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 radi
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	24.50	(dBm)
Maximum peak output power at antenna input terminal:	281.8382931	(mW)
Antenna gain(typical):	5	(dBi)
Maximum antenna gain:	3.16227766	(numeric)
Time Averaging:	100	(%)
Prediction distance:	20	(cm)
Prediction frequency:	2450	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)

Power density at prediction frequency:		0.177309	(mW/cm^2)	
Margin of compliance:		-7.5	(dB)	
	This equates to	1.773087404	W/m^2	PASS
For information	This equates to	25.85447643	V/m	