

## RF Safety Exhibit

Revision: 03

Date: 24 October 2001

Equipment: WaveCom MA4070B 12W Power Amplifier

FCC ID: OPPMA4070B

For radio transmitters in the 2500 to 2686 MHz band, paragraph 1.1310 limits maximum permissible exposure (MPE) to 1 mW/cm<sup>2</sup> for uncontrolled environments.

The maximum safe distance from the antenna at which MPE is met or exceeded is calculated from the equation relating field strength in V/m, transmit power in Watts, transmit antenna gain, and separation distance in meters:

### Basis of calculations:

$$\text{Safe Distance}_{\text{meters}} \text{ for } 1\text{mW/cm}^2 \text{ MPE} = (P_{\text{Watts}} \times \text{Antenna Gain}_{\text{dBi}} \times 30)^{0.5} / 61.4 \text{ V/m}$$

Transmitted Power (Watts)	Antenna Type (dBm)	Antenna Gain (dBi)	Safe Distance (meters)
1.41	31.5	omni	10
1.41	31.5	omni	15
1.41	31.5	cardioid horizontal	20
1.41	31.5	cardioid vertical	20

### Installation Requirements:

The MA4070B is used with a user-supplied antenna. A self-adhesive RF exposure label is supplied with each MA4070B unit for the user to affix to their antenna. Installation of the MA4070B and affixing of the RF exposure label to the antenna is described in the user manual, which is supplied with each MA4070B. See section 2.2.2 on page 9 of “Installation and Operation Guide for System Operators” user manual.

The following statement is included in the users manual and on the label to be attached to the antenna:

**“CAUTION: To comply with FCC RF exposure requirements in section 1.1307, a minimum separation distance of 1.5 meters is required between this antenna and all persons.”**