Report No.: DDT-R20031220-1E3

Issued Date: Mar. 30, 2020

RF EXPOSURE REPORT

FOR

Applicant	:	PRAISE PERFECTION LIMITED
Address	:	FLAT/RM 4, 7F SHING YIP INDUSTRIAL BUILDING, 19-21 SHING YIP STREET, KWUN TONG, KL., HONG KONG.
Equipment under Test	:	WIRELESS BOOMBOX
Model No.	:	BCB119B, BCB119X, MET119, PL-119
Trade Mark	:	GPX, MET, PPL
FCC ID	:	2ASQA696119
Manufacturer	:	PRAISE PERFECTION LIMITED
Address	:	FLAT/RM 4, 7F SHING YIP INDUSTRIAL BUILDING, 19-21 SHING YIP STREET, KWUN TONG, KL., HONG KONG.

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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REPORT

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TEST REPORT DECLARE

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Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No:	DDT-R20031220-1E3		
Date of Receipt:	Mar. 13, 2020	**Date of Test:**	Mar. 13, 2020 ~ Mar. 30, 2020

Prepared By: ***Approved By:***

Sam Li Damon Hu

Sam Li/Engineer ***Damon Hu/EMC Manager***

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision history

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Mar. 30, 2020	

1. General information

1.1. Description of Equipment

EUT* Name	:	WIRELESS BOOMBOX
Model Number	:	BCB119B, BCB119X, MET119, PL-119
Difference of model number	:	All models are identical except the color and brand, therefore the test performed on the model BCB119B.
EUT function description	:	Please reference user manual of this device
Power supply	:	DC 5.0V/0.8A from external AD/DC adapter
Adapter	:	INPUT: 100-240V~50/60Hz 0.8A OUTPUT: 5.0V/0.8A
Radio Specification	:	Bluetooth V5.0
Operation frequency	:	2402MHz-2480MHz
Modulation	:	GFSK, π/4-DQPSK
Data rate	:	1Mbps, 2Mbps
Antenna Type	:	Integral PCB antenna, maximum PK gain: -0.68 dBi
Sample Type	:	Series production

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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2. RF Exposure evaluation

2.1. Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm^2)	Averaging Time $\|E\|^2$,$\|H\|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

2.2. Calculation Method

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power Density: } S(mW/cm^2) = \frac{E^2}{377}$$

E = Electric field (V/m)
P = Peak RF output power (mW)
G = EUT Antenna numeric gain (numeric)=
d = Separation distance between radiator and human body (m)
The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \quad \text{or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

2.3. Estimation Result

Mode	PK Output power (dBm)	Output power (mW)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm^2)	MPE Limit (mW/cm^2)
Bluetooth Max power	4.54	2.84	-0.68	0.86	0.000486	1

Note: The estimation distance is 20cm

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold

END OF REPORT