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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 : 3 in 1 Wireless Charger

Date : May 10, 2022

Shenzhen Anbotek Compliance Laboratory Limited
Approved



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TEST REPORT

Applicant : JMTek Industries(Shenzhen) Co., Ltd

Manufacturer : JMTek Industries(Shenzhen) Co., Ltd

Product Name : 3 in 1 Wireless Charger

Model No. : WPC20, WPC20B, WPC20W, WPC20BAM

Trade Mark : N.A.

Input: DC 5V/2A, 9V/4A

Rating(s) Output1: 15W(Max)
Output2: 3W (Max)

Output3: 10W(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 Apr. 20, 2022

Date of Test Apr. 20~May 06, 2022

Apr. 20~May 06, 2022

Prepared By _____(TuTu Hong)

Approved & Authorized Signer

(Kingkong Jin)



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1. General Information

1.1. Client Information

- AP		76, 20, 77 PO.
Applicant	:	JMTek Industries(Shenzhen) Co., Ltd
Address	:	14G, Innovation Tech Building, Quanzhi Science and Technology innovation Park, ShaJing Street, Bao'an District, ShenZhen, China
Manufacturer	:	JMTek Industries(Shenzhen) Co., Ltd
Address	:	14G, Innovation Tech Building, Quanzhi Science and Technology innovation Park, ShaJing Street, Bao'an District, ShenZhen, China
Factory	:	JMTek Industries(Shenzhen) Co., Ltd
Address	:	14G, Innovation Tech Building, Quanzhi Science and Technology innovation Park, ShaJing Street, Bao'an District, ShenZhen, China

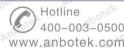
1.2. Description of Device (EUT)

Product Name	:	3 in 1 Wireless Charger	otek Anbotek Anbote Anbotek Anbote							
Model No.	:	WPC20, WPC20B, WPC (Note: All samples are the "WPC20" for test only.)	C20W, WPC20BAM ne same except the appearance color, so we prepare							
Trade Mark	:	N.A.	Anborek Anborek Anborek Anborek							
Test Power Supply	:	AC 120V, 60Hz for adap	AC 120V, 60Hz for adapter							
Test Sample No.	:	1-2-1(Normal Sample),	1-2-1(Normal Sample), 1-2-2(Engineering Sample)							
d	i:	Operation Frequency:	Phone/ Wireless charging load: 110.1-205KHz Watch: 336KHz							
Draduot		Modulation Type:	FSK							
Product Description		Antenna Type:	Inductive loop coil Antenna							
		Antenna Gain(Peak):	0 dBi Anbotek Anbotek Anbotek							
		Adapter:	N.A. Anbores Anborek Anborek Anborek							

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



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1.3. Auxiliary Equipment Used During Test

	2012		
P	Wireless charging	:	Manufacturer: Shenzhen Ouju Technology Co., Ltd.
	load		M/N: CD2577
			Power: 5W/7.5W/10W/15W
W.			Last Cal.: Oct. 26, 2020
			Cal. Interval: 1 Year
0	Apple Watch	:	M/N: WR-50M
N	Phone	:	Galaxy S20
	Adapter	:	M/N: MDY-11-EX
			Input: 100-240V-0.7A,50-60Hz
			Output: 5V3A,9V3A,12V2.25A,20V1.35A.11V3A

1.4. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Aupo V	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)	nbotek	Anbore	And	Anborek
Electric Field Reading(V/m)	:	+/-0.03679(V/m)	anbotek	Anbore	Alli-	Anborek



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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 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

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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
- 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 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	I	f/300	6							
1500-100,000	1	1	5	6							
	(B) Limits for Genera	l Population/Uncontrolle	ed Exposure	ş-							
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	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).



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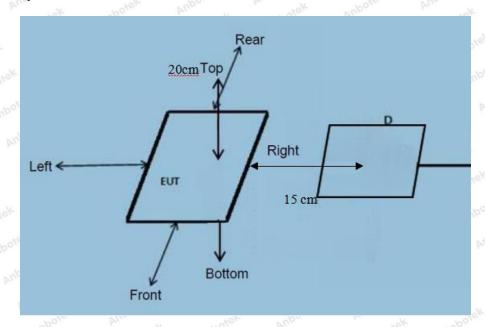
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⁼Plane-wave equivalent power density



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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 and 336KHz.
- 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

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%	110.1-205/336	0.35	0.44	0.39	0.40	0.52	307	614
50%	110.1-205/336	1.39	1.83	1.32	1.45	1.62	307	614
99%	110.1-205/336	2.47	2.87	2.48	2.43	2.89	307	614
Stand-by	110.1-205/336	0.38	0.53	0.37	0.36	0.50	307	614

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

Battery power	Frequency Range (KHz)	Test Positio n A	Test Positio n B	Test Position C	Test Positio n D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
1%	110.1-205/336	0.030	0.052	0.058	0.042	0.052	0.815	1.63
50%	110.1-205/336	0.39	0.48	0.38	0.38	0.55	0.815	1.63
99%	110.1-205/336	0.51	0.69	0.58	0.40	0.39	0.815	1.63
Stand-by	110.1-205/336	0.54	0.36	0.46	0.58	0.44	0.815	1.63

Note: All modulation and situation(full load, half load and empty load) has been tested, only the worst situation (full load 13W) was recorded in the report.

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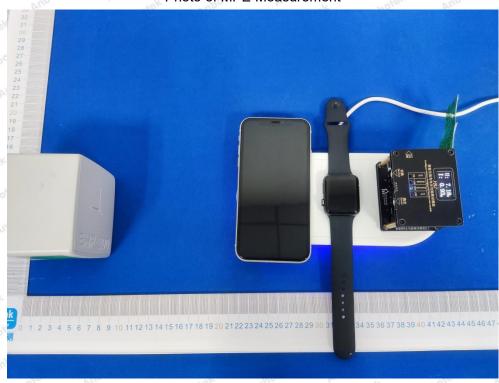
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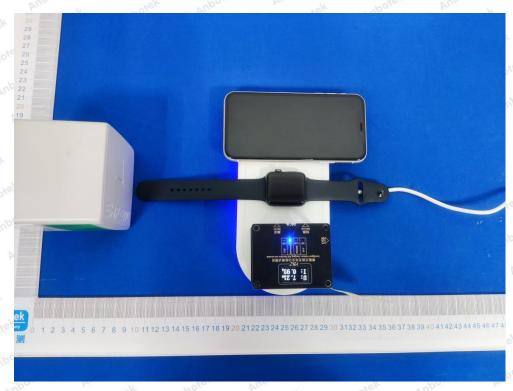


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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement



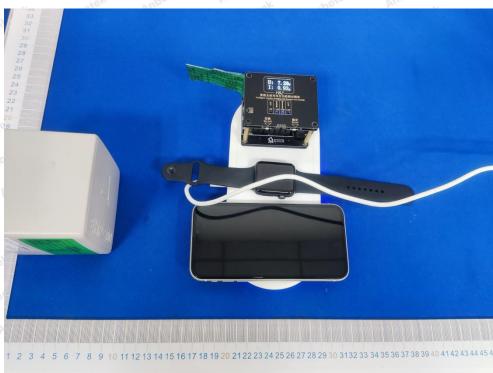


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