# TEST REPORT

| | |
|---|---|
| **Application No.:** | KSCR2405000902AT |
| **FCC ID:** | XMR2024RG620TNA |
| **Applicant:** | Quectel Wireless Solutions Co., Ltd. |
| **Address of Applicant:** | Building 5, Shanghai Business Park Phase III (Area B),<br>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),<br>No.1016 Tianlin Road, Minhang District, Shanghai, China 200233 |
| **Equipment Under Test (EUT):** | |
| **EUT Name:** | 5G Sub-6 GHz LGA Module |
| **Model No.:** | RG620T-NA |
| **Trade Mark:** | Quectel |
| **Standard(s):** | FCC Part 96.47<br>FCC KDB 940660 D01 Part 96 CBRS Eqpt v03<br>WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification<br>WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines |
| **Date of Receipt:** | 2023-03-09(for report KSCR2303000420AT) |
| **Date of Test:** | 2023-03-12 to 2023-04-13(for report KSCR2303000420AT) |
| **Date of Issue:** | 2024-05-23 |
| **Test Result:** | **Pass*** |

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

Eric Lin
Laboratory Manager

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| Revision Record | | | |
|---|---|---|---|
| **Version** | **Description** | **Date** | **Remark** |
| 00 | 1.Software turns off Part 96 bands for LTE B42/43 and N77/78.<br>2. Changed FCC ID. | 2024-05-23 | Based on KSCR230300042001 |
| | | | |
| | | | |

| | | | | |
|---|---|---|---|---|
| **Authorized for issue by:** | | | | |
| | | Damon zhou | | |
| | | **Damon Zhou / Project Engineer** | | |
| | | Eric Lin | | |
| | | **Eric Lin / Reviewer** | | |

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# 2 Test Summary

| Item | 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

Note: This report was an additional report copied from the report KSCR230300042001, new report changed FCC ID and software turns off Part 96 bands for LTE B42/43 and N77/78, but it deemed to fulfil the RF requirements without testing.

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# 4 General Information

## 4.1 Details of E.U.T.

| | |
|---|---|
| Power supply: | DC3.8V |
| Sample Type: | End User device |
| Transmitter Frequency Band: | LTE: Band 48<br>5GNR: n48 |
| Transmitter Frequency Range: | Band 48/n48:3550~3700MHz |
| Antenna Type: | External Antenna |
| Antenna information: | Band 48(SISO): Ant0<br>N48(UL MIMO): Ant0&Ant6 |
| Hardware Version: | R2.0 |
| Software Version: | RG620TNA00AAR02A02G55_OCPU |
| Antenna Gain: | Ant0: -4.29dBi (Provided by the manufacturer)<br>Ant6: -4.29dBi (Provided by the manufacturer) |

## 4.2 Measurement Uncertainty

| No. | Item | 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% |

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## 4.3 Description of Support Units

**For LTE test:**

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

**For 5GNR test:**

| Description | Manufacturer | Model No. | Serial No. |
|---|---|---|---|
| 5GC | astir | astir_5GC | A372768X0507398 |
| Router | TP-Link | TL-R860+ | 1175379002425 |
| Base Band Unit | BTI | sCELL- G52091NAX | L603JESE1I |
| Remote Radio Unit | BTI | RU4370<br>(FCC ID: WBK-RU4370) | C0214921000004S |

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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).

## 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 | KUS2001M001-2 | 2022/8/22 | 2023/8/21 |
| Shield Room | YanChuang | N/A | KS301115-2 | N/A | N/A |
| Coaxial Cable | Thermax | N/A | 13 | 2022/9/16 | 2023/9/15 |
| Attenuator | Mini-Circuits | NAT-6-2W | 15542-1 | N.C.R. | N.C.R. |
| Humidity / Temperature Indicator | Renke | RS-WS-N01-6J | 1032844 | 2022/4/1 | 2023/3/31 |

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# 6 Test Method and Environment

## 6.1 End User Device Conformance and Performance

Test Requirement: FCC Part 96.47

Test 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 LTE Base station CBSD (FCC ID: 2AG32PBS31010) and 5GNR Base station CBSD (FCC ID: WBK-RU4370) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

For LTE:

1. Setup with frequency 3550-3570MHz and power level 20dBm/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 3640-3660MHz & 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.

