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RF Exposure Evaluation Report

Product : ECG Blood Pressure Monitor

Trade mark : N/A

Model/Type reference : DBP-6679B, DBP-6673B

Serial Number : N/A

Report Number : EED32Q81374702

FCC ID : 2AQVU0015

Date of Issue : Dec. 12, 2024

Test Standards : 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

Test result : PASS

Prepared for:

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

Prepared by:

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3 General Information

3.1 Client Information

Applicant:	JOYTECH HEALTHCARE CO., LTD.	
Address of Applicant:	No.365, Wuzhou Road, Hangzhou City, 311100 Zhejiang, China	/°N
Manufacturer:	JOYTECH HEALTHCARE CO., LTD.	(27)
Address of Manufacturer:	No.365, Wuzhou Road, Hangzhou City, 311100 Zhejiang, China	

3.2 General Description of EUT

Product Name:	ECG Blood Pressure Monitor	Cin .
Model No.:	DBP-6679B, DBP-6673B	(6,4)
Test Model No.:	DBP-6679B	
Trade mark:	N/A	

3.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~24	180MHz			
Modulation Type:	GFSK				
Test Power Grade:	Default				
Test Software of EUT:	PhyPlusKit.e	xe			
Antenna Type:	PCB antenna			(0,)	
Antenna Gain:	-1.376dBi				
Power Supply:	Battery:	4.5V(3 * AAA batteries)	~		32.4
Sample Received Date:	Sep. 11, 202	4			
Sample tested Date:	Sep. 11, 202	4 to Sep. 20, 2024	(0,)		(0,)

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.

Model No.: DBP-6679B, DBP-6673B

Only the model DBP-6679B was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being screen size, pack and model name.







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

3.7 Other Information Requested by the Customer







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 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.

4.1.2 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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4.1.3 EUT RF Exposure Evaluation

For Stand alone:

100	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	0.43	-1.376	-1.72	0.6730	2.7877	0.2414	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;
- ©The test data please refer to the report of EED32Q81374701 and only the worst case data was recorded in the report.

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*** End of Report ***

