

# RF Exposure Evaluation Report

<b>Product</b>	: Arm-Type Fully Automatic Digital Blood Pressure Monitor
<b>Trade mark</b>	: N/A
<b>Model/Type reference</b>	: DBP-12E6b
<b>Serial Number</b>	: N/A
<b>Report Number</b>	: EED32R80031002
<b>FCC ID</b>	: 2AQVU0059
<b>Date of Issue</b>	: Mar. 11, 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:  
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**No.365, Wuzhou Road, 311100 Hangzhou, Zhejiang Province,**  
**PEOPLE'S REPUBLIC OF CHINA**

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Date:

Mar. 11, 2025

Check No.: 4357070125



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**1 Version**

Version No.	Date	Description
00	Mar. 11, 2025	Original

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### 3 General Information

#### 3.1 Client Information

Applicant:	JOYTECH Healthcare Co., Ltd.
Address of Applicant:	No.365, Wuzhou Road, 311100 Hangzhou, Zhejiang Province, PEOPLE'S REPUBLIC OF CHINA
Manufacturer:	JOYTECH Healthcare Co., Ltd.
Address of Manufacturer:	No.365, Wuzhou Road, 311100 Hangzhou, Zhejiang Province, PEOPLE'S REPUBLIC OF CHINA
Factory:	JOYTECH Healthcare Co., Ltd.
Address of Factory:	No.365, Wuzhou Road, 311100 Hangzhou, Zhejiang Province, PEOPLE'S REPUBLIC OF CHINA

#### 3.2 General Description of EUT

Product Name:	Arm-Type Fully Automatic Digital Blood Pressure Monitor
Model No.(EUT):	DBP-12E6b
Trade Mark:	N/A

#### 3.3 Product Specification subjective to this standard

Frequency Range:	2400MHz~2483.5MHz
Modulation Type:	GFSK
Test Power Grade:	Default
Test Software of EUT:	RFTest_0421_disableRTSDTR_boxed
Antenna Type:	PCB Antenna
Antenna Gain:	-1.37dBi
Power Supply:	Battery: DC 1.5*4
	Adapter: DC 5V/1A
Sample Received Date:	Mar. 05, 2025
Sample tested Date:	Mar. 05, 2025 to Mar. 07, 2025

### 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  $ERP_{20\text{cm}}$  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.

#### 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:**

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
2402	0.5	2.48	-1.37	0.33	1.0789	2.7877	0.3870	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 EED32R80031001 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;
5. Without written approval of CTI, this report can't be reproduced except in full.

\*\*\* End of Report \*\*\*