RF Exposure

The equipment under test (EUT) is a WIRELESS 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: 1dBm (+/-3dB).
The nominal radiated output power (e.i.r.p) specified: 1dBm (+/- 3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is 97.9dBμV/m at 3m in the frequency 2442MHz
The EIRP = [(FS*D) ^2 / 30] mW =2.67dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 93.4dBμV/m at 3m in the frequency 2402MHz
The EIRP = [(FS*D) ^2 / 30] mW = -1.83dBm
which is within the production variation.

The maximun conducted output power specified is 4.0dBm = 2.5mW
The source- based time-averaging conducted output power
= 2.5 * Duty Cycle mW
≤ 2.5 mW

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.480) mW
= 9.5 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.