

RF Exposure Evaluation Report

Product : Digital Blood Pressure Monitor

Trade mark : microlife

Model/Type reference : BP3SZ1-1,WatchBP O3

Serial Number : N/A

Report Number : EED32L00270402

FCC ID : U7I-BP3SZ1-1

Date of Issue : Nov. 04, 2019

Test Standards : 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

Test result : PASS

Prepared for:

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

Prepared by:

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2 Version

Version No.	Date	Description		
00	Nov. 04, 2019	Original		
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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):	BP3SZ1-1,WatchBP O3	C	\cdot\(\frac{1}{2}\)
Test Model No.:	BP3SZ1-1	(8.73)	(6,57)
Trade mark:	microlife		
EUT Supports Radios application:	4.2 BT Single mode		

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480	MHz		
Modulation Type:	GFSK			
Test Power Grade:	Default	-0-	215	100
Test Software of EUT:	Default			(41)
Antenna Type:	Chip antenna			
Antenna Gain:	0dBi			
Power Supply:	Battery	DC 1.5V*4 SIZE AAA		
Max Conducted Peak	-1.271dBm			
Output Power:	The Max Conducted Peak Output Power data refer to the report EED32L00270401			
Sample Received Date:	Sep. 23, 2019			
Sample tested Date:	Sep. 23, 2019 to	Sep. 30, 2019		
4				

The tested sample(s) and the sample information are provided by the client.

Model No.: BP3SZ1-1,WatchBP O3

Only the model BP3SZ1-1 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference 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.

5.1.2 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)] $\sqrt{f(GHz)} \le 3.0$ 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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5.1.3 EUT RF Exposure

The tune-up power is 6 dBm +/- 2dB, therefore the highest tune-up power is -1.3 dBm (0.75 mW) @ 2402 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.

So,

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [$\sqrt{f(GHz)}$] = 0.2 < 3.0

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































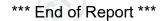




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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00270401 for EUT external and internal photos.



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