

RF Exposure

The equipment under test (EUT) is a WIRELESS EARPHONES with BT function operating in 2402-2480MHz. The EUT is powered by DC 3.7V rechargeable battery. The Bluetooth transmitter function will be disabled while charging. For more detail information pls. refer to the user manual.

Modulation Type: GFSK, $\pi/4$ -DQPSK

Antenna Type: Integral antenna.

Antenna Gain: -0.58dBi Max

The nominal conducted output power specified: -7.43dBm (± 4 dB).

The nominal radiated output power (e.i.r.p) specified: -8.01dBm (± 4 dB).

According to the KDB 447498:

The maximum conducted output power for the EUT is -7.43dBm in the frequency 2402MHz which is within the production variation.

The minimum conducted output power for the EUT is -7.76dBm in the frequency 2480MHz which is within the production variation.

The maximum conducted output power specified is -3.43dBm = 0.45mW

The source- based time-averaging conducted output power

= 0.45 * Duty factor mW (where Duty Factor ≤ 1)

= 0.45 mW

The SAR Exclusion Threshold Level:

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

= $3.0 * 5 / \sqrt{2.480}$ 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.