



Excellence in Compliance Testing

Certification Exhibit

FCC ID: P2SMRXV3

FCC Rule Part: 47 CFR Part 2.1091

ACS Project Number: 16-0202

Manufacturer: Neptune Technology Group Inc.
Model: MRX920v3

RF Exposure

General Information:

Applicant: Neptune Technology Group Inc.
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Whip Antenna
 Antenna Gain: 5.1 dBi
 Maximum Transmitter Conducted Power: 21.39 dBm, 137.72 mW
 Maximum System EIRP: 26.49 dBm, 445.66 mW
 Exposure Conditions: 20 centimeters or greater

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)

Table 1: MPE Calculation

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)
919.0769	21.39	0.61	137.72	5.1	3.236	20	0.089