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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 : 10000mAh Magnetic Wireless Power Bank

Date : Oct. 04, 2021





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TEST REPORT

Ugreen Group Limited **Applicant**

Ugreen Group Limited Manufacturer

Product Name 10000mAh Magnetic Wireless Power Bank

PB195, 40826 Model No.

UGREEN Trade Mark

> USB-C(IN) Input: 5.0V == 3.0A, 9.0V == 2.22A, 12.0V == 1.5A USB-C(OUT1)Output:5.0V = 3.0A, 9.0V = 2.22A, 12.0V = 1.5A

USB-A(OUT2)Output:5.0V 3.0A, 9.0V 2.0A, 12.0V 1.5A, Rating(s)

4.5V 5.0A, 5.0V 4.5A

Total Output: 5.0V = 2.4A Max Magnetic Wireless Output: 10W Max

Test Standard(s) FCC Part 1.1310, 1.1307(b)

KDB680106 D01 RF Exposure Wireless Charging Apps v03 Test Method(s)

November 2019 TCB Workshop

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, November 2019 TCB Workshop 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. 18, 2021
Date of Test		Jun.	18~Sept. 27, 20

Ella Prepared By

(Ella Liang)

Approved & Authorized Signer (Kingkong Jin)

Shenzhen Anbotek Compliance Laboratory Limited



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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 518000
Manufacturer	:	Ugreen Group Limited
Address	:	UGREEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen China 518000
Factory		Shenzhen Blue Times Technology Co., Ltd.
Address		7/F, B block, Taixinglong Industrial Zone, Nan Bu Gang, Zhongwu Village, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province, China.

1.2. Description of Device (EUT)

Product Name	:	10000mAh Magnetic Wireless	s Power Bank
Model No.	:	PB195, 40826 (Note: All samples are the sa "PB195" for test only.)	ame except the model number, so we prepare
Trade Mark	:	UGREEN	Anbotek Anbotek Anbotek Anbotek
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:	111-205KHz
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 or the User's Manual.







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1.3. Auxiliary Equipment Used During Test

Adapter	:	M/N: HCE452
		Input: 100-240V~ 50/60Hz, 1.5A
		Output : 5V==3A, 9V==3A, 12V==3A, 15V==3A,
Wireless charging	:	Manufacturer: Gopod Group Holding Limited.
load		M/N: DTE324EM
		Power: 5W/7.5W/10W/15W
V		Last Cal.: Oct. 30, 2020
		Cal. Interval: 1 Year

1.4. Test Equipment List

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

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	Anbotek	Anberrotek	anbotek
		Ur = 3.8 dB (Vertical)	Anbote	Aur	Anbotek
Conduction Uncertainty	:	Uc = 3.4 dB	Anbore	ak 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
- 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 Occupational/Controlled Exposures										
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	f/300	6						
1500-100,000	/	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	1	1	f/1500	30						
1500-100,000	/	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

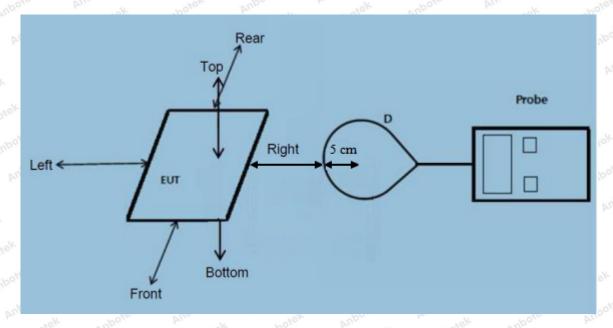
400-003-0500 www.anbotek.com

⁼Plane-wave equivalent power density



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2.2. Test Setup



Note:

The measured probe with 5cm radius measurement head.

The test separation distance is measured from the edge of the probe head to the edge of the device:0cm, 2cm, 4cm, 6cm, 8cm, 10cm.

2.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at required test distance (0cm, 2cm, 4cm, 6cm, 8cm, 10cm) which is from the edge of the probe to the edge of the device.
- 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
- 4) The EUT was measured according to the dictates of TCB Workshop November 2019 and KDB 680106 D01 v03r01.

Remark;

The EUT's test position A, B, C, D and E is valid for the H field measurements.



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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 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 portable 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 2.4.2.



