

# INTERTEK TESTING SERVICES

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## RF Exposure report

The equipment under test (EUT) is a RF 2.4G Module. The EUT was powered by DC 2.4V - DC 3.6V (3.3V typical). For more detail information pls. refer to the user manual.

Modulation Type: OQPSK.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The nominal conducted output power specified: 4dBm +/-3dB.

The nominal radiated output power (e.i.r.p) specified: 4dBm (+/- 3dB)

According to the KDB 447498:

The minimum peak radiated emission for the EUT is 98.3dB $\mu$ V/m at 3m in the frequency 2475MHz

The EIRP = [(FS\*D) ^2 / 30] mW = 3.1dBm  
which is within the production variation.

The maximum peak radiated emission for the EUT is 101.7dB $\mu$ V/m at 3m in the frequency 2405MHz

The EIRP = [(FS\*D) ^2 / 30] mW = 6.5dBm  
which is within the production variation.

The maximum conducted output power specified is 7dBm = 5.0mW

The source-based time-averaging conducted output power  
= 5.0 \* Duty Cycle mW= 5.0 mW

The SAR Exclusion Threshold Level:

= 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)  
= 3.0 \* 5 / sqrt (2.405) mW  
= 9.67 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.

Transmitter Duty Cycle Calculation

The EUT transmit continuously during the test, the duty cycle is 1.

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This requirement is according to KDB 865664 D02

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