

FCC TEST REPORT

For

BeiHai Innotech Technology Co., Ltd

Wireless Charging Pad

CKWL0507, 33461, 33462, CKWL0507-01, CKWL0507-02,

Model No.: CKWL0507-05, CKWL0507-06, CKWL0507-07, CKWL0507-08,

CKWL0507-09, CKWL0507-10

Prepared For : BeiHai Innotech Technology Co., Ltd

Address Building No. A02, CECT Industrial Park, BeiHai Industrial Zone, BeiHai,

China

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

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Report Number : SZAWW180531005-02

Date of Test : Jun .01~12, 2018

Date of Report : Jun. 13, 2018



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TEST REPORT

Applicant : BeiHai Innotech Technology Co., Ltd

Manufacturer : BeiHai Innotech Technology Co., Ltd

Product Name : Wireless Charging Pad

Model No. CKWL0507, 33461, 33462, CKWL0507-01, CKWL0507-02, CKWL0507-05,

CKWL0507-06, CKWL0507-07, CKWL0507-08, CKWL0507-09, CKWL0507-10

Trade Mark : Innotech

Date of Test:

Rating(s)

Input: DC 5V, 2A
Output: 5W 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.

Jun .01~12, 2018

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	d Signer .		(Manager / T	Γom Chen)	



1. General Information

1.1. Client Information

Applicant	:	BeiHai Innotech Technology Co., Ltd
Address	:	Building No. A02, CECT Industrial Park, BeiHai Industrial Zone, BeiHai, China
Manufacturer	:	BeiHai Innotech Technology Co., Ltd
Address	:	Building No. A02, CECT Industrial Park, BeiHai Industrial Zone, BeiHai, China

1.2. Description of Device (EUT)

Product Name	:	Wireless Charging Pad	tek abotek Anbotek Anbotek
Model No.	:	CKWL0507-06, CKWL0507-07,	VL0507-01, CKWL0507-02, CKWL0507-05, CKWL0507-08, CKWL0507-09, CKWL0507-10 except the appearance, so we prepare "CKWL0507"
Trade Mark	:	Innotech Anbotek	Ambotek Anbotek Anbo
Test Power Supply	:	AC 120V, 60Hz for adapter / AC	240V, 60Hz for adapter
		Operation Frequency:	110-148KHz
		Number of Channel:	9 Channels
Product Description		Modulation Type:	MSK
Description		Antenna Type:	Loop Antenna
		Antenna Gain(Peak):	0 dBi

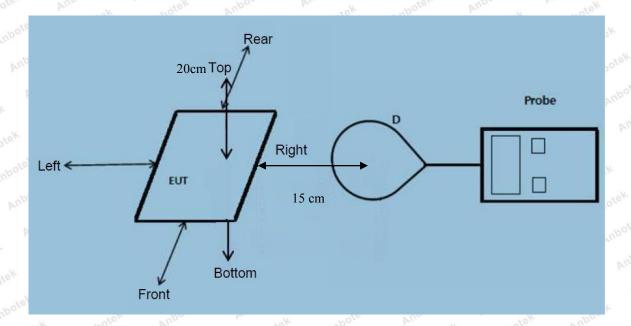
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

1.3. Auxiliary Equipment Used During Test

0	Adapter	:	M/N: S018BYU1200150	Ann	Anbotek A
0			Input: 100-240V~50/60Hz 600mA		notek hotek
			Output: DC 5V/DC 9V/DC 12V, 3A/2A/1.5A	Anbore	Ann



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
1	Magnetic field meter	NARDA	ELT-400	423623	May 27, 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

All Emissions tests were performed at

Shenzhen Anbotek Compliance Laboratory Limited. at 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



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.

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 Occ	cupational/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	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

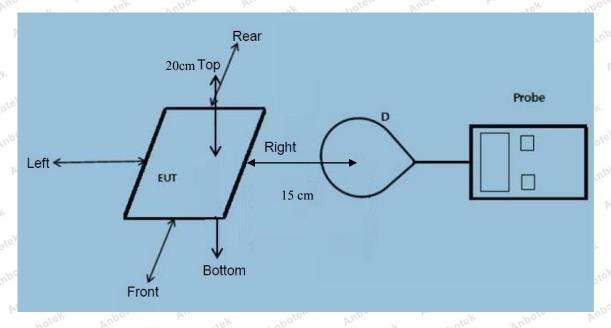
F=frequency in MHz

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).

