## 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

 $\mathbf{R}$  = distance to the centre of radiation of the antenna

Maximum peak output power at the antenna terminal:	62.2	(mW)
Antenna gain (maximum):	4.40	(dBi)
Antenna gain (maximum):	2.75	(numeric)
Prediction distance:	20.0	(cm)
Prediction frequency:		
MPE limit for uncontrolled exposure at prediction frequency:	1	$(mW/cm^2)$
Power density at prediction frequency:	0.034	(mW/cm <sup>2</sup> )

Maximum allowable antenna gain: 19.0 (dBi)

<sup>&</sup>lt;sup>1</sup> JN5139\_XXX\_M04\_FCC\_MPE\_Calculation\_1v0.doc CF.