

RF Exposure Evaluation

Client Information:

Applicant: Shenzhen Xiangdangwen Technology Co.,Ltd.

Applicant add.: 106, 1/F, No.313-4 Building, Huachang Road, Langkou Community, Dalang Str

Report No.: AIT24050601W3

eet, Longhua District, Shenzhen, China

Manufacturer: Huizhou Yimai Electronics Technology Co., Ltd.

Manufacturer add.: 3rd Floor, Building B, Huakai High-tech Industrial Park, Electronic City Road, L

ongxi Street, Boluo Country

Product Information:

Product Name: WIRELESS CHARCER

Model No.: 2E7124

Brand Name: LISEN, AINOPE, VEICO

Test samples.: AIT24050601001

FCC ID: 2AW73-2E7124

Applicable standards: FCC CFR 47 PART 1, § 1.1310

KDB 680106 D01 Wireless Power Transfer v04

Prepared By:

Dongguan Yaxu (AiT) Technology Limited

No.22, Jinqianling 3rd Street, Jitigang, Huangjiang, Dongguan, Guangdong, China

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Date of Receipt: May 08, 2024 Date of Test: May 08, 2024~ May 22, 2024

Date of Issue: May 22, 2024 Test Result: Pass

This device described above has been tested by Dongguan Yaxu (AiT) Technology Limited and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Rviewed by: Emiya Lin Approved by: Gimba Huang Simaba Huang



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Revision History

Revision	Issue Date	Revisions	Revised By
00	May. 22, 2024	Initial Issue	Simaba Huang



2 TEST FACILITY

The test facility is recognized, certified or accredited by the following organizations:

.CNAS- Registration No: L6177

Dongguan Yaxu (AiT) technology Limited is accredited to ISO/IEC 17025:2017 general Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the competence of testing and calibration laboratories) on April 18, 2022

Report No.: AIT24050601W3

FCC-Registration No.: 703111 Designation Number: CN1313

Dongguan Yaxu (AiT) technology Limited 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.

IC —Registration No.: 6819A CAB identifier: CN0122

The 3m Semi-anechoic chamber of Dongguan Yaxu (AiT) technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 6819A

A2LA-Lab Cert. No.: 6317.01

Dongguan Yaxu (AiT) technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

2.1 Deviation from standard

None

2.2 Abnormalities from standard conditions

None

2.3 Test Location

Dongguan Yaxu (AiT) Technology Limited

Address: No.22, Jingianling 3rd Street, Jitigang, Huangjiang, Dongguan, Guangdong, China

Tel.: +86-769-8202 0499 Fax.: +86-769-8202 0495



3 GENERAL INFORMATION

EUT Name:	WIRELESS CHARCER
Model No:	2E7124
Serial Model:	N/A
Brand Name:	LISEN , AINOPE , VEICO
Test sample(s) ID:	AIT24050601001
Sample(s) Status:	Engineer sample
Operation frequency:	113kHz-205kHz
Modulation Technology:	MSK
Antenna Type:	Loop coil Antenna
Antenna gain:	0dBi
Hardware version.:	N/A
Software version.:	N/A
Power supply:	Input: 5V = 3A, 9V = 3A, 12V = 3A Wireless Output: 5W/7.5W/10W/15W
Model different:	N/A
Note:	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



TEST METHODOLOGY

4.1 Measuring Standard

According to §1.1307(b)(1), 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 of the Commission's guidelines. According to §1.1310 and §2.1091 RF exposure is calculated. According KDB680106 D01: KDB 680106 D01 Wireless Power Transfer v04.

4.2 Requirements

According to the item 3 of KDB 680106 D01v04:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

- (1) Mobile Device and Portable Device Configurations
- (2) Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz
- (3) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the top surface.

4.3 Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

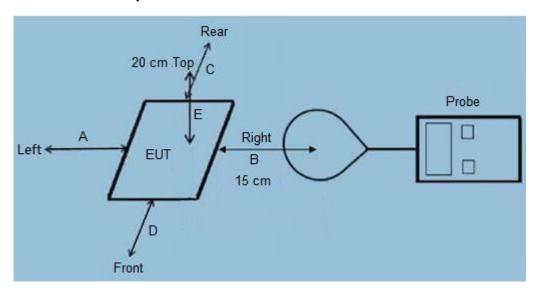
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)			
(A) Limits for Occupational/Controlled Exposures							
0.3-3.0	614	1.63	*(100)	6			
3.0-30	1842/f	4.89/f	*(900/f ²)	6			
30-300	61.4	0.163	1.0	6			
300-1500	/	1	f/300	6			
1500-100,000	/	Ī	5	6			
	(B) Limits for Genera	l Population/Uncontrolle	d 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			
300-1500	/	1	f/1500	30			
1500-100,000	/	/	1.0	30			

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

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).



4.4 Test Setup



4.5 Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (15 cm from all sides and 20 cm from the top) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E,F) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04. Remark: The EUT's test position A, B, C, D,E and F is valid for the E and H field measurements.



5 Equipment Approval Considerations

The EUT does comply with KDB 680106 D01 as follow table.

