



5473A Clouds Rest Road : Mariposa, CA 95338 : Phone 209-966-5420 : Fax 209-742-6133

Maximum Permissible Exposure Calculations

Date of Report: October 17, 2001

Calculations prepared for:

IP Mobile Net

11909 East Telegraph Road
Santa Fe Springs, CA 90670

Calculations prepared by:

Dustin Oaks

CKC Laboratories, Inc.
5473A Clouds Rest Road
Mariposa, CA 95338

Model Number: IP8HPV

FCC Identification: MI7-IPMNIP8

Fundamental Operating Frequency:

806MHz - 821MHz

Maximum Rated Output Power:

16.00 Watts

Measured Output Power:

15.85 Watts

Power Output and Operating Frequency Information used for these calculations were from:
Garwood Laboratories, Test Report # FR1744-E

MPE Limit in accordance with 1.1310(b): Limits for general population/uncontrolled exposure

MPE Limit = $f/1500$, where f = Frequency in MHz

MPE Limit for 806 MHz = $806/1500 = 0.5373 \text{mW/cm}^2$

MPE Limit for 821 MHz = $821/1500 = 0.5473 \text{mW/cm}^2$

| Power Output (Watts) | Distance (Meters) | V/M | Power Density (mW/cm^2) | Result |
|-------------------------|----------------------|--------------|---------------------------------------|-------------|
| 15.85 | 0.5 | 43.62 | 0.504 | PASS |
| 16.0 | 0.5 | 43.82 | 0.5093 | PASS |

Power Density (W/M^2) = $(30 * P_t * G) / (d^2 * Z_o)$

P_t = Power Delivered to the Antenna

G = Antenna Gain

d = Distance in meters

Z_o = Impedance of Free Space

Under normal operating conditions, the antenna is designed to maintain a separation distance of 2 meters from all persons. As can be seen from the MPE results, this device passes the limits specified in 1.1310 at a distance of 50cm and at the rated output power of 16 Watts.