Maximum Permissible Exposure (MPE) Evaluation

Applicant   : JVC KENWOOD Corporation
Equipment   : 800MHz DIGITAL BASE-REPEATER
Model No.   : NXR-5900-K
FCC ID   : K44474700

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/cm^2)
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=   851 to 869   (MHz)   : FCC

Maximum peak power=   25.56   (dBm)   (=0.36W)
Antenna gain=   2.15   (dBi)

S=   2.84   (mW/cm^2)
P=   360.00   (mW)   (=Maximum peak power x Dutycycle100%)
G=   1.64   (numeric)
R=   4.07   (cm)

P = Value calculated according to CFR Part 90.205(s)

Calculated minimum separation distance from antenna :   4.07 (cm)