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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

H-Field Strength at 0 cm

00	Power	Frequency Range	Test Position	Test Position	Test Position	Test Position	Test Position	Reference Limit	Limits Test
	Level	(KHz)	And Arek	В	C	iek D Anl	oter E An	(A/m)	(A/m)
	100%	111-205	0.49	0.67	0.56	0.38	0.37	0.815	1.63

H-Field Strength at 2 cm

o pi	Frequency	Test	Test	Test	Test	Test	Reference	Limits
Power Level	Range	Position	Position	Position	Position	Position	otel* Limit prob	Test
Anbovor	(KHz)	An A	ABote	C ombo	ek D Anb	E W.	(A/m)	(A/m)
100%	111-205	0.48	0.66	0.55	0.36	0.35	0.815	1.63

H-Field Strength at 4 cm

Power Level	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)
100%	111-205	0.46	0.64	0.53	0.32	0.31	0.815	1.63

H-Field Strength at 6 cm

Power Level	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)
100%	111-205	0.44	0.63	o.51	0.30	0.29	0.815	1.63

H-Field Strength at 8 cm

Power Level	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)
100%	111-205	0.43	0.61	0.50	0.28	0.27	0.815	1.63

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H-Field Strength at 10 cm

Power Level	Frequency	Test	Test	Test	Test	Test	Reference	Limits
	Range (KHz)	Position A	Position B	Position C	Position D	Position E	Limit (A/m)	Test (A/m)
100%	111-205	0.42	0.59	0.48	0.25	0.25	0.815	1.63

Note:

- (1) Position E is Top surface.
- (2) 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.
- (3) All Position A, B, C, D, E have been performed testing. Since testing side A, B, C, D are similar, so we only display testing photos with Position A (Right side) & Position E (Top surface) in the report, see below photos.

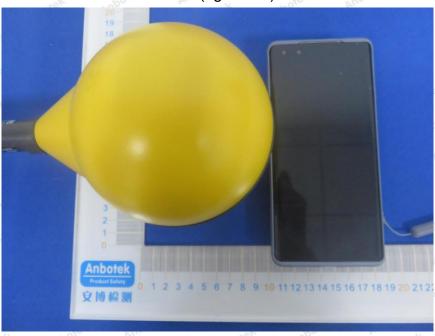


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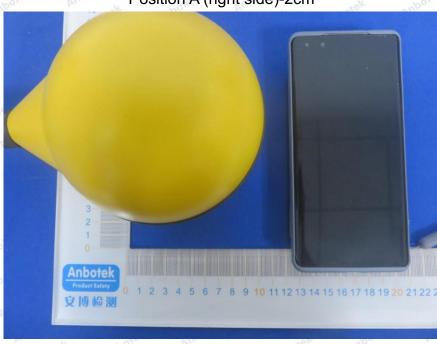
APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement

Position A (right side)-0cm



Position A (right side)-2cm



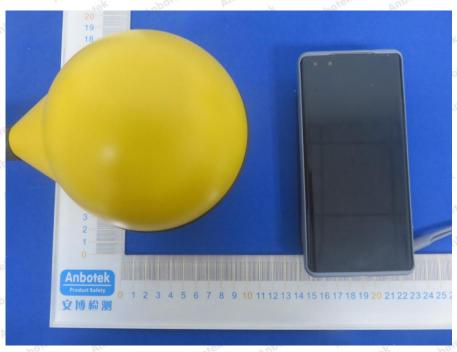
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Position A (right side)-4cm









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Position A (right side)-8cm

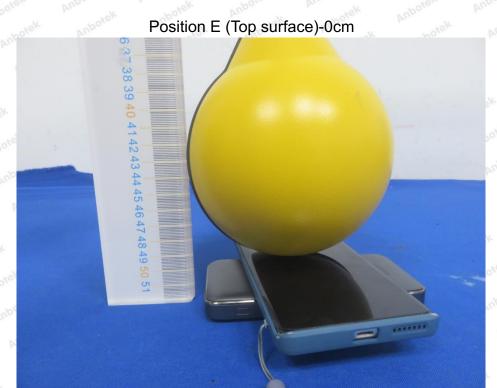


Position A (right side)-10cm





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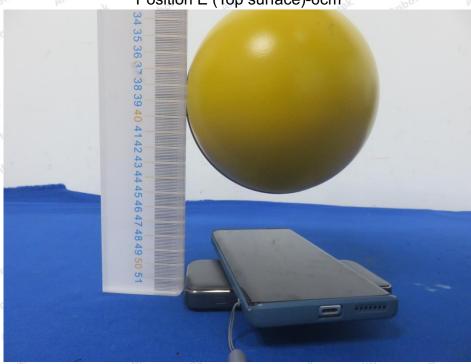


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Position E (Top surface)-4cm

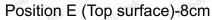


Position E (Top surface)-6cm



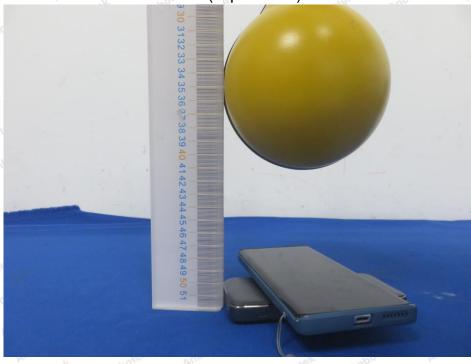


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Position E (Top surface)-10cm



-- End of Report

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