

**Analysis Date** 17-Jul-2011  
**Subject** Analysis Report

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## 1 Device and Recording Information

This is a draft report of a general-purpose analysis. This version assumes that a button was used to mark the beginning and end of an analysis period of interest.

## 2 Time Domain Plots in the Sensor Frame

### 2.1 Accelerometers

#### 2.1.1 Device 1

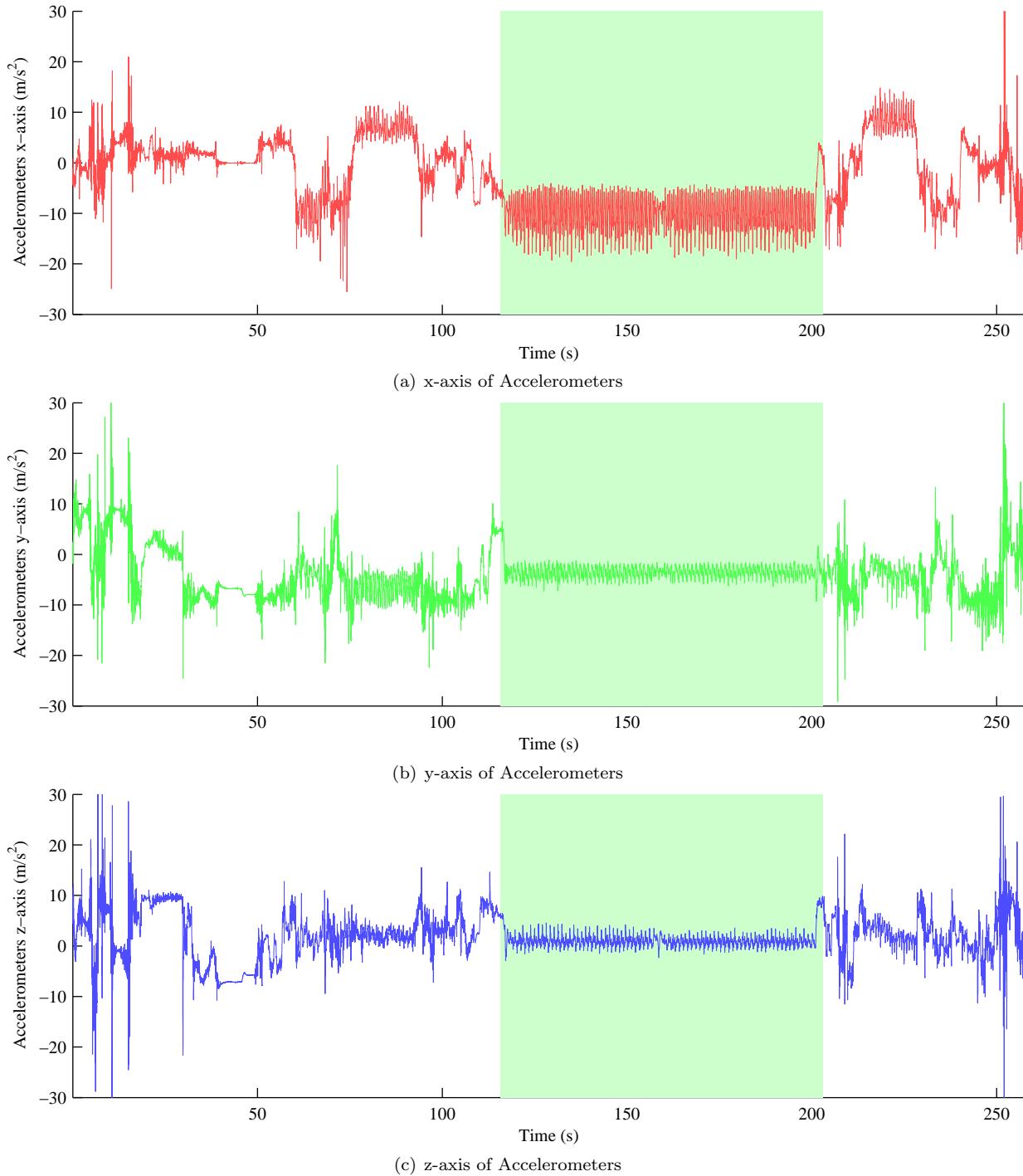


Figure 1: Time Domain Plots in the Sensor Frame of the accelerometers while the monitor. Plot of the time domain data.

