

Report No.: 18220WC00020502FCC ID: 2AQRPTJC109WCPage 1 of 13

FCC TEST REPORT

Client Name	: Dongguan Tyjin Electronics Co., Ltd.
Address	Shitouling Industrial Zone, Wulian Village, Fenggang Town, Dongguan, China
Product Name	: Wireless Charging Pad

Date : Apr. 08 2020



Shenzhen Anbotek Compliance Laboratory Limited

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FCC ID: 2AQRPTJC109WC Page 2 of 13

Contents

1. General Information	under the second	4
1.1. Client Information	Anu and	
1.2. Description of Device (EUT)	A BUDO. A	
1.3. Auxiliary Equipment Used During Test	under Mu	5
1.4. Test Equipment List	and the second s	
1.5. Measurement Uncertainty	And Contraction of the second	
1.6. Description of Test Facility		
2. Measurement and Result	anboten Anbo	6
2.1. Requirements		
2.2. Test Setup		7
2.3. Test Procedure	oten Ano-	7
2.4. Test Result	Andrek Antron I	7
2.4.1. Equipment Approval Considerations item &	5.b of KDB 680106 D01	v037
2.4.2. Environmental evaluation and exposure	limit according to FCC	CFR 47 part 1, 1.1307(b),
1.1310	Anbor Market	9
APPENDIX I TEST SETUP PHOTOGRAPH	e pobole Anu	

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Code:AB-RF-05-a



FCC ID: 2AQRPTJC109WC Page 3 of 13

TEST REPORT

Applicant	Dongguan Tyjin Electronics Co., Ltd.
Manufacturer	Dongguan Tyjin Electronics Co., Ltd.
Product Name	: Wireless Charging Pad
Model No.	[:] C-109, WXQI1076N, WXQI1080B, WXQI1082Z
Trade Mark	
Rating(s)	Input: DC 5V, 2A Wireless output: 5W
Test Standard(s)	· FCC Part 1.1310, 1.1307(b)

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 Date of Test Mar. 17, 2020 Mar. 17~25, 2020

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Prepared Bv

Reviewer

(Engineer / Dolly Mo)

Doly

Bibs Thank

(Supervisor / Bibo Zhang)

(Manager / Tom Chen)

Shenzhen Anbotek Compliance Laboratory Limited

Approved & Authorized Signer

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Report No.: 18220WC00020502 FCC ID: 2AQRPTJC109WC Page 4 of 13

1. General Information

1.1. Client Information

- 0Y		
Applicant	:	Dongguan Tyjin Electronics Co., Ltd.
Address	:	Shitouling Industrial Zone, Wulian Village, Fenggang Town, Dongguan, China
Manufacturer	:	Dongguan Tyjin Electronics Co., Ltd.
Address	:	Shitouling Industrial Zone, Wulian Village, Fenggang Town, Dongguan, China
Factory	:	Dongguan Tyjin Electronics Co., Ltd.
Address	:	Shitouling Industrial Zone, Wulian Village, Fenggang Town, Dongguan, China

1.2. Description of Device (EUT)

Product Name	:	Wireless Charging Pad	
Model No.	:	C-109, WXQI1076N, WX0 (Note: All samples are the prepare "C-109" for test o	e same except the model appearance, so we
Trade Mark	:	WINX, 77JIN	Anbotek Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for adapte	er Anbotek Anbotek Anbotek Anbotek Anbote
Test Sample No.	:	1-2-1(Normal Sample), 1-	2-1(Engineering Sample)
		Operation Frequency:	110.1-205KHz
Product		Modulation Type:	ASK Model Musice
Description		Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	0 dBi

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Code:AB-RF-05-a



1.3. Auxiliary Equipment Used During Test

Adapter	:	Model: A2013	Anbo	botek	Anboro	Amotek
		Input: 100-240V~5	0/60Hz 0.7A			
		Output: DC 3.6-6.5	5V, 3A/6.5-9V	, 2A/9-12V, ⁻	I.5A	

1.4. Test Equipment List

20	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
2	1 1 ate	Magnetic field meter	NARDA	ELT-400	423623	Dec. 23, 2019	1 Year
	2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2017	3 Year
1	3	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2017	3 Year

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	Anbo, Anbo, An	abotek Anbote.	4
		Ur = 3.8 dB (Vertical)			. A
		Lek sobotek Anboten	Anberrotek	anbotek Anb	200
Conduction Uncertainty	:	Uc = 3.4 dB	And hotek	Anbotek A	upo.

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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FCC ID: 2AQRPTJC109WC Page 6 of 13

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/cm²)	Averaging time (minutes)									
	(A) Limits for Occ	upational/Controlled Ex	posures										
0.3-3.0	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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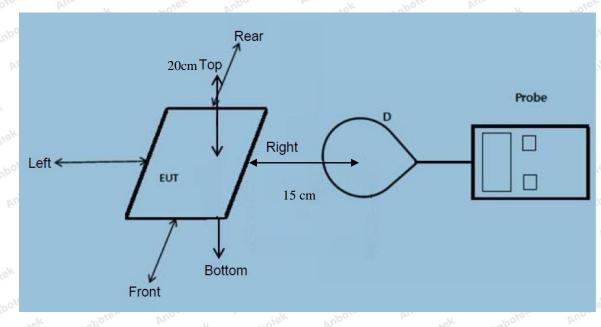
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Report No.: 18220WC00020502 FCC ID: 2AQRPTJC109WC Page 7 of 13

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 5W.

