Measurement and Test Report

For

CE LINK LIMITED

Building M,LiCheng Technology Industrial Zone,GongHe Village,ShaJing Town,ShenZhen City,China

FCC ID: A4X-WPC20-1XINB

FCC Rule(s):	KDB 680106 D01 V03
Product Description:	Wireless charger
Tested Model:	WPC20-1XINB
Report No.:	WTX20X05032393W-2
Sample Receipt Date:	May.29, 2020
Tested Date:	May.29, 2020 to Jun.15, 2020
Issued Date:	Jun.15, 2020
Tested By:	Jason Su / Engineer
Reviewed By:	Lion Cai / RF Manager
Approved & Authorized By:	Silin Chen / Manager

Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.
1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,
Block 70 Bao'an District, Shenzhen, Guangdong, China
Tel.: +86-755-33663308 Fax.: +86-755-33663309 Website: www.semtest.com.cn

TABLE OF CONTENTS

1. GENERAL INFORMATION 4

1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) 4
1.2 TEST EQUIPMENT LIST AND DETAILS 5

2. RF EXPOSURE TEST REPORT 6

2.1 STANDARD APPLICABLE 6
2.2 TEST CONDITIONS 6
2.3 TEST PROCEDURE 7
2.4 TEST RESULT 7
2.5 TEST SETUP PHOTOGRAPH 10

Report version

Version No.	Date of issue	Description
Rev.00	Jun.15, 2020	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
Factory:	SuiChuan CE LINK LIMITED
Address of factory	SuiChuan county industrial park east zone, Ji'an city, Jiangxi province, China.

General Description of EUT	
Product Name:	Wireless charger
Trade Name:	CE-LINK
Model No.:	WPC20-1XINB
Adding Model(s):	/
Adapter	A481-1204000U Input: AC100-240V~50/60Hz, 1.5A; Output: DC12V, 4000mA
Note: The test data is gathered from a production sample, provided by the manufacturer.	

Technical Characteristics of EUT	
Frequency Range:	110~205kHz
Antenna Type:	Coil Antenna
Rated Voltage/ Current Output:	USBA/Type-C Output: 5.0V 3A or 9.0V 2A or 12V 1.5A USBA + Type-C Output: 15W total
Wireless Rated Power:	Wireless Output1: 5.0V 1A or 9.0V 1.1A 5W or 10W Wireless Output2: 5.0V 1A or 9.0V 1.1A 5W or 10W

1.2 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1240	MPE Measuring Instrument	Narda	ELT-400	M-0155/M-0170	2019-07-15	2020-07-14

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)

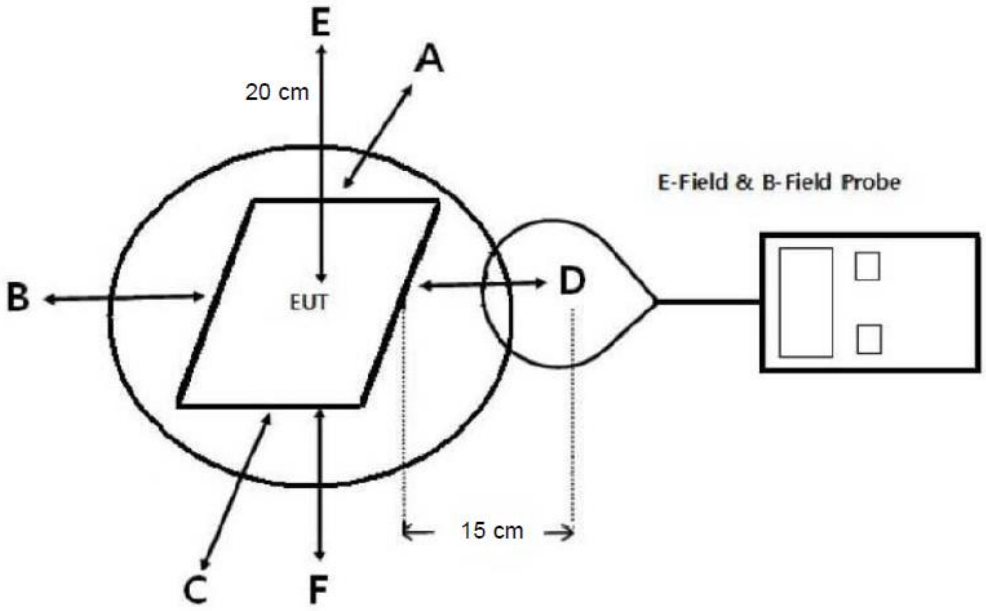
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	$*900/f^2$	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			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 charging	/	Input DC12V/4A; Output 1:DC5V/1A And Output 2:DC5V1A
TM2	Wireless charging	/	Input DC12V/4A; Output 1:DC9V/1.1A And Output 2:DC9V1.1A
Measurement Distance:	15 cm		

