

Test Report

Report No.: MTi240920008-07E2

Date of issue: 2024-10-26

Applicant: Shenzhen Weiming Technology Co.,Ltd

Product: Wireless Charging Power Bank

Model(s): P5, P1, P3, P6, P8, P9 , P10, P11, P12, P13, P15,
P16, P17, P18, P19, P20, P21, P22

FCC ID: 2BLZ5-P5

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.cn>

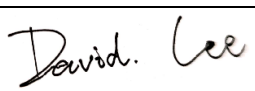
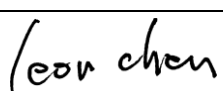
Instructions

1. This test report shall not be partially reproduced without the written consent of the laboratory.
2. The test results in this test report are only responsible for the samples submitted
3. This test report is invalid without the seal and signature of the laboratory.
4. This test report is invalid if transferred, altered, or tampered with in any form without authorization.
5. Any objection to this test report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

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Test Result Certification	
Applicant:	Shenzhen Weiming Technology Co.,Ltd
Address:	No.101-502,Gaoya Industrial Park,No,8 Liuhe Road, Liuyue, Henggang Street, Longgang District, Shenzhen, Guangdong
Manufacturer:	Shenzhen Weiming Technology Co.,Ltd
Address:	No.101-502,Gaoya Industrial Park,No,8 Liuhe Road, Liuyue, Henggang Street, Longgang District, Shenzhen, Guangdong
Product description	
Product name:	Wireless Charging Power Bank
Trademark:	NEWQI
Model name:	P5
Series Model:	P1, P3, P6, P8, P9 , P10, P11, P12, P13, P15, P16, P17, P18, P19, P20, P21, P22
Standards:	FCC CFR 47 PART 1, § 1.1310
Test method:	KDB 680106 D01 Wireless Power Transfer v04
Date of Test	
Date of test:	2024-10-22 to 2024-10-25
Test result:	Pass

Test Engineer	:	
		(Maleah Deng)
Reviewed By	:	
		(David Lee)
Approved By	:	
		(Leon Chen)

1 General Description

1.1 Description of the EUT

Product name:	Wireless Charging Power Bank
Model name:	P5
Series Model:	P1, P3, P6, P8, P9 , P10, P11, P12, P13, P15, P16, P17, P18, P19, P20, P21, P22
Model difference:	All the models are the same circuit and module, except the model name and color.
Electrical rating:	Type-C Input: DC 5V/3A, 9V/2A Type-C Output: DC 5V/3A, 9V/2.22A, 12V/1.5A Wireless Output: 5W/7.5W/10W/15W(Smart phone), 5W(Earphone), 2.5W(Smart Watch) Battery: DC 3.87V 5000mAh, 19.35Wh
Accessories:	Cable: Type-C to Type-C cable (0.5m)*1
Hardware version:	1.0
Software version:	1.0
Test sample(s) number:	MTi240920008-07S1001
RF specification:	
Operation frequency:	Phone & Earphone: 115-205KHz Watch: 326kHz
Modulation type:	ASK
Antenna type:	Coil Antenna

1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

No.	Emission test modes
Mode1	Charging+Wireless Output(Phone(5W)
Mode2	Charging+Earphone Output(5W)
Mode3	Charging+Watch Output(5W)
Mode4	Wireless Output(Phone(5W)
Mode5	Wireless Output(Phone(7.5W)
Mode6	Wireless Output(Phone(10W)
Mode7	Wireless Output(Phone(15W)
Mode8	Earphone Output(5W)
Mode9	Watch Output(2.5W)
Mode10	Stand by

1.3 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.

