



Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to isotropic radiator
R = distance to the center of radiation of the antenna

WIFI 5250-5350 MHz

PWR in dBm	Maximum peak output power at antenna input terminal:	20.2 dBm
	Maximum peak output power at antenna input terminal:	104.5 mW
Ant. gain in dBi	Antenna gain(maximum):	2.5 dBi
	Maximum antenna gain:	1.8 numeric
Use the duty cycle from test report or 100%	Time Averaging:	100 %
Separation distance from antenna to user in cm.	Prediction distance:	20 cm
Freq. in MHz	Prediction frequency:	5270 MHz
	FCC MPE limit for uncontrolled exposure at prediction frequency:	1.00 mW/cm ²
	IC MPE limit for uncontrolled exposure at prediction frequency:	9.15 W/m ²
	Power density at prediction frequency:	0.04 mW/cm ²
	This equates to:	0.37 W/m ²