

Date

 Report No.: 18220WC10086302
 FCC ID:2APU5-WPC15
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FCC TEST REPORT

Client Name	: JMTek Industries(Shenzhen) Co., Ltd
	14G, Innovation Tech Building, Quanzhi Science and
Address	: Technology innovation Park, ShaJing Street, Bao'an District, ShenZhen, China
Product Name	: Magnetic Wireless Charger

: Jun. 02, 2021



Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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Applicant	: JMTek Industries(Shenzhen) Co., Ltd
Manufacturer	: JMTek Industries(Shenzhen) Co., Ltd
Product Name	: Magnetic Wireless Charger
Model No.	: WPC15, WPC15B, WPC15W
Trade Mark	N.A more more state
Rating(s)	Input: 5V===2A/9V===2A/12V===1.5A Wireless output: 5W, 7.5W, 10W, 15W

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 Date of Test

Prepared By

May 06, 2021 May 06~May 22, 2021

Jane Flla

(Ella Liang)

Approved & Authorized Signer

Kingkungfin

(Kingkong Jin)

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com

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1. General Information

1.1. Client Information

Applicant	: JMTek Industries(Shenzhen) Co., Ltd	YUT POX
Address	14G, Innovation Tech Building, Quanzhi Science and Technology innov Park, ShaJing Street, Bao'an District, ShenZhen, China	/ation
Manufacturer	: JMTek Industries(Shenzhen) Co., Ltd	4
Address	14G, Innovation Tech Building, Quanzhi Science and Technology innov Park, ShaJing Street, Bao'an District, ShenZhen, China	/ation
Factory	: JMTek Industries(Shenzhen) Co., Ltd	nbotek
Address	14G, Innovation Tech Building, Quanzhi Science and Technology innov Park, ShaJing Street, Bao'an District, ShenZhen, China	/ation

1.2. Description of Device (EUT)

: M	agnetic Wireless Charge	r Anbotek Anbot Anbotek Anbotek Anbotek
: (N	lote: All samples are th	5W ne same except the appearance, so we prepare
: N	A Andrew Andrew	otek Anboten Anbotek Anbotek An
: A	C 120V, 60Hz for adapte	r/ AC 240V, 60Hz for adapter
: 1-	2-1(Normal Sample), 1-2	2-2(Engineering Sample)
0	peration Frequency:	110.1-205KHz
. M	odulation Type:	FSK, ASK
A	ntenna Type:	Inductive loop coil Antenna
A	ntenna Gain(Peak):	0 dBi
	: W (N "V : N : A 1- 0 M : A	WPC15" for test only.)

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

2) Both modulation types have been tested, and only the worst-case data(FSK) is shown in the report.

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1.3. Auxiliary Equipment Used During Test

Adapter	: M/N: A2014 Input: AC 100-240V, 0.75A, 50-60Hz Output: 5V=3A,9V=2A,12V=3A, 20V=1.5A	otek
Wireless charging load	: M/N: CD2577 Power: 5W/7.5W/10W/15W	nboro

1.4. Test Equipment List

	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
	Anb	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	3 Year
ŀ-	2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2020	3 Year
die	3	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2020	3 Year

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	IOK P	nboten	Andshotek	Anbotek
		Ur = 3.8 dB (Vertical)				Anbote
		inbotek Anbo he	Anbotek	Anboro	K sbotek	Anb
Conduction Uncertainty	:	Uc = 3.4 dB	Anbotek	Anbore	*ek pin	K-

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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 registed 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, September 30, 2020.

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, September 30, 2020.

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

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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.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
	(A) Limits for Occ	upational/Controlled Ex	posures	
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	1	f/300	6
1500-100,000	1	1	5	6
	(B) Limits for Genera	I Population/Uncontrolle	ed Exposure	

Limits For Maximum Permissible Exposure (MPE)

*(100) 0.3-1.34 614 1.63 30 *(180/f²) 1.34-30 824/f 2.19/f 30 30-300 27.5 0.073 0.2 30 1 1 300-1500 f/1500 30 1500-100,000 1 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).

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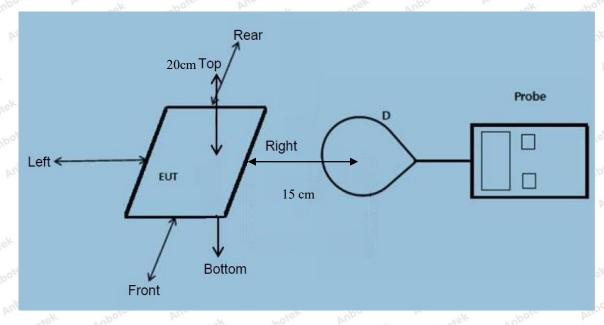
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2.2. Test Setup



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.

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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.

