



Compliance Certification Services (Kunshan) Inc.  
Shenzhen Branch

Report No.: FYCR220600021102

Page: 1 of 29

## TEST REPORT

**Application No.:** FYCR2206000211CR  
**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 (EUT):**  
**EUT Name:** 5G Sub-6 GHz M.2 Module  
**Model No.:** Quectel  
**Trade mark:** RM520N-GL  
**FCC ID:** XMR2022RM520NGL  
**Standards:** 47 CFR Part 96E  
**Date of Receipt:** 2022-05-15  
**Date of Test:** 2022-05-22 to 2022-07-22  
**Date of Issue:** 2022-08-29

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

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

Kidd Yang  
EMC Laboratory Manager



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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2022-08-29 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                                 |  |                                   |  |
|---------------------------------|--|-----------------------------------|--|
| <b>Authorized for issue by:</b> |  |                                   |  |
|                                 |  | <i>Tree Zhan</i>                  |  |
|                                 |  | <b>Tree Zhan/Project Engineer</b> |  |
|                                 |  | <i>Winkey Wang</i>                |  |
|                                 |  | <b>Winkey Wang/Reviewer</b>       |  |



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# 1 Test Summary

| Test Item  | FCC Rule No.    | Requirements   | Verdict |
|--|-----------------|--|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §96.41 | EIRP ≤ 23dBm/10MHz (N48)   | PASS    |
| Peak-Average Ratio                               | §96.41          | ≤13dB  | PASS    |
| Modulation Characteristics                       | §2.1047         | Digital modulation   | PASS    |
| Bandwidth  | §96.41          | OBW: No limit<br>EBW: No limit   | PASS    |
| Band Edge Compliance                             | §2.1051, §96.41 | 0-10 MHz: -13 dBm;<br>10-operating band edge MHz: -25 dBm;<br>other: -40 dBm | PASS    |
| Spurious emissions at antenna terminals          | §2.1051, §96.41 | ≤ -40dBm (N48)   | PASS    |
| Field strength of spurious radiation             | §2.1051, §96.41 | ≤ -40dBm (N48)   | PASS    |
| Frequency stability                              | §2.1055,        | Fundamental emission stays within authorized frequency block                 | PASS    |



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### 3 General Information

#### 3.1 Details of E.U.T.

Power supply: DC3.7V  
 5G NR: Support UL 2\*2 MIMO  
 Frequency Range: 3550MHz to 3700MHz  
 Modulation Type: UL: Pi/2-BPSK, DFT-QPSK, 16QAM, 64QAM, 256QAM,  
 CP-QPSK, 16QAM, 64QAM, 256QAM  
 5G NR Operation 48  
 Frequency Band:  
 Sample Type: End User Device  
 Antenna Type: Monopole  
 Antenna Gain: -6.1dBi

ENDC:

DC\_48A\_n25A;DC\_48A\_n71A;DC\_48A\_n5A  
 DC\_48A\_n66A;DC\_2A\_n48A;DC\_5A\_n48A  
 DC\_13A\_n48A;DC\_66A\_n48A;DC\_48A\_n12A;  
 NR UL CA:n48A-n66A;n2A-n48A;n5A-n48A;n48A-n70A  
 n48A-n71A;n25A-n48A;

ENDC& NRCA Only test RSE, report only show worst mode

#### 3.2 Description of Support Units

The EUT has been tested as an independent unit.

#### 3.3 Measurement Uncertainty

| No. | Item  | Measurement Uncertainty |
|-----|---|-------------------------|
| 1   | Conducted Emission<br>at mains port using AMN | 2.4dB (9kHz to 150kHz)  |
|     |   | 2.2dB (150kHz to 30MHz) |
| 2   | Radio Frequency                               | 8.4 x 10 <sup>-8</sup>  |
| 3   | Timeout                                       | 2s                      |



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|    |                                 |                     |
|----|---------------------------------|---------------------|
| 4  | Occupied Bandwidth              | 3%                  |
| 5  | RF power density                | 2.9dB               |
| 6  | RF Radiated power               | 4.2dB (Below 1GHz)  |
|    |                                 | 4.1dB (Above 1GHz)  |
| 7  | Radiated Spurious emission test | 4.2dB (Below 30MHz) |
|    |                                 | 4.6dB (30MHz-1GHz)  |
|    |                                 | 4.8dB (1GHz-18GHz)  |
|    |                                 | 5.5dB (Above 18GHz) |
| 8  | Temperature test                | 1°C                 |
| 9  | Humidity test                   | 3%                  |
| 10 | Supply voltages                 | 1.5%                |
| 11 | Time                            | 3%                  |

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 3.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

