

FCC Test Report

Report No. : 1812C50072212502

Applicant : JMTEK TECHNOLOGY(ZHONGSHAN) CO.,

. LTD

3F B3 and 3F B4 Chuangzhi Science

Address Park, No.22 Xingpu Avenue East, Huangpu

Town, Zhongshan City, Guangdong Province,

China

Product Name : Wireless Power Bank

Report Date : 2025-06-04

Shenzhen Anbotek Compliance Laboratory Limited





Contents

1. General Information	
1.1. Client Information	
1.2. Description of Device (EUT)	
1.3. Auxiliary Equipment Used During Test	
1.4. Description of Test Modes	
1.5. Test Equipment List	
1.6. Measurement Uncertainty	
1.7. Description of Test Facility	
1.8. Disclaimer	
Measurement and Result	
2.1. Requirements	
2.2. Test Setup	
2.3. Test Procedure	
2.4. Test Result	
APPENDIX I TEST SETUP PHOTOGRAPH	
APPENDIX II EXTERNAL PHOTOGRAPH	
APPENDIX III INTERNAL PHOTOGRAPH	17



TEST REPORT

JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD Applicant

Manufacturer JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD

Product Name Wireless Power Bank

Model No. MPB800

Trade Mark N/A

Input (USB-C): 5V-3A, 9V-2A

Output: Total 22.5W

USB-C Output: 5V-3A, 9V-2.2A, 12V-1.67A

Rating(s) Wireless Output: 15W Max

> USB-C+Wireless Output: 5V-3A Battery capacity: DC 3.90V, 5000mAh

Test Standard(s) : FCC Part 1.1310, 1.1307(b)

Test Method(s) : KDB 680106 D01 Wireless Power Transfer v04

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 1.1307 & KDB680106 D01 requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt 2025-03-03

Date of Test 2025-03-03 to 2025-03-12

Prepared By

(Cecilia Chen)

Approved & Authorized Signer

(Hugo Chen)

Shenzhen Anbotek Compliance Laboratory Limited

Hotline

Code:AB-RF-05-b

400-003-0500 www.anbotek.com



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	2025-06-04

Code:AB-RF-05-b

www.anbotek.com



1. General Information

1.1. Client Information

Applicant	:	JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD		
Address :		3F B3 and 3F B4 Chuangzhi Science Park, No.22 Xingpu Avenue East, Huangpu Town, Zhongshan City, Guangdong Province, China		
		Huangpu Town, Zhongshan City, Guanguong Province, China		
Manufacturer	:	JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD		
Address		BF B3 and 3F B4 Chuangzhi Science Park, No.22 Xingpu Avenue East,		
Address	•	Huangpu Town, Zhongshan City, Guangdong Province, China		
Factory	:	JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD		
A -1 -1		3F B3 and 3F B4 Chuangzhi Science Park, No.22 Xingpu Avenue East,		
Address	-	Huangpu Town, Zhongshan City, Guangdong Province, China		

1.2. Description of Device (EUT)

Product Name	:	Wireless Power Bank
Model No.	:	MPB800
Trade Mark	:	N/A
Test Power Supply	:	AC 120V/60Hz for Adapter; DC 3.90V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
RF Specification		
Operation Frequency	:	112kHz~205kHz
Modulation Type	:	ASK
Antenna Type	:	Inductive loop coil Antenna
Remark: 1) All of the F	RF s	specification are provided by customer. 2) For a more detailed features

description, please refer to the manufacturer's specifications or the User's Manual.

