Nemko

ONE WORLD ○ OUR APPROVAL

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

Maximum peak output power at device output terminal:	41.10	dBm	MIMO operation
Cable and Jumper loss:	0.0	dB	
Maximum peak output power at antenna input terminal:	41.10	dBm	
	12882.49552	mW	
Single Antenna gain (typical):	21.04	dBi	(max for complianc
Number of Un-correlated Antennae:	1		
Total Antenna gain (typical):	21.04	dBi	
	127.04	(numeric)	
Prediction distance:	700	cm	
Prediction frequency:	881.5	MHz	
MPE limit for uncontrolled exposure at prediction frequency:	0.587666667	mW/cm^2	

Power density at prediction frequency:	**0.265792**	**mW/cm^2**
	2.657920	W/m^2
Tx On time:	1.000000	ms
Tx period time:	1.000000	ms
Average Factor:	100.000000	%
Average Power density at prediction frequency:	2.657920	W/m^2
Maximum allowable antenna gain:	24.48537002	dBi
Margin of Compliance:	**3.44589208**	**dB**