



中国认可
国际互认
检测
TESTING
CNAS-L4963

TEST REPORT

Applicant: Waylens Inc.
Address: 2711 Centerville Road - Suite 400, Wilmington,
Delaware, United States
Equipment Type: AI Recorder 3 Pro
Model Name: CAM20
Brand Name: Waylens Inc.
FCC ID: 2AKAF-CAM20
Contains FCC ID: 2AKAF-MDM01
Test Standard: 47 CFR Part 2.1091-2023
KDB 447498 D04 v01
Sample Arrival Date: N/A
Test Date: N/A
Date of Issue: May 18, 2026

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

**Prepared by:** Huang Xiaoqin**Reviewed by:** Cai Xueguo**Approved by:** Zhang Yanqing
(Laboratory Manager)

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>May 18, 2026</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION	3
1.1	Test Laboratory	3
1.2	Test Location	3
2	PRODUCT INFORMATION	4
2.1	Applicant Information	4
2.2	Manufacturer Information	4
2.3	General Description for Equipment under Test (EUT)	4
2.4	Technical Information	5
3	SUMMARY OF TEST RESULT	6
3.1	Test Standards	6
3.2	Limit Standards	6
4	DEVICE CATEGORY AND LEVELS LIMITS	7
5	ASSESSMENT RESULT	9
5.1	Output Power	9
5.2	Turn-up power	10
5.3	RF Exposure Evaluation Result	10
5.4	Collocated Power Density Calculation	11
5.5	Conclusion	11

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352. The laboratory is a testing organization accredited by ISED as a accredited testing laboratory. The company number is 29671 and CAB identifier number is CN0142.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Waylens Inc.
Address	2711 Centerville Road - Suite 400, Wilmington, Delaware, United States

2.2 Manufacturer Information

Manufacturer	Waylens Inc.
Address	2711 Centerville Road - Suite 400, Wilmington, Delaware, United States

2.3 General Description for Equipment under Test (EUT)

EUT Name	AI Recorder 3 Pro
Model Name Under Test	CAM20
Series Model Name	N/A
Description of Model name differentiation	N/A
Sample No.	N/A
Hardware Version	V0A
Software Version	V0A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	4G Network LTE B2/4/5/12/17/66 Bluetooth (BR+EDR+BLE 1M&2M) 2.4G WIFI 802.11b, 802.11g, 802.11n HT20 5G WIFI 802.11a, 802.11n(HT20/40)
-----------------------------------	--

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	LTE, WIFI, Bluetooth		
Frequency Range	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	2.4G WIFI	2412 ~ 2462 MHz	
	5G WIFI	5150 ~ 5250 MHz	
		5725 ~ 5850 MHz	
	Bluetooth	2402 ~ 2480 MHz	
Antenna Type	WWAN: PCB softboard Antenna WIFI: PCB softboard Antenna Bluetooth: PCB softboard Antenna		
Exposure Category	General Population/Uncontrolled Exposure		
Product Type	Mobile Device		

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	KDB 447498 D04 v01☆	447498 D04 Interim General RF Exposure Guidance v01

3.2 Limit Standards

No.	Identity	Document Title
1	47 CFR Part 2.1091-2023	Radiofrequency radiation exposure evaluation: mobile devices

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

According with FCC KDB 447498 D04, Appendix A, Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

When maximum available power each individual transmitting antenna within the same time averaging period is ≤ 1 mW, and the nearest parts of the antenna structures of the simultaneously operating transmitters are separated by at least 2 cm.

When the aggregate maximum available power of all transmitting antennas is ≤ 1 mW in the same time-averaging period.

5 ASSESSMENT RESULT

5.1 Output Power

LTE						
Mode	Band 2	Band 4	Band 5	Band 12	Band 17	Band 66
Conducted Power (dBm)	24.17	24.53	24.32	23.66	23.39	25.25
Antenna Gain (dBi)	3.01	1.59	-0.28	-3.80	-3.92	1.84
ERP/EIRP (dBm)	27.18	26.12	21.89	17.71	17.32	27.09
Note: This table listed the worst case conducted power value, please refer to RF test report No.Ti-CC26010187-501 for more details.						

Bluetooth		
Mode	BT Max	BLE Max
Conducted Power (dBm)	9.69	7.83
Antenna Gain (dBi)	2.93	2.93
EIRP (dBm)	12.62	10.76
Note: This table listed the worst case conducted power value, please refer to RF test report No. Ti-CC26010187-601 and Ti-CC26010187-602 for more details.		

