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# RF Exposure Evaluation Report

**Product Digital Blood Pressure Monitor** 

Trade mark Mircrolife **BPHJN3-D** Model/Type reference

**Serial Number** : N/A

**Report Number** : EED32Q80356702

**FCC ID** U7I-BPHJN3-D Date of Issue : Apr. 24, 2024

47 CFR Part 1.1307 **Test Standards** 

47 CFR Part 1.1310

47 CFR Part 2.1091(mobile devices) 47 CFR Part 2.1093(portable devices) KDB 447498 D04 Interim General RF

Exposure Guidance v01

Test result **PASS** 

Prepared for:

**Microlife Corporation** 9F, 431, RuiGuang Road, NeiHu Taipei 11492, Taiwan, China

Prepared by:

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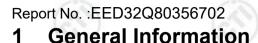


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### 1.1 Client Information

Applicant:	Microlife Corporation		
Address of Applicant:	9F, 431, RuiGuang Road, NeiHu Taipei 11492, Taiwan, China		
Manufacturer:	ONBO Electronic (Shenzhen) Co., Ltd.		
Address of Manufacturer:	No.138, Huasheng Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China		
Factory:	ONBO Electronic (Shenzhen) Co., Ltd.		
Address of Factory:	No.138, Huasheng Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China		

## 1.2 General Description of EUT

Product Name:	Digital Blood Pressure Monitor					
Model No.(EUT):	BPHJN3-D					
Trade Mark:	Mircrolife					
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location					
Frequency Range:	2402MHz~2480MHz					
Modulation Type:	GFSK					
Test Software:	SmartSnippets_Toolbox (manufacturer declare )					
EUT Power Grade:	Default (Power level is built-in set parameters and cannot be changed and selected)					
Antenna Type:	PIFA antenna					
Antenna Gain:	-0.5dBi					
Power Supply:	Model:UES05LU6-060060SPA Adapter: Input:100-240V~50/60Hz,0.3A Output:6.0V,0.6A,3.6W					
	D. H					
	Battery: DC 6.0V(4*1.5*AAA Battery)					
Sample Received Date:	Apr. 18, 2024					

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.



















#### 1.3 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

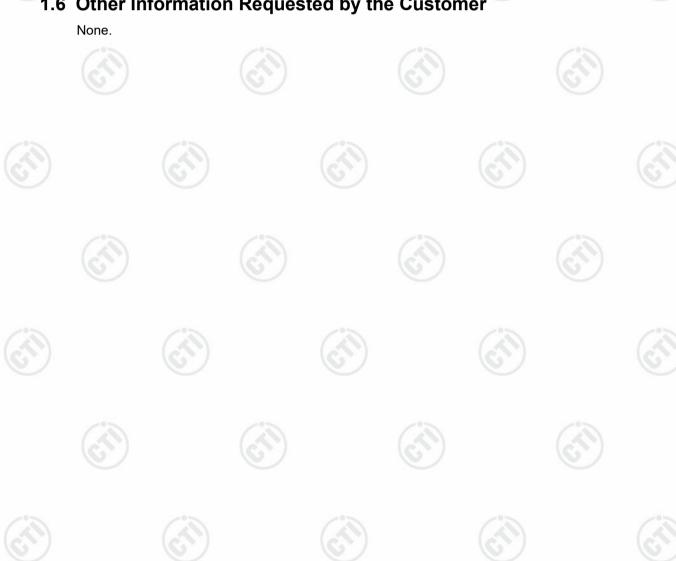
#### 1.4 Deviation from Standards

None.

#### 1.5 Abnormalities from Standard Conditions

None.

## 1.6 Other Information Requested by the Customer





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#### SAR Evaluation

### 2.1 RF Exposure Compliance Requirement

#### **2.1.1 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

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

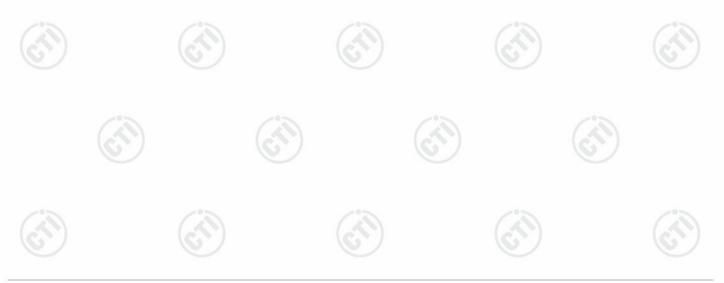
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

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

#### 2.1.2 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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#### 2.1.3 EUT RF Exposure Evaluation

#### For Stand alone:

#### For Bluetooth LE:

9	Frequency	Max. Conducted	Antenna Gain	Maximum time-	Maximum time-	Limit	Result
	(MHz)	Output power	(dBi)	averaged power	averaged power	(mW)	
		(dBm)		(dBm)	(mW)		
	2440	-10.86	-0.5	-10.86	0.0820	2.7528	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 EED32Q80356701 and 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 \*\*

