Product name: A0101
Manufacturer: IJINUS
FCC Id: SE6A001

**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

**Transmitter n°1**

| | | |
|---|---|---|
| Maximum peak output power at the antenna terminal: | 12.00 | (dBm) |
| Maximum peak output power at the antenna terminal: | 15.84893192 | (mW) |
| Antenna gain(typical): | 0 | (dBi) |
| Maximum antenna gain: | 1 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 915 | (MHz) |
| MPE limit for uncontrolled exposure at prediction frequency: | 0.61 | (mW/cm^2) |
| Power density at prediction frequency: | 0.003153 | (mW/cm^2) |
| Maximum allowable antenna gain: | 22.8659969 | (dBi) |

**Transmitter n°2**

| | | |
|---|---|---|
| Maximum peak output power at the antenna terminal: | 32.31 | (dBm) |
| Maximum peak output power at the antenna terminal: | 1702.158508 | (mW) |
| Antenna gain(typical): | 1 | (dBi) |
| Maximum antenna gain: | 1.258925412 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 850 | (MHz) |
| MPE limit for uncontrolled exposure at prediction frequency: | 0.55 | (mW/cm^2) |
| Power density at prediction frequency: | 0.426315 | (mW/cm^2) |
| Maximum allowable antenna gain: | 2.106325448 | (dBi) |

**Transmitter n°3**

| | | |
|---|---|---|
| Maximum peak output power at the antenna terminal: | 29.35 | (dBm) |
| Maximum peak output power at the antenna terminal: | 860.9937522 | (mW) |
| Antenna gain(typical): | 1 | (dBi) |
| Maximum antenna gain: | 1.258925412 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 1900 | (MHz) |
| MPE limit for uncontrolled exposure at prediction frequency: | 1 | (mW/cm^2) |
| Power density at prediction frequency: | 0.215640 | (mW/cm^2) |
| Maximum allowable antenna gain: | 7.662698554 | (dBi) |

**Collocation evaluation for the following cases:**

Pd(n) = Power density of $n^{th}$ transmitter at 20cm
LPd(n)= Power density limit for the $n^{th}$ transmitter

**Transmitter n°1 + Transmitter n°2 :**

[Pd(1)/LPd(1)] + [Pd(2)/LPd(2)] = 0.78029
<1

**Transmitter n°1 + Transmitter n°3 :**

[Pd(1)/LPd(1)] + [Pd(3)/LPd(3)] = 0.22081
<1

Note: Transmitter n°2 & transmitter n°3 can't transmit simultaneously