



Test Report No.: PSU-QBJ2512030110RF08



FCC TEST REPORT

(PART 96.47)

Applicant:	FOXX Development Inc
Address:	3480 Preston Ridge Road Suite 500, Alpharetta, GA 30005

Manufacturer or Supplier:	FOXX Development Inc
Address:	3480 Preston Ridge Road Suite 500, Alpharetta, GA 30005
Product:	Redcap Module
Brand Name:	FOXX
Model Name:	IQ50
FCC ID:	2AQRM-IQ50
Date of tests:	Dec. 05, 2025 ~Dec. 31, 2025

The tests have been carried out according to the requirements of the following standard:

☒ **47 CFR FCC Part 96**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Carl Xie Engineer / Mobile Department	Approved by Simon Wang Manager / Mobile Department
Date: Jan. 12, 2026	Date: Jan. 12, 2026

BOOMWAVE TEST (SHENZHEN) CO., LTD. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. The results documented in this report apply only the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. without written approval of BOOMWAVE TEST (SHENZHEN) CO., LTD., the test report shall not be reproduced except in full.



Test Report No.: PSU-QBJ2512030110RF08

TABLE OF CONTENTS

RELEASE CONTROL RECORD	3
SUMMARY OF TEST RESULTS	4
1 GENERAL INFORMATION	5
GENERAL DESCRIPTION OF EUT	5
2 TEST CONFIGURATION	6
2.1 DESCRIPTION OF TEST SETUP	6
2.2 TEST ENVIRONMENT	6
2.3 TEST RF CABLE	6
2.4 MODIFICATIONS	6
3 EQUIPMENT AND MEASUREMENT UNCERTAINTY	7
3.1 TEST EQUIPMENT LIST	7
3.2 MEASUREMENT UNCERTAINTY	7
4 TEST RESULTS	8
4.1 END USER DEVICE ADDITIONAL REQUIREMENTS.	8
LIMITS.....	8
TEST PROCEDURE	8
TEST SETUP	8
TEST SETTINGS	8
5 TEST SETUP PHOTOS	9
4 INFORMATION ON THE TESTING LABORATORIES	10
6 APPENDIX	11



Test Report No.: PSU-QBJ2512030110RF08

RELEASE CONTROL RECORD

ISSUE NO.	DESCRIPTION	DATE ISSUED
PSU-QBJ2512030110RF08	Original release	Jan. 12, 2026



Test Report No.: PSU-QBJ2512030110RF08

SUMMARY OF TEST RESULTS

47 CFR FCC PART 96		
FCC CLAUSE	TEST ITEM	RESULT
§96.47	End user device additional requirements	Compliance

*Test Lab Information Reference

Lab A:

Boomwave Test (Shenzhen) co., Ltd.

Lab Address:

Rm B38, Warehouse A5(Chiwan #1), #3 Chiwan 4th Rd, Chiwan Comm, Zhaoshang St, Nanshan Dist, Shenzhen, Guangdong, Shenzhen, China

Accredited Test Lab Cert 7607.01

The FCC Site Registration No. is 646781; The Designation No. is CN1429.



Test Report No.: PSU-QBJ2512030110RF08

1 GENERAL INFORMATION

GENERAL DESCRIPTION OF EUT

EUT Description:	Redcap Module		
Model:	FOXX		
Brand:	IQ50		
Hardware Version:	SRM813Q-NA_MB_V1.00		
Software Version:	SRM813Q-NA_2.0.2_EQ100		
Technical specification:			
Operation Frequency Range:	Band	All Frequency	CBSD Work Frequency
	LTE Band 48	3550 to 3700 MHz	3550 to 3700 MHz
Antenna Type:	External Antenna		
Antenna Gain:	Band	Ant (dBi)	
	LTE Band 48	-0.63dBi	
Remark: The above EUT's information was declared by applicant, please refer to the specifications or user manual for more detailed description.			