### 3.5 Deviation from Standards

None

### 3.6 Abnormalities from Standard Conditions

None



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## 4 Equipment List

| RF conducted test                           |                              |               |               |            |               |
|---|------------------------------|---------------|---------------|------------|---------------|
| Test Equipment                              | Manufacturer                 | Model No.     | Inventory No. | Cal. Date  | Cal. Due date |
| Programmable DC Source                      | Chroma                       | 62024P-80-60  | SEM011-09     | 2021/07/13 | 2022/07/12    |
|   |                              |               |               | 2022/07/12 | 2023/07/11    |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002       | SEM002-15     | 2021/07/13 | 2022/07/12    |
|   |                              |               |               | 2022/07/12 | 2023/07/11    |
| Spectrum Analyzer                           | Rohde & Schwarz              | FSU43         | SEM004-08     | 2021/07/13 | 2022/07/12    |
|   |                              |               |               | 2022/07/12 | 2023/07/11    |
| Measurement Software                        | TST                          | TST PASS V2.0 | N/A           | N/A        | N/A           |
| Attenuator                                  | Huber+Suhner                 | 6620_SMA-50-1 | SEM021-09     | 2021/07/13 | 2022/07/12    |
|   |                              |               |               | 2022/07/12 | 2023/07/11    |
| Universal Radio Communication Tester        | Rohde & Schwarz              | CMW 500       | SEM010-03     | 2022/03/29 | 2023/03/28    |
| Radio Communication Test Station            | Anritsu                      | MT8000A       | SEM010-03     | 2022/03/25 | 2023/03/24    |
| Power Sensor                                | KEYSIGHT                     | U2021XA       | SEM009-15     | 2021/07/13 | 2022/07/12    |
|   |                              |               |               | 2022/07/12 | 2023/07/11    |

| RE in Chamber            |                 |                   |               |            |               |
|--------------------------|-----------------|-------------------|---------------|------------|---------------|
| Test Equipment           | Manufacturer    | Model No.         | Inventory No. | Cal. Date  | Cal. Due date |
| Trilog-Broadband Antenna | Schwarzbeck     | VULB9168          | SEM003-33     | 2021/9/25  | 2024/9/24     |
| MXE EMI receiver         | Agilent         | N9038A            | SEM004-05     | 2021/07/13 | 2022/07/12    |
|                          |                 |                   |               | 2022/07/12 | 2023/07/11    |
| Pre-amplifier            | HP              | 8447D             | SEM005-02     | 2021/07/13 | 2022/07/12    |
|                          |                 |                   |               | 2022/07/12 | 2023/07/11    |
| Spectrum Analyzer        | Rohde & Schwarz | 101288            | SEM004-08     | 2021/07/13 | 2022/07/12    |
|                          |                 |                   |               | 2022/07/12 | 2023/07/11    |
| Low Noise Amplifier      | CLAVIO          | BDLNA-0118-352810 | SEM005-05     | 2021/07/13 | 2022/07/12    |
|                          |                 |                   |               | 2022/07/12 | 2023/07/11    |



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|                                      |                                    |                   |           |            |            |
|--------------------------------------|------------------------------------|-------------------|-----------|------------|------------|
| Substitution Antenna                 | Schwarzbeck                        | VULB9168          | SEM003-18 | 2019/08/08 | 2022/08/07 |
| Signal Generator(9kHz-40GHz)         | N5173B                             | MY53270267        | Agilent   | 2021/07/13 | 2022/07/12 |
|                                      |                                    |                   |           | 2022/07/12 | 2023/07/11 |
| Pre-amplifier                        | HP                                 | 8447D             | SEM005-02 | 2021/07/13 | 2022/07/12 |
|                                      |                                    |                   |           | 2022/07/12 | 2023/07/11 |
| Broad-Band Horn Antenna              | Schwarzbeck                        | BBHA 9170         | SEM003-15 | 2021/7/11  | 2024/7/10  |
| Broad-Band Horn Antenna              | Schwarzbeck                        | BBHA 9120D        | SEM003-32 | 2021/9/26  | 2024/9/25  |
| Double-ridged waveguide horn         | ETS-LINDGREN                       | 3117              | SEM003-34 | 2021/9/25  | 2024/9/24  |
| Spectrum Analyzer                    | Rohde & Schwarz                    | 101288            | SEM004-08 | 2021/07/13 | 2022/07/12 |
|                                      |                                    |                   |           | 2022/07/12 | 2023/07/11 |
| Low Noise Amplifier                  | CLAVIO                             | BDLNA-0118-352810 | SEM005-05 | 2021/07/13 | 2022/07/12 |
|                                      |                                    |                   |           | 2022/07/12 | 2023/07/11 |
| Pre-amplifier                        | Compliance Directions Systems Inc. | PAP-2640-50       | SEM005-08 | 2021/07/13 | 2022/07/12 |
|                                      |                                    |                   |           | 2022/07/12 | 2023/07/11 |
| Pre-amplifier                        | Rohde & Schwarz                    | CH14-H052         | SEM005-17 | 2021/07/13 | 2022/07/12 |
|                                      |                                    |                   |           | 2022/07/12 | 2023/07/11 |
| Substitution Antenna                 | ETS-Lindgren                       | 3142C             | SEM003-01 | 2020/06/26 | 2023/06/25 |
| Universal Radio Communication Tester | Rohde & Schwarz                    | CMW 500           | SEM010-03 | 2022/03/29 | 2023/03/28 |
| Radio Communication Test Station     | Anritsu                            | MT8000A           | SEM010-03 | 2022/03/25 | 2023/03/24 |

