



**LS RESEARCH LLC**

Wireless Product Development



TESTING CERT #1255.01

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## **ADDENDUM**

**EDIT of ENGINEERING TEST REPORT #: 313276**

**LSR JOB #: C-1833**

Compliance Testing of:  
SIQ Wireless Base Unit

Test Date(s):  
February 18, 2014

Prepared For:  
Attn: Rob Nunn  
Select Comfort  
9800 59<sup>th</sup> Ave North  
Minneapolis, MN 55442

**This Test Report is issued under the Authority of:**

Peter Feilen, EMC Engineer

Signature:  Date: 2/18/14

**Test Report Reviewed by:**  
Shane D. Rismeyer, EMC Engineer

Signature:  Date: 2/18/14

**Project Engineer:**  
Peter Feilen, EMC Engineer

Signature:  Date: 2/18/14

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<b>Prepared For: Select Comfort</b>	<b>Model Number: SIQ01VCSEDR</b>	<b>Report #: AD 313276</b>
<b>EUT: SIQ Wireless Base Unit</b>	<b>Serial Number: Conducted Sample: 3-028864</b>	<b>LSR Job #: C-1833</b>

## LS Research, LLC In Review

As an EMC Testing Laboratory, our Accreditation and Assessments are recognized through the following:

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### A2LA – American Association for Laboratory Accreditation

Accreditation based on ISO/IEC 17025: 2005  
with Electrical (EMC) Scope of Accreditation  
A2LA Certificate Number: **1255.01**

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### Federal Communications Commission (FCC) – USA

Listing of 3 Meter Semi-Anechoic Chamber based on Title 47 CFR – Part 2.948  
FCC Registration Number: **90756**

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### Industry Canada

On file, 3 Meter Semi-Anechoic Chamber based on RSS-212 – Issue 1  
File Number: **IC 3088-A**

On file, 3 and 10 Meter OATS based on RSS-212 – Issue 1  
File Number: **IC 3088**

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### U. S. Conformity Assessment Body (CAB) Validation

Validated by the European Commission as a **U. S. Competent Body** operating under the U. S. /EU, Mutual Recognition Agreement (MRA) operating under the European Union Electromagnetic Compatibility –Council Directive 2004/108/EC (*formerly 89/336/EEC, Article 10.2*).  
Date of Validation: **January 16, 2001**

Validated by the European Commission as a **U.S. Notified Body** operating under the U.S./EU, Mutual Recognition Agreement (MRA) operating under the European Union Telecommunication Equipment – Council Directive 99/5/EC, Annex V.  
Date of Validation: **November 20, 2002**  
Notified Body Identification Number: **1243**

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Prepared For: Select Comfort	Model Number: SIQ01VCSEDR	Report #: AD 313276
EUT: SIQ Wireless Base Unit	Serial Number: Conducted Sample: 3-028864	LSR Job #: C-1833

## 1. Product and General Information

<b>Manufacturer:</b>	Select Comfort
<b>Date(s) of Test:</b>	February 18, 2014
<b>Tested By:</b>	Peter Feilen
<b>Voltage:</b>	3.00-4.10 VDC
<b>Operation Mode:</b>	Continuous Transmit Mode
<p style="text-align: center;"><b><u>Environmental Conditions in the Test Lab:</u></b> Temperature: 20-25° C Atmospheric Pressure: 86 kPa - 106 kPa Humidity: 30-60%</p>	

## 2. Addendum Justification

An Addendum to Test Report 313276 was necessary to add omitted data to demonstrate compliance to CFR 47 Part 15 Section 15.31(e). In order to correct the error this addendum has been issued. This is additional data to Test Report 313276.

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### 3. Correction

#### Test Setup

A spectrum analyzer was used to measure the frequency at the appropriate frequency markers. For this test, the EUT was placed in continuous transmit mode. Power to the EUT was supplied by an external bench-type variable power supply. The frequency of operation was monitored using the spectrum analyzer with RBW=VBW=1 kHz settings while the voltage was varied.

Nominal voltage to the module is defined as 3.6VDC. Voltage was varied from 85% to 115% nominal voltage.

#### Test Data

Frequency (Hz) Across Voltage (VDC)					
Channel	Channel Frequency (MHz)	3.00 VDC	3.60 VDC	4.10 VDC	Frequency Drift (Hz)
1	2412	2412000000	2412000000	2412000000	0
6	2437	2437000000	2437000000	2437000000	0
11	2462	2462000000	2462000000	2462000000	0

#### Test Data Summary

Frequency drift was observed to be better than 100 ppm.

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