INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is a NANO OMNI X TM 2 ASST operating at 2.4G Band. The EUT can be powered by DC 6.0V (4 x 1.5V AA batteries). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna. Antenna Gain: 0dBi. The normal radiated output power (e.i.r.p) is: 0dBm (tolerance: +/- 3dB). The normal conducted output power is 0.0dBm (tolerance: +/- 3dB). Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is 97.1 dB μ V/m at 3m in the frequency 2440MHz The EIRP = [(FS*D) ^2 / 30] mW = 1.87dBm

which is within the production variation.

The maximum conducted output power specified is 3dBm= 1.995mW The source- based time-averaging conducted output power =1.995* Duty cycle mW <1.995 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level: = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 * 5 / sqrt (2.440) mW = 9.60 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.

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 3.9565ms Effective period of the cycle = 0.3913ms DC =0.3913ms / 3.9565ms =0.0989 or 9.89%

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