INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Bluetooth earphone with Bluetooth function. The EUT was powered by DC 3.7V lithium battery or DC 5V from USB port through the AC adapter and PC. For more detail information pls. refer to the user manual.

Modulation Type: GFSK, π /4DQPSK, 8DPSK Bluetooth Version: 4.2 without BLE function

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The nominal conducted output power specified: 0.3dBm (+/-3dB).

The nominal radiated output power (e.i.r.p) specified: 0.3dBm (+/- 3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is $92.8dB\mu V/m$ at 3m in the frequency 2402MHz.

The EIRP = $[(FS*D)^2 / 30]$ mW = -2.43dBm which is within the production variation.

The minimum peak radiated emission for the EUT is $92.6dB\mu V/m$ at 3m in the frequency 2480MHz.

The EIRP = $[(FS*D) ^2 / 30]$ mW = -2.63dBm which is within the production variation.

The maximun conducted output power specified is 3.3dBm = 2.14mW The source- based time-averaging conducted output power

- = 2.14 * Duty factor mW (where Duty Factor≤1)
- = 2.14 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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