Support equipment list			
Description	Model	Serial No.	Manufacturer
HUAWEI QUICK CHARGE	HW-200200ZP1	JN67LSN7N03451	HUAWEI
Smartphone	FIND X3	/	OPPO
Air Pods	MQD83CH/A	/	Apple
iwatch	iwatch SE	/	Apple
Support cable list			
Description	Length (m)	From	To
/	/	/	/

2 Measurement uncertainty

Parameter	Expanded Uncertainty
Magnetic field measurements(3kHz~10MHz)	$\pm 14.8\%$
Electric field measurements(3kHz~10MHz)	$\pm 17.5\%$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3 Test facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573

4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTI-E143	Near-field Electric and Magnetic Field Sensor System	Speag	MAGPy-8H3D +ED3 V2	3101	2024/3/12	2027/3/11

No.	Equipment	Manufacturer	Model	Software version:	Cal. date	Cal. Due
MTI-E016S	MPE test software	SPEAG	MAGPY 2.4	2.4.1	/	/

5 Test result

5.1.1 Requirement

§1.1310: 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), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Table 1 to §1.1310(e)(1) - 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)
(i) Limits for Occupational/Controlled Exposure				
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
1500-100000			5	<6
(ii) 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
1500-100000			1.0	<30

f = frequency in MHz

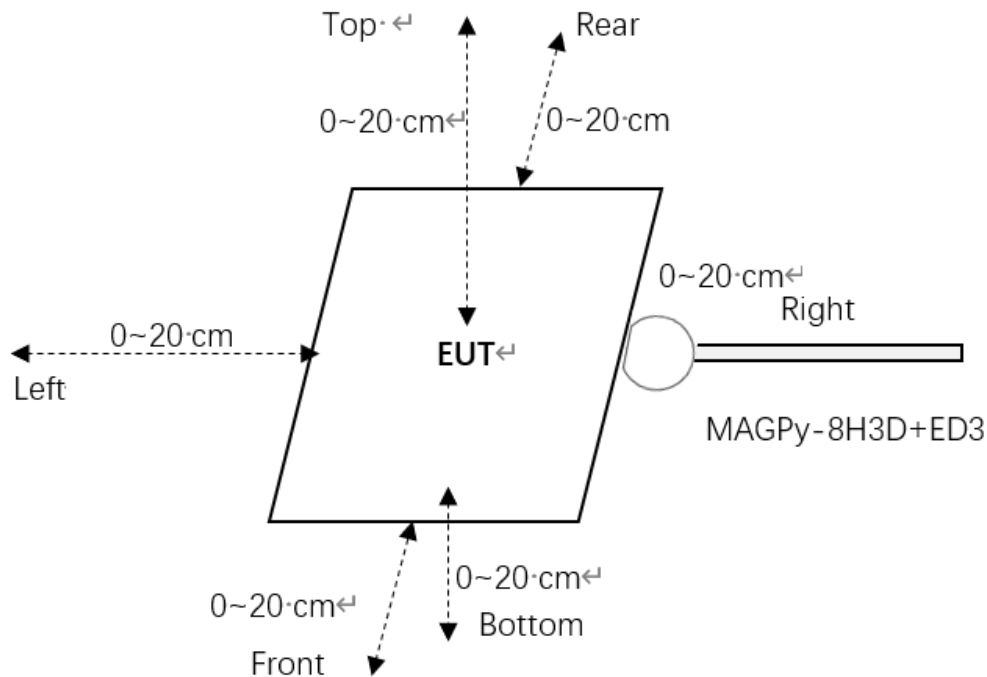
* = Plane-wave equivalent power density

Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Note 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

5.2 Test setup

0~20cm distance:



Note: tips mode of the test probe is used for 0cm measurement.

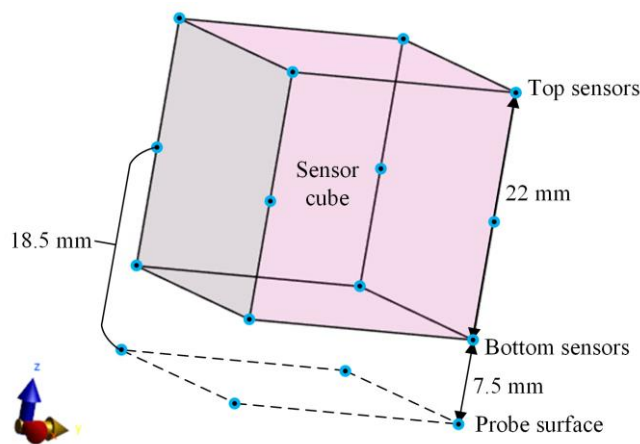
5.3 Test Procedures

a. H-field measurements should be taken 0 cm ~ 20 cm with 2 cm increments from the center of the probe.

