

RF Exposure Evaluation Report

Product : See section 4.2
Trade mark : MINISO
Model/Type reference : P10
Serial Number : N/A
Report Number : EED32Q80426703
FCC ID : 2A2H6-P10
Date of Issue : Apr. 30, 2024
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 Anliang Road, xi keng Community, Longgang
District, Shenzhen, Guangdong, China

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Apr. 30, 2024

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2 Version

Version No.	Date	Description
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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 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

4.2 General Description of EUT

Product Name:	Disney Lilo & Stitch Collection Wireless Headset, Disney Alien Collection Wireless Headset, Disney Lotso Collection Wireless Headset
Model No.(EUT):	P10
Trade Mark:	MINISO

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	BLE: GFSK BT: GFSK, $\pi/4$ DQPSK, 8DPSK
Test Power Grade:	Default
Test Software of EUT:	BT_Tool V1.0.9
Antenna Type:	PCB Antenna
Antenna Gain:	-0.58dBi
Power Supply:	Battery: DC 3.7V
Sample Received Date:	Apr. 03, 2024
Sample tested Date:	Apr. 03, 2024 to Apr. 15, 2024
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 BLE:**

Frequency (MHz)	Available maximum time- averaged power (dBm)	Antenna gain (dBi)	ERP (dBm)	Available maximum time- averaged power (mW)	Limit (mW)	Result
2480	3.26	-0.58	0.53	2.118	≤ 2.717	PASS

For BT:

Frequency (MHz)	Available maximum time- averaged power (dBm)	Antenna gain (dBi)	ERP (dBm)	Available maximum time- averaged power (mW)	Limit (mW)	Result
2480	3.38	-0.58	0.65	2.178	≤ 2.717	PASS

Note:

- ① EIRP=Available maximum time-averaged power+Antenna gain;
- ② ERP=EIRP-2.15;
- ③ According to § 1.1307(b)(3)(i)(B), 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).
- ④ The estimation distance is 0.5cm;
- ⑤ The test data please refer to the report of EED32Q80426701, EED32Q80426702, and 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 ***