For 5G NR:

1. Setup with frequency 3550-3650MHz and power level 20dBm/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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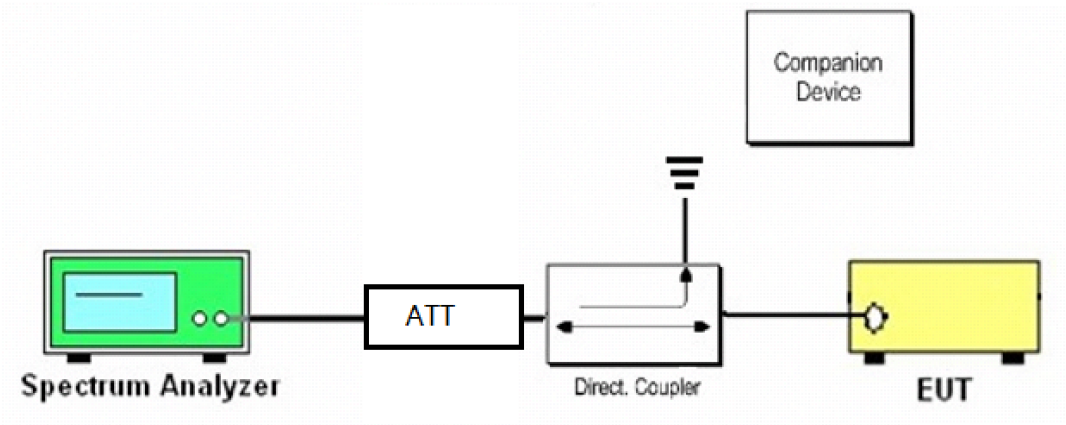
## 6.5 Test Setup




For LTE:

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

For 5G NR:

End User Device as UUT, the companion device is certified CBRS (FCC ID: WBKRU4370)

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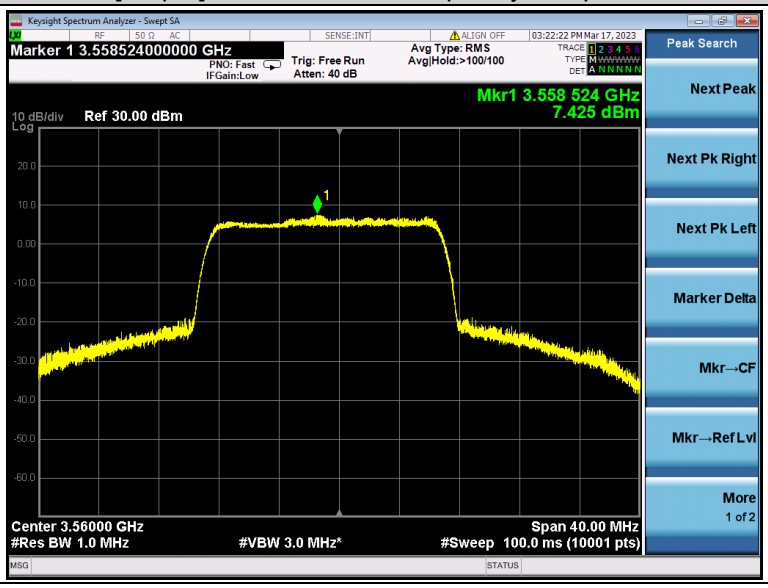
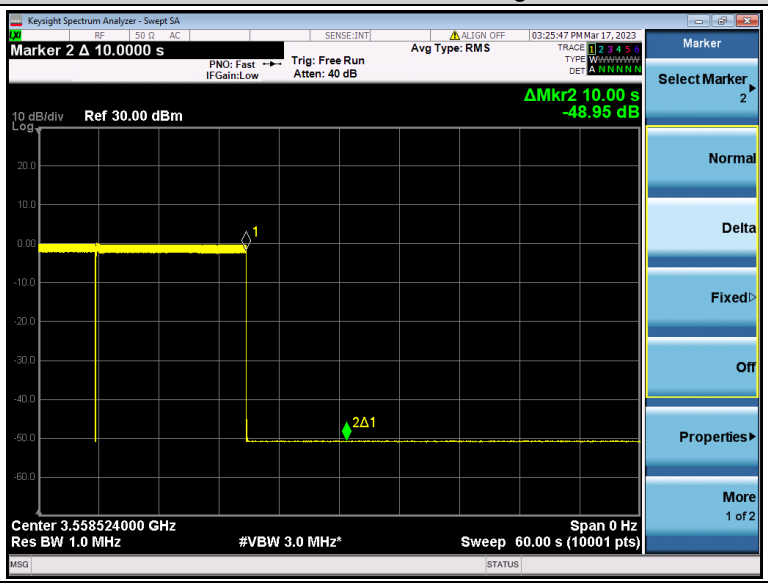
## 6.6 Test Result

