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# RF Exposure Evaluation Report

**Product**: Arm-type Fully Automatic Digital Blood

**Pressure Monitor** 

Trade mark : N/A

Model/Type reference : DBP-62D0L, DBP-62D0B

Serial Number : N/A

Report Number : EED32P82069602

FCC ID : 2AQVU0046

Date of Issue : Jan. 11, 2024

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1093

KDB 447498 D04 Interim General RF

Exposure Guidance v01

Test result : PASS

Prepared for:

JOYTECH HEALTHCARE CO., LTD.
No.365, Wuzhou Road, Hangzhou City, 311100 Zhejiang, China

Prepared by:

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Jan. 11, 2024

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### 4.1 Client Information

Applicant:	JOYTECH HEALTHCARE CO., LTD.		
Address of Applicant:	No.365, Wuzhou Road, Hangzhou City, 311100 Zhejiang, China		
Manufacturer:	JOYTECH HEALTHCARE CO., LTD.		
Address of Manufacturer:	No.365, Wuzhou Road, Hangzhou City, 311100 Zhejiang, China		
Factory:	JOYTECH HEALTHCARE CO., LTD.		
Address of Factory:	No.365, Wuzhou Road, 311100 Hangzhou City, Zhejiang, China. NO.502, Shunda Road, 311100 Hangzhou, Zhejiang Province, PEOPLE's REPUBLIC OF CHINA		

# 4.2 General Description of EUT

Product Name:	Arm-type Fully Automatic Digital Blood Pressure Monitor
Model No.(EUT):	DBP-62D0L, DBP-62D0B
Test Model No.:	DBP-62D0L
Trade Mark:	N/A
Device type:	Portable

## 4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~24	480MHz					
Modulation Type:	GFSK	/05	-0-		_°		
Test Power Grade:	Default						
Test Software of EUT:	PhyPlusKit						
Antenna Type:	PCB Antenna	a					
Antenna Gain:	-1.37612dBi	-1.37612dBi					
Power Supply:	Adapter	Model:UE05LU4-050100SP Input:AC100-240V, 50/60Hz Output:5.0V1.0A 5.0W		(ci)			
	Battery DC 3	3.7V					
Sample Received Date:	Dec. 20, 202	23	-0-		-0-		
Sample tested Date:	Dec. 20, 202	23 to Dec. 26, 2023	(41)		(41)		
_/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		16.7.	15.4.				

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.

Model No.: DBP-62D0L, DBP-62D0B

Only the model DBP-62D0L was tested. Their electrical circuit design, layout, components used and internal wiring are identical, Only the battery is different. The DBP-62D0L is powered by lithium batteries, and the DBP-62D0B is powered by Alkaline dry batteries.















#### 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





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## 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 Pth (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). Pth is given by Formula

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{\text{th}} (\text{mW}) = ERP_{20 \text{ cm}} (\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(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.





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#### 5.1.3 EUT RF Exposure Evaluation

#### For Stand alone:

#### For BLE

j	Frequency	Available maximum time-	Antenna	ERP	Available maximum	Limit	Result
	(MHz)	averaged power	gain	(dBm)	time-averaged power	(mW)	
		(dBm)	(dBi)		(mW)		
	2402	-3.08	-1.37612	-6.60612	0.492	≤2.7880	PASS

#### Note:

- ①EIRP=Available maximum time-averaged power+Antenna gain;
- ②ERP=EIRP-2.15
- ③According 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 test data refer to the report No. EED32P82069601. Only the worst case data was recorded in the report.
- ⑤The separate distance is 0.5cm.

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 \*\*\*