

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Remote Control with 2.4G WIFI function operating in 2412-2462MHz and 5G WIFI function operating in 5150MHz~5250 MHz,5725MHz~5850MHz. 2.4G WIFI function and 5G WIFI function cannot be simultaneous transmission. The EUT is powered by DC 3.0V(2*1.5V AAA batteries). For more detail information pls. refer to the user manual.

2.4G WIFI Function:

Antenna Type: Integral antenna

Modulation Type: CCK, BPSK, QPSK, 16QAM, 64QAM, DQPSK, DBPSK

Antenna Gain: 2.5dBi Max

The nominal conducted output power specified: 5.0dBm (+/-2dB)

The nominal radiated output power(e.i.r.p) specified: 7.5dBm (+/-2dB)

The maximum conducted output power for the EUT is 5.63dBm in the frequency 2437MHz which is within the production variation.

The minimum conducted output power for the EUT is 4.47dBm in the frequency 2462MHz which is within the production variation.

The maximum conducted output power specified is 7.0dBm = 5.01mW

The source- based time-averaging conducted output power

=5.01 * Duty factor mW (where Duty Factor ≤ 1)

= 5.01 mW

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.462) mW

= 9.56 mW

5G WIFI Function:

Antenna Type: Integral antenna

Modulation Type: BPSK, QPSK, 16QAM, 64QAM, DQPSK, DBPSK

Antenna Gain: 2.5dBi Max

The nominal conducted output power specified: 5.0dBm (+/-2dB)

The nominal radiated output power(e.i.r.p) specified: 7.5dBm (+/-2dB)

The maximum conducted output power for the EUT is 5.50dBm in the frequency 5745MHz(802.11 a) which is within the production variation.

The minimum conducted output power for the EUT is 5.09dBm in the frequency 5825MHz(802.11a) which is within the production variation.

The maximum conducted output power specified is 7.0dBm = 5.01mW

The source- based time-averaging conducted output power

=5.01 * Duty factor mW (where Duty Factor \leq 1)

= 5.01 mW

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (5.825) mW

= 6.22 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.