Test Report No.: PSU-QBJ2512030110RF08

2 TEST CONFIGURATION

2.1 DESCRIPTION OF TEST SETUP

Description	Manufacturer	Model	ID
LTE Base Station	Baicells	mBS31001	2AG32MBS3100196N
Router	TP Link	TL-WDR6300	--
Laptop	DELL	Latitude 3510	--
Development Board *	FOXX DEVELOPMENT INC	SLM828G_EVB_V1.01	--
Development Board *	FOXX DEVELOPMENT INC	SRM813Q_CORE_V1.01	--
Remark: * the information of table are provided by client.			

2.2 TEST ENVIRONMENT

Temperature:	24°C ~ 26°C
Relative Humidity	45-56 % RH Ambient
Voltage:	Nominal: 3.8Vdc

2.3 TEST RF CABLE

For all conducted test items: The offset level is set spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

2.4 MODIFICATIONS

No modifications were made during testing.



Test Report No.: PSU-QBJ2512030110RF08

3 EQUIPMENT AND MEASUREMENT UNCERTAINTY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, whichever is less, and where applicable is traceable recognized national standards.

3.1 TEST EQUIPMENT LIST

Radiated Emission					
Description	Manufacturer	Model	SN	Last Due	Cal Due
Signal Analyzer	Keysight	N9020A	US46470468	2025/03/14	2026/03/13

3.2 MEASUREMENT UNCERTAINTY

Parameter	U_{lab}
Frequency error	

Uncertainty figures are valid to a confidence level of 95%

4 TEST RESULTS

4.1 END USER DEVICE ADDITIONAL REQUIREMENTS.

LIMITS

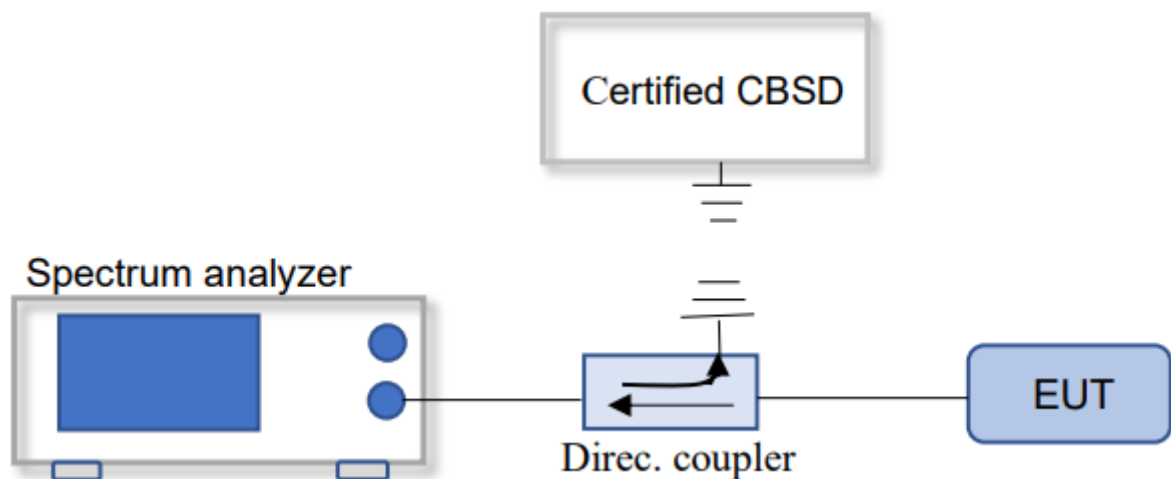
End User Devices will operate only after it receives authorization from an associated CBSD, including the frequencies and power limits for their operation.

End User Devices discontinues operation, changes Frequency, and changes its operational power level within 10 s of receiving instructions from its associated CBSD.

TEST PROCEDURE

KDB 940660 D01 Part 96 CBRS Eqpt v02, WINNF-TS-0122 V1.0.2

TEST SETUP



TEST SETTINGS

Based on the End user device additional requirements. During the test, use a certified Ruckus CBSD device (LTE Base Station FCC ID: 2AG32MBS3100196N) as a companion device.