Hotline 400-003-0500 www.anbotek.com



1.3. Auxiliary Equipment Used During Test

Title Manufacturer		Model No.	Serial No.	
Apple Phone	Apple	iPhone 12	DNPDJC7T0DYF	

1.4. Description of Test Modes

Pretest Modes	Descriptions
TM1	Adapter+WTP Mode (5W 1% Load) (AC 120V/60Hz for Adapter)
TM2	Adapter+WTP Mode (5W 50% Load) (AC 120V/60Hz for Adapter)
TM3	Adapter+WTP Mode (5W 99% Load) (AC 120V/60Hz for Adapter)
TM4	WTP Mode (5W 1% Load) (DC 3.85V Battery inside)
TM5	WTP Mode (5W 50% Load) (DC 3.85V Battery inside)
TM6	WTP Mode (5W 99% Load) (DC 3.85V Battery inside)
TM7	WTP Mode (7.5W 1% Load) (DC 3.85V Battery inside)
TM8	WTP Mode (7.5W 50% Load) (DC 3.85V Battery inside)
TM9	WTP Mode (7.5W 99% Load) (DC 3.85V Battery inside)
TM10	WTP Mode (10W 1% Load) (DC 3.85V Battery inside)
TM11	WTP Mode (10W 50% Load) (DC 3.85V Battery inside)
TM12	WTP Mode (10W 99% Load) (DC 3.85V Battery inside)
TM13	WTP Mode (15W 1% Load) (DC 3.85V Battery inside)
TM14	WTP Mode (15W 50% Load) (DC 3.85V Battery inside)
TM15	WTP Mode (15W 99% Load) (DC 3.85V Battery inside)
TM16	Standby Mode

Note: When the product is charging, the WPT can only reach a maximum of 5W.

Hotline 400-003-0500 www.anbotek.com



1.5. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Electric and Magnetic field Analyzer	NARDA	EHP-200A	180ZX10202	2024-10-15	1 Year

1.6. Measurement Uncertainty

Magnetic Field Reading(A/m)	:	+/-0.04282(A/m)
Electric Field Reading(V/m)	:	+/-0.03679(V/m)

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.

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

1.7. Description of Test Facility

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

FCC-Registration No.: 279531

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 279531.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

Hotline



1.8. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
- 7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

Shenzhen Anbotek Compliance Laboratory Limited

Hotline 400-003-0500 www.anbotek.com

Code:AB-RF-05-b

Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China



2. Measurement and Result

2.1. Requirements

According to the item 5.2 Part 18 Wireless Power Transfer up to One-Meter Distance:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

- (1) The power transfer frequency is below 1 MHz.
- (2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
- (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)
- (4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).
- (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. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.
- (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.

Hotline 400-003-0500 www.anbotek.com



Limits For Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	lectric field strength (V/m) Magnetic field strength (A/m)		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	/	1	f/300	6					
1500-100,000	/	1	5	6					
	(B) Limits for Genera	l Population/Uncontrolle	d 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	/	1	f/1500	30					
1500-100,000	1	1	1.0	30					

F=frequency in MHz

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).

2.2. Test Setup

- 1) H-field data are taken along all three axes the device, from 0 cm to 20 cm, in 2 cm minimum increment measured from the edge of the device, with one axis coincident with the axis of the main coil.
- 2) "Large size" probes may prevent the measurement of E- and/or H-fields near the surface of the radiating structure (e.g., a WPT source coil), as in the example shown in Figure 1.

If the center of the probe sensing element is located more than 5 mm from the probe outer surface, the field strengths need to be estimated through modeling for those positions that are not reachable. The estimates may be done either via numerical calculation, or via analytic model: e.g., approximated formulas for circular coils, dipoles, etc., may be acceptable if it is shown that the model is applicable for the design parameters considered. A typical example is the use of a quasi-static approximation formula for a low-frequency magnetic field source.

These estimates shall include points spaced no more than 2 cm from each other. Thus, in the example of Figure 1, at least the estimates at 0 cm2 and 2 cm are required, while only one point would not be sufficient. In addition, the model needs to be validated through the probe measurements for the two closest points to the device surface, and with 2-cm increments, as indicated in Figure 1. In that example, the same model must also be applied to the 4 cm and 6 cm positions, and then compared with the measured data, for validation purposes. The validation is

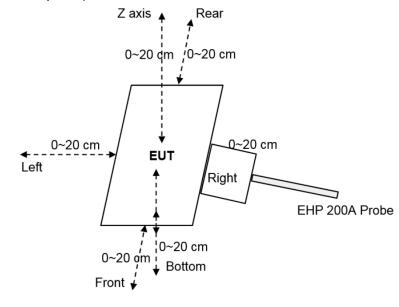
Shenzhen Anbotek Compliance Laboratory Limited



^{*=}Plane-wave equivalent power density



considered sufficient if a 30% agreement between the model and the (E- and/or H-field) probe measurements is demonstrated. If such a level of agreement cannot be shown, a more accurate model (and/or a smaller probe) shall be used.



