

TEST REPORT

Applicant: SZ DJI TECHNOLOGY CO., LTD.
Address: Lobby of T2, DJI Sky City, No. 53 Xianyuan Road,
Xili Community, Xili Street, Nanshan District,
518055 Shenzhen, China
Equipment Type: DJI AGRAS T55
Model Name: 3WWDZ-U50C
Brand Name: DJI
FCC ID: SS3-T55A2510
Test Standard: 47 CFR Part 2.1091
KDB 447498 D04 v01
Sample Arrival Date: Oct. 22, 2025
Test Date: Dec. 17, 2025
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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Xiong Lining**Checked by:** Xu Rui**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Dec. 18, 2025</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Contact Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.1 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No. 55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	SZ DJI TECHNOLOGY CO., LTD.
Address	Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, 518055 Shenzhen, China

2.2 Manufacturer Information

Manufacturer	SZ DJI TECHNOLOGY CO., LTD.
Address	Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, 518055 Shenzhen, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	DJI AGRAS T55
Model Name Under Test	3WWDZ-U50C
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	WIFI 802.11g, 2.4G SDR, 5.2G SDR, 5.8G SDR GPS, BDS, Galileo, ADS-B
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	WLAN; SDR	
Frequency Range	802.11g	2400 ~ 2483.5 MHz
	2.4G SDR (10MHz/20MHz/40MHz/60MHz)	2400 ~ 2483.5 MHz
	5.2G SDR (10MHz/20MHz/40MHz/60MHz/ 80MHz)	5150 ~ 5250 MHz
	5.8G SDR (10MHz/20MHz/40MHz/60MHz/ 80MHz)	5725 ~ 5850 MHz
Antenna Type	WLAN	UAV Antenna
	SDR	UAV Antenna
Exposure Category	General Population/Uncontrolled Exposure	
EUT Type	Mobile Device	

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1091	Radiofrequency radiation exposure evaluation: mobile devices
2	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01

4 DEVICE CATEGORY AND LEVELS LIMITS

Mobile Devices:

CFR Title 47 §2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

FCC KDB 447498 D04 General RF Exposure Guidance v01 Limit

Evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i. e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
300		39	65	88	110	129	148	166	184	201	217
450		22	44	67	89	112	135	158	180	203	226
835		9	25	44	66	90	116	145	175	207	240
1900		3	12	26	44	66	92	122	157	195	236
2450		3	10	22	38	59	83	111	143	179	219
3600		2	8	18	32	49	71	96	125	158	195
5800		1	6	14	25	40	58	80	106	136	169

5 ASSESSMENT RESULT

5.1 Output Power

Mode	2.4G WIFI
Conducted Power (dBm)	23.70
Antenna Gain (dBi)	2.50
EIRP (dBm)	26.20
Note: This report listed the worst case conducted power value, please refer to BL-SZ25A0801-601 report for more details.	

Mode	2.4G SDR-ANT2	2.4G SDR-ANT3	2.4G SDR-MIMO-ANT2+3
Conducted Power (dBm)	25.97	26.09	29.02
Antenna Gain (dBi)	2.50	2.50	2.50
EIRP (dBm)	28.47	28.59	31.52
Note: This report listed the worst case conducted power value, please refer to BL-SZ25A0801-602 report for more details.			

Mode	5.2G SDR-ANT2	5.2G SDR-ANT3	5.2G SDR-MIMO-ANT2+3
Conducted Power (dBm)	14.46	14.86	17.55
Antenna Gain (dBi)	2.00	2.00	2.00
EIRP (dBm)	16.46	16.86	19.55
Mode	5.8G SDR-ANT2	5.8G SDR-ANT3	5.8G SDR-MIMO-ANT2+3
Conducted Power (dBm)	26.18	25.98	29.09
Antenna Gain (dBi)	2.50	2.50	2.50
EIRP (dBm)	28.68	28.48	31.59
Note: This report listed the worst case conducted power value, please refer to BL-SZ25A0801-603 report for more details.			

5.2 Tune-up power

Mode	Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)
2.4G WIFI	[22.00, 24.00]	[24.50, 26.50]	[22.35, 24.35]
2.4G SDR-ANT2	[24.00, 26.00]	[26.50, 28.50]	[24.35, 26.35]
2.4G SDR-ANT3	[25.00, 27.00]	[28.50, 30.50]	[26.35, 28.35]
2.4G SDR-MIMO-ANT2+3	[28.00, 30.00]	[30.50, 32.50]	[28.35, 30.35]
5.2G SDR-ANT2	[13.00, 15.00]	[15.00, 17.00]	[12.85, 14.85]
5.2G SDR-ANT3	[13.00, 15.00]	[15.00, 17.00]	[12.85, 14.85]
5.2G SDR-MIMO-ANT2+3	[16.00, 18.00]	[18.00, 20.00]	[15.85, 17.85]
5.8G SDR-ANT2	[25.00, 27.00]	[28.50, 30.50]	[26.35, 28.35]
5.8G SDR-ANT3	[24.00, 26.00]	[26.50, 28.50]	[24.35, 26.35]
5.8G SDR-MIMO-ANT2+3	[28.00, 30.00]	[30.50, 32.50]	[28.35, 30.35]

Note 1: ERP= EIRP -2.15dB.

Note 2: According KDB 447498 D04, used the greater of maximum conducted power and ERP to compare with the threshold value Pth.

5.3 RF Exposure Evaluation Result

Evolution Mode	Maximum power (dBm)	Maximum power (mW)	Distance (mm)	Threshold Power (mW)	Power / Limit	Verdict
2.4G WIFI	24.35	272.27	200	3060.00	0.089	Pass
2.4G SDR-ANT2	26.35	431.52	200	3060.00	0.141	Pass
2.4G SDR-ANT3	28.35	683.91	200	3060.00	0.224	Pass
2.4G SDR-MIMO-ANT2+3	30.35	1083.93	200	3060.00	0.354	Pass
5.2G SDR-ANT2	15.00	31.62	200	3060.00	0.010	Pass
5.2G SDR-ANT3	15.00	31.62	200	3060.00	0.010	Pass
5.2G SDR-MIMO-ANT2+3	18.00	63.10	200	3060.00	0.021	Pass
5.8G SDR-ANT2	28.35	683.91	200	3060.00	0.224	Pass
5.8G SDR-ANT3	26.35	431.52	200	3060.00	0.141	Pass
5.8G SDR-MIMO-ANT2+3	30.35	1083.93	200	3060.00	0.354	Pass

5.4 Collocated Power Calculation

Evolution Mode	Power /Limit	Σ (Power / Limit) of 2.4G WIFI + 5G SDR	Verdict
2.4G WIFI	0.089	0.443	Pass
Max. 5G SDR	0.354		

Note:

1. Σ (Power / Limit): This is a summation of [(power for each transmitter/ antenna included in the simultaneous transmission)/ (corresponding Power limit)], for 2.4G WIFI + 5G SDR.
2. Both of the 2.4GHz/5.8GHz can transmit simultaneously, the formula of calculated the Power is $CP1 / LP1 + CP2 / LP2 + \dots \text{etc.} < 1$
 CP = Calculation power
 LP = Limit of power
3. The worst-case situation is 0.443, which is less than "1". This confirmed that the device comply with FCC KDB 447498 D04 Power limit.
4. The DUT work frequency range used is 2400 MHz ~ 2483.5 MHz and 5725 MHz ~ 5850 MHz the result close to the limit by the above formula, so we select worst case power to calculate the exclusion power threshold.

5.5 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.

Statement

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