



Test Report No.:
GJWSZ2025-0150-H

RF Test Report

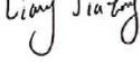
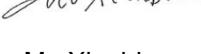
FCC ID : 2AXLB-EA-J150

NAME OF SAMPLE : Agricultural Spraying Drone

APPLICANT : SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD

CLASSIFICATION OF TEST : N/A

CVC Testing Technology (Shenzhen) Co., Ltd.

Applicant		Name: SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD Address: Unit 1-A, No.3 Workshop, 28 asheng Road,SIP Suzhou, Jiangsu, China	
Manufacturer		Name: SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD Address: Room 504&505, Building 2, Nanopolis District II, No.333, Xingpu Road, SIP Suzhou, Jiangsu, China	
Equipment Under Test		Name: Agricultural Spraying Drone Model/Type: EA-J150;3WWDZ-U70B, Additional Model: EA-J70;3WWDZ-U35A;EA-J100EVO Brand Name: EAVISION Serial NO.: N/A Sample NO.: 1-1	
Date of Receipt.	Mar.19,2025	Date of Testing	Mar.19,2025~Aug.11,2025
Test Specification		Test Result	
FCC Part 2 (Section 2.1091) KDB 447498 D01v06		PASS	
Evaluation of Test Result		The equipment under test was found to comply with the requirements of the standards applied.	
		Seal of CVC Issue Date: Aug.11,2025	
Compiled by:  <u>Liang Jiatong</u> Name Signature		Reviewed by:  <u>Mo Xianbiao</u> Name Signature	Approved by:  <u>Dong Sanbi</u> Name Signature
Other Aspects: NONE.			

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
GJWSZ2025-0150-H	Original release	Aug.11,2025

1 GENERAL PRODUCT INFORMATION

PRODUCT	Agricultural Spraying Drone
BRAND	EAVISION
TEST MODEL	EA-J150;3WWWDZ-U70B
ADDITIONAL MODEL	EA-J70,3WWWDZ-U35A,EA-J100EVO
POWER SUPPLY	DC 52.22V by Lithium Ion Polmer Rechargeable Battery Battery model: EAV-CTB45Ah Max Charge Voltage:59.92V Nominal Voltage:52.22V Rated Capacity:45000mAh DC 20-28V(Radar)
MODULATION TECHNOLOGY	Radar: FMCW WIFI: BR:BPSK, QPSK, Slot:BPSK, QPSK, 16QAM, 64QAM
FREQUENCY RANGE	Radar TM1: 60 ~ 64GHz Radar TM2: 60 ~ 64GHz WIFI: 2405 MHz ~ 2465 MHz
PEAK OUTPUT POWER	Radar TM1: 12.85dBm Radar TM2: 12.20dBm WIFI Chain 0: 25.18dBm WIFI Chain 1: 25.66dBm
ANTENNA TYPE (Note 4)	Radar TM1: Layout Antenna@18.6dBi Radar TM2: Layout Antenna@18.6dBi WIFI Chain 0: External Antenna@1.9dBi WIFI Chain 1: External Antenna@1.9dBi
I/O PORTS	Refer to user's manual

Note:

1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. EUT photo refer to report.
4. Since the above data and/or information is provided by the client, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
5. The capacity of the pesticide box and the power of the motor are different.

2 RF EXPOSURE LIMITGENERAL INFORMATION

2.1 TEST STANDARDS

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

KDB447498 D01: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

2.2 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.3 LIMIT

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
3.0 – 30	1842/f	4.89/f	(900/f ²)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	/	/	f/300	6
1500 – 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 30	824/f	2.19/f	(180/f ²)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

2.4 MPE CALCULATION METHOD

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

2.5 MANUFACTURING TOLERANCE

The measured PEAK EIRP Power

Test Mode	Frequency(GHz)	PEAK EIRP(dBm)
Radar TM1	60 ~ 64	12.85
Radar TM2	60 ~ 64	12.20

Note: EIPR=P*G

The measured Maximum PEAK Output Power

Test Mode	Frequency(MHz)	PEAK Power(dBm)
WIFI Chain 0	2405 MHz ~ 2465 MHz	25.18
WIFI Chain 1	2405 MHz ~ 2465 MHz	25.66

The tuned EIRP Power(Note)

Test Mode	Target EIRP (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
Radar TM1	12.85	±1	11.85	13.85
Radar TM2	12.20	±1	11.20	13.20

Note: EIPR=P*G

The tuned Output Power

Test Mode	Target Output Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
WIFI Chain 0	25	±1	24	26
WIFI Chain 1	25	±1	24	26

2.6 TEST RESULT

MAXIMUM PERMISSIBLE EXPOSURE (FCC)

Test Mode	Target Output power (dBm)	Gain (dBi)	Target EIRP (dBm)	Distance (cm)	MPE (mW/cm ²)	Limit MPE (mW/cm ²)	Ratio
Radar TM1	/	/	13.85	20	0.0048	1	0.0048
Radar TM2	/	/	13.20	20	0.0042	1	0.0042
WIFI Chain 0	26	1.9	27.90	20	0.1227	1	0.1227
WIFI Chain 1	26	1.9	27.90	20	0.1227	1	0.1227
Sum of ratio =Radar TM1 + Radar TM2 + WIFI Chain 0 + WIFI Chain 1							0.2544

Note: Target EIRP = Target Output power +Gain

Conclusion:

Therefore, the worst-case situation(Simultaneous Transmitting) is 0.2544(Sum of Ratios), which is less than "1". This confirmed that the device compliance with FCC RF exposure requirements.

----- End of the Report -----

Important

- (1) The test report is invalid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

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