INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Wireless Speaker with Bluetooth function. The EUT was powered by the fully-charged DC 3.7V, 400mAh new rechargeable battery which was charged by USB port (DC 5V). For more detail information pls. refer to the user manual.

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

Bluetooth Version: 2.1 with EDR.

Antenna Type: Integral antenna.

Antenna Gain: 2.1dBi.

The nominal conducted output power specified: -12.0dBm +/-3dB.

The nominal radiated output power (e.i.r.p) specified: -9.9dBm (+/- 3dB)

According to the KDB 447498:

The maximun peak radiated emission for the EUT is $85.2 dB\mu V/m$ at 3m in the frequency 2441 MHz

The EIRP = $[(FS*D)^2 / 30] \text{ mW} = -10.0 \text{dBm}$

which is within the production variation.

The minimum peak radiated emission for the EUT is 84.2dBµV/m at 3m in the frequency 2480MHz

The EIRP = $[(FS*D) ^2 / 30]$ mW = -11.0dBm which is within the production variation.

The maximun conducted output power specified is -9.0dBm = 0.126mW The source- based time-averaging conducted output power

- = 0.126 * Duty Cycle mW (where Duty Cycle<100%)
- < 0.126 mW

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.480) mW
- $= 9.5 \, \text{mW}$

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: 2AG7O-GELISHMTSPK