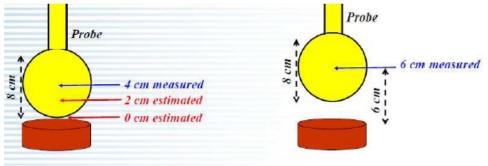


Figure 1

2.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at required test distance which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points
- (A, B, C, D, E) were completed.(A is the right, B is the back, C is the left, D is the front, and E is the top.)
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v04.

Remark; The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

Shenzhen Anbotek Compliance Laboratory Limited





2.4. Test Result

- 2.4.1. Equipment Approval Considerations item 5.2 Part 18 Wireless Power Transfer up to One-Meter Distance.
- (1) The power transfer frequency is below 1 MHz.
- The device operate in the frequency range 112kHz~205KHz.
- (2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
 - The maximum output power of the primary coil 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 surfaces of the transmitter and client device enclosures is in physical contact.
 - (4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).
 - The EUT is a Mobile exposure conditions
 - (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. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.
 - Conducted the measurement with the required distance and the test results please refer to the section 2.4.
 - (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.
 - The EUT is one radiating structure.

Hotline 400-003-0500 www.anbotek.com

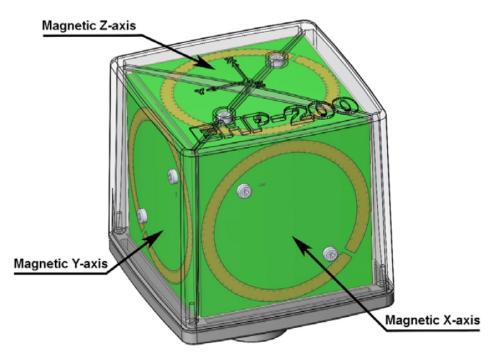


2.4.2. Estimated method for portable RF Exposure condition:

According to Calibration information and specification about EHP200A, The Probe EHP200A's sensitive elements center are 8mm below the external surface, and the dimensions is 92x92x109 mm. So the actual 0cm field strengths need to be estimated for the positions that are not reachable. The Extrapolated Value Calculation Method please Refer to below formula). And the result of test distance 2cm~20cm was measured value.

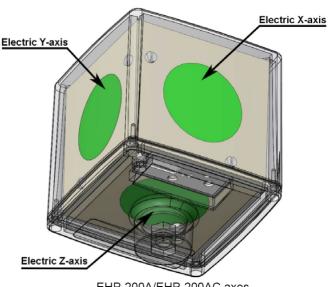
Probe	Length	Width	Height
	109mm	92mm	92mm





Shenzhen Anbotek Compliance Laboratory Limited



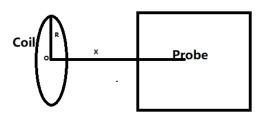


EHP-200A/EHP-200AC axes

The sensitive elements are located approximately 8 mm below the external surface

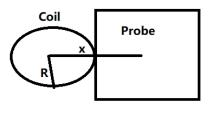
We use Biot-Savart formula theory to estimate the strength of the magnetic field that the measuring instrument cannot measure. According to Biot-Savart formula:

Top & Bottom Side:



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

Front, left, right & rear Side:



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

B: means H-field value;

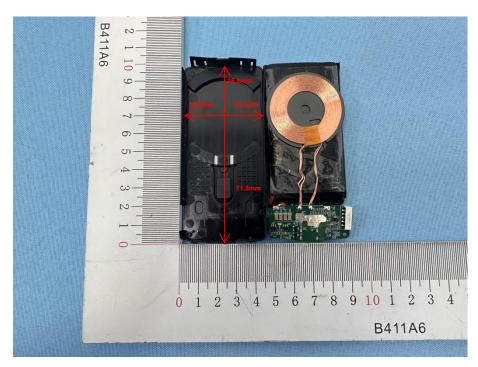
 μ_0 is space permeability; μ_0 =4 π *10⁻⁷;

I: A current element passing through a coil;

R: means the Radius of coil, the minimum R=38mm/2=19mm=0.019m, EUT photos shows below.

