

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 $(.02^2) = .020$ m

802.11b (2412 MHz)

Enter Data in Linear Units			
Gain =	1.17	Numeric	0.7 dBi
Power =	50	mW	17 dBm
Frequency =	2412	MHz	1.000 mW/cm ²
Cable Loss =	0	dB	
EIRP =	58.88	mW	58.88 mW
R (cm) =	2.1646868	S (20cm) =	0.012

802.11b (2437 MHz)

Enter Data in Linear Units			
Gain =	1.17	Numeric	0.7 dBi
Power =	50	mW	17 dBm
Frequency =	2437	MHz	1.000 mW/cm ²
Cable Loss =	0	dB	
EIRP =	58.88	mW	58.88 mW
R (cm) =	2.1646868	S (20cm) =	0.012

802.11b (2462 MHz)

Enter Data in Linear Units			
Gain =	1.17	Numeric	0.7 dBi
Power =	50	mW	17 dBm
Frequency =	2462	MHz	1.000 mW/cm ²
Cable Loss =	0	dB	
EIRP =	58.88	mW	58.88 mW
R (cm) =	2.1646868	S (20cm) =	0.012

802.11g (2412 MHz)

Enter Data in Linear Units				
Gain =	1.17	Numeric	0.7	dBi
Power =	40	mW	16	dBm
Frequency =	2412	MHz	1.000	mW/cm ²
Cable Loss =	0	dB		
EIRP =	46.77	mW		46.77 mW
R (cm) =	1.9292791		S (20cm) =	0.009

802.11g (2437 MHz)

Enter Data in Linear Units				
Gain =	1.17	Numeric	0.7	dBi
Power =	40	mW	16	dBm
Frequency =	2437	MHz	1.000	mW/cm ²
Cable Loss =	0	dB		
EIRP =	46.77	mW		46.77 mW
R (cm) =	1.9292791		S (20cm) =	0.009

802.11g (2462 MHz)

Enter Data in Linear Units				
Gain =	1.17	Numeric	0.7	dBi
Power =	40	mW	16	dBm
Frequency =	2462	MHz	1.000	mW/cm ²
Cable Loss =	0	dB		
EIRP =	46.77	mW		46.77 mW
R (cm) =	1.9292791		S (20cm) =	0.009