

**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<sup>2</sup>) = .020 m

**150 MHz (9.15 dBi antenna)**

Enter Data in Linear Units					
Gain =	8.2	Numeric	EUT ant.:	9.15	dBi
Power =	5754	mW	EUT power:	37.6	dBm
Frequency =	150.3	MHz	MPE limit:	0.200	mW/cm <sup>2</sup>
Cable Loss =	0	dB			
EIRP =	47315.13	mW		47315.13	mW
R (cm) =	137.2082010		S (1.4m) =	0.192	mW/cm <sup>2</sup>

**162 MHz (9.15 dBi antenna)**

Enter Data in Linear Units					
Gain =	8.2	Numeric	EUT ant.:	9.15	dBi
Power =	5623	mW	EUT power:	37.5	dBm
Frequency =	162	MHz	MPE limit:	0.200	mW/cm <sup>2</sup>
Cable Loss =	0	dB			
EIRP =	46238.10	mW		46238.10	mW
R (cm) =	135.6375917		S (1.4m) =	0.188	mW/cm <sup>2</sup>

**174 MHz (9.15 dBi antenna)**

Enter Data in Linear Units					
Gain =	8.2	Numeric	EUT ant.:	9.15	dBi
Power =	5623	mW	EUT power:	37.5	dBm
Frequency =	173.9	MHz	MPE limit:	0.200	mW/cm <sup>2</sup>
Cable Loss =	0	dB			
EIRP =	46238.10	mW		46238.10	mW
R (cm) =	135.6375917		S (140cm) =	0.188	mW/cm <sup>2</sup>