

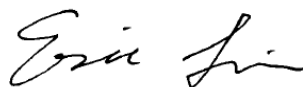
### 1 Cover Page

## RF Exposure Evaluation Report

**Application No.:** KSCR2302000244AT  
**FCC ID:** 2AXLB-EA30XP  
**Applicant:** SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD  
**Address of Applicant:** Unit 1-A, No.3 Workshop, 28 Xiasheng Road, SIP, Suzhou, China  
**Manufacturer:** SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD  
**Address of Manufacturer:** Unit 1-A, No.3 Workshop, 28 Xiasheng Road, SIP, Suzhou, China  
**Factory:** SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD  
**Address of Factory:** Unit 1-A, No.3 Workshop, 28 Xiasheng Road, SIP, Suzhou, China  
**Equipment Under Test (EUT):**  
**EUT Name:** EA-30XP Agricultural Spraying Drone  
**Model No.:** EA-30XP  
**Trade Mark:** EAVISION  
**Standard(s) :** FCC Rules 47 CFR §2.1091  
KDB 447498 D01 interim General RF Exposure Guidance v06  
**Date of Receipt:** 2023-02-17  
**Date of Test:** 2023-02-24 to 2023-03-16  
**Date of Issue:** 2023-03-21

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.



Eric Lin  
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2023-03-21	/

<b>Authorized for issue by:</b>			
		<i>Pawn Liu</i>	
		_____	
		<b>Pawn Liu/Project Engineer</b>	
		<i>Eric Lin</i>	
		_____	
		<b>Eric Lin/Reviewer</b>	



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### 3 General Information

#### 3.1 General Description of E.U.T.

Power supply:	DC 51.8V by Battery Battery model:JM2-29000mAh-51.8V Max Charge Voltage:58.8V Nominal Voltage:51.8V Rated Capacity:29000mAh,1502Wh
---------------	--

#### 3.2 Details of E.U.T.

##### BT

Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	Linear Antenna
Antenna Gain:	2.2dBi (Provided by the manufacturer)
Antenna Number:	1

##### BLE

Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Data Rate:	1Mbps
Antenna Type:	Linear Antenna
Antenna Gain:	2.2dBi (Provided by the manufacturer)
Antenna Number:	1



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**5.8G**

Operation Frequency/Number of channels (20MHz):	U-NII-3: 5745-5825MHz (5 Channels)
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	802.11a: 20MHz
TPC Function:	Without TPC function
Antenna Type:	Antenna 1: Dipole Antenna with RP-SMA connector; Antenna 2: Dipole Antenna with RP-SMA connector
Antenna Gain:	Antenna 1:4.91dBi (Provided by the manufacturer); Antenna 2:4.91dBi (Provided by the manufacturer); Not support MIMO mode.

**24G**

Operation Frequency Range:	24.00GHz to 24.25GHz
Center Frequency:	24.125GHz
Channel Number:	1
Modulation:	FMCW
Antenna Type:	PCB Antenna

**2.4G WIFI( The module has been certified ,FCC ID: VOB-P3310)**

Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
Channel Spacing:	5MHz
Antenna Type:	Antenna 1:Proprietary Antenna Antenna 2: Proprietary Antenna
Antenna Gain:	Antenna 1:3dBi, Antenna 2: 3dBi (Provided by the manufacturer) Directional Gain: 6.01dBi



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### 3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc ) is provided by the applicant. (if applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

### 3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

#### • FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

#### • ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

#### • VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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### 4 FCC Radiofrequency radiation exposure limits

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency	Power density(mW/cm <sup>2</sup> )	Averaging time(minutes)
300MHz~1.5GHz	f/1500	30
1.5GHz~100GHz	1.0	30



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## 5 Measurement and Calculation

### 5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR230200024402, KSCR230200024403, KSCR230200024404

#### BT

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
GFSK	2402	8.05	6.38
	2441	8.57	7.19
	2480	7.89	6.15
π/4DQPSK	2402	8.57	7.19
	2441	8.86	7.69
	2480	7.86	6.11
8DPSK	2402	8.98	7.91
	2441	9.33	<b>8.57</b>
	2480	8.45	7.00

#### BLE

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Output Power (mW)
1M	2402	5.76	3.77
	2442	6.40	<b>4.37</b>
	2480	5.70	3.72

#### 5.8G

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a (ANT1)	5745	14.52	<b>28.31</b>
	5785	14.09	25.64
	5825	14.35	27.23
802.11a (ANT2)	5745	14.13	25.88
	5785	14.04	25.35
	5825	14.41	<b>27.61</b>



