

FCC TEST REPORT

For

Shenzhen Huaqi Technology Co., Ltd.

Wireless Car Charging Holder

Model No.: HQ-C

Prepared For : Shenzhen Huaqi Technology Co., Ltd.

Address : Rm 810, Nanyuan Commercial Building, Minbao Road, Minzhi Street,

Longhua District, Shenzhen, China

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

Address : 1/F, Building D, Sogood Science and Technology Park, Sanwei

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Report Number : SZAWW180827003-02

Date of Test : Aug. 27, 2018

Date of Test : Aug. 27~ Sept. 10, 2018

Date of Report : Sept. 10, 2018



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TEST REPORT

Applicant : Shenzhen Huaqi Technology Co., Ltd.

Manufacturer : Shenzhen Huaqi Technology Co., Ltd.

Product Name : Wireless Car Charging Holder

Model No. : HQ-C

Trade Mark : **以**提盟

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

Output: 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 Test			Aug. 14~Sej	pt. 10, 2018	
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			rek Anbore	Amotek	
Approved & Authorized			on	Chen	
Approved & Authorized	Signer		Aupo N.	tek unbote.	Ann
		ek abotek	(Manager /	Tom Chen)	ek Anbore.



1. General Information

1.1. Client Information

Applicant	:	Shenzhen Huaqi Technology Co., Ltd.
Address	:	Rm 810, Nanyuan Commercial Building, Minbao Road, Minzhi Street, Longhua District, Shenzhen, China
Manufacturer	:	Shenzhen Huaqi Technology Co., Ltd.
Address	:	Rm 810, Nanyuan Commercial Building, Minbao Road, Minzhi Street, Longhua District, Shenzhen, China

1.2. Description of Device (EUT)

D P		210	NO. D.						
Product Name	:	Wireless Car Charging Holder							
Model No.	:	HQ-C	Jore Am Anbotek Anbotek Anbotek						
Trade Mark	:	₩ 华 議 英	Anbotek Anbotek Anbotek Anbotek						
Test Power Supply	:	AC 120V, 60Hz for adapter / AC	240V, 60Hz for adapter						
Test Sample No.	:	S1(Normal Sample), S2(Engineering Sample)							
2		Operation Frequency:	111-205KHz						
		Number of Channel:	20 Channels						
Product Description	:	Modulation Type:	FSK Anbotek Anbotek						
Description		Antenna Type:	Inductive loop coil Antenna						
		Antenna Gain(Peak):	0 dBi Anbotek Anbo						

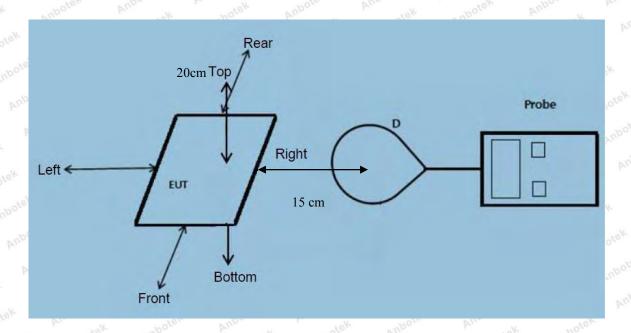
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

1.3. Auxiliary Equipment Used During Test

	pr.		TOTAL	_
O	Adapter	:	Model: A2013	30
			Input: 100-240V 50-60Hz 0.7A	
10			Output: 3.6-6.5V== 3A/6.5-9V== 2A/9-12V== 1.5A	P
			Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	
1	Mobile Phone	:	Samsung	e.V



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

FCC ID: 2AM8B-HQ-C

1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1 000	Magnetic field meter	NARDA	ELT-400	423623	Nov.17, 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

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



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/cm ²)	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	I	1	5	6	
	(B) Limits for Genera	Population/Uncontrolle	d 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	0.073 0.2		
300-1500	Ì	1	f/1500	30	
1500-100,000	1	1	1.0	30	

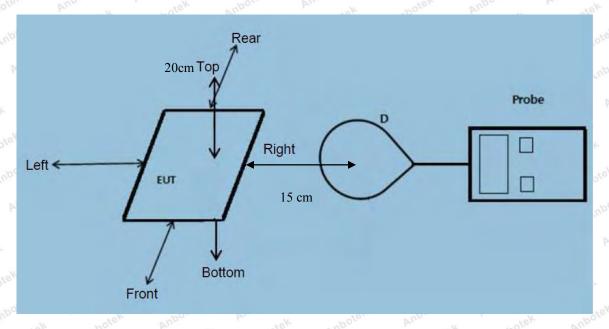
F=frequency in MHz

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.)
- 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 from 111 KHz to 205 KHz
 - 2) Output power from each primary coil is less than 15 watts
 - The maximum output power of the primary coil is 10W.
 - 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

