RF Exposure Evaluation Report

Product	:	Digital Blood Pressure Monitor
Trade mark	:	microlife
Model/Type reference	:	BP3MW1-4Y
Serial Number	:	N/A
Report Number	:	EED32N81381102
FCC ID	:	U7I-BP3MW1-4Y-2
Date of Issue	:	Jan. 10, 2022
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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1 Version

Version No.	Date	Description
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3 General Information

3.1 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

3.2 General Description of EUT

Product Name:	Digital Blood Pressure Monitor
Test Model No.:	BP3MW1-4Y
Trade mark:	microlife
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Power Supply:	AC Adapter:100～240V-50/60Hz 0.3A OUTPUT:6V⎓0.6A Battery: 4xAA 1.5V
Test Voltage:	AC 120V
Sample Received Date:	Dec. 17, 2021
Sample tested Date:	Dec. 17, 2021 to Dec. 22, 2021
Remark: Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.	

3.3 General Description of BLE

Operation Frequency:	2402MHz~2480MHz
Modulation Technique:	DSSS
Modulation Type:	GFSK
Number of Channel:	40
Test Power Grade:	Default
Software Version:	N/A
Antenna Type and Gain:	Type: PCB printed antenna Gain: 0dBi

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

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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)] · [√f(GHz)] ≤ 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 calculation[17]

The result is rounded to one decimal place for comparison

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

4.1.2 EUT RF Exposure

1) For BLE

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-0.65	-1±1	0	1
Middle(2442MHz)	-1.63	-1±1	0	1
Highest(2480MHz)	-3.24	-3±1	-2	0.631

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-0.65	-1±1	0	1	0.3	3.0
Middle (2442MHz)	-1.63	-1±1	0	1	0.3	
Highest (2480MHz)	-3.24	-3±1	-2	0.631	0.2	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32N81381101.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N81381101 for EUT external and internal photos.

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 ***