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RF Exposure Evaluation Report

Product : Digital Blood Pressure Monitor

Trade mark : microlife

Model/Type reference: WatchBP Home T(BP3MX1-3T)

Serial Number : N/A

Report Number : EED32M00333302 FCC ID : U7I-BP3MX1-3T

Date of Issue : Dec. 01, 2020

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310

KDB447498D01 General RF Exposure Guidance v06

Test result : PASS

Prepared for:

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

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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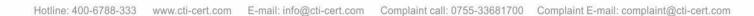
Date:

Bill Lu Dec. 01, 2020

Aaron Ma

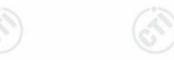
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2 Version

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4 General Information

4.1 Client Information

Applicant:	Microlife Corporation
Address of Applicant:	9F, 431, RuiGuang Road, NeiHu Taipei 11492, Taiwan
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

4.2 General Description of EUT

Product Name:	Digital Blood Pressure Monitor
Model No.(EUT):	WatchBP Home T(BP3MX1-3T)
Trade Mark:	microlife
EUT Supports Radios application:	4.2(BLE)

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz		
Modulation Type:	GFSK		
Test Power Grade:	Default		
Test Software of EUT:	Default		
Antenna Type:	Ceramic Antenna		
Antenna Gain:	3dBi		
Power Supply:	DC 6.0V		
May Canduated Deals	BT4.2: -4.132dBm		
Max Conducted Peak Output Power:	The Max Conducted Peak Output Power data refer to the report EED32M00333301		
Sample Received Date:	Nov. 16, 2020		
Sample tested Date:	Nov. 16, 2020 to Nov. 20, 2020		

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.: WatchBP Home T(BP3MX1-3T)

Only the model WatchBP Home T(BP3MX1-3T) was tested. Their electrical circuit design, layout, components used, internal wiring, software and outer decoration are identical, only the model name are different, the tested product has two model names, WatchBP Home T is the market model name; BP3MX1-3T is the factory internal model name.











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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















































































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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

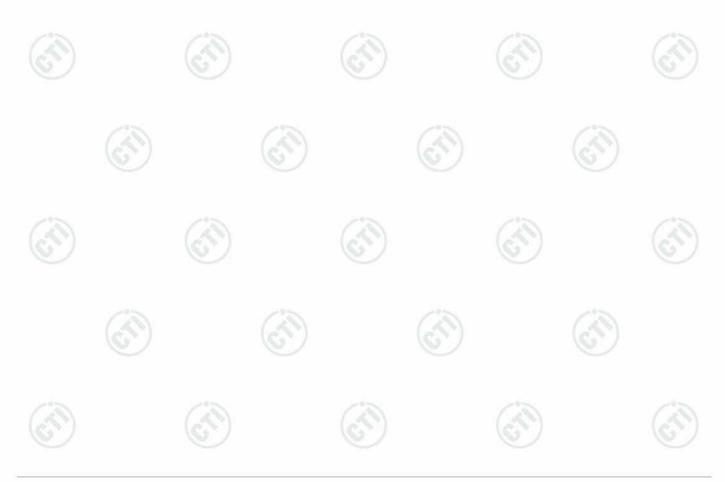
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\sqrt[4]{f(GHz)} \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion



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5.1.2 EUT RF Exposure

So,

The tune-up power is -5.0 dBm +/- 1.0dB, therefore the highest tune-up power is

-4.0dBm (0.40mW) @2440 MHz

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

(0.40mW / 5mm) * (2.440GHz^0.5)=0.12

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [$\sqrt{f(GHz)}$] = 0.12 < 3.0

Therefore, standalone SAR measurements are not required for both head and body



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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32M00333301 for EUT external and internal photos.

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