

 Report No.: 18220WC00169202
 FCC ID: 2AOKB-A8803
 Page 1 of 12

FCC TEST REPORT

Client Name	Anbote	nker Innovati	ons Limited		
Anbotek Anbo	hotek l	inbotek Ant	otek Anbo		
Address			, Hollywood F loon, Hong Ko		athan Road,
		Anbe	Anbotek	Anbor P	

- Product Name : USB-A Portable Magnetic Charger
 - Date : Dec. 08, 2020



Shenzhen Anbotek Compliance Laboratory Limited

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Code:AB-RF-05-a



FCC ID: 2AOKB-A8803

Page 2 of 12

Contents

1. General Information	Anbo		uppon.	Plos		4
1.1. Client Information	polooter	Ant		Anbo.		4
1.2. Description of Device (EUT)	botek	Aupo.		ne ^k	ote	4
1.3. Auxiliary Equipment Used During	g Test	lek pobo	te. Pur		nbotek	5
1.4. Test Equipment List	Ne. Pur		potek	mbo	n' watek	5
1.5. Measurement Uncertainty	hotek A	100° 10	Hotek	phote	Ann	5
1.6. Description of Test Facility		Aupore	Ann	Arbotek	Anbo	6
2. Measurement and Result	Ann	habotek	Anbo		4 000	7
2.1. Requirements	Aupr	to dek	Anbore	Phr.	Mak.	7
2.2. Test Setup	Anbore	bu	N	oten Anb		8
2.3. Test Procedure	ott	en Anbe			nbore	8
2.4. Test Result		otek M	p ^{ore} P		unboten	8
2.4.1. Equipment Approval Considera	ations item 5.	b of KDB 68	0106 D01 v	03	tootel	8
2.4.2. Environmental evaluation and	l exposure li	mit accordin	g to FCC	CFR 47 par	t 1, 1.130	7(b),
1.1310	hotek	Anbor	- p	nbote	Ant	10
APPENDIX I TEST SETUP PHOTOGRA	APH	anboten	Anv		tek A	12

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Code:AB-RF-05-a



FCC ID: 2AOKB-A8803

Page 3 of 12

TEST REPORT

Applicant :	Anker Innovations Limited
Manufacturer :	Anker Innovations Limited
Product Name :	USB-A Portable Magnetic Charger
Model No. :	A8803, A8804
Trade Mark :	ANKER
Rating(s) :	Input: DC 5V, 1A Wireless output: 5W Max

Test Standard(s)	1	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

Nov. 13, 2020 Nov. 13~30, 2020

Tilia Zhong

Prepared By

Reviewer

(Engineer / Yilia Zhong)

Bibs Thank

(Supervisor / Bibo Zhang)

KingKon IA.

(Manager / Kingkong Jin)

Approved & Authorized Signer

Shenzhen Anbotek Compliance Laboratory Limited

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Page 4 of 12

1. General Information

1.1. Client Information

Applicant	Anker Innovations Limited	10
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong	bu.
Manufacturer	Anker Innovations Limited	
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road,Mongkok, Kowloon, Hongkong	otel

1.2. Description of Device (EUT)

Product Name	:	USB-A Portable Magnetic C	harger
Model No.	:	A8803, A8804 (Note: All samples are the "A8803" for test only.)	same except the charging port, so we prepare
Trade Mark	:	ANKER	Anbotek Anbo
Test Power Supply	:	AC 120V, 60Hz for adapter	ek Anbore Annotek Anbotek Anboten An
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2	2(Engineering Sample)
		Operation Frequency:	111-205KHz
Product		Modulation Type:	FSK Antonia Antonia Antonia
Description	•	Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	0 dBi monet Andor

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Code:AB-RF-05-a



Report No.: 18220WC00169202 FCC ID: 2AOKB-A8803 Page 5 of 12

1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: Anker Innovations Limited
		M/N: A2013 Input: 100-240V-0.7A 50-60Hz
v.		Output: 3.6-5.5V=3A / 6.5-9V=2A / 9-12V=1.5A
Apple bracelet	:	Totek Anbotek Anbotek Anbotek Anbotek Anbotek

1.4. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	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

Radiation Uncertainty	:	Ur = 3.9 dB (Hor	izontal)	Antowotek	Anbotek Anbor
		Ur = 3.8 dB (Ver	tical)	k hotek	Anbotek Anb
		Anbo, otek	nbotek Anbote	And And botek	Anbotek
Conduction Uncertainty	:	Uc = 3.4 dB	Anbotek Anb	or Arr	tek Anboten k

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Code:AB-RF-05-a



FCC ID: 2AOKB-A8803

Page 6 of 12

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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Code:AB-RF-05-a



