

INTERTEK TESTING SERVICES

Analysis Report

The Equipment Under Test (EUT) is a camera with WiFi function operating at 2412-2462MHz for 802.11b/g/n-HT20, 11 channels with 5MHz channel spacing and 2422-2452MHz for 802.11n-HT40, 7 channels with 5MHz channel spacing. The EUT was powered by DC 3.7V internal rechargeable battery. For more detail information pls. refer to the user manual.

Modulation Type: BPSK, QPSK, 16QAM, 64QAM, CCK, DQPSK, DBPSK
Antenna Type: Integral antenna (Gain: 0 dBi)

The nominal radiated output power (e.i.r.p) specified: 8dBm (Tolerance: +/-1.4dB)
The nominal conducted output power specified: 8dBm (Tolerance: +/-1.4dB)

According to the KDB 447498:

The maximum conducted emission for the EUT is 9.4dBm at the frequency 2.412GHz in 802.11b, 2.462GHz in 802.11g and 2.422GHz in 802.11n-HT40 which is within the production variation

The minimum conducted emission for the EUT is 9.1dBm for at the frequency 2.452GHz in 802.11n-HT40 which is within the production variation

The maximum conducted output power specified is 9.4dBm = 8.7mW
The source- based time-averaging conducted output power
 $= 8.7 * \text{Duty cycle} \text{ mW} = 8.7 \text{ mW} * 1 = 8.7 \text{ mW}$

The SAR Exclusion Threshold Level:
 $= 3.0 * (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$
 $= 3.0 * 5 / \sqrt{2.462} \text{ mW}$
 $= 9.56 \text{ mW}$

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.