

# RF Exposure Evaluation Report

**Product** : Bluetooth® 5.3 Audio Transmitter  
**Trade mark** : nura  
**Model/Type reference** : U00B  
**Serial Number** : N/A  
**Report Number** : EED32O81684102  
**FCC ID** : 2ANIN-U00B  
**Date of Issue** : Nov. 09, 2022  
**Test Standards** : 47 CFR Part 1.1307  
47 CFR Part 1.1310  
47 CFR Part 2.1091  
47 CFR Part 2.1093  
447498 D04 Interim General RF  
Exposure Guidance v01  
**Test result** : PASS

Prepared for:

**NURA OPERATIONS PTY LTD**  
**PO BOX 95, BRUNSWICK, VIC 3056, AUSTRALIA**

Prepared by:

**Centre Testing International Group Co., Ltd.**  
**Hongwei Industrial Zone, Bao'an 70 District,**  
**Shenzhen, Guangdong, China**  
**TEL: +86-755-3368 3668**  
**FAX: +86-755-3368 3385**

Compiled by:

*Frazer Li*

Frazer Li

Reviewed by:

*Tom Chen*

Tom Chen

Approved by:

*Aaron Ma*

Aaron Ma

Date:

Nov. 09, 2022

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## 2 Version

Version No.	Date	Description
00	Nov. 09, 2022	Original

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## 4 General Information

### 4.1 Client Information

Applicant:	NURA OPERATIONS PTY LTD
Address of Applicant:	PO BOX 95, BRUNSWICK,VIC 3056, AUSTRALIA
Manufacturer:	NURA OPERATIONS PTY LTD
Address of Manufacturer:	PO BOX 95, BRUNSWICK,VIC 3056, AUSTRALIA
Factory:	Shenzhen Grandsun Electronic Co., Ltd.
Address of Factory:	East Park,Gaoqiao Industry Zone,Pingdi Street,Longgang,Shenzhen City,Guangdong Province,P.R.China

### 4.2 General Description of EUT

Product Name:	Bluetooth® 5.3 Audio Transmitter
Model No.(EUT):	U00B
Trade Mark:	nura

### 4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK,8DPSK
Test Power Grade:	Default
Test Software of EUT:	BlueTest3.exe
Antenna Type:	Chip Antenna
Antenna Gain:	2.98dBi
Power Supply:	DC 5.0V
Sample Received Date:	Oct.26,2022
Sample tested Date:	Oct.26,2022 to Nov.03,2022
Remark:	Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

## 4.4 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

## 4.5 Deviation from Standards

None.

## 4.6 Abnormalities from Standard Conditions

None.

## 4.7 Other Information Requested by the Customer

None.

## 5 SAR Evaluation

### 5.1 RF Exposure Compliance Requirement

#### 5.1.1 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 Pth (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). Pth 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 ERP20cm 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.

#### 5.1.2 Test Procedure

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



## 5.1.3 EUT RF Exposure Evaluation

For Bluetooth classic:

Frequency (MHz)	Separation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2402	0.5	0.32	2.98	1.15	1.303	2.788	PASS

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15

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\*\*\* End of Report \*\*\*