1. Configure CBSD to operate at 3600MHz~3630MHz, and Power level 10dBm/MHz
2. Enable AP service from Ruckus Cloud management
3. Check End User Devices Frequency and Power
4. Disable AP service from Ruckus Cloud management, check whether the EUT stops transmitting within 10s
5. Repeat step 2 to step 4 with the CBSD operating at 3670MHz~3690MHz, and Power level 20dBm/MHz.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

Please Refer to Appendix Of this test report.



Test Report No.: PSU-QBJ2512030110RF08

5 TEST SETUP PHOTOS

Please Refer to Test Setup Photos of Part 96.47.



Test Report No.: PSU-QBJ2512030110RF08

4 INFORMATION ON THE TESTING LABORATORIES

We, Boomwave Test (Shenzhen) co., Ltd., were founded in 2025 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Boomwave Test (Shenzhen) co., Ltd.

Lab Address:

Rm B38, Warehouse A5(Chiwan #1), #3 Chiwan 4th Rd, Chiwan Comm, Zhaoshang St, Nanshan Dist, Shenzhen, Guangdong, Shenzhen, China

Accredited Test Lab Cert 7607.01

Shenzhen EMC/RF Lab:

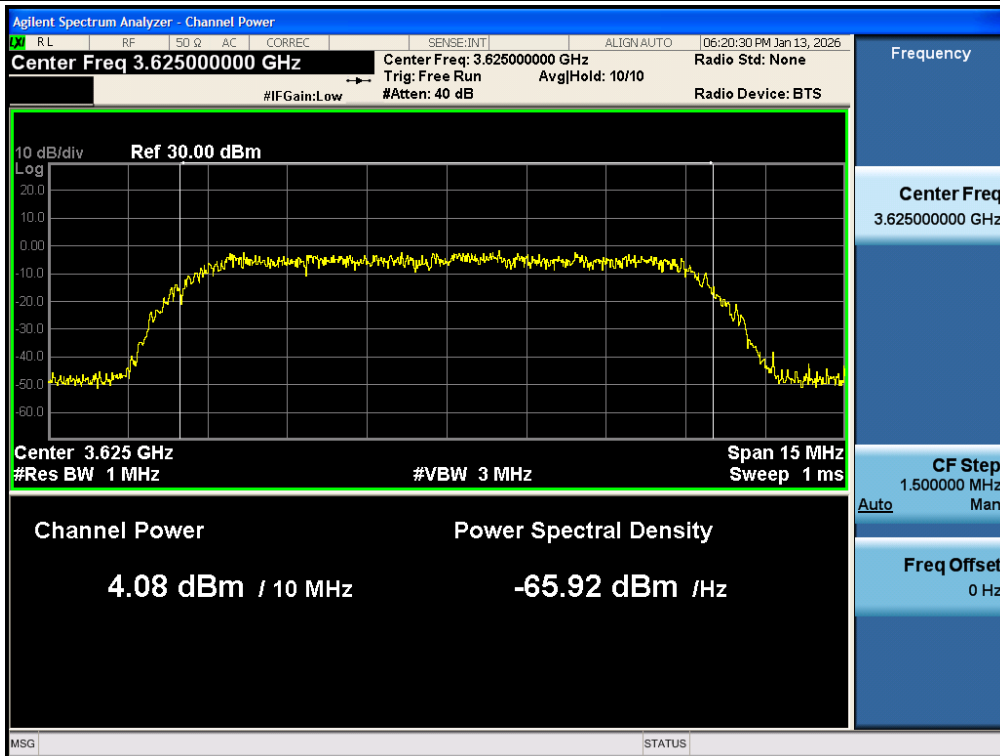
Mobile: +86 15118052731

Email: shimin.wang@boomwavelab.com

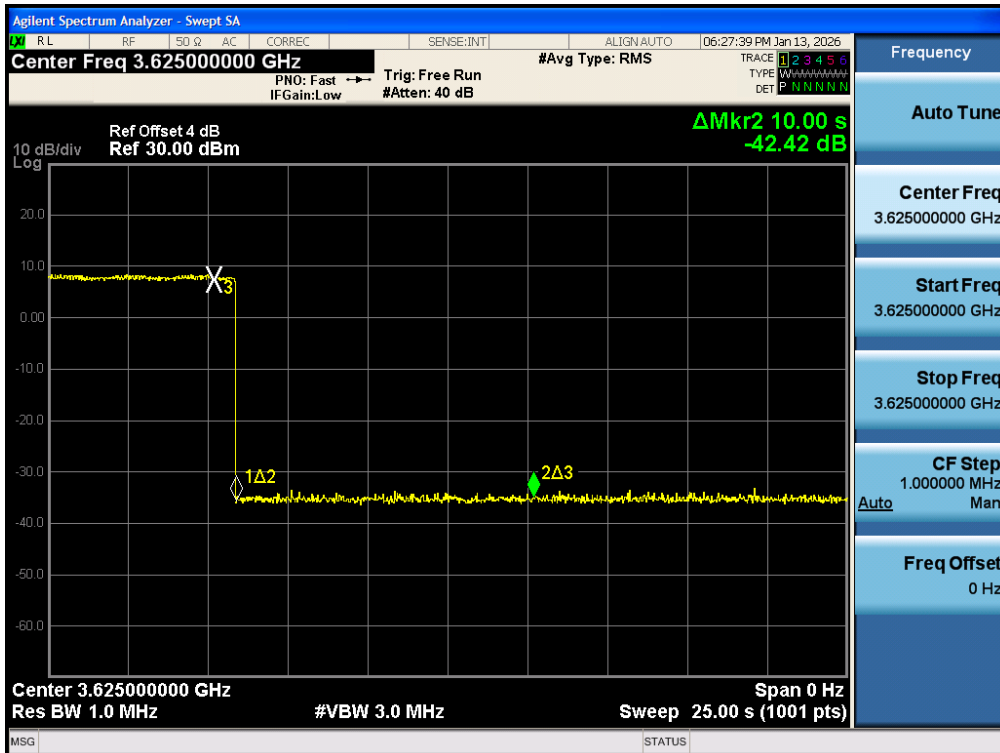


Test Report No.: PSU-QBJ2512030110RF08
6 APPENDIX

Bandwidth: 10MHz Setup with frequency 3625MHz and power level 10dBm/MHz



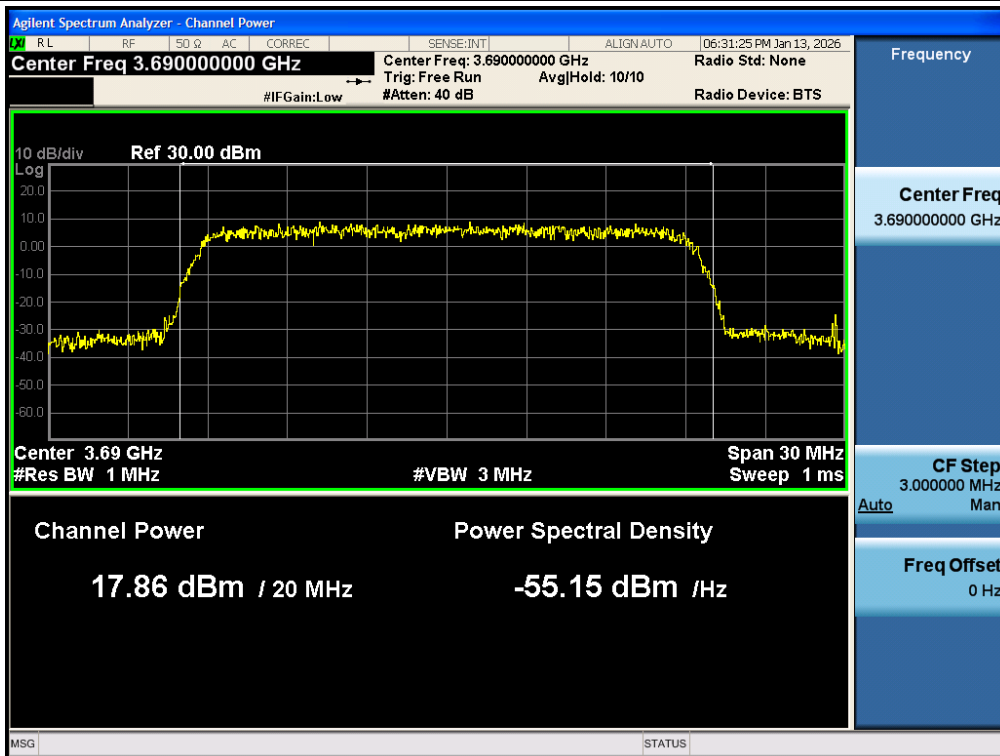
EUT stops transmission within 10 seconds of receiving instructions from its associated CBSD.



