



# Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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## Test Report

Prepared for: Life Sensing Instruments, Inc.

Model: K-1003

Description: Digital Bedside Wireless Interface

Serial Number: BWI007H613.00, BWI008H609.50

FCC ID: OF8-BWI

To

FCC Part 1.1310

Date of Issue: October 12, 2017

On the behalf of the applicant:

Life Sensing Instruments, Inc.  
329 W. Lincon St  
Tullahoma, TN 37388

Attention of:

Gene Money, R&D Manager  
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Project No: p1780013

Poona Saber  
Project Test Engineer

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### Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	September 12, 2017	Poona Saber	Original Document
2.0	October 12, 2017	Poona Saber	Revised the antenna gain and calculations

## ILAC / A2LA

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009)

The tests results contained within this test report all fall within our scope of accreditation, unless below

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.

Testing Certificate Number: **2152.01**



**FCC Site Reg. #349717**

**IC Site Reg. #2044A-2**

**Non-accredited tests contained in this report:**

**N/A**

### **EUT Description**

**Model:** K-1003

**Description:** Digital Bedside Wireless Interface

**Firmware:** N/A

**Software:** TCBWI\_PIC32MXXproduction\_201706300.hex

**Serial Number:** BWI007H613.00, BWI008H609.50

### **Additional Information:**

Operating voltage of the device is 3 Vdc which was powered up with external power supply. The modulation is FSK with frequency Range of 609-614 MHz.



**MPE Evaluation**

This is a portable device used in Uncontrolled Exposure environment.

<b>Limits Uncontrolled Exposure 47 CFR 1.1310 Table 1, (B)</b>	0.3-1.234 MHz:	Limit [mW/cm <sup>2</sup> ] = 100
	1.34-30 MHz:	Limit [mW/cm <sup>2</sup> ] = (180/f <sup>2</sup> )
	30-300 MHz:	Limit [mW/cm <sup>2</sup> ] = 0.2
	300-1500 MHz:	Limit [mW/cm <sup>2</sup> ] = f/1500
	1500-100,000 MHz	Limit [mW/cm <sup>2</sup> ] = 1.0

**Test Data**

Test Frequency, MHz	613
Power, Conducted, mW (P)	1.08
Antenna Gain Isotropic	2.5 dBi
Antenna Gain Numeric (G)	1.77
Antenna Type	monopole
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mw/cm <sup>2</sup>

Power Density (S) =0.00038
Limit =(from above table) = 0.409

END OF TEST REPORT