

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), assumed to be .02 m

2412 MHz (802.11b)

Enter Data in Linear Units					
Gain =	1.3	Numeric	EUT ant.:	1	dBi
Power =	129	mW	EUT power:	21.1	dBm
Frequency =	2412	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	162.18	mW		162.18	mW
R (cm) =	3.5924859		S (20cm) =	0.032	

2437 MHz (802.11b)

Enter Data in Linear Units					
Gain =	1.3	Numeric	EUT ant.:	1	dBi
Power =	501	mW	EUT power:	27	dBm
Frequency =	2437	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	630.96	mW		630.96	mW
R (cm) =	7.0859008		S (20cm) =	0.126	

2462 MHz (802.11b)

Enter Data in Linear Units					
Gain =	1.3	Numeric	EUT ant.:	1	dBi
Power =	110	mW	EUT power:	20.4	dBm
Frequency =	2462	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	138.04	mW		138.04	mW
R (cm) =	3.3143248		S (20cm) =	0.027	

2412 MHz (802.11g)

Enter Data in Linear Units					
Gain =	1.3	Numeric	EUT ant.:	1	dBi
Power =	60	mW	EUT power:	17.8	dBm
Frequency =	2412	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	75.86	mW		75.86	mW
R (cm) =	2.4569429		S (20cm) =	0.015	

2437 MHz (802.11g)

Enter Data in Linear Units					
Gain =	1.3	Numeric	EUT ant.:	1	dBi
Power =	347	mW	EUT power:	25.4	dBm
Frequency =	2437	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	436.52	mW		436.52	mW
R (cm) =	5.8937956		S (20cm) =	0.087	

2462 MHz (802.11g)

Enter Data in Linear Units					
Gain =	1.3	Numeric	EUT ant.:	1	dBi
Power =	63	mW	EUT power:	18	dBm
Frequency =	2462	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	79.43	mW		79.43	mW
R (cm) =	2.5141725		S (20cm) =	0.016	