§ 1.1310 Radiofrequency radiation exposure limits

Conducted Power (dBm): 20.9 123 milliWatts

Maximum Antenna Gain (dBi): 5
Minimum TX Cable Loss (dB): 0
Minimum TX Jumpers and Adapter Loss(dB):

EIRP (dBm): 25.9 or 388 milliWatts

At frequency (MHz): 836

General MPE Limit (mW/cm^2): 0.557
Occupational MPE Limit (mW/cm^2): 2.787

Given the following equation

Equation 1: $P_d = \frac{P_t G_t}{4\pi r^2}$

Solve for r: Equation 2: $r = \sqrt{\frac{P_t G_t}{4\pi P_d}}$

Using Equation 1, the power density at 20 cm is:

0.08 mW/cm^2

Margin to General MPE Limit -8.58 dB negative nu

General Results:

Using Equation 2, the MPE limit is met at:

7.4 cm or 0.07

Occupational Results:

Using Equation 2, the MPE limit is met at:

3.3 cm or 0.03

umber is be

meters

meters

§ 1.1310 Radiofrequency radiation exposure limits

Conducted Power (dBm): 23.0 200 milliWatts

Maximum Antenna Gain (dBi): Minimum TX Cable Loss (dB): 0 Minimum TX Jumpers and Adapter Loss(dB):

EIRP (dBm): 634 milliWatts 28.0 or

At frequency (MHz): 1880

General MPE Limit (mW/cm^2): 1.000 Occupational MPE Limit (mW/cm^2): 5.000

Given the following equation

 $P_d = \frac{P_t G_t}{4\pi r^2}$ Equation 1:

Solve for r: Equation 2:

Using Equation 1, the power density at 20 cm is: 0.13 mW/cm^2

Margin to General MPE Limit -8.99 dB negative nu

General Results:

Using Equation 2, the MPE limit is met at: 7.1 cm or 0.07

Occupational Results:

Using Equation 2, the MPE limit is met at: 3.2 cm 0.03 or

umber is be

meters

meters