**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_WAP001
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

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|---|---:|---|
| Maximum peak output power at antenna input terminal: | 21.16 | (dBm) |
| Maximum peak output power at antenna input terminal: | 1.31E+02 | (mW) |
| Antenna gain(typical): | 2.9 | (dBi) |
| Maximum antenna gain: | 1.9498446 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 2412 | (MHz) |
| MPE limit for uncontrolled exposure at prediction frequency: | 1.00245043 | (mW/cm^2) |
| Power density at prediction frequency: | 5.067E-02 | (mW/cm^2) |
| Maximum allowable antenna gain: | 15.86332762 | (dBi) |
| Margin of Compliance: | 12.96332762 | |