

Prediction of MPE limit at a given distance

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

Maximum peak output power at antenna input terminal: 30.00 (dBm)
Maximum peak output power at antenna input terminal: 1000 (mW)
Antenna gain(typical): 6 (dBi)
Maximum antenna gain: 3.981071706 (numeric)
Prediction distance: 23 (cm)
Prediction frequency: 900 (MHz)
MPE limit for uncontrolled exposure at prediction frequency: 0.6 (mW/cm²)
Power density at prediction frequency: **0.598873** (mW/cm²)

Therefore device complies with FCC RF radiation exposure limits for general population in mobile exposure category.