INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a Wireless Subwoofer Kit. The EUT was powered by AC/DC adapter (Input: AC 120V, 60Hz, 7W, Output: DC 9.0V, 200mA). For more detail information pls. refer to the user manual.

Modulation Type: GFSK

Antenna Type: Integral antenna

Antenna Gain: 1.7dBi

The nominal radiated output power (e.i.r.p) specified: 0dBm (Tolerance: +/-

3dB)

The nominal conducted output power specified: -1.7dBm (Tolerance: +/- 3dB)

According to the KDB 447498:

The maximum radiated emission for the EUT is $96.0 dB\mu V/m$ at 3m in the frequency 2.472 GHz

- $= [(FS*D) ^2 / 30] mW$
- = 0.8dBm which is within the production variation.

The minimum radiated emission for the EUT is $92.7 dB\mu V/m$ at 3m in the frequency 2.406 GHz

- $= [(FS*D)^2 / 30] mW$
- = -2.5dBm which is within the production variation.

The maximun conducted output power specified is 1.3dBm = 1.35mW The source- based time-averaging conducted output power

= 1.35 * Duty cycle mW= 0.63 mW

The SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.472) 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.

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Transmitter Duty Cycle Calculation

The duration of one cycle = 58.0ms Effective period of the cycle = 3.8*3+7.8*2=27.0ms DC = 27.0ms / 58.0ms = 0.4655 or 46.55%

FCC ID: 2AAH3-1500491T