



MPE Calculation for FCC Controlled Environment

Equation 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: 54.10 (dBm)

Maximum peak output power at antenna input terminal: 257.040 (W)

Antenna gain(typical): 0.00 (dBi)

Maximum antenna gain: 1.000 (numeric)

Prediction distance: 100 (cm)

Prediction frequency: 5800 (MHz)

Time Averaged Duty Cycle 100 %

MPE limit for controlled exposure at prediction frequency: 50.00 (W/m^2)

Power density at prediction frequency: 2.0455 (mW/cm^2)

Power density at prediction frequency: 20.455 (W/m^2)

Maximum allowable antenna gain: 3.9 (dBi)

Margin of Compliance: 3.9 (dB)