

RF Exposure Evaluation Report

Product : Bicolor Wireless Headset
Trade mark : MINISO
Model/Type reference : 2310
Serial Number : N/A
Report Number : EED32P81988002
FCC ID : 2A2H6-2310
Date of Issue : Dec. 19, 2023
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:

Shenzhen Bao Tianhua Technology Co., Ltd
301, Building Plant No.5 Ailiang
Road, Xi Keng Community Yuanshan Sub-district. Longgang district,
Shenzhen, Guangdong, China

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2 Version

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4 General Information

4.1 Client Information

Applicant:	Shenzhen Bao Tianhua Technology Co., Ltd
Address of Applicant:	301,Building Plant No.5 Ailiang Road, Xi Keng Community Yuanshan Sub-district. Longgang district, Shenzhen, Guangdong,China
Manufacturer:	Shenzhen Bao Tianhua Technology Co., Ltd
Address of Manufacturer:	301,Building Plant No.5 Ailiang Road, Xi Keng Community Yuanshan Sub-district. Longgang district, Shenzhen, Guangdong,China
Factory:	Shenzhen Bao Tianhua Technology Co., Ltd
Address of Factory:	301,Building Plant No.5 Ailiang Road, Xi Keng Community Yuanshan Sub-district. Longgang district, Shenzhen, Guangdong,China

4.2 General Description of EUT

Product Name:	Bicolor Wireless Headset
Model No.(EUT):	2310
Trade Mark:	MINISO

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:	BT_Tool.exe
Antenna Type:	PCB Antenna
Antenna Gain:	1.9dBi
Power Supply:	Battery DC 3.7V
Sample Received Date:	Dec. 07, 2023
Sample tested Date:	Dec. 07, 2023 to Dec. 15, 2023
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 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.

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 Stand alone:

For Bluetooth Classic:

Frequency (MHz)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2402	-2.72	1.9	-0.82	-2.97	0.505	≤2.788	PASS

Note:

- ① EIRP=conducted power+antenna gain;
 - ② ERP=EIRP-2.15
 - ③ The separation distance is 0.5cm.
 - ④ The test data refer to the report of No. EED32P81988001.
- Only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***