FCC ID: 2AOKB-A8803

Page 7 of 12

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	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	<mark>f</mark> /300	6
1500-100,000	1	1	5	6
	(B) Limits for Genera	I Population/Uncontrolle	ed 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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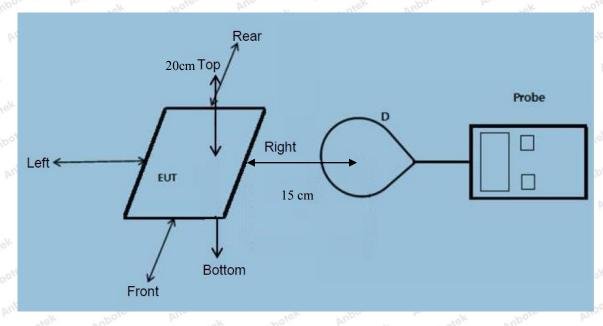
Code:AB-RF-05-a

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Anbotek Product Safety

 Report No.: 18220WC00169202
 FCC ID: 2AOKB-A8803
 Page 8 of 12

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 5W.

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Code:AB-RF-05-a



Report No.: 18220WC00169202 FCC ID: 2AOKB-A8803 Page 9 of 12

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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Code:AB-RF-05-a



Report No.: 18220WC00169202 FCC ID: 2AOKB-A8803 Page 10

Page 10 of 12

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

Temperature:	23.8°C	Relative Humidity:	52 %
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

					201		1	Per l
otek Anb	Frequency	Test	Test	Test	Test	Test	Reference	Limits
Battery	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	Anbo A	Botek	Cibote	D	otek E	(V/m)	(V/m)
Ansabotek	Anbotek	Anbo	Anbot	sk Aupo	rek An	abotek	Anboten	Anbo
1%	111-205	0.35	0.44	0.39	0.40	0.52	307	614
PUT PUT	tek Anboth	Anbe Anbe	-otek	nbotek	Anbore	Antobotek	Anbotek	Anbo
Nek Pr.	botek Ant	oter pi	wotek.	Anbotek	Anbo	k sibo	rek Anbote	K AND
50%	111-205	1.37	1.81	1.30	1.43	1.60	307	614
Anbore	Antobotek	Anbotek	Anbo	4 Anbo	ek Anb	oto Al	botek	Inbotek
Anbors	anobotek	Anboten	Ano	otek an	potek I	inpost	An abotek	Anboten
99%	111-205	2.37	2.77	2.38	2.33	2.79	307	614
ek Anbo	And And	otek An	potek i	nbo. stek	Anbotek	Anboto	ek shote	Anbr
botek An	bon bu	Abotek.	Anboten	Anburgtek	Anbote	Aupo	sek sto	stek p
Stand-by	111-205	0.40	0.55	0.39	0.38	0.52	307	614
Anbotek	Anbote	Ant	Anbotel	Anbo	otek p	nbotek	Anboto A	nubotek

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Code:AB-RF-05-a



Report No.: 18220WC00169202 FCC ID: 2AOKB-A8803 Page 11 of 12

		P.C.Y		200	Pro-		0.0	
Bottony	Frequency	Test	Test	Test	Test 📈	Test	Reference	Limits
Battery	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	А	otek B Ar	C	D	AntErek	(A/m)	(A/m)
stek Anb	otek Anboi	rek bu	obotek	Anboren	Antonotek	Anbotek	Anboa	K
1%	111-205	0.029	0.051	0.057	0.041	0.051	0.815	1.63
nu hotek	Anbotek	Anbor		Anbote	Anu	otek An	potek Ant	o'
Annotek	Anbotek	Anbo	nbot	ek Aupo	no. An	botek	Anbotek	inbo otek
50%	111-205	0.36	0.45	0.35	0.35	0.52	0.815	1.63
An-	tek Anboth	Anbc		abotek	Anbore	Anthotek	Anbotek	Anbo
Re. Ann	hotek Ant	otek At	ibu stek	Anbotek	Anbore	k hot	k Anbote	P.C
99%	111-205	0.51	0.69	0.58	0.40	0.39	0.815	1.63
Anboten	Anoshotek	Anbotek		k stoo	ek Anb	oter Ani	Lotek p	nbotek
Anboton	Anubotek	Anbotek	Aupo	Jek pi	potek I	nbote	And hotek	Anbotek
Stand-by	111-205	0.47	0.29	0.39	0.51	0.37	0.815	1.63
ek Aupol	e. Ano	otek An	potek	inbo, tek	abotek	Anboten	Anu hotel	Ant

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

Note: All models have been tested, and only worst data (model: A8803) listed in report.

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Code:AB-RF-05-a



 Report No.: 18220WC00169202
 FCC ID: 2AOKB-A8803
 Page 12 of 12

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files for Test Setup Photos of the EUT.

----- End of Report ------

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