Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$
 Equipment MW-145BT
Manufacturer BROTHER INDUSTRIES, LTD

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 antenna input terminal:	-4.30 (dBm)
Maximum peak output power at antenna input terminal:	0.371535229 (mW)
Antenna gain(typical):	<u>1</u> (dBi)
Maximum antenna gain:	1.25892541 (numeric)
Prediction distance:	<u>20</u> (cm)
Prediction frequency:	2441 (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1.0 (mW/cm^2)
Power density at prediction frequency:	0.0000931 (mW/cm^2)
Maximum allowable antenna gain:	41.3126986 (dBi)
Margin of Compliance:	40.3126986