

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

2412 MHz (802.11b)

Enter Data in Linear Units					
Gain =	7.9	Numeric	EUT ant.:	9	dBi
Power =	195.0	mW	EUT power:	22.9	dBm
Frequency =	2412	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	1548.82	mW		1548.82	mW
R (cm) =	11.1018427		S (20cm) =	0.308	

2437 MHz (802.11b)

Enter Data in Linear Units					
Gain =	7.9	Numeric	EUT ant.:	9	dBi
Power =	204.2	mW	EUT power:	23.1	dBm
Frequency =	2437	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	1621.81	mW		1621.81	mW
R (cm) =	11.3604378		S (20cm) =	0.323	

2462 MHz (802.11b)

Enter Data in Linear Units					
Gain =	7.9	Numeric	EUT ant.:	9	dBi
Power =	169.8	mW	EUT power:	22.3	dBm
Frequency =	2462	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	1348.96	mW		1348.96	mW
R (cm) =	10.3608424		S (20cm) =	0.268	

2412 MHz (802.11g)

Enter Data in Linear Units					
Gain =	7.9	Numeric	EUT ant.:	9	dBi
Power =	158.5	mW	EUT power:	22	dBm
Frequency =	2412	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	1258.93	mW		1258.93	mW
R (cm) =	10.0091009		S (20cm) =	0.250	

2437 MHz (802.11g)

Enter Data in Linear Units					
Gain =	7.9	Numeric	EUT ant.:	9	dBi
Power =	173.8	mW	EUT power:	22.4	dBm
Frequency =	2437	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	1380.38	mW		1380.38	mW
R (cm) =	10.4808153		S (20cm) =	0.275	

2462 MHz (802.11g)

Enter Data in Linear Units					
Gain =	7.9	Numeric	EUT ant.:	9	dBi
Power =	131.8	mW	EUT power:	21.2	dBm
Frequency =	2462	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	1047.13	mW		1047.13	mW
R (cm) =	9.1284085		S (20cm) =	0.208	