

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR040519\  
 Data File : VR026454.D  
 Acq On : 5 Apr 2019 9:55  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00597

Manual Integrations  
 APPROVED

MMDadoda  
 4/7/2019 12:56:51 PM

Quant Time: Apr 06 05:55:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR040319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Apr 05 07:16:54 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 518950   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 435800   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 164255   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.15   | 65    | 175041   | 4.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 88.80%  |
| 7) Chloroethane-d5             | 2.62   | 69    | 150313   | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 91.40%  |
| 11) 1,1-Dichloroethene-d2      | 3.60   | 63    | 506479   | 4.97     | ug/L | -0.01   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 99.40%  |
| 20) 2-Butanone-d5              | 6.58   | 46    | 164379   | 46.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 93.52%  |
| 24) Chloroform-d               | 7.20   | 84    | 356232   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.00%  |
| 26) 1,2-Dichloroethane-d4      | 7.89   | 65    | 146632   | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.20%  |
| 32) Benzene-d6                 | 7.85   | 84    | 656354   | 4.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.20%  |
| 36) 1,2-Dichloropropane-d6     | 8.89   | 67    | 170459   | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.60%  |
| 41) Toluene-d8                 | 9.96   | 98    | 622685   | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.80%  |
| 43) trans-1,3-Dichloropropene- | 10.23  | 79    | 37294    | 3.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 78.00%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 139929   | 54.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 109.08% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 66798    | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 95.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 13.51  | 152   | 109517   | 4.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 88.00%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.83 | 85   | 216517   | 4.071  | ug/L  | 99     |
| 3) Chloromethane               | 2.00 | 50   | 250593   | 4.467  | ug/L  | 95     |
| 5) Vinyl chloride              | 2.15 | 62   | 256376   | 4.651  | ug/L  | 96     |
| 6) Bromomethane                | 2.52 | 94   | 141800   | 4.399  | ug/L  | 97     |
| 8) Chloroethane                | 2.66 | 64   | 143664   | 4.597  | ug/L  | 99     |
| 9) Trichlorofluoromethane      | 2.93 | 101  | 386999m  | 5.071  | ug/L  |        |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.67 | 101  | 189718   | 4.506  | ug/L  | 97     |
| 12) 1,1-Dichloroethene         | 3.62 | 96   | 220614   | 4.794  | ug/L  | 87     |
| 13) Acetone                    | 3.69 | 43   | 153636   | 43.246 | ug/L  | 100    |
| 14) Carbon disulfide           | 3.92 | 76   | 650400   | 4.869  | ug/L  | 100    |
| 15) Methyl Acetate             | 4.18 | 43   | 40656    | 4.241  | ug/L  | 99     |
| 16) Methylene chloride         | 4.40 | 84   | 178945   | 4.373  | ug/L  | 92     |
| 17) Methyl tert-butyl Ether    | 4.88 | 73   | 206662   | 3.948  | ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 4.88 | 96   | 200695   | 4.622  | ug/L  | 90     |
| 19) 1,1-Dichloroethane         | 5.68 | 63   | 370546   | 4.592  | ug/L  | 97     |
| 21) 2-Butanone                 | 6.68 | 43   | 218091   | 47.747 | ug/L  | 99     |
| 22) cis-1,2-Dichloroethene     | 6.67 | 96   | 174711   | 4.837  | ug/L  | 88     |

