

Measurement and Test Report

For

CE LINK LIMITED

Building M, LiCheng Technology Industrial Zone, GongHe Village, ShaJing

Town, ShenZhen City, China

FCC ID: A4X-WPC10-1MCNA

FCC Rule(s): KDB 680106 D01 V03

Product Description: Wireless Charger

Tested Model: WPC10-1MCNA

Report No.: WTX19X09063270W-2

Tested Date: 2019-09-10

Issued Date: 2019-09-10 to 2019-09-23

Tested By: 2019-09-24

Reviewed By: Silin Chen / EMC Manager

Approved & Authorized By: Jandy So / PSQ Manager

Prepared By:

Mike Shi
Silin Chen
Jandy So

Shenzhen SEM Test Technology Co., Ltd.

1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road,
Bao'an District, Shenzhen, P.R.C. (518101)

Tel.: +86-755-33663308 Fax.: +86-755-33663309 Website: www.semtest.com.cn

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM Test Technology Co., Ltd.

TABLE OF CONTENTS

| | |
|---|----------|
| 1. GENERAL INFORMATION..... | 4 |
| 1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)..... | 4 |
| 2. RF EXPOSURE TEST REPORT | 5 |
| 2.1 STANDARD APPLICABLE..... | 5 |
| 2.2 TEST CONDITIONS | 5 |
| 2.3 TEST PROCEDURE..... | 6 |
| 2.4 TEST RESULT..... | 6 |
| 2.4 TEST PHOTOS | 8 |

Report version

| Version No. | Date of issue | Description |
|-------------|---------------|-------------|
| Rev.00 | 2019-09-24 | Original |
| / | / | / |

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: CE LINK LIMITED
Address of applicant: Building M, LiCheng Technology Industrial Zone,
GongHe Village, ShaJing Town, ShenZhen City,
China

Manufacturer: CE LINK LIMITED
Address of manufacturer: Building M, LiCheng Technology Industrial Zone,
GongHe Village, ShaJing Town, ShenZhen City,
China

| General Description of EUT | |
|---|------------------|
| Product Name: | Wireless Charger |
| Trade Name: | CE-LINK |
| Model No.: | WPC10-1MCNA |
| Adding Model(s): | / |
| Note: The test data is gathered from a production sample, provided by the manufacturer. | |

| Technical Characteristics of EUT | |
|----------------------------------|------------------------------|
| Frequency Range: | 110~205kHz |
| Modulation Type: | ASK |
| Antenna Type: | Coil Antenna |
| Rated Voltage: | DC5V/DC 9V (Wireless output) |
| Rated Current: | ≤1.1A (Wireless output) |
| Rated Power: | < 10W (Wireless output) |

2. RF Exposure Test Report

2.1 Standard Applicable

According to § 1.1310 system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

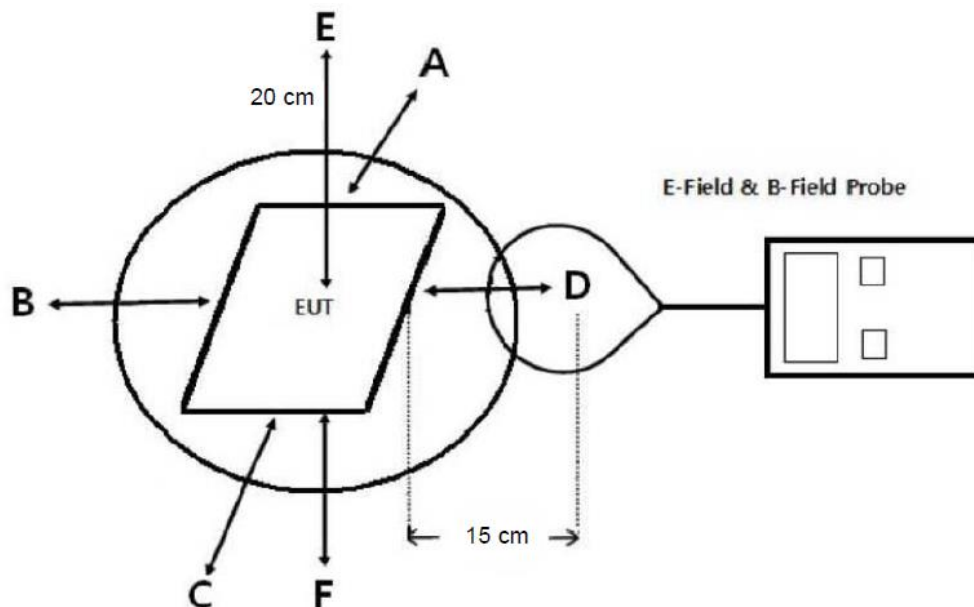
| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled Exposure | | | | |
| 0.3-3.0 | 614 | 1.63 | *100 | 6 |
| 3.0-30 | 1842/f | 4.89/f | *900/f ² | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1,500 | | | f/300 | 6 |
| 1,500-100,000 | | | 5 | 6 |
| (B) Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *100 | 30 |
| 1.34-30 | 824/f | 2.19/f | *180/f ² | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1,500 | | | f/1500 | 30 |
| 1,500-100,000 | | | 1.0 | 30 |

f = frequency in MHz * = Plane-wave equivalent power density

2.2 Test Conditions

| Test Mode | Description | Remark | Power Supply Mode |
|-----------------------|-----------------|----------|---|
| TM1 | Wireless Output | Transmit | Input: DC5V/9V(with a adapter input AC 120V/60Hz) |
| | | | |
| Measurement Distance: | 15 cm | | |