### 2.1.2 Device 2

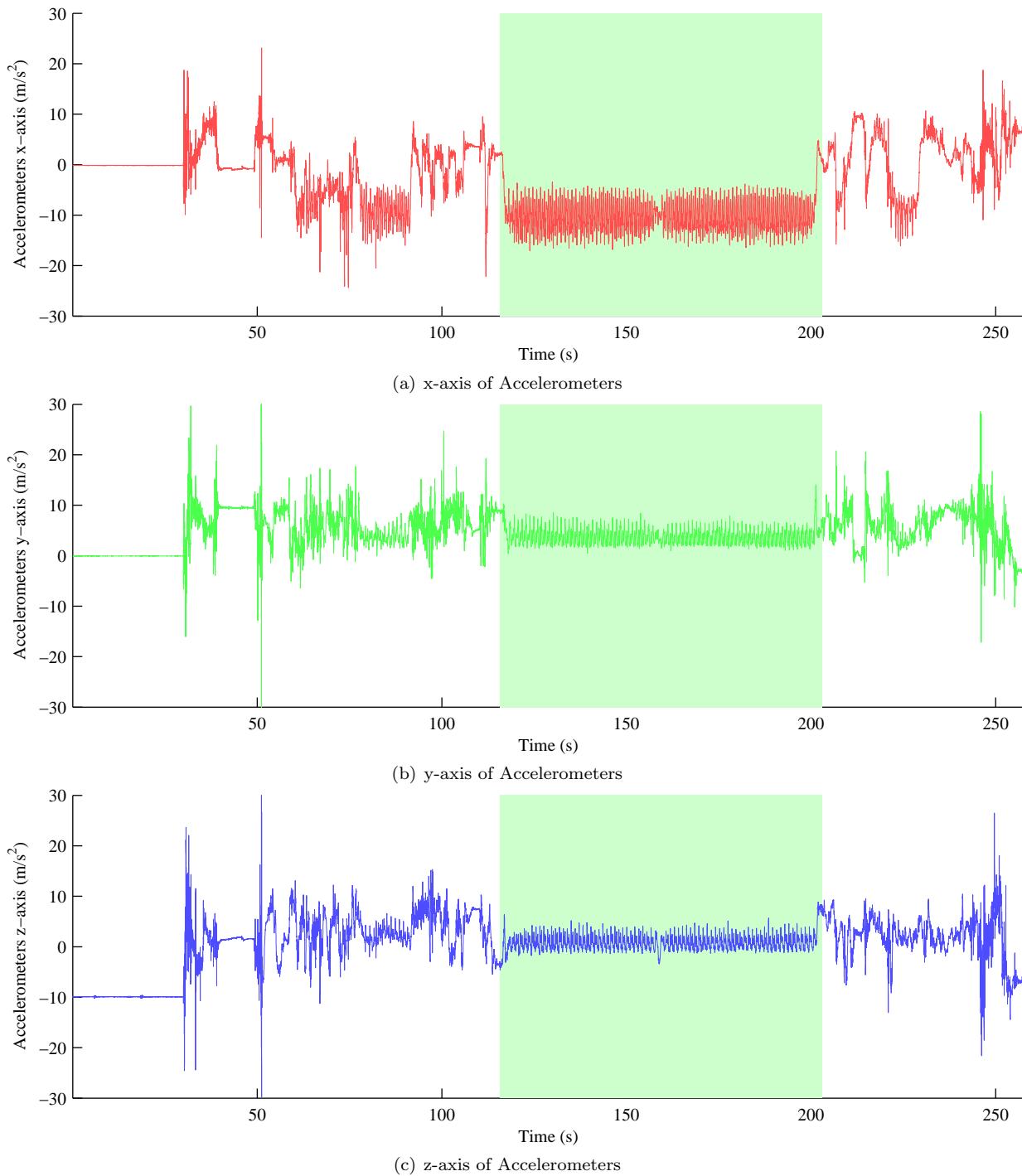


Figure 2: Time Domain Plots in the Sensor Frame of the accelerometers while the monitor. Plot of the time domain data.

