



## Maximum Permissible Exposure (MPE) Evaluation

Applicant : JVC KENWOOD Corporation  
 Equipment : 900MHz DIGITAL TRANSCEIVER  
 Model No. : NX-901-K  
 FCC ID : K44409301  
 IC CN and UPN : 282F-409301

### MPE Calculations

According to the OET Bulletin 65 (Edition 97-01)

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

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

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)

Tx Frequency=	896 to 901 (MHz)	: FCC/IC
	935 to 940 (MHz)	: FCC/IC
Maximum peak power=	41.76 (dBm) (=15W)	
Antenna gain=	2.15 (dBi)	

S= 0.60 (mW/cm<sup>2</sup>)

P= 9000.00 (mW) (=Maximum peak power x 120% x Duty cycle 50%)

G= 1.64 (numeric)

R= 44.35 (cm)

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

Calculated minimum separation distance from antenna :

44.35 (cm)