

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

4947.5 MHz

Enter Data in Linear Units					
Gain =	8912.5	Numeric	EUT ant.:	39.5	dBi
Power =	55	mW	EUT power:	17.4	dBm
Frequency =	-	MHz	MPE limit:	5	mW/cm ²
Cable Loss =	0	dB			
EIRP =	489778.82	mW		489778.8	mW
R (cm) =	88.2897050		S (20cm) =	97.438	

4947.5 MHz

Enter Data in Linear Units					
Gain =	4073.8	Numeric	EUT ant.:	36.1	dBi
Power =	148	mW	EUT power:	21.7	dBm
Frequency =	-	MHz	MPE limit:	5	mW/cm ²
Cable Loss =	0	dB			
EIRP =	602559.59	mW		602559.6	mW
R (cm) =	97.9287173		S (20cm) =	119.875	

4947.5 MHz

Enter Data in Linear Units					
Gain =	2041.7	Numeric	EUT ant.:	33.1	dBi
Power =	204	mW	EUT power:	23.1	dBm
Frequency =	-	MHz	MPE limit:	5	mW/cm ²
Cable Loss =	0	dB			
EIRP =	416869.38	mW		416869.4	mW
R (cm) =	81.4535592		S (20cm) =	82.934	