F2 Labs
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CERTIFICATION TEST REPORT

Manufacturer:	**Trimble Inc.** **10368 Westmoor Drive** **Westminster, Colorado 80021 USA**
Applicant:	**Same as Above**
Product Name:	SIMPAS_RE RFID R/W
Product Description:	RFID Reader/Writer
Model:	**SMSE013**
FCC ID:	**JUP-SMSE013**
Test Results:	**In Compliance** The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.

Standards:

- **KDB447498**
- **FCC 1.1310**

Evaluation Conducted by:

Julius Chiller, Senior Wireless Project Engineer

Report Reviewed by:

Ken Littell, Vice President of Operations

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1 ADMINISTRATIVE INFORMATION

1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD**.**

1.2 Measurement Procedure:

All measurements were performed according to KDB558074.

1.4 Document History

Document Number	Description	Issue Date	Approved By
F2P28883-C1-02E	First Issue	2024-04-04	K. Littell

2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device >20cm from Human	KDB447498	Complies

Modifications Made to the Equipment
None

3 ENGINEERING STATEMENT

This report has been prepared on behalf of Trimble Inc. to provide documentation for the testing described herein. This equipment has been tested and found to comply with KDB447498. The test results found in this test report relate only to the item(s) tested.

4 EUT INFORMATION AND DATA

4.1 Equipment Under Test:

Product: SIMPAS_RE RFID R/W
Model: SMSE013
Serial No.: 3059790002C 16027
Firmware: 4.2.2.0
Hardware: 4.0
FCC ID: **JUP-SMSE013**

4.2 Trade Name:

Trimble Inc.

4.3 Power Supply:

USB 5VDC

4.4 Applicable Rules:

KDB447498

4.5 Antenna:

Dipole, Mueller Electronics 3059790003

4.6 Accessories:

Device	Manufacturer	Model Number	Serial Number
Laptop	Dell	Latitude E6530	None Specified
Power Supply*	BK Precision	1685B	346F17303

**Indicates F2 Labs-supplied equipment.*

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5. RF EXPOSURE FOR DEVICE >20cm FROM HUMAN

5.1 Requirements: **Distance used is 20cm**

Limit: 0.602mW/cm^2 (902.75/1500)

Formula used for result:

$$\frac{\text{E.I.R.P.}}{4\,\pi\,R^2}$$

Results: Max Conducted Output Power was 17.66dBm on the 902.75 MHz Low Channel. The Peak Antenna Gain was -17.31dBi

E.I.R.P. = 1.08mW at the 902.75 MHz Low Channel.

$$\frac{1.08\text{mW}}{4\,\pi\,R^2} = \frac{1.08\text{mW}}{5026.55} = 0.00021\text{mW/cm2}$$