July 17, 2007

ARUB13-A2 Aruba Networks – 802.11 a/b/g Wireless Access Point AP-70

Maximum Permissible Exposure Calculations

FCC, Part 15 Subpart C §15.247(i)

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)

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

Freq. Band (GHz)	Antenna Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance @ 1mW/cm^2 Limit (cm)
2.4(b)	12	15.85	+18.75	75.0	9.8
2.4(g)	12	15.85	+22.95	197.3	15.8
5.8	14	25.12	+22.00	158.5	17.8