

INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a LED TV with 2.4GHz wireless transmission function operating in 2409-2413MHz. It is powered by AC100-240V, 50/60Hz. For more detailed features description, please refer to the user's manual.

Modulation Type: GFSK

Antenna Type: Integral antenna (Gain: 0 dBi)

The nominal radiated output power (e.i.r.p) specified: 5dBm (Tolerance: +/-3dB)

The nominal conducted output power specified: 5dBm (Tolerance: +/-3dB)

According to the KDB 447498:

The maximum radiated emission for the EUT is 100.9dBμV/m at 3m in the frequency

$$2.409\text{GHz} = [(FS \cdot D)^2 / 30] \text{ mW}$$

= 5.7dBm which is within the production variation

The minimum radiated emission for the EUT is 98.9dBμV/m for at 3m in the frequency

$$2.411\text{GHz} = [(FS \cdot D)^2 / 30] \text{ mW}$$

= 3.7dBm which is within the production variation.

The maximum conducted output power specified is 8dBm = 6.3mW

The source- based time-averaging conducted output power

$$= 6.3 \cdot \text{Duty cycle mW} \leq 6.3 \text{ mW (Duty Cycle} \leq 100\%)$$

The SAR Exclusion Threshold Level:

$$= 3.0 \cdot (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$$

$$= 3.0 \cdot 5 / \sqrt{2.480} \text{ mW}$$

$$= 9.5 \text{ mW}$$

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.