INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Bluetooth wireless speaker with Bluetooth function operating in 2402-2480MHz. The EUT is powered by DC 3.7V from rechargeable battery which can be charged by USB port. For more detail information pls. refer to the user manual.

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

Bluetooth Version: 4.2(without BLE) Antenna Type: Integral antenna

Antenna Gain: 0 dBi Max

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

3dB)

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

According to the KDB 447498:

The maximun peak radiated emission for the EUT is 93.8 dB μ V/m at 3m in the frequency 2441MHz of BT 4.2

The EIRP = $[(FS*D) ^2 / 30] \text{ mW} = -1.4 \text{ dBm}$ which is within the production variation.

The minimum peak radiated emission for the EUT is 93.1 dB μ V/m at 3m in the frequency 2402MHz of BT 4.2

The EIRP = $[(FS*D) ^2 / 30] \text{ mW} = -2.1 \text{ dBm}$ which is within the production variation.

The maximun conducted output power specified is 3.3dBm = 2.138 mW The source- based time-averaging conducted output power

- = 2.138 * Duty factor mW (where Duty Factor ≤1)
- = 2.138 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.

FCC ID: VIXSP370