

RF Exposure Report

Product name Bone Conduction Headphones

Trademark: N.A.

Model no.: Me-800

Series Model(s). N.A.

FCC ID...... 2BM46ME-800

Report No C241125088-RF08

Test Standards CFR47 FCC Part 2: Section 2.1093 CFR47 FCC Part 1: Section 1.1310

Applicant Shenzhen Wabony Electronic Co., Ltd.

Jing, Bao'an District, Shenzhen, Guangdong, China.

Manufacturer: Shenzhen Wabony Electronic Co., Ltd.

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Jing, Bao'an District, Shenzhen, Guangdong, China.

Date of Test Date...... n.a.

Date of issue. Mar 13, 2025

Test result Compliance

Prepared By

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Reviewed By

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Approved By

Tom Gan/Manager

The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of preparer, reviewer and approver. Any objections must be raised to CSIC within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.

Shenzhen Central Standard International Center Co., Ltd.
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1 TEST SUMMARY

1.1 Test Facility

Shenzhen Central Standard International Center Co., Ltd. (CSIC)

Room 201, Building 1, Mogen Fashion Industrial Park, No. 10, Shilongzai Road, Xinshi Community, Dalang Street, Longhua District, Shenzhen.

The test facility is recognized, certified or accredited by the following organizatios:

CNAS Registration No.: L11671

FCC Registration No.: 0031378433 Designation Number: CN1317

IC CAB identifier: CN0051 A2LA Lab Cert. No.: 6426.01



2 GENERAL INFORMATION

2.1 General Description of EUT

Product information			
Product Name:	Bone Conduction Headphones		
Trademark:	N.A.		
Model No:	Me-800		
Series Model:	N.A.		
Power supply:	Headphones: DC 3.87V 80mAh*2 Lithium battery Charging Case: Input: DC 5V 1000mA charging by USB Output: DC 5V 250mA*2 Lithium battery		
Hardware version:	V1.0		
Software version:	V1.0		
Technical Specification of	f Bluetooth LE		
Frequency Range:	2402 MHz to 2480 MHz		
Type of Modulation:	GFSK		
Channel Number:	40 channels		
Data Rate:	1 Mbps, 2 Mbps		
Channel Separation:	2 MHz		
Antenna type:	CHIP Antenna		
Antenna gain:	2.67dBi		
Technical Specification of	f Bluetooth		
Frequency Range:	2402 MHz to 2480 MHz		
Type of Modulation:	GFSK, π/4DQPSK, 8DPSK		
Channel Number:	79 channels		
Data Rate:	1 Mbps, 2 Mbps, 3 Mbps		
Channel Separation:	1 MHz		
Antenna type:	CHIP Antenna		
Antenna gain:	2.67dBi		
Pomark:	•		

Remark:

The left and right of the EUT are Me-800_LEFT and Me-800_RIGHT respectively (please refer to C241125088 Appendix C Internal Photos for details).

The different colours of the charging case and charging dock are only applicable to different sales strategies, and the electrical structure is the same, which does not affect the performance of the product, so it is not tested.

Note:

- 1. For a more detailed features description, please refer to the manufacture's specifications or the user's manual.
- 2. Full tests were applied to the sample C241125088-Y01/01 only in this document.



3 Maximum Permissible Exposure (MPE)

3.1 RF Exposure

3.1.1 Limit

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio frequency (RF) radiation as specified in 1.1307 (b).

For FCC:

Frequency Range	Electric Field Strength	Magnetic Field Strength	Power Density				
[MHz]	[V/m]	[A/m]	[mW/cm ²]				
Limits for Occupational / controlled Exposures							
300 - 1500			f/300				
1500 - 100000			5.0				
Limits for General population / Uncontrolled Exposure							
300 - 1500		f/1500					
1500 - 100000			1.0				

NOTE: f = Frequency in MHz



Friss Formula

According to KDB447498 D01 General RF Exposure Guidance V06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] *

 $[\sqrt{f(GHz)}] \le 3.0$ for 1-q SAR and ≤ 7.5 for 10-q extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz;

Power and distance are rounded to the nearest mW and mm before calculation;

The result is rounded to one decimal place for comparison;

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz.

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 5mm.

3.1.3 Classification

The antenna of this product, under normal use condition, is at least 5mm away from the body of the user. Warning statement to the user for keeping at least 5mm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.

3.1.4 **EUT Operating Conditions**

EUT was enabled to transmit and receive at lowest, middle and highest channels.

Evaluation Result 3.1.5

1) tand-alone transmission MPE

Mode	Frequency	*Measured RF Output	Distance	Result	Limit
Mode	(GHz)	Power (dBm)	(mm)	calculation	(1-g)
Me-800_LEFT Bluetooth	2.402	5.429	5	1.08	3.0
Me-800_RIGHT Bluetooth	2402	4.556	5	0.88	3.0

Note:

- 1. Me-800 LEFT Bluetooth Max. RF Output Power: Refer to test report C241125088-RF05.
- 2. Me-800 RIGHT Bluetooth Max. RF Output Power: Refer to test report C241125088-RF07.

3.1.6 Conclusion

Therefore, the maximum calculations result of above are meet the requirement of Radio Frequency Exposure (MPE) limit.

TRF_FCC Part 1.1310&2.1093 & RSS-102_Rev.01 Tel.: (86)0755-85283385 Email: csicsz@csicsz.com www.csicsz.com