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

	Clearlink D-WiFi	Clearlink D and PB and D-WiFi	
Maximum peak output power at device output terminal:	20.37	-1.27	dBm
Cable and Jumper loss:	0	0	dB
Maximum peak output power at antenna input terminal:	20.37	-1.27	dBm
	108.8930093	0.746448758	mW
Single Antenna gain (typical):	0	0	dBi
Number of Antennae:	1	1	
Total Antenna gain (typical):	0	0	dBi
	1	1	(numeric)
Prediction distance:	20	20	cm
Prediction frequency:	2437	2463	MHz
MPE limit for uncontrolled exposure at prediction frequency:	1	1	mW/cm^2
Power density at prediction frequency:	0.021663576	0.000148501	mW/cm^2
	0.216635759	0.001485013	W/m^2
Tx On time:	1	1	ms
Tx period time:	1	1	ms
Average Factor:	100	100	%
Average Power density at prediction frequency:	0.216635759	0.001485013	W/m^2

Margin of Compliance: