



## MPE Test Report

**Report No.:** XRX-17OC1196VCSPB-2

**FCC ID:** 2AC8UA1702

**Product:** Amazfit Cor

**Model:** A1702

**Received Date:** Nov.01, 2017

**Test Date:** Nov.10 to Nov.20, 2017

**Issued Date:** Nov.25, 2017

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### Release Control Record

Issue No.	Description	Date Issued
XRX-17OC1196VCSPB-2	Original release	Nov.25, 2017



## 2 General Information

### 2.1 General Description of EUT

Product	Amazfit Cor
Brand	Amazfit
Test Model	A1702
Model Difference	--
Power Rating	DC5V
Modulation Type	GFSK
Modulation Technology	Bluetooth Low Energy 4.0
Operating Frequency	2.402 ~ 2.480GHz
Number of Channel	40
Antenna Type	PCB antenna
Antenna Connector	--
Antenna Gain	-7dBi

Note: For more details, please refer to the User's manual of the EUT.



### 3 Test Standards and Limits

#### 3.1 Limits For FCC Radiofrequency radiation exposure:

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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

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

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

## 4 Measurement and Calculation

### 4.1 Maximum transmit power

The Power Data is based on the RF Test Report XRX-17OC1196CSPB-1

Test Mode	CH	Test Channel	Power[dBm]	Power[mW]	Limit[dBm]
BLE	Low	2402	-4.89	0.32	30
BLE	Mid	2440	-4.88	0.33	30
BLE	High	2480	-4.69	0.34	30

One antenna is available for the EUT (BLE antenna).

#### BLE Mode:

The maximum average output power in Low channel of Bluetooth is -4.89 dBm=0.32mW

The calculation results= $0.32/5 \times \sqrt{2.402} = 0.041 < 3$

The maximum average output power in Mid channel of Bluetooth is -4.88 dBm=0.33mW

The calculation results= $0.33/5 \times \sqrt{2.440} = 0.042 < 3$

The maximum average output power in High channel of Bluetooth is -4.69 dBm=0.34mW

The calculation results= $0.34/5 \times \sqrt{2.480} = 0.043 < 3$

**Test Result: Pass**

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