## **RF Exposure**

The equipment under test (EUT) is a Fitness Tracker with Bluetooth 4.0 function operating in 2402-2480MHz. The EUT is powered by DC 3.7V by rechargeable battery. For more detail information pls. refer to the user manual.

## BT 4.0 BLE Mode:

Modulation Type: GFSK

Bluetooth Version: 4.0 BLE (Single Mode)

Antenna Type: Integral antenna.

Antenna Gain: -3.81dBi.

The nominal conducted output power specified: -13.19dBm (±2dB). The nominal radiated output power (e.i.r.p) specified: -17.00dBm (±2dB)

## According to the KDB 447498:

The maximun peak radiated emission for the EUT is  $79.9 dB\mu V/m$  at 3m in the frequency 2402 MHz

The EIRP =  $[(FS*D)^2 / 30]$  mW = -15.33dBm which is within the production variation.

The minimum peak radiated emission for the EUT is  $77.5 dB\mu V/m$  at 3m in the frequency 2440 MHz

The EIRP =  $[(FS*D)^2 / 30]$  mW = -17.73dBm which is within the production variation.

The maximun conducted output power specified is -11.19dBm = 0.08mW

The source- based time-averaging conducted output power

- = 0.08 \* Duty factor mW (where Duty Factor≤1)
- = 0.08 mW

## The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (2.480) mW
- $= 9.53 \, \text{mW}$

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.