**General used equipment**

| Equipment                       | Manufacturer | Model No. | Inventory No. | Cal Date   | Cal Due Date |
|---------------------------------|--------------|-----------|---------------|------------|--------------|
| Humidity/ Temperature Indicator | Mingle       | TH607     | SEM002-22     | 2021/07/13 | 2022/07/12   |
|                                 |              |           |               | 2022/07/12 | 2023/07/11   |
| Humidity/ Temperature           | Mingle       | TH607     | SEM002-23     | 2021/07/13 | 2022/07/12   |



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|           |       |      |           |            |            |
|-----------|-------|------|-----------|------------|------------|
| Indicator |       |      |           | 2022/07/12 | 2023/07/11 |
| Barometer | DUMAI | DYM3 | SEM002-24 | 2021/07/13 | 2022/07/12 |
|           |       |      |           | 2022/07/12 | 2023/07/11 |



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## 5 Radio Spectrum Matter Test Results

### 5.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §96.41  
Test Method: ANSI C63.26, KDB 971168 D01 v03  
Limit: EIRP ≤ 23dBm/10MHz (N48)

#### 5.1.1 E.U.T. Operation

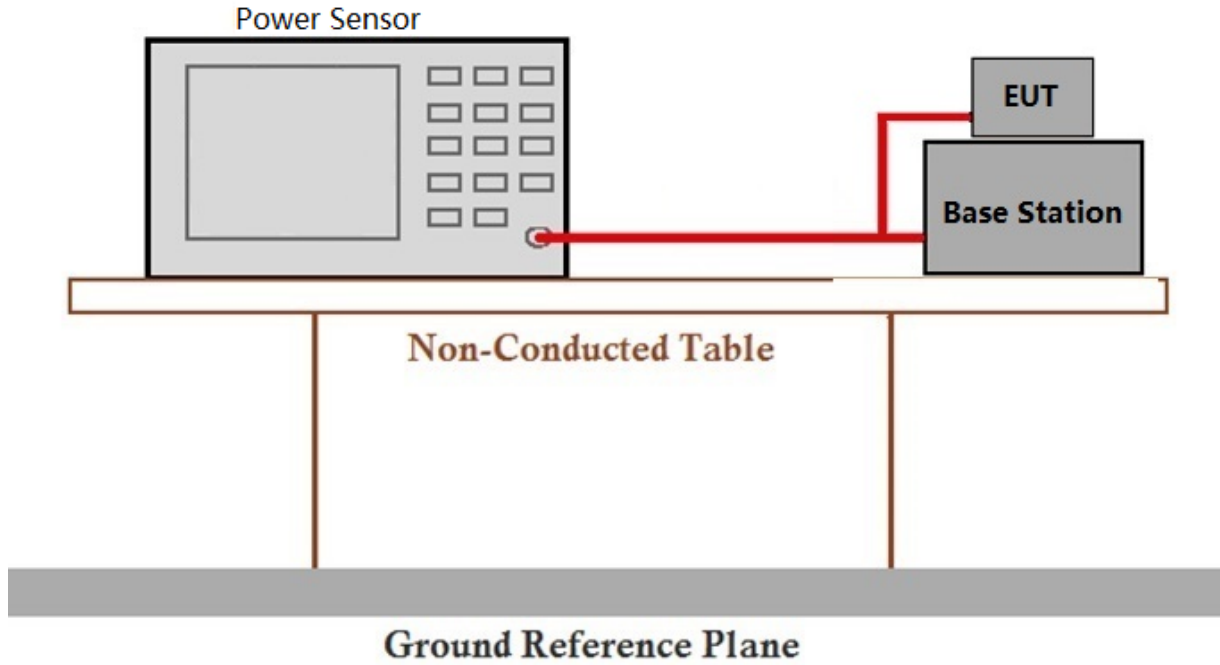
Operating Environment:

Temperature: 23.7 °C Humidity: 56.9 % RH Atmospheric Pressure: 1010 mbar  
Test mode: 01: Tx mode: Keep the EUT in transmitting mode in 5G NR mode

