

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV030119\  
 Data File : VV009444.D  
 Acq On : 01 Mar 2019 09:45  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25ML/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 02 00:04:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR022819WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Mar 01 03:49:54 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 111988   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 106166   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 51201    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 24907    | 4.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 85.20%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 27467    | 5.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 104.00% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 68469    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 92.60%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 55113    | 49.69    | ug/L | -0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.38%  |
| 24) Chloroform-d               | 4.40   | 84    | 52589    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 26010    | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 92.00%  |
| 32) Benzene-d6                 | 5.10   | 84    | 106792   | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 31812    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 92.60%  |
| 41) Toluene-d8                 | 7.36   | 98    | 108544   | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.20%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 13714    | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 90.20%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 45995    | 46.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 93.34%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 25061    | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 93.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 39033    | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.80%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 32984  | 4.792  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 37447  | 5.141  | ug/L 96  |
| 5) Vinyl chloride              | 1.32 | 62  | 41075  | 5.143  | ug/L 91  |
| 6) Bromomethane                | 1.54 | 94  | 21444  | 3.913  | ug/L 96  |
| 8) Chloroethane                | 1.60 | 64  | 32511  | 6.117  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 79383  | 4.683  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 43119  | 5.224  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 37516  | 5.113  | ug/L 97  |
| 13) Acetone                    | 2.21 | 43  | 55411  | 52.583 | ug/L 98  |
| 14) Carbon disulfide           | 2.32 | 76  | 125412 | 5.207  | ug/L 99  |
| 15) Methyl Acetate             | 2.47 | 43  | 14079  | 5.117  | ug/L 97  |
| 16) Methylene chloride         | 2.54 | 84  | 39953  | 4.902  | ug/L 96  |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 96136  | 5.118  | ug/L 98  |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 43149  | 5.429  | ug/L 94  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 55226  | 5.130  | ug/L 99  |
| 21) 2-Butanone                 | 4.04 | 43  | 68503  | 51.325 | ug/L 98  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 37925  | 5.110  | ug/L 100 |

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 Misc : 25ML/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR022819WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Mar 01 03:49:54 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 15177    | 5.055  | ug/L  | 99       |
| 25) Chloroform                  | 4.43  | 83   | 65346    | 5.055  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 38478    | 5.104  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 61334    | 5.154  | ug/L  | 98       |
| 30) Cyclohexane                 | 4.72  | 56   | 59573    | 5.172  | ug/L  | 98       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 52736    | 5.369  | ug/L  | 100      |
| 33) Benzene                     | 5.14  | 78   | 143925   | 5.284  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 41533    | 5.330  | ug/L  | 97       |
| 35) Methylcyclohexane           | 6.17  | 83   | 66010    | 5.159  | ug/L  | 97       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 34395    | 5.095  | ug/L  | 98       |
| 38) Bromodichloromethane        | 6.55  | 83   | 49765    | 5.355  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 56088    | 5.265  | ug/L  | 96       |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 187811   | 51.901 | ug/L  | 97       |
| 42) Toluene                     | 7.43  | 91   | 166741   | 5.305  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 43787    | 5.272  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 25759    | 5.315  | ug/L  | 97       |
| 47) Tetrachloroethene           | 8.02  | 164  | 32531    | 5.317  | ug/L  | 96       |
| 48) 2-Hexanone                  | 8.19  | 43   | 125520   | 51.768 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 31201    | 4.960  | ug/L  | 96       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 23374    | 5.096  | ug/L  | 99       |
| 51) Chlorobenzene               | 8.92  | 112  | 107984   | 5.274  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.05  | 91   | 191944   | 5.359  | ug/L  | 99       |
| 53) m,p-xylene                  | 9.18  | 106  | 74368    | 5.295  | ug/L  | 96       |
| 54) o-xylene                    | 9.59  | 106  | 74282    | 5.439  | ug/L  | 98       |
| 55) Styrene                     | 9.60  | 104  | 116999   | 5.286  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.97  | 105  | 196783   | 5.424  | ug/L  | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 30100    | 5.181  | ug/L  | 96       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 21265    | 5.406  | ug/L  | 97       |
| 61) Bromoform                   | 9.77  | 173  | 16352    | 5.108  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 83110    | 5.154  | ug/L  | 94       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 83124    | 5.265  | ug/L  | 97       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 77894    | 5.336  | ug/L  | 95       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 4951     | 5.293  | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 61292    | 5.343  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 48216    | 5.520  | ug/L  | 99       |
| 69) Naphthalene                 | 13.55 | 128  | 76076    | 5.212  | ug/L  | 98       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 41867    | 5.254  | ug/L  | 99       |

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

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