|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  | Mean Percentage Error (%) | Mean Absolute Error | Median Absolute Percentage Error (%) | Median Absolute Error |
| **St Louis to Iowa City Transport Test** | CO2 | ppm | -10 | 621 | 13 | 461 |
| H2O with Perspiration | mbar | 10 | 2.1 | 7.5 | 1.8 |
| H2O without Perspiration  | mbar | -10.2 | 2.6 | 14.6 | 2.8 |
| **Simulation of Blower Failure** | CO2 | ppm | -17 | 1071 | 12 | 423 |
| H2O with Perspiration | mbar | 12 | 3.3 | 9.7 | 2.1 |
| H2O without Perspiration  | mbar | -10.1 | 2.0 | 15.3 | 2.6 |
| **Stationary Test in LA County** | CO2 | ppm | 11 | 411 | 13 | 387 |
| H2O with Perspiration | mbar | 12 | 2.4 | 10.5 | 2.4 |
| H2O without Perspiration  | mbar | -9.8 | 2.1 | 11.8 | 2.2 |

**Supplemental Table 1.** Comparison between experimental and modeled CO2 and H2O concentrations inside the isolator.