

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090819\  
 Data File : VU034394.D  
 Acq On : 07 Sep 2019 21:03  
 Operator : JC/SP  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00518

Quant Time: Sep 08 02:36:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR090119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Sep 03 14:18:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 274050   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 276926   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 151945   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 80410    | 4.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 87.20%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 72568    | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 98.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 164969   | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 95.40%  |
| 20) 2-Butanone-d5              | 4.18   | 46    | 237987   | 55.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 111.64% |
| 24) Chloroform-d               | 4.63   | 84    | 168712   | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.60% |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 79870    | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.40%  |
| 32) Benzene-d6                 | 5.32   | 84    | 348772   | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 110937   | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.00%  |
| 41) Toluene-d8                 | 7.54   | 98    | 324532   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.00%  |
| 43) trans-1,3-Dichloropropene- | 7.83   | 79    | 38515    | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 96.60%  |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 190329   | 55.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 110.14% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 88493    | 5.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 106.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84  | 152   | 131626   | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.80% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85   | 128229   | 4.883  | ug/L  | 99     |
| 3) Chloromethane               | 1.32 | 50   | 123366   | 4.758  | ug/L  | 100    |
| 5) Vinyl chloride              | 1.40 | 62   | 131065   | 4.870  | ug/L  | 100    |
| 6) Bromomethane                | 1.62 | 94   | 56265    | 4.448  | ug/L  | 99     |
| 8) Chloroethane                | 1.69 | 64   | 77239    | 5.000  | ug/L  | 97     |
| 9) Trichlorofluoromethane      | 1.88 | 101  | 157113   | 5.226  | ug/L  | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101  | 92563    | 5.351  | ug/L  | 97     |
| 12) 1,1-Dichloroethene         | 2.27 | 96   | 91871    | 5.390  | ug/L  | 90     |
| 13) Acetone                    | 2.32 | 43   | 144383   | 50.577 | ug/L  | 98     |
| 14) Carbon disulfide           | 2.47 | 76   | 291418   | 5.009  | ug/L  | 99     |
| 15) Methyl Acetate             | 2.61 | 43   | 40331    | 5.036  | ug/L  | 97     |
| 16) Methylene chloride         | 2.68 | 84   | 98917    | 5.112  | ug/L  | 93     |
| 17) Methyl tert-butyl Ether    | 2.99 | 73   | 222627   | 5.249  | ug/L  | 98     |
| 18) trans-1,2-Dichloroethene   | 2.96 | 96   | 98017    | 5.318  | ug/L  | 97     |
| 19) 1,1-Dichloroethane         | 3.42 | 63   | 185699   | 5.109  | ug/L  | 99     |
| 21) 2-Butanone                 | 4.26 | 43   | 258766   | 54.406 | ug/L  | 100    |
| 22) cis-1,2-Dichloroethene     | 4.20 | 96   | 107013   | 5.163  | ug/L  | 91     |

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 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00518

Quant Time: Sep 08 02:36:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR090119WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Sep 03 14:18:00 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.53  | 128  | 49166    | 5.524  | ug/L  | 92       |
| 25) Chloroform                  | 4.65  | 83   | 182451   | 4.931  | ug/L  | 97       |
| 27) 1,2-Dichloroethane          | 5.39  | 62   | 104274   | 5.106  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane       | 4.89  | 97   | 149119   | 4.911  | ug/L  | 98       |
| 30) Cyclohexane                 | 4.97  | 56   | 157323   | 4.380  | ug/L  | 98       |
| 31) Carbon tetrachloride        | 5.11  | 117  | 133855   | 4.985  | ug/L  | 100      |
| 33) Benzene                     | 5.37  | 78   | 407837   | 4.869  | ug/L  | 100      |
| 34) Trichloroethene             | 6.16  | 95   | 103587   | 4.798  | ug/L  | 94       |
| 35) Methylcyclohexane           | 6.39  | 83   | 166231   | 4.647  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.41  | 63   | 106989   | 4.958  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.74  | 83   | 123596   | 4.917  | ug/L  | 96       |
| 39) cis-1,3-Dichloropropene     | 7.25  | 75   | 136340   | 4.532  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone        | 7.45  | 43   | 615624   | 51.417 | ug/L  | 99       |
| 42) Toluene                     | 7.62  | 91   | 436642   | 4.940  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.86  | 75   | 108258   | 4.842  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 8.05  | 97   | 71441    | 5.162  | ug/L  | 99       |
| 47) Tetrachloroethene           | 8.21  | 164  | 90644    | 5.109  | ug/L  | 95       |
| 48) 2-Hexanone                  | 8.35  | 43   | 445155   | 53.386 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.46  | 129  | 87587    | 5.334  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.57  | 107  | 67640    | 5.164  | ug/L  | 99       |
| 51) Chlorobenzene               | 9.10  | 112  | 279937   | 4.965  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.23  | 91   | 453762   | 4.751  | ug/L  | 99       |
| 53) m,p-Xylene                  | 9.35  | 106  | 176971   | 4.820  | ug/L  | 98       |
| 54) o-Xylene                    | 9.76  | 106  | 174243   | 4.953  | ug/L  | 100      |
| 55) Styrene                     | 9.77  | 104  | 304701   | 5.185  | ug/L  | 97       |
| 56) Isopropylbenzene            | 10.14 | 105  | 444183   | 4.746  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.44 | 83   | 93737    | 5.267  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.47 | 75   | 65105    | 5.268  | ug/L  | 98       |
| 61) Bromoform                   | 9.94  | 173  | 51676    | 5.434  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.40 | 146  | 238441   | 5.034  | ug/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.49 | 146  | 239652   | 5.018  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 11.85 | 146  | 225749   | 5.200  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.64 | 75   | 13658    | 5.196  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 12.87 | 180  | 182029   | 4.798  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.48 | 180  | 142949   | 4.916  | ug/L  | 96       |
| 69) Naphthalene                 | 13.72 | 128  | 216468   | 4.944  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.97 | 180  | 139177   | 5.256  | ug/L  | 98       |

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

