

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a ACTIVITY TRACKER with Bluetooth function. The EUT was powered by a 3.7 VDC Li-ion rechargeable battery which is charged by USB Power Adapter with AC 120V, 60Hz. For more detail information pls. refer to the user manual.

Bluetooth Version: 4.0 (single mode) Low Energy Standard

Modulation Type: GFSK

Antenna Type: Integral antenna.

Antenna Gain: 0.0dBi.

The nominal conducted output power specified: -5dBm +/-1dB.

The nominal radiated output power (e.i.r.p) specified: -5dBm (+/- 1dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 91.2dBμV/m at 3m in the frequency 2442MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -4.03dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 90.0dBμV/m at 3m in the frequency 2402MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = -5.23dBm
which is within the production variation.

The maximum conducted output power specified is -4.0dBm = 0.4mW

The source- based time-averaging conducted output power
= $0.4 \cdot \text{Duty Cycle}$ mW (where Duty Cycle ≤ 1)
 ≤ 0.4 mW

The SAR Exclusion Threshold Level:

= $3.0 \cdot (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$
= $3.0 \cdot 5 / \sqrt{2.480}$ mW
= 9.5 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.