.19 | 43   | 57373    | 5.067  | ug/L   | 92     |
| 16) Methylene chloride         | 4.40 | 84   | 196208   | 4.485  | ug/L   | 99     |
| 17) Methyl tert-butyl Ether    | 4.89 | 73   | 452275   | 4.517  | ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 4.88 | 96   | 289062   | 4.539  | ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 5.69 | 63   | 587168   | 4.555  | ug/L   | 99     |
| 21) 2-Butanone                 | 6.69 | 43   | 379748   | 53.899 | ug/L   | 98     |
| 22) cis-1,2-Dichloroethene     | 6.67 | 96   | 286711   | 4.520  | ug/L # | 100    |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 7.05  | 128  | 77055    | 4.465  | ug/L  | 92       |
| 25) Chloroform                  | 7.23  | 83   | 536451   | 4.502  | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 7.99  | 62   | 281482   | 4.710  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane       | 7.43  | 97   | 517549   | 4.729  | ug/L  | 99       |
| 30) Cyclohexane                 | 7.52  | 56   | 595979   | 4.908  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 7.63  | 117  | 448972   | 4.745  | ug/L  | 99       |
| 33) Benzene                     | 7.91  | 78   | 1227004  | 4.875  | ug/L  | 100      |
| 34) Trichloroethene             | 8.71  | 95   | 332083   | 4.771  | ug/L  | 97       |
| 35) Methylcyclohexane           | 8.95  | 83   | 564743   | 4.943  | ug/L  | 98       |
| 37) 1,2-Dichloropropane         | 9.00  | 63   | 272625   | 4.970  | ug/L  | 99       |
| 38) Bromodichloromethane        | 9.28  | 83   | 321557   | 4.708  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene     | 9.72  | 75   | 376635   | 4.966  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone        | 9.87  | 43   | 939163   | 48.427 | ug/L  | 99       |
| 42) Toluene                     | 10.03 | 91   | 1250536  | 4.898  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 10.26 | 75   | 276137   | 4.951  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane       | 10.45 | 97   | 117288   | 4.924  | ug/L  | 97       |
| 47) Tetrachloroethene           | 10.51 | 164  | 196404   | 4.763  | ug/L  | 96       |
| 48) 2-Hexanone                  | 10.63 | 43   | 611306   | 47.356 | ug/L  | 98       |
| 49) Dibromochloromethane        | 10.79 | 129  | 142903   | 4.805  | ug/L  | 97       |
| 50) 1,2-Dibromoethane           | 10.89 | 107  | 101715   | 4.687  | ug/L  | 96       |
| 51) Chlorobenzene               | 11.32 | 112  | 653136   | 4.680  | ug/L  | 99       |
| 52) Ethylbenzene                | 11.39 | 91   | 1469914  | 4.921  | ug/L  | 99       |
| 53) m,p-Xylene                  | 11.50 | 106  | 526289   | 4.768  | ug/L  | 97       |
| 54) o-Xylene                    | 11.83 | 106  | 474874   | 4.663  | ug/L  | 96       |
| 55) Styrene                     | 11.84 | 104  | 736211   | 4.669  | ug/L  | 96       |
| 56) Isopropylbenzene            | 12.13 | 105  | 1373757  | 4.868  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.39 | 83   | 113232   | 4.560  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 12.43 | 75   | 90014    | 4.543  | ug/L  | 99       |
| 61) Bromoform                   | 12.01 | 173  | 53012    | 4.715  | ug/L  | 97       |
| 62) 1,3-Dichlorobenzene         | 13.16 | 146  | 396861   | 4.712  | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene         | 13.24 | 146  | 382719   | 4.826  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 13.53 | 146  | 298730   | 4.760  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.14 | 75   | 14828    | 4.070  | ug/L  | 90       |
| 67) 1,3,5-Trichlorobenzene      | 14.29 | 180  | 236390   | 4.933  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 14.78 | 180  | 150390   | 4.791  | ug/L  | 100      |
| 69) Naphthalene                 | 15.00 | 128  | 221028   | 4.705  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 15.18 | 180  | 103185   | 4.591  | ug/L  | 99       |

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

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