

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100518\  
 Data File : VV008094.D  
 Acq On : 05 Oct 2018 13:10  
 Operator : SY/MD  
 Sample : VSTDICV005  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VICV74

Quant Time: Oct 06 00:57:11 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR100518WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Oct 06 00:55:07 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 105067   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 98733    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 51753    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 31524    | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 97.80%  |
| 7) Chloroethane-d5             | 1.59   | 69    | 25824    | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 95.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.14   | 63    | 61307    | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 97.20%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 80501    | 51.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.76% |
| 24) Chloroform-d               | 4.41   | 84    | 67278    | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 101.00% |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 32621    | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.00%  |
| 32) Benzene-d6                 | 5.10   | 84    | 130085   | 5.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.20% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 40002    | 5.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 100.00% |
| 41) Toluene-d8                 | 7.36   | 98    | 129485   | 5.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.60% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 14949    | 5.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 107.20% |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 60639    | 54.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 109.24% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 28943    | 5.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 103.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 50268    | 5.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 102.40% |

## Target Compounds

|                                |      |     |       |        | Ovalue   |
|--------------------------------|------|-----|-------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 35889 | 5.038  | ug/L 98  |
| 3) Chloromethane               | 1.25 | 50  | 29558 | 4.923  | ug/L 100 |
| 5) Vinyl chloride              | 1.33 | 62  | 33622 | 5.030  | ug/L 98  |
| 6) Bromomethane                | 1.54 | 94  | 16557 | 5.229  | ug/L 98  |
| 8) Chloroethane                | 1.60 | 64  | 20988 | 4.699  | ug/L 98  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 55934 | 4.885  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.15 | 101 | 32997 | 4.846  | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.15 | 96  | 28360 | 4.983  | ug/L 97  |
| 13) Acetone                    | 2.21 | 43  | 47162 | 44.861 | ug/L 99  |
| 14) Carbon disulfide           | 2.32 | 76  | 70049 | 4.836  | ug/L 97  |
| 15) Methyl Acetate             | 2.47 | 43  | 12006 | 4.810  | ug/L 98  |
| 16) Methylene chloride         | 2.54 | 84  | 30156 | 4.367  | ug/L 98  |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 70178 | 4.919  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 30273 | 4.873  | ug/L 96  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 58642 | 4.957  | ug/L 99  |
| 21) 2-Butanone                 | 4.05 | 43  | 81201 | 47.880 | ug/L 98  |
| 22) cis-1,2-Dichloroethene     | 3.97 | 96  | 35505 | 5.067  | ug/L 97  |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 15867    | 4.987  | ug/L  | 97       |
| 25) Chloroform                  | 4.43  | 83   | 63873    | 5.018  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.19  | 62   | 38270    | 5.117  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 54470    | 4.967  | ug/L  | 98       |
| 30) Cyclohexane                 | 4.73  | 56   | 47103    | 5.172  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.88  | 117  | 48868    | 4.960  | ug/L  | 97       |
| 33) Benzene                     | 5.15  | 78   | 131567   | 5.281  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 35933    | 4.943  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.18  | 83   | 51601    | 5.081  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.23  | 63   | 33966    | 5.053  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.56  | 83   | 42055    | 5.114  | ug/L  | 95       |
| 39) cis-1,3-Dichloropropene     | 7.08  | 75   | 45969    | 5.333  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 200196   | 52.550 | ug/L  | 99       |
| 42) Toluene                     | 7.43  | 91   | 143138   | 5.408  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.70  | 75   | 38271    | 5.460  | ug/L  | 94       |
| 45) 1,1,2-Trichloroethane       | 7.89  | 97   | 23963    | 5.082  | ug/L  | 96       |
| 47) Tetrachloroethene           | 8.02  | 164  | 33112    | 5.099  | ug/L  | 96       |
| 48) 2-Hexanone                  | 8.19  | 43   | 131755   | 50.943 | ug/L  | 95       |
| 49) Dibromochloromethane        | 8.29  | 129  | 29843    | 5.073  | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 22316    | 5.213  | ug/L  | 98       |
| 51) Chlorobenzene               | 8.93  | 112  | 97836    | 5.286  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.06  | 91   | 153887   | 5.327  | ug/L  | 100      |
| 53) m,p-xylene                  | 9.18  | 106  | 59184    | 5.404  | ug/L  | 99       |
| 54) o-xylene                    | 9.59  | 106  | 57197    | 5.471  | ug/L  | 99       |
| 55) Styrene                     | 9.61  | 104  | 98002    | 5.504  | ug/L  | 100      |
| 56) Isopropylbenzene            | 9.98  | 105  | 155557   | 5.409  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 28435    | 5.202  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 20745    | 5.286  | ug/L  | 95       |
| 61) Bromoform                   | 9.78  | 173  | 16579    | 5.202  | ug/L  | 96       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 80815    | 5.245  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 81517    | 5.190  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 78297    | 5.260  | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 3928     | 5.053  | ug/L  | 90       |
| 67) 1,3,5-Trichlorobenzene      | 12.70 | 180  | 69633    | 5.303  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.32 | 180  | 55654    | 5.682  | ug/L  | 100      |
| 69) Naphthalene                 | 13.56 | 128  | 70745    | 5.657  | ug/L  | 98       |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 51627    | 5.543  | ug/L  | 98       |

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

