

 Report No.: 18220WC00057602
 FCC ID: 2ARI5-AO2001
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FCC TEST REPORT

Client Name	: Shenzhen Lingyi Innovation Tech Co., Ltd.
Address	12 F, Block C, Central Avenue Building, Xixiang BLVD
hotek Anbotek P	West, Baoan District, Shenzhen, China
Product Name	Charging Station

Date : Jun. 18, 2020



Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant

Manufacturer

Product Name

Model No.

Shenzhen Lingyi Innovation Tech Co., Ltd.

Shenzhen Lingyi Innovation Tech Co., Ltd.

PITAKA

Charging Station

AO2001

Pitaka,

Trade Mark

Input: DC 15V, 4.3A Lightning Output/Type-C Output: DC 5V, 3A or DC 9V, 2A or DC 12V, 1.5A Apple Watch Output: 5W Wireless Output1: 5W or 7.5W or 10W Wireless Output2: 5W Type-C 2 Output: DC 5V, 3A or DC 9V, 2A or DC 12V, 1.5A USB-A Output: DC 5V, 3A or DC 9V, 2A or DC 12V, 1.5A Type-C 2 and USB-A Output: DC 5V, 3A in total

Rating(s)

Test	Standard(s)	1
Test	Method(s)	D

FCC Part 1.1310, 1.1307(b) 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

Date of Receipt Date of Test

Prepared By

Reviewer

May 22, 2020 May 22~Jun. 09, 2020

Doly mo

(Engineer / Dolly Mo)

(Supervisor / Bibo Zhang)

(Manager / Tom Chen)

Shenzhen Anbotek Compliance Laboratory Limited

Approved & Authorized Signer

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approval of Shenzhen Anbotek Compliance Laboratory Limited.

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1. General Information

1.1. Client Information

Applicant	Shenzhen Lingyi Innovation Tech Co., Ltd.
Address	12 F, Block C, Central Avenue Building, Xixiang BLVD West, Baoan District, Shenzhen, China
Manufacturer	Shenzhen Lingyi Innovation Tech Co., Ltd.
Address	12 F, Block C, Central Avenue Building, Xixiang BLVD West, Baoan District, Shenzhen, China
Factory	Shenzhen Lingyi Innovation Tech Co., Ltd.
Address	12 F, Block C, Central Avenue Building, Xixiang BLVD West, Baoan District, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Charging Station	Ambotek Ambotek Ambotek Ambote				
Model No.	:	AO2001	ntek Anbor An Anbotek Anbotek Anbotek Anbotek An				
Trade Mark	:	Pitaka, Pitaka	a.com				
Test Power Supply	:	AC 120V, 60Hz for adapter	Anbotek Anbotek Anbotek Anbotek				
Test Sample No.	:	1-2-1(Normal Sample), 1-2-	1-2-1(Normal Sample), 1-2-1(Engineering Sample)				
	•	Operation Frequency:	110.1-205KHz				
Product		Modulation Type:	QI hotek hubotek hubotek				
Description		Antenna Type:	Inductive loop coil Antenna				
		Antenna Gain(Peak):	0 dBi Andorek Andorek Andorek Andorek Andorek				
Remark: 1) For a mo	ore	detailed features description	n, please refer to the manufacturer's specifications				

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1.3. Auxiliary Equipment Used During Test

Adapter	: Model: AD0651-1504300I	Anboro	Ann
	Input:100-240V~50/60Hz 1.5A Max.		
	Output: DC 15V, 4.3A, 64.5W	h. botek	

1.4. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1 1 te	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	1 Year
2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2017	3 Year
3	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2017	3 Year

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	And hotek Anbotek	Anbor
		Ur = 3.8 dB (Vertical)	Ant botek Anbot	ek Anbo
		otek anbotek Anboto	k spotek An	poten Anbo
Conduction Uncertainty	:	Uc = 3.4 dB	tek anbotek	Anboten Anu

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 27, 2019.

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, March 07, 2019.

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	1	1	f/300	6
1500-100,000	7	7	5	6
	(B) Limits for Genera	I 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	/	/	f/1500	30
1500-100,000	7	1	1.0	30

Limits For Maximum Permissible Exposure (MPE)

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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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 10W.

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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 is an end-product that includes three pairs of source-client WPT coils. The three coil pairs can powered on at the same time and always operate independently of each other.

- 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 Power Pack with Charging Station

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:	23.8°C	Relative Humidity:	54%
Pressure:	1012 hPa	Test Voltage:	AC 120V, 60Hz for adapter

Remark: All the conditions have been tested. It is found that Apple Watch Output(5W), Wireless Output1(10W) and Wireless Output2(5W) work simultaneously is the worst mode, and the data in the report only reflects the worst mode.

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)
Anbotek	Anbo	Anbotek	Anboro	ek ob	stek An	poter I	inbo hotek	Anbotek
1%	110.1~205	0.35	0.32	0.27	0.47	0.93	307	614
Anboter	Anbo	K pobc	tek An	por p	hotek	Anboten	And	, nobot
ek Anbo	ten Anbu	stek N	hotek	Anbore	Annabotek	Anbote	Anbu	14
50%	110.1~205	1.54	1.32	1.26	1.30	1.58	307	614
hotek	Anbotek	Anburgek	h abotek	Anbore	An	otek p	nbotek An	-tek
And botek	Anbotek	Anbo	h. nbote	k Aupo	to An	botek	Anbotek	Anbu
99%	110.1~205	2.21	2.15	2.12	2.29	2.04	307	614
Ant ho	ek Anbote	K Anbo	stek.	abotek	Anbore.	Any hotek	Anbotek	Anbo
Ans	botek Anb	otek Ar	bu stek	nbotek	Anbore	K Ant	tek Anbote	in Ant
Stand-by	110.1~205	0.47	0.39	0.76	0.42	0.55	307	614
Anbore.	Anthotek	Anbotek	Anbo.	r nibol	ek Anb	oto pi	botek	Inbotek

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	0	A STATE						
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	0.043	0.059	0.045	0.050	0.067	0.815	1.63
50%	110.1~205	0.24	0.56	0.32	0.48	0.41	0.815	1.63
99%	110.1~205	0.49	0.53	0.57	0.35	0.50	0.815	1.63
Stand-by	110.1~205	0.25	0.18	0.32	0.36	0.34	0.815	1.63

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

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Photo of MPE Measurement

APPENDIX I -- TEST SETUP PHOTOGRAPH

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

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