MPE Exposure Formula:

S = (P X G) / (4 X π X d^2)

where:
S = power density
P = transmitter conducted power in (mW)
G = antenna numeric gain
d = distance to radiation center (m) or (.02^2) = .020 cm

Example

Enter Data in Linear Units					
Gain =	3	Numeric		4.77	dBi
Power =	417	mW		26.2	dBm
EIRP =	1250.26	mW		1250.26	mW
R (cm) =	9.9731502		S (20cm) =	0.249	

802.11A (5745 MHz)

Enter Data in Linear Units					
Gain =	5754	Numeric		37.6	dBi
Power =	19	mW		12.87	dBm
EIRP =	111429.45	mW		111429.453	mW
R (cm) =	94.1526095		S (20cm) =	22.168	