

FCC TEST REPORT

Report No.....: AB26030241FW04
FCC ID.....: **2BVD9-OXBOT-R1**
Applicant.....: Zhuhai Oxbot Technology Co., Ltd.
Address.....: Room 3710, No. 99 Yunqi Street, Xiangzhou District, Zhuhai, China
Manufacturer.....: Zhuhai Oxbot Technology Co., Ltd.
Address.....: Room 3710, No. 99 Yunqi Street, Xiangzhou District, Zhuhai, China
Product Name.....: OXBOT R1
Trade Mark.....: OXBOT
Test Model.....: R1
Additional Model(s).....: R
Standard.....: FCC 47 CFR §1.1310;FCC 47 CFR §2.1093
KDB 447498 D01 General RF Exposure Guidance v06
Date of Receipt.....: 2026.03.23
Date of Test Date.....: 2026.03.23-2026.04.09
Date of Issue.....: 2026.04.09
Test Result.....: Pass

Compiled by:
(Printed Name + Signature)

Huaijie Li

Huaijie Li

Supervised by:
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David Huang

Approved by:
(Printed Name + Signature)

Jay Liu

Jay Liu

Testing Laboratory Name.....: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address.....: 101, Building B, Tuori New Energy Industrial Park, High-tech Park,
Tianliao Community, Yutang Street, Guangming District, Shenzhen
City, Guangdong Province, China

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EUT.....	: OXBOT R1
Test Model.....	: R1
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Test Result	Positive
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The test report merely corresponds to the test sample.

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REPORT VERSION

Version No.	Issue Date	Description
01	2026.04.09	Initial Issue

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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

Product Name:	OXBOT R1
Trade Mark:	OXBOT
Test Model:	R1
Additional Model(s):	R
Model Difference:	All models are the same circuit and RF module, except the model name
Hardware Version:	V1.0
Software Version:	V1.0
Power Supply:	Input:5V/1A
Battery:	3.7V/3500mAh*2
EUT Supports Function: (Provided by the customer)	Bluetooth & Wi-Fi & LoRa
Test Sample(s) Number:	AB26030241-01 (Engineer Sample) AB26030241-02 (Normal Sample)
Radio Specification Subject to this Report	
LoRa	
Frequency Range:	2441MHz
Channel Spacing:	2MHz
Channel Number(s):	1
Antenna Type:	FPC antenna with IPEX connector
Antenna Gain:	1.58dBi
BLE	
Bluetooth Version:	Bluetooth LE
Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Channel Number(s):	40
Antenna Type:	SMD Antenna
Antenna Gain:	4.3dBi
2.4G WiFi	
Radio Specification:	IEEE 802.11b/g/n
Frequency Range:	2412MHz~2462MHz for IEEE 802.11b/g/n(HT20) 2422MHz~2452MHz for IEEE 802.11n(HT40)
Modulation Type:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT40: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Channel Number(s):	11 Channels for IEEE 802.11b/g/n(HT20) 7 Channels for IEEE 802.11n(HT40)

Antenna Type:	SMD Antenna
Antenna Gain:	4.3dBi

1.2. DESCRIPTION OF TEST FACILITY

Test Lab: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address: 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

Tel.: +86 755 85250797

E-mail: aibo@aibonorm.com

Website: www.aibonorm.com

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

A2LA-Lab Certificate No.: 7514.01

Aibo Standard Technology (Shenzhen) Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC Accredited Lab.

Designation Number: CN1411

Test Firm Registration Number: 567066

ISED Wireless Device Testing Laboratories

CAB identifier: CN0185

Company Number: 33924

2. RF EXPOSURE EVALUATION

2.1 Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: “Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.²² The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.²³ “

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f} \text{ (GHz)}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$$

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

2.2 Evaluation Result

Band/ Mode	f (MHz)	Evaluation Distance (mm)	RF Output Power (dBm)	Tolerance (dBm)	Max Tune-up Power(dBm)	Max. Tune-up Power(mW)	Calc. thresholds	SAR Test Exclusion Threshold
BLE	2440	5	2.13	2(±1)	3	2.00	0.6233399	3.0

Mode	Frequency (MHz)	Power (dBuV/m)	Power (dBm)	Power (mW)	Calc. thresholds	SAR Test Exclusion Threshold
LoRa	2441	97.5	2.3	1.6982437	0.5306570	3

ESP32S3								
Band/ Mode	f (MHz)	Evaluation Distance (mm)	RF Output Power (dBm)	Tolerance (dBm)	Max Tune-up Power(dBm)	Max. Tune-up Power(mW)	Calc. thresholds	SAR Test Exclusion Threshold
2.4G WiFi	2452	5	6.97	6(±1)	7	5.01	1.5696045	3.0

ESP32-D0WDQ6-V3								
Band/ Mode	f (MHz)	Evaluation Distance (mm)	RF Output Power (dBm)	Tolerance (dBm)	Max Tune-up Power(dBm)	Max. Tune-up Power(mW)	Calc. thresholds	SAR Test Exclusion Threshold
2.4G WiFi	2412	5	6.96	6(±1)	7	5.01	1.5567492	3.0

ESP32-C3								
Band/ Mode	f (MHz)	Evaluation Distance (mm)	RF Output Power (dBm)	Tolerance (dBm)	Max Tune-up Power(dBm)	Max. Tune-up Power(mW)	Calc. thresholds	SAR Test Exclusion Threshold
2.4G	2462	5	6.96	6(±1)	7	5.01	1.5728019	3.0

WiFi								
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Note: The product does not support simultaneous emission in any mode.

2.3 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 D01 v06. No SAR test is required.

*****THE END*****