

Test Report

Prepared for: Alzatex, Inc

Model: SG300A

FCC ID: 2BMBO-ALZASPEED

ISED ID: 33560-ALZASPEED

Serial Number: SG20002

Project No: p24b0007

Test Results: Pass

To
FCC Part 1.1310

Date of Issue: April 23, 2025

On the behalf of the applicant:

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Attention of:

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ANAB Cert#: AT-2901
FCC Site Reg. #US2901
ISED Site Reg. #2044A-2



Greg Corbin
Project Test Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	4/23/2025	Greg Corbin	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.compliantesting.com/labscope.html> for current scope of accreditation.



FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description

Model:	SG300A
Serial:	SG20002
Firmware:	V0.08H
Software:	N/A
HVIN	SG300A
PMN	alzaSpeed
UPN	alzaSpeed
FVIN	V0.08
Description:	Radar Speed Gun
Additional Information:	Freq Range = 24075 – 24175 GHz Modulation = CW
Receipt of Sample(s):	3/26/2025
EUT Condition:	<p>Visual Damage No</p> <p>State of Development Production/Production Equivalent</p>

Test Setup and Modes of Operation

For all tests, the EUT was placed in CW mode of operation.

EUT Operation during Tests

The EUT CW transmitter is turned on by depressing the trigger. The transmitter stays on until the trigger is depressed a 2nd time.

For all the RF tests, the radar gun was powered by internal batteries with the external display connected.

MPE Evaluation

The EUT is a portable device used in an Uncontrolled Exposure environment. Per KDB 447498 D04 Interim General RF Exposure Guidance v01, all devices operating at > 6 GHz are to be evaluated per the MPE limits in § 1.1310(e)(1) - Table 1

Limits Uncontrolled Exposure

47 CFR 1.1310

Table 1, (ii)

0.3-1.234 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

Test Data

The radiated output power used in the MPE calculation is from the FCC Part 15.245 test report. (p24b0007_FCC_Part 15.245_rev 1.0) associated with EUT.

The antenna gain is part of the final radiated power measurement.

0 dBi antenna gain was used for the MPE calculation.

With the EUT held in the hand, the antenna is at least 10 cm from the trigger, which is the closest point to the user in normal operation.

MPE calculation

Test Frequency, MHz	24120
Power, EIRP mW (P)	1159.1
Antenna Gain Isotropic	0
Antenna Gain Numeric (G)	1
Antenna Type	lense
Distance (R)	10 cm

$$S = \frac{P * G}{4\pi r^2}$$

Power Density (S) mw/cm²

Power Density (S) = 0.922 mW/cm ²
Limit = (from above table) = 1.0 mW/cm ²

The EUT Power Density of 0.922 mW/cm² is under the limit of 1.0 mW/cm² at 10 cm.

END OF TEST REPORT