## 2.2 Gyroscopes

### 2.2.1 Device 1

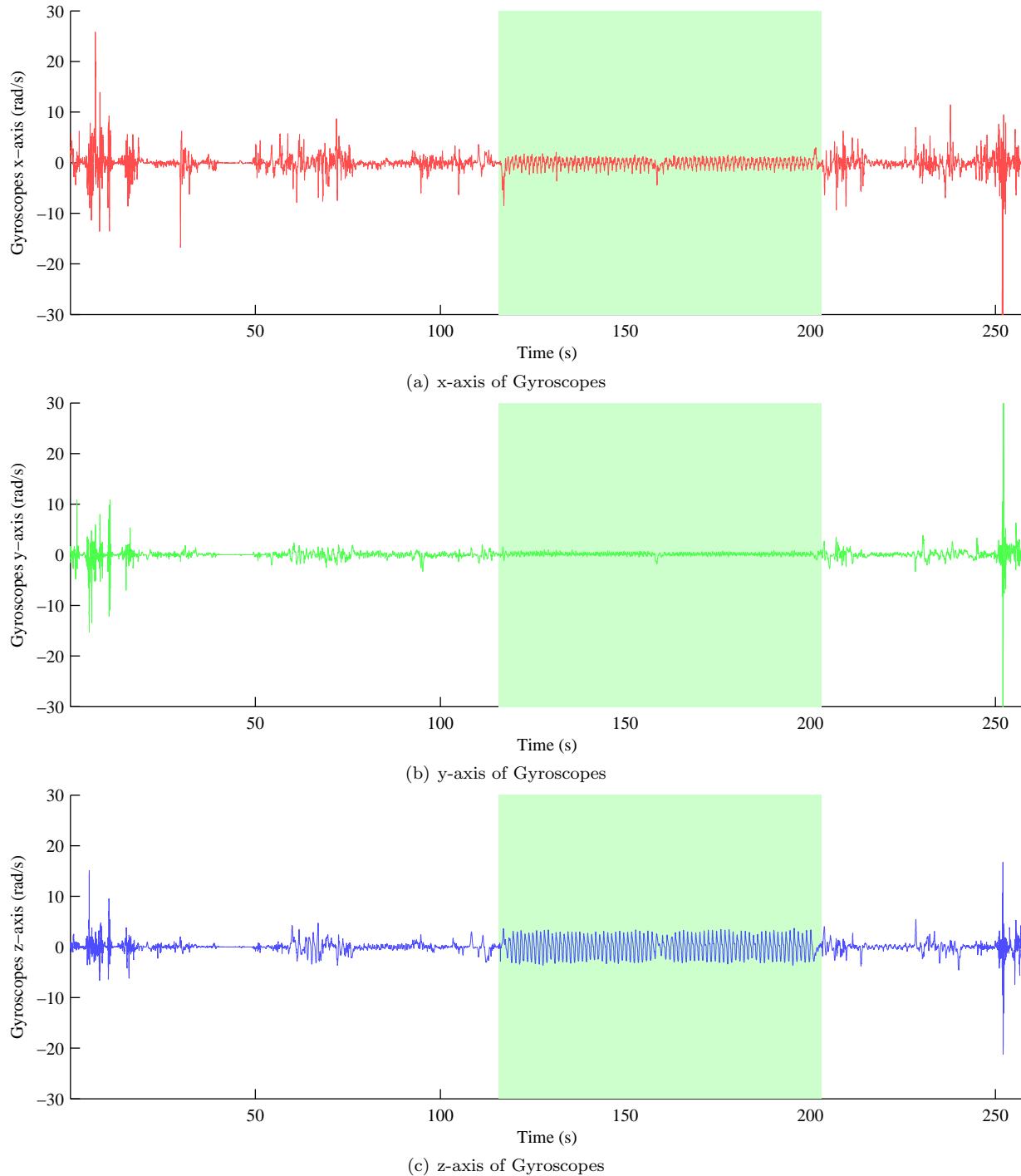


Figure 3: Time Domain Plots in the Sensor Frame of the gyroscopes while the monitor. Plot of the time domain data.

