



Certification Exhibit

FCC ID: R7PNG0R1S5LP

FCC Rule Part: 47 CFR Part 2.1091

Project Number: 72172746

Manufacturer: Landis + Gyr Technology, Inc
Model: T1501 Series-5 Mesh

RF Exposure

General Information:

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

Technical Information (900MHz – FCC 15.247):

Antenna Type: Monopole Chip Antenna
 Antenna Gains: 1 dBi
 Maximum Transmitter Conducted Power: 29.97dBm, 993.12mW
 Maximum System EIRP: 30.97dBm, 1250.26mW
 Exposure Conditions: 20 centimeters
 *Worst Case from all 900 MHz high power modes (FHSS)

Technical Information (900 MHz – FCC 15.249):

Antenna Type: Monopole Chip Antenna
 Antenna Gains: 1 dBi
 Maximum System EIRP: -1.58dBm, 0.70mW
 Exposure Conditions: 20 centimeters

*EIRP calculated from field strength using $EIRP (dBm) = E (dBuV/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.

*Worst Case from all 900 MHz low power modes (DXT)

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 (900 MHz – FCC 15.247)

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)
902.3	29.97	0.60	993.12	1.0	1.259	20	0.249

Table 2: MPE Calculation (900 MHz – FCC 15.249)

Transmit Frequency (MHz)	Radio Power EIRP (dBm)	Power Density Limit (mW/cm ²)	Radio Power EIRP (mW)	Distance (cm)	Power Density (mW/cm ²)
915	-1.58	0.61	0.70	20	0.00014