RF Exposure

The equipment under test (EUT) is a SPORTS HEADPHONES WITH BLUETOOTH with Bluetooth function. The EUT was powered by DC 3.7V, 110mAh rechargeable battery which can be charged by USB port (DC 5V). For more detail information pls. refer to the user manual.

Modulation Type: GFSK, π/4DQPSK, 8DPSK for BT4.1
Bluetooth Version: 4.1

Antenna Type: Integral antenna.
Antenna Gain: 0dBi.
The nominal conducted output power specified: -1.0dBm (+/-4dB).
The nominal radiated output power (e.i.r.p) specified: -1.0dBm (+/- 4dB).

According to the KDB 447498:

The maximun peak radiated emission for the EUT is 94.5dBμV/m at 3m in the frequency 2441MHz of BT 4.1
The EIRP = [(FS*D) ^2 / 30] mW = -0.7dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 91.3dBμV/m at 3m in the frequency 2402MHz of BT 4.1
The EIRP = [(FS*D) ^2 / 30] mW = -3.9dBm
which is within the production variation.

The maximun conducted output power specified is 3.0dBm = 2mW
The source- based time-averaging conducted output power
= 2 * Duty factor mW (where Duty Factor≤1)
= 2 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 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.