

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

| Enter Data in Linear Units | | | |
|----------------------------|------------|------------|--------------------------|
| Gain = | 10 | Numeric | 10 dBi |
| Power = | 391 | mW | 26 dBm |
| Frequency = | 902 | MHz | 0.601 mW/cm ² |
| Cable Loss = | 0.08 | dB | |
| EIRP = | 3908.41 | mW | 3908.41 mW |
| R (cm) = | 22.7424594 | S (20cm) = | 0.778 |

| Enter Data in Linear Units | | | |
|----------------------------|------------|------------|--------------------------|
| Gain = | 10 | Numeric | 10 dBi |
| Power = | 391 | mW | 26 dBm |
| Frequency = | 915 | MHz | 0.610 mW/cm ² |
| Cable Loss = | 0.08 | dB | |
| EIRP = | 3908.41 | mW | 3908.41 mW |
| R (cm) = | 22.5803230 | S (20cm) = | 0.778 |

| Enter Data in Linear Units | | | |
|----------------------------|------------|------------|--------------------------|
| Gain = | 10 | Numeric | 10 dBi |
| Power = | 391 | mW | 26 dBm |
| Frequency = | 928 | MHz | 0.619 mW/cm ² |
| Cable Loss = | 0.08 | dB | |
| EIRP = | 3908.41 | mW | 3908.41 mW |
| R (cm) = | 22.4216056 | S (20cm) = | 0.778 |

| Enter Data in Linear Units | | | | |
|----------------------------|------------|---------|------------|--------------------|
| Gain = | 5 | Numeric | 7 | dBi |
| Power = | 398 | mW | 26 | dBm |
| Frequency = | 902 | MHz | 0.601 | mW/cm ² |
| Cable Loss = | 0 | dB | | |
| EIRP = | 1995.26 | mW | | 1995.26 mW |
| R (cm) = | 16.2494037 | | S (20cm) = | 0.397 |

| Enter Data in Linear Units | | | | |
|----------------------------|------------|---------|------------|--------------------|
| Gain = | 5 | Numeric | 7 | dBi |
| Power = | 794 | mW | 29 | dBm |
| Frequency = | 915 | MHz | 0.610 | mW/cm ² |
| Cable Loss = | 0 | dB | | |
| EIRP = | 3981.07 | mW | | 3981.07 mW |
| R (cm) = | 22.7892562 | | S (20cm) = | 0.792 |

| Enter Data in Linear Units | | | | |
|----------------------------|------------|---------|------------|--------------------|
| Gain = | 5 | Numeric | 7 | dBi |
| Power = | 794 | mW | 29 | dBm |
| Frequency = | 928 | MHz | 0.619 | mW/cm ² |
| Cable Loss = | 0 | dB | | |
| EIRP = | 3981.07 | mW | | 3981.07 mW |
| R (cm) = | 22.6290702 | | S (20cm) = | 0.792 |