

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR021919\  
 Data File : VR026342.D  
 Acq On : 19 Feb 2019 17:30  
 Operator : SY/MD  
 Sample : VSTDICV005  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VICV95

Manual Integrations  
 APPROVED

MMDadoda  
 2/21/2019 3:41:53 PM

Quant Time: Feb 20 04:44:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR021919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Feb 20 04:41:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 644890   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.28 | 117  | 523157   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 203486   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.16   | 65    | 229725   | 4.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 90.00%  |
| 7) Chloroethane-d5             | 2.63   | 69    | 193876   | 4.36     | ug/L | 0.00    |
| Spiked Amount                  | 7.000  | Range | 65 - 130 | Recovery | =    | 62.29%# |
| 11) 1,1-Dichloroethene-d2      | 3.63   | 63    | 570515   | 4.44     | ug/L | 0.02    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 88.80%  |
| 20) 2-Butanone-d5              | 6.58   | 46    | 197426   | 50.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 101.88% |
| 24) Chloroform-d               | 7.20   | 84    | 426633   | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.80%  |
| 26) 1,2-Dichloroethane-d4      | 7.89   | 65    | 160215   | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.80%  |
| 32) Benzene-d6                 | 7.85   | 84    | 851364   | 5.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.20% |
| 36) 1,2-Dichloropropane-d6     | 8.89   | 67    | 213977   | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.40% |
| 41) Toluene-d8                 | 9.97   | 98    | 798497   | 5.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.00% |
| 43) trans-1,3-Dichloropropene- | 10.23  | 79    | 56882    | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 99.60%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 162672   | 56.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 113.70% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 78601    | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 93.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 13.51  | 152   | 156003   | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.40%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.82 | 85   | 236788   | 4.954  | ug/L   | 95     |
| 3) Chloromethane               | 2.01 | 50   | 308461   | 4.893  | ug/L   | 96     |
| 5) Vinyl chloride              | 2.17 | 62   | 285433   | 4.704  | ug/L   | 96     |
| 6) Bromomethane                | 2.52 | 94   | 173020   | 4.246  | ug/L   | 97     |
| 8) Chloroethane                | 2.66 | 64   | 174316   | 4.582  | ug/L   | 99     |
| 9) Trichlorofluoromethane      | 2.93 | 101  | 452288m  | 4.645  | ug/L   |        |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.67 | 101  | 239373   | 4.645  | ug/L   | 98     |
| 12) 1,1-Dichloroethene         | 3.64 | 96   | 256073   | 4.615  | ug/L   | 89     |
| 13) Acetone                    | 3.69 | 43   | 189186   | 46.393 | ug/L   | 98     |
| 14) Carbon disulfide           | 3.94 | 76   | 754018   | 4.374  | ug/L # | 95     |
| 15) Methyl Acetate             | 4.18 | 43   | 51259    | 4.544  | ug/L   | 99     |
| 16) Methylene chloride         | 4.40 | 84   | 222501   | 4.278  | ug/L   | 88     |
| 17) Methyl tert-butyl Ether    | 4.88 | 73   | 268610   | 4.893  | ug/L   | 100    |
| 18) trans-1,2-Dichloroethene   | 4.88 | 96   | 248912   | 4.816  | ug/L   | 93     |
| 19) 1,1-Dichloroethane         | 5.69 | 63   | 439253   | 4.869  | ug/L   | 97     |
