TEST REPORT

Reference No. : WTS20S03009944W002 V1

FCC ID : 2AL7Q-ERC111

Applicant: ShenZhen EBELONG Technology Co.,Ltd

Address ShenZhen Wisdom Innovation Center Suite A.607, QianJin 2nd

Road, Baoan District, ShenZhen, China

Manufacturer: The same as above

Address : The same as above

Product..... : Dimmable WiFi Controller

Model(s). : ERC111

Brand Name: EBELONG

Standards..... : FCC Part 2.1091

Date of Receipt sample : 2020-03-13

Date of Test : 2020-03-14 to 2020-06-21

Date of Issue : 2020-11-17

Test Result.....: Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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ong / Manager

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3 Revision History

| Test report No. | Date of Receipt sample | Date of Test | Date of Issue | Purpose | Comment | Approved |
|---------------------------|------------------------------|--------------------------------|------------------|-----------|---------|----------|
| WTS20S03009 944W002 | 2020-03-13 | 2020-03-14 to 2020-06-21 | 2020-06-22 | original | - | Replaced |
| WTS20S03009 944W002 V1 | 2020-03-13 | 2020-03-14 to 2020-06-21 | 2020-11-17 | Version 1 | Updated | Valid |

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4 General Information

4.1 General Description of E.U.T.

Product: Dimmable WiFi Controller

Model(s): ERC111

Model Description: N/A

Wi-Fi Specification: 2.4G-802.11b/g/n HT20

Hardware Version: V1.5

Software Version: V1.0

4.2 Details of E.U.T.

Ratings: Input: 110V~50/60Hz , 250W

4.3 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Services(Shenzhen) Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

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5 Test Summary

| Test Items | Test Requirement | Result |
|--|------------------|--------|
| Maximum Permissible Exposure (Exposure of Humans to RF Fields) | 2.1091 | PASS |

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6 RF Exposure

Test Requirement: FCC Part 2.1091

Test Mode: The EUT work in test mode(Tx).

6.1 Procedures and Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

FCC Part 1.1307:

(A) Limits for Occupational / Controlled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm ²) | Averaging Time E ² , H ² or S (minutes) |
|--------------------------|--------------------------------------|---|---|--|
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 |
| 3.0-30 | 1842 / f | 4.89 / f | (900 / f)* | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | | | F/300 | 6 |
| 1500-100,000 | | | 5 | 6 |

(B) 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/ cm²) | Averaging Time E ², H ² or S (minutes) |
|--------------------------|--------------------------------------|---|--------------------------------|---|
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34-30 | 824/f | 2.19/f | (180/f)* | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | | | F/1500 | 30 |
| 1500-100,000 | | | 1.0 | 30 |

Note: f = frequency in MHz;

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

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

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

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

From the peak EUT RF output power, the minimum mobile separation distance, d=20cm, as well as the gain of the used antenna, the RF power density can be obtained

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^{*}Plane-wave equivalent power density

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6.2 Test Result

FCC Part 2.1091:

A distance of 0.2m normally can be maintained between the user and the device.

| Mode | Antenna Gain (dBi) | Antenna Gain (numeric) | Max.Peak Output Power (dBm) | Peak Output Power (mW) | ^ * | Limit of Power Density (mW/cm²) |
|-----------|-----------------------|---------------------------|--------------------------------|---------------------------|----------|------------------------------------|
| 2.4G WIFI | 2.00 | 1.585 | 21.52 | 141.91 | 0.044742 | 1 |

====End of Report=====