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

Maximum peak output power at antenna input terminal:	25.28	(dBm)
Maximum peak output power at antenna input terminal:	337.3	(mW)
Antenna gain(typical):	7.77	(dBi)
Maximum antenna gain:	5.984	(numeric)
Prediction distance:	20	(cm)
Sourse Based Time Average Duty Cycle:	100	(%)
Prediction frequency:	2437	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1.000	(mW/cm^2)
Power density at prediction frequency:	0.40154	(mW/cm^2)
Power density at prediction frequency:	4.0154	(W/m^2)
Margin of Compliance:	3.96	(dB)

Sum power density of 2.4 GHz and 5.8 GHz : 0.40154+0.26530 = 0.66684 < 1 mW/cm^2