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## Maximum Permissible Exposure (MPE)

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

MPE Calculation Method:

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

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 1.5 dBi.

Modulation Type	Channel	Frequency (MHz)	Output Power to Antenna(dBm)	Tune up Power (dBm)	Power Density (mW/cm <sup>2</sup> )	Limit of PowerDensity (mW/cm <sup>2</sup> )
O-QPSK	01	2405	-1.52	0	0.000281	< 1
	06	2445	-1.90	0	0.000281	
	16	2480	-2.38	-1	0.000223	