⁼Plane-wave equivalent power density



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
- $(A,B,C,D,E) \ were \ completed. (A is the right, B is the back, C is the left, D is the front, and E is the top.)$
- Remark;

The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

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 110 KHz to 148 KHz
- 2) Output power from each primary coil is less than 5 watts
 - The maximum output power of the primary coil is 5W.
- 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

5	Battery	Frequency	Test	Test	Test	Test	Test	Referenc	Limits
	power	Range (KHz)	Position A	Position B	Position C	Position D	Position E	Limit	Test (V/m)
Y.	Anborel	Anbotok	K Anbote	otek Ano	100fek	Xupotek Yupotek	Anbore	(V/m)	Anbotek
,0	1%	110~ 148		0.39	0.35	0.37	0.30	307	614
, i	ibotek A	anbotek Ar	Anbotok	Anhotek	Anbore	k Anbe	ek Pupo	potek Ani	anbotek.
	50%	110~ 148	1.25	1.29	1.38	1.34	1.26	307	614
6	Anbotek	Anboten	ek Aupo	otek br	botek	Anbotek	Anbotok	Pupofek	K Anbor
0	99%	110~ 148	2.58	2.42	2.37	2.45	2.34	307	614
37	boten Ar	Anbotek	Ambotek	Anbotek	Aupote	k Aupo	ek Anbo	DOTEK P.	mbotek
	Stand-by	110~ 148	0.40	0.37	0.29	0.32	0.23	307	614
	Anbotek	Anbote	ek - nb	stek An	potek P	inpo-	Anbotek	Anboter	Anu bot



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

Battery	Frequency	Test	Test	Test	Test	Test No.	Referenc e	Limits
power	Range	Position	Position	Position	Position	Position	Limit	Test
America	(KHz)	A	B'''	otek C	bore D	KIND E	(A/m)	(A/m)
	k Anbote	Anbo	notek n	nbotek	Anbote tek	Annabotek	Anbotek	Anbo
1%	110~ 148	0.085	0.092	0.087	0.081	0.090	0.815	1.63
ote. Au	notek p	hbotek	Yupor - rek	Ar. abotek	Anbote	K Anbo	stek Ar	poteK
	hotek	Anbotek	Anbo	6 Anbol	ek Anb	ote Ann	hotek	Anbotek
50%	110~ 148	0.20	0.19	0.15	0.17	0.14	0.815	1.63
Anbote	K Anti-	Anbot	ek Anb	ore Vu	abotek	Aupotek	Anbo	A. Anbo
	rek Wun	tek An	potek p	upo. otek	Anbotek	Anbote.	Anti-	ek Pi
99%	110~ 148	0.27	0.23	0.34	0.42	0.30	0.815	1.63
botek p	upoter A	hotek hotek	Anbotek	Anbote	ek An	rek Anbr	tek An	po otek
Anbotek	Anbotes	Andabotek	Anbote	Anbo	otek An	obotek A	hotek	Anbe
Stand-by	110~ 148	0.18	0.14	0.16	0.13	0.17	0.815	1.63
	e abotell	Anbo	N.	notek	Aupole	Ann	abotek	Vupo,



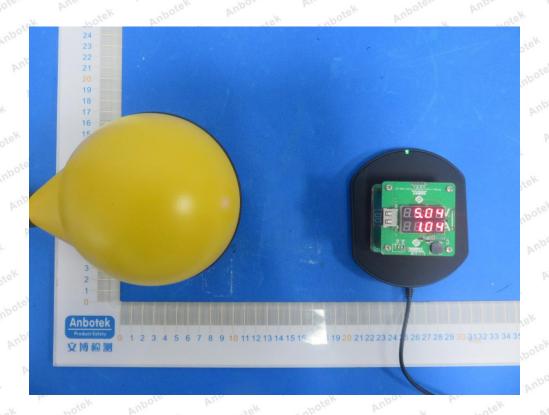
APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement



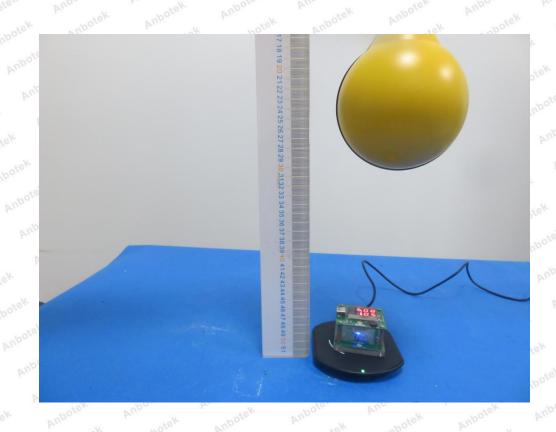












End of Report