### 2.2.2 Device 2

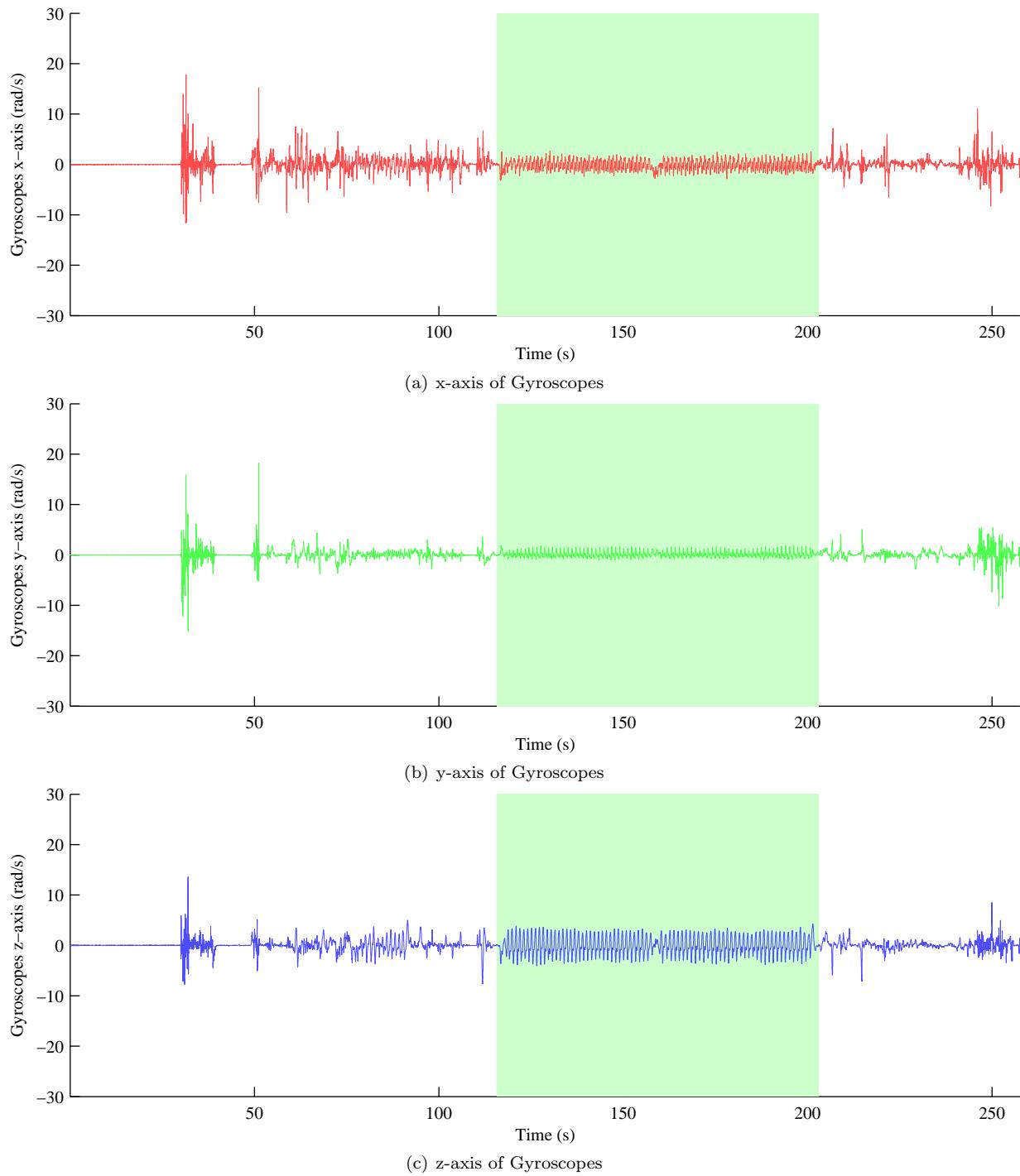


Figure 4: Time Domain Plots in the Sensor Frame of the gyroscopes while the monitor. Plot of the time domain data.

