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FCC TEST REPORT

Client Name : Ugreen Group Limited

Address UGREEN Building, Longcheng Industrial Park,

Longguanxi Road, Longhua, ShenZhen, China

Product Name : Magnetic Wireless Charger

Date : Jan. 07, 2021

Shenzhen Anbotek Compliance 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

Input Power: 5V==2A, 9V==2A, 12V==2A

Rating(s) : Output Power: 15W Max
Output for iOS Devices: 7.5W

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	Nov. 12, 2021
Date of Test	Nov. 12~ 24, 2021
	Ella Liang
Prepared By	tek upotek Janbo ak hotek
Anbotek Anbotek Anbotek Anbotek	(Ella Liang)
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Approved & Authorized Signer	of a political property of the
	(Kingkong Jin)



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1. General Information

1.1. Client Information

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Applicant	:	Ugreen Group Limited
Address	:	UGREEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China
Manufacturer	:	Ugreen Group Limited
Address	:	UGREEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China
Factory	i	SHENZHEN ZHIZE TECHNOLOGY CO., LTD
Address		1-4F, No.13, Langkou Industrial Park, Langkou Community, Dalang Street, Longhua District, Shenzhen, China

1.2. Description of Device (EUT)

	0.51		- 17							
Product I	Name	:	Magnetic Wireless Charger	Anbotek Anbotek Anbotek Anbote						
Model No	ο.	:	CD245, 30233 (Note: All samples are the sa "CD245" for test only.)	ame except the model number, so we prepare						
Trade Ma	ark	•••	UGREEN	tek Anbotek Anbotek Anbotek						
Test Pow	ver Supply		AC 120V, 60Hz for adapter	bote Anbotek Anbotek Anbotek						
Test San	nple No.	•••	1-2-1(Normal Sample), 1-2-2(l	1-2-1(Normal Sample), 1-2-2(Engineering Sample)						
d			Operation Frequency:	111-205KHz						
o o			Modulation Type:	FSK						
Product Description	on	:	Antenna Type:	Inductive loop coil Antenna						
2 333	Somption		Antenna Gain(Peak):	0 dBi(Provided by customer)						
3)			Adapter:	N/A are Andrew Andrew Andrew						
Pri	4) =		of the sales	por principality of the Miles						

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

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1.3. Auxiliary Equipment Used During Test

Adapter	:	M/N: A2013	ek
		Input: AC 100-240V, 0.7A, 50-60Hz	
		Output: 3.6-5.5V=3A/ 6.5-9V=2A/ 9-12V=1.5A	
Mobile phone	:	Manufacturer: HUAWEI TECHNOLOGIES CO., LTD.	anb
		M/N: YOK-AN10	

1.4. Test Equipment List

Iten	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Electric and Magnetic field Analyzer	NARDA	EHP-200A	180ZX10202	Feb. 24, 2021	1 Year

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	Anbarrotek	anbotek	Aupole
		Ur = 3.8 dB (Vertical)	k And botek	Anbotek	Anbo
Conduction Uncertainty	:	Uc = 3.4 dB	Aug Potel	Anbotek	Anbo



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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 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



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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 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	I	I	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	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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Hotline

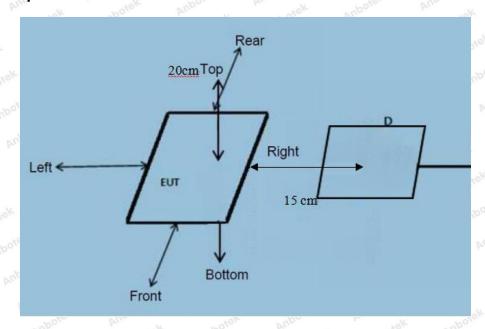


^{*=}Plane-wave equivalent power density



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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;

