INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Wireless Earbuds with Bluetooth 5.1 EDR function operating in 2402-2480MHz. The EUT is powered by DC 3.7V by battery which can be charged by DC 5V/1A input. The Bluetooth function will be disabled while charging. For more detail information pls. refer to the user manual.

Bluetooth Version: 5.1 EDR mode Antenna Type: Integral antenna

Modulation Type: GFSK, p/4-DQPSK, 8DPSK

Antenna Gain: 0.58dBi Max

The nominal conducted output power specified: -13.0dBm (+/-3dB)

The nominal radiated output power (e.i.r.p) specified: -12.42dBm (+/- 3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is $84.5 dB\mu V/m$ at 3m in the frequency 2402 MHz

The EIRP = $[(FS*D) ^2 / 30] \text{ mW} = -10.73 dBm$

which is within the production variation.

The minimum peak radiated emission for the EUT is $80.7 dB\mu V/m$ at 3m in the frequency 2480 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -14.53dBm which is within the production variation.

The maximun conducted output power specified is -10 dBm = 0.1 mW

The source- based time-averaging conducted output power

- = 0.1 * Duty factor mW (where Duty Factor≤1)
- = 0.1 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.

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