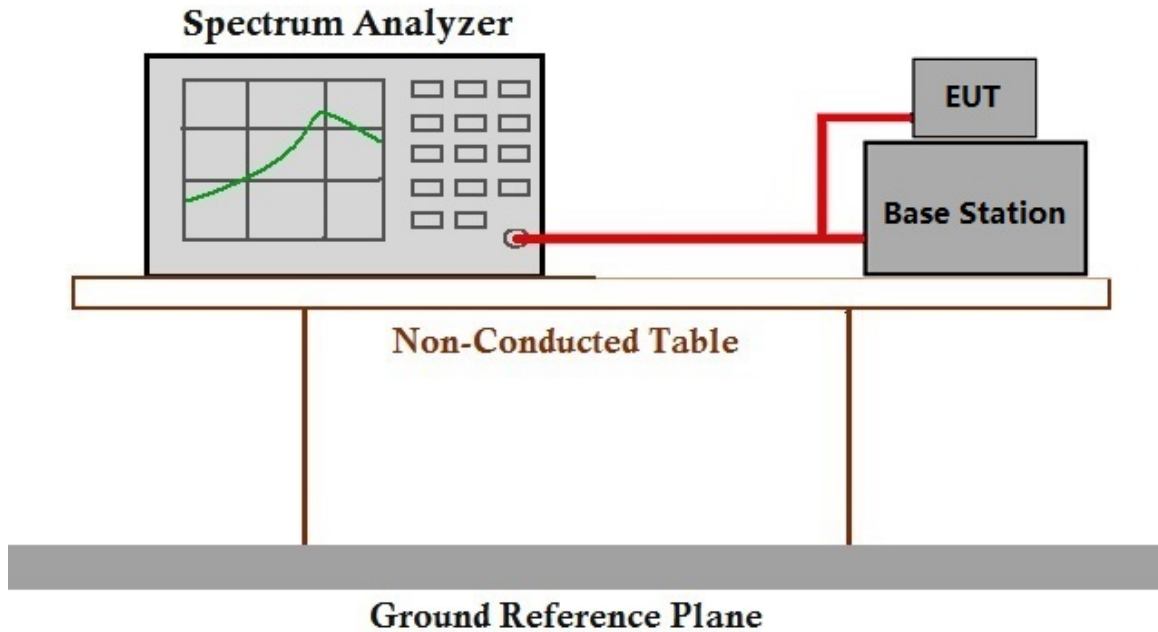


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## 5.1.2 Test Setup Diagram



Test setup for Power measurement



Test setup for PSD measurement



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### 5.1.3 Measurement Data

Please refer to Appendix A-Output power



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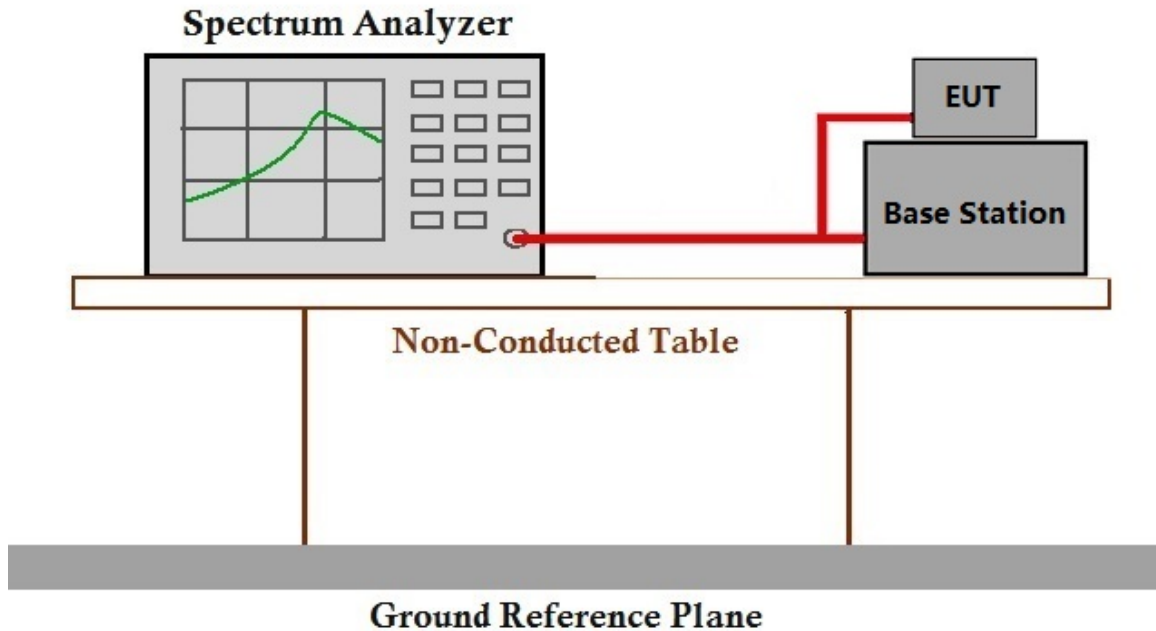
## 5.2 Peak-Average Ratio

