

Report No.: 18220WC20136302 FCC ID: 2APU5-WMP300B Page 1 of 12

# **FCC TEST REPORT**

Client Name : JMTek Industries( Shenzhen) Co., Ltd

14G, Innovation Tech Building, Quanzhi Science and

Address : Technology innovation Park, ShaJing Street, Baoan

District, ShenZhen, 518104, China

Product Name : Mouse Pad Wireless Charger

Date : Jul. 08, 2022





Report No.: 18220WC20136302 FCC ID: 2APU5-WMP300B

# **Contents**

1. (	General Information	4
	1.1. Client Information	4
	1.2. Description of Device (EUT)	4
	1.3. Auxiliary Equipment Used During Test	5
	1.4. Test Equipment List	5
	1.5. Measurement Uncertainty	5
	1.6. Description of Test Facility	5
2. I	Measurement and Result	6
	2.1. Requirements	6
	2.2. Test Setup	7
	2.3. Test Procedure	7
	2.4. Test Result	7
ΔΡ	PENDLY I TEST SETUP PHOTOGRAPH	10



Report No.: 18220WC20136302 FCC ID: 2APU5-WMP300B

# TEST REPORT

JMTek Industries( Shenzhen) Co., Ltd Applicant

JMTek Industries( Shenzhen) Co., Ltd Manufacturer

Product Name Mouse Pad Wireless Charger

Model No. WMP300B, WMP300G

N.A Trade Mark

Input: 5V-2A, 9V-2A Rating(s)

Wireless Output: 5W/7.5W/10W/15W(Max)

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

Test Method(s) KDB680106 D01 RF Exposure Wireless Charging Apps v03

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	Jun. 25, 2022
Date of Test	Jun. 25~Jul. 06, 2022
Prepared By	Nian xiu Chen
k Anbotek Anbotek Anbotek Anbotek	(Nianxiu Chen)
Approved & Authorized Signer	(ingkong)in
tek obotek Anbo k otek Anbon	(Kingkong Jin)

Shenzhen Anbotek Compliance Laboratory Limited

Code: AB-RF-05-a Hotline

400-003-0500 www.anbotek.com



Report No.: 18220WC20136302 FCC ID: 2APU5-WMP300B Page 4 of 12

# 1. General Information

## 1.1. Client Information

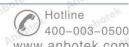
Applicant	: JMTek Industries( Shenzhen) Co., Ltd
Address	14G, Innovation Tech Building, Quanzhi Science and Technology innovation Park, ShaJing Street, Baoan District, ShenZhen, 518104, China
Manufacturer	: JMTek Industries( Shenzhen) Co., Ltd
Address	14G, Innovation Tech Building, Quanzhi Science and Technology innovation Park, ShaJing Street, Baoan District, ShenZhen, 518104, China
Factory	: JMTek Industries( Shenzhen) Co., Ltd
Address	14G, Innovation Tech Building, Quanzhi Science and Technology innovation Park, ShaJing Street, Baoan District, ShenZhen, 518104, China

# 1.2. Description of Device (EUT)

Product Name	:	Mouse Pad Wireless Charger	Anbotek Anbotek Anbotek Anb				
Model No.	:	WMP300B, WMP300G (Note: All samples are the san color, so we prepare "WMP30	ne except the model number and appearance 0B" for test only.)				
Trade Mark	:	N.A. Anborek	Anbotek Anbotek Anbotek Anbotek				
Test Power Supply	:	: AC 120V, 50Hz for adapter					
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)					
	:	Operation Frequency:	110.1-205KHz				
		Modulation Type:	FSK Anborek				
Product Description		Antenna Type:	Inductive loop coil Antenna				
		Antenna Gain(Peak):	0 dBi (Provided by customer)				
		Adapter:	N/A Anbotek Anbotek Anbotek				

**Remark:** 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Shenzhen Anbotek Compliance Laboratory Limited





Report No.: 18220WC20136302 FCC ID: 2APU5-WMP300B Page 5 of 12

#### 1.3. Auxiliary Equipment Used During Test

Adapter	:	Model: MDY-11-EX
		Input: 100-240V~50/60Hz, 0.7A
		Output: 5V=3A/ 9V=3A/ 12V=2.25A/ 20V=1.35A/ 11V=3A Max
Mobile Phone		iPhone 12

#### 1.4. Test Equipment List

×	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
	Inbe	Electric and Magnetic field Analyzer	NARDA	EHP-200A	180ZX10202	Nov. 12, 2021	1 Year

### 1.5. Measurement Uncertainty

Magnetic Field Reading(A/m)	:	+/-0.04282(A/m)	Aupor	Ar. abotek	Anboten
Electric Field Reading(V/m)	:	+/-0.03679(V/m)	Anbo.	Anbotek.	Aupole,

### 1.6. Description of Test Facility

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

#### FCC-Registration No.: 184111

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. 184111.

#### ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. 518102

Code:AB-RF-05-a

Hotline 400-003-0500 www.anbotek.com



Report No.: 18220WC20136302 FCC ID: 2APU5-WMP300B

## 2. Measurement and Result

### 2.1. Requirements

According to the item 5.b) of KDB 680106 D01v03:

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

- 1) Power transfer frequency is less that 1 MHz
- 2) Output power from each primary coil is less than or equal to 15 watts.
- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
- 4) Client device is inserted in or placed directly in contact with the transmitter
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
- 6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Limits For Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
	(A) Limits for Occ	cupational/Controlled Ex	posures	
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	1	I	f/300	6
1500-100,000	1	1	5	6
	(B) Limits for Genera	l Population/Uncontrolle	ed Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	1	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).



Hotline

Code: AB-RF-05-a

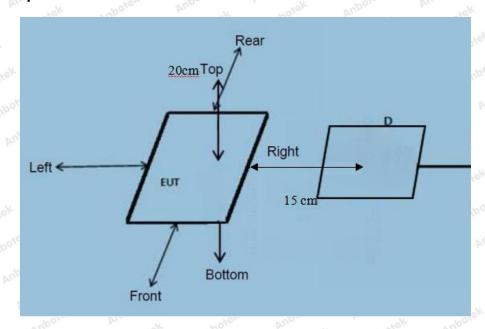
400-003-0500 ww.anbotek.com

<sup>=</sup>Plane-wave equivalent power density



Report No.: 18220WC20136302 FCC ID: 2APU5-WMP300B Page 7 of 12

#### 2.2. Test Setup



Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT.

#### 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 v03. Remark;

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

#### 2.4. Test Result

- 2.4.1. Equipment Approval Considerations item 5.b of KDB 680106 D01 v03.
- 1) Power transfer frequency is less that 1 MHz
- The device operate in the frequency range 110.1-205KHz.
- 2) Output power from each primary coil is less than 15 watts
  - The maximum output power of the primary coil is 15W.

Shenzhen Anbotek Compliance Laboratory Limited





Report No.: 18220WC20136302 FCC ID: 2APU5-WMP300B Page 8 of 12

- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
  - The transfer system including a charging system with only single primary coils is to detect and allow only between individual pairs of coils.
- 4) Client device is inserted in or placed directly in contact with the transmitter
- Client device is placed directly in contact with the transmitter.
  - 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
    - The EUT is a Mobile exposure conditions
- 6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.
- Conducted the measurement with the required distance and the test results please refer to the section 2.4.



Report No.: 18220WC20136302 FCC ID: 2APU5-WMP300B Page 9 of 12

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

Temperature:	22.5°C	Relative Humidity:	49 %
Pressure:	1012 hPa	Test Voltage:	AC 120V, 50Hz for adapter

#### E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
1%	110.1-205	0.33	0.41	0.37	0.37	0.48	307	614
50%	110.1-205	1.27	1.72	1.19	1.31	1.48	307	614
99%	110.1-205	2.34	2.79	2.35	2.31	2.78	307	614
Stand-by	110.1-205	0.26	0.42	0.27	0.26	0.37	307	614

#### H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

۳.	y v		LTV 6.13		- 675				677
n	Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
-	1%	110.1-205	0.028	0.050	0.056	0.040	0.050	0.815	1.63
375	50%	110.1-205	0.22	0.31	0.22	0.18	0.35	0.815	1.63
	99%	110.1-205	0.34	0.50	0.39	0.22	0.21	0.815	1.63
, e	Stand-by	110.1-205	0.38	0.18	0.29	0.38	0.25	0.815	1.63



Report No.: 18220WC20136302 FCC ID: 2APU5-WMP300B Page 10 of 12

# **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Photo of MPE Measurement



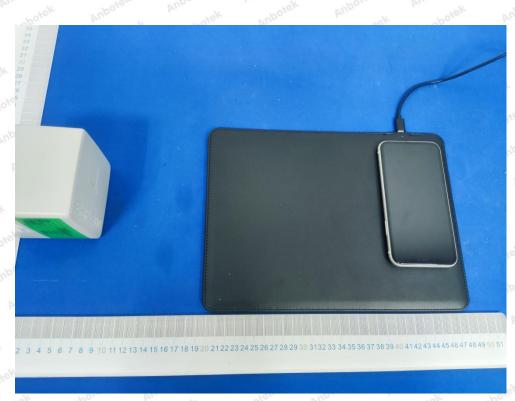


#### Shenzhen Anbotek Compliance Laboratory Limited



Report No.: 18220WC20136302 FCC ID: 2APU5-WMP300B Page 11 of 12





#### Shenzhen Anbotek Compliance Laboratory Limited

www.anbotek.com



Report No.: 18220WC20136302 FCC ID: 2APU5-WMP300B Page 12 of 12



----- End of Report -----