

FCC TEST REPORT

For

Sariana LLC

Wireless Charger V2

Model No.: ST-IWCBM, ST-IWCBG, ST-IWCBS

Prepared For : Sariana LLC

Address : 7365 Mission Gorge Rd, Suite G, San Diego, CA 92120, USA

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

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

community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong,

China.518102

Tel: (86) 755-26066440 Fax: (86) 755-26014772

Report Number : SZAWW180829002-02

Date of Test : Aug. 29, 2018

Date of Test : Aug. 29~ Sept. 13, 2018

Date of Report : Sept. 13, 2018



Contents

1. General Information.	4
1.1. Client Information	4
1.2. Description of Device (EUT)	4
1.3. Auxiliary Equipment Used During Test	4
1.4. Description Of Test Setup	5
1.5. Test Equipment List	6
1.6. Description of Test Facility	6
2. Measurement and Result	7
2.1. Requirements	7
2.2. Test Setup	8
2.3. Test Procedure	8
2.4. Test Result	ote ^k 8
2.4.1. Equipment Approval Considerations item 5.b of KDB 680106 D01 v03	8
2.4.2. Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.	13109
A DRENIDIV I TEST SETUD DIJOTOGD A DIJ	Anbold 11



TEST REPORT

Applicant : Sariana LLC

Manufacturer : Sariana LLC

Product Name : Wireless Charger V2

Model No. : ST-IWCBM, ST-IWCBG, ST-IWCBS

Trade Mark : S \(\Lambda\) T E C H I

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

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.

Prepared by

(Engineer / Tangey Tang)

Reviewer

(Supervisor / Snowy Meng)

Approved & Authorized Signer

(Manager / Sally Zhang)



1. General Information

1.1. Client Information

Applicant	:	Sariana LLC
Address	:	7365 Mission Gorge Rd, Suite G, San Diego, CA 92120, USA
Manufacturer	:	Sariana LLC
Address	:	7365 Mission Gorge Rd, Suite G, San Diego, CA 92120, USA

1.2. Description of Device (EUT)

Product Name	:	Wireless Charger V2	ek abotek Anbotek Anbotek Anb						
Model No.	:	ST-IWCBM, ST-IWCBG, ST-IW (Note: All samples are the same only.)	VCBS except colour, so we prepare "ST-IWCBM" for test						
Trade Mark	:	SATECH	Thotek Anbore Anborek Anborek						
Test Power Supply	:	AC 120V, 60Hz for adapter / AC 240V, 60Hz for adapter							
Test Sample No.	:	S1(Normal Sample), S2(Engineering Sample)							
	ion : Mod	Operation Frequency:	127.7KHz						
Product		Modulation Type:	FSK Anbotek Anbotek Anbotek						
Description		Antenna Type:	Inductive loop coil Antenna						
\$		Antenna Gain(Peak):	0 dBi						

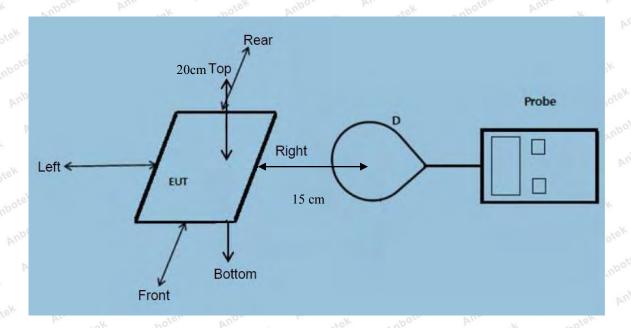
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

1.3. Auxiliary Equipment Used During Test

2	Adapter	:	Input: 100-240V 50-60Hz 0.7A Output: 3.6-6.5V== 3A/ 6.5-9V== 2A/ 9-12V== 1.5A	'ek Yu
			Anbotek Anbotek Anbotek Anbotek Anbotek An	potek
	Mobile Phone	:	Samsung	Anbote



