

## HEALTH TEST REPORT

For

Shenzhen EBELONG Technology Co., Ltd

Self-powered wireless doorbell

Test Model: EB-Q2

Additional Model No.: Please Refer to Page 5

Prepared for : Shenzhen EBELONG Technology Co., Ltd  
Address : 4th Floor, Building 2, Hengmingzhu Shajing Industrial Park,  
Xiangxing Road, Baoan District, Shenzhen, Guangdong, China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.  
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Date of receipt of test sample : July 21, 2020  
Number of tested samples : 1  
Serial number : Prototype  
Date of Test : July 21, 2020 ~ August 04, 2020  
Date of Report : August 07, 2020



### HEALTH TEST REPORT EN 50663: 2017

Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

**Report Reference No.** ..... : **LCS200717060AEC**

**Date of Issue**..... : August 07, 2020

**Testing Laboratory Name**..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.**

**Address**..... : Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao' an District, Shenzhen, Guangdong, China

**Testing Location/ Procedure**..... : Full application of Harmonised standards ☒  
Partial application of Harmonised standards ☐  
Other standard testing method ☐

**Applicant's Name**..... : **Shenzhen EBELONG Technology Co., Ltd**

**Address**..... : 4th Floor, Building 2, Hengmingzhu Shajing Industrial Park, Xiangxing Road, Baoan District, Shenzhen, Guangdong, China

#### Test Specification

**Standard**..... : EN 50663: 2017

**Test Report Form No.** ..... : LCSEMC-1.0

**TRF Originator**..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

**Master TRF**..... : Dated 2011-03

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**Test Item Description**..... : **Self-powered wireless doorbell**

**Trade Mark**..... : EBELONG

**Model/ Type reference**..... : EB-Q2

**Ratings** ..... : For transmitter: DC 3V(Powered by 1 button cell)  
For receiver: Input: 100-240V~, 50/60Hz, 1W

**Result** ..... : **Positive**

**Compiled by:**

*Jayden Zhuo*

Jayden Zhuo/ Administrators

**Supervised by:**

*Jin Wang*

Jin Wang/ Technique principal

**Approved by:**



Gavin Liang/ Manager

**HEALTH --TEST REPORT****Test Report No. : LCS200717060AEC**August 07, 2020  
Date of issue

Type / Model..... : EB-Q2

EUT..... : Self-powered wireless doorbell

**Applicant..... : Shenzhen EBELONG Technology Co., Ltd**Address..... : 4th Floor, Building 2, Hengmingzhu Shajing Industrial Park,  
Xiangxing Road, Baoan District, Shenzhen, Guangdong, China

Telephone..... : /

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**Manufacturer..... : Shenzhen EBELONG Technology Co., Ltd**Address..... : 4th Floor, Building 2, Hengmingzhu Shajing Industrial Park,  
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Xiangxing Road, Baoan District, Shenzhen, Guangdong, China

Telephone..... : /

Fax..... : /

**Test Result****Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## Revision History

Revision	Issue Date	Revisions	Revised By
000	August 07, 2020	Initial Issue	Gavin Liang

## 1. GENERAL INFORMATION

### 1.1. Product Description for Equipment Under Test (EUT)

EUT	: Self-powered wireless doorbell
Test Model	: EB-Q2
Additional Model No	: EB-QME, EB-Q1, EB-Q3, EB-Q4, EB-Q5, EB-Q6, EB-Q7, EB-Q8, EB-Q9, EB-Q10, EB-Q11, EB-Q12, EB-Q13, EB-Q14, EB-Q15, EB-Q16, EB-Q17, EB-Q18, EB-Q19, EB-Q20, EB-Q21, EB-Q22, EB-Q23, EB-Q24, EB-Q25, EB-Q26, EB-Q27, EB-Q28, EB-Q29, EB-Q30, EQ2154-EU, EQ2100-EU, EQ2152-EU, EQ2159-EU, EQ2154-A-EU, EQ2100-A-EU, EQ2152-A-EU, EQ2159-A-EU, EQ3154-EU, EQ3100-EU, EQ3152-EU, EQ3159-EU, EQ3154-A-EU, EQ3100-A-EU, EQ3152-A-EU, EQ3159-A-EU, QME0254-EU, QME0200-EU, QME0252-EU, QME0259-EU, QME0254-A-EU, QME0200-A-EU, QME0252-A-EU, QME0259-A-EU
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply	: For transmitter: DC 3V(Powered by 1 button cell) For receiver: Input: 100-240V~, 50/60Hz, 1W
Transmitter	:
Frequency Range	: 433.92MHz
Channel Number	: 1
Modulation Type	: ASK
Antenna Description	: Internal Antenna, 2.0dBi
Hardware Version	: V 0.5
Software Version	: V 1.0
Receiver	:
Frequency Range	: 433.92MHz
Channel Number	: 1
Modulation Type	: ASK
Antenna Description	: Internal Antenna, 2.0dBi
Hardware Version	: V 1.2
Software Version	: V 1.0

## 1.2. Objective

According to its specifications, the EUT must comply with the requirements of the following standards:  
EN 50663: 2017 –Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

## 1.3. Test Methodology

All measurements contained in this report were conducted with EN 50663: 2017.

## 1.4. Facilities

All measurement facilities used to collect the measurement data are located at Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao' an District, Shenzhen, Guangdong, China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

## 1.5. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
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## 1.6. External I/O Cable

I/O Port Description		Quantity		Cab
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## 1.7. Equipment

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

## 1.8. Laboratory Accreditations And Listings

### Site Description

EMC Lab. : NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Name of Firm : Shenzhen LCS Compliance Testing Laboratory Ltd.

Site Location : Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao' an District, Shenzhen, Guangdong, China

## 1.9. Measurement Uncertainty

Test Item		Uncertainty
Radio Frequency	:	$0.9 \times 10^{-4}$
Total RF Power, Conducted	:	1.0 dB
RF Power Density, Conducted	:	1.8 dB
Spurious Emissions, Conducted	:	1.8 dB
All Emissions, Radiated	:	3.1 dB
Temperature	:	0.5°C
Humidity	:	1 %
DC And Low Frequency Voltages	:	1 %

## 2. HUMAN EXPOSURE TO THE ELECTROMAGNETIC FIELDS

### 2.1 Test Methodology

#### 2.1.1.General description of applied standards

According to its specifications, the EUT must comply with the requirements of the following standards:  
EN 50663- Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz).

#### 2.1.2.Description of test modes

The EUT has been tested under its typical operating condition. Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

### 2.2 Test limit

If the average power emitted by apparatus operating in the frequency range 10 MHz – 300GHz is less than or equal to 20 mW and the transmitting peak power is less than 20 W then the apparatus is deemed to comply with the basic restrictions without testing.

### 2.3 Test Results

Since Max. output power for SRD is 8.45mW (9.27dBm) , According to radio test report LCS200717060AEB) less than 20mW specified in EN 50663. This unit will not generate the harmful EM emission above the reference level as specified in EC Council Recommendation (1999/519/EC).

The unit complies with the EN 50663 for RF exposure requirement.

No non-compliance noted.

-----THE END OF TEST REPORT-----