

IKEA OF SWEDEN AB

TEST REPORT

SCOPE OF WORK

EMC TESTING-E2311-C

REPORT NUMBER

231122098GZU-002

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TEST REPORT

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Intertek Report No: 231122098GZU-001
FCC ID: FHO-E2311-C

Test standards

47 CFR PART 1, Subpart I, Section 1.1310
KDB 680106 D01 Wireless Power Transfer v04

Sample Description

Product : Wireless Charger
Model No. : E2311-C
Electrical Rating : Input: 5Vdc, 2A
Output: 5W Max
Serial No. : Not Labeled
Date Received : 22 November 2023
Date Test : 06 January 2024-16 January 2024
Conducted

Prepared and Checked By



Ace Yao
Engineer

Approved By:



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1.0 TEST RESULT SUMMARY

Classification of EUT: Class B

Test Item	Standard	Result
EMF	47 CFR PART 1, Subpart I, Section 1.1310	PASS

Remark:

When determining the test results, measurement uncertainty of tests has been considered.

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2.0 General Description

2.1 Product Description

Operating Frequency	114-146KHz
Type of Modulation:	Load modulation
Antenna Type	Inductive loop coil antenna
Power Supply:	Input: 5Vdc, 2A Output: 5W Max
Power cord:	--

2.2 Test Facility

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

2.3 EUT Exercising Software

N/A

2.4 Special Accessories

N/A

2.5 Equipment Modification

Any modifications installed previous to testing by IKEA OF SWEDEN AB will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

2.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:
Support Equipment:

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Equipment	Model No.	Rating	Supplier
Mobile phone	IPhone 8	--	Intertek
Power adapter	MDY-11-EX	Output: 33W.max	Intertek

Remark: WPT client was one of typical client devices, it's selected such that the EUT was fully exercised at maximum power from its transmitter. It will not be sold together.

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above evaluated respectively

Pretest mode	Description	
Standby Mode	kept transmitting continuously	
Charging Mode	CH: Low	WPT client is charging at 1% battery power, 50% and 99% battery power respectively, keep transmitting continuously
	CH: Middle	
	CH: High	

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3.0 EMF TEST

3.1 Standard Requirement

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 level 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 0.1m normally can be maintained between the user and the device.

(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 Times 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
1500-100000	--	--	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/cm ²)	Averaging Times 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
1500-100000	--	--	1.0	30

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

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3.2 Test Data

Input Voltage: 120V/60Hz
Ambient Condition: 24°C, 50%RH

Test distance: 20 cm surrounding the device.

H-Filed Strength:

Test Position	Probe Measure Result (A/m)			50% Limit (A/m)	Limit (A/m)
	WPT client in 1% battery power	WPT client in 50% battery power	WPT client in 99% battery power		
Side 1	0.050	0.041	0.039	0.815	1.63
Side 2	0.061	0.055	0.048	0.815	1.63
Side 3	0.058	0.052	0.045	0.815	1.63
Side 4	0.066	0.061	0.057	0.815	1.63
Top	0.073	0.062	0.060	0.815	1.63

4.0 Test Equipment List

Equip. No.	Equipment	Model	Manufacturer	Cal. date	Due date
EM007-03	Exposure Level Tester	ELT-400	NARDA	2023/3/08	2024/3/07

*****End of the test report*****