

FCC Part 15.247 Certification **Test Report**

FCC ID: R7PER1R1S4

FCC Rule Part: 15.247

ACS Report Number: 06-0384-15C

Manufacturer: Cellnet Technology, Inc.
Model: L&G Focus-2 Utilinet Endpoint

RF Exposure Information

General Information:

Applicant: Cellnet
 ACS Project: 06-0384
 FCC ID: R7PER1R1S4
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Integrated Loop
 Antenna Gain: 3dBi
 Transmitter Conducted Power: 16.64dBm
 Maximum System EIRP: 19.64dBm
 Operating Configuration: Fixed mounted
 Exposure Conditions: Greater than 20 centimeters

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

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

Where:

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

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 (appropriate units, e.g., cm)

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*							
Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
902.1	16.64	0.60	46.13	3	1.995	20	0.018

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

In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 centimeters will be maintained.

Conclusion

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