

Product name: Orchestra plus link
Manufacturer: SORIN
FCC Id: YSGKA351

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 : 2421,1 MHz to 2458,9 MHz

Maximum peak output power at the antenna terminal: 18,35 (dBm)
Maximum peak output power at the antenna terminal: 68,39116473 (mW)
Antenna gain(typical): -5,5 (dBi)
Maximum antenna gain: 0,281838293 (numeric)
Prediction distance: 20 (cm)
Prediction frequency: 2400 (MHz)
MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm²)

Power density at prediction frequency: **0,003835** (mW/cm²)

Maximum allowable antenna gain: **18,66269855** (dBi)

Transmitter n°2: 402 to 405 MHz

Maximum peak output power at the antenna terminal: -13,60 (dBm)
Maximum peak output power at the antenna terminal: 0,043651583 (mW)
Antenna gain(typical): -4,9 (dBi)
Maximum antenna gain: 0,323593657 (numeric)
Prediction distance: 20 (cm)
Prediction frequency: 403 (MHz)
MPE limit for uncontrolled exposure at prediction frequency: 1 (mW/cm²)

Power density at prediction frequency: **0,000003** (mW/cm²)

Maximum allowable antenna gain: **50,61269855** (dBi)

Transmitter n°1 + Transmitter n°2:

$$[Pd(1)/LPd(1)] + [Pd(2)/LPd(2)] = 0,00384 < 1$$