

Maximum Permissible Exposure (MPE) Evaluation

Applicant : JVC KENWOOD Corporation
Equipment : 800MHz DIGITAL TRANSCEIVER
Model No. : NV 2020C K

Model No. : NX-3920G-K FCC ID : K44502600

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=	806 to 824	, 851 to 869	(MHz) : FCC	
Maximum peak power= Antenna gain=	41.90 2.15	(dBm) (=15 (dBi)	5.5W)	
S= P= G= R=	0.54 7750.00 1.64 43.39	(mW/cm ²) (mW) (numeric) (cm)	(Uncontrolled Environment) (=Maximum peak power x Dutycycle	∍50%)

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

Calculated minimum separation distance from antenna: 43.39 (cm)