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: 27.00 (dBm)
Maximum peak output power at antenna input terminal: 501.1872336 (mW)
Antenna gain(typical):   3 (dBi)
Maximum antenna gain: 1.995262315 (numeric)
Prediction distance: 25 (cm)
Prediction frequency: 806 (MHz)
MPE limit for uncontrolled exposure at prediction frequency: 0.537333333 (mW/cm^2)

Power density at prediction frequency: 0.127324 (mW/cm^2)

Maximum allowable antenna gain: 9.253336641 (dBi)

Margin of Compliance: 6.253336641