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FCC TEST REPORT

Client Name : Ugreen Group Limited

Address UGREEN Building, Longcheng Industrial Park,

Longguanxi Road, Longhua, ShenZhen China 518000

Product Name : Magnetic Wireless Charger

Date : Jul. 19, 2021

Shenzhen Anbotek

Compliance

*Approved**

Laboratory Limited

*Approved**



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TEST REPORT

Applicant : Ugreen Group Limited

Manufacturer : Ugreen Group Limited

Product Name : Magnetic Wireless Charger

Model No. : CD245, 30233

Trade Mark : **UGREEN**

Rating(s) Input: DC 5V/2A, DC 9V/2A, DC 12V/2A

Output :15W Max

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	Jun. 09, 2021
Date of Test	Jun. 09~ 26, 2021
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Prepared By	Anbore And otek) unborek Anbe
k Anbotek Anbotek Anbotek Anbotek	(Ella Liang)
Approved & Authorized Signer	(ingkong)in
Approved & Authorized Signer	Andrew Andrew
	(Kingkong Jin)

Shenzhen Anbotek Compliance Laboratory Limited

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1. General Information

1.1. Client Information

Applicant	: Ugreen Group Limited	Jotes Anbo
Address	UGREEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen China 518000	Anbotek An
Manufacturer	: Ugreen Group Limited	k Ambotek
Address	UGREEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen China 518000	anbotek Anbot
Factory	: SHENZHEN ZHIZE TECHNOLOGY CO., LTD	Anbotek An
Address	1-4F, No.13, Langkou Industrial Park, Langkou Community, Da Longhua District, Shenzhen, China	alang Street,

1.2. Description of Device (EUT)

Product Name	:	Magnetic Wireless Charger	
Model No.	:	CD245, 30233 (Note: All samples are the s "CD245" for test only.)	ame except the model number, so we prepare
Trade Mark	:	UGREEN »	Anbotek Anbotek Anbotek Anbotek Anbote
Test Power Supply	:	AC 120V, 60Hz for adapter/ A	C 240V, 60Hz for adapter
Test Sample No.		1-2-1(Normal Sample), 1-2-2(Engineering Sample)
		Operation Frequency:	111.1-205KHz
Product		Modulation Type:	FSK ANDOLE AND
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

Wireless charging	:	Manufacturer: Shenzhen Ouju Technology Co., Ltd.
load		M/N: CD2577
		Power: 5W/7.5W/10W/15W
		Last Cal.: Oct. 26, 2020
		Cal. Interval: 1 Year
Adapter	:	M/N: HA712
		Input: 100-240V~ 50/60Hz, 1.5A
		Output : 5V3A, 9V3A, 12V3A, 15V3A, 20V3.25A,

1.4. Test Equipment List

Item	Equipment	ment Manufacturer N		Serial No.	Last Cal.	Cal. Interval
potek	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	3 Year
A. 2 10	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2020	3 Year
3.00	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2020	3 Year

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	Anbotek	Auprojek	Anbotek
		Ur = 3.8 dB (Vertical)	Anbotes	And	Anborek
Conduction Uncertainty	:	Uc = 3.4 dB	Anbore	and And abotek	Anbotek



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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
- 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
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	I	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).



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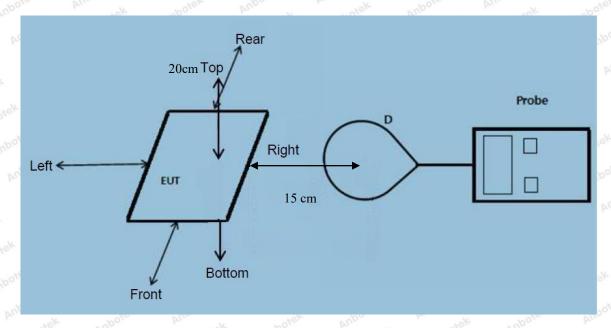
400-003-0500 www.anbotek.com

^{*=}Plane-wave equivalent power density



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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;

TI FUT (C 'C' A D O D I E' C'II

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 111.1-205KHz.
- 2) Output power from each primary coil is less than 15 watts
 - The maximum output power of the primary coil is 15W.

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- 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.

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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:	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 Positio n A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
Anbotek	Anbo	Anbotek	Anbor	PL.	botek	Aupolek	Auprotek	Anbotek
1%	111.1-205	0.35	0.44	0.39	0.40	0.52	307	614
tek Anbo	rek Anbo	ek N	potek	unbore ak	Vu. Potek	Anbotek	Anbo	K L
hotek A	botek Anbi	otek	Motek	Anboro	Arm	K Anbo	len Aupo	otek F
50%	111.1-205	1.41	1.85	1.34	1.47	1.64	307	614
Vur Potek	Anbotek	Aupo	nbote	k Pupo,	VVK VVV	hotek	Anbotek	inbo
An botek	Anbotek	Ambo	ek no	otek Vi	port 1	in-botek	Anborek	Anbe
99%	111.1-205	2.43	2.83	2.44	2.39	2.85	307	614
ok And	notek Anbot	ek An	ou tek	anbotek	Anbore	An Ho	ek Anbote	An)
pore Ar	botek An	potek	Anbo	nbotek	Anbore	DK Dur	potek Anb	J.C.
Stand-by	111.1-205	0.48	0.63	0.47	0.46	0.60	307	614
Aupore.	Ann	Anbotek	Anbo.	rek "uj	otek p	upoje.	Annatek	Anbotek



