



Certification Exhibit

FCC ID: R7PNG1R1S1

FCC Rule Part: 15.247

Project Number: 72146019

Manufacturer: Landis+Gyr Technology, Inc.
Model: NIC AM

RF Exposure

General Information:

Applicant: Landis+Gyr Technology, Inc.
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Omnidirectional Whip
 Antenna Gain: 5.5dBi
 Maximum Transmitter Conducted Power: 29.13 dBm, 818.46 mW
 Maximum System EIRP: 34.63 dBm, 2904.02 mW
 Exposure Conditions: Greater than 30 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)

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)
902.3	29.13	0.60	818.46	5.5	3.548	30	0.257