

RF Exposure Evaluation Report

Product : Elegance Wireless Headset
Trade mark : MINISO
Model/Type reference : P6
Serial Number : N/A
Report Number : EED32Q80337602
FCC ID : 2A2H6-P6
Date of Issue : Apr. 02, 2024
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091(mobile devices)
47 CFR Part 2.1093(portable devices)
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

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301, Building Plant No.5 Anliang Road, xi keng Community, Longgang
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1 Version

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3 General Information

3.1 Client Information

Applicant:	Shenzhen Bao Tianhua Technology Co., Ltd
Address of Applicant:	301,Building Plant No.5 Anliang Road,xi keng Community,Longgang District,Shenzhen,Guangdong,China
Manufacturer:	Shenzhen Bao Tianhua Technology Co., Ltd
Address of Manufacturer:	301,Building Plant No.5 Anliang Road,xi keng Community,Longgang District,Shenzhen,Guangdong,China
Factory:	Shenzhen Bao Tianhua Technology Co., Ltd
Address of Factory:	301,Building Plant No.5 Anliang Road,xi keng Community,Longgang District,Shenzhen,Guangdong,China

3.2 General Description of EUT

Product Name:	Elegance Wireless Headset
Model No.(EUT):	P6
Trade Mark:	MINISO

3.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	
Modulation Type:	GFSK, π/4DQPSK, 8DPSK	
Software:	BT_Tool.exe (manufacturer declare)	
EUT Power Grade:	Default (Power level is built-in set parameters and cannot be changed and selected)	
Antenna Type:	<input type="checkbox"/> Internal Antenna <input checked="" type="checkbox"/> PCB Antenna <input type="checkbox"/> Ceramic Antenna <input type="checkbox"/> External Antenna <input type="checkbox"/> Loop Antenna <input type="checkbox"/> Other:	
Antenna Gain:	-0.58dBi	
Power Supply:	USB Port:	DC 5.0V
	Battery:	DC 3.7V,0.74Wh,200mAh
Test Voltage:	DC 3.7V	
Sample Received Date:	Mar. 19, 2024	
Sample tested Date:	Mar. 19, 2024 to Mar. 27, 2024	
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.	

3.4 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

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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_{20cm} 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.

4.1.2 Test Procedure

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

4.1.3 EUT RF Exposure Evaluation

For Stand alone:

For Bluetooth classic:

Frequency (MHz)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	Maximum time-averaged power (dBm)	Maximum time-averaged power (mW)	Limit (mW)	Result
2402	0.51	-0.58	0.51	1.1246	≤2.7877	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 EED32Q80337601 and only the worst case data was recorded in the report.

⑦ 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).

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*** End of Report ***