

RF Exposure Evaluation Report

Product : Blood Pressure Monitor
Trade mark : N/A
Model/Type reference : BUA6350
Serial Number : N/A
Report Number : EED32L00104502
FCC ID : 2ABRGBUA6350
Date of Issue : May 23, 2019
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB 447498 D01 v06
Test result : PASS

Prepared for:

Kaz USA, Inc.

**400 DONALD LYNCH BOULEVARD SUITE 300
MARLBOROUGH, MA 01752**

Prepared by:

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May 23, 2019

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2 Version

Version No.	Date	Description
00	May 23, 2019	Original

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4 General Information

4.1 Client Information

Applicant:	Kaz USA, Inc.
Address of Applicant:	400 DONALD LYNCH BOULEVARD SUITE 300 MARLBOROUGH, MA 01752
Manufacturer:	Guangdong Transtek Medical Electronics Co., Ltd.
Address of Manufacturer:	Zone A, No.105 , Dongli Road, Torch Development District, Zhongshan, 528437, Guangdong,China
Factory:	Guangdong Transtek Medical Electronics Co., Ltd.
Address of Factory:	Zone B, No.105, Dongli Road, Torch Development District, Zhongshan, 528437, Guangdong, China

4.2 General Description of EUT

Product Name:	Blood Pressure Monitor
Model No.(EUT):	BUA6350
Trade mark:	N/A
EUT Supports Radios application:	BT: 4.0 BLE Single mode: 2402MHz to 2480MHz ;

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Hardware version:	V1.0 (manufacturer declare)
Firmware version:	1.0.13 (manufacturer declare)
Antenna Type:	PCB Printed Trace (PIFA)
Antenna Gain:	5 dBi
Power Supply:	AA Battery 4X1.5V
Max Conducted Peak Output Power:	-3.052dBm The Max Conducted Peak Output Power data refer to the report EED32L00104501
Sample Received Date:	May 08, 2019
Sample tested Date:	May 13, 2019 to May 16, 2019
Remark: The tested sample(s) and the sample information are provided by the client.	

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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 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 -3.052dBm in lowest channel(2.402GHz);

The best case gain of the antenna is 5 dBi.

$EIRP = -3.052\text{dBm} + 5\text{dBi} = 1.948\text{dBm}$

1.948dBm logarithmic terms convert to numeric result is nearly 0.0016mW

According to the formula. calculate the EIRP test result:

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

General RF Exposure = $(0.0016\text{mW} / 5 \text{ mm}) \times \sqrt{2.402\text{GHz}} = 0.00050$ 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. EED32L00104501 for EUT external and internal photos.

*** End of Report ***

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