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

Tx1: 2AJI5-CMHM10

Maximum peak output power at device output terminal:	5.00	dBm
Cable and Jumper loss:	0.0	dB
Maximum peak output power at antenna input terminal:	5.00	dBm
	3.16227766	mW
Single Antenna gain (typical):	0	dBi
Number of Antennae:	1	
Total Antenna gain (typical):	0	dBi
	1	(numeric)
Prediction distance:	20	cm
Prediction frequency:	2440	MHz
MPE limit for uncontrolled exposure at prediction frequency:	1	mW/cm^2
Power density at prediction frequency:	**0.000629**	**mW/cm^2**
	0.006291	W/m^2
Tx On time:	25.000000	ms
Tx period time:	100.000000	ms
Average Factor:	25.000000	%
Average Power density at prediction frequency:	0.001573	W/m^2
Percentage to limit:	0.015727879	%

Tx2: L2V-STX3

Maximum peak output power at device output terminal:	21.43	dBm
Cable and Jumper loss:	0.0	dB
Maximum peak output power at antenna input terminal:	21.43	dBm
	138.9952631	mW
Single Antenna gain (typical):	5.1	dBi
Number of Antennae:	1	
Total Antenna gain (typical):	5.1	dBi
	3.235936569	(numeric)
Prediction distance:	20	cm
Prediction frequency:	1611.88	MHz
MPE limit for uncontrolled exposure at prediction frequency:	1	mW/cm^2
Power density at prediction frequency:	**0.089481**	**mW/cm^2**
	0.894809	W/m^2
Tx On time:	10.000000	ms
Tx period time:	100.000000	ms
Average Factor:	10.000000	%
Average Power density at prediction frequency:	0.089481	W/m^2
Percentage to limit:	0.89480859	%

Total Percentage to limit:	0.910536469	%

(PSD1/Limit 1) + (PSD 2/limit 2):	0.009105365	<1