INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Vector with Bluetooth function operating at 2.4G Band. The EUT can be powered by DC 1.5V(1 X 1.5V LR1 battery). For more detail information pls. refer to the user manual.

Bluetooth Version: 4.1 BLE (single mode) Antenna Type: Integral antenna. Antenna Gain: 0dBi. The normal radiated output power (e.i.r.p) is: 1.0dBm (tolerance: +/- 3dB). The normal conducted output power is 1.0dBm (tolerance: +/- 3dB). Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is $97.0dB\mu V/m$ at 3m in the frequency 2402MHz The EIRP = [(FS*D) ^2 / 30] mW = 1.77dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $96.1dB\mu V/m$ at 3m in the frequency 2480MHz The EIRP = [(FS*D) ^2 / 30] mW = 0.87dBm which is within the production variation.

The maximum conducted output power specified is 4dBm = 2.5mWThe source- based time-averaging conducted output power =2.5* Duty cycle mW = 2.5 mW(Duty cycle $\leq 100\%$)

The SAR Exclusion Threshold Level: = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 * 5 / sqrt (2.480) mW = 9.53 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.

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