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

Maximum peak output power at antenna input terminal:	15.50	(dBm)
Maximum peak output power at antenna input terminal:	35.48133892	(mW)
Antenna gain(typical):	2.1	(dBi)
Maximum antenna gain:	1.621810097	(numeric)
Time Averaging:	100	(%)
Prediction distance:	20	(cm)
Prediction frequency:	2450	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	

Power density at prediction frequency:		0.011448	(mW/cm^2)	
	Margin of compliance:	-19.4	(dB)	
	This equates to	0.114480138	W/m^2	pass
For information	This equates to	6.569551892	V/m	
	RSS-102 Issue 5 limit	2.712860097	W/m^2	Pass

ysdale

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