

TEST REPORT

FCC ID. :	2BQ5C-MPOWR	
Test Report No..... :	TCT250702E032	
Date of issue..... :	Jul. 25, 2025	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	The Ridge Wallet LLC	
Address..... :	2448 Main Street, Santa Monica 90405, CALIFORNIA	
Manufacturer's name ... :	Dongguan NOVELDIGI Technology Co., LTD	
Address..... :	RM313, 3rd Building, No. 58, Longyan 9th Road, Humen Town, Dongguan City, Guangdong Province, China	
Standard(s)	FCC CFR Title 47 Part 1.1310 KDB 680106 D01 RF Exposure Wireless Charging App v04	
Product Name..... :	MAGNETIC POWER BANK	
Trade Mark	N/A	
Model/Type reference..... :	A0369, A0370, A0371, A0369-102, A0369-103, A0369-104, A0369-105	
Rating(s)..... :	Rechargeable Li-ion Battery DC 3.85V	
Date of receipt of test item	Jul. 02, 2025	
Date (s) of performance of test..... :	Jul. 02, 2025 ~ Jul. 25, 2025	
Tested by (+signature) ... :	Rleo LIU	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

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1. General Product Information

1.1. EUT description

Product Name.....:	MAGNETIC POWER BANK
Model/Type reference.....:	A0369
Sample Number.....:	TCT250702E031-0101
Operation Frequency	Watch Charging: 325.64kHz Others Wireless Charging: 112.88-146.24kHz
Output power.....:	Watch Charging: 2.5W Others Wireless Charging: 5W/7.5W/10W/15W
Modulation Technology	Load modulation
Antenna Type.....:	Inductive loop coil Antenna
Rating(s).....:	Rechargeable Li-ion Battery DC 3.85V

1.2. Model(s) list

No.	Model No.	Tested with
1	A0369	☒
Other models	A0370, A0371, A0369-102, A0369-103, A0369-104, A0369-105	☐

Note: A0369 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names and color. So the test data of A0369 can represent the remaining models.

2. General Information

2.1. Test environment and mode

Operating Environment:		
Temperature:		25 °C
Humidity:		55 % RH
Atmospheric Pressure:		1010 mbar
Test Mode:		
AC Mode	TM1	Charging + wireless charging(2.5W)
	TM2	Charging + wireless charging(5W)
	TM3	Charging + wireless charging(10W)
DC Mode	TM4	wireless charging(2.5W)
	TM5	wireless charging(10W)
	TM6	wireless charging(15W)
Remark		The maximum wireless charging power can only reach 10W at AC mode.

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Apple Watch	A1757	/	/	Apple
Mobile Phone	SM-G9350	R28HA2ER3GT	/	SAMSUNG
Adapter	EP-TA200	R37M4PR7QD4SE3	/	SAMSUNG

3. Facilities and Accreditations

3.1. Facilities

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

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- A2LA-No.: 4320.01

SHENZHEN TONGCE TESTING LAB

The testing lab has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4. Technical Requirements Specification

4.1. Requirements

According to the item 5 of KDB 680106 D01 RF Exposure Wireless Charging App v04:

- 1) Power transfer frequency is below 1 MHz.
Wireless power transfer operation frequency for Watch: 325.64kHz
Others Wireless Charging: 112.88-146.24kHz
- 2) Output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
The max output power is 15W
- 3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)
The EUT is in physical contact with the the client device.
- 4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions)
Portable exposure
- 5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1.
Yes, E-field and H-field strengths meet the requirements
- 6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.
Yes, All the modes were tested

