

Certification Exhibit

FCC ID: R7PNG6R1S1 IC: 5294A-NG6R1S1

FCC Rule Part: 15.247 IC Radio Standards Specification: RSS-210

ACS Project Number: 11-0082

Manufacturer: Cellnet Technology, Inc. Models: Collector C6400, Collector C6420, Collector C6430

RF Exposure

General Information:

Applicant:	Cellnet Technology, Inc.
ACS Project:	11-0082
Device Category:	Mobile
Environment:	General Population/Uncontrolled Exposure

Technical Information:

Antenna Type:Omni-directional collinear whip antennaAntenna Gain:+5.5dBiMaximum Transmitter Conducted Power:28.48dBm, 0.705WMaximum System EIRP:33.98dBm, 2.5WExposure 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	Radio	Power	Radio	Antenna	Antenna	Distance	Power	
Frequency	Power	Density Limit	Power	Gain	Gain	(cm)	Density	
(MHz)	(dBm)	(mW/Cm2)	(mW)	(dBi)	(mW eq.)	(CIII)	(mW/cm^2)	
902.2	28.48	0.60	704.69	5.5	3.548	20	0.497	

Installation Guidelines

The installation manual should contain text similar to the following 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.