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 FCC ID: 2ASQY-WD500
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FCC Test Report

Client Name	Shenzhen Lanlian Digital Technology Co., Ltd.
Client Address	 424, Qingfeng Building, 11 Longgang Rd., Pingnan Community, Longgang Subdistrict, Longgang District, Shenzhen, China
Product Name	: Wireless Charging Clock Speaker
Report Date	: Aug. 09, 2022





Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant	: Shenzhen Lanlian Digital Technology Co., Ltd.
Manufacturer	: Dongguan Chuanglian Technology Co., Ltd.
Product Name	: Wireless Charging Clock Speaker
Model No.	: WD-500, WD-500A, WD-500B, WD-500C, WD-500D, WD-500S
Trade Mark	: N.A Input: 9V2A
Rating(s)	USB output: 5V- 1A Wireless output: 10W Max
	Battery capacity: DC 3.7V, 50mAh
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

Jun. 27, 2022 Jun. 27~Jul. 08, 2022

Tu Tu Hong

Prepared By

(TuTu Hong)

(Kingkong Jin)

Shenzhen Anbotek Compliance Laboratory Limited

Approved & Authorized Signer

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1. General Information

1.1. Client Information

Applicant	:	Shenzhen Lanlian Digital Technology Co., Ltd.
Address	:	424, Qingfeng Building, 11 Longgang Rd., Pingnan Community, Longgang Subdistrict, Longgang District, Shenzhen, China
Manufacturer	:	Dongguan Chuanglian Technology Co., Ltd.
Address	:	Level 3,Building 3,No.19 Jinpeng Road,Fenggang Town, Dongguan, Guangdong, China
Factory	:	Dongguan Chuanglian Technology Co., Ltd.
Address	:	Level 3,Building 3,No.19 Jinpeng Road,Fenggang Town, Dongguan, Guangdong, China

1.2. Description of Device (EUT)

Product Name	: Wireless Charging Clock S	Speaker
Model No.	ALL	00B, WD-500C, WD-500D, WD-500S same except the model number & appearance, so est only.)
Trade Mark	: N.A	unbotek Anbois Annotek Anbotek Anbotek
Test Power Supply	: AC 120V, 60Hz for adapte	Anbotek Anbotek Anbotek Anbotek
Test Sample No.	: 1-2-1(Normal Sample), 1-2	2-2(Engineering Sample)
	Operation Frequency:	BT: 2402~2480MHz WPT: 110.1~149khz
	Number of Channel:	BT BDR+EDR: 79 Channels BT BLE: 40 Channels
Product	Modulation Type:	BT BDR+EDR: GFSK, π/4-DQPSK, 8DPSK BT BLE: GFSK WPT: ASK
Description	Antenna Type:	BT: PCB Antenna WPT: Inductive loop coil Antenna
	Antenna Gain(Peak):	BT: -0.68 dBi (Provided by customer) WPT: 0dBi (Provided by customer)
	Adapter:	Model: RY18B090200VU Input: 100-240V~50/60Hz 0.5A Output: 9V2A

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

Mobile phone	:	MI 11	Anbotek	Anbo	photok	Anboro	Ann
ND.	105	- 10 - 2	N.4.		011	101	- 0 -

1.4. Test Equipment List

0	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	potek	Electric and	potek Anboter	Ant and anotek	Anbotek	Anbo, I	nbotek
	Anbotel	Magnetic field Analyzer	NARDA	EHP-200A	180ZX10202	Nov. 12, 2021	1 Year

1.5. Measurement Uncertainty

Magnetic Field Reading(A/m)	:	+/-0.04282(A/m)	Anboistek	Annobotek	Anboten Ano
Electric Field Reading(V/m)	:	+/-0.03679(V/m)	Anbo. otek	h. Anbotek	Anbote. 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	1	1	f/300	6
1500-100,000	1	1	5	6
	(B) Limits for Genera	l Population/Uncontrolle	ed Exposure	
	a stranger to a			

Limits For Maximum Permissible Exposure (MPE)

0.3-1.34 614 1.63 *(100) 30 *(180/f²) 1.34-30 824/f 2.19/f 30 30-300 27.5 0.073 0.2 30 1 1 30 300-1500 f/1500 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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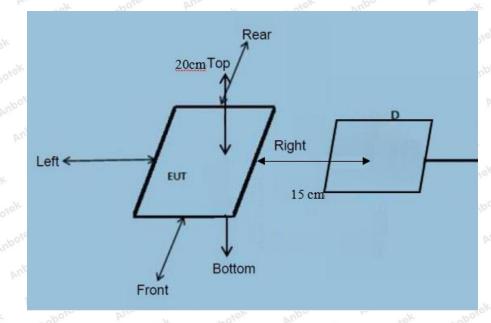
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2.2. Test Setup



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 110.1-149KHz.
- 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 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 Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
1%	110.1-149	0.38	0.47	0.42	0.43	0.55	307	614
50%	110.1-149	1.38	1.82	1.31	1.44	1.61	307	614
99%	110.1-149	2.38	2.78	2.39	2.34	2.80	307,0010	614
Stand-by	110.1-149	0.48	0.63	0.47	0.46	0.60	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%	110.1-149	0.027	0.049	0.055	0.039	0.049	0.815	1.63
50%	110.1-149	0.40	0.49	0.39	0.39	0.56	0.815	1.63
99%	110.1-149	0.43	0.61	0.50	0.32	0.31	0.815	1.63
Stand-by	110.1-149	0.49	0.31	0.41	0.53	0.39	0.815	1.63

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

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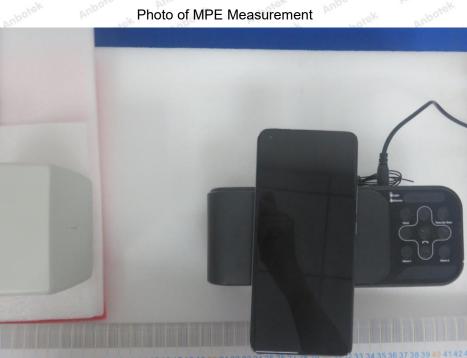


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APPENDIX I -- TEST SETUP PHOTOGRAPH

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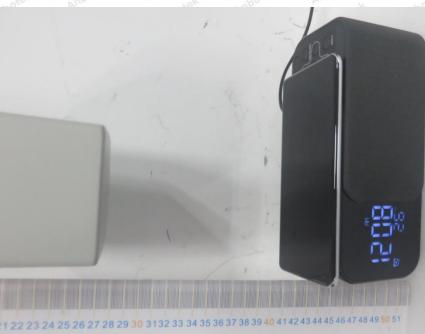
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End of Report

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