

RF Exposure Evaluation Report

Product : Blood Pressure Monitor
Trade mark : N/A
Model/Type reference : 2006-2B
Serial Number : N/A
Report Number : EED32K00297602
FCC ID : 2AHLE-BPMB001
Date of Issue : May 20, 2019
47 CFR Part 1.1307
Test Standards : 47 CFR Part 2.1093
KDB 447498D01 v06
Test result : PASS

Prepared for:

Bioland Technology Ltd.

**A6b7 (Block G), Shangrong Ind. Zone Baolong 5th Rd, Longgang
District 518116, Shenzhen, Guangdong, China**

Prepared by:

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May 20, 2019

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2 Version

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3 Contents

	Page
1 COVER PAGE.....	1
2 VERSION.....	2
3 CONTENTS.....	3
4 GENERAL INFORMATION.....	4
4.1 CLIENT INFORMATION.....	4
4.2 GENERAL DESCRIPTION OF EUT.....	4
4.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD.....	4
4.4 TEST LOCATION.....	5
4.5 DEVIATION FROM STANDARDS.....	5
4.6 ABNORMALITIES FROM STANDARD CONDITIONS.....	5
4.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	5
5 SAR EVALUATION.....	6
5.1 RF EXPOSURE COMPLIANCE REQUIREMENT.....	6
5.1.1 Standard Requirement.....	6
5.1.2 Limits.....	6
5.1.3 EUT RF Exposure.....	6
PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS.....	7

4 General Information

4.1 Client Information

Applicant:	Bioland Technology Ltd.
Address of Applicant:	A6b7 (Block G), Shangrong Ind. Zone Baolong 5th Rd, Longgang District 518116, Shenzhen, Guangdong, China
Manufacturer:	Bioland Technology Ltd.
Address of Manufacturer:	A6b7 (Block G), Shangrong Ind. Zone Baolong 5th Rd, Longgang District 518116, Shenzhen, Guangdong, China
Factory:	Bioland Technology Ltd.
Address of Factory:	A6b7 (Block G), Shangrong Ind. Zone Baolong 5th Rd, Longgang District 518116, Shenzhen, Guangdong, China

4.2 General Description of EUT

Product Name:	Blood Pressure Monitor
Model No.(EUT):	2006-2B
Test Model No.:	2006-2B
Trade mark:	N/A
EUT Supports Radios application:	BT: 4.0 BT Single mode: 2402MHz to 2480MHz

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Sample Type:	Portable production
Test Power Grade:	N/A
Test software of EUT:	SmartRF_Studio_7(manufacturer declare)
Antenna Type:	PCB Antenna
Antenna Gain:	1.43dBi
Power Supply:	AA ALKALINE Battery 4X1.5V
Conduct Peak Power:	-2.573dBm
	The Conduct Peak Power data refer to the report EED32K00297601
Sample Received Date:	Nov. 05, 2018
Sample tested Date:	Nov. 21, 2018 to Nov. 28, 2018
The tested sample(s) and the sample information are provided by the client.	

Report No. : EED32K00297602

Page 5 of 7

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.

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:

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

5.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is -2.573dBm in highest channel(2.480GHz);

The best case gain of the antenna is 1.43dBi.

EIRP= -2.573dBm + 1.43dBi = -1.143dBm

-1.143dBm logarithmic terms convert to numeric result is nearly 0.769mW

According to the formula. calculate the EIRP test result:

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

General RF Exposure = $(0.769\text{mW} / 5 \text{ mm}) \times \sqrt{2.402\text{GHz}} = 0.2384$ ①

SAR requirement:

S= 3.0

② ;

① < ②.

So the SAR report is not required.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32K00297601 for EUT external and internal photos.

*** End of Report ***

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