Test Requirement: §96.41  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: ≤13dB

### 5.2.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.7 °C Humidity: 56.9 % RH Atmospheric Pressure: 1010 mbar  
 Test mode: 01: Tx mode: Keep the EUT in transmitting mode in 5G NR mode

### 5.2.2 Test Setup Diagram



### 5.2.3 Measurement Data

Please refer to Appendix B- Peak-Average Ratio



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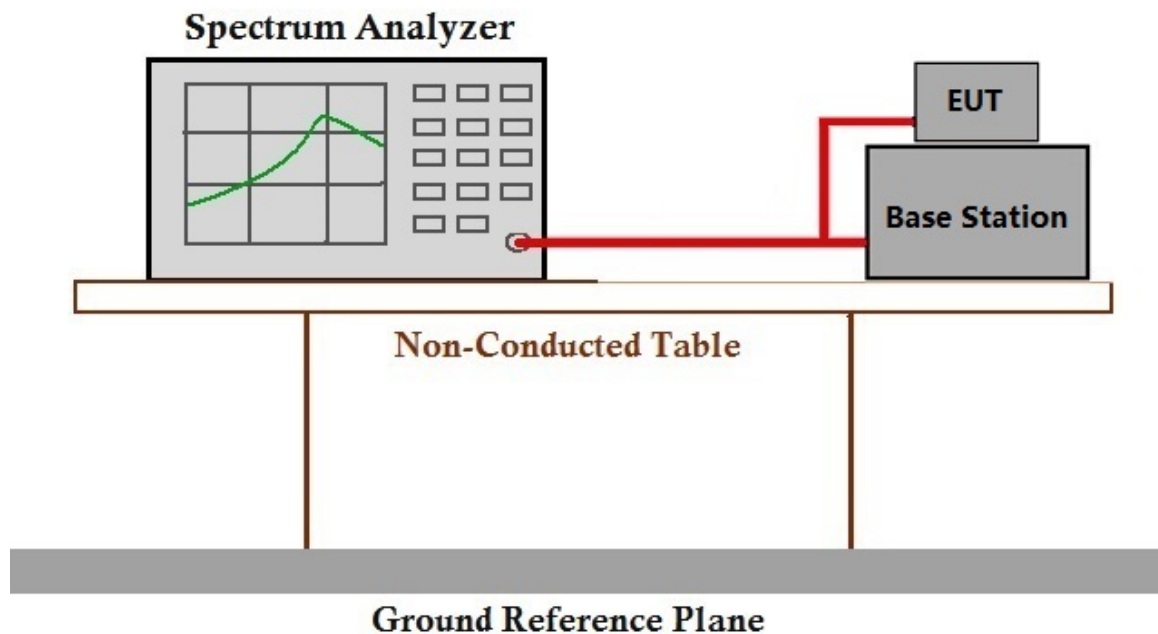
### 5.3 Bandwidth

Test Requirement: §2.1049(h)  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: OBW: No limit  
 EBW: No limit

#### 5.3.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.7 °C Humidity: 56.9 % RH Atmospheric Pressure: 1010 mbar  
 Test mode: 01: Tx mode: Keep the EUT in transmitting mode in 5G NR mode

#### 5.3.2 Test Setup Diagram



#### 5.3.3 Measurement Data

Please refer to Appendix C- Bandwidth



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## 5.4 Band Edge Compliance

Test Requirement: §2.1051, §96.41

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

### 5.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 56.9 % RH Atmospheric Pressure: 1010 mbar

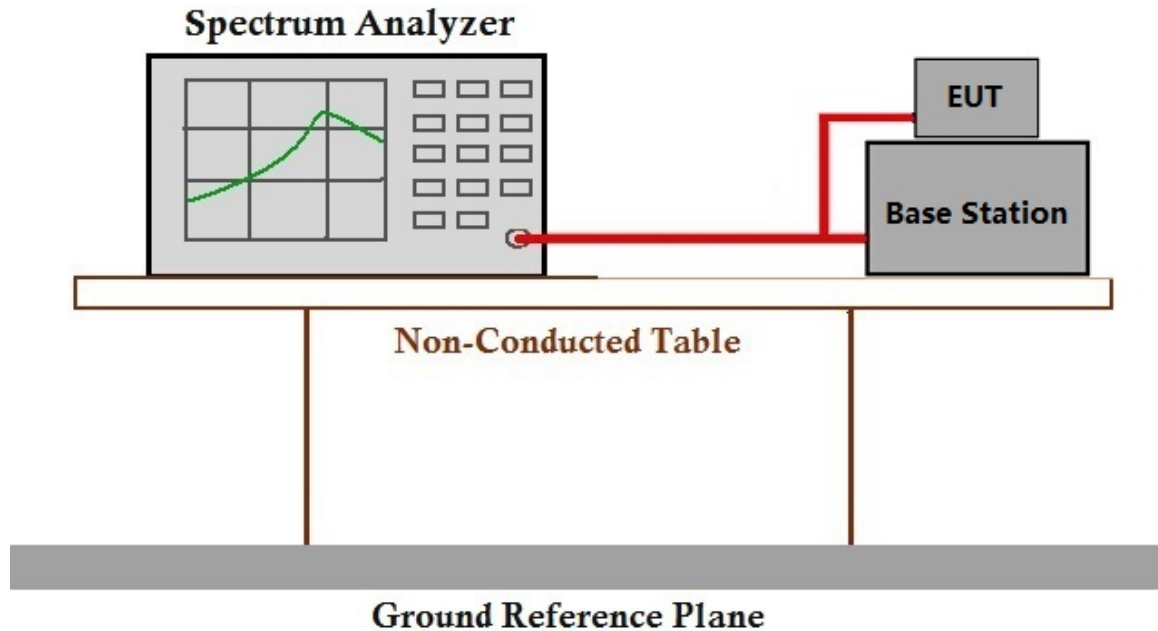
Test mode: 01: Tx mode: Keep the EUT in transmitting mode in 5G NR mode



