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FCC Test Report

Test Report On Behalf of Shenzhen Xiangdangwen Technology Co.,Ltd. For Lisen Magnetic Wireless Car Charger Model No.: 2E778

FCC ID: 2AW73-2E778

Prepared For:

Shenzhen Xiangdangwen Technology Co.,Ltd. 106, 1/F, No.313-4 Building, Huachang Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China

Prepared By:

Shenzhen HUAK Testing Technology Co., Ltd.

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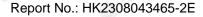
 Date of Test:
 Aug. 04, 2023 ~ Aug. 14, 2023

 Date of Report:
 Aug. 14, 2023

 Report Number:
 HK2308043465-2E

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Test Result Certification

Applicant's Name:	Shenzhen Xiangdangwen Technology Co.,Ltd.			
Address:	106, 1/F, No.313-4 Building, Huachang Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China			
Manufacture's Name:	Shenzhen Xiangdangwen Technology Co.,Ltd.			
Address:	106, 1/F, No.313-4 Building, Huachang Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China			
Product Description				
Trade Mark:	LISEN, AINOPE, VEICO			
Product Name:	Lisen Magnetic Wireless Car Charger			

Model and/or Type Reference: 2E778

Standards: FCC CFR 47 PART 18, KDB 680106 D01

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Date of Test	
Date (s) of Performance of Tests	Aug. 04, 2023 ~ Aug. 14, 2023
Date of Issue	Aug. 14, 2023
Test Result	Pass

Testing Engineer

Tar

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory:

asin 1

(Jason Zhou)

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Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. Frequency Band: 112-205KHz

	Channel List								
Channel	Frequency (KHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
Middle CH	124	¥	-				~		
		-ESTING				WO			
STING		HUAK	- 5	TING	HUAK		STING		
- WAKTL	0		- HUAK TE		0	-	UAKIL		

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.

2. Summary of Test Results

2.1 Test procedures according to the technical standards:

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01

	FCC CFR 47		
Standard Section	Test Item	Judgment	Remark
FCC CFR 47 part1, 1.1310 KDB 680106 D01v03r01 (3)(3)	Magnetic Field Strength (H) (A/m)	PASS	HUAKTESTING

2.2 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1 HUNK THE	All Emissions, Radiated(<30M)(9KHz-30MHz)	±3.90dB
2	Temperature	±0.5°C
3	Humidity	±2%

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2.3 Test Instruments

		124	201	121	-14.
Description	Brand	Model No.	S/N	Calibrated Date	Calibrated Until
Electric and Magnetic Field Analyzer	narda	EHP-200AC	180ZX11028	Feb. 17, 2023	Feb. 16, 2024

NOTE: 1. The calibration interval of the above test instruments is 12 months.

2.4 Test Mode

Test Item	Test	Description
HUNTESIN	mode	HUMATESTIC HUMATEST
	Mode 1	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: <1%)
MPE Test Cases	Days	Bitting Bitting Bitting
JAK TES.	Mode 2	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: <50%)
	Mode 3	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: <100%)

Note:

1. All modes and configurations above have been tested, Only the result of the worst case was recorded in the report, the worst-case configuration is Mode 1.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. The Mobile Phone provided by Lab.

4. According to the manufacturer's design principle, the wireless charging power will reach its maximum when the client device's battery level is between 1% and 10%.

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3. Maximum Permissible Exposure

Limit of Maximum Permissible Exposure

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 Time 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	"LAK TESTIN"		F/300	6							
1500-100,000	ne O.	TESTING	5	6							
	Limits for General	Population / Uncon	trolled Exposure								
Frequency Range (MHz)Electric Field Strength (E) (V/m)Magnetic Field Strength (H) (A/m)Power Density (S) (mW/ cm²)Averaging - E ², H ² o (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		C HUMAN	F/1500	30							
1500-100,000	& TESTING		KTET MUS	30							

Note 1: f = frequency in MHz; *Plane-wave equivalent power density.

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03.

Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

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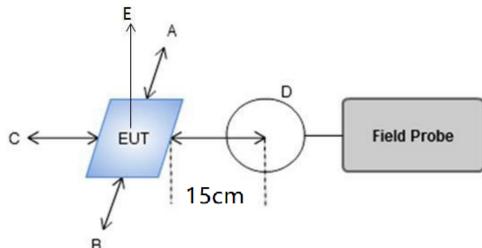
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4. Test Procedure

a. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of (H-field & E- field strengths for all sides is 15cm, H-field strengths of top side is 20cm).

E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device.

4.1 Test Setup



4.2 Result of Maximum Permissible Exposure

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For Full load:

H-Field Strength at 15 cm (E top side: 20cm) from the edges surrounding the EUT (A/m)

Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
A/m	0.0468	0.0489	0.0423	0.0416	0.0473	1.63

For Half Load mode:

H-Field Strength at 15 cm (E top side: 20cm) from the edges surrounding the EUT (A/m)

Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
A/m	0.0452	0.0487	0.0469	0.0412	0.0466	1.63

For No load mode:

H-Field Strength at 15 cm (E top side: 20cm) from the edges surrounding the EUT (A/m)

ŀ.	Field	Test	Test	Test	Test	Test	Limits
	strength	Position A	Position B	Position C	Position D	Position E	(A/m)
10	A/m	0.0469	0.0399	0.0423	0.0498	0.0452	1.63

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Remark: According KDB 680106 D01 RF Exposure Wireless Charging App v03r01, section 5, b). 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. The E- field evaluation conducted assuming a user separation distance of 15 cm according to the KDB 680106 D01 RF Exposure Wireless Charging App v03 section 3, c).

Result: The device comply with the RF exposure requirement according to 680106 D01 v03r01, section 5, b):

(1) Power transfer frequency is less than 1MHz.

- The device operate in the frequency range for 112 KHz~ 205 KHz

(2) Output power from each primary coil is less than or equal to 15 watts. - The maximum output power is 15W

(3) The system consists of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time. -- The transfer system is a charging system with only one main coil.

(4) Client device is placed directly in contact with the transmitter.The EUT is placed directly in contact with the transmitter

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

- Yes, mobile device only.

(6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

- The EUT meet the conditions.

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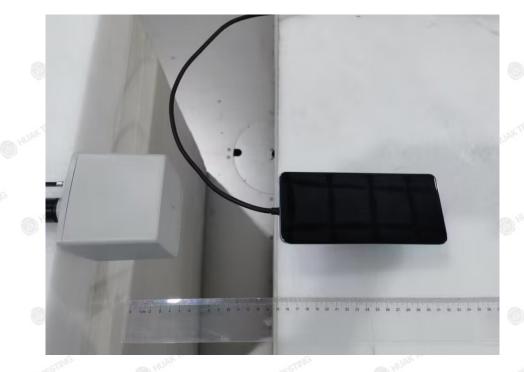


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Photograph of Test

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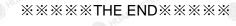


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