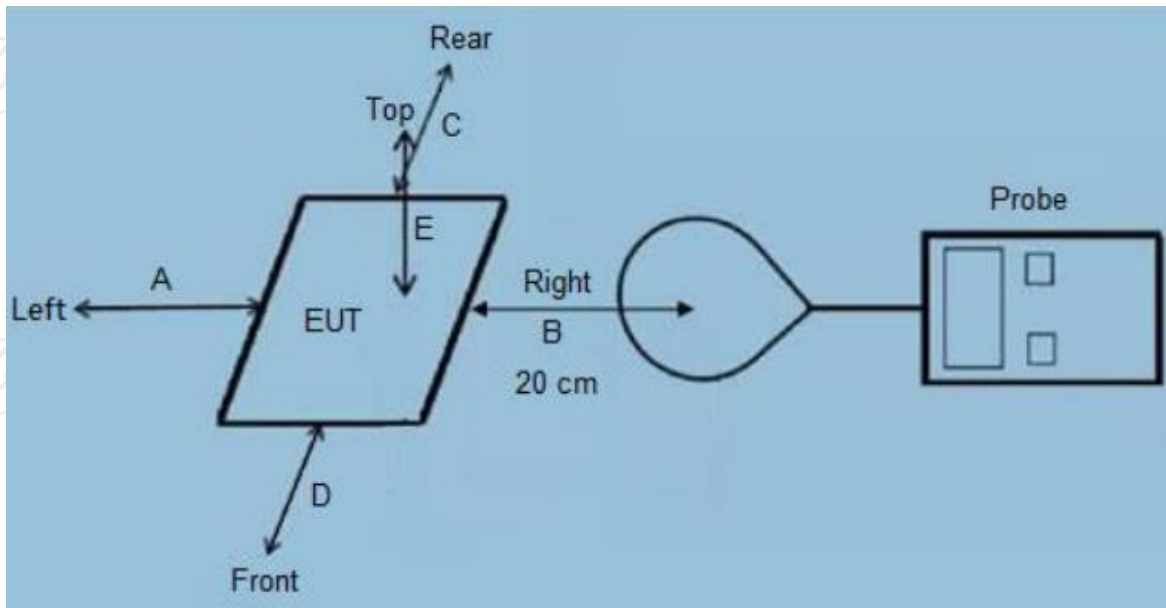
Limits For Maximum Permissible Exposure (MPE)

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 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	/	/	f/300	6
1500-100,000	/	/	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
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

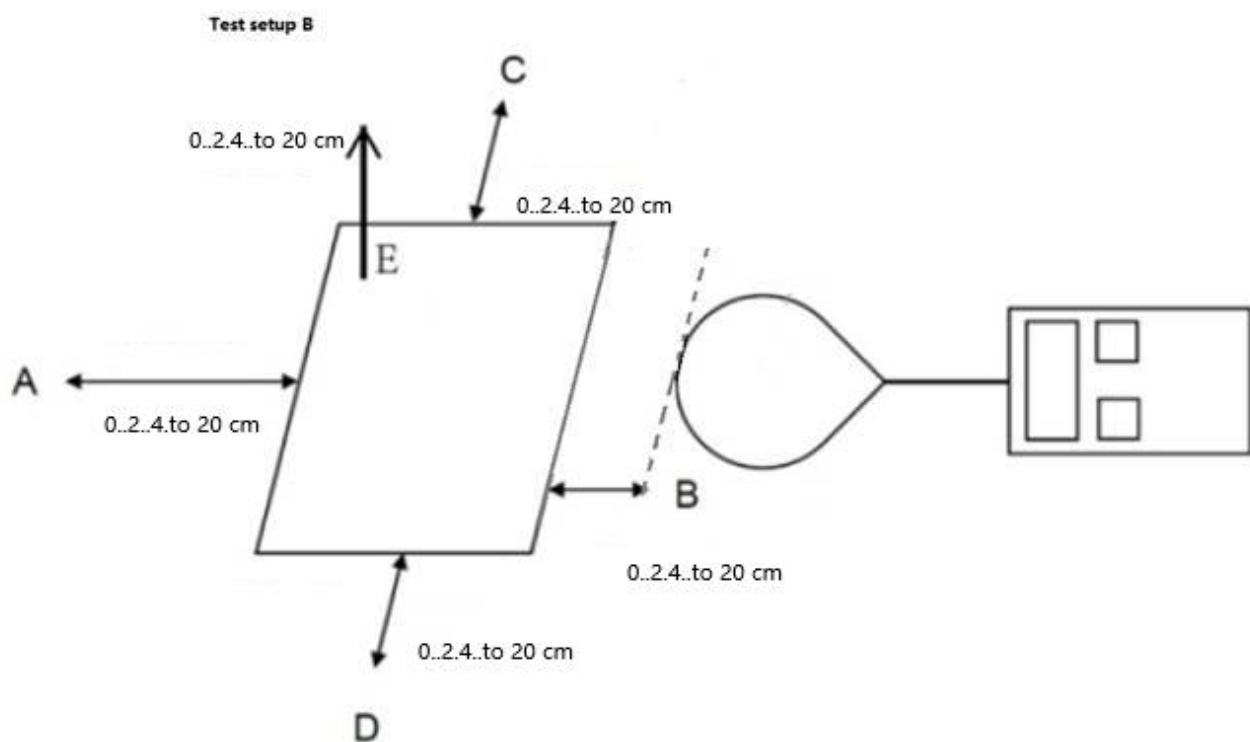
F=frequency in MHz
 *=Plane-wave equivalent power density
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

