



L C I E

Maximum Permissive Emission

The maximum permissible exposure is defined in 47 CFR 1.1310 with 1mW/cm². The transmitter is using indoor antennas that operate at 20 cm or more from nearby persons.

The maximum permitted level is calculated using the general equation:

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

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

For 1900MHz:

Maximum peak output power at the antenna terminal: 27,80 (dBm)

Maximum peak output power at the antenna terminal: 602,5595861 (mW)

Antenna gain(typical): 4,2 (dBi)

Maximum antenna gain: 2,630267992 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 1900 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm²)

Power density at prediction frequency: **0,315304** (mW/cm²)

For 850MHz:

Maximum peak output power at the antenna terminal: 24,70 (dBm)

Maximum peak output power at the antenna terminal: 295,1209227 (mW)

Antenna gain(typical): -3,21 (dBi)

Maximum antenna gain: 0,477529274 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 850 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm²)

Power density at prediction frequency: **0,028037** (mW/cm²)

As demonstrated in this document, the power density at 20 cm is 0.3153mW/cm² for 1900MHz and 0.0280mW/cm² for 850MHz therefore the limit is not exceeded.

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This attestation is based on the conformity of the evaluated sample, it does not imply the conformity of the whole production of the above product