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## 5.4.2 Test Setup Diagram



## 5.4.3 Measurement Data

Please refer to Appendix D-Spurious emissions at antenna terminals



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## 5.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §96.41

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

### 5.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 56.9 % RH Atmospheric Pressure: 1010 mbar

Test mode: 01: Tx mode: Keep the EUT in transmitting mode in 5G NR mode



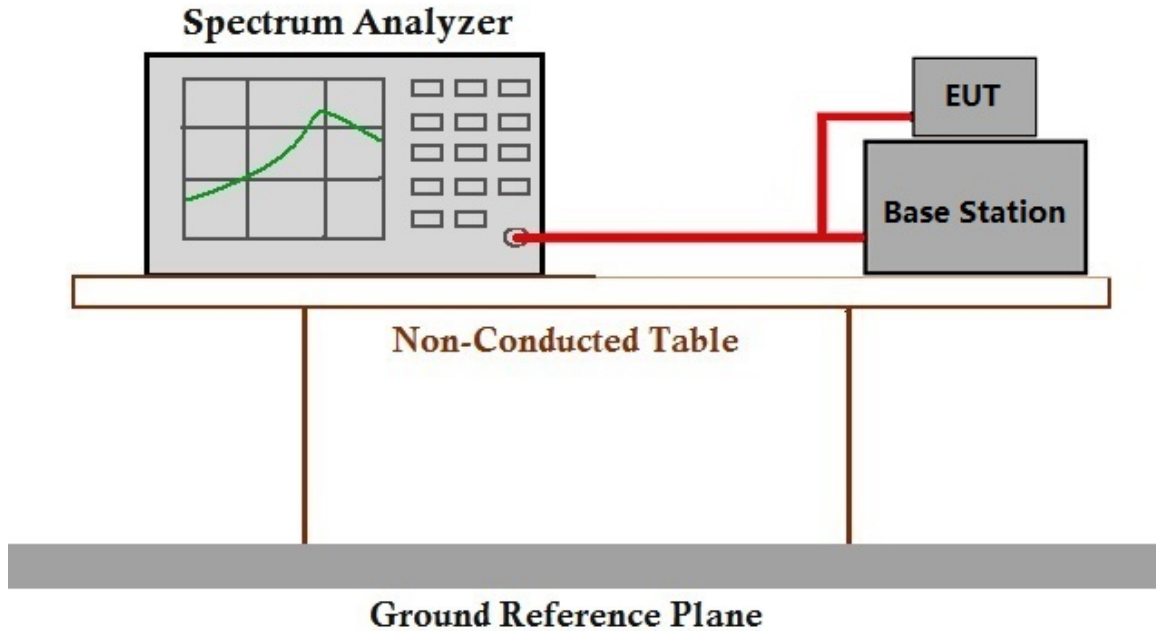
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### 5.5.2 Test Setup Diagram



### 5.5.3 Measurement Data

Please refer to Appendix D- Spurious emissions at antenna terminals



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## 5.6 Field strength of spurious radiation

|                   |   |
|-------------------|---|
| Test Requirement: | §2.1051, §96.41   |
| Test Method:      | ANSI C63.26, KDB 971168 D01 v03   |
| Limit:            | Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.<br>Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz. |

### 5.6.1 E.U.T. Operation

|                        |   |
|------------------------|---|
| Operating Environment: |   |
| Temperature:           | 23.2 °C      Humidity: 56.3 % RH      Atmospheric Pressure: 1010 mbar |
| Test mode:             | 01: Tx mode: Keep the EUT in transmitting mode in 5G NR mode          |