2.3 Test Procedure



a. 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.
b. The highest emission level was recorded at the measurement points(A, B, C, D, E, F).
c. 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

1. Power transfer frequency is less that 1 MHz
   Yes, the device operate in the frequency range from 110kHz to 205kHz.

2. Output power from each primary coil is less than or equal 15 watts
   Yes, the maximum output power of each primary coil is less than 15W.

3. 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.

4. Client device is inserted in or placed directly in contact with the transmitter
   Yes, Client device is placed directly in contact with the transmitter.

5. 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.

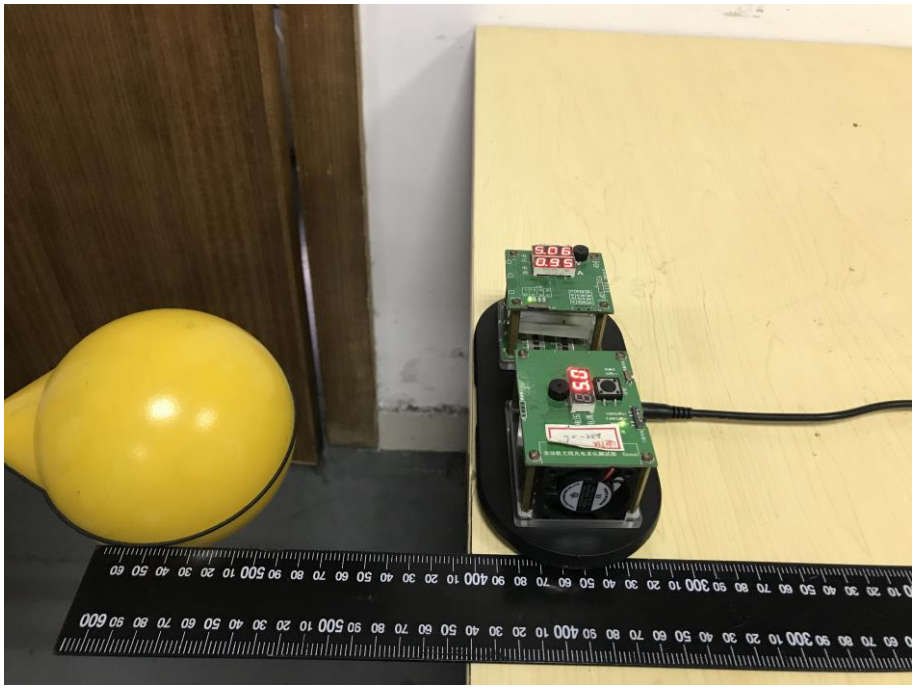
Test Mode: TM1

Electric Field Emissions			
Test Position	**Measure Value (V/m)**	**Limit(V/m)**	**50% Limit (V/m)**
Top	32	614	307
Bottom	38	614	307
Side 1	34	614	307
Side 2	35	614	307
Side 3	34	614	307
Side 4	39	614	307
Magnetic Field Emissions			
Test Position	**Measure Value (A/m)**	**Limit(A/m)**	**50% Limit (A/m)**
Top	0.051	1.63	0.815
Bottom	0.049	1.63	0.815
Side 1	0.048	1.63	0.815
Side 2	0.047	1.63	0.815
Side 3	0.046	1.63	0.815
Side 4	0.043	1.63	0.815

Test Mode: TM2

Electric Field Emissions			
Test Position	**Measure Value (V/m)**	**Limit(V/m)**	**50% Limit (V/m)**
Top	46	614	307
Bottom	47	614	307
Side 1	43	614	307
Side 2	45	614	307
Side 3	43	614	307
Side 4	49	614	307
Magnetic Field Emissions			
Test Position	**Measure Value (A/m)**	**Limit(A/m)**	**50% Limit (A/m)**
Top	0.068	1.63	0.815
Bottom	0.067	1.63	0.815
Side 1	0.065	1.63	0.815
Side 2	0.065	1.63	0.815
Side 3	0.063	1.63	0.815
Side 4	0.061	1.63	0.815

2.5 TEST SETUP PHOTOGRAPH



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