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FCC TEST REPORT

Client Name : Shenzhen Three Bees E-Commerce Co., Ltd.

Address Building A, Jianjin Industrial Park Donghuan 2nd Road,

Longhua Street Shenzhen China 518000

Product Name : Wireless Car Charger

Date : Feb. 26, 2021

Shenzhen Anbotek Compliance Laboratory Limited
* Approved *



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TEST REPORT

Applicant : Shenzhen Three Bees E-Commerce Co., Ltd.

Manufacturer : Shenzhen Three Bees E-Commerce Co., Ltd.

Product Name : Wireless Car Charger

Model No. : X5, X5S, X6S, C1S

Trade Mark : NANAMI

Rating(s) : Input: DC 5V-2A, 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	Jan. 27, 2021
Date of Test	Jan. 27~Feb. 22, 2021
	Yilia Zhong
Prepared By	K Potek Aupore Ann
Anbotek Anbotek Anbo tek Anbotek Ar	Engineer / Yilia Zhong)
	Bibs thang
Reviewer	And Lek Dotek Anboy An
or Anbotek Anbotek Anbotek Anbotek	(Supervisor / Bibo Zhang)
	Kingkong Jin
Approved & Authorized Signer	nek abotek Anbo. A. M. Market
K hotek Anbotes And tek anbotek	(Manager / Kingkong Jin)

Shenzhen Anbotek Compliance Laboratory Limited





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1. General Information

1.1. Client Information

Applicant	: Shenzhen Three Bees E-Commerce Co., Ltd.	100
Address	Building A, Jianjin Industrial Park Donghuan 2nd Road, Longhua Street Shenzhen China 518000	Vi.
Manufacturer	: Shenzhen Three Bees E-Commerce Co., Ltd.	
Address	Building A, Jianjin Industrial Park Donghuan 2nd Road, Longhua Street Shenzhen China 518000	otek
Factory	: Shenzhen Three Bees E-Commerce Co., Ltd.	rode
Address	Building A, Jianjin Industrial Park Donghuan 2nd Road, Longhua Street Shenzhen China 518000	P.U.

1.2. Description of Device (EUT)

Product Name	: Wireless Car Charger
Model No.	X5, X5S, X6S, C1S : (Note: All samples are the same except the model number, so we prepare "X5" for test only.)
Trade Mark	: NANAMI
Test Power Supply	: DC 12V
Test Sample No.	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
	Operation Frequency: 110.1-205KHz
Product	Modulation Type: FSK
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

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1.3. Auxiliary Equipment Used During Test

Car charger	: M/N: R5115	V
	Input: 12-24V=3AMAX	
	USB-A Output: 5V=2.4A; USB-C Output: 5V=3A, 9V=2A	nbote
Mobile phone	: iPhone 12	- 2/o

1.4. Test Equipment List

Item	Equipment	Manufacturer	Model No. Serial No		Last Cal.	Cal. Interval	
1/1/2	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	3 Year	
2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2020	3 Year	
3	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2020	3 Year	

1.5. Measurement Uncertainty

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Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)oten p	nbo otek	anbotek	Anbore
		Ur = 3.8 dB (Vertical)	Anboten	And	Anbotek	Aupor
		inbo. Ar nbotek	Anbore.	Ann	Anbotek	Anto
Conduction Uncertainty	:	Uc = 3.4 dB	Anbore	ak abor	sk Aupore	3/4



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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 30, 2020.

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, September 30, 2020.

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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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 0-15 cm for each edge/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	I	1	5	6
	(B) Limits for Genera	l Population/Uncontrolle	ed Exposure	9
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

Hotline

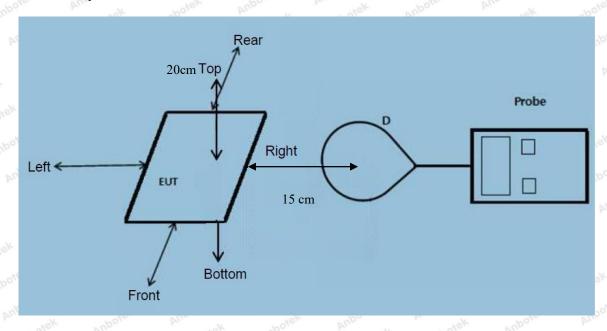


^{*=}Plane-wave equivalent power density



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2.2. Test Setup



Note: Perform H-field measurements for each edge/top surface of the host/client pair at every 2 cm, starting from 0cm out to 10 cm, and 15cm. (See TCB Workshop November 2019)

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.
- 3) The transfer system includes only single primary and secondary coils. This includes charging systems







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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 0-15 cm for each edge/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.



