

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a HS-8C remote control with Bluetooth(BLE only) function operating in 2402-2480MHz. The EUT is powered by DC 3V for 2*AAA batteries. For more detailed features description, please refer to the user's manual.

Antenna Type: Integral antenna

Modulation Type: GFSK

Antenna Gain: 1.5dBi

Bluetooth Version: 5.0 BLE (Single Mode)

The nominal conducted output power specified: 0.0 dBm (± 2 dB)

The nominal radiated output power (e.i.r.p) specified: 1.5 dBm (± 2 dB)

The maximum conducted output power for the EUT is 0.07dBm in the frequency 2440MHz which is within the production variation.

The minimum conducted output power for the EUT is -0.26dBm in the frequency 2402MHz which is within the production variation.

The maximum conducted output power specified is 2dBm= 1.585mW

The source- based time-averaging conducted output power
=1.585* Duty cycle mW <1.585 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

$$P_{th}(mW) = ERP_{20cm} * (d/20cm)^x \quad (X = -\log_{10} \left(\frac{60}{ERP_{20cm} \sqrt{f}} \right))$$
$$= 3060 * (0.5/20)^{1.9} mW$$
$$= 2.72 mW$$

Since max. power of the source-based time-averaging conducted output power and effective radiated power (ERP) is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.