

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042719\  
 Data File : VV010540.D  
 Acq On : 27 Apr 2019 09:51  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00550

Quant Time: Apr 29 02:02:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Apr 29 01:58:06 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 222379   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 219487   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 112586   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 55815    | 5.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 103.20% |
| 7) Chloroethane-d5             | 1.57   | 69    | 36669    | 6.33     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 126.60% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 99067    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 97.40%  |
| 20) 2-Butanone-d5              | 3.94   | 46    | 128373   | 46.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 92.04%  |
| 24) Chloroform-d               | 4.40   | 84    | 140789   | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 67896    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.60% |
| 32) Benzene-d6                 | 5.10   | 84    | 290311   | 5.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 107.20% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 76803    | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.40%  |
| 41) Toluene-d8                 | 7.36   | 98    | 290954   | 5.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 112.40% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 28635    | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 97.00%  |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 118187   | 47.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 94.86%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 61145    | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 99.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 117048   | 5.39     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 107.80% |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 93841  | 5.257  | ug/L 98  |
| 3) Chloromethane               | 1.26 | 50  | 67353  | 5.691  | ug/L 100 |
| 5) Vinyl chloride              | 1.33 | 62  | 66849  | 5.399  | ug/L 96  |
| 6) Bromomethane                | 1.51 | 94  | 28664  | 5.347  | ug/L 94  |
| 8) Chloroethane                | 1.59 | 64  | 31757  | 6.369  | ug/L 95  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 129364 | 5.331  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 56659  | 4.707  | ug/L 96  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 51637  | 4.809  | ug/L 92  |
| 13) Acetone                    | 2.19 | 43  | 63786  | 45.898 | ug/L 95  |
| 14) Carbon disulfide           | 2.31 | 76  | 134399 | 4.958  | ug/L 99  |
| 15) Methyl Acetate             | 2.46 | 43  | 21773  | 4.722  | ug/L 97  |
| 16) Methylene chloride         | 2.53 | 84  | 80557  | 4.961  | ug/L 96  |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 159548 | 5.131  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 79551  | 5.186  | ug/L 94  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 132982 | 5.257  | ug/L 96  |
| 21) 2-Butanone                 | 4.02 | 43  | 138784 | 48.316 | ug/L 98  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 87730  | 5.298  | ug/L 95  |

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 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00550

Quant Time: Apr 29 02:02:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Mon Apr 29 01:58:06 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 40645    | 5.251  | ug/L   | 93       |
| 25) Chloroform                  | 4.43  | 83   | 164002   | 5.716  | ug/L   | 100      |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 84039    | 5.144  | ug/L   | 96       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 140969   | 5.484  | ug/L   | 100      |
| 30) Cyclohexane                 | 4.72  | 56   | 100167   | 5.376  | ug/L   | 99       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 131065   | 5.332  | ug/L   | 98       |
| 33) Benzene                     | 5.15  | 78   | 304675   | 5.365  | ug/L   | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 89109    | 5.391  | ug/L   | 96       |
| 35) Methylcyclohexane           | 6.18  | 83   | 111430   | 5.195  | ug/L   | 95       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 66171    | 5.055  | ug/L # | 96       |
| 38) Bromodichloromethane        | 6.55  | 83   | 98309    | 5.230  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 93342    | 4.938  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone        | 7.27  | 43   | 353093   | 50.856 | ug/L   | 99       |
| 42) Toluene                     | 7.43  | 91   | 343996   | 5.519  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 74768    | 5.031  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 57613    | 5.191  | ug/L   | 97       |
| 47) Tetrachloroethene           | 8.02  | 164  | 86845    | 5.625  | ug/L   | 98       |
| 48) 2-Hexanone                  | 8.18  | 43   | 251734   | 51.965 | ug/L   | 96       |
| 49) Dibromochloromethane        | 8.29  | 129  | 73366    | 5.376  | ug/L   | 98       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 54508    | 5.317  | ug/L   | 97       |
| 51) Chlorobenzene               | 8.93  | 112  | 241908   | 5.528  | ug/L   | 98       |
| 52) Ethylbenzene                | 9.05  | 91   | 369066   | 5.619  | ug/L   | 100      |
| 53) m,p-xylene                  | 9.18  | 106  | 150222   | 5.823  | ug/L   | 97       |
| 54) o-xylene                    | 9.59  | 106  | 145119   | 5.753  | ug/L   | 97       |
| 55) Styrene                     | 9.60  | 104  | 244318   | 5.856  | ug/L   | 100      |
| 56) Isopropylbenzene            | 9.97  | 105  | 360353   | 5.450  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 61351    | 5.068  | ug/L   | 97       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 43062    | 5.136  | ug/L   | 100      |
| 61) Bromoform                   | 9.77  | 173  | 38462    | 5.256  | ug/L   | 98       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 190941   | 5.498  | ug/L   | 100      |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 189360   | 5.317  | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 189069   | 5.528  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 8526     | 4.513  | ug/L # | 84       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 155201   | 5.329  | ug/L   | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 114988   | 5.174  | ug/L   | 99       |
| 69) Naphthalene                 | 13.55 | 128  | 156755   | 4.742  | ug/L   | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 113233   | 5.122  | ug/L   | 100      |

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

