

FCC Part 15.247 Certification **Test Report**

FCC ID: SH5-WASP

FCC Rule Part: 15.247

ACS Report Number: 04-0219-15C

Manufacturer: Miltope Corporation
Equipment Type: Wireless LAN System
Model: WASP

RF Exposure Information

General Information:

Applicant: Miltope Corporation
 ACS Project: 04-0219
 FCC ID: SH5-WASP
 Device Category: Wireless LAN
 Environment: Fixed Mount on Aircraft

Technical Information:

Antenna Type: Patch
 Antenna Gain: 4dBi
 Transmitter Conducted Power: 19.72dBm
 Maximum System EIRP: 23.72dBm
 Operating Configuration: Mobile
 Exposure Conditions: >20cm

MPE Calculation

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30 \times P_x G}}{d} \quad \text{Power Density: } P_d (mW/cm^2) = \frac{E^2}{3770}$$

MPE Distance

| MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure* | | | | | | | |
|---|-------------------------|------------------------------------|-----------------------|--------------------------|-----------------------------|------------|----------------------|
| Transmit Freq. (MHz) | Radio Power (dBm) | Power Density Limit (mW/Cm2) | Radio Power (W) | Antenna Gain (dBi) | Antenna Gain (mW eq.) | E (V/m) | MPE Distance (cm) |
| 2462 | 19.57 | 1.00 | 0.09057 | 4 | 2.51 | 61.40 | 4.2549 |

Installation Guidelines

The installation manual contains the following text advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

"RF Exposure (Intentional Radiators Only)

This equipment complies with the FCC RF radiation requirements for uncontrolled environments. To maintain compliance with these requirements, the antenna and any radiating elements should be installed to ensure that a minimum separation distance of 20 cm is maintained from the general population.

Conclusion

This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.