

# FCC Part 15.247 Transmitter Certification

### **Frequency Hopping Spread Spectrum Transmitter**

## **Test Report**

FCC ID: P2SNTGR900G

FCC Rule Part: 15.247

ACS Report Number: 06-0101-15C

Manufacturer: Neptune Technology Group, Inc.

Model: R900G

# **RF Exposure**

#### **General Information:**

Applicant: Neptune Technology Group, Inc.

ACS Project: 06-0101

FCC ID: P2SNTGR900G

Device Category: Fixed

Environment: General Population/Uncontrolled Exposure

#### **Technical Information:**

Antenna Type: Integrated PCB Mounted Helix

Antenna Gain: 0dBi

Transmitter Conducted Power: 18.22dBm (Calculated)

Maximum System EIRP: 18.22dBm Operating Configuration: Fixed mounted

Exposure Conditions: Greater than 20 centimeters

#### **MPE Calculation**

The Power Density (mW/cm<sup>2</sup>) 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	Dictores	Power Density
Frequency	Power	Density Limit	Power	Gain	Gain (mW	(cm)	(mW/cm^2)
(MHz)	(dBm)	(mW/Cm2)	(mW)	(dBi)	eq.)	(CIII)	(IIIVV/CIII~2)
911.08	18.22	0.61	66.37	0	1.000	20	0.013

#### **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)

In accordance with FCC requirements of human exposure to radiofrequency fields, the radiating element shall be installed such that a minimum separation distance of 20cm 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.