



MDE_PARRO_1418_FCC_MPE

FCC ID RKXJUMPGSUMO
IC ID: 5119A-JUMPGSUMO

Maximum Permissible Exposure

as specified in Table 1B of 47 CFR 1.1310 – Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure

Frequency range (MHz)	Power density (mW/cm ²)
300 – 1,500	f/1500
1,500 – 100,000	1.0

Antenna Gain:

2.44 GHz: 1.34dBi

5.5 GHz: 2.67dBi

Calculations

The output power at antenna input terminal:

2437 MHz: 26.1 dBm

5240 MHz: 16.6 dBm

Prediction distance **R**: 20 cm

Prediction frequency 1(PF 1): 2437 MHz

Prediction frequency 2(PF 2): 5240 MHz

MPE limit **S**: 1 mW/cm²

Equation OET bulletin 65, page 18, edition 97-01: $S = P \cdot G / (4\pi R^2)$

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 centre of radiation of the antenna (20cm)

Maximum Power density	Limit	Verdict
PF 1: 0.1103 mW/cm ²	1.0 mW/cm ²	Pass
PF 2: 0.0168 mW/cm ²	1.0 mW/cm ²	Pass

Note. The calculation was made under the consideration of the duty cycle effect.

Yours sincerely

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