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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230200024405

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### 24G

Frequency (GHz)	dBuV/m @ 1m	E.I.R.P. Power (dBm)	E.I.R.P. Power (mW)
24.125	113.94	9.17	<b>8.26</b>
	110.59	5.82	3.82
	111.64	6.87	4.86
	109.07	4.30	2.69

The power of 2.4G WIFI base on the FCC certificate module of P3310,  
FCC ID is:VOB-P3310, the maximum output power refer to test report: 11526345-E3V3

### 2.4G WIFI

Test Mode	Test Frequency(MHz)	Max Output Power [dBm]	Max Output Power [mW]
11B SISO	2412-2472	18.40	69.18
11G SISO	2412-2472	18.44	<b>69.92</b>
11N HT20 MIMO	2412-2472	18.24	66.68



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**5.2 RF Exposure Calculation**

According to the formula  $S=PG/4\pi R^2$ , we can calculate S which is MPE.

Note:

- 1) P (mW)
- 2) G (Antenna gain in numeric)
- 3) R = distance to the center of radiation of antenna (in meter) = 20cm
- 4) MPE limit = 1mW/cm<sup>2</sup>

**BT:**

The Max Conducted Peak Output Power is 8.57mW,. The best case gain of the antenna is 2.2dBi.

2.2dBi logarithmic terms convert to numeric result is nearly 1.66

According to the formula. calculate the EIRP test result:

$EIRP= P \times G = 8.57mW \times 1.66 = 14.23mW$

The max EIRP is	$PG =$	14.23	mW =	0.0142	W;
So, $S = \frac{PG}{4R^2\pi}$	=	0.03	W/m <sup>2</sup>		

**BLE:**

The Max Conducted Peak Output Power is 4.37mW,. The best case gain of the antenna is 2.2dBi.

2.2dBi logarithmic terms convert to numeric result is nearly 1.66

According to the formula. calculate the EIRP test result:

$EIRP= P \times G = 4.37mW \times 1.66 = 7.25mW$

The max EIRP is	$PG =$	7.25	mW =	0.0073	W;
So, $S = \frac{PG}{4R^2\pi}$	=	0.01	W/m <sup>2</sup>		

**5.8G WiFi**

The Max Conducted Average Output Power is 28.31 mW for antenna1.

The Max Conducted Average Output Power is 27.61 mW for antenna1.

The best case gain of the antenna is 4.91dBi for antenna1 ,4.91dBi for antenna2.

4.91dBi logarithmic terms convert to numeric result is nearly 3.10

4.91dBi logarithmic terms convert to numeric result is nearly 3.10

According to the formula. calculate the EIRP test result:

Antenna1:  $EIRP= P \times G = 28.31mW \times 3.10 = 87.76mW$

Antenna2:  $EIRP= P \times G = 27.61mW \times 3.10 = 85.59mW$



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Antenna1:

The max EIRP is PG =	87.76	mW =	0.0878	W;
$S_o, S = \frac{PG}{4R^2\pi}$ =	0.17	W/m <sup>2</sup>		

Antenna2:

The max EIRP is PG =	85.59	mW =	0.0856	W;
$S_o, S = \frac{PG}{4R^2\pi}$ =	0.17	W/m <sup>2</sup>		

**2.4G WIFI**

The Max Conducted Output Power is 69.82 mW for SISO mode, 66.68 mW for MIMO mode. The best case gain of the antenna1 & antenna2 is 3dBi , 6.01dBi for Directional Gain:

3dBi logarithmic terms convert to numeric result is nearly 2.00

6.01dBi logarithmic terms convert to numeric result is nearly 3.99

In SISO mode: EIRP= P x G = 69.82 mW x 2.00 = 139.64mW

In MIMO mode: EIRP= P x G = 66.68 mW x 3.99= 266.05mW

The max EIRP is PG =	266.1	mW =	0.2661	W;
$S_o, S = \frac{PG}{4R^2\pi}$ =	0.53	W/m <sup>2</sup>		

**24G**

The max EIRP is PG =	8.26	mW =	0.0083	W;
$S_o, S = \frac{PG}{4R^2\pi}$ =	0.02	W/m <sup>2</sup>		

The 5.8GHz WiFi,BT,2.4GWiFi and 24G Radar can transmit simultaneously, but the maximum rate of MPE is

0.03+0.17+0.53+0.02=0.75≤1.

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report

--End of the Report--



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