



16 Typical Sample Test Date – Gyro Noise

Please find below typical 200Hz sample test data for Noise and In-Run Bias from a production LandMark™ 10 IMU “LN Series” for user reference. The charts are in run bias plots for the X, Y and Z channel gyros and accelerometers for SN100 which incorporates the family model upgrade to the new LandMark™ 10 IMU “LN Series” configuration (SN100+).

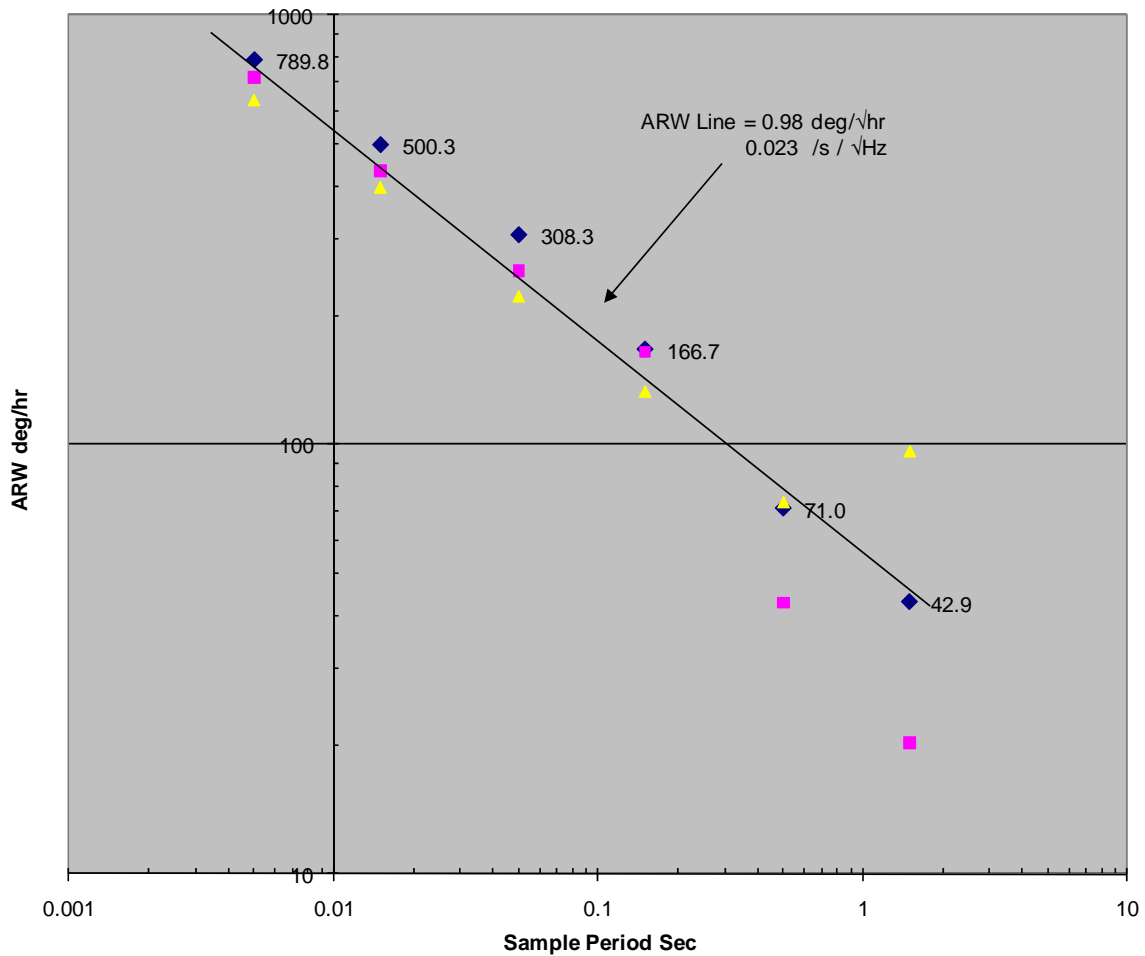


Figure 36: X,Y, Z Gyro Angle Random Walk (ARW)



17 Typical Sample Test Data – In Run Bias

Please find below typical 1Hz sample test data for In Run Bias from a production LandMark™ 10 IMU “LN Series” for user reference. The charts are in run bias plots for the X, Y and Z channel gyros and accelerometers. The data was taken for 5 minutes after a 30 minute warm-up period at ambient temperature. The test conditions should be similar to what a user should likely have during initial setup. If the user is not obtaining laboratory test data similar to the data plots and charts below please contact the factory for consultation and assistance.