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 QLast Update : Fri Apr 05 07:16:54 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| -----                           |       |      |          |        |        |          |
| 23) Bromochloromethane          | 7.05  | 128  | 49413    | 4.391  | uq/L   | 86       |
| 25) Chloroform                  | 7.22  | 83   | 356205   | 4.614  | uq/L   | 99       |
| 27) 1,2-Dichloroethane          | 7.99  | 62   | 178541   | 4.637  | uq/L   | 99       |
| 29) 1,1,1-Trichloroethane       | 7.43  | 97   | 320806   | 4.460  | uq/L   | 97       |
| 30) Cyclohexane                 | 7.51  | 56   | 326140   | 4.880  | uq/L   | 99       |
| 31) Carbon tetrachloride        | 7.63  | 117  | 311585   | 4.572  | uq/L   | 98       |
| 33) Benzene                     | 7.90  | 78   | 807293   | 4.740  | uq/L   | 100      |
| 34) Trichloroethene             | 8.71  | 95   | 208176   | 4.563  | uq/L   | 96       |
| 35) Methylcyclohexane           | 8.95  | 83   | 294851   | 4.532  | uq/L   | 98       |
| 37) 1,2-Dichloropropane         | 8.99  | 63   | 171083   | 4.584  | uq/L   | 98       |
| 38) Bromodichloromethane        | 9.28  | 83   | 197914   | 4.589  | uq/L   | 97       |
| 39) cis-1,3-Dichloropropene     | 9.72  | 75   | 175800   | 4.339  | uq/L   | 97       |
| 40) 4-Methyl-2-pentanone        | 9.86  | 43   | 557739   | 50.998 | uq/L   | 99       |
| 42) Toluene                     | 10.03 | 91   | 857179   | 4.911  | uq/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 10.26 | 75   | 122850   | 4.157  | uq/L   | 97       |
| 45) 1,1,2-Trichloroethane       | 10.45 | 97   | 68872    | 4.562  | uq/L   | 94       |
| 47) Tetrachloroethene           | 10.51 | 164  | 144402   | 4.448  | uq/L   | 89       |
| 48) 2-Hexanone                  | 10.63 | 43   | 376089   | 51.701 | uq/L   | 97       |
| 49) Dibromochloromethane        | 10.78 | 129  | 91465    | 4.625  | uq/L   | 91       |
| 50) 1,2-Dibromoethane           | 10.88 | 107  | 56154    | 4.324  | uq/L # | 98       |
| 51) Chlorobenzene               | 11.31 | 112  | 451780   | 4.613  | uq/L   | 98       |
| 52) Ethylbenzene                | 11.39 | 91   | 1000331  | 4.975  | uq/L   | 100      |
| 53) m,p-Xylene                  | 11.50 | 106  | 355656   | 4.935  | uq/L   | 98       |
| 54) o-Xylene                    | 11.83 | 106  | 317527   | 5.015  | uq/L   | 99       |
| 55) Styrene                     | 11.84 | 104  | 500396   | 5.006  | uq/L   | 94       |
| 56) Isopropylbenzene            | 12.13 | 105  | 887359   | 4.937  | uq/L   | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.38 | 83   | 63304    | 4.318  | uq/L   | 95       |
| 59) 1,2,3-Trichloropropane      | 12.43 | 75   | 50565    | 4.496  | uq/L   | 99       |
| 61) Bromoform                   | 12.01 | 173  | 32444    | 4.427  | uq/L   | 90       |
| 62) 1,3-Dichlorobenzene         | 13.16 | 146  | 242539   | 4.607  | uq/L   | 99       |
| 63) 1,4-Dichlorobenzene         | 13.24 | 146  | 262250   | 4.437  | uq/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 13.53 | 146  | 202509   | 4.637  | uq/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.14 | 75   | 6997     | 4.168  | uq/L # | 85       |
| 67) 1,3,5-Trichlorobenzene      | 14.29 | 180  | 146034   | 4.245  | uq/L   | 97       |
| 68) 1,2,4-trichlorobenzene      | 14.78 | 180  | 78398    | 4.101  | uq/L   | 98       |
| 69) Naphthalene                 | 15.00 | 128  | 73209    | 4.072  | uq/L   | 98       |
| 70) 1,2,3-Trichlorobenzene      | 15.18 | 180  | 59303    | 4.476  | uq/L   | 98       |
| -----                           |       |      |          |        |        |          |

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

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