



Certification Exhibit

FCC ID: QZC-MNIC

FCC Rule Part: 47 CFR Part 2.1091

Project Number: 72124703

Manufacturer: Elster Solutions
Model: MNIC

RF Exposure

General Information:

Applicant: Elster Solutions
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Half-Wave Dipole
 Antenna Gain: 5.15dBi dBi
 Maximum Transmitter Conducted Power: 29.985 dBm, 996.55 mW
 Maximum System EIRP: 35.135 dBm, 3262.12 mW
 Exposure Conditions: 31 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)
902.4	29.985	0.60	996.55	5.15	3.273	31	0.270