

TEST REPORT

Reference No...... : WTX22X06114473W002
FCC ID : A4X-WPC20-3XJNA
Applicant : CE LINK LIMITED
Address : 22 Dongkang Road, Dalingshan Town, Dongguan City, Guangdong
Province, China.
Manufacturer : Dongguan CE LINK LIMITED
Address : 22 Dongkang Road, Dalingshan Town, Dongguan City, Guangdong
Province, China.
Product Name : 3-in-1 Wireless Charger
Model No...... : WPC20-3XJNA
Standards : KDB 680106 D01 V03
Date of Receipt sample : 2022-06-08
Date of Test..... : 2022-06-08 to 2022-07-07
Date of Issue : 2022-07-07
Test Report Form No. : WTX_KDB 680106 D01 V03W
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 approver.

Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 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 Email: sem@waltek.com.cn

Tested by:

Jack Huang

Jack Huang

Approved by:

Silin Chen

Silin Chen

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Report version

Version No.	Date of issue	Description
Rev.00	2022-07-07	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Factory 1#: SuiChuan CE LINK LIMITED
 Address of factory: SuiChuan county industrial park east zone, Ji'an city, Jiangxi Province, China.

Factory 2#: CE LINK VIET NAM COMPANY LIMITED.
 Address of factory: Lot CNSG04&CNSG06 Van Trung Industrial Zone, Viet Yen district, Bac Giang Province, Vietnam

General Description of EUT	
Product Name:	3-in-1 Wireless Charger
Trade Name:	CE-LINK
Model No.:	WPC20-3XJNA
Adding Model(s):	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	110~205KHz; 320-330KHz
Modulation Type:	ASK/FSK
Antenna Type:	Coil Antenna
Antenna Gain:	0dBi
Rated Voltage:	Input: 12V
Rated Current:	Input: 2.5A
Rated Power:	Output1: 10W Output2: 5W Output3: 2.5W

1.2 Auxiliary Equipment List and Details

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
Adapter	KOSP	CE200A0120V	/
Smart phone	Apple	IPhone 12 Pro Max	/
Air pods	Apple	A2190	/
Apple Watch	Apple	MKJP3CH/A	/

Special Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
DC Cable	1.25	Unshielded	Without Ferrite

1.3 Test Equipment List and Details

Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
ELECTRIC AND MAGNETIC FIELD ANALYZER	Narda	EHP-200AC	180ZX10226	2021-05-20	2024-05-19

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)

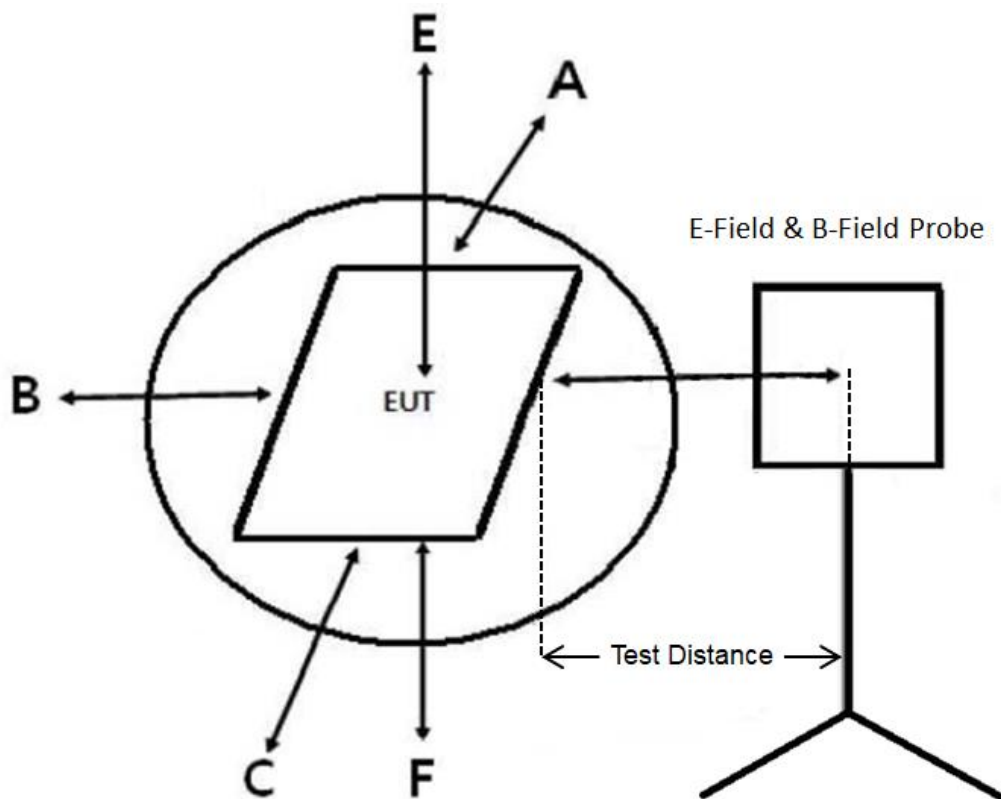
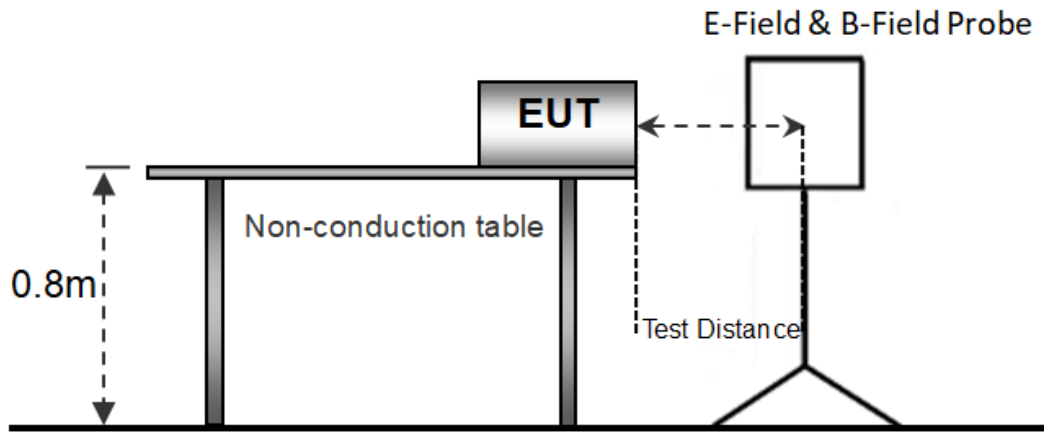
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	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
TM1	Wireless Charging	Output 5W (Phone)
TM2	Wireless Charging	Output 10W (Phone)
TM3	Wireless Charging	Output 5W (Earbuds)
TM4	Wireless Charging	Output 2.5W (Watch)
TM5	Wireless Charging	Output 10W (Phone) + Output 5W (Earbuds) + Output 2.5W (Watch)
Measurement Distance:		
15 cm and 20 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 complies with item 5.2 of KDB 680106 D01V03

