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

802.11B (2412 MHz)

Enter Data in Linear Units					
Gain =	2	Numeric		3	dBi
Power =	398	mW		26	dBm
EIRP =	794.33	mW		794.33	mW
R (cm) =	7.9493636		S (20cm) =		0.158

802.11B (2436 MHz)

Enter Data in Linear Units					
Gain =	2	Numeric		3	dBi
Power =	398	mW		26	dBm
EIRP =	794.33	mW		794.33	mW
R (cm) =	7.9493636		S (20cm) =		0.158

802.11B (2462 MHz)

Enter Data in Linear Units					
Gain =	2	Numeric		3	dBi
Power =	398	mW		26	dBm
EIRP =	794.33	mW		794.33	mW
R (cm) =	7.9493636		S (20cm) =		0.158

802.11G (2412 MHz)

Enter Data in Linear Units					
Gain =	2	Numeric		3	dBi
Power =	389	mW		25.9	dBm
EIRP =	776.25	mW		776.25	mW
R (cm) =	7.8583680		S (20cm) =		0.154

802.11G (2436 MHz)

Enter Data in Linear Units					
Gain =	2	Numeric		3	dBi
Power =	417	mW		26.2	dBm
EIRP =	831.76	mW		831.76	mW
R (cm) =	8.1345281		S (20cm) =		0.165

802.11G (2462 MHz)

Enter Data in Linear Units					
Gain =	2	Numeric		3	dBi
Power =	407	mW		26.1	dBm
EIRP =	812.83	mW		812.83	mW
R (cm) =	8.0414129		S (20cm) =		0.162