Requirements of section 5 of KDB 680106 D01	Yes / No	Description
Mobile Device and Portable Device Configurations	Yes	Mobile Device
Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz	Yes	The device operate in the frequency range113-205KHz(for mobile phone)
RF Exposure compliance may be ensured only for a minimum separation distance that is greater than 20 cm, while use conditions at smaller distances can still be considered unlikely.	Yes	The EUT H-field strengths at 15 cm surrounding the device and 20 cm above the top surface.



5.1 Description of the test mode

Equipment under test was operated during the measurement under the following conditions:

Test Mode	Description				
Mode 1	AC Adapter + EUT + Phone	Record			
Mode 2	Test the EUT in idle mode.	Pre-tested			
Note: 1. All test modes were pre-tested, but we only recorded the worst case in this report.					

5.2 Peripheral List

No.	Equipment	Manufacturer	Model No.	Serial No.	Power cord	signal cable
1	Phone	Apple	S6	N/A	N/A	N/A

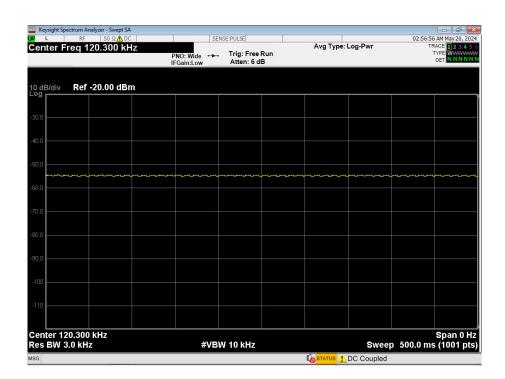
5.3 Test Instruments list

Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
Magnetic Amplitude		MAGPy-8H3D+E3	0407.0		
and Gradient Probe	SPEAG	D V2	3107 & 3097	03.15.2024	03.14.2025
System		& MAGPy-DAS V2	3097		



5.4 Duty Cycle

Mode	ON Time(ms)	Period(ms)	Duty Cycle(%)
Operating(113kHz-205kHz)	1	1	100





5.5 Test Result

Test Mode 1 MPE Coil 1 Phone

rest Mode I_MFL_Coll I_FITOTIE							
	MPE						
Test	Pottomy lovele	Probe from EUT Side	E-field	H-field			
distance	Battery levels	Probe Ironi Eu i Side	(V/m)	(A/m)			
20cm	< 1%	Тор	13.28	0.40			
15cm	< 1%	Тор	13.40	0.45			
15cm	< 1%	Left	13.57	0.46			
15cm	< 1%	Right	13.52	0.38			
15cm	< 1%	Front	13.25	0.29			
15cm	< 1%	Rear	13.27	0.35			
	Limit 614 1.63						
	Margin Limit (%)						

MPE							
Test	Battery levels	Probe from EUT Side	E-field	H-field			
distance	Dattery levele	Tropo nom Zor olas	(V/m)	(A/m)			
20cm	< 50%	Тор	12.92	0.29			
15cm	< 50%	Тор	12.14	0.35			
15cm	< 50%	Left	12.49	0.29			
15cm	< 50%	Right	12.63	0.35			
15cm	< 50%	Front	12.13	0.41			
15cm	< 50%	Rear	12.39	0.33			
	614	1.63					
	Margin Limit (%)						

	MPE							
Test	Battery levels	Probe from EUT Side	E-field	H-field				
distance			(V/m)	(A/m)				
20cm	< 99%	Тор	12.30	0.28				
15cm	< 99%	Тор	11.16	0.20				
15cm	< 99%	Left	11.86	0.33				
15cm	< 99%	Right	11.82	0.24				
15cm	< 99%	Front	12.09	0.29				
15cm	< 99%	Rear	11.95	0.27				
	Limit							
	2.00%	20.25%						



1.1 Test Setup photo



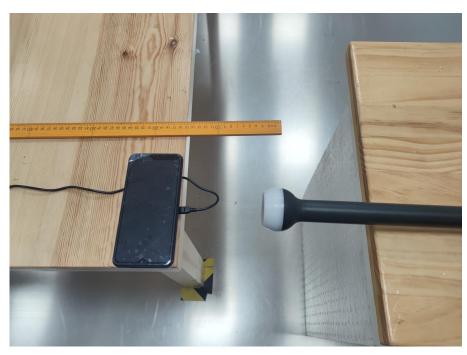


Left





Rear

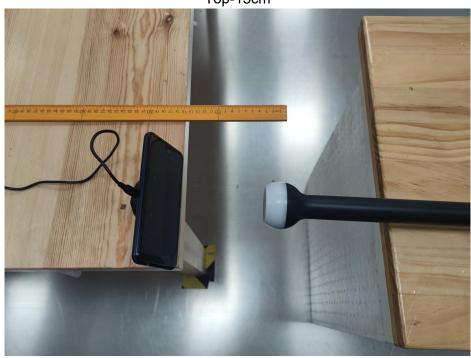


Right









Top-20cm



End of report