

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a Remote Control with Bluetooth function operating in 2402-2480MHz. The EUT is powered by DC 3.0V(2*1.5V AAA batteries), For more detail information pls. refer to the user manual.

Standalone SAR evaluation for BT function

Bluetooth Version: 5.0 BLE (Single Mode)

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: -3.6dBi Max

The nominal conducted output power specified: 0.5dBm (+/-2dB)

The maximum conducted output power for the EUT is 0.62dBm in the frequency 2402MHz which is within the production variation.

The minimum conducted output power for the EUT is -0.46dBm in the frequency 2480MHz which is within the production variation.

The maximum conducted output power specified is 2.5dBm = 1.8mW

The source- based time-averaging conducted output power

= $1.8 * \text{Duty factor mW (where Duty Factor} \leq 1)$

= 1.8 mW

The SAR Exclusion Threshold Level:

= $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt}(\text{freq. in GHz})$

= $3.0 * 5 / \text{sqrt} (2.480) \text{ mW}$

= 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.