The center of the probe to the tip surface of the probe is 18.5 mm, so the directly testing can be performed at the probe center from 2 cm to 20 cm.

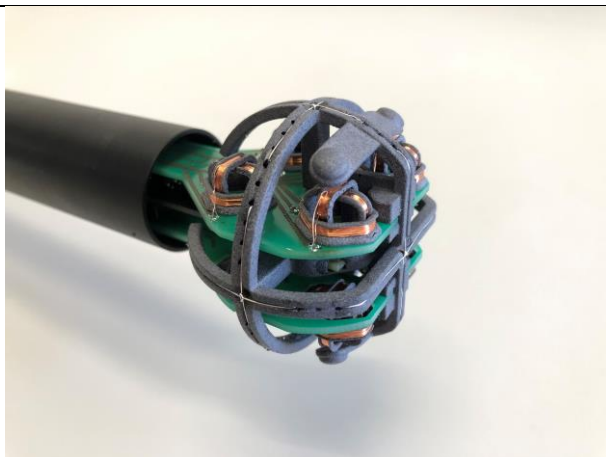
To measure the 0 cm H-field, the probe tip mode is used. The total H-field at the tip-surface $H_{tip-surface}$ can be extrapolated using the total H-field measured at the top and bottom sensors, H_{top} and H_{bottom} , as well as the normalized H-field gradient G_n . The field extrapolation formula is a polynomial function of G_n ($\Delta d = 18.5$ mm)

$$H_{tip-surface} = \frac{H_{bottom} + H_{top}}{2} \sum_{i=0}^7 ci(G_n \Delta d)^i$$



5.4 Information of test equipment

Test equipment: MAGPy-8H3D+ED3	
Diameter	60mm
8 isotropic H-field sensors	Concentric loops of 1cm ² arranged at the corner of a cube of 22mm side length
1 isotropic E-field sensor	Orthogonal dipole/monopole (arm length: 50mm)
Measurement center	18.5mm from the probe tip
Dimensions	110*635*35mm (MAGPy-8H3D+E3D V2 & MAGPy-DAS V2)



Test probe, without the casing

Item	Specification
Test frequency range:	3kHz ~ 10MHz
Probe sensitivity	E-field: 0.08-2000 V/m H-field: 0.1-3200 A/m
Probe level response	E-field: ± 1 dB H-field: ± 1 dB
linearity error	E-field: ± 0.3 dB H-field: ± 0.3 dB
Isotropy	E-field: ± 0.8 dB H-field: ± 0.6 dB

5.5 Test results

Test condition 1: Mode 7 operating mode with client device (1 % battery status of client device)
-estimated value: 0cm

Estimated value for H-Filed Strength at 0 cm from the edges surrounding the EUT (A/m)

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	1.58	1.63	96.93%
	Left	0.40		
	Right	1.24		
	Front	1.05		
	Rear	1.02		
	Bottom	0.94		

Test condition 2: Mode 7 operating mode with client device (1 % battery status of client device)
- Test distance: 2cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	1.35	1.63	82.82%
	Left	0.19		
	Right	0.43		
	Front	0.39		
	Rear	0.25		
	Bottom	0.14		

Test condition 3: Mode 7 operating mode with client device (1 % battery status of client device)
- Test distance 4cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.98	1.63	60.12%
	Left	0.13		
	Right	0.21		
	Front	0.15		
	Rear	0.14		
	Bottom	0.06		

Test condition 4: Mode 7 operating mode with client device (1 % battery status of client device)
- Test distance 6cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.43	1.63	26.38%
	Left	0.07		
	Right	0.11		
	Front	0.08		
	Rear	0.05		
	Bottom	0.02		

Test condition 5: Mode 7 operating mode with client device (1 % battery status of client device)
- Test distance 8cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.19	1.63	11.66%
	Left	0.03		
	Right	0.02		
	Front	0.03		
	Rear	0.01		
	Bottom	0.008		

Test condition 6: Mode 7 operating mode with client device (1 % battery status of client device)
- Test distance 10cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.080	1.63	4.91%
	Left	0.009		
	Right	0.006		
	Front	0.004		
	Rear	0.005		
	Bottom	0.003		

