TCT 通测检测 TESTING CENTRE TECHNOLOGY

RF Exposure REPORT

FCC ID: 2AIOC-BWD19AAA08

Product: WIRELESS CHARGING CLOCK RADIO WITH BLUETOOTH SPEAKER

Model No.: BWD19AAA08

Additional Model No.: HKWP913

Trade Mark: blackweb

Report No.: TCT190121E022

Issued Date: Jan. 29, 2019

Issued for:

HANK ELECTRONICS CO., LTD.

Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China

Issued By:

Shenzhen Tongce Testing Lab.

1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

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1. Test Certification

Product:	WIRELESS CHARGING CLOCK RADIO WITH BLUETOOTH SPEAKER
Model No.:	BWD19AAA08
Additional Model No.:	HKWP913
Trade Mark:	**blackweb**
Applicant:	HANK ELECTRONICS CO., LTD.
Address:	Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China
Manufacturer:	HANK ELECTRONICS CO., LTD.
Address:	Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China
Date of Test:	Jan. 22, 2019 – Jan. 28, 2019
Applicable Standards:	47 CFR Part 1.1307

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:	Brews Xu	***Date:***	***Jan. 28, 2019***
	Brews Xu		
Reviewed By:	Beryl Zhao	***Date:***	***Jan. 29, 2019***
	Beryl Zhao		
Approved By:	Tomsin	***Date:***	***Jan. 29, 2019***
	Tomsin		

2. EUT Description

Product:	WIRELESS CHARGING CLOCK RADIO WITH BLUETOOTH SPEAKER
Model No.:	BWD19AAA08
Additional Model No.:	HKWP913
Trade Mark:	**blackweb**
Hardware Version:	A5
Software Version:	V1
Bluetooth version:	V5.0
Operation Frequency:	2402MHz~2480MHz
Transfer Rate:	1/2 Mbits/s
Number of Channel:	79
Modulation Type:	GFSK, π/4-DQPSK
Modulation Technology:	FHSS
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Power Supply:	AC 120V/60Hz
AC adapter:	Adapter Information: MODEL: A241-0503200U INPUT: AC 100-240V, 50/60Hz, 0.8A OUTPUT: DC 5V, 3200mA
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

3. Facilities and Accreditations

3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

  Shenzhen Tongce Testing Lab

  The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

  The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

3.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

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4. Technical Requirements Specification

Applicable Standard
According to §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Remark: 1) The maximum output power for antenna is 6.46dBm (4.43mW) at 2480MHz, 0dBi antenna gain(with 1.00 numeric antenna gain.)
2) For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation
generally be used is at least 20cm, even if the calculation indicate that the MPE distance would be
lesser.

Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

Where E = *Field Strength in Volts / meter*
P = *Power in Watts*
G=*Numeric antenna gain*
d=*Distance in meters*
S=*Power Density in milliwatts / square centimeter*

Maximum Permissible Exposure
output power= 4.43mW
Numeric Antenna gain= 1.00
Substituting the MPE safe distance using d=20cm into above equation.
Yields:
*S=0.000199*P*G*
Where P=Power in mW
G=Numeric antenna gain
S=Power density in mW/cm^2
Power density= 0.000882mW/cm^2

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm^2 even if the calculation
indicates that the power density would be larger.)

********END OF REPORT********

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