



Total Quality. Assured.

Maximum Permissible Exposure (MPE) Evaluation

Applicant : JVCKENWOOD Corporation
Equipment : UHF DIGITAL TRANSCEIVER
Model No. : NX-5800H-F2
FCC ID : K44499301

MPE Calculations

FCC Part 1.1310

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

$$R = \sqrt{\frac{PG}{4\pi S}}$$

Where:

S=Power density (in appropriate units, e.g. mW/cm²)

P=Power input to antenna (in appropriate units, e.g., mW)

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 (appropriate units, e.g., cm)

Tx Frequency= 406.1 to 470 (MHz) : FCC

Maximum peak power= 50.00 (dBm) (=100W)
Antenna gain= 2.15 (dBi)

S= 0.27 (mW/cm²) (Uncontrolled Environment)
P= 50000.00 (mW) (=Maximum peak power x Dutycycle50%)
G= 1.64 (numeric)
R= 155.28 (cm)

Calculated minimum separation distance from antenna :

155.28 (cm)