2.3 Test Procedure



- The measurement probe was placed at test distance(15 cm for A,B,C,D,F and 20 cm for E) which is between the edge of the charger and the geometric center of probe.
- The highest emission level was recorded at the measurement points(A, B, C, D, E, F).
- The EUT was measured according to the distance of KDB 680106 D01 V03.

2.4 Test Result

The EUT dose comply with item 5.2 of KDB 680106 D01V03

- Power transfer frequency is less than 1 MHz
Yes, the device operate in the frequency range from 110kHz to 205kHz.
- Output power from each primary coil is less than 15 watts
Yes, the maximum output power of the primary coil is less than 15W.
- The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
Yes, the client device includes only single primary coils.
- Client device is inserted in or placed directly in contact with the transmitter
Yes, Client device is placed directly in contact with the transmitter.
- Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
Yes, It is mobile exposure conditions only.

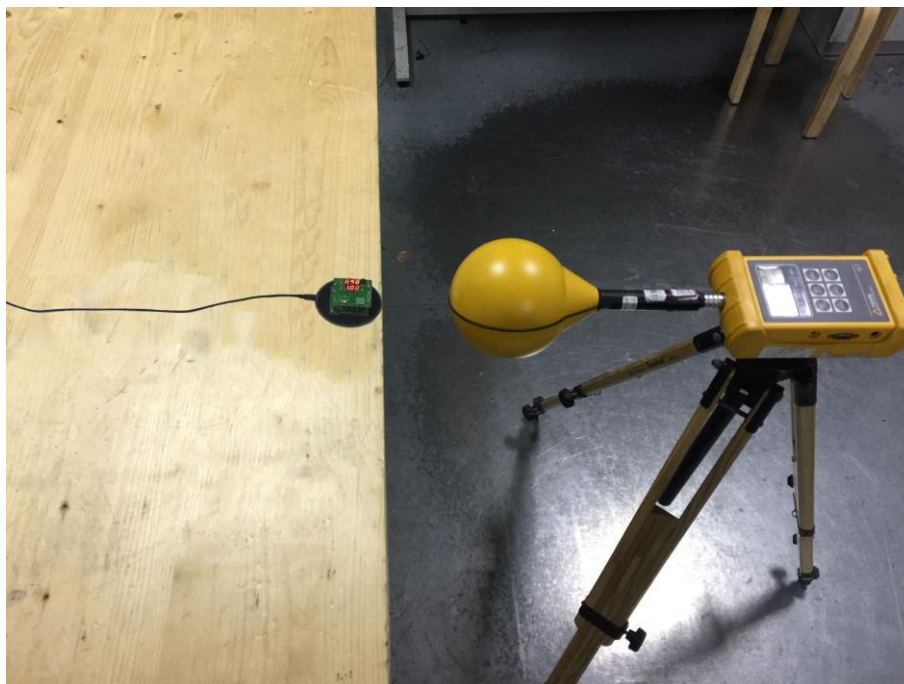
6. The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Yes, The EUT field strength levels are less than 50% of the MPE limit, refer to test TM1, TM2 list, and the coils can't transmitted simultaneous.

Test Mode: TM1

| Electric Field Emissions | | | |
|--------------------------|---------------------|------------|-----------------|
| Test Position | Measure Value (V/m) | Limit(V/m) | 50% Limit (V/m) |
| Top | 3.94 | 614 | 307 |
| Bottom | 4.84 | 614 | 307 |
| Side 1 | 6.53 | 614 | 307 |
| Side 2 | 7.55 | 614 | 307 |
| Side 3 | 5.44 | 614 | 307 |
| Side 4 | 6.50 | 614 | 307 |
| Magnetic Field Emissions | | | |
| Test Position | Measure Value (A/m) | Limit(A/m) | 50% Limit (A/m) |
| Top | 0.28 | 1.63 | 0.815 |
| Bottom | 0.26 | 1.63 | 0.815 |
| Side 1 | 0.48 | 1.63 | 0.815 |
| Side 2 | 0.36 | 1.63 | 0.815 |
| Side 3 | 0.10 | 1.63 | 0.815 |
| Side 4 | 0.58 | 1.63 | 0.815 |

2.4 Test Photos



***** END OF REPORT *****