

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 =	1.26	Numeric	1	dBi	
Power =	105	mW	20.2	dBm	
Frequency =	2412	MHz	1.000	mW/cm ²	
Cable Loss =	0	dB			
EIRP =	131.83	mW		131.83	mW
R (cm) =	3.2388816		S (20cm) =	0.026	

802.11b (2437 MHz)

Enter Data in Linear Units					
Gain =	1.26	Numeric	1	dBi	
Power =	412	mW	26.15	dBm	
Frequency =	2437	MHz	1.000	mW/cm ²	
Cable Loss =	0	dB			
EIRP =	518.80	mW		518.80	mW
R (cm) =	6.4253245		S (20cm) =	0.103	

802.11b (2462 MHz)

Enter Data in Linear Units					
Gain =	1.26	Numeric	1	dBi	
Power =	102	mW	20.1	dBm	
Frequency =	2462	MHz	1.000	mW/cm ²	
Cable Loss =	0	dB			
EIRP =	128.82	mW		128.82	mW
R (cm) =	3.2018064		S (20cm) =	0.026	

802.11g (2412 MHz)

Enter Data in Linear Units			
Gain =	1.26	Numeric	1 dBi
Power =	398	mW	26 dBm
Frequency =	2412	MHz	1.000 mW/cm ²
Cable Loss =	0	dB	
EIRP =	501.19	mW	501.19 mW
R (cm) =	6.3153157	S (20cm) =	0.100

802.11g (2437 MHz)

Enter Data in Linear Units			
Gain =	1.26	Numeric	1 dBi
Power =	398	mW	26 dBm
Frequency =	2437	MHz	1.000 mW/cm ²
Cable Loss =	0	dB	
EIRP =	501.19	mW	501.19 mW
R (cm) =	6.3153157	S (20cm) =	0.100

802.11g (2462 MHz)

Enter Data in Linear Units			
Gain =	1.26	Numeric	1 dBi
Power =	398	mW	26 dBm
Frequency =	2462	MHz	1.000 mW/cm ²
Cable Loss =	0	dB	
EIRP =	501.19	mW	501.19 mW
R (cm) =	6.3153157	S (20cm) =	0.100