Test Report

Report No.	:	**MTi250310001-0102E2**
Date of Issue	:	**2025-04-08**
Applicant	:	**Shenzhen Peitian Electronic Co., Ltd.**
Product	:	**Magnetic Wireless Quick Charging Power Bank**
Model(s)	:	**A63**
FCC ID	:	**2BNTA-A63**

Shenzhen Microtest Co., Ltd.

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Test Result Certification		
Applicant	Shenzhen Peitian Electronic Co., Ltd.	
Applicant Address	Room1106, Tower C, Xinghe World, Wuhe South Road, Minzhi Street, LongHua District, Shenzhen, Guangdong, China.	
Manufacturer	Peitian (Dongguan) New Energy Technology Co. Ltd.	
Manufacturer Address	No. 15, East 1st Street, Bai Yun Qian, Cai Bian Village, Da Lang, Dongguan, China	
Product description		
Product name	Magnetic Wireless Quick Charging Power Bank	
Trademark	N/A	
Model name	A63	
Series Model(s)	N/A	
Standards	FCC CFR 47 PART 1, § 1.1310 part2.1093	
Test method	KDB 680106 D01 Wireless Power Transfer v04	
Testing Information		
Date of test	2025-03-28 to 2025-04-08	
Test Result	Pass	
Prepared by	Letter Lan	Letter. Lan.
Reviewed by	David Lee	David. Lee
Approved by	Lewis Lian	Lewis Lian

1 General Description

1.1 Description of the EUT

Product name:	Magnetic Wireless Quick Charging Power Bank
Model name:	A63
Series Model(s):	N/A
Model difference:	N/A
Electrical rating:	Battery Capacity: 111Wh/3.7V/30000mAh Type-C Input: 5V-2.4A, 9V-2A (18W) Type-(Output: 5V-2.4A, 9V-2.22A, 12V-1.67A (20W) Wireless Output: 15W Max.
Accessories:	N/A
Hardware version:	V1.0
Software version:	V1.0
Test sample(s) number:	MTi250310001-01-R01
RF specification	
Operating frequency range:	5W, 10W, 15W: 115-205kHz 7.5W: 360kHz
Modulation type:	ASK
Antenna(s) type:	Coil

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(5W)
Mode2	Charging+Wireless Output(10W)
Mode3	Charging+Wireless Output(15W)
Mode4	Wireless Output(5W)
Mode5	Wireless Output(7.5W)
Mode6	Wireless Output(10W)
Mode7	Wireless Output(15W)
Mode8	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
Phone	X3	/	oppo
Phone	12	/	Apple
Support cable list			
Description	Length (m)	From	To
/	/	/	/

2 Measurement uncertainty

Parameter	Expanded Uncertainty
Magnetic field measurements(3kHz~10MHz)	±14.8%
Electric field measurements(3kHz~10MHz)	±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-8H3 D+ED3	3101	2024/3/12	2027/3/11

No.	Equipment	Manufacturer	Model	Software version:	Cal. date	Cal. Due
MTI-E016S	MPE test software	SPEAG	MAGPY 2.6	2.6	/	/

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)

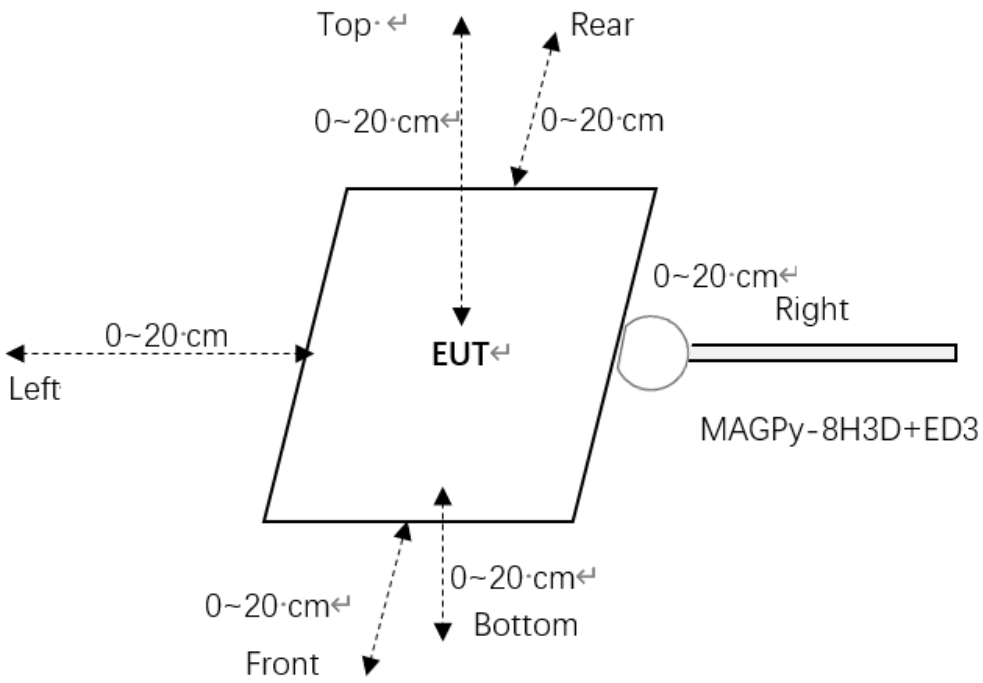
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f^2)	<6
30-300	61.4	0.163	1.0	<6
300-1500			f/300	<6
1500-100000			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