1.4. 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



1.5. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Magnetic field meter	NARDA	ELT-400	423623	Nov.17, 2017	1 Year

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, 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 1 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	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	Ì	1	f/1500	30	
1500-100,000	1	I	1.0	30	

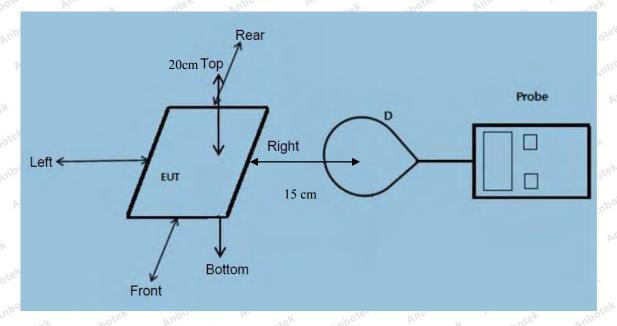
F=frequency in MHz

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 127.7 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 I leic	i buengui at	15 cm sum	ounding th	ic Lor and	200111 a00	ve the top s	arrace or the	2001
Battery	Frequency Range	Test Position	Test Position	Test Position	Test Position	Test Position	Reference Limit	Limits Test
hotek	(KHz)	And A	An B	C	k D Wupe	E And	(V/m)	(V/m)
1%	127.7	0.35	0.24	(8.	0.42	0.46	Ambotek 207	Anbotek 614 dek
170	127.7	0.33	otek N	0.29	0.42	Anbotek	307	614
lek Aupo	rek Aupo	potek b	nbotek	Aupote	Anbanbotek	Anbotek	Anboro	rek VII.
50%	127.7	1.47	1.25	1.96	1.44	1.35 AND	307	614
Aupotek ok	Anbotek	Anbotek	Vupose.	ek And	otak pr	potek Ar	por A	Anbotek
99%	127.7	2.42	2.47	2.62	2.25	2.91	307	614
3370	lek Ambot	ek Anb	oter Z.I. Ar	anbotek	Anbotek	Anbor	Anbotek	Anbo
-otek Pu	botek An	pore* P	nbo	Anbotek	Anbote	ek who,	ek Anbo	lek by
Stand-by	127.7	0.36	0.79	0.83	0.81	0.24	307 N	614
Vu.	abotek	Aupo.	br.	dna Ys	ofer. Pu	b- N	hotek	Anbore



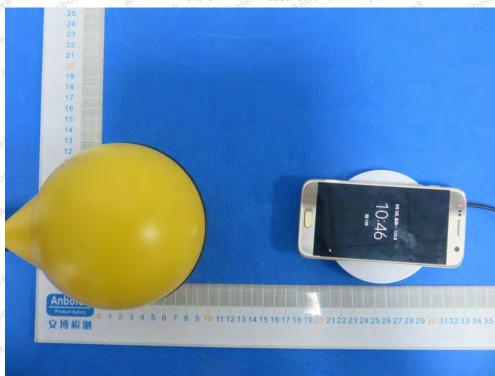
H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