For LTE

| [Step 1] Setup with frequency 3550-3570MHz and power level 20dBm/MHz |
|---|
| [Step 3] Check EUD Tx Frequency and power |
|  |
| EIRP PSD=7.425-4.29+4.5=7.635dBm/MHz, Antenna gain is -4.29dBi,the path loss is 4.5dB |
| [Step 5] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD. |
|  |





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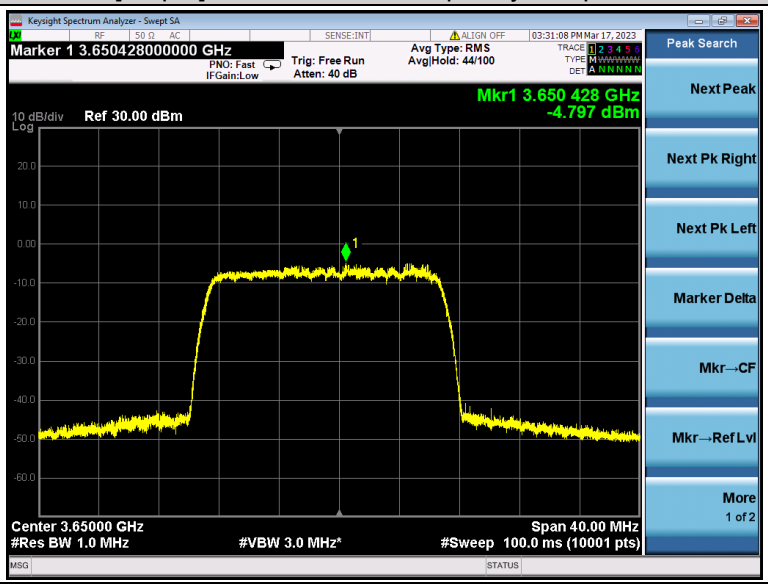
[Step 6] Setup with frequency 3640-3660MHz and power level 8dBm/MHz

[Step 8] Check EUD Tx Frequency and power




EIRP PSD=-4.797-4.29+4.5=-4.587dBm/MHz, Antenna gain is -4.29dBi,the path loss is 4.5dB

[Step 10] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.

