



Excellence in Compliance Testing

Certification Exhibit

**FCC ID: P2SNTGR900IV3
IC: 4171B-R900IV3**

**FCC Rule Part: 15.247, 15.249
IC Radio Standards Specification: RSS-210**

ACS Project Number: 11-0359

**Manufacturer: Neptune Technology Group, Inc.
Model: R900i SP**

RF Exposure

General Information:

Applicant: Neptune Technology Group, Inc.
 ACS Project: 11-0359
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Internal Antenna: PCB Inverted F antenna; External Antenna: Patch antenna
 Antenna Gain: Internal Antenna: -3dBi; External Antenna: 0dBi
 Maximum Transmitter Conducted Power: 23.42dBm
 Maximum System EIRP: 23.42 dBm, 219.8 mW
 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/Cm ²)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm ²)
919.0769	23.42	0.61	875.00	0	1.000	20	0.174

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.