RF Exposure

The equipment under test (EUT) is a TRUE WIRELESS STEREO EARBUDS with Bluetooth function. The EUT is powered by DC 3.7V lithium battery which can be charged by DC 5V from the portable rechargeable box . For more detail information pls. refer to the user manual.

Modulation Type: GFSK, π/4DQPSK, 8DPSK

Bluetooth Version: BT 4.1(without BLE mode)

Antenna Type: Integral antenna.
Antenna Gain: 0dBi.
The nominal conducted output power specified: 2.7dBm (+/-3dB).
The nominal radiated output power (e.i.r.p) specified: 2.7dBm (+/- 3dB)

According to the KDB 447498:

The minimum peak radiated emission for the EUT is 96.6dBμV/m at 3m in the frequency 2402MHz.
The EIRP = [(FS*D) ^2 / 30] mW = 1.37dBm
which is within the production variation.

The maximun peak radiated emission for the EUT is 100.9dBμV/m at 3m in the frequency 2480MHz.
The EIRP = [(FS*D) ^2 / 30] mW = 5.67dBm
which is within the production variation.

The maximun conducted output power specified is 5.7dBm = 3.72mW
The source- based time-averaging conducted output power
= 3.72 * Duty factor mW (where Duty Factor≤1)
= 3.72 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.