Report No.: DDT-RE23071111-19E12

Issued Date: Sep. 25, 2023

RF EXPOSURE REPORT

FOR

Applicant	**:**	KREAFUNK APS
Address	**:**	Klamsagervej 35 A, st.8230 Abyhoj, Denmark
Equipment under Test	**:**	Lamp with wireless charger and Bluetooth speaker
Model No.	**:**	Ellie
Trade Mark	**:**	N/A
FCC ID	**:**	2ACVC-ELLIE
Manufacturer	**:**	ShenZhen E-Wonderland Electronic Co.,Ltd
Address	**:**	Floor 3, ,XinLong Hi-Tech Industry Park, XiaWeiShui Zone,Songgang Town, Baoan District, ShenZhen,China

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

Add.: Unit 2,Building 1,No.17,Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

Tel.: +86-0769-38826678, **E-mail:** ddt@dgddt.com, http://www.dgddt.com

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 Guangdong 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 Guangdong 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-RE23071111-19E12		
Date of Receipt:	Sep. 12, 2023	**Date of Test:**	Sep. 12, 2023 ~ Sep. 25, 2023

Prepared By:

Tiger Mo

Tiger Mo/Engineer

Approved By:

Damon Hu

Certificate and Report Seal
检验检测专用章

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 Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Sep. 25, 2023	

1. General Information

1.1. Description of equipment

EUT Name	:	Lamp with wireless charger and Bluetooth speaker
Model Number	:	Ellie
EUT function description	:	Please reference user manual of this device
Power Supply	:	Input: DC 9V/2A From external adapter Wireless output: 10W Max
Radio Technology	:	Bluetooth V5.0
Operation frequency	:	2402 MHz - 2480 MHz
Modulation	:	GFSK, π/4-DQPSK
Transmitter rate	:	1 Mbps, 2 Mbps
Antenna Type	:	PCB antenna, maximum PK gain: -0.58 dBi
Sample Number	:	S23071111-02 for conductive S23071111-01 for radiation

1.2. Assess laboratory

Guangdong Dongdian Testing Service Co., Ltd.

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Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

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 0.2 m 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=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

2.3. Estimation result

Mode	Output power (dBm)	Output power (mW)	tune up power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm^2)	MPE Limit (mW/cm^2)
BT	4.33	2.71	5	-0.58	0.87	0.0005	1

Note: The estimation distance is 20 cm

Conclusion: MPE evaluation required since transmitter power is below FCC threshold

END OF REPORT