



Excellence in Compliance Testing

Certification Exhibit

FCC ID: RGY-9520

FCC Rule Part: 47 CFR Part 2.1091

ACS Project Number: 16-3098

Manufacturer: Roadmaster Inc.
Model: EA066-R

RF Exposure

General Information:

Applicant: Roadmaster Inc.
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Helical SMT
 Antenna Gain: 0.8 dBi
 Maximum Transmitter Conducted Power: 7.92 dBm, 6.19 mW
 Maximum System EIRP: 8.72 dBm, 7.45 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/Cm ²)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm ²)
923.42	7.92	0.62	6.19	0.8	1.202	20	0.001