

RF Exposure Evaluation Report

Product : karaoke machine with screen
Trade mark : N/A
Model/Type reference : V-01
Serial Number : N/A
Report Number : EED32S810024
FCC ID : 2BNFO-V01
Date of Issue : Jul. 01, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
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,
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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:	DongGuan JinWenHua Digital Technology Co., Ltd.
Address of Manufacturer:	Building 1, No. 1 Huada Road, Tangxia Town, Dongguan City, Guangdong Province
Factory:	DongGuan JinWenHua Digital Technology Co., Ltd.
Address of Factory:	Building 1, No. 1 Huada Road, Tangxia Town, Dongguan City, Guangdong Province

2.2 General Description of EUT

Product Name:	karaoke machine with screen
Model No.:	V-01
Test Model No.:	V-01
Trade Mark:	N/A

2.3 Product Specification subjective to this standard

Frequency Range:	BT: 2402MHz~2480MHz 2.4G Wi-Fi: IEEE 802.11b/g/n(HT20)/ax(HE20): 2412MHz to 2462MHz IEEE 802.11n(HT40)/ax(HE40): 2422MHz to 2452MHz 5G Wi-Fi: U-NII-1 & U-NII-2A: 5150-5350MHz U-NII-3:5745-5825MHz	
Modulation Type:	BT: $\pi/4$ DQPSK, 8DPSK 2.4G Wi-Fi: IEEE for 802.11b:DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g:OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40): OFDM (64QAM, 16QAM,QPSK,BPSK) IEEE for 802.11ax(HE20 and HE40): OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) 5G Wi-Fi: IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11ac(VHT20/VHT40): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) IEEE 802.11ax(HE20/HE40): OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM,1024QAM)	
Test Power Grade:	Default	
Test Software of EUT:	BT: FrequencyTool_v0.3.1 2.4G Wi-Fi/ 5G Wi-Fi: adb	
Antenna Type:	BT: PCB Antenna 2.4G Wi-Fi/ 5G Wi-Fi: PIFA Antenna	
Antenna Gain:	BT: -0.58dBi 2.4G Wi-Fi/ 5G Wi-Fi: -3dBi	
Power Supply:	USB Port:	DC 5V 2A
	Battery:	DC 8.4V
Sample Received Date:	May 28, 2026	
Sample tested Date:	May 28, 2026 to Jun. 13, 2026	

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, 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:

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@BT	20	7.09	-0.58	4.36	2.73	3060.00	0.0009	Pass
@2.4G Wi-Fi	20	14.01	3	14.86	30.62	3060.00	0.0100	Pass
@5G Wi-Fi	20	13.72	3	14.57	28.64	3060.00	0.0094	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 20cm;
- ⑥ The test data please refer to the report of EED32S810025, EED32S810026, EED32S810027 and only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (BLE+2.4G Wi-Fi)=0.0009+0.0100+0.0094=0.0203 < 1, it's deemed to fulfil the RF exposure requirement.

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 ***