RF EXPOSURE REPORT

Applicant	**:**	GP Electronics (HK) Limited
Address of Applicant	**:**	9/F, Building 12W, 12 Science Park West Avenue, Hong Kong Science Park, Pak Shek Kok, New Territories, Hong Kong
Manufacturer	**:**	GP Electronics (HK) Limited
Address of Manufacturer	**:**	9/F, Building 12W, 12 Science Park West Avenue, Hong Kong Science Park, Pak Shek Kok, New Territories, Hong Kong
Equipment under Test	**:**	Wireless Speaker
Model No.	**:**	XIO
FCC ID	**:**	UXD25001
Test Standard(s)	**:**	KDB447498 D01 General RF Exposure Guidance v06
Report No.	**:**	DDT-RE24101720-1E11
Issue Date	**:**	2025/03/20
Issue By	**:**	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

Table of Contents

Test Report Declare

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Test Standard Used:

KDB447498 D01 General RF Exposure Guidance v06

We Declare:

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

Report No.:	DDT-RE24101720-1E11		
Date of Receipt:	2025/01/08	**Date of Test:**	2025/01/08 - 2025/03/20

Created: Jacky Huang	Reviewed: Ella Gong	Approved: Damon Hu
Jacky Huang	Ella Gong	GUANGDONG DONGDIAN TESTING SERVICE CO.,LTD. 广东东电检测技术有限公司 Damon Hu Certificate and Report Seal 检验检测专用章
2025/03/20	2025/03/20	2025/03/20

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	2025/03/20	

1. General Test Information

1.1. Description of EUT

EUT Name	:	Wireless Speaker
Model Number	:	XIO
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	AC 100-240V, 50/60Hz

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual.

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
HDMI cable	/	/	/
Remote control	/	/	/

1.3. Test laboratory

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, 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-20240, G-20118

2. RF Exposure evaluation for FCC

2.1. Assessment procedure

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

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
1500-100000			1.0	30
Note: f= frequency in MHz; *Plane-wave equivalent power density				

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.

2.2. Assess result

Mode	Output power (dBm)	Output power (mW)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm^2)	MPE Limit (mW/cm^2)
BR/EDR	9.1	8.1283	3	1.9953	0.00323	1
BLE	8.3	6.7608	3	1.9953	0.00269	1
2.4GHz SRD	3.25	2.113	1.07	1.2794	0.00054	1
WiFi 2.4G	23.19	208.4491	3	1.9953	0.08278	1
WiFi 5G	19.01	79.6159	4	2.5119	0.03981	1
WiFi 6E	13.78	23.8781	5.5	3.5481	0.01686	1

Simultaneous transmit evaluation result: 0.00323/1+0.00054/1+0.08278/1=0.08655<1.

Note 1: The estimation distance is 20 cm

Note 2: The product does not support any two assembly of 2.4G WIFI, 5GWIFI and WIFI 6E simultaneous transmit, or three simultaneous transmit.

Note 3: The product does not support BR/EDR and BLE simultaneous transmit

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

----------End Report----------