

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_R\DATA\VR112118\  
 Data File : VR026261.D  
 Acq On : 21 Nov 2018 15:07  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA\_R/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00597

Manual Integrations  
 APPROVED

MMDadoda  
 11/26/2018 9:21:25 AM

Quant Time: Nov 21 15:34:00 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR112118WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Nov 21 15:29:51 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 614495   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 527892   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.23 | 152  | 207634   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.16   | 65    | 242586   | 4.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 89.20%  |
| 7) Chloroethane-d5             | 2.63   | 69    | 202400   | 4.41     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 88.20%  |
| 11) 1,1-Dichloroethene-d2      | 3.61   | 63    | 579789   | 4.40     | ug/L | -0.01   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 88.00%  |
| 20) 2-Butanone-d5              | 6.59   | 46    | 200085   | 48.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 96.42%  |
| 24) Chloroform-d               | 7.20   | 84    | 411058   | 4.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 87.60%  |
| 26) 1,2-Dichloroethane-d4      | 7.90   | 65    | 155428   | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.80%  |
| 32) Benzene-d6                 | 7.86   | 84    | 826938   | 4.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.80%  |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 206821   | 4.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 89.20%  |
| 41) Toluene-d8                 | 9.97   | 98    | 792785   | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.00%  |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 53690    | 4.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 85.40%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 144106   | 50.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 101.08% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 83414    | 4.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 87.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 13.52  | 152   | 161439   | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 90.60%  |

## Target Compounds

|                                |      |     |         |       |      | Qvalue |
|--------------------------------|------|-----|---------|-------|------|--------|
| 2) Dichlorodifluoromethane     | 1.84 | 85  | 187772  | 4.44  | ug/L | 99     |
| 3) Chloromethane               | 2.02 | 50  | 262942  | 4.52  | ug/L | 99     |
| 5) Vinyl chloride              | 2.17 | 62  | 261471  | 4.54  | ug/L | 94     |
| 6) Bromomethane                | 2.52 | 94  | 166229  | 4.31  | ug/L | 99     |
| 8) Chloroethane                | 2.66 | 64  | 154445  | 4.28  | ug/L | 96     |
| 9) Trichlorofluoromethane      | 2.93 | 101 | 394240m | 4.33  | ug/L |        |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.68 | 101 | 223656  | 4.40  | ug/L | 96     |
| 12) 1,1-Dichloroethene         | 3.63 | 96  | 246280  | 4.48  | ug/L | 77     |
| 13) Acetone                    | 3.70 | 43  | 179143  | 47.16 | ug/L | 99     |
| 14) Carbon disulfide           | 3.94 | 76  | 610189  | 4.40  | ug/L | 97     |
| 15) Methyl Acetate             | 4.20 | 43  | 44985   | 4.38  | ug/L | 94     |
| 16) Methylene chloride         | 4.41 | 84  | 205992  | 4.11  | ug/L | 98     |
| 17) Methyl tert-butyl Ether    | 4.90 | 73  | 239495  | 4.40  | ug/L | 100    |
| 18) trans-1,2-Dichloroethene   | 4.89 | 96  | 206951  | 4.45  | ug/L | 100    |
| 19) 1,1-Dichloroethane         | 5.70 | 63  | 381248  | 4.50  | ug/L | 98     |
| 21) 2-Butanone                 | 6.69 | 43  | 230505  | 47.56 | ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 6.67 | 96  | 194764  | 4.69  | ug/L | 90     |

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 ALS Vial : 9 Sample Multiplier: 1

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane         | 7.05  | 128  | 55488    | 4.30  | ug/L   | 98       |
| 25) Chloroform                 | 7.23  | 83   | 383925   | 4.11  | ug/L   | 99       |
| 27) 1,2-Dichloroethane         | 7.99  | 62   | 171289   | 4.45  | ug/L   | 97       |
| 29) 1,1,1-Trichloroethane      | 7.43  | 97   | 326228   | 4.46  | ug/L   | 99       |
| 30) Cyclohexane                | 7.52  | 56   | 316078   | 5.04  | ug/L   | 99       |
| 31) Carbon tetrachloride       | 7.64  | 117  | 295828   | 4.52  | ug/L   | 100      |
| 33) Benzene                    | 7.91  | 78   | 867262   | 4.54  | ug/L   | 100      |
| 34) Trichloroethene            | 8.71  | 95   | 221947   | 4.47  | ug/L   | 95       |
| 35) Methylcyclohexane          | 8.95  | 83   | 320927   | 4.78  | ug/L   | 97       |
| 37) 1,2-Dichloropropane        | 9.00  | 63   | 177019   | 4.43  | ug/L   | 99       |
| 38) Bromodichloromethane       | 9.28  | 83   | 207112   | 4.39  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene    | 9.72  | 75   | 218253   | 4.86  | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone       | 9.87  | 43   | 566534   | 49.53 | ug/L   | 99       |
| 42) Toluene                    | 10.04 | 91   | 946846   | 4.56  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 10.26 | 75   | 143554   | 4.72  | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane      | 10.45 | 97   | 78901    | 4.44  | ug/L   | 93       |
| 47) Tetrachloroethene          | 10.51 | 164  | 158305   | 4.42  | ug/L   | 97       |
| 48) 2-Hexanone                 | 10.63 | 43   | 376719   | 49.21 | ug/L   | 98       |
| 49) Dibromochloromethane       | 10.79 | 129  | 95452    | 4.47  | ug/L   | 98       |
| 50) 1,2-Dibromoethane          | 10.89 | 107  | 68410    | 4.59  | ug/L # | 98       |
| 51) Chlorobenzene              | 11.32 | 112  | 507166   | 4.40  | ug/L   | 98       |
| 52) Ethylbenzene               | 11.39 | 91   | 1082237  | 4.72  | ug/L   | 100      |
| 53) m,p-Xylene                 | 11.50 | 106  | 402714   | 4.82  | ug/L   | 93       |
| 54) o-Xylene                   | 11.83 | 106  | 363929   | 4.81  | ug/L   | 99       |
| 55) Styrene                    | 11.84 | 104  | 566603   | 4.70  | ug/L   | 99       |
| 56) Isopropylbenzene           | 12.13 | 105  | 1032753  | 4.91  | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.39 | 83   | 75848    | 4.46  | ug/L # | 98       |
| 59) 1,2,3-Trichloropropane     | 12.43 | 75   | 55663    | 4.48  | ug/L   | 99       |
| 61) Bromoform                  | 12.01 | 173  | 36899    | 4.53  | ug/L   | 100      |
| 62) 1,3-Dichlorobenzene        | 13.16 | 146  | 300964   | 4.56  | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene        | 13.24 | 146  | 317007   | 4.36  | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene        | 13.53 | 146  | 251452   | 4.63  | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 14.15 | 75   | 8568     | 4.65  | ug/L   | 91       |
| 67) 1,3,5-Trichlorobenzene     | 14.29 | 180  | 186858   | 4.54  | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene     | 14.79 | 180  | 109932   | 4.81  | ug/L   | 99       |
| 69) Naphthalene                | 15.01 | 128  | 109975   | 4.92  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.18 | 180  | 79308    | 4.68  | ug/L   | 97       |

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

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