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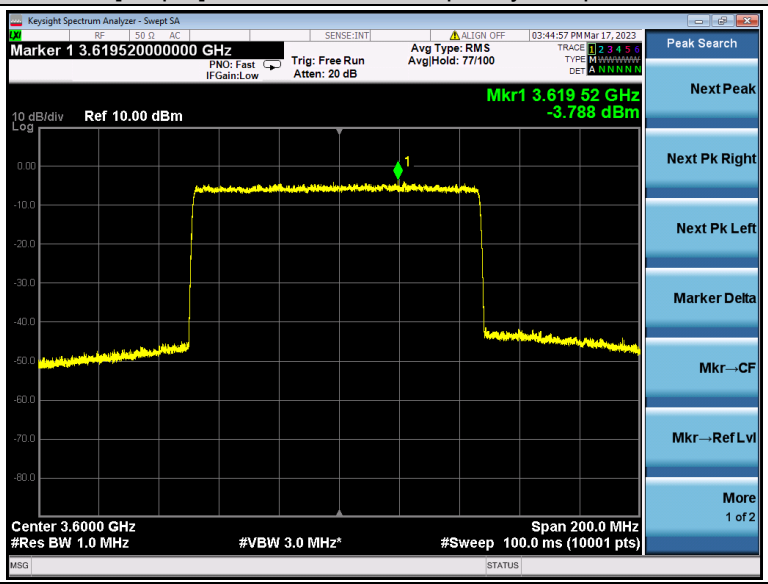
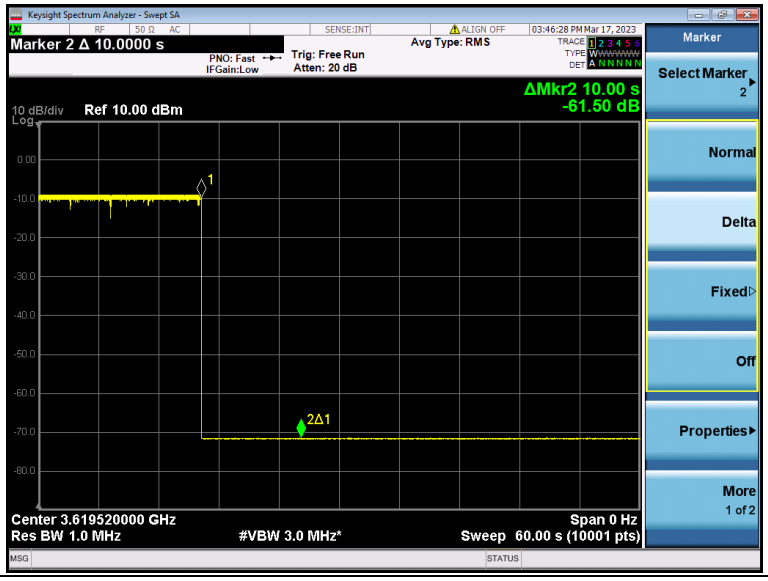
For 5GNR

| [Step 1] Setup with frequency 3550-3650MHz and power level 20dBm/MHz |
|---|
| [Step 3] Check EUD Tx Frequency and power |
|  |
| EIRP PSD=-3.788-4.29+4.5+3=-0.578dBm/MHz, Antenna gain is -4.29dBi,the path loss is 4.5dB, the MIMO Factor is 3dB |
| [Step 5] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD. |
|  |





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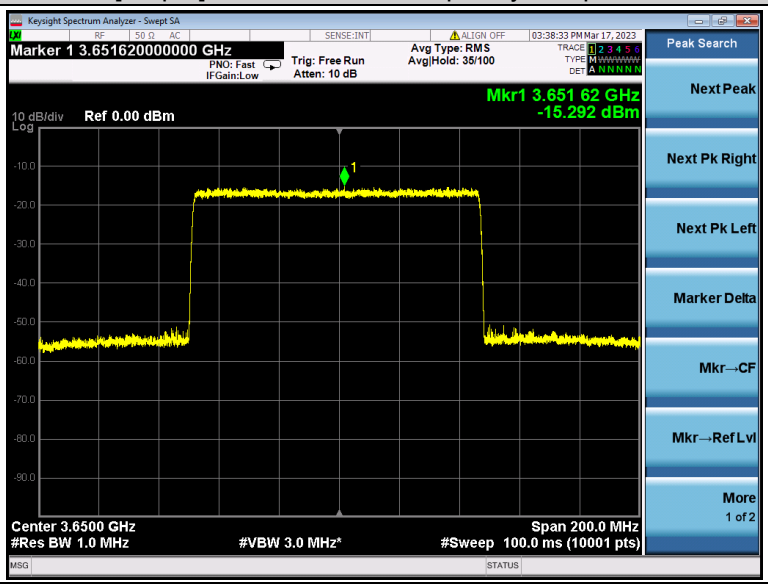
| [Step 6] Setup with frequency 3600-3700MHz and power level 8dBm/MHz |
|---|
| [Step 8] Check EUD Tx Frequency and power |
|  |
| EIRP PSD=-15.292-4.29+4.5+3=-12.082dBm/MHz, Antenna gain is -4.29dBi,the path loss is 4.5dB, the MIMO Factor is 3dB |
| [Step 10] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD. |
| |





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# 7 Test Setup Photographs

Refer to Appendix - Test Setup Photo for KSCR2405000902AT.

- End of the Report -

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