

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

5480 MHz

Enter Data in Linear Units					
Gain =	7.9	Numeric	EUT ant.:	9	dBi
Power =	10	mW	EUT power:	10	dBm
Frequency =	5480	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	

5595 MHz

Enter Data in Linear Units					
Gain =	7.9	Numeric	EUT ant.:	9	dBi
Power =	10	mW	EUT power:	10	dBm
Frequency =	5595	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	

5715 MHz

Enter Data in Linear Units					
Gain =	7.9	Numeric	EUT ant.:	9	dBi
Power =	10	mW	EUT power:	10	dBm
Frequency =	5715	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	

5480 MHz

Enter Data in Linear Units					
Gain =	56.2	Numeric	EUT ant.:	17.5	dBi
Power =	0	mW	EUT power:	-4	dBm
Frequency =	5480	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	22.39	mW		22.39	mW
R (cm) =	1.3347351		S (20cm) =	0.004	

5595 MHz

Enter Data in Linear Units					
Gain =	56.2	Numeric	EUT ant.:	17.5	dBi
Power =	0	mW	EUT power:	-4	dBm
Frequency =	5595	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	22.39	mW		22.39	mW
R (cm) =	1.3347351		S (20cm) =	0.004	

5715 MHz

Enter Data in Linear Units					
Gain =	56.2	Numeric	EUT ant.:	17.5	dBi
Power =	0	mW	EUT power:	-4	dBm
Frequency =	5715	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	22.39	mW		22.39	mW
R (cm) =	1.3347351		S (20cm) =	0.004	

5745 MHz (802.11a)

Enter Data in Linear Units					
Gain =	6.3	Numeric	EUT ant.:	8	dBi
Power =	81	mW	EUT power:	19.08	dBm
Frequency =	5745	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	510.50	mW		510.50	mW
R (cm) =	6.3737506		S (20cm) =	0.102	

5785 MHz (802.11a)

Enter Data in Linear Units					
Gain =	6.3	Numeric	EUT ant.:	8	dBi
Power =	84	mW	EUT power:	19.25	dBm
Frequency =	5785	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	530.88	mW		530.88	mW
R (cm) =	6.4997263		S (20cm) =	0.106	

5825 MHz (802.11a)

Enter Data in Linear Units					
Gain =	6.3	Numeric	EUT ant.:	8	dBi
Power =	67	mW	EUT power:	18.28	dBm
Frequency =	5825	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	424.62	mW		424.62	mW
R (cm) =	5.8129297		S (20cm) =	0.084	