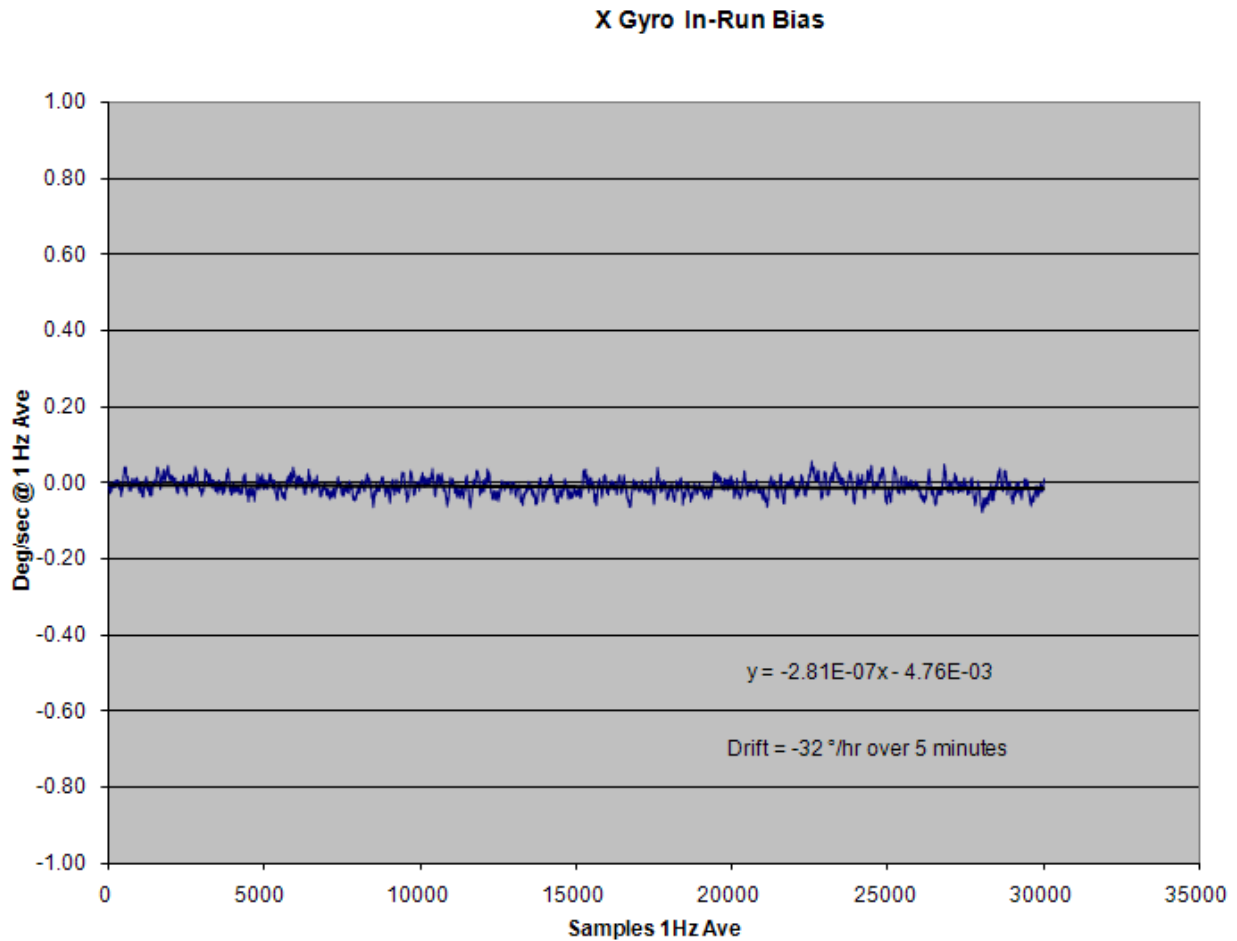


Figure 37: X Gyro In-Run Bias



Y Gyro In-Run Bias

