

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

2412 MHz (802.11b)

| Enter Data in Linear Units | | | | | |
|----------------------------|-----------|---------|------------|--------|--------------------|
| Gain = | 1.3 | Numeric | EUT ant.: | 1 | dBi |
| Power = | 145 | mW | EUT power: | 21.6 | dBm |
| Frequency = | 2412 | MHz | MPE limit: | 1 | mW/cm ² |
| Cable Loss = | 0 | dB | | | |
| EIRP = | 181.97 | mW | | 181.97 | mW |
| R (cm) = | 3.8053540 | | S (20cm) = | 0.036 | |

2437 MHz (802.11b)

| Enter Data in Linear Units | | | | | |
|----------------------------|-----------|---------|------------|--------|--------------------|
| Gain = | 1.3 | Numeric | EUT ant.: | 1 | dBi |
| Power = | 501 | mW | EUT power: | 27 | dBm |
| Frequency = | 915 | MHz | MPE limit: | 1 | mW/cm ² |
| Cable Loss = | 0 | dB | | | |
| EIRP = | 630.96 | mW | | 630.96 | mW |
| R (cm) = | 7.0859008 | | S (20cm) = | 0.126 | |

2462 MHz (802.11b)

| Enter Data in Linear Units | | | | | |
|----------------------------|-----------|---------|------------|--------|--------------------|
| Gain = | 1.3 | Numeric | EUT ant.: | 1 | dBi |
| Power = | 145 | mW | EUT power: | 21.6 | dBm |
| Frequency = | 927 | MHz | MPE limit: | 1 | mW/cm ² |
| Cable Loss = | 0 | dB | | | |
| EIRP = | 181.97 | mW | | 181.97 | mW |
| R (cm) = | 3.8053540 | | S (20cm) = | 0.036 | |

2412 MHz (802.11g)

| Enter Data in Linear Units | | | | | |
|----------------------------|-----------|---------|------------|--------|--------------------|
| Gain = | 1.3 | Numeric | EUT ant.: | 1 | dBi |
| Power = | 200 | mW | EUT power: | 23 | dBm |
| Frequency = | 902 | MHz | MPE limit: | 1 | mW/cm ² |
| Cable Loss = | 0 | dB | | | |
| EIRP = | 251.19 | mW | | 251.19 | mW |
| R (cm) = | 4.4709012 | | S (20cm) = | 0.050 | |

2437 MHz (802.11g)

| Enter Data in Linear Units | | | | | |
|----------------------------|------------|---------|------------|---------|--------------------|
| Gain = | 1.3 | Numeric | EUT ant.: | 1 | dBi |
| Power = | 1000 | mW | EUT power: | 30 | dBm |
| Frequency = | 915 | MHz | MPE limit: | 1 | mW/cm ² |
| Cable Loss = | 0 | dB | | | |
| EIRP = | 1258.93 | mW | | 1258.93 | mW |
| R (cm) = | 10.0091009 | | S (20cm) = | 0.250 | |

2462 MHz (802.11g)

| Enter Data in Linear Units | | | | | |
|----------------------------|-----------|---------|------------|--------|--------------------|
| Gain = | 1.3 | Numeric | EUT ant.: | 1 | dBi |
| Power = | 200 | mW | EUT power: | 23 | dBm |
| Frequency = | 927 | MHz | MPE limit: | 1 | mW/cm ² |
| Cable Loss = | 0 | dB | | | |
| EIRP = | 251.19 | mW | | 251.19 | mW |
| R (cm) = | 4.4709012 | | S (20cm) = | 0.050 | |