L-1 leic	i Suchgui at	15 cm sum	ounding th	ic LOT and	20cm abc	ve the top si	urrace or the	LUI
Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
power	Range	Position	Position	Position	Position	Position	Limit Limit	Test
power	(KHz)	A	An B	C	M D MAD	E And	(V/m)	(V/m)
Anbore	Andotek	Anbotek	Anbo	rek vul	otek A	ipote. A	hotek	Anbotek
1%	111~ 205	0.39	0.24	0.33	0.51	0.43	307	614
Anbote,	And ho	ek Ant	otek Ar	Por	Anabotek	Anbotek	Anbo	, vup
kek Anbo	ic. Vun	botek l	mbotek	Anbor	A. abotek	Anboten	Anbo	rek p
50%	111~ 205	1.36	1.41	1.57	1.67	1.45	307	614
nbotek	Anbote.	Ann	Anbotek	Anbor	rox VIII	botek Ar	botek A	ibo otek
Anbotek	Anbote	And	Anbo'	ek Aup	or A	anbotek	Anboten	Anbonote
99%	111~ 205	2.11	2.27	2.38	2.54	2.85	307	614
ek abo	lek Anbot	K Ann	-otek	Anbotek	Anbore	An botek	Anboten	, Anb
otek As	botek An	pote, b	notek	Anbotek	Anbote	ek Air	ek Anbo	ier b
Stand-by	111~ 205	0.41	0.43	0.57	0.38	0.26	307	614
Aupor	All	Anbotek	Anbo	ek vup	otek Ar	pore. An	hotek	Anbotek



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

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Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
, ,	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	nboteA	Anbok	Am C botek	DAnbote	EARDO	(A/m)	(A/m)
nbote	hotek	Anbotek	Aupor	k by	ek Anh	oter Yup	notek l	nbotek
1%	111~ 205	0.036	0.048	0.026	0.042	0.069	0.815	1.63
Anbore	Anu sotel	Anbot	ek Anb	or by	abotek	Anboten	All	Anboi
Anbote	And M	stek An	potek p	inpor	A. nbotek	Anboten	Anbo	4
50%	111~ 205	0.17	0.15	0.27	0.14	0.19	0.815	1.63
nbotek p	inpose. A	up rotek	Anbotek	Anbor	5K *P1.	otek Anb	otek Anb	atek
Anbotek	Anbote.	And	Anbote	Anbo	rek Air	abotek A	upoten b	nbo
99%	111~205	0.41	0.51	0.54	0.68	0.47	0.815	1.63
A potel	Anbote,	And	otek .	abotek	Anbora	All hotek	Anbotek	Anbo
Kek Win	tek Anbo	re. Au	wotek.	Anbotek	Anbore	Allabotek	Anbote	Anl
Stand-by	111~ 205	0.41	0.43	0.50	0.18	0.65	0.815	1.63
Aport A	botek	Anbotek	Anbo	, abote	K Aup	ye. And	notek A	botek



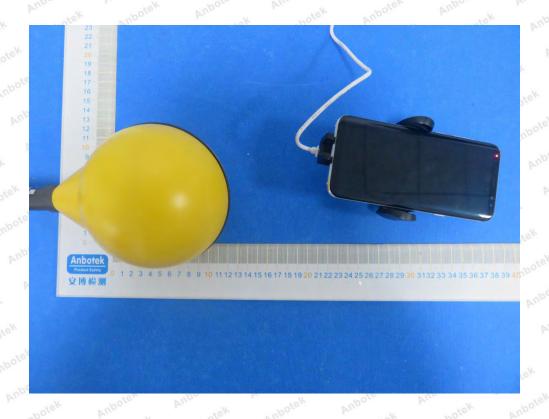
APPENDIX I -- TEST SETUP PHOTOGRAPH

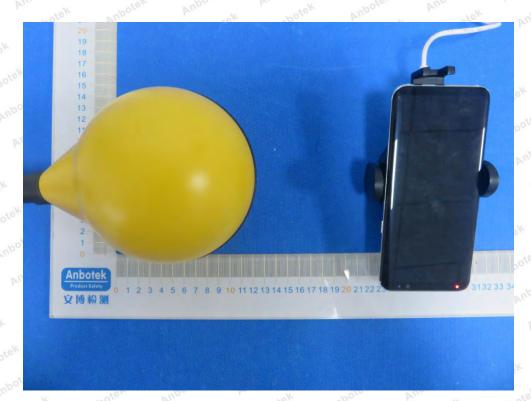




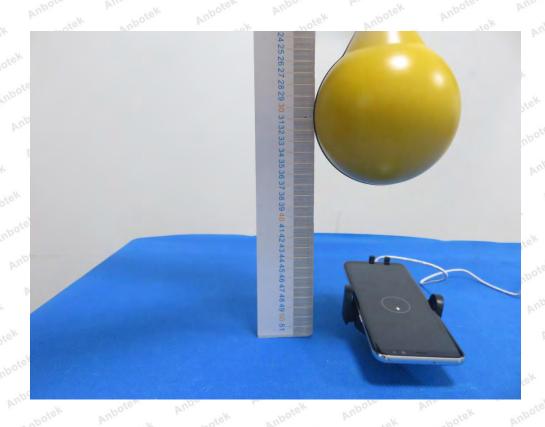












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