

## **Maximum Permissible Exposure (MPE) Evaluation**

Applicant : JVCKENWOOD Corporation

Equipment : UHF REPEATER Model No. : NXR-1800-E2 IC CN and UPN : 282F-513201

## **MPE Calculations**

RSS-102 Issue 5

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

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

Where:

S=Power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

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)

Calculated minimum separation distance from antenna: 144.79 (cm)