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Code:AB-RF-05-a

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Report No.: 18220WC00020502

FCC ID: 2AQRPTJC109WC Page 8 of 13

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 two primary coils is to detect and allow only between individual pairs of coils.Only one coil works at a time.

- 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 Charging Pad

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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Code:AB-RF-05-a



Report No.: 18220WC00020502FCC ID: 2AQRPTJC109WCPage 9 of 13

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

Temperature:	23.5°C	Relative Humidity:	52%
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

10	~ CV	No.	0.0	5 A A	22923	10	- CV	- V~
Pottoryk	Frequency	Test	Test	Test	Test	Test	Reference	Limits
Battery	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	A A	on ^{elle} B pr	С	D	AIE OTEN	(V/m)	(V/m)
tek Anb	Sten Aupo	otek p	nbotek	Anbois	Autobotek	Anbore	Aug Pug	ek Ar
1%	110.1~205	0.35	0.32	0.24	0.43	0.95	307	614
nbotek	Anbote	Anu hotek	Anbotek	Anbo	tek no	potek	inboto. Ar	hotek
hnbotek	Anbore	Ansbotel	Anbot	an Anb	otek	Anbotek	Anbore	Antobotek
50%	110.1~205	1.63	1.28	1.33	1.42	1.66	307	614
ek nobc	rek Anbor	Ann	hotek	Anbotek	Anbo	hinnbote	Anbore	And i
stek h	tbotek Ant	pote P	hotek	Anbotek	Anbo	ex nob	ptek Anbor	PU PU
99%	110.1~205	2.26	2.17	2.26	2.05	2.11	307	614
Anboro	Annobotek	Anboten	Anbe	K Anbo	rek Ant	port P	abotek	Anboten
Anbo, stek	Anbotek	Anborer	Anu	otek Al	ibotek	Anbo, stek	hnbotek	Anboro
Stand-by	110.1~205	0.42	0.36	0.75	0.52	0.49	307	614
sk Aupo	tek pi	otek Ar	poter	Lotek	Anbotek	Anbor	lek nbote	K Ant

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Code:AB-RF-05-a



Report No.: 18220WC00020502FCC ID: 2AQRPTJC109WCPage 10 of 13

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	otek Anbo	stek	nbotek	Anboro	Ans	Anbote	Anbo	ek m
1%	110.1~205	0.048	0.043	0.042	0.040	0.064	0.815	1.63
botek	Anbotek	Anbor	Artobotek	Anbote	Anu Anu	Lotek D	nbotek Ar	bo, tek
Andhotek	Anbotek	Anbo	r nbo	iek Anb	oto A	hotek	Anbotek	Anbo
50%	110.1~205	0.25	0.52	0.37	0.42	0.45	0.815	1.63
And	ptek Anbot	ek Aup	yek p	abotek	Anboten	And	Anbotek	Ant
Ann	hotek An	potek P	nbo	A. potek	Anbore	Arra no	rek Anbot	e ^M
99%	110.1~205	0.41	0.51	0.50	0.35	0.41	0.815	1.63
Anboten	Anthotek	Anbotek	Aupor	ek sob	Hek Ar	poter A	Lotek	Anbotek
Anboten	Anubotek	Anbotel	Aupo	rek pi	obotek	Anboro	Ann hotek	Anbote
Stand-by	110.1~205	0.22	0.17	0.23	0.31	0.30	0.815	1.63
anbo	ter Anoc	494	botek	Anbors	p.i. Lotek	anboten	Anbe	N-

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

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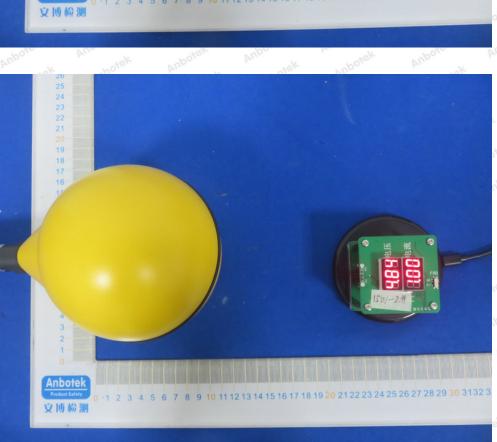




Photo of MPE Measurement

APPENDIX I -- TEST SETUP PHOTOGRAPH

Report No.: 18220WC00020502

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FCC ID: 2AQRPTJC109WC Page 11 of 13



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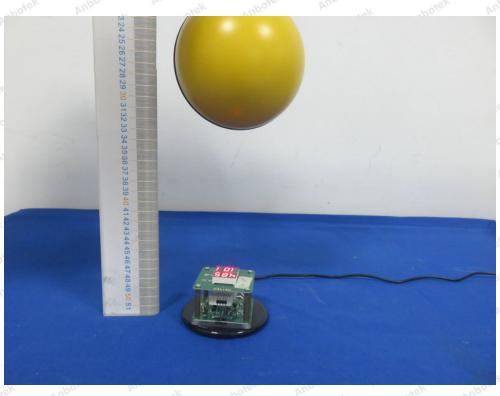
Report No.: 18220WC00020502 FCC ID: 2AQRPTJC109WC Page 12 of 13



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FCC ID: 2AQRPTJC109WC Page 13 of 13



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