## 2.3 Magnetometers

### 2.3.1 Device 1

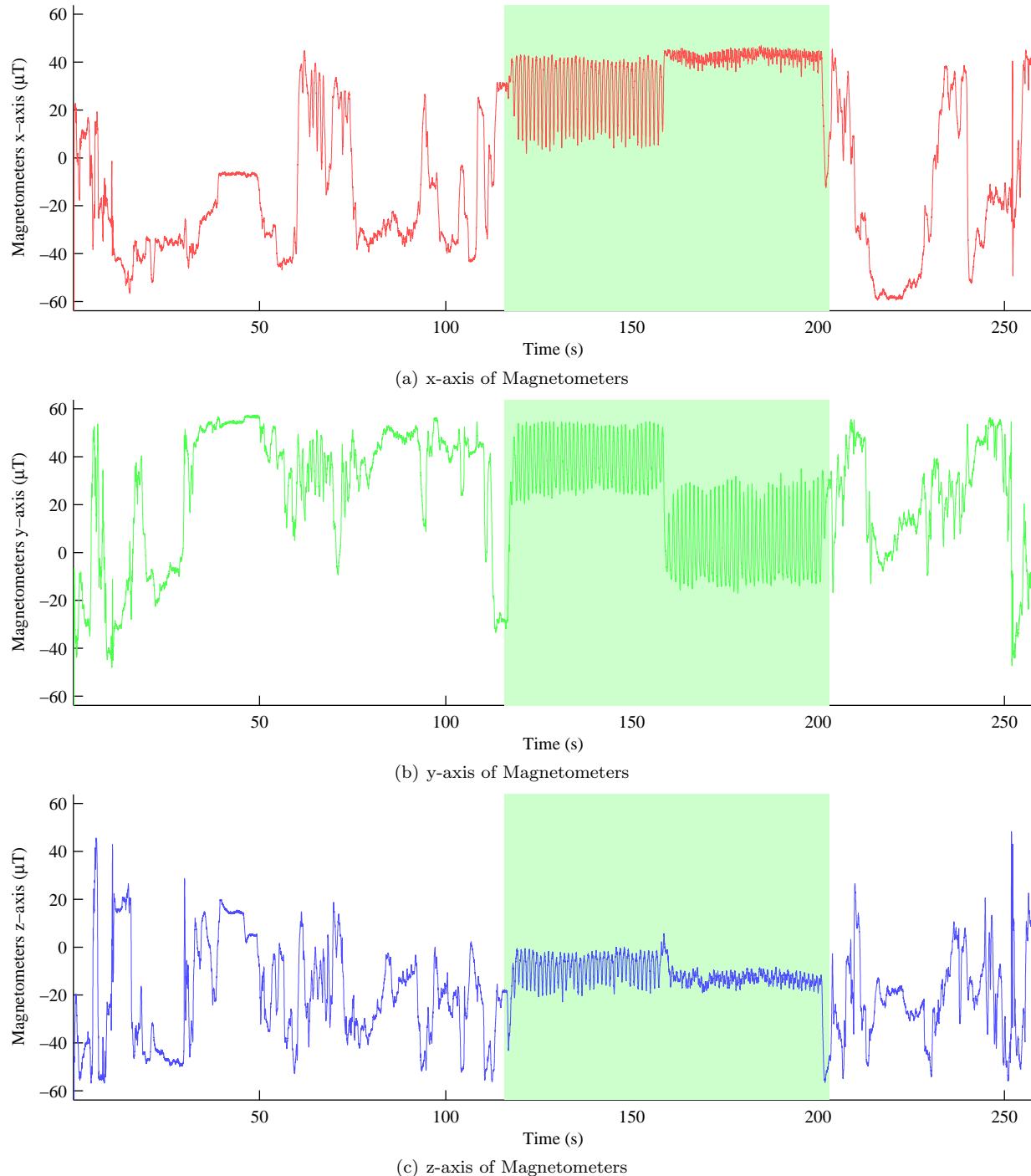


Figure 5: Time Domain Plots in the Sensor Frame of the magnetometers while the monitor. Plot of the time domain data.

