



29th May 2007

TOPC01-A4 Topcon Positioning Systems , Model GR-3 2.4 GHz Bluetooth

Maximum Permissible Exposure Calculations

FCC, Part 15 Subpart C §15.247(b)(5)
Industry Canada RSS-Gen § 5.5

Calculations for Maximum Permissible Exposure Levels

Power Density = Pd (mW/cm²) = EIRP/(4πd²)

EIRP = P * G

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

Numeric Gain = 10 ^ (G (dBi)/10)

For 0 dBi (1 num.) antenna P (worst case) = +6 dBm (3.98 mW)

Because the EUT belongs to the General Population / Uncontrolled Exposure the limit of power density is 1mW/cm²

Antenna Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated safe distance @ max limit 1mW/ cm ² (d=cm)
0	1	+6.0	3.98	0.56