Test condition 7: Mode 7 operating mode with client device (1 % battery status of client device)
- Test distance 12cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0787	1.63	4.83%
	Left	0.0077		
	Right	0.0047		
	Front	0.0027		
	Rear	0.0037		
	Bottom	0.0017		

Test condition 8: Mode 7 operating mode with client device (1 % battery status of client device)
- Test distance 14cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0783	1.63	4.80%
	Left	0.00749		
	Right	0.00451		
	Front	0.00252		
	Rear	0.00350		
	Bottom	0.00153		

Test condition 9: Mode 7 operating mode with client device (1 % battery status of client device)
- Test distance 16cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0530	1.63	3.25%
	Left	0.0052		
	Right	0.0069		
	Front	0.0049		
	Rear	0.0045		
	Bottom	0.0029		

Test condition 10: Mode 7 operating mode with client device (1 % battery status of client device)
- Test distance 18cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.01150	1.63	0.71%
	Left	0.006304		
	Right	0.008002		
	Front	0.006013		
	Rear	0.005674		
	Bottom	0.004054		

Test condition 11: Mode 7 operating mode with client device (1 % battery status of client device)
- Test distance 20cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.00519	1.63	0.32%
	Left	0.00259		
	Right	0.00308		
	Front	0.00139		
	Rear	0.00357		
	Bottom	0.00188		

Test condition 1: Mode 9 operating mode with client device (1 % battery status of client device)

-estimated value: 0cm

Estimated value for H-Filed Strength at 0 cm from the edges surrounding the EUT (A/m)

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	1.41	1.63	86.50%
	Left	0.71		
	Right	1.14		
	Front	0.51		
	Rear	1.23		
	Bottom	1.31		

Test condition 2: Mode 9 operating mode with client device (1 % battery status of client device)

- Test distance: 2cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	1.14	1.63	81.60%
	Left	0.41		
	Right	0.35		
	Front	0.21		
	Rear	1.33		
	Bottom	0.92		

Test condition 3: Mode 9 operating mode with client device (1 % battery status of client device)
- Test distance 4cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	1.06	1.63	65.03%
	Left	0.21		
	Right	0.97		
	Front	0.12		
	Rear	0.34		
	Bottom	0.28		

Test condition 4: Mode 9 operating mode with client device (1 % battery status of client device)
- Test distance 6cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.83	1.63	50.92%
	Left	0.13		
	Right	0.41		
	Front	0.07		
	Rear	0.15		
	Bottom	0.12		

Test condition 5: Mode 9 operating mode with client device (1 % battery status of client device)
- Test distance 8cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.29	1.63	17.79%
	Left	0.06		
	Right	0.17		
	Front	0.02		
	Rear	0.06		
	Bottom	0.04		

Test condition 6: Mode 9 operating mode with client device (1 % battery status of client device)
- Test distance 10cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.08	1.63	4.91%
	Left	0.01		
	Right	0.02		
	Front	0.008		
	Rear	0.01		
	Bottom	0.009		

Test condition 7: Mode 9 operating mode with client device (1 % battery status of client device)
- Test distance 12cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0752	1.63	4.61%
	Left	0.0094		
	Right	0.0188		
	Front	0.0075		
	Rear	0.0094		
	Bottom	0.0085		

Test condition 8: Mode 9 operating mode with client device (1 % battery status of client device)
- Test distance 14cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.04813	1.63	2.95%
	Left	0.00602		
	Right	0.01203		
	Front	0.00480		
	Rear	0.00602		
	Bottom	0.00544		

Test condition 9: Mode 9 operating mode with client device (1 % battery status of client device)
- Test distance 16cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.03080	1.63	1.89%
	Left	0.00385		
	Right	0.00770		
	Front	0.00307		
	Rear	0.00385		
	Bottom	0.00348		

Test condition 10: Mode 9 operating mode with client device (1 % battery status of client device)
- Test distance 18cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.02926	1.63	1.80%
	Left	0.00366		
	Right	0.00732		
	Front	0.00292		
	Rear	0.00366		
	Bottom	0.00331		

Test condition 11: Mode 9 operating mode with client device (1 % battery status of client device)
- Test distance 20cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.00960	1.63	0.59%
	Left	0.00245		
	Right	0.00490		
	Front	0.00196		
	Rear	0.00245		
	Bottom	0.00222		

Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----