### 2.3.2 Device 2

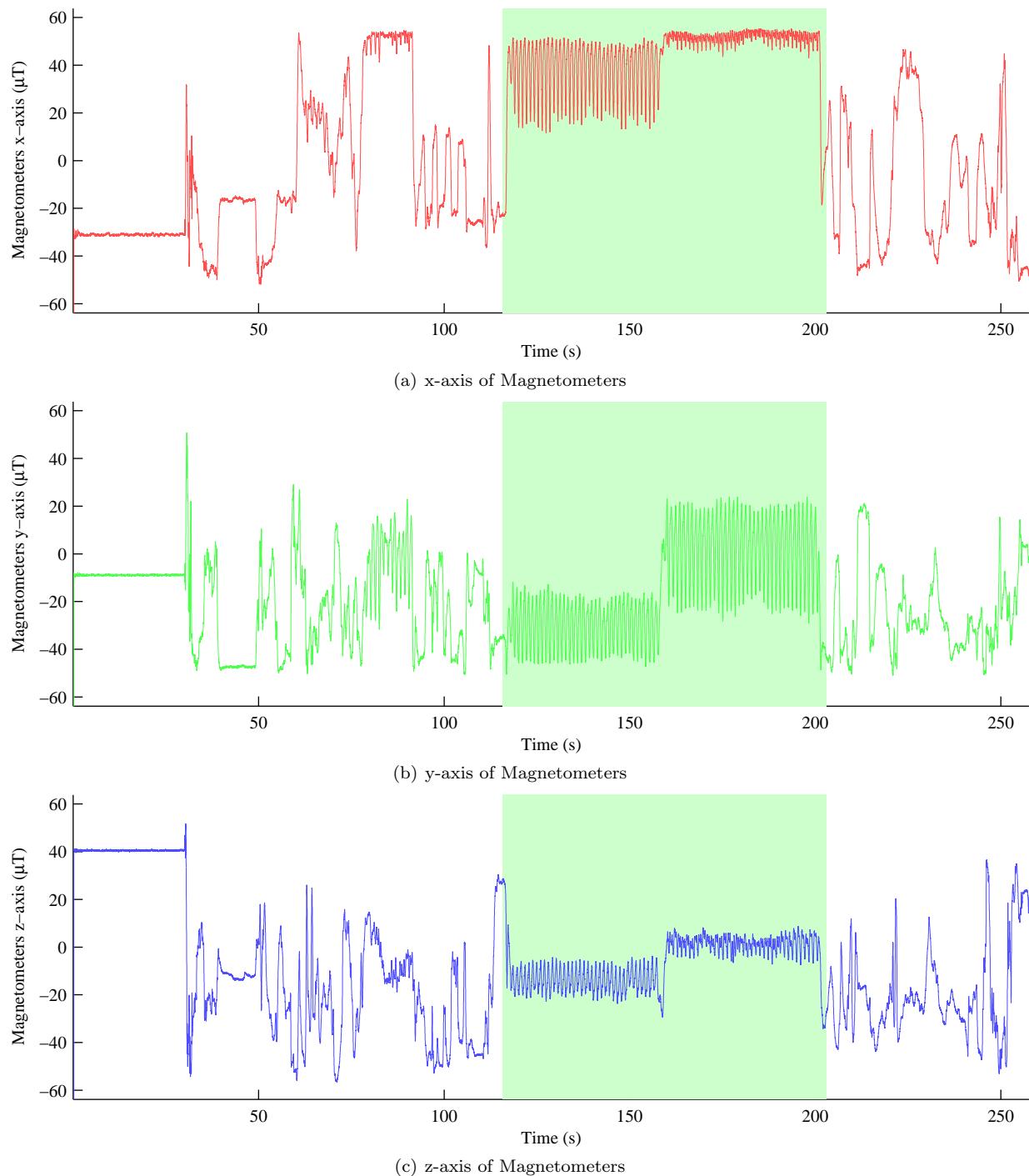


Figure 6: Time Domain Plots in the Sensor Frame of the magnetometers while the monitor. Plot of the time domain data.

