FCC ID: QV5MERCURY6E

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

where: S = power density

P = power input to the antenna

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

Maximum peak output power at the antenna terminal:	29.896	(dBm)
Maximum peak output power at the antenna terminal:	976.34	(mW)
Antenna gain(typical):	6	(dBi)
Maximum antenna gain:	3.98	(numeric)
Prediction distance:	35	(cm)
Prediction frequency:	900	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.6	(mW/cm^2)
Power density at prediction frequency:	0.252	(mW/cm^2)

Therefore device complies with FCC RF radiation exposure limits
for general population in mobile exposure category (distance > 20cm)