

Certification Exhibit

FCC ID: R7PNG0R1X8

FCC Rule Part: 47 CFR Part 2.1091

Project Number: 72197962

Manufacturer: Landis + Gyr Technology, Inc Model Name: S6-MCM0

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: Dipole Antenna
**Total Antenna Gain: 1.26 dBi
*Maximum Transmitter Conducted Power: 28.58 dBm, 721.11mW
Maximum System EIRP: 29.84 dBm, 963.83 mW
Exposure Conditions: 20 centimeters
*Worst Case from all 900 MHz modes (FHSS/Hybrid/DTS)
**Declared by the customer

RF Exposure Calculation

Technical Parameters	Dipole Antenna
Frequency Range (GHz)	0.9022-0.9278
Frequency Range (MHz)	902.2 - 927.8
Separation Distance (cm)	20.00
Separation Distance (m)	0.2000
Antenna Gain (dBi)	1.26
ERP Easily Determined	YES
Conducted Power (dBm)	28.58
Conducted Power (mW)	721.11
Duty Factor (Source-Based) %	100.0
Maximum (Source-Based) Time-Averaged Conducted Power (mW)	721.11
Maximum (Source-Based) Time-Averaged ERP (mW)	587.70
Maximum (Source-Based) Time-Averaged EIRP (mW)	963.83
Maximum Output (mW)	721.11

Test Exemption Criteria

Test exemption is determined by 47 CFR 1.1307(b)(3)(i)(B) where single RF source is exempt if:

The available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. Pth is given by:

$$P_{th} (mW) = \begin{cases} ERP_{20 cm} (d/20 cm)^{x} & d \le 20 cm \\ \\ ERP_{20 cm} & 20 cm < d \le 40 cm \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$$
 and f is in GHz;

and

$$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);

Technical Parameters	Dipole Antenna
Х	1.46
ERP _{20cm} (mW)	1840.49
Maximum Output (mW)	721.107
P _{th} (mW)	1840.488
Exemption	YES

Report: AT72197962-3P0