### 3 Segment Analysis

#### 3.1 Segment 1

##### 3.1.1 Device 1

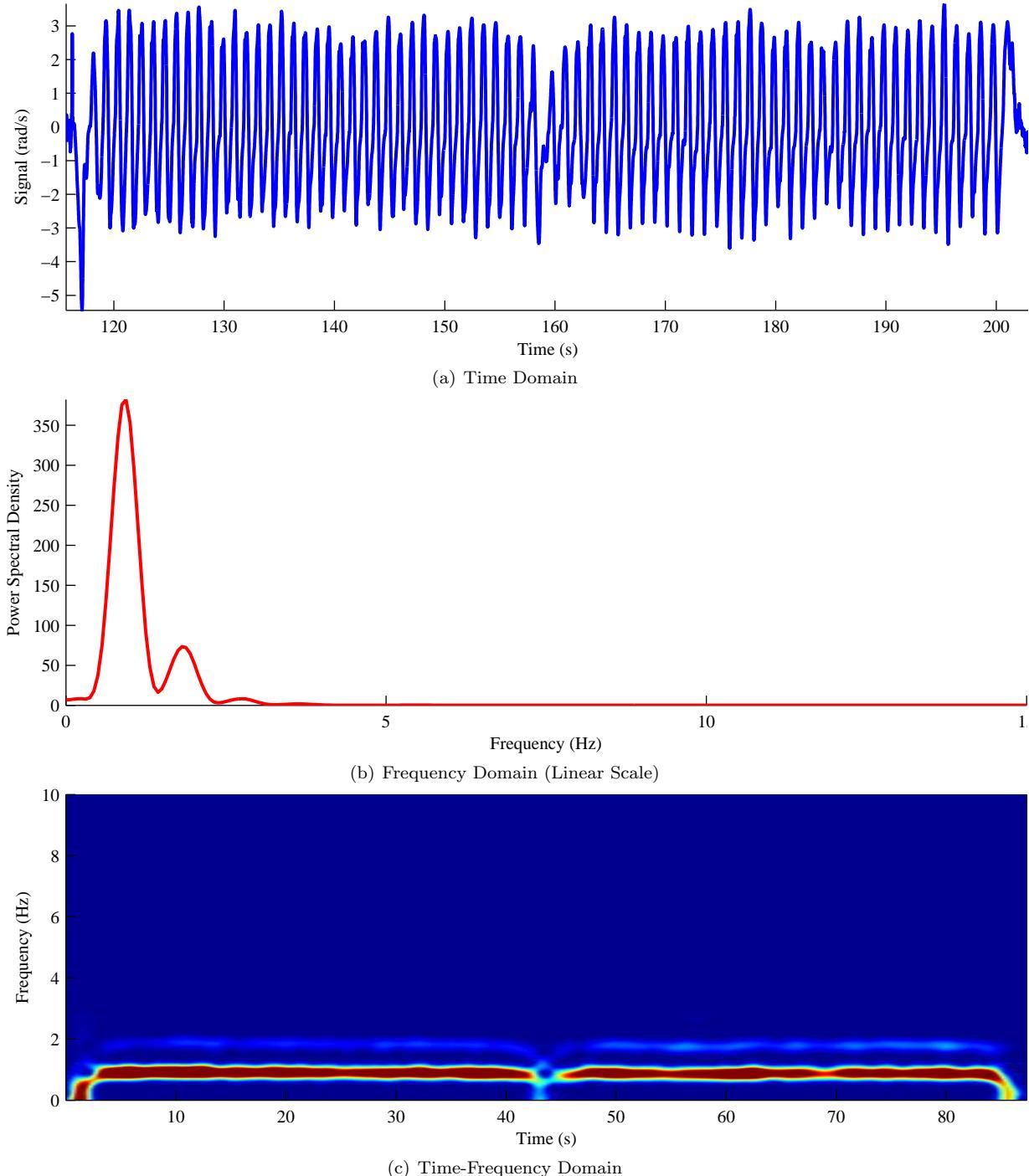


Figure 7: Analysis of the principal component of the gyroscopes signals. The power spectral density was estimated with the Blackman-Tukey method and a 5.0 autocorrelation window duration.

