

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081919\  
 Data File : VV012281.D  
 Acq On : 19 Aug 2019 16:43  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00545

Quant Time: Aug 20 02:31:38 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR081919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Aug 19 19:08:11 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 126374   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 117113   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 62978    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 31298    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 96.80%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 22666    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 96.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 56328    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 91.80%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 85192    | 48.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 97.86%  |
| 24) Chloroform-d               | 4.40   | 84    | 84540    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 44002    | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.80%  |
| 32) Benzene-d6                 | 5.09   | 84    | 150709   | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 40543    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 92.60%  |
| 41) Toluene-d8                 | 7.36   | 98    | 139703   | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.80%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 18524    | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 98.40%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 60802    | 51.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 102.44% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 30910    | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 92.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 60703    | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 95.80%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 89585  | 5.936  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 49909  | 6.323  | ug/L 100 |
| 5) Vinyl chloride              | 1.32 | 62  | 47037  | 5.662  | ug/L 97  |
| 6) Bromomethane                | 1.54 | 94  | 25210  | 5.886  | ug/L 93  |
| 8) Chloroethane                | 1.60 | 64  | 22287  | 5.383  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 81663  | 5.462  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 35422  | 5.487  | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 31275  | 5.392  | ug/L 93  |
| 13) Acetone                    | 2.23 | 43  | 47574  | 52.240 | ug/L 88  |
| 14) Carbon disulfide           | 2.32 | 76  | 83066  | 5.159  | ug/L 95  |
| 15) Methyl Acetate             | 2.47 | 43  | 9277   | 5.137  | ug/L 98  |
| 16) Methylene chloride         | 2.53 | 84  | 29893  | 4.950  | ug/L 96  |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 107688 | 5.821  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 46722  | 5.503  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 81745  | 5.614  | ug/L 99  |
| 21) 2-Butanone                 | 4.05 | 43  | 93102  | 53.881 | ug/L 98  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 49793  | 5.450  | ug/L 96  |

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 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00545

Quant Time: Aug 20 02:31:38 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR081919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Aug 19 19:08:11 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 4.29  | 128  | 23152    | 5.549  | ug/L   | 94       |
| 25) Chloroform                  | 4.42  | 83   | 94535    | 5.189  | ug/L   | 99       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 57101    | 5.499  | ug/L   | 98       |
| 29) 1,1,1-Trichloroethane       | 4.65  | 97   | 90647    | 5.786  | ug/L   | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 67616    | 5.765  | ug/L   | 98       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 83812    | 5.732  | ug/L   | 100      |
| 33) Benzene                     | 5.14  | 78   | 182919   | 5.647  | ug/L   | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 52435    | 5.519  | ug/L   | 96       |
| 35) Methylcyclohexane           | 6.17  | 83   | 79881    | 5.616  | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 39619    | 5.227  | ug/L   | 98       |
| 38) Bromodichloromethane        | 6.55  | 83   | 64965    | 5.673  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 66146    | 5.497  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 225089   | 56.556 | ug/L   | 98       |
| 42) Toluene                     | 7.43  | 91   | 201927   | 5.632  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 53768    | 5.596  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 31886    | 5.483  | ug/L   | 97       |
| 47) Tetrachloroethene           | 8.02  | 164  | 48613    | 5.545  | ug/L   | 99       |
| 48) 2-Hexanone                  | 8.19  | 43   | 164084   | 57.279 | ug/L   | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 44993    | 5.695  | ug/L   | 98       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 30749    | 5.597  | ug/L   | 98       |
| 51) Chlorobenzene               | 8.92  | 112  | 136381   | 5.575  | ug/L   | 99       |
| 52) Ethylbenzene                | 9.05  | 91   | 228232   | 5.689  | ug/L   | 97       |
| 53) m,p-xylene                  | 9.18  | 106  | 91171    | 5.821  | ug/L   | 92       |
| 54) o-xylene                    | 9.59  | 106  | 86955    | 5.773  | ug/L   | 99       |
| 55) Styrene                     | 9.60  | 104  | 145357   | 5.713  | ug/L   | 98       |
| 56) Isopropylbenzene            | 9.97  | 105  | 241407   | 5.806  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.28 | 83   | 32048    | 5.394  | ug/L # | 98       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 26203    | 5.577  | ug/L   | 98       |
| 61) Bromoform                   | 9.77  | 173  | 26398    | 6.068  | ug/L   | 99       |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 121288   | 5.690  | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 118202   | 5.575  | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 108734   | 5.559  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.47 | 75   | 6055     | 5.925  | ug/L   | 93       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 100120   | 5.726  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 76561    | 5.922  | ug/L   | 100      |
| 69) Naphthalene                 | 13.55 | 128  | 105885   | 6.021  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 71039    | 5.939  | ug/L   | 98       |

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

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Sample : VSTDCCC005  
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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
Client Sample Id :  
VSTD00545

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