

INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a Smart Bracelet with Bluetooth FHSS technology operating in 2402-2480MHz. The EUT is powered by DC 3.7V lithium battery which can be charged by USB port. The USB port is only use for charging purpose. The EUT can't be operated while charging. For more detail information pls. refer to the user manual.

Modulation Type: GFSK

Bluetooth Version: 4.0 BLE

Antenna Type: Integral antenna

Antenna Gain: -5.18 dBi

The nominal conducted output power specified: -5.0dBm (Tolerance: +/-5dB)

According to the KDB 447498:

The maximum conducted emission for the EUT is -3.87dBm at the frequency 2.402GHz which is within the production variation

The minimum conducted emission for the EUT is -5.52dBm at the frequency 2.480GHz which is within the production variation

The maximum conducted output power specified is 0dBm = 1.0mW

The source-based time-averaging conducted output power
= $1.0 * \text{Duty cycle mW} \leq 1.0 \text{ mW}$ (Duty cycle ≤ 1)

The SAR Exclusion Threshold Level:

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

= $3.0 * 5 / \text{sqrt}(2.480) \text{ mW}$

= 9.53 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.