

FCC ID: 2AONA-WX07 Page 1 of 13 Report No.: SZAWW180705002-02

FCC TEST REPORT

For

Shenzhen Pilot Technology Co., Ltd

Wireless Charger

Model No.: WX07

Prepared For	otek	Shenzhen Pilot Technology Co., Ltd	
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Date of Receipt	notek	Jul. 05, 2018
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TEST REPORT

Applicant	Shenzhen Pilot Technology Co., Ltd
Manufacturer	Shenzhen Pilot Technology Co., Ltd
Product Name	· Wireless Charger
Model No.	· WX07
Trade Mark	N/A
Rating(s)	: Input: DC 5V, 2A/ DC 9V, 2A
	Output (Wireless): 5W/ 7.5W/ 10W

Anbole

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 Test

Jul. 05~Aug. 13, 2018

(Engineer / Oliay Yang)

(Supervisor / Calvin Liu)

Approved & Authorized Signer

(Manager / Tom Chen)

Shenzhen Anbotek Compliance Laboratory Limited Tel:(86)755-26066440 Fax:(86)755-26014772 <u>www.anbotek.com</u> Code:AB-RF-05-a

Prepared by

Reviewer

1. General Information

1.1. Client Information

Applicant	:	Shenzhen Pilot Technology Co., Ltd
Address	:	A1 Building, No.7 Shankeng Road, Shankeng Industrial Park, Shanxia Community, Pinghu Street, Longgang District, Shenzhen, China
Manufacturer	:	Shenzhen Pilot Technology Co., Ltd
Address	:	A1 Building, No.7 Shankeng Road, Shankeng Industrial Park, Shanxia Community, Pinghu Street, Longgang District, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Wireless Charger	hotek Anbotek Anbot tek nootek
Model No.	:	WX07	And anbotek Anbotek Anbotek Anbotek
Trade Mark	:	N/A Made And And	Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for adapter / AC	240V, 60Hz for adapter
Test Sample No.	:	S1, S2	otek Anbotek Anbotek
		Operation Frequency:	111-205KHz
		Number of Channel:	20 Channels
Product Description	:	Modulation Type:	MSK
Description		Antenna Type:	Loop Antenna
		Antenna Gain(Peak):	0 dBi

User's Manual.

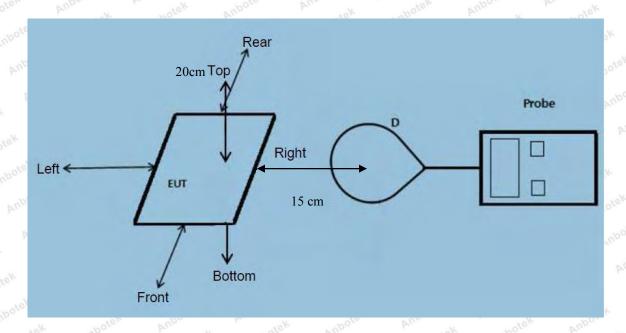
1.3. Auxiliary Equipment Used During Test

20	Adapter	:	Model: A2013 Input: 100-240V 50-60Hz 0.7A	P.
			Output: $3.6-6.5V == 3A/6.5-9V == 2A/9-12V == 1.5A$	
			tek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	
4	Mobile Phone	:	Samsung	at a

Anbotek Product Safety

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1.6. Description Of Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device

1.7. Test Equipment List

	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ie.	1	Magnetic field meter	NARDA	ELT-400	423623	Nov.17, 2017	1 Year

1.8. 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, July 31, 2017.

ISED-Registration No.: 8058A-1

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-1, June 13, 2016.

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 tim (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	/	5	6	
	(B) Limits for Genera	Population/Uncontrolle	ed 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	1	<mark>f</mark> /1500	30	
1500-100,000	1	1	1.0	30	

Limits For Maximum Permissible Exposure (MPE)

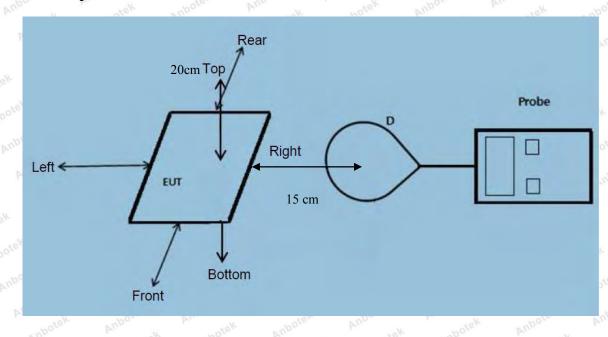
F=frequency in MHz

=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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2.2. Test Setup



Note:Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device

2.3. Test Procedure

1) The RF exposure test was performed in anechoic chamber.