1. Power transfer frequency is less than 1 MHz
Yes, the device operates in the frequency range from 110kHz to 205kHz and 320kHz to 330kHz.
2. Output power from each primary coil is less than or equal to 15 watts
Yes, the maximum output power of the primary coil is equal to 10W.
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, TM3, TM4, TM5 list.

Test Mode: TM1

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Point E	0.5988	614	307
Point F	0.2437	614	307
Point A	0.1540	614	307
Point B	0.1583	614	307
Point C	0.2989	614	307
Point D	0.3591	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Point E	0.2509	1.63	0.815
Point F	0.1604	1.63	0.815
Point A	0.1508	1.63	0.815
Point B	0.1043	1.63	0.815
Point C	0.0907	1.63	0.815
Point D	0.1219	1.63	0.815

Test Mode: TM2

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Point E	0.8818	614	307
Point F	0.3713	614	307
Point A	0.4709	614	307
Point B	0.1939	614	307
Point C	0.2083	614	307
Point D	0.3787	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Point E	0.3855	1.63	0.815
Point F	0.1188	1.63	0.815
Point A	0.0938	1.63	0.815
Point B	0.0893	1.63	0.815
Point C	0.1831	1.63	0.815
Point D	0.2026	1.63	0.815

Test Mode: TM3

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Point E	0.2576	614	307
Point F	0.1674	614	307
Point A	0.1420	614	307
Point B	0.2241	614	307
Point C	0.2248	614	307
Point D	0.2031	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Point E	0.2156	1.63	0.815
Point F	0.1382	1.63	0.815
Point A	0.1284	1.63	0.815
Point B	0.1063	1.63	0.815
Point C	0.1421	1.63	0.815
Point D	0.1436	1.63	0.815

Test Mode: TM4

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Point E	0.3482	614	307
Point F	0.2031	614	307
Point A	0.2368	614	307
Point B	0.1212	614	307
Point C	0.1364	614	307
Point D	0.1774	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Point E	0.1877	1.63	0.815
Point F	0.1339	1.63	0.815
Point A	0.1198	1.63	0.815
Point B	0.1043	1.63	0.815
Point C	0.0941	1.63	0.815
Point D	0.0840	1.63	0.815

Test Mode: TM5

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Point E	0.5998	614	307
Point F	0.1696	614	307
Point A	0.1561	614	307
Point B	0.2864	614	307
Point C	0.2920	614	307
Point D	0.2482	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Point E	0.3036	1.63	0.815
Point F	0.1715	1.63	0.815
Point A	0.1827	1.63	0.815
Point B	0.1097	1.63	0.815
Point C	0.1230	1.63	0.815
Point D	0.1506	1.63	0.815

Note: 1. The EUT was tested at 3 (X, Y, Z) orthogonal positions, and the worst-case position data was reported. Worst data for Electric Field Emissions (X), worst data for Magnetic Field Emissions (Z)

2.5 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Electric Field Emissions	Radiated	± 1.56 (V/m)
Magnetic Field Emissions	Radiated	± 0.08 (A/m)

2.6 Test Photos



APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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