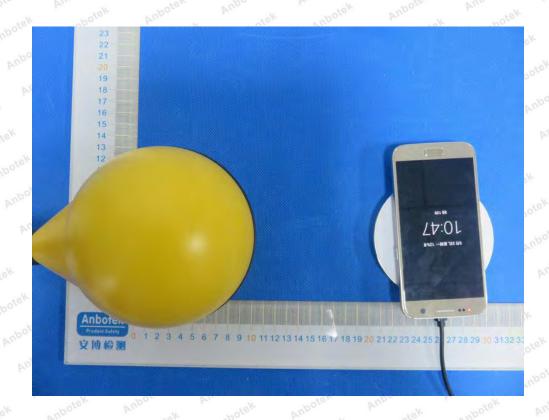
	- ~ o o	To on burn	ounamb u	TO DO I WINC	- 200m aoc	or the top s	diffued of the	2201
Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	mbot A	Anboke B	C	Danbote	EARDO	(A/m)	(A/m)
mbore I	hotek	Anbotek	Aupor	k by	ek Anb	oter Yup	solek I	nbotek
1%	127.7	0.031	0.042	0.050	0.037	0.069	0.815	1.63
Anboten	Anbenotel	Anbot	ek Anb	ore Vi	abotek	Anbotek	All	k. vapot
Anbote	And his	stek An	potek p	upor	Anabotek	Anbotek	Anbox	- nd
50%	127.7	0.14	0.18	0.23	0.27	0.31	0.815	1.63
abotek P	mboten A	nbentek	Anbotek	Anbore	ak An	otek Anb	stek Anbi	otek
Anbotek	Anbotek	Anbubotek	Anbote	Anbor	stek Am	nbotek p	upoten b	upo
99%	127.7	0.4	0.57	0.62	0.48	0.62	0.815	1.63
, abotel	Anbote	And	otek	nbotek	Aupore	Am	Anbotek	Aupo
rek who	rek Anbo	ter Ani	hotek	Anbotek	Anboth	Andotek	Anbote	K Vul
Stand-by	127.7	0.40	0.35	0.51	0.34	0.55	0.815	1.63
Upo. b	hotek	Anboten	Anbastel	nbote	K Anbo	tek Aup	notek A	potek



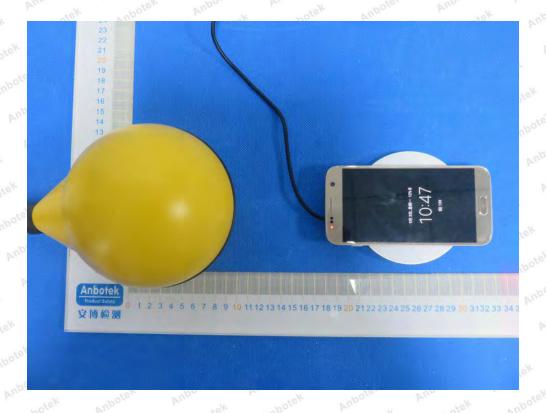
APPENDIX I -- TEST SETUP PHOTOGRAPH

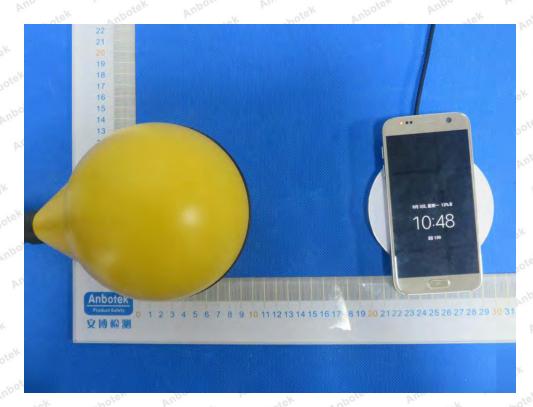




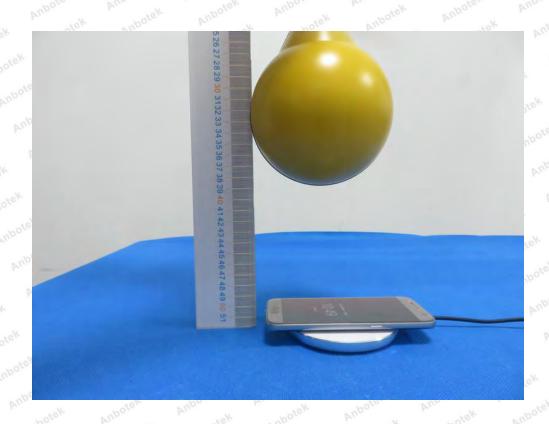












----- End of Report -----