

MPE Exposure Formula:

$$S = (P \times G) / (4 \times \pi \times d^2)$$

where:

S = power density

P = transmitter conducted power in (mW)

G = antenna numeric gain

d = distance to radiation center (m) or (.02²) = .020 m

802.11a (5750 MHz)

Enter Data in Linear Units			
Gain =	9332.54	Numeric	39.7 dBi
Power =	200	mW	23 dBm
Frequency =	5750	MHz	1.000 mW/cm ²
Cable Loss =	0	dB	
EIRP =	1862087.1367	mW	1862087.1 mW
R (cm) =	384.9417958		S (20cm) = 370.450

802.11a (5825 MHz)

Enter Data in Linear Units			
Gain =	9332.54	Numeric	39.7 dBi
Power =	200	mW	23 dBm
Frequency =	5768	MHz	1.000 mW/cm ²
Cable Loss =	0	dB	
EIRP =	1862087.14	mW	1862087.1 mW
R (cm) =	384.9417958		S (20cm) = 370.450