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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, 60Hz for adapter

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

-			-					100
Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
-194	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	And A	Botek	Cibote	D	otek E	(V/m)	(V/m)
Annobotek	Anboten	And	Anboth	anbc	rek bi	abotek	Anboter	Antosotek
1%	110.1-205	0.32	0.42	0.37	0.41	0.52	307	614
egk pro	tek Anbore	Ano	Hatek	unbotek	Anboi	All abotek	Anboter	Ant
rok pr	botek Ant	oter pr	hotek	Anbotek	Anbor	K nobo	rek Anbore	K Ant
50%	110.1-205	1.42	1.87	1.35	1.52	1.65	307	614
Anbors	Allabotek	Anboten	Anbe	4 Anbo	ek Anb	or p	abotek	nboten
Anbo	p	Anboten	Ano	otek ar	potek I	upo, rek	A. abotek	Anboter
99%	110.1-205	2.44	2.67	2.47	2.41	2.88	307	614
lek Aupo	All All	ptek An	poten p	inbc stek	Anbotek	Anbore	ek sbote	s Anbo
botek An	bound bu	Abotek.	Anboten	Anotek	Anbote	Anbo	sek priv	stek p
Stand-by	110.1-205	0.36	0.53	0.38	0.36	0.50 🕅	307	614
Anbotek	Anbore	An	Anboter	Anbo	otek	nbotek	Anboit A	abotek

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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)
stek Anb	stek Aupo	rek pr	obotek	Anboton	Andhotek	Anbotek	Aupo	K Pr
1%	110.1-205	0.028	0.050	0.056	0.040	0.050	0.815	1.63
notek		Anboit		Anboter	Ano	otek An	potek Ant	o' tek
Anthotek	Anbotek	Anbo	hishot	ek Anbo	to Pro	hotek	Anbotek	inbo. stek
50%	110.1-205	0.38	0.35	0.37	0.37	0.54	0.815	1.63
Ann	tek Anboth	Anbe	. tek	abotek	Anbore	Anthotek	Anbotek	Anbo
to Ant	botek Ant	otek A	ibu stek	Anbotek	Anbore	k hot	k Anbote	P.C
99%	110.1-205	0.55	0.64	0.53	0.46	0.47	0.815	1.63
Anboter		Anbotek		K stool	ek Anb	oter Ani	Lotek A	nbotek
Anboren	Anusbotek	Anbotek	Aupon	Jek on	potek I	nboten	And hotek	Anbotek
Stand-by	110.1-205	0.51	0.33	0.43	0.57	0.41	0.815	1.63
ek Anbo	en Aubr	stek bo		inbo'	Anobotek	Anboten	Anu	ant

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

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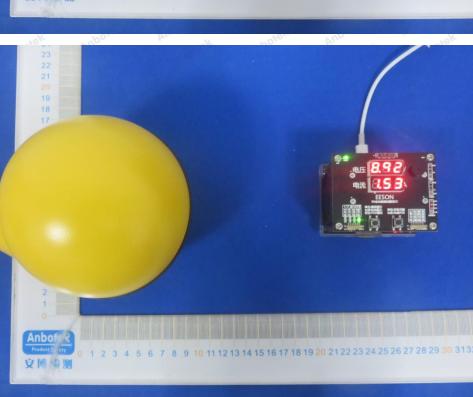
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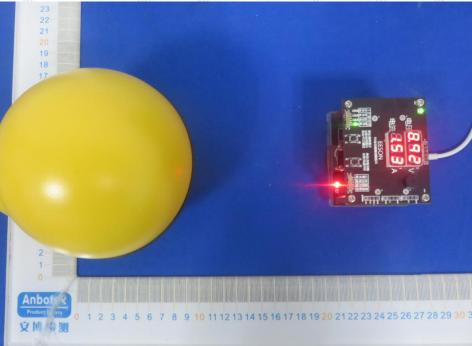


Photo of MPE Measurement

APPENDIX I -- TEST SETUP PHOTOGRAPH

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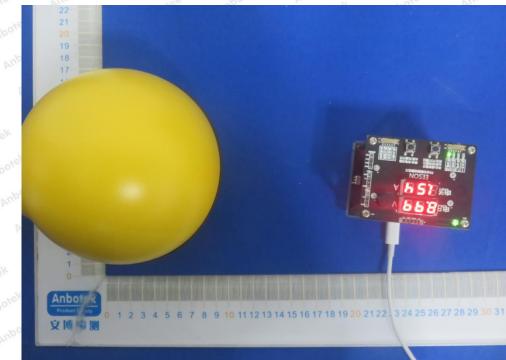


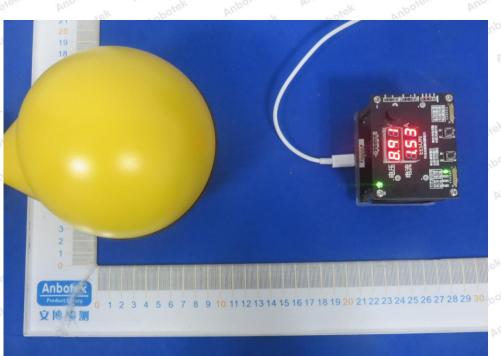
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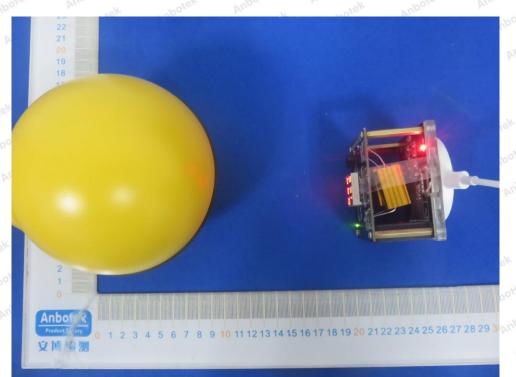
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