Maximum Permissible Exposure (MPE) Evaluation

Applicant	: Kenwood Corporation
Equipment	: UHF DIGITAL TRANSCEIVER
Model No.	: NX-800-K2
FCC ID	: K44378701
IC CN and UPN	: 282F-378701

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^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=	406.1 to 470	(MHz)	: FCC / IC	: FCC
	406.1 to 430 , 450 to 470	(MHz)		: IC
Maximum peak power=	44.77	(dBm)	(=30W)	
Antenna gain=	2.15	(dBi)		

S=	0.27	(mW/cm^2)	
P=	18000.00	(mW)	(=Maximum peak power x 120% x Dutycycle 50%)
G=	1.64	(numeric)	
R=	93.17	(cm)	

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

Calculated minimum separation distance from antenna : 93.17 (cm)