

RF Exposure Evaluation Report

Product : Arm-type Fully Automatic Digital Blood Pressure Monitor
Trade mark : N/A
Model/Type reference : DBP-62A2B
Serial Number : N/A
Report Number : EED32O81897502
FCC ID : 2AQVU0035
Date of Issue : Dec. 20, 2022
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1093
447498 D04 Interim General RF Exposure Guidance v01

Test result : PASS

Prepared for:

JOYTECH Healthcare Co.,Ltd
No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, Zhejiang, 311100, China

Prepared by:

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Dec. 20, 2022

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2 Version

Version No.	Date	Description
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4 General Information

4.1 Client Information

Applicant:	JOYTECH Healthcare Co.,Ltd
Address of Applicant:	No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, Zhejiang, 311100, China
Manufacturer:	JOYTECH Healthcare Co.,Ltd
Address of Manufacturer:	No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, Zhejiang, 311100, China
Factory:	JOYTECH Healthcare Co.,Ltd
Address of Factory:	No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, Zhejiang, 311100, China

4.2 General Description of EUT

Product Name:	Arm-type Fully Automatic Digital Blood Pressure Monitor
Model No.(EUT):	DBP-62A2B
Trade Mark:	N/A
Device type:	Portable

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	
Modulation Type:	GFSK	
Test Power Grade:	Default	
Test Software of EUT:	PhyPluskit	
Antenna Type:	PCB antenna	
Antenna Gain:	0dBi	
Power Supply:	Adapter	Model:UE05LU4-050100SPA Input:100-240VAC,50/60Hz,0.2A Output:5.0V --- 1.0A,5.0W
	Battery 6V	
Sample Received Date:	Nov. 29, 2022	
Sample tested Date:	Nov. 29, 2022 to Dec. 09, 2022	
Remark:	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.	

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

None.

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 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.

5.1.2 Test Procedure

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

5.1.3 EUT RF Exposure Evaluation

For Stand alone:

For BLE

Frequency (MHz)	Separation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2402	0.50	0.49	0	0.49	-1.66	0.682	2.788	PASS

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15
- ③ Only the worst case data was recorded in the report.

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 ***