WLAN	
Mode	2.4G WIFI Max
Conducted Power (dBm)	24.76
Antenna Gain (dBi)	2.93
EIRP (dBm)	27.69
Note: This table listed the worst case conducted power value, please refer to RF test report No.Ti-CC26010187-603 for more details.	

WLAN		
Mode	U-NII-1 (5150 - 5250 MHz)	U-NII-3 (5725 - 5850 MHz)
Conducted Power (dBm)	10.99	16.38
Antenna Gain (dBi)	8.56	8.24
EIRP (dBm)	19.55	24.62
Note: This table listed the worst case conducted power value, please refer to RF test report No.Ti-CC26010187-604 for more details.		

5.2 Turn-up power

Mode	Conducted Power Range (dBm)		EIRP Range (dBm)		ERP Range (dBm)	
LTE Band 2	23.00	25.00	26.01	28.01	23.86	25.86
LTE Band 4	24.00	26.00	25.59	27.59	23.44	25.44
LTE Band 5	23.00	25.00	/	/	20.57	22.57
LTE Band 12	23.00	25.00	/	/	17.05	19.05
LTE Band 17	22.00	24.00	/	/	15.93	17.93
LTE Band 66	24.00	26.00	25.84	27.84	23.69	25.69
Bluetooth	9.00	11.00	11.93	13.93	9.78	11.78
2.4G WIFI	24.00	26.00	26.93	28.93	24.78	26.78
5G WIFI (U-NII-1)	10.00	12.00	18.56	20.56	16.41	18.41
5G WIFI (U-NII-3)	15.00	17.00	23.24	25.24	21.09	23.09
Note1: ERP= EIRP -2.15dB.						
Note2: 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	Frequency(M Hz)	Distance (cm)	Maximum power (dBm)	Maximum power (mW)	Threshold Power (mW)	Power / Limit	Verdict
LTE Band 2	1850	20	25.86	385.48	3060.00	0.1260	Pass
LTE Band 4	1710	20	26.00	398.11	3060.00	0.1301	Pass
LTE Band 5	824	20	25.00	316.23	1680.96	0.1881	Pass
LTE Band 12	699	20	25.00	316.23	1425.96	0.2218	Pass
LTE Band 17	704	20	24.00	251.19	1436.16	0.1749	Pass
LTE Band 66	1710	20	26.00	398.11	3060.00	0.1301	Pass
Bluetooth	2402	20	11.78	15.07	3060.00	0.0049	Pass
2.4G WIFI	2412	20	26.78	476.43	3060.00	0.1557	Pass
5G WIFI (U-NII-1)	5150	20	23.41	219.28	3060.00	0.0717	Pass
5G WIFI (U-NII-3)	5725	20	23.09	203.70	3060.00	0.0666	Pass

5.4 Collocated Power Density Calculation

Evolution mode	Frequency(MHz)	Power Density/Limit	$\Sigma(\text{Power Density / Limit})$	Verdict
LTE Band12	699MHz ~ 716 MHz	0.2218	0.3775	Pass
2.4G WIFI	2412MHz ~ 2462MHz	0.1557		

Evolution mode	Frequency(MHz)	Power Density/Limit	$\Sigma(\text{Power Density / Limit})$	Verdict
LTE Band12	699MHz ~ 716 MHz	0.2218	0.2884	Pass
5G WIFI	5725MHz ~5852MHz	0.0666		

Evolution mode	Frequency(MHz)	Power Density/Limit	$\Sigma(\text{Power Density / Limit})$	Verdict
LTE Band12	699MHz ~ 716 MHz	0.2218	0.2267	Pass
Bluetooth	2402MHz ~2480MHz	0.0049		

Note:

1. $\Sigma(\text{Power / Limit})$: This is a summation of [(power for each transmitter/ antenna included in the simultaneous transmission)/ (corresponding Power limit)], for WWAN+2.4G WIFI, WWAN+5G WIFI, WWAN+Bluetooth.
2. Both of the WWAN+2.4G WIFI, WWAN+5G WIFI, WWAN+Bluetooth. can transmit simultaneously, the formula of calculated the Power is

$$\text{CP1} / \text{LP1} + \text{CP2} / \text{LP2} + \dots \text{etc.} < 1$$

CP = Calculation power
LP = Limit of power
3. Both of the 2.4GHz WIFI and 5GHz WIFI can't transmit simultaneously at same time.
4. The worst-case situation is 0.3775, which is less than "1". This confirmed that the device comply with FCC KDB 447498 D04 Power limit.
5. More power list please refer to RF test report.

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

1. The Testing Center guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.
3. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the test report stamp.
4. The test data and results are only valid for the tested samples provided by the customer.
5. This report shall not be partially reproduced without the written permission of the Testing Center.
6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--