

INTERTEK TESTING SERVICES

RF Exposure

The Equipment under Test (EUT) is a BLUETOOTH TRANSMITTER model AIRLINE ADAPTOR which has Bluetooth function. It is powered by DC 3.7V, 250mAh rechargeable battery which can be charged by DC 5V USB port . For more detail information please refer to the user manual.

Antenna Type: PCB antenna.

Antenna Gain: 1dBi.

Modulation Type: GFSK, $\pi/4$ -DQPSK and 8-DPSK.

The nominal conducted output power specified: -1dBm (Tolerance: ± 7 dB)

The nominal radiated output power specified: 0dBm (Tolerance: ± 7 dB)

The maximum Radiated output power for the EUT is 6.6dBm in the frequency 2441MHz of BT3.0 which is within the production variation.

The minimum Radiated output power for the EUT is 3.6dBm in the frequency 2402MHz of BT3.0 which is within the production variation.

According to the KDB 447498:

The maximum conducted output power specified is 6.0dBm = 3.98mW

The source-based time-averaging conducted output power

= 3.98 * Duty Cycle mW (where Duty cycle ≤ 1)

≤ 3.98 mW

The SAR Exclusion Threshold Level:

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

= 3.0 * 5 / sqrt (2.480) mW

= 9.53 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.