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

Temperature:	23.9°C	Relative Humidity:	54 %
Pressure:	1012 hPa	Test Voltage:	AC 120V, 60Hz for adapter

H-Field Strength at 0 cm surrounding the EUT

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	0.6323	0.4216	0.3887	0.4043	0.3690	0.815	1.63
50%	110.1-205	0.6692	0.4532	0.4261	0.4373	0.4087	0.815	1.63
99%	110.1-205	0.6683	0.4484	0.4252	0.4278	0.4093	0.815	1.63
Stand-by	110.1-205	0.6647	0.4543	0.4264	0.4345	0.4049	0.815	1.63

H-Field Strength at 2 cm surrounding the EUT

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	0.5411	0.3504	0.2982	0.3741	0.3220	0.815	1.63
50%	110.1-205	0.5285	0.3396	0.2905	0.3629	0.3146	0.815	1.63
99%	110.1-205	0.5153	0.3310	0.2742	0.3470	0.2970	0.815	1.63
Stand-by	110.1-205	0.5308	0.3335	0.2838	0.3582	0.3092	0.815	1.63

H-Field Strength at 4 cm surrounding the EUT

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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	0.4673	0.2961	0.2792	0.3071	0.2885	0.815	1.63
50%	110.1-205	0.4660	0.2971	0.2811	0.3091	0.2959	0.815	1.63
99%	110.1-205	0.4493	0.2706	0.2597	0.2806	0.2724	0.815	1.63
Stand-by	110.1-205	0.4782	0.3098	0.2883	0.3130	0.2990	0.815	1.63



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H-Field Strength at 6 cm surrounding the EUT

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	0.4107	0.2470	0.2066	0.2638	0.2250	0.815	1.63
50%	110.1-205	0.3957	0.2385	0.2073	0.2659	0.2182	0.815	1.63
99%	110.1-205	0.4059	0.2644	0.2297	0.2875	0.2462	0.815	1.63
Stand-by	110.1-205	0.4107	0.3095	0.2817	0.3340	0.2927	0.815	1.63

H-Field Strength at 8 cm surrounding the EUT

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	0.3275	0.1976	0.1900	0.2182	0.1909	0.815	1.63
50%	110.1-205	0.3555	0.2287	0.2140	0.2508	0.2248	0.815	1.63
99%	110.1-205	0.4090	0.2765	0.2723	0.2980	0.2665	0.815	1.63
Stand-by	110.1-205	0.3279	0.2032	0.1953	0.2178	0.1990	0.815	1.63

H-Field Strength at 10 cm surrounding the EUT

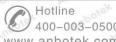
Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
1%	110.1-205	0.2556	0.1587	0.1411	0.1693	0.1416	0.815	1.63
50%	110.1-205	0.2000	0.1985	0.1705	0.2119	0.1794	0.815	1.63
99%	110.1-205	0.2834	0.1817	0.1578	0.1930	0.1678	0.815	1.63
Stand-by	110.1-205	0.2776	0.1671	0.1489	0.1883	0.1591	0.815	1.63

