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# **FCC TEST REPORT**

Client Name : Shenzhen Pilot Technology Co., Ltd

101 A1 Industrial Park, building a 1, No.7 Shankeng

Address : Road, Shanxia community, Pinghu Street, Longgang

District, Shenzhen City, China

Product Name : Wireless Charger

Date : Sept. 14, 2020

Shenzhen Anbotek Compliance Laboratory Limited
\*Approved\*



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## TEST REPORT

Applicant : Shenzhen Pilot Technology Co., Ltd

Manufacturer : Shenzhen Pilot Technology Co., Ltd

Product Name : Wireless Charger

Model No. : WX07Pro

Trade Mark : N.A.

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

Wireless output: 5W, 7.5W, 10W

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	Aug. 10, 2020
Date of Test	Aug. 10~26, 2020
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Prepared By	tek Anton Anbor All botek
anbotek Anbote Ans Anbotek Anbotek Anb	(Engineer / Dolly Mo)
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Reviewer	Anbotek Anbotek Anbo
	(Supervisor / Bibo Zhang)
	King Kong Jin
Approved & Authorized Signer	hbote Jub Jek abotek Anbo
Anbotek Anbotek Anbotek	(Manager / Kingkong Jin)

**Shenzhen Anbotek Compliance Laboratory Limited** 

Code: AB-RF-05-a





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## 1. General Information

## 1.1. Client Information

Applicant	: Shenzhen Pilot Technology Co., Ltd
Address	101 A1 Industrial Park, building a 1, No.7 Shankeng Road, Shanxia community, Pinghu Street, Longgang District, Shenzhen City, China
Manufacturer	Shenzhen Pilot Technology Co., Ltd
Address	101 A1 Industrial Park, building a 1, No.7, Shankeng Road, Shanxia community, Pinghu Street, Longgang District, Shenzhen City, China
Factory	Shenzhen Pilot Technology Co., Ltd
Address	101 A1 Industrial Park, building a 1, No.7, Shankeng Road, Shanxia community, Pinghu Street, Longgang District, Shenzhen City, China

## 1.2. Description of Device (EUT)

181 - 10.		r rojek Mpo	All All Alorest Mulb
Product Name	:	Wireless Charger	
Model No.	:	WX07Pro	Anbotek Anbotek Anbotek Anbotek Anbote
Trade Mark	:	N.A.	Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for ada	pter Anbotek Anbotek Anbotek Anbotek
Test Sample No.	:	1-2-1(Normal Sample),	1-2-1(Engineering Sample)
Product Description		Operation Frequency:	110.1-205KHz
		Modulation Type:	PWM
		Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	O'dBi Anbotek Anbotek Anbotek Anbotek

**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

Adapter	:	M/N: HNFCQC3024UU	Anbore	Arra
		Input: 100-240V~50/60Hz 0.8A Max		
		Output: 5V = 3A/ 9V = 2A(QC)/ 12V = 2A(QC)		

### 1.4. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Ant 1	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	3 Year
2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2017	3 Year
3	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2017	3 Year

#### 1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	work!
		Ur = 3.8 dB (Vertical)	Vic Pote
A.		botek Anbotek Anbotek Anbotek	Vur
Conduction Uncertainty	:	Uc = 3.4 dB	bir.



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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 27, 2019.

#### 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, March 07, 2019.

#### **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)

D0.	PS. 40	Y	D'A.	161 - VD.
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	I	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	I	I	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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Hotline

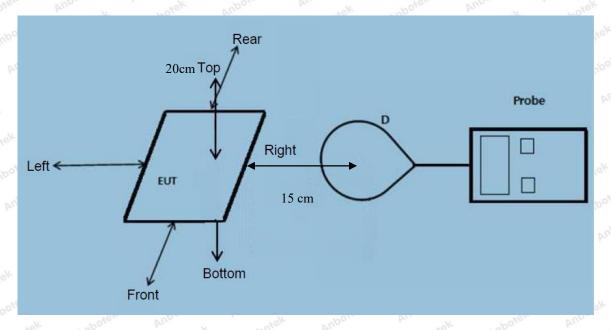
Hotline 400-003-0500 www.anbotek.com

<sup>\*=</sup>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
- 2) Output power from each primary coil is less than 15 watts
  - The maximum output power of the primary coil is 10W.