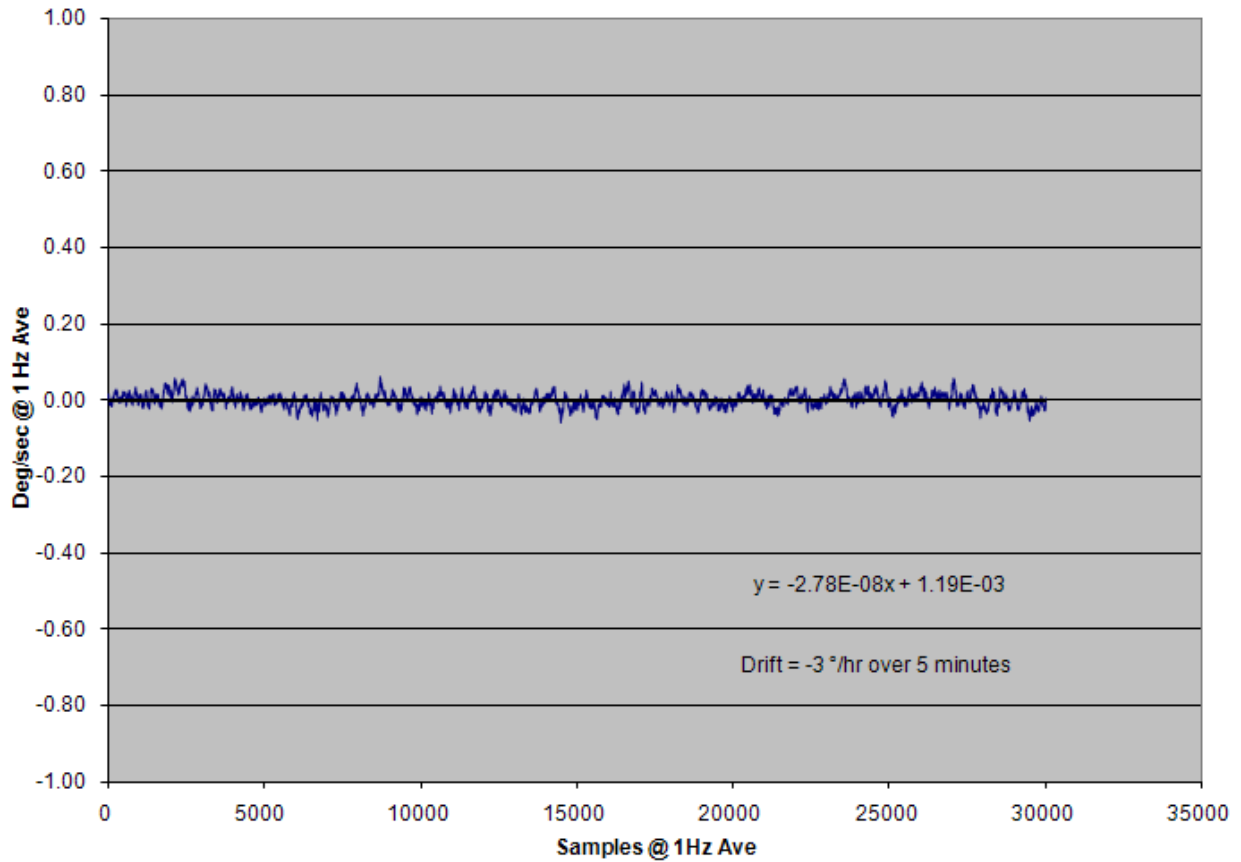


Figure 38: Y Gyro In-Run Bias



Z Gyro In-Run Bias

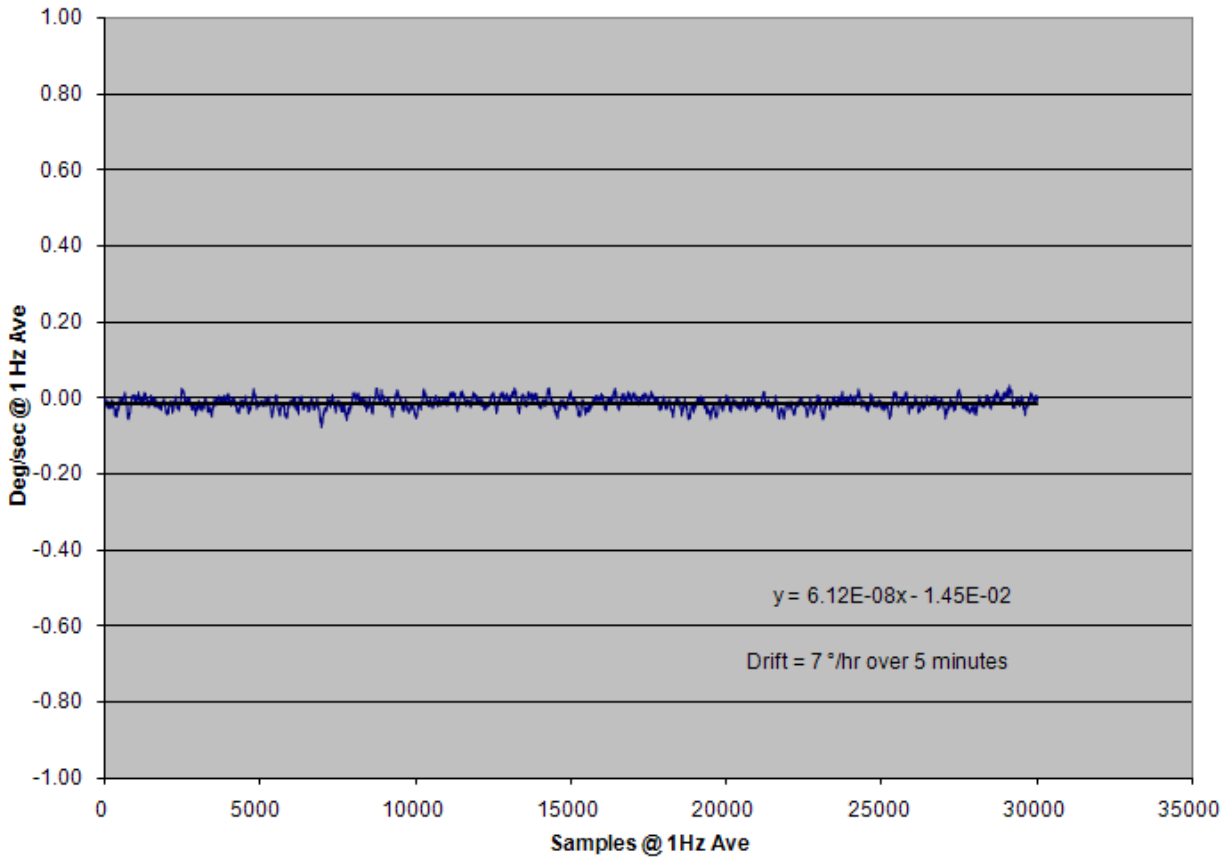