H-Field Strength at 15 cm surrounding the EUT

U	r = (3)			4 P. Y	2.14	- V	
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)
110.1-205	0.1485	0.0890	0.0734	0.1023	0.0786	0.815	1.63
110.1-205	0.1265	0.0713	0.0575	0.0821	0.0664	0.815	1.63
110.1-205	0.1557	0.0973	0.0857	0.1003	0.0858	0.815	1.63
110.1-205	0.1000	0.1385	0.0954	0.0965	0.0755	0.815	1.63
	Range (KHz) 110.1-205 110.1-205 110.1-205	Range (KHz) Position A 110.1-205 0.1485 110.1-205 0.1265 110.1-205 0.1557	Range (KHz) Position A Position B 110.1-205 0.1485 0.0890 110.1-205 0.1265 0.0713 110.1-205 0.1557 0.0973	Range (KHz) Position A Position B Position C 110.1-205 0.1485 0.0890 0.0734 110.1-205 0.1265 0.0713 0.0575 110.1-205 0.1557 0.0973 0.0857	Range (KHz) Position A Position B Position C Position D 110.1-205 0.1485 0.0890 0.0734 0.1023 110.1-205 0.1265 0.0713 0.0575 0.0821 110.1-205 0.1557 0.0973 0.0857 0.1003	Range (KHz) Position A Position B Position C Position D Position E 110.1-205 0.1485 0.0890 0.0734 0.1023 0.0786 110.1-205 0.1265 0.0713 0.0575 0.0821 0.0664 110.1-205 0.1557 0.0973 0.0857 0.1003 0.0858	Range (KHz) Position A Position B Position C Position D Position E Position (A/m) 110.1-205 0.1485 0.0890 0.0734 0.1023 0.0786 0.815 110.1-205 0.1265 0.0713 0.0575 0.0821 0.0664 0.815 110.1-205 0.1557 0.0973 0.0857 0.1003 0.0858 0.815

Note: (1)All the situation(full load, half load and empty load) has been tested, only the worst situation (full load 10W) was recorded in the report.

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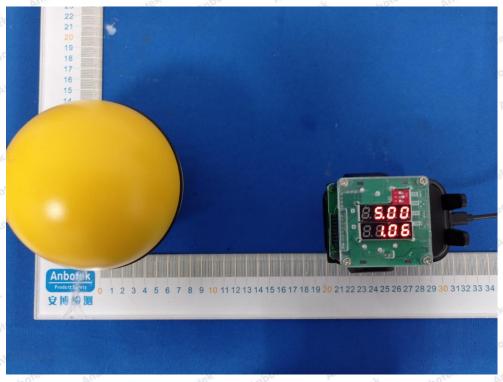


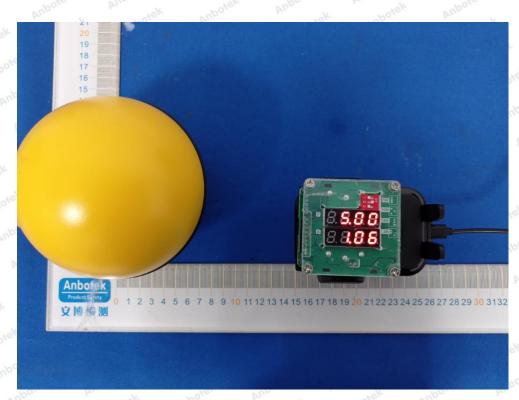


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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement

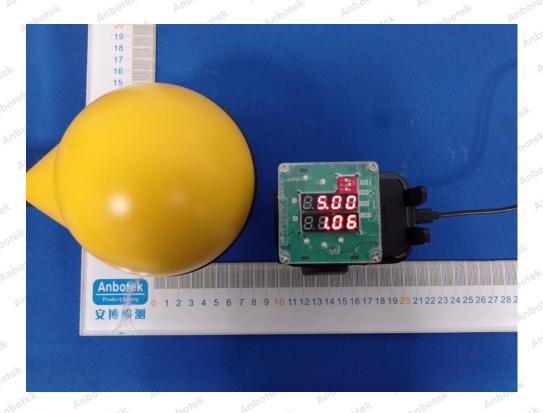


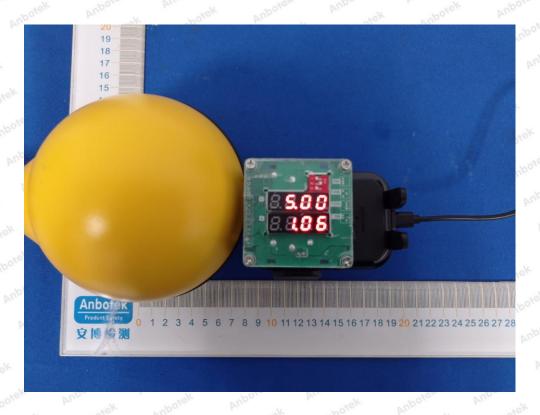


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