



FCC TEST REPORT

Maximum Permissible Exposure (MPE)

FCC ID: 2BNQ3-HUANCI-01

Product Name : Magnetic phone holder
Model Name : HuanCi-01
Brand Name : N/A
Report No. : PTC25011708501E-FC02

Prepared for

Shenzhen Huayi Fangyuan Technology Co., Ltd
201, No. 27 Yujie Road, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen

Prepared by

Precise Testing & Certification Co., Ltd
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China



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1TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Huayi Fangyuan Technology Co., Ltd
Address : 201, No. 27 Yujie Road, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen
Manufacture's name : Shenzhen Huayi Fangyuan Technology Co., Ltd
Address : 201, No. 27 Yujie Road, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen
Product name : Magnetic phone holder
Model name : HuanCi-01
Standards : FCC CRF 47 PART 1, §1.1310
Test procedure : KDB 680106 Wireless Power Transfer v04
Test Date : Feb. 10, 2025 to Mar. 11, 2025
Date of Issue : Mar. 11, 2025
Test Result : Pass

This device described above has been tested by PTC, 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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Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



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2 Test Summary

Test	Test Requirement	Test Method	Limit / Severity	Result
RF Exposure	FCC CRF 47 PART 1, §1.1310	KDB 680106 Wireless Power Transfer v04	1.1310	PASS

Remark:

N/A: Not Applicable

RF: In this whole report RF means Radio Frequency.

A.M. Amplitude Modulation.

P.M. Pulse Modulation.



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2.1 Instrument list

Name of Equipment	Manufacturer	Model	Last Calibration	Calibration
Exposure Level Tester	Narda	ELT-400	Aug. 15, 2024	1 Year
H-Field probe	Narda	HF-3061	Aug. 15, 2024	1 Year
E-Field probe	Narda	EF0691	Aug. 15, 2024	1 Year



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2.2 Support Units

Equipment	Model No.	Series No.
Load	Xiaomi 13	N/A



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3 TEST FACILITY

Precise Testing & Certification Co., Ltd.

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

A2LA Certificate No.: 4408.01

FCC Registration Number: 790290

FCC Designation Number: CN1219

IC Registration Number: 12191A

CAB identifier: CN0080



4 General Information

4.1 General Description of E.U.T.

Product Name	:	Magnetic phone holder
Model Name	:	HuanCi-01
Operating frequency	:	110.5 ~ 205kHz
Antenna Type	:	Coil Antenna
Antenna Gain	:	0 dBi
Power supply	:	Output:5VDC,9VDC,12VDC  2A
Wireless Charging output Power	:	Wireless Output: 15W (MAX)
Hardware Version	:	N/A
Software Version	:	N/A



Test mode:

Antenna1(charging Mobile phone):

Pretest Mode	Description
Mode 1	Stand charging mode(5W,no load, half load, full load)
Mode 2	Stand charging mode(7.5W,no load, half load, full load)
Mode 3	Stand charging mode(10W,no load, half load, full load)
Mode 4	Stand charging mode(15W,no load, half load, full load)



5 RF Exposure Evaluation

5.1 Limits

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 Time 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 ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/150	30
1500-100,000	--	--	1.0	30

f = frequency in MHz

*Plane-wave equivalent power density

- A. The RF exposure test was performed in anechoic chamber.
- B. E and H field measurements should be made with the center of the probe at distance of 15cm surrounding the EUT and 20cm above the top surface of the primary/client pair.
- C. The highest emission level was recorder and compared with limit.
- D. The EUT was measured according to the dictates of KDB 680106 Wireless Power Transfer v04.



(A) Limits for Occupational / Controlled Exposure

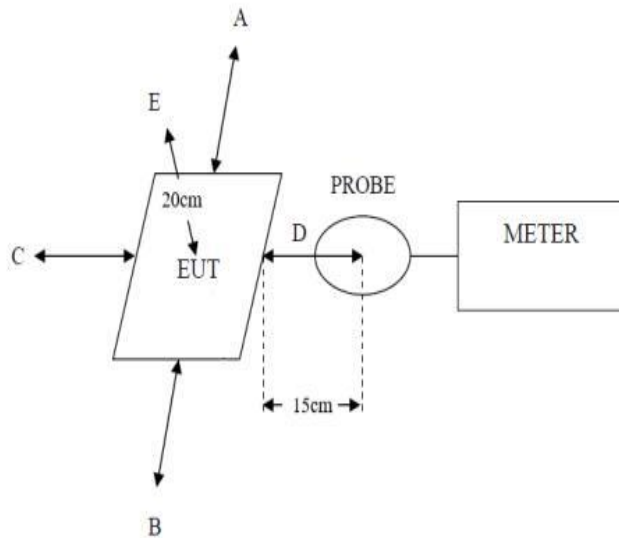
Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
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
1500-100,000			1.0	30

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

5.2 Test Configuration



5.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

5.4 RF Exposure test result

Temperature: 24°C

Relative Humidity: 53%



EUT was tested with empty load, half load and full load, the full load is the worst case and

we listed the results in the report.

Charging mobile phone:

Test result of Magnetic Field Strength:

Test Position	Test distance (cm)	Reading result (uT)	Test result (A/m)	50% Limit (A/m)	Limit (A/m)	Result
A: Right	20	0.1123	0.0898	0.815	1.63	Passed
B: Left	20	0.1646	0.1317	0.815	1.63	
C: Front	20	0.1614	0.1291	0.815	1.63	
D: Back	20	0.1526	0.1221	0.815	1.63	
E: Top	20	0.1123	0.0898	0.815	1.63	
E: Top	20	0.1130	0.0904	0.815	1.63	

Note: A/m=uT/1.25

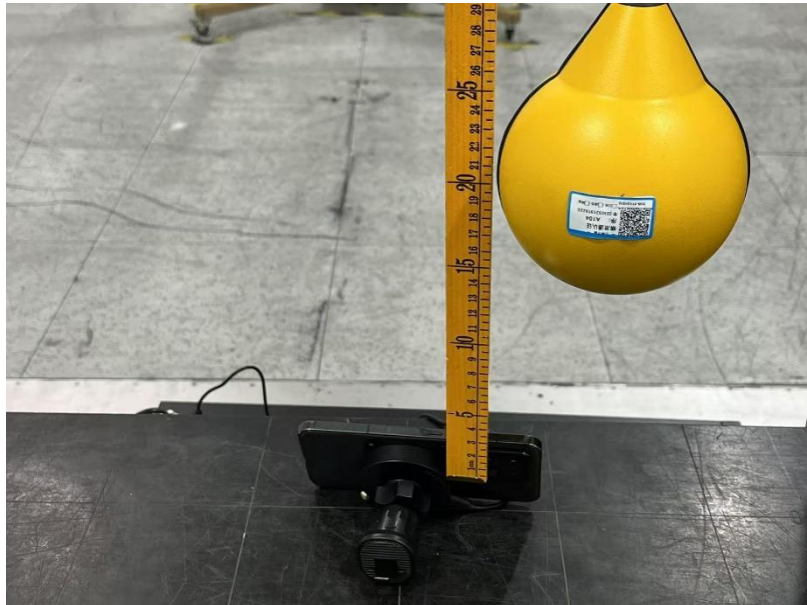
Test result of Electric Field Strength:

Test Position	Test distance (cm)	Test result (V/m)	Limit (V/m)	Result
A: Right	20	2.35	614	Passed
B: Left	20	2.32	614	
C: Front	20	2.58	614	
D: Back	20	2.26	614	
E: Top	20	2.71	614	
E: Top	20	2.15	614	



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6 Test Setup Photos



*****THE END REPORT*****