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TEST REPORT

Application No.:	KSCR2403000314AT			
FCC ID:	XMR2024EG060KLA			
Applicant:	Quectel Wireless Solutions Co., Ltd.			
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China, 200233			
Manufacturer:	Quectel Wireless Solutions Co., Ltd.			
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China, 200233			
Equipment Under Test (EU	T):			
EUT Name:	LTE-A Cat 6 LGA Module			
Model No.:	EG060K-LA			
Trade Mark:	Quectel			
Standard(s):	FCC Part 96.47			
	FCC KDB 940660 D01 Part 96 CBRS Eqpt v03			
	WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification			
	WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines			
Date of Receipt:	2024-03-13			
Date of Test:	2024-03-14 to 2024-03-17			
Date of Issue:	2024-03-18			
Test Result:	Pass*			

* In the configuration tested, the EUT complied with the standards specified above.

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Revision Record					
Version	Description	Date	Remark		
00	Original	2024-03-18	/		

Authorized for issue by:		
Tested By	Maker Qi	
	Verry Hon	
Approved By	Terry Hou /Reviewer	



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2 Test Summary

ltem	Standard	Test Case ID	Result
End User Device additional requirement	96.47	/	Pass

The UUT is an End User Device. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC Part 96.47 FCC KDB 940660 D01 Part 96 CBRS Eqpt v03 WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.8V
Sample Type:	End User device
Transmitter Frequency Band:	LTE: B42/B43
Transmitter Frequency Range:	LTE B42 3400~3600MHz
	LTE B43 3600~3800MHz
Antenna Type:	External Antenna
Hardware Version:	EG060KLACAR01A01M4G
Software Version:	R1.0
Antenna Gain:	LTE B42: -4.64dBi(Provided by the manufacturer)
	LTE B43: -4.11dBi(Provided by the manufacturer)

4.2 Measurement Uncertainty

No.	ltem	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	RF conducted power	± 0.75dB
3	Temperature test	± 1°C
4	Humidity test	± 3%
5	Supply voltages	± 1.5%
6	Time	± 3%

4.3 Description of Support Units

For LTE test:

Description	Manufacturer	Manufacturer Model No.	
EPC	Lanner Electronics Inc.	LICA-1513A	LR202002004052
Router TP-LINK		TL-R860+	1175379002425
Base station	Baicells	pBS31010 (FCC ID: 2AG32PBS31010)	12020002912122B0001



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4.4 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. internal working 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. Sample source: sent by customer.

4.5 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.

- **4.6** Deviation from Standards None
- **4.7** Abnormalities from Standard Conditions None



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5 Equipment List

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Laptop	Lenovo	Y510P	HFL000026	N/A	N/A
Spectrum Analyzer	KEYSIGHT	N9020A	KUS2001M00 1-2	2023/8/24	2024/8/23
Shield Room	YanChuang	N/A	KS301115-2	N/A	N/A
Coaxial Cable	Thermax	N/A	13	2023/9/15	2024/9/14
Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R.	N.C.R.
Humidity / Temperature Indicator	Renke	RS-WS-N01- 6J	1032844	2023/3/22	2024/3/21



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6 Test Method and Environment

6.1 End User Device Conformance and Performance

Test Requirement:FCC Part 96.47Test Method:WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines

6.2 Test Environment

Environmental Conditions: 25°C, 65%RH

6.3 Test Requirement

FCC Part 96.47

a). End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.

b). An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.



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6.4 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, use the certified Base station CBSD (FCC ID: 2AG32PBS31010) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

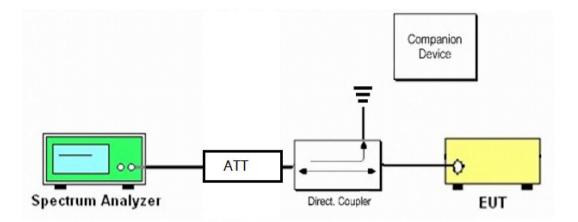
- 1. Setup with frequency 3550-3650MHz and power level 14dBm/MHz;
- 2. Enable CBSD service ;
- 3. Check EUD Tx Frequency and power;
- 4. Disable AP service ;
- 5. Check EUD stops transmission within 10seconds;
- 6. Setup with 3600-3700MHz & power level 8dBm/MHz;
- 7. Enable CBSD service;
- 8. Check EUD Tx Frequency and power;
- 9. Disable CBSD service;
- 10. Check EUD stops transmission within 10seconds.