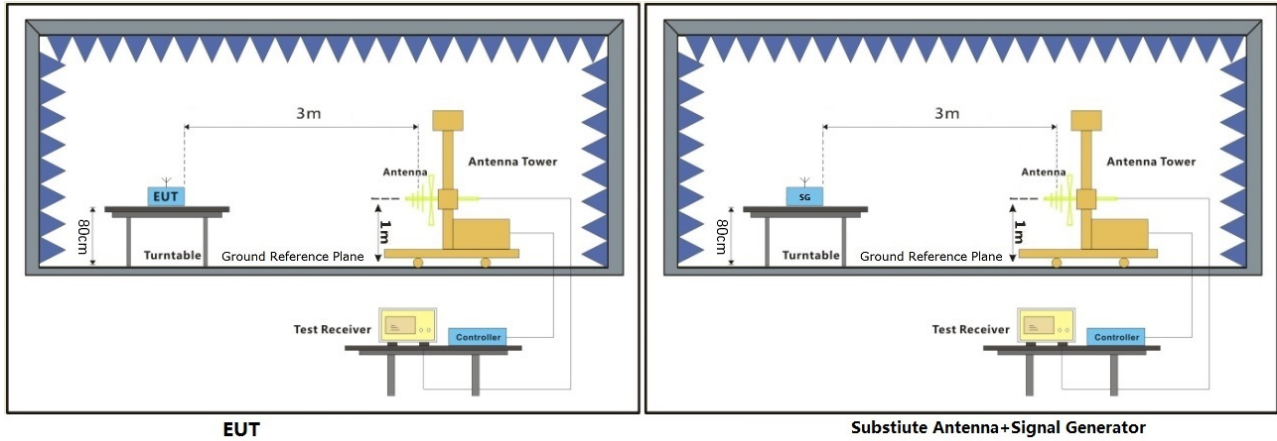


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## 5.6.2 Test Setup Diagram



EUT

Substiute Antenna+Signal Generator



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### 5.6.3 Measurement Procedure and Data

#### Test Procedure:

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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5G NR N48, Modulation: QPSK, Bandwidth: 10MHz

| Frequency (MHz) | EIRP(dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|-----------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7101            | -53.06    | -40        | -13.06          | -56.6            | 8.19            | 11.73              | Horizontal         | Pass   |
| 10651.5         | -48.48    | -40        | -8.48           | -50.9            | 11.06           | 13.48              | Horizontal         | Pass   |
| 14202           | -46.89    | -40        | -6.89           | -49.9            | 11.48           | 14.49              | Horizontal         | Pass   |
| 7101            | -52.59    | -40        | -12.59          | -56.13           | 8.19            | 11.73              | Vertical           | Pass   |
| 10651.5         | -48.8     | -40        | -8.8            | -51.22           | 11.06           | 13.48              | Vertical           | Pass   |
| 14202           | -46.59    | -40        | -6.59           | -49.6            | 11.48           | 14.49              | Vertical           | Pass   |
|                 |           |            |                 |                  |                 |                    |                    |        |
| Frequency (MHz) | EIRP(dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 7241            | -52.71    | -40        | -12.71          | -56.25           | 8.19            | 11.73              | Horizontal         | Pass   |
| 10861.5         | -47.45    | -40        | -7.45           | -49.87           | 11.06           | 13.48              | Horizontal         | Pass   |
| 14482           | -44.59    | -40        | -4.59           | -47.6            | 11.48           | 14.49              | Horizontal         | Pass   |
| 7241            | -52.69    | -40        | -12.69          | -56.23           | 8.19            | 11.73              | Vertical           | Pass   |
| 10861.5         | -47.6     | -40        | -7.6            | -50.02           | 11.06           | 13.48              | Vertical           | Pass   |
| 14482           | -44.88    | -40        | -4.88           | -47.89           | 11.48           | 14.49              | Vertical           | Pass   |
|                 |           |            |                 |                  |                 |                    |                    |        |
| Frequency (MHz) | EIRP(dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 7381            | -51.99    | -40        | -11.99          | -55.53           | 8.19            | 11.73              | Horizontal         | Pass   |
| 11071.5         | -47.7     | -40        | -7.7            | -49.99           | 11.36           | 13.65              | Horizontal         | Pass   |
| 14762           | -44.08    | -40        | -4.08           | -46.98           | 11.4            | 14.3               | Horizontal         | Pass   |
| 7381            | -51.89    | -40        | -11.89          | -55.43           | 8.19            | 11.73              | Vertical           | Pass   |
| 11071.5         | -47.48    | -40        | -7.48           | -49.77           | 11.36           | 13.65              | Vertical           | Pass   |
| 14762           | -44.06    | -40        | -4.06           | -46.96           | 11.4            | 14.3               | Vertical           | Pass   |



