

## 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:**

Alzatex, Inc.  
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**Attention of:**

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**Prepared By:**

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



The stamp is circular with the text "COMPLIANCE TESTING" around the top and "ESTABLISHED 1963" around the bottom. The word "CERTIFIED" is at the very bottom. A handwritten signature, "Greg Corbin", is written across the center of the stamp.

**Greg Corbin**  
**Project Test Engineer**

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All results contained herein relate only to the sample tested

### 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.compliancetesting.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

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

## 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 2<sup>nd</sup> 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 <sup>2</sup> ] = 100
1.34-30 MHz:	Limit [mW/cm <sup>2</sup> ] = (180/f <sup>2</sup> )
30-300 MHz:	Limit [mW/cm <sup>2</sup> ] = 0.2
300-1500 MHz:	Limit [mW/cm <sup>2</sup> ] = f/1500
1500-100,000 MHz	Limit [mW/cm <sup>2</sup> ] = 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/cm <sup>2</sup>

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

The EUT Power Density of 0.922 mW/cm<sup>2</sup> is under the limit of 1.0 mW/cm<sup>2</sup> at 10 cm.

END OF TEST REPORT