

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR091119\  
 Data File : VR026621.D  
 Acq On : 11 Sep 2019 17:03  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00568

Quant Time: Sep 12 09:18:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR091019WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Sep 12 08:46:28 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.48  | 114  | 455687   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.30 | 117  | 347123   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.24 | 152  | 161948   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.18   | 65    | 61739    | 4.39     | ug/L | 0.01   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 87.80% |
| 7) Chloroethane-d5             | 2.65   | 69    | 53934    | 4.52     | ug/L | 0.02   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 90.40% |
| 11) 1,1-Dichloroethene-d2      | 3.63   | 63    | 154125   | 4.63     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 92.60% |
| 20) 2-Butanone-d5              | 6.62   | 46    | 114937   | 37.53    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 75.06% |
| 24) Chloroform-d               | 7.22   | 84    | 207182   | 4.26     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 85.20% |
| 26) 1,2-Dichloroethane-d4      | 7.91   | 65    | 65911    | 4.16     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 83.20% |
| 32) Benzene-d6                 | 7.88   | 84    | 410722   | 4.18     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 83.60% |
| 36) 1,2-Dichloropropane-d6     | 8.92   | 67    | 105187   | 3.97     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 79.40% |
| 41) Toluene-d8                 | 9.99   | 98    | 332933   | 4.46     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.20% |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 22694    | 3.62     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 72.40% |
| 46) 2-Hexanone-d5              | 10.60  | 63    | 73648    | 38.87    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 77.74% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.38  | 84    | 48807    | 3.93     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 78.60% |
| 64) 1,2-Dichlorobenzene-d4     | 13.53  | 152   | 92718    | 4.33     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 86.60% |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.86 | 85  | 267978 | 5.812  | ug/L 99   |
| 3) Chloromethane               | 2.06 | 50  | 132963 | 4.821  | ug/L 97   |
| 5) Vinyl chloride              | 2.18 | 62  | 130839 | 5.012  | ug/L 91   |
| 6) Bromomethane                | 2.54 | 94  | 79733  | 5.311  | ug/L 97   |
| 8) Chloroethane                | 2.68 | 64  | 75095  | 5.079  | ug/L 92   |
| 9) Trichlorofluoromethane      | 2.98 | 101 | 220729 | 5.614  | ug/L 99   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.69 | 101 | 104889 | 6.099  | ug/L 97   |
| 12) 1,1-Dichloroethene         | 3.65 | 96  | 92382  | 5.181  | ug/L 89   |
| 13) Acetone                    | 3.72 | 43  | 79795  | 42.409 | ug/L 99   |
| 14) Carbon disulfide           | 3.97 | 76  | 340897 | 4.784  | ug/L 96   |
| 15) Methyl Acetate             | 4.22 | 43  | 32228  | 3.853  | ug/L 98   |
| 16) Methylene chloride         | 4.43 | 84  | 164558 | 4.395  | ug/L 95   |
| 17) Methyl tert-butyl Ether    | 4.93 | 73  | 188777 | 4.203  | ug/L 100  |
| 18) trans-1,2-Dichloroethene   | 4.92 | 96  | 190015 | 4.940  | ug/L 94   |
| 19) 1,1-Dichloroethane         | 5.72 | 63  | 345469 | 4.719  | ug/L 97   |
| 21) 2-Butanone                 | 6.72 | 43  | 160765 | 41.368 | ug/L 99   |
| 22) cis-1,2-Dichloroethene     | 6.70 | 96  | 179849 | 4.751  | ug/L # 95 |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| -----                           |       |      |          |        |        |          |
| 23) Bromochloromethane          | 7.08  | 128  | 47296    | 4.649  | ug/L   | 84       |
| 25) Chloroform                  | 7.26  | 83   | 304791   | 4.522  | ug/L   | 97       |
| 27) 1,2-Dichloroethane          | 8.02  | 62   | 109712   | 4.449  | ug/L # | 94       |
| 29) 1,1,1-Trichloroethane       | 7.46  | 97   | 259034   | 4.940  | ug/L   | 98       |
| 30) Cyclohexane                 | 7.54  | 56   | 349990   | 5.599  | ug/L   | 98       |
| 31) Carbon tetrachloride        | 7.66  | 117  | 222197   | 5.103  | ug/L   | 100      |
| 33) Benzene                     | 7.93  | 78   | 723080   | 4.711  | ug/L   | 100      |
| 34) Trichloroethene             | 8.73  | 95   | 179952   | 4.748  | ug/L   | 96       |
| 35) Methylcyclohexane           | 8.97  | 83   | 332634   | 5.831  | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 9.02  | 63   | 142601   | 4.651  | ug/L   | 99       |
| 38) Bromodichloromethane        | 9.30  | 83   | 142270   | 4.495  | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene     | 9.74  | 75   | 158475   | 4.753  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone        | 9.88  | 43   | 384391   | 43.864 | ug/L   | 98       |
| 42) Toluene                     | 10.05 | 91   | 691800   | 5.038  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene   | 10.28 | 75   | 94329    | 4.554  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane       | 10.46 | 97   | 57275    | 4.471  | ug/L   | 97       |
| 47) Tetrachloroethene           | 10.53 | 164  | 112577   | 5.280  | ug/L   | 93       |
| 48) 2-Hexanone                  | 10.65 | 43   | 224710   | 43.130 | ug/L   | 99       |
| 49) Dibromochloromethane        | 10.80 | 129  | 60687    | 4.544  | ug/L   | 98       |
| 50) 1,2-Dibromoethane           | 10.91 | 107  | 47692    | 4.443  | ug/L   | 100      |
| 51) Chlorobenzene               | 11.33 | 112  | 363714   | 4.912  | ug/L   | 98       |
| 52) Ethylbenzene                | 11.41 | 91   | 809043   | 5.376  | ug/L   | 100      |
| 53) m,p-Xylene                  | 11.52 | 106  | 294816   | 5.349  | ug/L   | 91       |
| 54) o-Xylene                    | 11.84 | 106  | 280850   | 5.236  | ug/L   | 99       |
| 55) Styrene                     | 11.86 | 104  | 393857   | 5.325  | ug/L   | 96       |
| 56) Isopropylbenzene            | 12.15 | 105  | 853806   | 5.721  | ug/L   | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.40 | 83   | 63671    | 4.368  | ug/L   | 98       |
| 59) 1,2,3-Trichloropropane      | 12.45 | 75   | 48851    | 4.622  | ug/L   | 93       |
| 61) Bromoform                   | 12.02 | 173  | 25606    | 4.305  | ug/L   | 97       |
| 62) 1,3-Dichlorobenzene         | 13.18 | 146  | 266862   | 4.844  | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene         | 13.26 | 146  | 245250   | 4.623  | ug/L   | 95       |
| 65) 1,2-Dichlorobenzene         | 13.55 | 146  | 222036   | 4.829  | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.16 | 75   | 10415    | 4.450  | ug/L # | 80       |
| 67) 1,3,5-Trichlorobenzene      | 14.31 | 180  | 229366   | 5.153  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene      | 14.80 | 180  | 162574   | 4.993  | ug/L   | 97       |
| 69) Naphthalene                 | 15.02 | 128  | 207115   | 4.524  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.20 | 180  | 124840   | 4.567  | ug/L   | 97       |
| -----                           |       |      |          |        |        |          |

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

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