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

 ${\sf G}$ = 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

	MODEL - CL0-1		
	<u>WIFI</u>		
Maximum peak output power at device output terminal:	16.29	dBm	
Cable and Jumper loss:	0	dB	
Maximum peak output power at antenna input terminal:	16.29	dBm	
Power in mW	0.042559841	W	
Single Antenna gain (typical):	2	dBi	Integral/included
Number of Antennae:	<u>1</u>		
Total Antenna gain (typical):	<u>2</u>	dBi	
Antenna Gain (numeric)	1.584893192	(numeric)	Integral/included
Prediction distance:	0.2	m	
Prediction frequency:	2437	MHz	
MPE limit for uncontrolled exposure at prediction frequency:	10	W/m^ ²	
Power density at prediction frequency:	0.134193087	W/m^2	
Tx On time:	1	ms	
Tx period time:	1	ms	
Average Factor:	100	%	
Average Power density at prediction frequency:	0.134193087	W/m^ ²	