

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

802.11a (5257 MHz)

Enter Data in Linear Units					
Gain =	5754.40	Numeric	37.6	dB	
Power =	0	mW	-7.6	dBm	
Frequency =	5257	MHz	1.000	mW/cm ²	
Cable Loss =	0	dB			
EIRP =	1000.00	mW		1000.00	mW
R (cm) =	8.9206206			S (20cm) =	0.199

802.11a (5280 MHz)

Enter Data in Linear Units					
Gain =	5754.40	Numeric	37.6	dB	
Power =	0	mW	-8	dBm	
Frequency =	5280	MHz	1.000	mW/cm ²	
Cable Loss =	0	dB			
EIRP =	912.01	mW		912.01	mW
R (cm) =	8.5191265			S (20cm) =	0.181

802.11a (5343 MHz)

Enter Data in Linear Units					
Gain =	5754.40	Numeric	37.6	dB	
Power =	0	mW	-7.8	dBm	
Frequency =	5343	MHz	1.000	mW/cm ²	
Cable Loss =	0	dB			
EIRP =	954.99	mW		954.99	mW
R (cm) =	8.7175625			S (20cm) =	0.190

802.11a (5750 MHz)

Enter Data in Linear Units				
Gain =	5754.40	Numeric	37.6	dBi
Power =	151	mW	21.8	dBm
Frequency =	5750	MHz	1.000	mW/cm ²
Cable Loss =	0	dB		
EIRP =	870963.59	mW		870963.6 mW
R (cm) =	263.2661777	S (20cm) =	173.273	

802.11a (5733 MHz)

Enter Data in Linear Units				
Gain =	5754.40	Numeric	37.6	dBi
Power =	178	mW	22.5	dBm
Frequency =	5733	MHz	1.000	mW/cm ²
Cable Loss =	0	dB		
EIRP =	1023293.0	mW		1023293.0 mW
R (cm) =	285.3612955	S (20cm) =	203.578	

802.11a (5768 MHz)

Enter Data in Linear Units				
Gain =	5754.40	Numeric	37.6	dBi
Power =	151	mW	21.8	dBm
Frequency =	5768	MHz	1.000	mW/cm ²
Cable Loss =	0	dB		
EIRP =	870963.59	mW		870963.6 mW
R (cm) =	263.2661777	S (20cm) =	173.273	