

INTERTEK TESTING SERVICES

RF Exposure report

The Equipment Under Test (EUT) is a Bluetooth Module with Bluetooth function operating at 2402-2480MHz, 40 channels with 2MHz channel spacing. The EUT was powered by DC 3.3V. For more detailed features description, please refer to the user's manual.

Antenna Type: Integral antenna.

Antenna Gain: 0.9dBi

Modulation Type: GFSK.

The nominal conducted output power specified: -2dBm +/-3dB.

The maximum conducted output power for the EUT is -2.17dBm in the frequency 2.480GHz which is within the production variation.

The minimum conducted output power for the EUT is -3.39dBm in the frequency 2.402GHz mode which is within the production variation.

According to the KDB 447498, the simple calculation as below:

The maximum conducted output power specified is 1.0dBm = 1.3mW

The source-based time-averaging conducted output power

= 1.3 * Duty Cycle mW = 1.3 mW

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.480) mW

= 9.5 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 test signal of the EUT is Continuous emission, so the Duty Cycle is 100%.