

INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a MONKEY with Bluetooth function. The EUT was powered by the fully-charged DC 3.7V, 2000mAh new rechargeable battery which was charged by USB port (DC 5V). For more detail information pls. refer to the user manual.

Modulation Type: GFSK, $\pi/4$ DQPSK, 8DPSK for BT 4.2.

Bluetooth Version: 4.2(without BLE)

Antenna Type: Integral antenna.

Antenna Gain: 1.2dBi Max

The nominal conducted output power specified: 5.0dBm (+/-3dB).

The nominal radiated output power (e.i.r.p) specified: 6.2dBm (+/- 3dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is 102.3dB μ V/m at 3m in the frequency 2402MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = 7.07dBm
which is within the production variation.

The minimum peak radiated emission for the EUT is 98.9dB μ V/m at 3m in the frequency 2480MHz

The EIRP = $[(FS \cdot D)^2 / 30]$ mW = 3.67dBm
which is within the production variation.

The maximum conducted output power specified is 8.0dBm = 6.3mW

The source- based time-averaging conducted output power
= 6.3 * Duty factor mW (where Duty Factor ≤ 1)
= 6.3 mW

The SAR Exclusion Threshold Level:

= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (2.480) mW
= 9.53 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.