4.2. Test Setup

A:

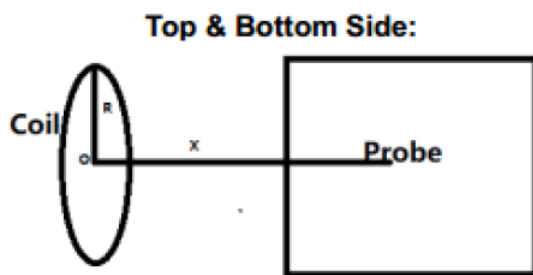


B:

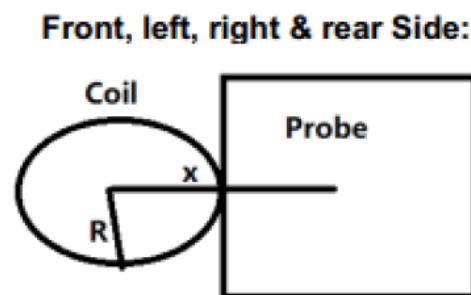


4.3. Test Procedure

- 1) The RF exposure test was performed in an echoic chamber;
- 2) The measurement probe was placed at test distance(15 cm from edges, 20 cm and 15cm from top) Which is between the edge of the charger and the geometric center of probe, for test setup A;
- 3) In addition to what is described in KDB 680106 D01, please measure and provide magnetic and electrical field strength at a distance 0cm to 20cm at 2cm iteration, i.e. at a distance of 0cm, 2cm, 4cm, 20cm. Which is between the edge of the charger and the edge of of probe, for test setup B;
- 4) The highest emission leve laws recorded and compared with limit as soon as measurement of each points (A,B, C,D, E, F)were complete.
- 5) According to the requirements if KDB 680106 D01 v04, If the center of the probe sensing element is located more than 5 mm (The sensitive elements are located approximately 8 mm below the external surface specified in user manual of EHP-200A) from the probe outer surface, the field strengths need to be estimated through modeling for those positions that are not reachable;
- 6) Use **Biot-Savart Law**, the value of 0 cm can be estimated through the results of 2 cm, according to the formula:



$$B = \frac{\mu_0 * I * N * R^2}{2 * (R^2 + x^2)^{3/2}}$$



$$B = \frac{\mu_0 * I * N}{2 * x}$$

Remark:

B: H-field(Unit:T)

μ_0 : Space permeability= $4 * \pi * 10^{-7}$

I (Unit: A): The current element passing through a radiated coil.

R: Radius of radiated coil, according to the coil specification: R=0.014m

X: The distance from the sensing elements of the probe to the edge of the radiated coil (the dimensions of EUT and load are take into account) (Unit: m)

N: Turns of the radiated coil, according to the coil specification: N=12.

4.4. Test Instruments List

Equipment	Manufacturer	Model No.	Serial No.	Date of Cal.	Due Date
Electric and Magnetic Field Analyzer	Narda	EHP-200A	180ZX20511	Jul. 01, 2025	Jun. 30, 2026

4.5. Test Result

Test Result for Test setup A:

AC mode

Watch Charging(2.5W):

E-Filed Strength at 20 cm surrounding the EUT (V/m)

Test mode	Test Position A (V/m)	Test Position B (V/m)	Test Position C (V/m)	Test Position D (V/m)	Test Position E (V/m)20cm	Test Position E (V/m)15cm	Limits (V/m)
Battery≥95%	0.21	0.25	0.28	0.26	0.29	0.26	614
Battery≥50%	0.23	0.24	0.27	0.21	0.30	0.22	614
Battery≥5%	0.29	0.23	0.27	0.20	0.30	0.32	614

H-Filed Strength at 20 cm surrounding the EUT (A/m)

Test mode	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)20cm	Test Position E(A/m)15cm	Limits (A/m)
Battery≥95%	0.045	0.045	0.043	0.040	0.041	0.043	1.63
Battery≥50%	0.048	0.045	0.046	0.042	0.046	0.049	1.63
Battery≥5%	0.046	0.042	0.049	0.041	0.044	0.046	1.63

Mobile Phone Charging:

E-Filed Strength at 20 cm surrounding the EUT (V/m)

Test mode	Test Position A (V/m)	Test Position B (V/m)	Test Position C (V/m)	Test Position D (V/m)	Test Position E (V/m)20cm	Test Position E (V/m)15cm	Limits (V/m)
TM2	0.43	0.40	0.43	0.46	0.41	0.43	614
TM3	0.42	0.42	0.41	0.42	0.41	0.43	614
TM4	0.47	0.48	0.46	0.44	0.42	0.45	614

