

Date

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FCC TEST REPORT

Client Name	Shenzhen Pilot Technology Co., Ltd
Address	 A1 Building, No.7 Shankeng Road, Shankeng Industrial Park, Shanxia Community, Pinghu Street, Longgang District, Shenzhen, China.
Product Name	: Power Bank

Oct. 22, 2019

Shenzhen Anbotek Compliance Laboratory Limited

Shenzhen Anbotek Compliance Laboratory Limited

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Code:AB-RF-05-a

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TEST REPORT

Applicant	Shenzhen Pilot Technology Co., Ltd
Manufacturer	Shenzhen Pilot Technology Co., Ltd
Product Name	: Power Bank
Model No.	: WX1710-PD
Trade Mark	oter : N.A. ex moter Anborer Annuale Annuale
	USB-C Input: DC 5V, 3.0A / DC 9V, 2.0A
	Micro Input: DC 5V, 2.0A / DC 9V, 2.0A
Rating(s)	USB-C Output: DC 5V, 3.0A / DC 9V, 2.0A / DC 12V, 1.5A
	USB-A Output: DC 5V, 3.0A / DC 9V, 2.0A / DC 12V, 1.5A
	Wireless output: 10W / 7.5W / 5W

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 Setp. 17, 2019 Date of Test Setp. 17~Oct. 09, 2019 compliance (100 wo Prepared By Anbotek (Engineer / Dolly Mo) 3hant Reviewer (Supervisor / Bibo Zhang) Sally zhang Approved & Authorized Signer (Manager / Sally Zhang) Shenzhen Anbotek Compliance Laboratory Limited Code:AB-RF-05-a Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community Hotline Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. 400-003-0500 Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com www.anbotek.com



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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.
Factory	:	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	:	Power Bank						
Model No.	:	WX1710-PD	otek Anborek Anborek Anborek Ant					
Trade Mark	:	N.A.	Anborek Anborek Anborek Anborek					
Test Power Supply	:	AC 120V, 60Hz for adapte	r / DC 3.7V Battery inside					
Test Sample No.	:	1-2-1(Normal Sample), 1-2	1-2-1(Normal Sample), 1-2-1(Engineering Sample)					
		Operation Frequency:	110.1-205KHz					
Product		Modulation Type:	QI Anborek Anborek Anborek Anborek					
Description	ŀ	Antenna Type:	Inductive loop coil Antenna					
		Antenna Gain(Peak):	0 dBi					

or the User's Manual.

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1.3. Auxiliary Equipment Used During Test

Adapter	: Manufacturer: Anker Innovations Limited
	M/N: A2013
	Input: 100-240V 50-60Hz 0.7A
	Output: 3.6-6.5V== 3A/ 6.5-9V== 2A/ 9-12V== 1.5A

1.4. Test Equipment List

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

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	mbotek Anbote An-
		Ur = 3.8 dB (Vertical)	Anbotek Anbort An.
,		nbotek Anbote. And botek	Anbotek Anbo, A. Ant
Conduction Uncertainty	:	Uc = 3.4 dB	k Anbotek Anbo

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, 2018.

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

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	l 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	f/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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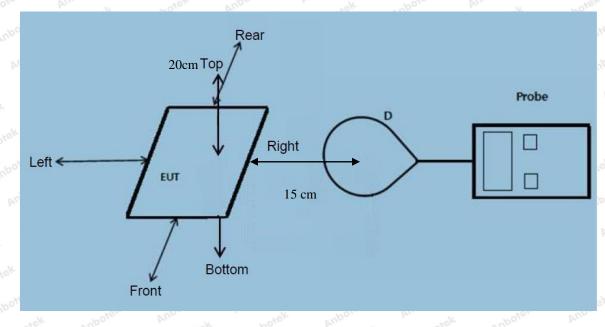
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2.2. Test Setup



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 Power Bank

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:	23.8°C	Relative Humidity:	54%
Pressure:	1012 hPa	Test Voltage:	DC 3.7V Battery inside

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

botek	Frequency	Test	Teat	Toot	Teet	Toot	Deference	Limito
Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
power	Range	Position	Position	Position	Position	Position	Limit	Test
tek Anb	(KHz)	A	abote B	AnboC	All D hotek	Enbote	(V/m)	(V/m)
botek P	nbotek An	po tek	Anbotek	Anboro	Aun pos	ek Anb	otek Anbo	otek p
1%	110.1~205	0.37	0.34	0.25	0.46	0.90	307	614
An-botek	Anboten	Anbe	hnbot	ek Anbr	or An	botek	Anboten	Anbo
Anthotek	Anboten	Anbo	tek an	potek p	nbore	An	Anboten	Anbo
50%	110.1~205	1.49	1.31	1.28	1.35	1.58	307	614
All All	botek Ant	poten A	nbo	Anbotek	Anbore	K priv	stek Anbot	en An
bore A	botek	Anboten	Anbo	Anbotek	Anbor	PILL PILL	botek An	poter
99%	110.1~205	2.27	2.10	2.12	^{elk} 2.22 pm	2.05	307	614
Anbore	Anthotek	Anbotek	Anbo	stek n	botek	Anbore	Antobotek	Anbotek
Anbore	An abote	k Anbo	len Aut	wotek h	Anbotek	Anbore	Amobotek	Anbote
Stand-by	110.1~205	0.43	0.37	0.74	0.46	0.59	307	614
potek Ar	bote. And	botek	Anbotek	Anboutek	h. hoote	K Anbo	re Anu	otek

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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)
1%	110.1~205	0.046	0.047	0.055	0.040	0.059	0.815	1.63
50%	110.1~205	0.25	0.51	0.36	0.37	0.42	0.815	1.63
99%	110.1~205	0.39	0.54	0.51	0.33	0.56	0.815	1.63
Stand-by	110.1~205	0.20	0.16	0.27	0.34	0.30	0.815	1.63

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

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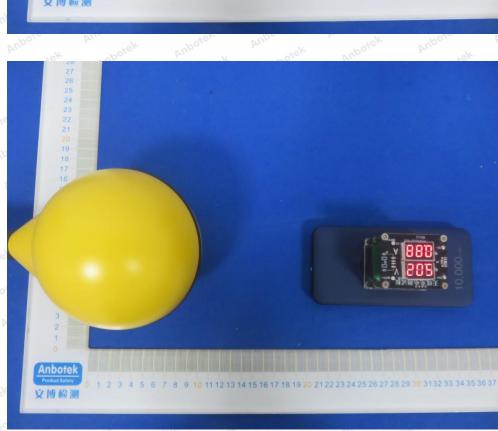




Photo of MPE Measurement

APPENDIX I -- TEST SETUP PHOTOGRAPH

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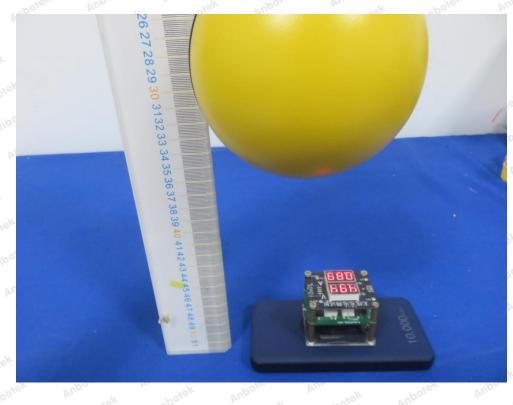
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