

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101020\  
 Data File : VU040625.D  
 Acq On : 10 Oct 2020 10:28  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050212

Quant Time: Oct 12 01:29:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMUL100620WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 08 11:15:24 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 281566   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 272427   | 50.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 143813   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60    | 65    | 112134   | 46.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 92.74%  |
| 7) Chloroethane-d5             | 1.92    | 69    | 85451    | 46.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 92.78%  |
| 11) 1,1-Dichloroethene-d2      | 2.58    | 63    | 221776   | 48.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.14%  |
| 21) 2-Butanone-d5              | 4.65    | 46    | 214001   | 111.51   | ug/L | 0.01    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 111.51% |
| 24) Chloroform-d               | 5.08    | 84    | 209208   | 50.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.32% |
| 26) 1,2-Dichloroethane-d4      | 5.72    | 65    | 141419   | 48.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.36%  |
| 32) Benzene-d6                 | 5.74    | 84    | 386644   | 49.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.74%  |
| 36) 1,2-Dichloropropane-d6     | 6.70    | 67    | 129639   | 49.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 99.78%  |
| 41) Toluene-d8                 | 7.90    | 98    | 351050   | 49.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.90%  |
| 43) trans-1,3-Dichloropropene- | 8.19    | 79    | 63384    | 48.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 97.46%  |
| 47) 2-Hexanone-d5              | 8.64    | 63    | 137221   | 113.27   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 113.27% |
| 56) 1,1,2,2-Tetrachloroethane- | 10.75   | 84    | 184086   | 49.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.08%  |
| 66) 1,2-Dichlorobenzene-d4     | 12.19   | 152   | 138436   | 47.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.60%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc    | Units | Ovalue |
|--------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85   | 133924   | 49.396  | ug/L  | 100    |
| 3) Chloromethane               | 1.53 | 50   | 127293   | 44.678  | ug/L  | 98     |
| 5) Vinyl chloride              | 1.61 | 62   | 135090   | 47.889  | ug/L  | 98     |
| 6) Bromomethane                | 1.87 | 94   | 62660    | 42.321  | ug/L  | 97     |
| 8) Chloroethane                | 1.94 | 64   | 80127    | 47.078  | ug/L  | 98     |
| 9) Trichlorofluoromethane      | 2.15 | 101  | 180347   | 49.841  | ug/L  | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101  | 109739   | 50.877  | ug/L  | 99     |
| 12) 1,1-Dichloroethene         | 2.59 | 96   | 99977    | 50.132  | ug/L  | 85     |
| 13) Acetone                    | 2.66 | 43   | 226492   | 122.895 | ug/L  | 100    |
| 14) Carbon disulfide           | 2.81 | 76   | 326734   | 47.724  | ug/L  | 100    |
| 15) Methyl Acetate             | 2.97 | 43   | 156628   | 52.103  | ug/L  | 100    |
| 16) Methylene chloride         | 3.06 | 84   | 113210   | 47.868  | ug/L  | 94     |
| 17) trans-1,2-Dichloroethene   | 3.37 | 96   | 104386   | 49.145  | ug/L  | 95     |
| 18) Methyl tert-butyl Ether    | 3.38 | 73   | 329288   | 49.290  | ug/L  | 100    |
| 19) 1,1-Dichloroethane         | 3.89 | 63   | 208286   | 49.167  | ug/L  | 99     |
| 20) cis-1,2-Dichloroethene     | 4.68 | 96   | 111600   | 48.752  | ug/L  | 99     |
| 22) 2-Butanone                 | 4.73 | 43   | 265596   | 112.973 | ug/L  | 99     |

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 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050212

Quant Time: Oct 12 01:29:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMUL100620WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 08 11:15:24 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane         | 4.99  | 128  | 58550    | 49.082  | ug/L  | 95       |
| 25) Chloroform                 | 5.11  | 83   | 213220   | 49.360  | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.81  | 62   | 174826   | 49.041  | ug/L  | 98       |
| 29) Cyclohexane                | 5.40  | 56   | 187320   | 51.353  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane      | 5.33  | 97   | 179782   | 51.383  | ug/L  | 99       |
| 31) Carbon tetrachloride       | 5.54  | 117  | 157671   | 52.114  | ug/L  | 99       |
| 33) Benzene                    | 5.79  | 78   | 451201   | 51.241  | ug/L  | 100      |
| 34) Trichloroethene            | 6.55  | 95   | 113092   | 49.856  | ug/L  | 99       |
| 35) Methylcyclohexane          | 6.77  | 83   | 180828   | 52.433  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.80  | 63   | 119167   | 49.282  | ug/L  | 100      |
| 38) Bromodichloromethane       | 7.11  | 83   | 157518   | 50.151  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.61  | 75   | 179858   | 50.752  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone       | 7.80  | 43   | 411431   | 107.833 | ug/L  | 100      |
| 42) Toluene                    | 7.97  | 91   | 470472   | 52.333  | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene  | 8.21  | 75   | 180342   | 50.543  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 8.40  | 97   | 107357   | 49.562  | ug/L  | 97       |
| 46) Tetrachloroethene          | 8.56  | 164  | 84043    | 51.275  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.69  | 43   | 350468   | 113.015 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.81  | 129  | 120478   | 50.937  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.93  | 107  | 117583   | 51.206  | ug/L  | 94       |
| 51) Chlorobenzene              | 9.45  | 112  | 290722   | 49.305  | ug/L  | 99       |
| 52) Ethylbenzene               | 9.57  | 91   | 509201   | 51.030  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.69  | 106  | 189898   | 51.681  | ug/L  | 97       |
| 54) o-xylene                   | 10.10 | 106  | 180860   | 51.734  | ug/L  | 97       |
| 55) Styrene                    | 10.11 | 104  | 324348   | 52.674  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane  | 10.78 | 83   | 189449   | 49.457  | ug/L  | 99       |
| 59) Bromoform                  | 10.29 | 173  | 87771    | 49.794  | ug/L  | 99       |
| 60) 1,2,3-Trichloropropane     | 10.82 | 75   | 158002   | 48.368  | ug/L  | 99       |
| 61) Isopropylbenzene           | 10.48 | 105  | 480606   | 49.763  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene     | 11.09 | 105  | 408938   | 51.535  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene     | 11.47 | 105  | 411249   | 51.101  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene        | 11.74 | 146  | 230308   | 48.905  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene        | 11.83 | 146  | 236099   | 47.734  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene        | 12.21 | 146  | 229130   | 48.569  | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropropan | 12.99 | 75   | 47498    | 51.751  | ug/L  | 96       |
| 69) 1,3,5-Trichlorobenzene     | 13.21 | 180  | 157402   | 51.013  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene     | 13.83 | 180  | 136817   | 51.159  | ug/L  | 99       |
| 71) Naphthalene                | 14.08 | 128  | 436140   | 52.761  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene     | 14.32 | 180  | 138453   | 52.157  | ug/L  | 99       |

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

