
Maximum Permissible Exposure (MPE)

The modular use shall be at least 20cm distance away from human body.

MPE Calculation Method:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power Density} = Pd(mW/cm^2) = \frac{E^2}{3770}$$

Combine these two formulas can be changed to:

$$Pd = \frac{30 \times P \times G}{3770 \times d^2}$$

Note:

1. "E" means Electric field (V/m)
2. "P" means Peak RF output power (W)
3. "G" means EUT Antenna numeric gain (numeric)
4. "d" means the minimum mobile separation distance is 0.2m between radiator and human body.

Antenna Gain

Antenna Gain: The maximum Gain is 0.44 dBi.

ANT	Modulation Type	Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)
	802.11b	01	2412	16.5	0.0039	< 1
		06	2437	17.6	0.0050	
		11	2462	17.8	0.0053	
	802.11g	01	2412	14.2	0.0023	< 1
		06	2437	15.4	0.0030	
		11	2462	15.9	0.0034	