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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 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.
- Conducted the measurement with the required distance and the test results please refer to the section 2.4.2



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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:	22.4°C	Relative Humidity:	51%
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	Frequency	Test	Test	Test	Test	Test	Reference	Limits
VUL	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	ek A anb	otek B Ar	C	Dek	AIE OF BE	(V/m)	(V/m)
lek Mup,	Pub.	otek p	nbotek	Anbor	principolek	Anbore	Y VUD	lek b
1%	110.1~205	0.36	0.31	0.29	0.43	0.44	307	614
nbotek		Anbotek	Anbotek	Anboro	tek bir	potek	inpoten of the	
Anbotek.	Anbore.	Aur	Anbot	ak Anb	stek h	anborek	Aupore	Ann
50%	110.1~205	1.43	1.28	1.07	1.55	1.46	307	614
ek upc		K Anu	worek.	Anbotek	Mupo,	Ar. nbotel	Anbore	
rek po	ipotek Ani	ole. b	hotek	Anbotek	Vupo.	k up	piek Aupor	P
99%	110.1~205	2.15	2.33	2.64	2.28	2.41	307	614
Anboro		Anboten	Anbo	k Anbo	tek Vul	or b	abotek	
Aupo	anbotek.	Anboren	ok Pup	otek A	botek	Aupo, wek	anbotek	Anborer
Stand-by	110.1~205	0.75	0.62	0.66	0.45	0.58	307	614
Yupo,		otek Ar	poter	inbo	anbotek	Anboro	ok pore	



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#### H-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 (A/m)	Limits Test (A/m)
ek Ant	lotek Yupe	otek A.	nbotek	Anbore	Ann	Anbote	Vupp.	lek by
1%	110.1~205	0.037	0.045	0.052	0.044	0.057	0.815	1.63
	Anbotek	Aupo.	A. abotek	Anbore	ok Ann	notek p	obotek Ar	lpo.
Anshotek	Anbotek	Anbo	r nbo	lek Mup	O'E A	botek	Anborek	Aupo of
50%	110.1~205	0.28	0.33	0.31	0.42	0.47	0.815	1.63
K Ant	siek Anboi	ek Anb	Prok k	nabotek	Anbore.	And	Anbotek	An
Arr.	hotek Ar	potek	inpo.	Anbotek .	Anbore	V. V.	rek Anboi	SA
99%	110.1~205	0.40	0.34	0.29	0.34	0.47	0.815	1.63
	Anna	Anbotek	Yupo,	ek alb	stek Ar	poter A	rotek.	Anbotek
Anboren	Ans	Anbotel	Aupo	rek by	obotek	Aupoter	VUIS-	Anbore
Stand-by	110.1~205	0.22	0.38	0.29	0.35	0.30	0.815	1.63
Anbo	yen Anbo	*ek	botek	Anbore	bu, motek	Anbotek	AMD	J.

Note: (1)All the situation(full load, half load and empty load) has been tested, only the worst situation (full load, Wireless Output(10W)) was recorded in the report.

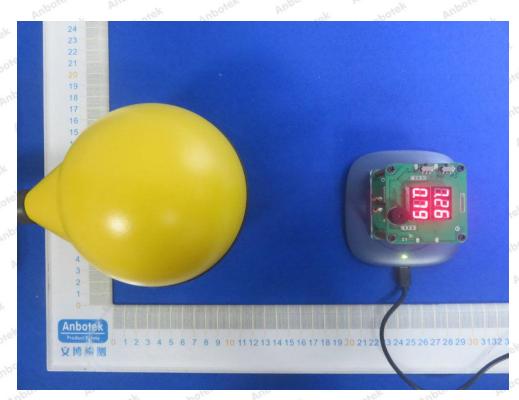


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## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Photo of MPE Measurement

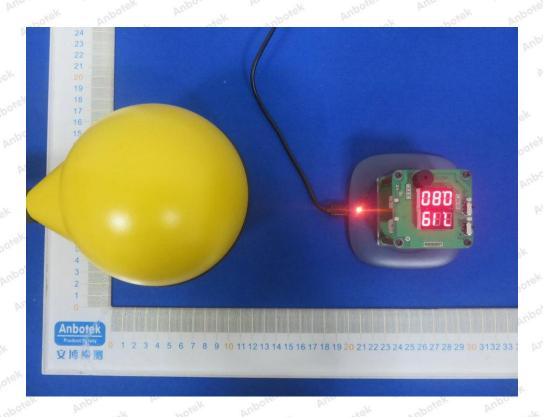




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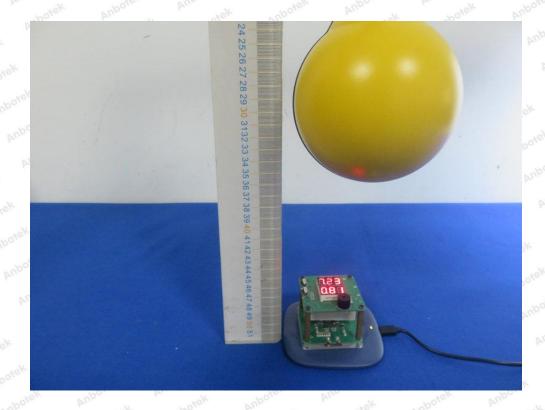








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