Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

Equipment	Wireless Broardband Router
Manufacturer	Buffalo Inc.

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 antenna input terminal:	24.10	(dBm)
Maximum peak output power at antenna input terminal:	257.0395783	(mW)
Antenna gain(typical):	4	(dBi)
Maximum antenna gain:	2.511886432	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2437	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)

Standard antenna Gain For US Model

Power density at prediction frequency:	0.128449	(mW/cm^2)
Maximum allowable antenna gain:	12.91269855	(dBi)
Margin of Compliance:	8.912698554	

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Equipment: Wireless Broardband Router
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where: S = power density
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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 antenna input terminal:	27.21	(dBm)
Maximum peak output power at antenna input terminal:	526.0172664	(mW)
Antenna gain(typical):	6	(dBi)
Maximum antenna gain:	3.981071706	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2437	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)

Other Optional Antennas as tested in the test report

Power density at prediction frequency:	0.416610	(mW/cm^2)
Maximum allowable antenna gain:	9.802698554	(dBi)
Margin of Compliance:	3.802698554	