

Test Report

Prepared for: Southwest Microwave, Inc.

Model: MS30-POE-S

Description: Short Range K-Band Transceiver

Serial Number: EP001

FCC ID: CA6MS30

Project No: p2620005

Test Results: Pass

To

FCC Part 1.1310

Date of Issue: March 9, 2026

On the behalf of the applicant:

Southwest Microwave, Inc.
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Attention of:

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ISED Site Reg. #2044A-2

Reviewed / Authorized By:



Madhava Gooduru,
EMC RF Test Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	3/9/2026	Madhava Gooduru	Original Document

ANAB

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to the joint ISO-ILAC-IAF Communiqué dated January 2009).

The tests results contained within this test report all fall within our scope of accreditation, unless noted below.

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.



EUT Description

Model:	MS30-POE-S
Serial:	EP001
Firmware:	K-LD7 APP RFB-0105
Software:	6447639-A01 REV 0xy
Description:	Short Range K-Band Transceiver
Additional Information:	This EUT is K-Band Short Range Digital Radar Transceiver provides reliable three-dimensional perimeter protection in outdoor environments. Type of Modulation: FSK Highest Frequency Generated: Frequency < 24.250 GHz EUT operates at 48 VDC (POE). Antenna: Integrated patch antenna Usage: Perimeter security for fencelines, open areas, gates, entryways, walls and rooftop applications The EUT incorporates a pre-certified radio module/IC that has been granted FCC certification under its FCC ID: 2ASYV-K-LD7
Receipt of Sample(s):	Feb 19, 2026
EUT Condition:	Visual Damage No State of Development Production/Production Equivalent

Applicable Standard

This RF exposure evaluation was performed in accordance with the following requirements:

- 47 CFR § 2.1091
- 47 CFR § 1.1307
- 47 CFR § 1.1310
- FCC KDB 447498 D01 v06

RF Exposure Evaluation method

The Equipment Under Test (EUT) was reviewed in accordance with FCC KDB 447498 D 01 v06

MPE Evaluation

The EUT is a fixed device used in an Uncontrolled Exposure environment.

Limits Uncontrolled Exposure
47 CFR 1.1310
Table 1, (ii)

0.3-1.34 MHz:	Limit [mW/cm ²] = 100
1.34-30 MHz:	Limit [mW/cm ²] = (180/f ²)
30-300 MHz:	Limit [mW/cm ²] = 0.2
300-1500 MHz:	Limit [mW/cm ²] = f/1500
1500-100,000 MHz	Limit [mW/cm ²] = 1.0

Limits Controlled Exposure
47 CFR 1.1310
Table 1, (i)

0.3-3.0 MHz:	Limit [mW/cm ²] = 100
3.0-30 MHz:	Limit [mW/cm ²] = (900/f ²)
30-300 MHz:	Limit [mW/cm ²] = 1.0
300-1500 MHz:	Limit [mW/cm ²] = f/300
1500-100,000 MHz	Limit [mW/cm ²] = 5.0

MPE calculations

Worst case RF exposure calculations were calculated using the highest gain antenna and the higher of the measured output power or the rated output power.

In this case, the measured worst EIRP power was used for the MPE calculation.

The limit for this frequency range is fixed and not dependent on the test frequency. The test frequency entered in the table corresponds to the frequency with the highest output power.

Test Frequency, MHz	24193
Power, EIRP mW (P)	9.46
Antenna Type	Patch array panel
Distance (R)	20 cm

*Since worst EIRP power is used for MPE calculations.

$S = \frac{P}{4\pi r^2}$
Power Density (S) mW/cm ²

Power Density (S) = 0.00188 mW/cm ²
Limit = (from above table) = 1.0 mW/cm ²

The EUT Power Density of 0.00188 mW/cm² is below the limit of 1.0 mW/cm² with an integrated antenna at 20 cm distance.

END OF TEST REPORT