| 21) 2-Butanone                 | 6.68 | 43   | 247862   | 51.324 | ug/L   | 100    |
| 22) cis-1,2-Dichloroethene     | 6.67 | 96   | 229573   | 5.233  | ug/L   | 98     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 23) Bromochloromethane         | 7.05  | 128  | 65889    | 4.871  | uq/L   | 87       |
| 25) Chloroform                 | 7.23  | 83   | 425520   | 4.792  | uq/L   | 99       |
| 27) 1,2-Dichloroethane         | 7.99  | 62   | 187869   | 4.708  | uq/L # | 96       |
| 29) 1,1,1-Trichloroethane      | 7.43  | 97   | 382785   | 4.963  | uq/L   | 99       |
| 30) Cyclohexane                | 7.51  | 56   | 346746   | 5.789  | uq/L   | 99       |
| 31) Carbon tetrachloride       | 7.63  | 117  | 354603   | 5.023  | uq/L   | 98       |
| 33) Benzene                    | 7.90  | 78   | 983112   | 5.224  | uq/L   | 100      |
| 34) Trichloroethene            | 8.71  | 95   | 242577   | 5.071  | uq/L   | 97       |
| 35) Methylcyclohexane          | 8.95  | 83   | 360236   | 5.677  | uq/L   | 98       |
| 37) 1,2-Dichloropropane        | 8.99  | 63   | 203355   | 4.945  | uq/L   | 99       |
| 38) Bromodichloromethane       | 9.28  | 83   | 234102   | 5.064  | uq/L # | 96       |
| 39) cis-1,3-Dichloropropene    | 9.72  | 75   | 238276   | 5.491  | uq/L   | 97       |
| 40) 4-Methyl-2-pentanone       | 9.86  | 43   | 620290   | 57.794 | uq/L   | 99       |
| 42) Toluene                    | 10.03 | 91   | 1035494  | 5.403  | uq/L   | 100      |
| 44) trans-1,3-Dichloropropene  | 10.26 | 75   | 172385   | 5.370  | uq/L   | 99       |
| 45) 1,1,2-Trichloroethane      | 10.45 | 97   | 88409    | 5.039  | uq/L   | 97       |
| 47) Tetrachloroethene          | 10.51 | 164  | 185658   | 5.232  | uq/L   | 96       |
| 48) 2-Hexanone                 | 10.63 | 43   | 408246   | 55.357 | uq/L   | 99       |
| 49) Dibromochloromethane       | 10.78 | 129  | 116346   | 5.074  | uq/L   | 98       |
| 50) 1,2-Dibromoethane          | 10.88 | 107  | 73904    | 5.146  | uq/L # | 92       |
| 51) Chlorobenzene              | 11.31 | 112  | 559534   | 4.993  | uq/L   | 98       |
| 52) Ethylbenzene               | 11.39 | 91   | 1192766  | 5.594  | uq/L   | 98       |
| 53) m,p-Xylene                 | 11.50 | 106  | 431494   | 5.547  | uq/L   | 99       |
| 54) o-Xylene                   | 11.83 | 106  | 388766   | 5.708  | uq/L   | 94       |
| 55) Styrene                    | 11.84 | 104  | 599000   | 5.555  | uq/L   | 99       |
| 56) Isopropylbenzene           | 12.13 | 105  | 1128353  | 5.883  | uq/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.38 | 83   | 83374    | 5.009  | uq/L   | 93       |
| 59) 1,2,3-Trichloropropane     | 12.43 | 75   | 62707    | 5.263  | uq/L   | 95       |
| 61) Bromoform                  | 12.00 | 173  | 45299    | 4.872  | uq/L   | 97       |
| 62) 1,3-Dichlorobenzene        | 13.16 | 146  | 324962   | 5.333  | uq/L   | 97       |
| 63) 1,4-Dichlorobenzene        | 13.24 | 146  | 352627   | 4.983  | uq/L   | 98       |
| 65) 1,2-Dichlorobenzene        | 13.53 | 146  | 271352   | 5.149  | uq/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 14.14 | 75   | 9709     | 4.823  | uq/L   | 93       |
| 67) 1,3,5-Trichlorobenzene     | 14.29 | 180  | 216169   | 5.429  | uq/L   | 97       |
| 68) 1,2,4-trichlorobenzene     | 14.78 | 180  | 123568   | 5.714  | uq/L   | 97       |
| 69) Naphthalene                | 15.00 | 128  | 125117   | 6.090  | uq/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 15.18 | 180  | 95375    | 5.777  | uq/L   | 98       |
| -----                          |       |      |          |        |        |          |

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

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