INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Anytime Fitness Speaker which has Bluetooth function. The EUT was powered by the fully-charged DC 3.7V rechargeable battery which was charged by USB port (DC 5V). For more detail information pls. refer to the user manual.

Modulation Type: GFSK, $\pi/4DQPSK$, 8DPSK Bluetooth Version: 4.1 without BLE function

Antenna Type: Integral antenna

Antenna Gain: 0.5dBi

The nominal radiated output power (e.i.r.p) specified: 2dBm (Tolerance: +/-

3dB)

The nominal conducted output power specified: 1.5dBm (Tolerance: +/- 3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is $97.3 dB\mu V/m$ at 3m in the frequency 2402 MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = 2.07dBm which is within the production variation.

The minimum peak radiated emission for the EUT is $97.1dB\mu V/m$ at 3m in the frequency 2480MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = 1.87dBm which is within the production variation.

The maximun conducted output power specified is 4.5dBm = 2.82mW The source- based time-averaging conducted output power

- = 2.82 * Duty factor mW (where Duty Factor≤1)
- = 2.82 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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