2) The measurement probe was placed at test distance (15 cm) 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 from 111 KHz to 205 KHz

2) Output power from each primary coil is less than 15 watts

- The maximum output power of the primary coil is 10W.

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 Power Pack with Wireless Charger

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.

- The EUT E-Field Strength levels at 15 cm & The EUT H-Field Strength levels at 15 cm are less than 50% the MPE limit.

The test results please refer to the section 2.4.2

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

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

	wotek p	Frequency	Test	Test	Test	Test	Test	Reference	Limits	
P	Battery	Range	Position	Position	Position	Position	Position	Limit	Test	
	power	(KHz)	A	В	rek C Ant	otek D A	E	(V/m)	(V/m)	
14	And	Anbotek	Anbot	PUR PUR		Anboten	Anburgtek	Anbotek	Anboto	
8	1%	111~ 205	0.32	0.45	0.67	0.32	0.28	307	614	
0	tek Anbr	otek N	botek	unbotek	Anubotek		0.28	ek nbc	tek p	1
2	boton A	nb wotek	Anbotek	Anboro	Annobote	K Anbo	ren Aupo		nbotek	
	50%	111~ 205	1.52	1.23	1.56	1.38	1.31 M	307	614	
	Anbotek		Anbote	K Anbo	Ler Ant		Anbotek		Annbotek	
14	Anboter	K Ano	ek anb	otek pr	born	abotek	Anboten	Anbo otek	h. hipo	3
o'	99%	111~ 205	2.42	2.44	2.32	2.46	2.45	307	614	10
	potek Al	boten An	po stek	Anbotek	Anboto	Anu	ek Anbol	ek Anbo	- tek	
0	nbotek	Anboten	And	Anbotek	Anboto	Pu.	botek An	poten Ar	lbo otek	
	Stand-by	111~ 205	0.32	0.31	0.23	0.36	0.27	307	614	
i.	Annabotek	Anbotek	Anbote	stek on	potek p	nbote	Ann botek	Anbotek	Anbor	0



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п-гіеіс	i Strength at	15 cm sun	ounding ti	le EUT and		ove the top s	urface of the	EUI
Battery	Frequency Range	Test Position	Test Position	Test Position	Test Position	Test Position	Reference Limit	Limits Test
power	(KHz)	Α	B	K C Anbo	o ^M D M ¹	E	(A/m)	(A/m)
And	Anbotek	Anbou	ek An	otek Ar	poter	unbu otek	Anbotek	Anboto
1%	111~ 205	0.052	0.053	0.027	0.053	0.042	0.815	1.63
	otek Anb	stek An		hotek	Anbotek	Anboratel	A. abote	r P
oter And	notek p	nbotek	Anbor	An	Anbote	Anbo	181 194	otek
50%	111~ 205	0.12	0.14	0.15	0.34	0.56 MM	0.815	1.63
	Anbo	Anbotek		And	otek p	nbotek P	nbor P	abotek
Anboten	Anoshotel	Anbot	sk Anb	rek bu	abotek	Anbotek	Anbo	A. Anbo
99%	111~205	0.65	0.76	0.87	0.33	0.28	0.815	1.63
tek Anb	pten Anbi	otek h.		Anboto	Anu notel	Anbotel	Anbor	rek Pi
botek P	nboten A	nbc otek	Anbotek	Anbore	Ans br	stek Anbo	tek Anbe	tek
Stand-by	111~ 205	0.13	0.45	0.67	0.78	0.87	0.815	1.63
	Anbotek	Anbor	K phi	tek Ant	ote. A	nu notek	Anbotek	Anbore

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



APPENDIX I -- TEST SETUP PHOTOGRAPH

Anbote

Product Safety

Photo of MPE Measurement





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