Figure 39: Z Gyro In-Run Bias



X Accel In-Run

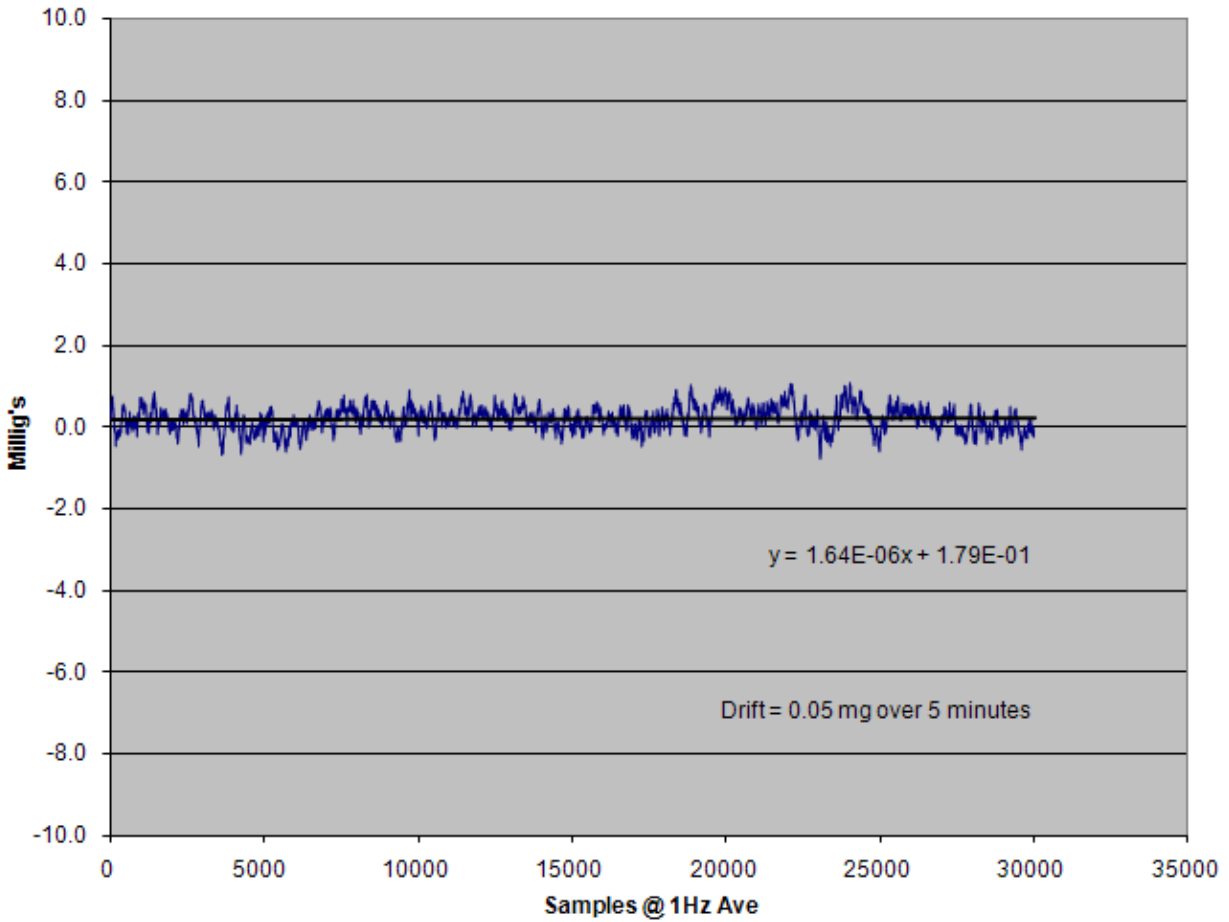


