

RF Exposure Evaluation Report

Product : Air Conduction Hearing Aid
Trade mark : Ultrotong
Model/Type reference : XTS-B06-L, XTS-B06-M
Serial Number : N/A
Report Number : EED32S80266303
FCC ID : 2BURDXTSB06
Date of Issue : May 13, 2026
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 Magnet Technology Co., Ltd
No.901, Building 9 of Zhongyuntai Industrial Park, Songbai Rd, Tangtou
community, Shiyan St, Bao'an Dist, Shenzhen, China

Prepared by:

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



Compiled by:

Win Wei

Win Wei

Approved by:

Aaron Ma

Aaron Ma

Reviewed by:

Keven Tan

Keven Tan

Date:

May 13, 2026

Check No.:5019290126

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2 General Information

2.1 Client Information

Applicant:	Shenzhen Magnet Technology Co., Ltd
Address of Applicant:	No.901, Building 9 of Zhongyuntai Industrial Park, Songbai Rd, Tangtou community, Shiyan St, Bao'an Dist, Shenzhen, China
Manufacturer:	Shenzhen Magnet Technology Co., Ltd
Address of Manufacturer:	No.901, Building 9 of Zhongyuntai Industrial Park, Songbai Rd, Tangtou community, Shiyan St, Bao'an Dist, Shenzhen, China
Factory:	Shenzhen Magnet Technology Co., Ltd
Address of Factory:	No.901, Building 9 of Zhongyuntai Industrial Park, Songbai Rd, Tangtou community, Shiyan St, Bao'an Dist, Shenzhen, China

2.2 General Description of EUT

Product Name:	Air Conduction Hearing Aid
Model No.(EUT):	XTS-B06-L, XTS-B06-M
Trade Mark:	Ultroting

2.3 Product Specification subjective to this standard

Frequency Range:	BLE/BT: 2402MHz~2480MHz	
Modulation Type:	BLE: GFSK BT: GFSK, $\pi/4$ DQPSK, 8DPSK	
Test Power Grade:	Default	
Test Software of EUT:	AWRDLABV2.exe	
Antenna Type:	Chip Antenna	
Antenna Gain:	3dBi	
Power Supply:	Battery:	DC3.7V
Sample Received Date:	Jan. 30,2026	
Sample tested Date:	Jan. 30, 2026 to Feb. 24, 2026	
Remark: Model No.: XTS-B06-L, XTS-B06-M Only the model XTS-B06-L was tested,all models have the same RF module and antenna, PCB layout, schematics and component. Only the software firmware (output acoustic performance parameters such as maximum OSPL90, HFA-FOG50) and models name are different.		
Production name	Trademark	Model no.
Air Conduction Hearing Aid	Ultroting	XTS-B06-L XTS-B06-M

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
BLE	2480	0.5	0.92	3	1.77	1.50	2.717	0.5521	Pass
BT	2480	0.5	0.74	3	1.59	1.44	2.717	0.5307	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 EED32S80266301, EED32S80266302 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 ***