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

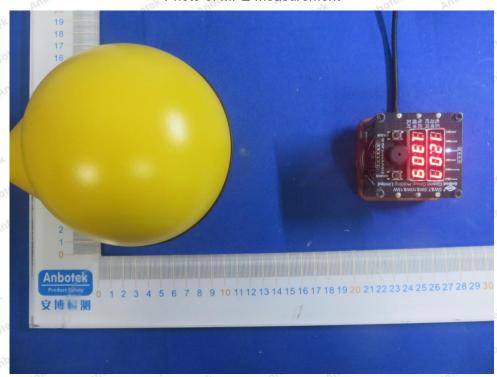
Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
stek Anb	Pupo, Vupo,	rick by	opotek	Aupolen	Ans	Anbotek	Aupon	/r
1%	111.1-205	0.029	0.051	0.057	0.041	0.051	0.815	1.63
hotek	Anbotek	Anbo	h. abotek	Anbore	ak Anu	otek An	potek Ant	o.
Annabotek	Anbotek	Anboatek	nbot	ek Aupo	ie Au	bojek	Anbotek	inbo otek
50%	111.1-205	0.30	0.39	0.29	0.29	0.46	0.815	1.63
V VV	rek Anbore	Aug.	Hek F	aborek	Anbore	Anshotek	Anbotek	Anbe
ok Arr	botek Ant	loter A	loc otek	Anbotek	Anbore	k whoth	k Anbote	P.C
99%	111.1-205	0.44	0.62	0.51	0.33	0.32	0.815	1.63
Anbore	Ann	Anbotek	Anbo	k ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	ek Anb	Ole VIII	hotek A	upotek
Anbore	Andhotek	Anbotek	Anbo	riek vo	potek I	inpose	in potek	Anborek
Stand-by	111.1-205	0.58	0.40	0.50	0.62	0.48	0.815	1.63
ek Anbo	And	tek vo	potek	iupo.	hotek	Anbore	Yun Viek	lna.

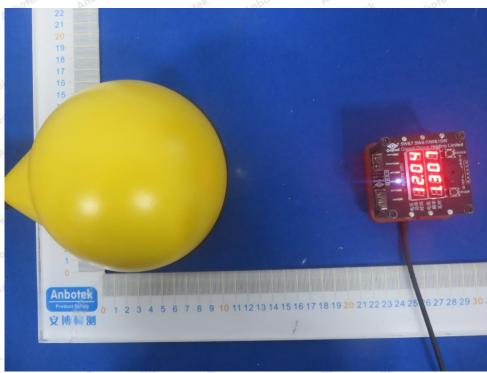


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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement

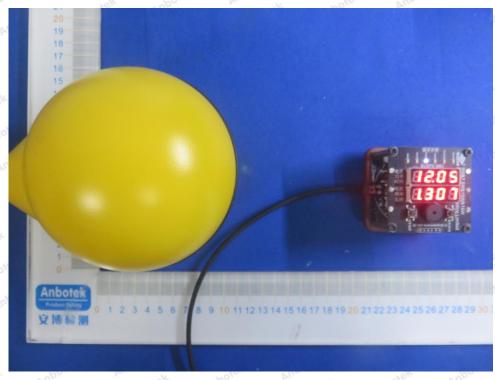


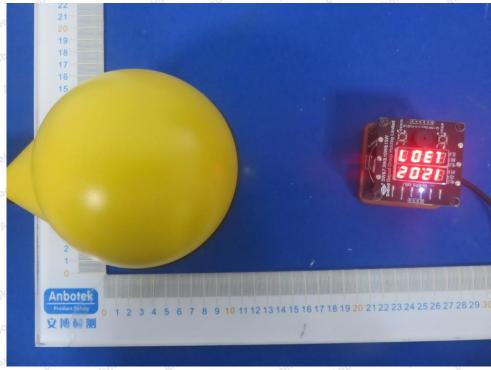


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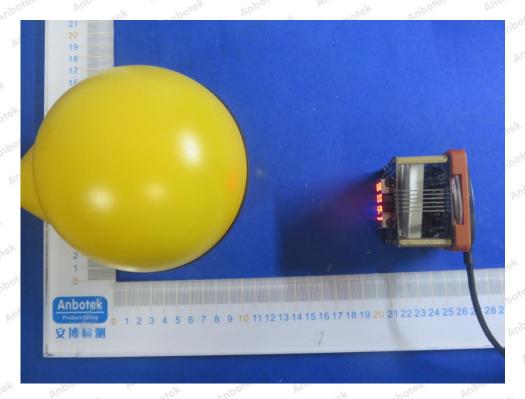
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