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

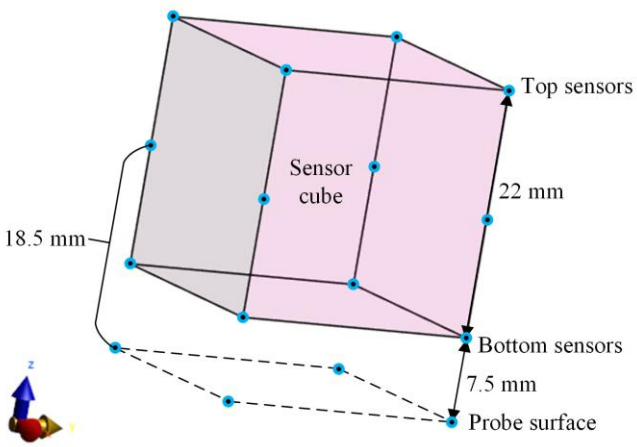
5.3 Test Procedures

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.

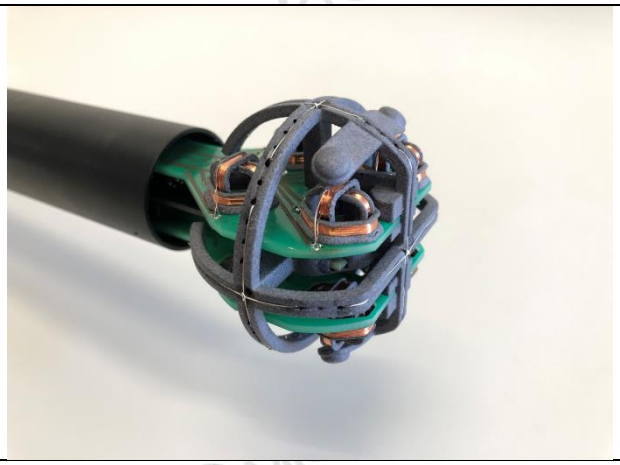
To measure the 0 cm H-filed, the probe tip mode is used. The total H-field at the tip-surface $H_{tip-surface}$ can be extrapolated using the total H-field measured at the top and bottom sensors, H_{top} and H_{bottom}, as well as the normalized H-field gradient G_n. The field extrapolation formula is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

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



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/monopple(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-filed: 0.08-2000 V/m H-filed: 0.1-3200 A/m
Probe level response	E-filed: ±1dB H-field: ±1dB
linearity error	E-filed: ±0.3dB H-field: ±0.3dB
Isotropy	E-filed: ±0.8dB H-field: ±0.6dB

5.5 Test results

All client power has been assessed (1%,50%, 99%), and the 1% battery status of client device was the worst.
Test condition 1: Mode7 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)

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	1.174	1.63	88.96%
Left	0.421		
Right	1.450		
Front	1.092		
Rear	1.229		
Bottom	0.571		

Test condition 2: Mode7 operating mode with client device (1 % battery status of client device)
- Test distance: 2cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	1.056	1.63	80.06%
Left	0.379		
Right	1.305		
Front	0.983		
Rear	1.106		
Bottom	0.514		

Test condition 2: Mode7 operating mode with client device (1 % battery status of client device)
- Test distance: 4cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.85	1.63	64.05%
Left	0.30		
Right	1.04		
Front	0.79		
Rear	0.88		
Bottom	0.41		

