



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: **19.40** (dBm)

Maximum peak output power at antenna input terminal: **0.087** (W)

Maximum antenna gain: **2.80** (dBi)

Maximum antenna gain: **1.905** (numeric)

Prediction distance: **20** (cm)

Prediction frequency: **1925** (MHz)

Time Averaged Duty Cycle **100** %

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

Power density at prediction frequency: **0.0330** (mW/cm^2)

Power density at prediction frequency: **0.330** (W/m^2)

Maximum allowable antenna gain: **17.61** (dBi)

Margin of Compliance: **14.81** (dB)