4th April 2007

GMIS03-A2 G2 Microsystems Model 501RT01

Maximum Permissible Exposure

FCC, Part 15 Subpart C §15.247(b)(5)

Calculations for Maximum Permissible Exposure Levels

Power Density = Pd (mW/cm^2) = EIRP/(4πd^2)

EIRP = P * G

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

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

P (worst case) = +23.46 dBm, 221.82 mW

Antenna Gain (Worst Case) = 2.5 dBi, 1.78 numeric

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 1.0 mW/cm^2

The MPE calculations are calculated using the maximum allowable power levels calculated for each antenna in Section 5.1.2 "Peak Output Power" of the report.

Antenna Gain (dBi)	Numeric Gain (numeric)	Max Allowable Peak Power (dBm)	Max Allowable Peak Power (mW)	Calculated Safe Distance at 1 mW/cm^2 (cm)
2.5	1.78	+23.46	221.82	5.6