Figure 40: X Accel In-Run Bias



Y Accel In-Run

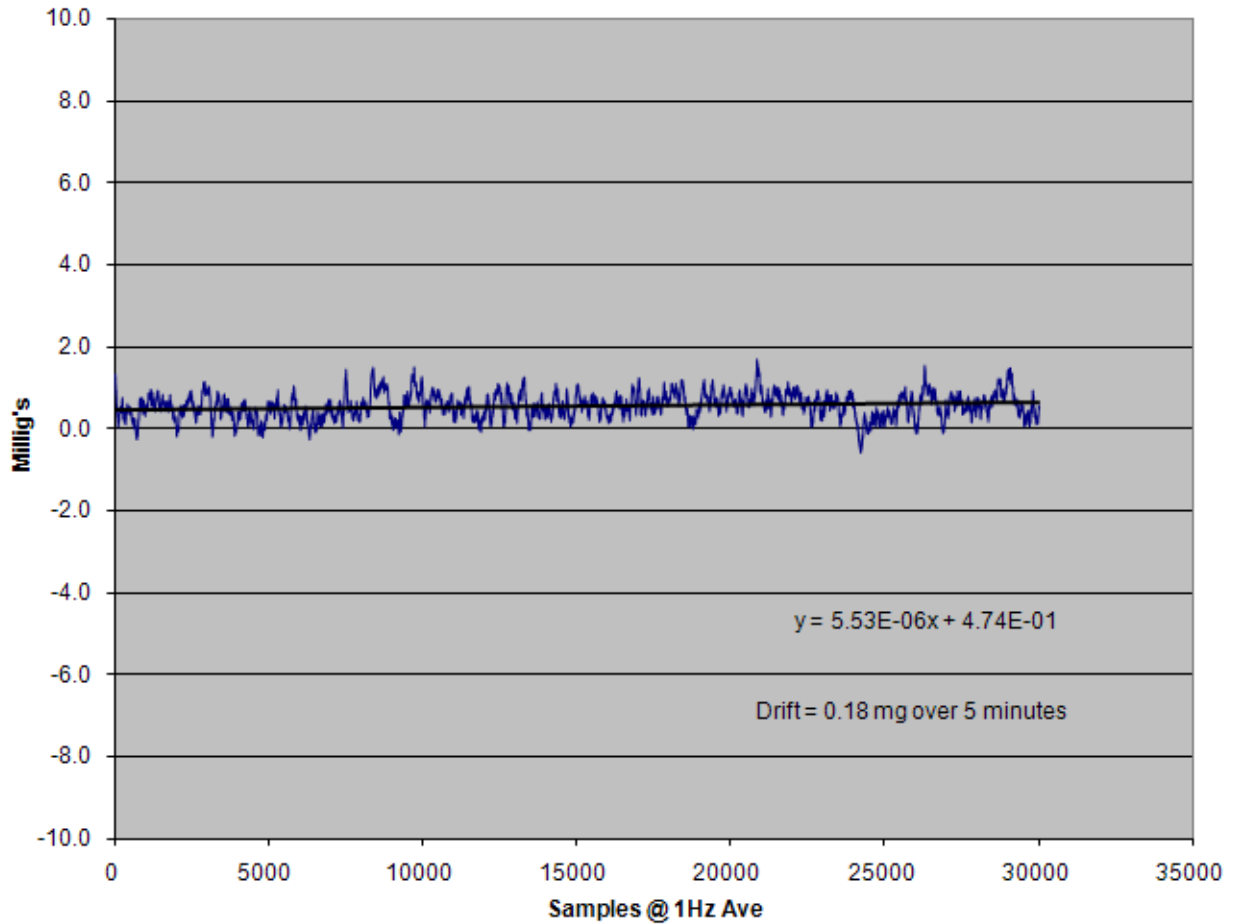