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 111-205KHz.
- 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	nbotek	Anbor	Alle	notek	Aupolek	Anbo	anbotek
1%	111-205	0.38	0.45	0.40	0.43	0.56	307	614
otek Anbo	lek Wupo,	iek k	botek	Anbore.	Ann	Anbotek	Aupo.	K vap
hotek A	lbotek Anbe	rek p	nbotek	Anbore	Pur Pote	k Anbo	lek Aupon	ntel ^k
50%	111-205	1.46	1.88	1.39	1.45	1.69	307	614
Ann	Anbotek	Anbo. Tek	A. anbore	E Anbo	e. Viun	hotek	Anbotek	inbo. stek
Ame	Anbotek	Ambo	ek nob	otek Ar	port I	notek.	Anbotek	Anbo
99%	111-205	2.49	2.89	2.48	2.50	2.92	307	614
Ye. And	ootek Anbot	ek An	oo. tek	abotek	Anbote.	YUL PO	ek Anbote	Anlo
poore An	hotek An	oolek	Anbo	w. Vupotek	Anbore	Dr.	poiek Anb	ster p
Stand-by	111-205	0.42	0.55	0.42	0.41	0.56	307	614
Aupote.	Andhotek	Anbotek	Aupo.	rek and	otek P	upoje.	Ann	Anbotek



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

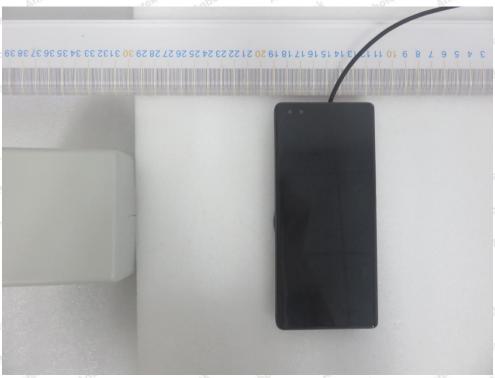
		P-71.					W/1 W/1	
Dottom	Frequency	Test	Test	Test	Test	Test	Reference	Limits
Battery	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	Α	В	С	D	Е	(A/m)	(A/m)
otek Anb	otek Anbe	-tek	opotek	Anbore -k	Answork	Anbotek	Anbo	. K
1%	111-205	0.026	0.046	0.056	0.039	0.046	0.815	1.63
hotek .	Anbotek	Aupo.	anbotek.	Anbore.	ak And	otek An	potek Ant	o.
And	Anbotek	Anboatek	anbot.	ak Anbo	ek An	shorek	Anbotek	inbo otek
50%	111-205	0.39	0.44	0.34	0.34	0.53	0.815	1.63
PU.	tek Anbote	k Aupo	-tek	abotek	Anbore	Ar. Potek	Anbotek	Anbe
ole Wur	botek Ant	loter M	loo stek	Motek	Anbore			
99%	111-205	0.53	0.67	0.53	0.36	0.38	0.815	1.63
Anbore	Arr. Potek	Anbotek		k who!	ek Anb		notek p	
Anbore	And	Anborek	Anbo	otek on	potek I	mbore	You Potek	Anborek
Stand-by	111-205	0.51	0.36	0.45	0.50	0.42	0.815	1.63
Jek Aupo	And	otek an	potek !	inpo.	abotek			



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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement





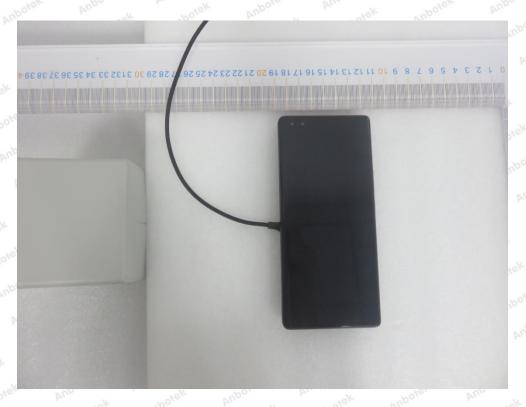
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