### 3.1.2 Device 2

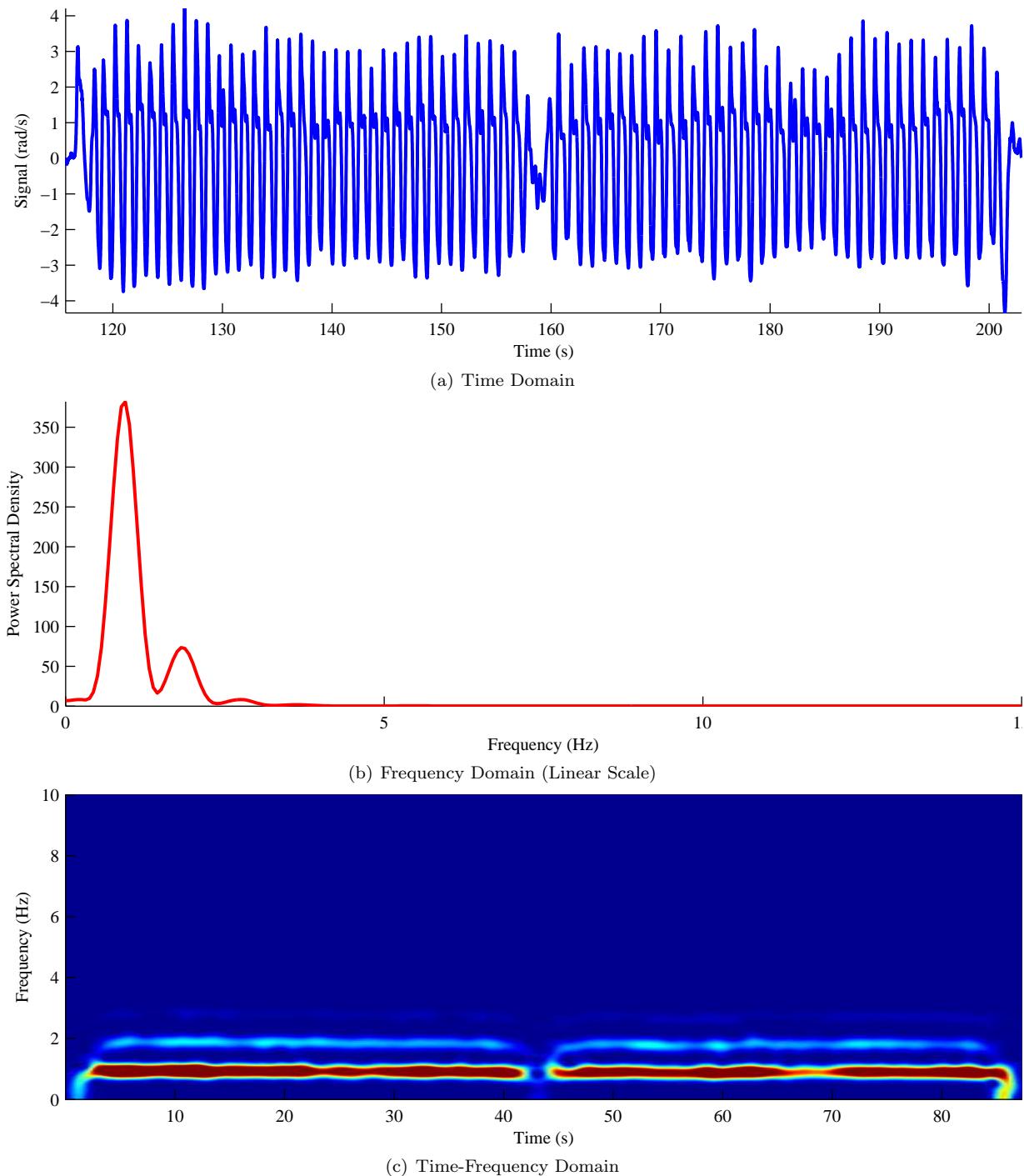


Figure 8: Analysis of the principal component of the gyroscopes signals. The power spectral density was estimated with the Blackman-Tukey method and a 5.0 autocorrelation window duration.