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:	31.70	(dBm)
Maximum peak output power at antenna input terminal:	1479.1	(mW)
Antenna gain(typical):	2.15	(dBi)
Maximum antenna gain:	1.641	(numeric)
Prediction distance:	20	(cm)
Sourse Based Time Average Duty Cycle:	100	(%)
Prediction frequency:	848.8	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.566	(mW/cm^2)
Power density at prediction frequency:	0.48276	(mW/cm^2)
Power density at prediction frequency:	4.8276	(W/m^2)
Margin of Compliance:	0.69	(dB)

Simultaneously transmission with BT: 0.48276 + 0.00099 = 0.48375 mW/cm2 < 0.566 mw/cm2