Shenzhen Anbotek Compliance Laboratory Limited





Position - Housing outer surface

Emitter to top: 1.0+0.3mm
Emitter to bottom: 5±0.3mm
Emitter to left: 22.5±1mm
Emitter to right: 22.5±1mm
Emitter to front: 71.5±1mm
Emitter to back: 28.5±1mm

Test distance: The distance from the sensing element of the probe to the edge of the device surface. **x**: means the evaluated point to the coil center (For top & bottom side: x=test distance; For other side: x=test distance+R)

N: Number of turns, According to provided "Antenna specification" files: N=10.

For validation purposes: If the value to show a **30% agreement** between the mode and the (E- and/or H-field) probe measurements for the two closest points to the device surface, and with 2cm increments. Then this extrapolation method is reasonable.

Note: The percent ratio of agreement is the difference between the estimated and measured values divided by the average of the estimated and measured values.

EUT is a loop/coil emitting structure, so E-field not required. Just recorded the H-field value.



2.4.3. Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310

Temperature:	25.1 °C	Humidity:	51 %	Atmospheric Pressure:	101 kPa
--------------	---------	-----------	------	-----------------------	---------

Between the edge/top surface of the charger and the center of probe

			H-Field S	trength				
Test distance	Battery power	Test Position Left	Test Position Right	Test Position Rear	Test Position Front	Test Position Top	Test Position Bottom	Limits Test (A/m)
0cm Estimated	1%	1.2955	1.2618	1.0473	0.9677	0.3287	0.3055	1.63
2cm Estimated	1%	0.2025	0.1973	0.1638	0.1513	0.1452	0.1349	1.63
	Max	timum Agree	ement for 2c	m Estimated	d: 29.93% (V	Vithin 30%)		
2cm Measured	1%	0.1498	0.1459	0.1211	0.1119	0.1074	0.0998	1.63
4cm Estimated	1%	0.0790	0.0771	0.0639	0.0591	0.0474	0.0439	1.63
	Max	imum Agree	ement for 4c	m Estimated	d: 29.98% (V	Vithin 30%)		
4cm Measured	1%	0.0585	0.0570	0.0473	0.0437	0.0351	0.0326	1.63
6cm	1%	0.0329	0.0321	0.0266	0.0246	0.0165	0.0153	1.63
8cm	1%	0.0226	0.0220	0.0182	0.0169	0.0100	0.0092	1.63
10cm	1%	0.0176	0.0171	0.0151	0.0131	0.0084	0.0065	1.63
12cm	1%	0.0165	0.0158	0.0137	0.0119	0.0061	0.0057	1.63
14cm	1%	0.0148	0.0136	0.0111	0.0098	0.0052	0.0052	1.63
16cm	1%	0.0131	0.0111	0.0099	0.0084	0.0048	0.0049	1.63
18cm	1%	0.0125	0.0088	0.0082	0.0079	0.0045	0.0042	1.63
20cm	1%	0.0109	0.0074	0.0068	0.0071	0.0037	0.0036	1.63

Note:

- (1) Position E is top side.
- (2) All the situation (full load, half load and empty load) has been tested, only the worst situation (full load 15W) was recorded in the report.
- (3) All three axes the device has been tested, only the worst results reported.
- (4) All positions have been tested, only display photos of Position E and A in the report.

Hotline 400-003-0500 www.anbotek.com



APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_MPE

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

 End of Report	

Shenzhen Anbotek Compliance Laboratory Limited

Hotline 400-003-0500 www.anbotek.com