## 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 device output terminal: \_\_\_\_\_\_16.84 (dBm)

Cable and Jumper loss 0.0 (dB)

Maximum peak output power at antenna input terminal: 16.84 (dBm)

Maximum peak output power at antenna input terminal: 48.3058802 (mW)

Single Antenna gain(typical): 2 (dBi)

Number of Antennae

Total Antenna gain(typical): 2 (dBi)

Maximum antenna gain: 1.584893192 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 915 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.61 (mW/cm^2)

Power density at prediction frequency: 0.015231 (mW/cm^2)

0.152311 (W/m^2)

Tx On time: 100.000000
Tx period time: 100.000000

Average Factor: 100.000000

Average Power density at prediction frequency: 0.152311 (W/m^2)

Maximum allowable antenna gain: 18.0259969 (dBi)

Margin of Compliance: 16.0259969 dB