

# RF Exposure Evaluation Report

<b>Product</b>	: Rhythm Master ECG Patch
<b>Trade mark</b>	: N/A
<b>Model/Type reference</b>	: HM-15BB-AX, HM-15BW-AX, HM15BW-DX
<b>Serial Number</b>	: N/A
<b>Report Number</b>	: EED32R80869102
<b>FCC ID</b>	: 2BQF2-SMW-ECG2025
<b>Date of Issue</b>	: Jul. 04, 2025
<b>Test Standards</b>	: 47 CFR Part 1.1307 47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093 KDB 447498 D04 Interim General RF Exposure Guidance v01
<b>Test result</b>	: PASS

Prepared for:  
**Smwmed Inc.**  
**11295 Manorgate Dr, San Diego, CA, US**

Prepared by:  
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Jul. 04, 2025

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## 2 General Information

### 2.1 Client Information

Applicant:	Smwmed Inc.
Address of Applicant:	11295 Manorgate Dr, San Diego, CA, US
Manufacturer:	Smwmed Inc.
Address of Manufacturer:	11295 Manorgate Dr, San Diego, CA, US
Factory:	Smwmed Inc.
Address of Factory:	11295 Manorgate Dr, San Diego, CA, US

### 2.2 General Description of EUT

Product Name:	Rhythm Master ECG Patch
Model No.(EUT):	HM-15BB-AX, HM-15BW-AX, HM15BW-DX
Test model:	HM-15BB-AX
Trade Mark:	N/A

### 2.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Test Power Grade:	Default
Test Software of EUT:	GRDirect Test Mode Tool
Antenna Type:	Ceramic Antenna
Antenna Gain:	0 dBi
Power Supply:	DC 5V
Sample Received Date:	Jun. 09, 2025
Sample tested Date:	Jun. 09, 2025 to Jun. 16, 2025

Model No.: HM-15BB-AX, HM-15BW-AX, HM15BW-DX

Only the model HM-15BB-AX was tested, production units bearing the following model numbers have same electrical, PCB and layout. Only the model name (HM-15BB-AX and HM-15BW-AX, HM-15BW-DX), communication protocol and viewing software platform are different for marketing requirements. See below for details.

(Optional):

Model	HM-15BB-AX	HM-15BW-AX, HM-15BW-DX
Communication Protocol	Bluetooth Low Energy (2402MHz – 2480 MHz)	USB2.0
Viewing Software Platform	Android APP	Windows APP

## 2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd  
Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China  
Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385  
No tests were sub-contracted.  
FCC Designation No.: CN1164

## 2.5 Deviation from Standards

None.

## 2.6 Abnormalities from Standard Conditions

None.

## 2.7 Other Information Requested by the Customer

None.

### 3 SAR Evaluation

#### 3.1 RF Exposure Compliance Requirement

##### 3.1.1 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.

##### 3.1.2 Test Procedure

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

**3.1.3 EUT RF Exposure Evaluation****For Stand alone:**

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
2480	0.5	1.62	0	-0.53	0.88511561	2.7877	0.28	Pass

**Note:**

- ①EIRP=conducted power+antenna gain;
- ②ERP=EIRP-2.15;
- ③EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;
- ④ERP(mW) =  $10^{(ERP\ (dBm)/10)}$ ;
- ⑤The estimation distance is 0.5cm;
- ⑥The test data please refer to the report of EED32R80351901 and only the worst case data was recorded in the report.

## Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, 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. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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\*\*\* End of Report \*\*\*