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Report No.: SHEM170600389202  
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**1 Cover Page**

***RF MPE REPORT***

<b>Application No.:</b>	SHEM1706003892CR
<b>Applicant:</b>	Anhui Huami Information Technology Co., Ltd.
<b>FCC ID:</b>	2AC8UA1608
<b>Equipment Under Test (EUT):</b>	
<b>NOTE:</b> The following sample(s) was/were submitted and identified by the client as	
<b>Product Name:</b>	AMAZFIT BIP
<b>Model No.(EUT):</b>	A1608
<b>Standards:</b>	FCC Rules 47 CFR §2.1093 KDB447498 D01 General RF Exposure Guidance v06
<b>Date of Receipt:</b>	2017-06-20
<b>Date of Test:</b>	2017-06-20 to 2017-07-01
<b>Date of Issue:</b>	2017-07-03
<b>Test Result:</b>	<b>Pass*</b>

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above



**Parlam Zhan**  
**E&E Section Manager**  
**SGS-CSTC (Shanghai) Co., Ltd.**

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Revision Record				
Version	Chapter	Date	Modifier	Remark
00	/	2017-07-03	/	Original

Authorized for issue by:			
Tested By	<i>Leon Wu</i>	2017-07-03	Date
	_____ Leon Wu /Project Engineer		
Checked By	<i>Parlam Zhan</i>	2017-07-03	Date
	_____ Parlam Zhan /Reviewer		

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### 3 General Information

#### 3.1 Client Information

Applicant:	Anhui Huami Information Technology Co., Ltd.
Address of Applicant:	Building A4, 12th Floor, No. 800 Wangjiang Road, Hefei, China (230088)
Manufacturer:	Anhui Huami Information Technology Co., Ltd.
Address of Manufacturer:	Building A4, 12th Floor, No. 800 Wangjiang Road, Hefei, China (230088)
Factory:	Anhui Huami Information Technology Co., Ltd.
Address of Factory:	Building A4, 12th Floor, No. 800 Wangjiang Road, Hefei, China (230088)

#### 3.2 General Description of E.U.T.

Product Description:	Portable product with BT function
Battery:	DC 3.8V, 200mAh rechargeable Li-ion battery

#### 3.3 Technical Specifications

Operation Frequency:	2402MHz-2480MHz
Bluetooth Version:	BT 4.0 Single mode
Modulation Type:	GFSK
Number of Channel:	40
Antenna Type	FPC Antenna
Antenna Gain	-1.76 dBi

### 3.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

### 3.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868, C-4336, T-2221, G-830 respectively.

## 4 Test Standards and Limits

### 4.1 FCC Radiofrequency radiation exposure limits:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

$[(\text{max power of channel})/(\text{min test separation distance})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  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
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds

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  $<$  5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

For 2.4G band device, the limit of worse case is

$$P_{\text{max}} \leq 3.0 \cdot D_{\text{min}} / \sqrt{f} = 3.0 \cdot 5 / \sqrt{2.480} = 9.525 \text{mW}$$

## 5 Measurement and Calculation

### 5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM170600389201

Test Mode	Test Channel	Ant	Power[dBm]	Power[mW]	Limit[dBm]	Power[mW]
BLE	2402	Ant1	-2.273	0.59	30	0.76
BLE	2440	Ant1	<b>-2.092</b>	<b>0.62</b>	30	0.66
BLE	2480	Ant1	-2.247	0.60	30	0.59

## 5.2 MPE Calculation

The Max Conducted Peak Output Power is 0.62mW;

The best case gain of the antenna is -1.76dBi. -1.76dB logarithmic terms convert to numeric result is nearly 0.667.

According to the formula. calculate the EIRP test result:

$$\text{EIRP} = P \times G = 0.62 \text{ mW} \times 0.667 = 0.41354\text{mW} < 9.525\text{mW}$$

So the device is exclusion from SAR test.

## 6 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

**--End of the Report--**