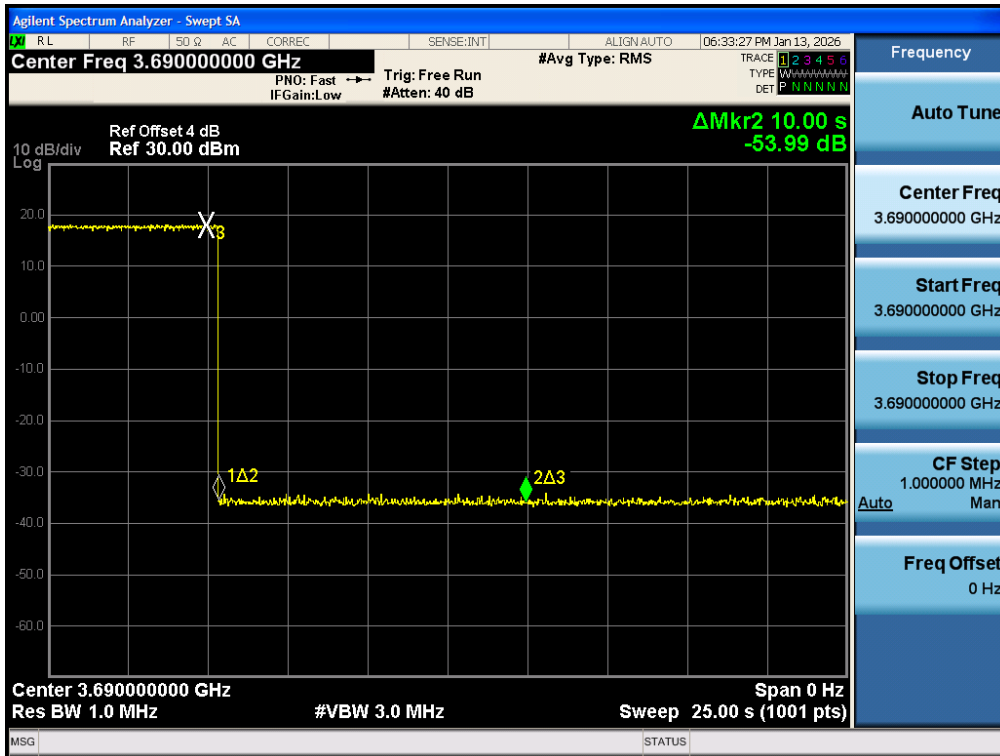


Test Report No.: PSU-QBJ2512030110RF08

Bandwidth: 20MHz Setup with frequency 3690MHz and power level 20dBm/MHz



EUT stops transmission within 10 seconds of receiving instructions from its associated CBSD.



---END---

Boomwave Test (Shenzhen) co., Ltd.

Rm B38, Warehouse A5(Chiwan #1), #3 Chiwan
4th Rd, Chiwan Comm, Zhaoshang St, Nanshan
Dist, Shenzhen, Guangdong, Shenzhen, China

Mobile: +86 15118052731

Email:shimin.wang@boomwavelab.com