



MPE Calculation for FCC Uncontrolled Environment

Formula from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Source Based Time Averaged Duty Cycle is 100% in calculation below

Maximum peak output power at antenna input terminal: 25.28 (dBm)

Maximum peak output power at antenna input terminal: 0.337 (W)

Maximum antenna gain: 3.00 (dBi)

Maximum antenna gain: 1.995 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 5800 (MHz)

Time Averaged Duty Cycle 100 %

MPE limit for uncontrolled exposure at prediction frequency: 10.00 (W/m^2)

Power density at prediction frequency: 0.1339 (mW/cm^2)

Power density at prediction frequency: 1.339 (W/m^2)

Maximum allowable antenna gain: 11.73 (dBi)

Margin of Compliance: 8.73 (dB)