

Report No.: 18220WC20041802 FCC ID:2AQRPTJC098AWC Page 1 of 12

FCC TEST REPORT

Client Name : Dongguan Tyjin Electronics Co., Ltd.

Address Room 101, Building 2, No.7 Keyan Road Wulian Village,

Fenggang Town, Dongguan, Guangdong, 523690 China

Product Name : Wireless Charging Pad

Date : Apr. 27, 2022

Shenzhen Anbotek Compliance Laboratory Limited



Contents

1. Ge	neral Information	4770		<u>k</u>	b.,		
. 1	I.1. Client Information	nobole.	Yun		too _{tek}	Pupo,	4
1	.2. Description of Device (EUT)	10 dy	ek Ant	b.	work.	Wpo _{te} ,	Anv
ote.	I.3. Auxiliary Equipment Used Durir	ng Test	, otek	upote,	Yun Yok	joote	
nbotek	I.4. Test Equipment List	oose Au		lootek	Anbo.		otek !
-60	.5. Measurement Uncertainty	Kubotek	Anbo	h. motek	Anboh	Vu.	2
Alle	.6. Description of Test Facility	r. watek	Anbore	bu.	//,//	iotek	in the second
2. Me	easurement and Result	Mr.	, abote	Anbe		otek	dn
2	2.1. Requirements	Anbe		otek pr	DOL.	by,	
	2.2. Test Setup				"opo _{ten}	Anbe	
rek2	2.3. Test Procedure	day Haye	oter p	Wp.	, ontek	Anbors	
100,0	2.4. Test Result		Abatek	Anbor	Pr.	k	of or
ΔPPF	NDIX I TEST SETUP PHOTOGR	RAPH					otek 10



Report No.: 18220WC20041802 FCC ID:2AQRPTJC098AWC Page 3 of 12

TEST REPORT

Applicant : Dongguan Tyjin Electronics Co., Ltd.

Manufacturer : Dongguan Tyjin Electronics Co., Ltd.

Product Name : Wireless Charging Pad

Model No. : C-098A, 2BRQI1240B0G7, 2BRQI1240W0G7

Trade Mark : N.A.

Rating(s) Input: DC 5V/2A, DC 9V/1.67A

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	Mar. 03, 2022
Date of Test	Mar. 03~ Apr. 19, 2022
Prepared By	Nian xiu Chen
k Anborek Anborek Anborek Anborek	(Nianxiu Chen)
Approved & Authorized Signer	(ingkong)in
Approved & Authorized Signer	(Kingkong Jin)

Shenzhen Anbotek Compliance Laboratory Limited

Code:AB-RF-05-a





Report No.: 18220WC20041802 FCC ID:2AQRPTJC098AWC Page 4 of 12

1. General Information

1.1. Client Information

, V	Applicant	:	Dongguan Tyjin Electronics Co., Ltd.
O	Address	:	Room 101, Building 2, No.7 Keyan Road Wulian Village, Fenggang Town, Dongguan, Guangdong, 523690 China
Š	Manufacturer	:	Dongguan Tyjin Electronics Co., Ltd.
	Address	:	Room 101, Building 2, No.7 Keyan Road Wulian Village, Fenggang Town, Dongguan, Guangdong, 523690 China
i.	Factory	:	Dongguan Tyjin Electronics Co., Ltd.
3	Address	:	Room 101, Building 2, No.7 Keyan Road Wulian Village, Fenggang Town, Dongguan, Guangdong, 523690 China

1.2. Description of Device (EUT)

Product Name	:	Wireless Charging Pad	Anbotek Anborek Anbotek Anborek					
Model No.	:	C-098A, 2BRQI1240B0G7, 2E (Note: All samples are the sar "C-098A" for test only.)	BRQI1240W0G7 me except the model number, so we prepare					
Trade Mark	stek Anbote And abotek Anbotek							
Test Power Supply	:	AC 120V, 60Hz for adapter 1-2-1(Normal Sample), 1-2-2(Engineering Sample)						
Test Sample No.	:							
	i.	Operation Frequency:	110.1-205KHz					
		Modulation Type:	ASK Model Andores					
Product Description		Antenna Type:	Inductive loop coil Antenna					
Воссираен		Antenna Gain(Peak):	0 dBi (Provided by customer)					
		Adapter:	N/A					

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

Shenzhen Anbotek Compliance Laboratory Limited

Code:AB-RF-05-a

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Report No.: 18220WC20041802 FCC ID:2AQRPTJC098AWC Page 5 of 12

1.3. Auxiliary Equipment Used During Test

Adapter	:	M/N: A2013	
		Input: AC 100-240V, 0.7A, 50-60Hz	0
		Output: 3.6-5.5V=3A/ 6.5-9V=2A/ 9-12V=1.5A	
Mobile Phone	:	*MI 11 Anbore Andrek Anborek Anborek An	O

1.4. Test Equipment List

X	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
	Anbr	Electric and Magnetic field	NARDA	EHP-200A	180ZX10202	Nov. 12, 2021	1 Year
Ķ	P	Analyzer	anbotek	Anbo. ak	hotek Ant	Ose. And	rek nbo

1.5. Measurement Uncertainty

Magnetic Field Reading(A/m)	:	+/-0.04282(A/m)	alk.	Anbotek	Anbo,	hi.
Electric Field Reading(V/m)		+/-0.03679(V/m)		Anbotek	Anbo	Anbotek.

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 registered 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.

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.

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



Code:AB-RF-05-a





Report No.: 18220WC20041802 FCC ID:2AQRPTJC098AWC Page 6 of 12

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 Occupational/Controlled Exposures											
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	ę.							
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).

Code:AB-RF-05-a

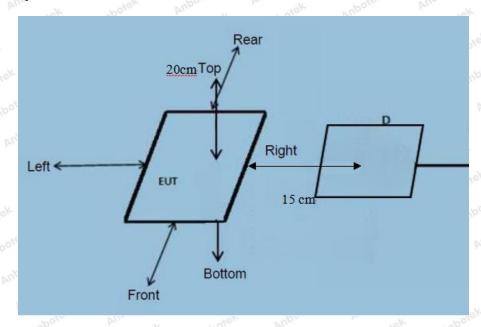
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^{*=}Plane-wave equivalent power density



Report No.: 18220WC20041802 FCC ID:2AQRPTJC098AWC Page 7 of 12

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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Code: AB-RF-05-a



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Report No.: 18220WC20041802 FCC ID:2AQRPTJC098AWC Page 8 of 12

- 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 exposure conditions
- 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.

Code: AB-RF-05-a



Report No.: 18220WC20041802 FCC ID:2AQRPTJC098AWC Page 9 of 12

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

Temperature:	22.5°C	Relative Humidity:	49 %
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 power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
1%	110.1-205	0.249	0.339	0.289	0.299	0.419	307	614
50%	110.1-205	1.453	1.893	1.383	1.513	1.683	307	614
99%	110.1-205	2.379	2.779	2.389	2.339	2.799	307	614
Stand-by	110.1-205	0.453	0.603	0.443	0.433	0.573	307	614

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

1.		76,			Luco"	DAY.	75/01	- QV
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	0.053	0.075	0.081	0.065	0.075	0.815	1.63
50%	110.1-205	0.344	0.434	0.334	0.334	0.504	0.815	1.63
99%	110.1-205	0.459	0.639	0.529	0.349	0.339	0.815	1.63
Stand-by	110.1-205	0.511	0.331	0.431	0.551	0.411	0.815	1.63



APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement





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Code: AB-RF-05-a







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