H-Filed Strength at 20 cm surrounding the EUT (A/m)

Test mode	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)20cm	Test Position E(A/m)15cm	Limits (A/m)
TM2	0.047	0.048	0.048	0.042	0.049	0.043	1.63
TM3	0.045	0.046	0.049	0.044	0.046	0.047	1.63
TM4	0.048	0.049	0.042	0.044	0.046	0.048	1.63

Test Result for Test setup B:

DC mode

Watch Charging (2.5W):

Battery $\geq 5\%$, $\geq 50\%$, $\geq 95\%$ all have been tested, only worse case (battery ≥ 50) is reported.

H-Filed Strength at (distance 0cm to 20cm at 2cm iteration, i.e. at a distance of 20cm, 18cm, 16cm, 0cm, Which is between the edge of the charger and the edge of of probe,) surrounding the EUT (A/m)

Test distance (cm)	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position F(A/m)	Limits (A/m)
2	0.124	0.122	0.124	0.102	0.215	0.196	1.63
4	0.067	0.066	0.068	0.062	0.072	0.070	1.63
6	0.065	0.060	0.067	0.061	0.071	0.068	1.63
8	0.060	0.055	0.063	0.058	0.065	0.064	1.63
10	0.057	0.052	0.062	0.056	0.064	0.063	1.63
12	0.057	0.050	0.060	0.054	0.062	0.061	1.63
14	0.054	0.047	0.057	0.052	0.060	0.060	1.63
16	0.053	0.043	0.056	0.050	0.059	0.058	1.63
18	0.050	0.042	0.055	0.047	0.057	0.57	1.63
20	0.050	0.041	0.053	0.046	0.056	0.055	1.63

Use the Biot-Savart Law to estimated the results of 2cm through 4 cm.

Test position	Measure Value(A/m)	Estimated Value (A/m)	Agreement Ratio	Limits
A	0.124	0.092	-25.81%	30%
B	0.122	0.091	-26.23%	30%
C	0.125	0.093	-25.00%	30%
D	0.122	0.075	-26.47%	30%
E	0.215	0.271	26.05%	30%
F	0.196	0.215	9.69%	30%

As the model is sufficient, the value of 0cm can be estimated through the results of 2 cm

Test position	Estimated Value (A/m)	Limits(A/m)
A	0.197	1.63
B	0.194	
C	0.197	
D	0.130	
E	1.500	
F	1.025	

Mobile Phone Charging:

5W, 10W, 15W load all have been tested, only worse case Max load (15W) is reported.

H-Filed Strength at (distance 0cm to 20cm at 2cm iteration, i.e. at a distance of 20cm, 18cm, 16cm, 0cm, Which is between the edge of the charger and the edge of of probe,) surrounding the EUT (A/m)

Test distance (cm)	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position F(A/m)	Limits (A/m)
2	0.129	0.127	0.130	0.115	0.227	0.214	1.63
4	0.072	0.070	0.075	0.070	0.076	0.075	1.63
6	0.070	0.068	0.073	0.068	0.074	0.074	1.63
8	0.065	0.062	0.068	0.063	0.070	0.070	1.63
10	0.063	0.060	0.067	0.062	0.069	0.068	1.63
12	0.062	0.059	0.065	0.060	0.067	0.066	1.63
14	0.060	0.057	0.062	0.058	0.064	0.065	1.63
16	0.057	0.054	0.061	0.057	0.063	0.062	1.63
18	0.056	0.052	0.060	0.055	0.060	0.060	1.63
20	0.055	0.051	0.058	0.052	0.059	0.058	1.63

Use the Biot-Savart Law to estimated the results of 2cm through 4 cm.

Test position	Measure Value(A/m)	Estimated Value (A/m)	Agreement Ratio	Limits
A	0.129	0.097	-24.81%	30%
B	0.127	0.101	-20.47%	30%
C	0.13	0.103	-20.77%	30%
D	0.115	0.085	-26.09%	30%
E	0.227	0.286	25.99%	30%
F	0.214	0.23	7.48%	30%

As the model is sufficient, the value of 0cm can be estimated through the results of 2 cm

Test position	Estimated Value (A/m)	Limits(A/m)
A	0.205	1.63
B	0.202	
C	0.206	
D	0.147	
E	0.158	
F	0.119	

4.6. Test Set-up Photo

Please refer to document Appendix No.: TCT250702E031-A

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