

INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a ONN BT ONN BT SELFIE STICK with Bluetooth technology operating in 2402-2480MHz. The EUT is powered by DC 3.7V lithium battery which can be charged by USB port. For more detail information pls. refer to the user manual.

Modulation Type: GFSK
Bluetooth Version: 4.0 BLE
Antenna Type: Integral antenna
Antenna Gain: -3.0 dBi

The nominal conducted output power specified: -27.0dBm (Tolerance: +/-5dB)
The nominal radiated output power (e.i.r.p) specified: -30dBm (Tolerance: +/-5dB)

According to the KDB 447498:

The maximum radiated emission for the EUT is 68.6 dB μ V/m at 3m in the frequency 2.480GHz = $[(FS \cdot D)^2 / 30]$ mW
= -26.6 dBm which is within the production variation

The minimum radiated emission for the EUT is 68.0 dB μ V/m for at 3m in the frequency 2.440GHz = $[(FS \cdot D)^2 / 30]$ mW
= -27.2 dBm which is within the production variation

The maximum conducted output power specified is -22dBm = 0.006mW
The source- based time-averaging conducted output power
= 0.006 * Duty cycle mW \leq 0.006 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.