RF Exposure Report

Project Number: 4844711 **Proposal:** SUW-202108001896

Report Number: 4844711EMC03 **Revision Level:** 0

Client: Landis+Gyr Technology, Inc.

Equipment Under Test: 900MHz Radio Module

Model Number: M255

FCC ID: R7PEC6R1X2

Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498
FCC OET Bulletin 65 Supplement

Report issued on: 30 November 2021

Test Result: Compliant

FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01
This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

Prepared by: Jeremy Pickens, RF Lab Manager

Reviewed by: David Schramm, Operations Manager

Remarks: This report details the results of the testing carried out on one sample; the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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1 General Information

1.1 *Client Information*

Name:	Landis+Gyr Technology, Inc.
Address:	30000 Mill Creek Avenue, Suite 100
City, State, Zip, Country:	Alpharetta, GA 30022, USA

1.2 *Test Laboratory*

Name:	SGS North America, Inc.
Address:	620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country:	Suwanee, GA 30024, USA
Accrediting Body:	A2LA
Type of lab:	Testing Laboratory
Certificate Number:	3212.01

1.3 *General Information of EUT*

Product Description:	900 MHz Radio Module
Model Number:	M255
Serial Numbers:	Mesh NB/WB: M225Y292100122P25001 Mesh IP / WiSUN: M255Y292100075P04003
Antenna:	Bent Metal Inverted F – 0dBi
Modes of Operation:	902-928MHz, (9.6/10/19.2/20/38.4/50/115.2/150/200kbps FSK/GFSK)
Sample Received Date:	19 October 2021
Dates of testing:	26 October – 01 November 2021

1.4 *Operating Modes and Conditions*

For this assessment, the EUT's maximum measured peak conducted power was considered.

2 RF Exposure

2.1 *Test Result*

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

2.2 *Test Method*

Using the maximum measured peak conducted power, the power density was calculated. Maximum antenna gain was assumed for this exercise.

2.3 *Single transmission RF Exposure Levels*

Band of Operation		Conducted Power w/tolerance	Antenna Gain	Cable Loss	Average EIRP		Distance (R)	Power Density $EIRP_{Avg}/(4\pi R^2)$	FCC	% of Limit	Verdict
Type	MHz	dBm			dBm	mW	cm	mW/cm^2	mW/cm^2		
Sub GHz	902-928	27.9	0.0	0.0	27.9	617	20	0.123	0.60	20%	Pass

3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	30 November 2021