

RF Exposure Evaluation Report

Product : Biometric Monitor
Trade mark : BodyPlus
Model/Type reference : Aero S02
Serial Number : N/A
Report Number : EED32J00172102
FCC ID : 2ANCC-BE1602SZ
Date of Issue : Aug. 16, 2017
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 v06
Test result : PASS

Prepared for:

BodyPlus Technology Co.,Ltd
1st Floor, No.5 Wing Building, Maximilian Hotel,
Beiyuan East Road, Chaoyang District, Beijing

Prepared by:

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2 Version

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4 General Information

4.1 Client Information

Applicant:	BodyPlus Technology Co.,Ltd
Address of Applicant:	1st Floor, No.5 Wing Building, Maximilian Hotel, Beiyuan East Road, Chaoyang District, Beijing
Manufacturer:	BodyPlus Technology Co.,Ltd
Address of Manufacturer:	1st Floor, No.5 Wing Building, Maximilian Hotel, Beiyuan East Road, Chaoyang District, Beijing
Factory:	Shenzhen Q&D Circuits Co., Ltd
Address of Factory:	Block A1, Fufa Industrial Park, Fuyong, Baoan, Shenzhen, China

4.2 General Description of EUT

Product Name:	Biometric Monitor
Model No.(EUT):	Aero S02
Trade mark:	BodyPlus
EUT Supports Radios application:	BT4.0 Single Mode, 2402MHz-2480MHz

4.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK
Test Power Grade:	2(manufacturer declare)
Test Software of EUT:	nRF Studio V1.20.0.2 (manufacturer declare)
Antenna Type:	PCB Antenna
Hardware Version	0.6 (manufacturer declare)
Software Version	0.24 (manufacturer declare)
Antenna Gain:	3.3dBi
Power Supply:	Battery: 3.7V/70mAh Supply by DC 5V
Max Conducted Output Power:	-1.466dBm
Sample Received Date:	Aug. 8, 2017
Sample tested Date:	Aug. 8, 2017 to Aug. 16, 2017
The tested sample and the sample information are provided by the client.	

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax: +86 (0) 755 3368 3385

No tests were sub-contracted.

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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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
$$f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz}$$

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 Output Power is -1.466dBm in Lowest channel(2.402GHz);

-1.466dBm logarithmic terms convert to numeric result is nearly 0.71mW

According to the formula:

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

General RF Exposure = $(0.71\text{mW} / 5 \text{ mm}) \times \sqrt{2.402\text{GHz}} = 0.22$ 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. EED32J00172101 for EUT external and internal photos.

*** End of Report ***

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