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:	25.25	(dBm)	
Cable and Jumper loss	0.0	(dB)	
Maximum peak output power at antenna input terminal:	25.25	(dBm)	
Maximum peak output power at antenna input terminal:	334.9654392	(mW)	
Single Antenna gain(typical):	7.7	(dBi)	See note below
Number of Antennae	2		
Total Antenna gain(typical):	10.71029996	(dBi)	
Maximum antenna gain:	11.77687311	(numeric)	
Prediction distance:	20	(cm)	
Prediction frequency:	2437	(MHz)	
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)	
Power density at prediction frequency:	0.784802	(mW/cm^2)	
	7.848021	(W/m^2)	
Tx On time:	1.000000		
Tx period time:	1.000000		
Average Factor:	100.000000		
Average Power density at prediction frequency:	7.848021	(W/m^2)	
Maximum allowable antenna gain:	11.76269855	(dBi)	
Margin of Compliance:	1.052398597	dB	

Note: Antenna gain: 7.7 dBi + 10 × log10 (2) dB = 10.7 dBi
 (MIMO 3×3 combined, one uncorrelated and two cross polarized correlated antennas)