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:	13.53	(dBm)
Cable and Jumper loss	0.0	(dB)
Maximum peak output power at antenna input terminal:	13.53	(dBm)
Maximum peak output power at antenna input terminal:	22.54239212	(mW)
Single Antenna gain(typical):	3	(dBi)
Number of Antennae	1	
Total Antenna gain(typical):	3	(dBi)
Maximum antenna gain:	1.995262315	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	902.4	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.6016	(mW/cm^2)

Power density at prediction frequency:	0.008948	(mW/cm^2)
	0.089481	(W/m^2)
Tx On time:	100.000000	
Tx period time:	100.000000	
Average Factor:	100.000000	
Average Power density at prediction frequency:	0.089481	(W/m^2)
Maximum allowable antenna gain:	21.27577683	(dBi)

Margin of Compliance: 18.27577683 dB