

RF Exposure Evaluation Report

Product : portable wireless speaker
Trade mark : N/A
Model/Type reference : H-100, H-200, H-300, H-400,
H-500, H-600, H-700, H-800,
H-1000
Serial Number : N/A
Report Number : EED32R82000302
FCC ID : 2BNFO-H100
Date of Issue : Dec. 04, 2025
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

Shenzhen Xutao Electronics Co., Ltd
Unit 301, Dawangshan Rainbow Residence, No. 1007 Xihuan Road,
Dawangshan Community, Shajing District, Bao'an District, Shenzhen

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Dec. 04, 2025

Check No.: 8421291025

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2 General Information

2.1 Client Information

Applicant:	Shenzhen Xutao Electronics Co., Ltd
Address of Applicant:	Unit 301, Dawangshan Rainbow Residence, No. 1007 Xihuan Road, Dawangshan Community, Shajing District, Bao'an District, Shenzhen
Manufacturer:	Shenzhen DuoLeSheng Electronics Co., Ltd.
Address of Manufacturer:	Room 101A, Building A, Tianxin Industrial Zone, Gushu 2nd Road, Guxing Community, Xixiang Sub-district, Bao 'an District, Shenzhen City
Factory:	Shenzhen DuoLeSheng Electronics Co., Ltd.
Address of Factory:	Room 101A, Building A, Tianxin Industrial Zone, Gushu 2nd Road, Guxing Community, Xixiang Sub-district, Bao 'an District, Shenzhen City

2.2 General Description of EUT

Product Name:	portable wireless speaker
Model No.(EUT):	H-100, H-200,H-300,H-400,H-500,H-600,H-700,H-800,H-1000
Trade Mark:	N/A

2.3 Product Specification subjective to this standard

Frequency Range:	BT: 2402MHz~2480MHz	
Modulation Type:	BT: GFSK, $\pi/4$ DQPSK, 8DPSK	
Test Power Grade:	Default	
Test Software of EUT:	FrequencyTool_v0.3.2.exe	
Antenna Type:	PCB Antenna	
Antenna Gain:	3.38 dBi	
Power Supply:	USB port:	DC 5V
Sample Received Date:	Oct. 31, 2025	
Sample tested Date:	Oct. 31, 2025 to Nov. 25, 2025	
Remark:	Model No.: H-100, H-200,H-300,H-400,H-500,H-600,H-700,H-800,H-1000 Only the model H-10 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with only the color difference in appearance	

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164, Test Firm Registration No.: 260439

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation**For Stand alone:**

Band	Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
BT	2402	0.5	-0.09	3.38	1.14	1.30	2.788	0.4664	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② $ERP=EIRP-2.15$;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 0.5cm;
- ⑥ The test data please refer to the report of EED32R82000301 and only the worst case data was recorded in the report.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***