Figure 41: Y Accel In-Run Bias



Z Accel In-Run

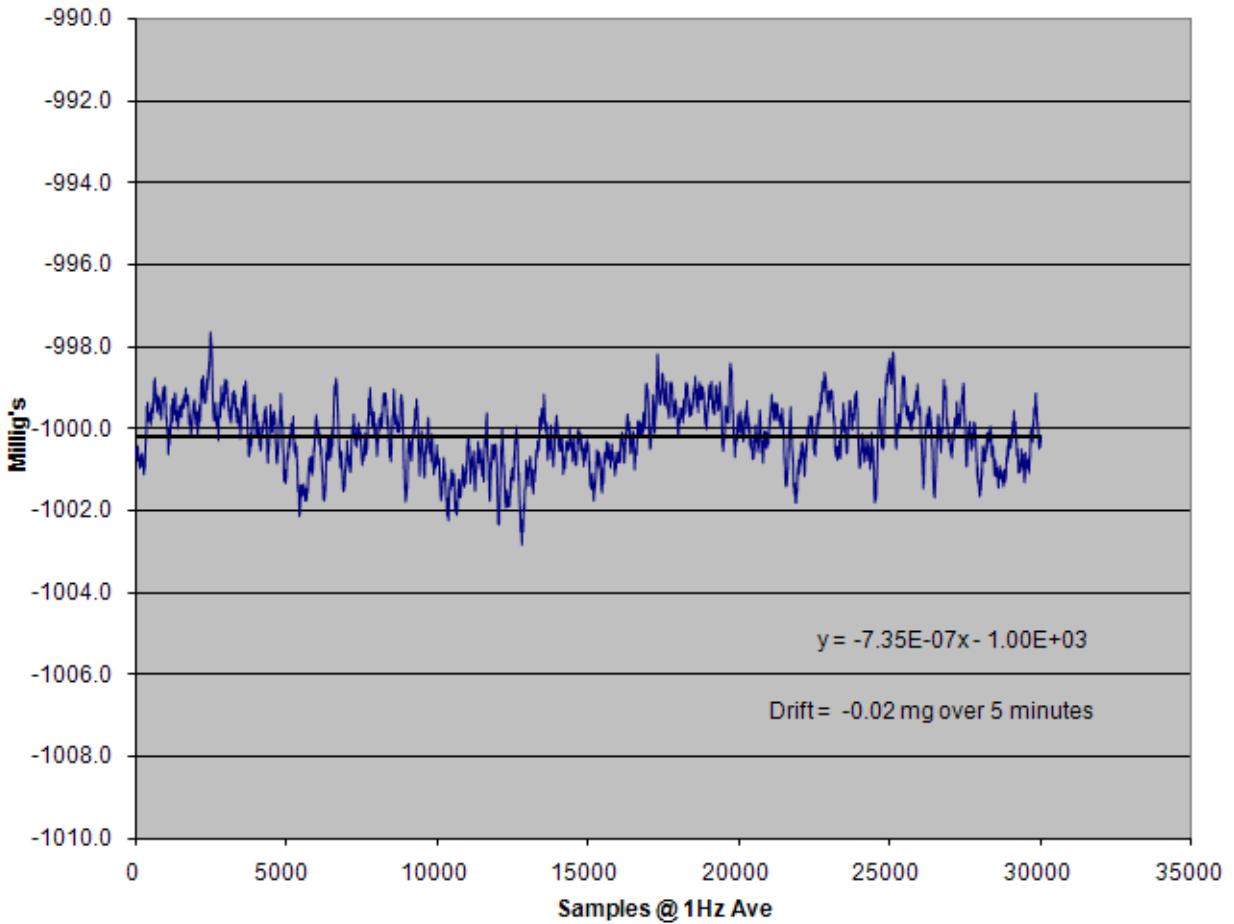


Figure 42: Z Accel In-Run Bias