

Application for FCC Certification  
On behalf of

Bellman & Symfon Europe AB

Product Name: Visit Smart Hub

Model No.: BE1310

FCC ID: WMSBE1310US

(MPE Calculation)

Prepared For : Bellman & Symfon Europe AB  
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Vastra Frolunda, Sweden

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Report No. : ACI-F15213  
Date of Test : Oct. 28, 2015  
Date of Report : Nov. 02, 2015

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## TEST REPORT FOR FCC CERTIFICATE

Applicant : Bellman & Symfon Europe AB

Manufacturer : Bellman & Symfon Europe AB

EUT Description : Visit Smart Hub

(A) Model No. : BE1310

(B) Power Supply : AC 120V/60Hz

(C) Test Voltage : AC 120V/60Hz

Test Procedure Used:

*FCC OET Bulletin 65 August 1997*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC OET Bulletin 65.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report also shows that the EUT (M/N: BE1310), which was tested on Oct. 28, 2015 is technically compliance with the FCC limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.


This report contains data that are not covered by the NVLAP accreditation.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Oct. 28, 2015 Date of Report : Nov. 02, 2015

Producer :   
ALAN HE / Assistant

Review :   
SAMMY CHEN / Manager

 For and on behalf of  
Audix Technology (Shanghai) Co., Ltd.

Signatory :   
Authorized Signature EMC BYRON KWO/Assistant General Manager

# 1 GENERAL INFORMATION

## 1.1 Description of Equipment Under Test

Description : Visit Smart Hub

Model Number : BE1310

Type of EUT  Production  Pre-product  Pro-type

Radio Tech : Bluetooth

Freq. Band : 2402 MHz ~ 2480 MHz  
Total 79 Channels

Tested Freq. : 2402 MHz (Channel 00)  
2441 MHz (Channel 39)  
2480 MHz (Channel 78)

Antenna Gain : 2.0 dBi

Power Supply : Manufacturer : LEADER ELECTRONIC INC.  
M/N : MU03B6050055-A1  
Input : 100~240V~50/60Hz  
Output : 5.0V 0.55A

Applicant : Bellman & Symfon Europe AB  
Sodra Langebergsgatan 30 421 32  
Vastra Frolunda, Sweden

Manufacturer : Same as Applicant

## 1.2 Description of Test Facility

Site Description (Semi-Anechoic Chamber) : Sept. 17, 1998 file on  
Jan. 15, 2015 Renewed  
Federal Communications Commission  
FCC Engineering Laboratory  
7435 Oakland Mills Road  
Columbia, MD 21046, USA

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3 F 34 Bldg 680 Guiping Rd.,  
Caohejing Hi-Tech Park,  
Shanghai 200233, China

FCC registration Number : 91789

Accredited by NVLAP, Lab Code : 200371-0

## 1.3 Measurement Uncertainty

Output Power Expanded Uncertainty :  $U = 1.56$  dB

## 2 SUMMARY OF STANDARDS AND RESULTS

### 2.1 Applicable Standard

FCC OET Bulletin 65:1997

### 2.2 Specification Limits

#### Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/150	30
1500-100,000	--	--	1.0	30

f = frequency in MHz

\*Plane-wave equivalent power density

NOTE: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

The limit value 1.0mW/cm<sup>2</sup> is available for this EUT.

### 2.3 MPE Calculation Method

$$S = PG/(4 \pi R^2)$$

$$R = [PG/(4 \pi S)]^{0.5}$$

where: S = power density (in appropriate units, e.g. mW/ cm<sup>2</sup>)

P = power input to the antenna (in appropriate units, e.g., mW)

(the measured power value see Report: F13102 Section 5.6)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

## 2.4 Calculated Result

### 2.4.1 Radio Frequency Radiation Exposure Evaluation – 1M GFSK

Frequency (MHz)	Output Power to Antenna (mW)	Antenna Gain		Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
		(dBi)	(Numeric)		
2402	0.997	2.0	1.58	0.000314	1.0
2441	1.494	2.0	1.58	0.000470	1.0
2480	1.610	2.0	1.58	0.000506	1.0

Separation distance R= 20cm.

Frequency (MHz)	Output Power to Antenna (mW)	Antenna Gain		Limit (mW/cm <sup>2</sup> )	Distance (cm)
		(dBi)	(Numeric)		
2402	0.997	2.0	1.58	1.0	0.35
2441	1.494	2.0	1.58	1.0	0.43
2480	1.610	2.0	1.58	1.0	0.45

The antenna used for this transmitter must be installed to provide a separation distance of at least 0.45cm from all persons.

### 2.4.2 Radio Frequency Radiation Exposure Evaluation – 3M 8-DPSK

Frequency (MHz)	Output Power to Antenna (mW)	Antenna Gain		Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
		(dBi)	(Numeric)		
2402	0.840	2.0	1.78	0.000818	0.000264
2441	1.292	2.0	1.78	0.000783	0.000406
2480	1.376	2.0	1.78	0.000659	0.000433

Separation distance R= 20cm.

Frequency (MHz)	Output Power to Antenna (mW)	Antenna Gain		Limit (mW/cm <sup>2</sup> )	Distance (cm)
		(dBi)	(Numeric)		
2402	0.840	2.0	1.78	1.0	0.33
2441	1.292	2.0	1.78	1.0	0.40
2480	1.376	2.0	1.78	1.0	0.42

The antenna used for this transmitter must be installed to provide a separation distance of at least 0.42cm from all persons.