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6.5 Test Setup



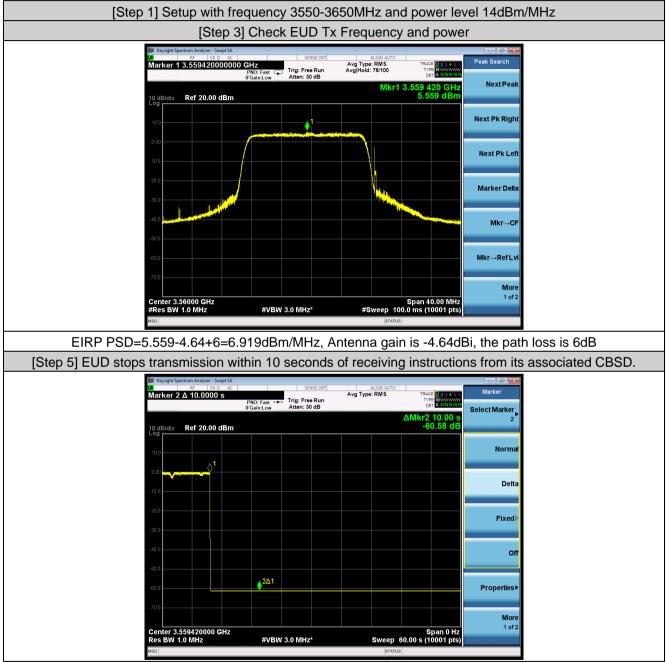
End User Device as UUT, the companion device is certified CBRS (FCC ID: 2AG32PBS31010)



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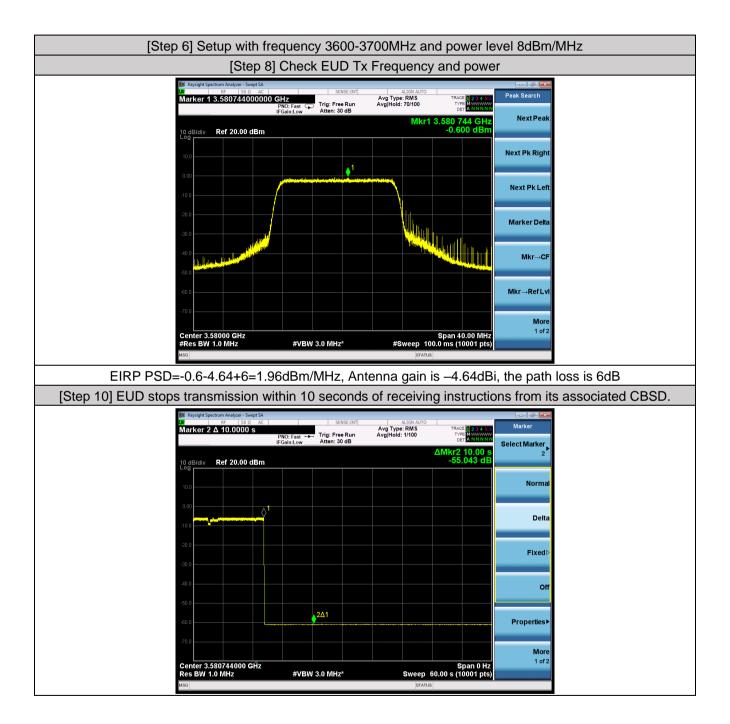
6.6 Test Result





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7 Test Setup Photographs

Refer to Appendix - Test Setup Photo for KSCR2403000314AT.

- End of the Report -