

### **FCC RF Exposure Report**

Report Number	<b>68.950.22.1051.01</b> Date of Issue: October 25, 2022
Model / HVIN	MBMMSC
Product Type	MOTHER Bracelet
Applicant	MEDIROM Healthcare Technologies Inc,
Address	Daiba 2-3-1, Minato-ku , Tokyo , Japan
Manufacturer	MEDIROM Healthcare Technologies Inc,
Address	Daiba 2-3-1, Minato-ku , Tokyo , Japan
Test Result	■ Positive □ Negative
Total pages including Appendices	8

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### 2 Details about the Test Laboratory

#### **Details about the Test Laboratory**

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Building 12 & 13, Zhiheng Wisdomland Business Park, Nantou Checkpoint Road 2,

Nanshan District Shenzhen 518052

P.R. China

Telephone: 86 755 8828 6998

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**FCC** Registration

No.:

514049

FCC Designation

Number:

CA5009

IC Registration

No.:

10320A



### **Description of the Equipment Under Test**

Product: **MOTHER Bracelet** 

Model no.: **MBMMSC** 

Brand name: **MOTHER Bracelet** 

Hardware Version Identification

**MBMMSC** No. (HVIN)

FCC ID: 2A8ZF-MBMMSC

IC: 29535-MBMMSC

Options and accessories: Charger

Supplied by 3.85VDC 82mAh Li-ion Rechargeable Battery Rating:

RF Transmission Frequency: 2402MHz-2480MHz

No. of Operated Channel: 40

Modulation: **GFSK** 

Antenna Type: Ceramic chip antenna

Antenna Gain: -2.0dBi

Description of the EUT: The Equipment Under Test (EUT) is a health monitoring bracelet which support

Bluetooth function.

NOTE: The above EUT's information is declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



# 4 Test Specifications

Test Standards	
ANSI Std C95.1-1992	Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.(IEEE Std C95.1-1991)
KDB 447498 D01	General RF Exposure Guidance v06



#### 5 General Information

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Alem X700 Prepared By 2022-10-25 Alan Xiong **Project Engineer** Name Signature Date ausentrian Approved by Laurent Yuan 2022-10-25 Section Manager Date Name Signature



#### 6 RF Exposure Requirements

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance v06, no SAR required if power is lower than the flowing threshold:

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)] [ $\sqrt{f_{(GHz)}}$ ]  $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

- f<sub>(GHz)</sub> 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
- 3.0 and 7.5 are referred to as the numeric thresholds

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. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



# 7 RF Exposure Evaluation

[(max. power of` channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f_{(GHz)}}] \le 3.0$ 

Conducted Power + tune up tolerance =-0.64dBm= 0.86mWDistance = 5 mmf = 2.402 GHz

[0.86/5] \* SQRT(2.402) = 0.27 $0.27 \le 3.0$ 

Therefore, excluded from SAR testing.