Test condition 2: Mode7 operating mode with client device (1 % battery status of client device)
- Test distance: 6cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.355	1.63	26.90%
Left	0.127		
Right	0.438		
Front	0.330		
Rear	0.372		
Bottom	0.173		

Test condition 2: Mode7 operating mode with client device (1 % battery status of client device)
- Test distance: 8cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.213	1.63	16.14%
Left	0.076		
Right	0.263		
Front	0.198		
Rear	0.223		
Bottom	0.104		

Test condition 2: Mode7 operating mode with client device (1 % battery status of client device)
- Test distance: 10cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.128	1.63	9.68%
Left	0.046		
Right	0.158		
Front	0.119		
Rear	0.134		
Bottom	0.062		

Test condition 2: Mode7 operating mode with client device (1 % battery status of client device)
- Test distance: 12cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.077	1.63	5.81%
Left	0.027		
Right	0.095		
Front	0.071		
Rear	0.080		
Bottom	0.037		

Test condition 2: Mode7 operating mode with client device (1 % battery status of client device)
- Test distance: 14cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.046	1.63	3.49%
Left	0.016		
Right	0.057		
Front	0.043		
Rear	0.048		
Bottom	0.022		

Test condition 2: Mode7 operating mode with client device (1 % battery status of client device)
- Test distance: 16cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.028	1.63	2.09%
Left	0.010		
Right	0.034		
Front	0.026		
Rear	0.029		
Bottom	0.013		

Test condition 2: Mode7 operating mode with client device (1 % battery status of client device)
- Test distance: 18cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.010	1.63	1.26%
Left	0.004		
Right	0.012		
Front	0.009		
Rear	0.010		
Bottom	0.005		

Test condition 2: Mode7 operating mode with client device (1 % battery status of client device)
- Test distance: 20cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.010	1.63	0.75%
Left	0.004		
Right	0.012		
Front	0.009		
Rear	0.010		
Bottom	0.005		

Test condition 1: Mode5 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)

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	1.291	1.63	97.85%
Left	0.463		
Right	1.595		
Front	1.201		
Rear	1.352		
Bottom	0.628		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)
- Test distance: 2cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	1.162	1.63	88.07%
Left	0.417		
Right	1.436		
Front	1.081		
Rear	1.217		
Bottom	0.565		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)
- Test distance: 4cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.93	1.63	70.45%
Left	0.33		
Right	1.15		
Front	0.86		
Rear	0.97		
Bottom	0.45		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)
- Test distance: 6cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.65	1.63	49.32%
Left	0.23		
Right	0.80		
Front	0.61		
Rear	0.68		
Bottom	0.32		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)
- Test distance: 8cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.390	1.63	29.59%
Left	0.140		
Right	0.482		
Front	0.363		
Rear	0.409		
Bottom	0.190		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)
- Test distance: 10cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.312	1.63	23.67%
Left	0.112		
Right	0.386		
Front	0.291		
Rear	0.327		
Bottom	0.152		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)
- Test distance: 12cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.187	1.63	14.20%
Left	0.067		
Right	0.232		
Front	0.174		
Rear	0.196		
Bottom	0.091		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)
- Test distance: 14cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.112	1.63	8.52%
Left	0.040		
Right	0.139		
Front	0.105		
Rear	0.118		
Bottom	0.055		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)
- Test distance: 16cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.067	1.63	5.11%
Left	0.024		
Right	0.083		
Front	0.063		
Rear	0.071		
Bottom	0.033		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)
- Test distance: 18cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.040	1.63	3.07%
Left	0.015		
Right	0.050		
Front	0.038		
Rear	0.042		
Bottom	0.020		

Test condition 2: Mode5 operating mode with client device (1 % battery status of client device)
- Test distance: 20cm

Probe Position	H–field (A/m)		
	Measurement	Limit	Percentage (%)
Z axis	0.024	1.63	1.84%
Left	0.009		
Right	0.030		
Front	0.023		
Rear	0.025		
Bottom	0.012		

Photographs of the Test Setup

See the Appendix - Test Setup.

Photographs of the EUT

See the Appendix - EUT Photos.

Statement

1. This report is invalid without the seal and signature of the laboratory.

2. The test results of this report are only responsible for the samples submitted.Client shall be responsible for representativeness of the sample and authenticity of the material.
3. The report shall not be partially reproduced without the written consent of the Laboratory.
4. This report is invalid if transferred, altered or tampered with in any form without authorization.
5. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

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