

 Report No.: 18220WC20010102
 FCC ID: 2AQI5-CD144
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FCC TEST REPORT

Client Name	: Ugreen Group Limited
Address	. Ugreen Building, Longcheng Industrial Park, Longguanxi
Address And	[·] Road, Longhua, ShenZhen, China

- Product Name : Magnetic Charging Module
 - Date : Feb. 11, 2022



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TEST REPORT

Applicant	: Ugreen Group Limited
Manufacturer	: Ugreen Group Limited
Product Name	: Magnetic Charging Module
Model No.	: CD144, 50944
Trade Mark	UGREEN
Rating(s)	: Input: DC 5V, 1A

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 Date of Test Jan. 13, 2022 Jan. 13~27, 2022

Ella Lano

Prepared By

(Ella Liang)

(Kingkong Jin)

Approved & Authorized Signer

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1. General Information

1.1. Client Information

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	:	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)

Product Name	: Magnetic Charging Module	Anboten Anto tek Anbotek Anbo
Model No.	CD144, 50944 (Note: All samples are the "CD144" for test only.)	same except the model name, so we prepare
Trade Mark	UGREEN	
Test Power Supply	: DC 5V via HUB	Anboistek Anbotek Anboten Anbo
Test Sample No.	1-2-1(Normal Sample), 1-2	2-2(Engineering Sample)
	Operation Frequency:	110.1-205KHz
Product	Modulation Type:	Bot FSK Anbotek Anbotek Anbotek
Description	Antenna Type:	Inductive loop coil Antenna
	Antenna Gain(Peak):	0 dBi (Provided by customer)

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

Apple Watch	:	M/N: WR-50M	Anbo	botek	Anbore	Americkek
HUB	:	UGREEN50985	Anbors	Annotek	anboten	And

1.4. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
hbotek 1	Electric and Magnetic field	NARDA	EHP-200A	180ZX10202	Feb. 24, 2021	1 Year
Anbore	Analyzer	Anboten Anbo	kek spotel	Anbors	Amenotek	Anboten

1.5. Measurement Uncertainty

Magnetic Field Reading(A/m)	:	+/-0.04282(A/m)	Anbotek	Anbo	Anbotek	Aup
Electric Field Reading(V/m)	:	+/-0.03679(V/m)	Anboten	And	Anbotek	P

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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.

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	upational/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	Ι	1	f/300	6
1500-100,000	1	7	5	6
	(B) Limits for Genera	I Population/Uncontrolle	d Exposure	

Limits For Maximum Permissible Exposure (MPE)

*(100) 0.3-1.34 614 1.63 30 *(180/f²) 1.34-30 824/f 2.19/f 30 30-300 27.5 0.073 0.2 30 1 1 300-1500 f/1500 30 1500-100,000 1 1.0 30

F=frequency in MHz

*=Plane-wave equivalent power density

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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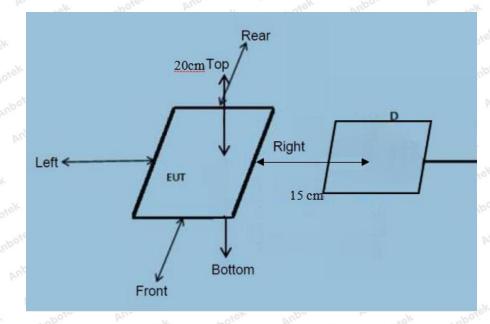
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2.2. Test Setup



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 110.1-205KHz.
- 2) Output power from each primary coil is less than 15 watts
- The maximum output power of the primary coil is 5W.

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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:	DC 5V via HUB

E-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 (V/m)	Limits Test (V/m)
1%	110.1-205	0.44	0.53	0.48	0.49	0.61	307	614
50%	110.1-205	1.37	1.81	1.30	1.43	1.60	307	614
99%	110.1-205	2.49	2.89	2.50	2.45	2.91	307,000	614
Stand-by	110.1-205	0.49	0.64	0.48	0.47	0.61	307	614

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)
1%	110.1-205	0.03	0.05	0.05	0.04	0.05	0.815	1.63
50%	110.1-205	0.39	0.48	0.38	0.38	0.55	0.815	1.63
99%	110.1-205	0.47	0.65	0.54	0.36	0.35	0.815	1.63
Stand-by	110.1-205	0.55	0.37	0.47	0.59	0.45	0.815	1.63

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Photo of MPE Measurement

APPENDIX I -- TEST SETUP PHOTOGRAPH

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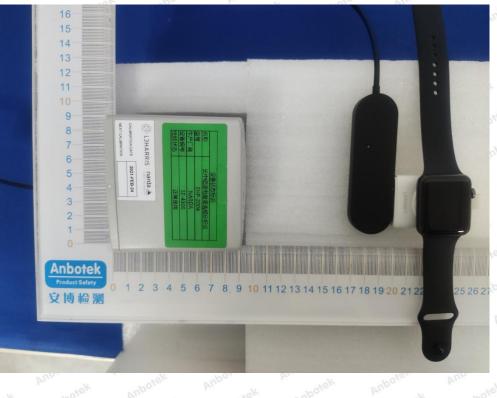
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