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5G NR N48, Modulation: QPSK, Bandwidth: 20MHz

| Frequency (MHz) | EIRP(dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|-----------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7102            | -51.84    | -40        | -11.84          | -55.38           | 8.19            | 11.73              | Horizontal         | Pass   |
| 10653           | -49.82    | -40        | -9.82           | -52.24           | 11.06           | 13.48              | Horizontal         | Pass   |
| 14204           | -45.85    | -40        | -5.85           | -48.86           | 11.48           | 14.49              | Horizontal         | Pass   |
| 7102            | -51.78    | -40        | -11.78          | -55.32           | 8.19            | 11.73              | Vertical           | Pass   |
| 10653           | -48.31    | -40        | -8.31           | -50.73           | 11.06           | 13.48              | Vertical           | Pass   |
| 14204           | -46.36    | -40        | -6.36           | -49.37           | 11.48           | 14.49              | Vertical           | Pass   |
|                 |           |            |                 |                  |                 |                    |                    |        |
| Frequency (MHz) | EIRP(dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 7232            | -52.64    | -40        | -12.64          | -56.18           | 8.19            | 11.73              | Horizontal         | Pass   |
| 10848           | -48.44    | -40        | -8.44           | -50.86           | 11.06           | 13.48              | Horizontal         | Pass   |
| 14464           | -44.33    | -40        | -4.33           | -47.34           | 11.48           | 14.49              | Horizontal         | Pass   |
| 7232            | -52.57    | -40        | -12.57          | -56.11           | 8.19            | 11.73              | Vertical           | Pass   |
| 10848           | -48.3     | -40        | -8.3            | -50.72           | 11.06           | 13.48              | Vertical           | Pass   |
| 14464           | -45.33    | -40        | -5.33           | -48.34           | 11.48           | 14.49              | Vertical           | Pass   |
|                 |           |            |                 |                  |                 |                    |                    |        |
| Frequency (MHz) | EIRP(dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 7362            | -52.01    | -40        | -12.01          | -55.55           | 8.19            | 11.73              | Horizontal         | Pass   |
| 11043           | -47.93    | -40        | -7.93           | -50.22           | 11.36           | 13.65              | Horizontal         | Pass   |
| 14724           | -44.43    | -40        | -4.43           | -47.33           | 11.4            | 14.3               | Horizontal         | Pass   |
| 7362            | -51.56    | -40        | -11.56          | -55.1            | 8.19            | 11.73              | Vertical           | Pass   |
| 11043           | -47.27    | -40        | -7.27           | -49.56           | 11.36           | 13.65              | Vertical           | Pass   |
| 14724           | -44.16    | -40        | -4.16           | -47.06           | 11.4            | 14.3               | Vertical           | Pass   |



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5G NR N48, Modulation: QPSK, Bandwidth: 40MHz

| Frequency (MHz) | EIRP(dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|-----------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7103            | -51.93    | -40        | -11.93          | -55.47           | 8.19            | 11.73              | Horizontal         | Pass   |
| 10654.5         | -49.78    | -40        | -9.78           | -52.2            | 11.06           | 13.48              | Horizontal         | Pass   |
| 14206           | -45.96    | -40        | -5.96           | -48.97           | 11.48           | 14.49              | Horizontal         | Pass   |
| 7103            | -52.28    | -40        | -12.28          | -55.82           | 8.19            | 11.73              | Vertical           | Pass   |
| 10654.5         | -49.46    | -40        | -9.46           | -51.88           | 11.06           | 13.48              | Vertical           | Pass   |
| 14206           | -45.78    | -40        | -5.78           | -48.79           | 11.48           | 14.49              | Vertical           | Pass   |
|                 |           |            |                 |                  |                 |                    |                    |        |
| Frequency (MHz) | EIRP(dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 7214            | -52.53    | -40        | -12.53          | -56.07           | 8.19            | 11.73              | Horizontal         | Pass   |
| 10821           | -48.62    | -40        | -8.62           | -51.04           | 11.06           | 13.48              | Horizontal         | Pass   |
| 14428           | -44.54    | -40        | -4.54           | -47.55           | 11.48           | 14.49              | Horizontal         | Pass   |
| 7214            | -52.43    | -40        | -12.43          | -55.97           | 8.19            | 11.73              | Vertical           | Pass   |
| 10821           | -47.86    | -40        | -7.86           | -50.28           | 11.06           | 13.48              | Vertical           | Pass   |
| 14428           | -44.5     | -40        | -4.5            | -47.51           | 11.48           | 14.49              | Vertical           | Pass   |
|                 |           |            |                 |                  |                 |                    |                    |        |
| Frequency (MHz) | EIRP(dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 7324            | -51.56    | -40        | -11.56          | -55.1            | 8.19            | 11.73              | Horizontal         | Pass   |
| 10986           | -47.69    | -40        | -7.69           | -50.11           | 11.06           | 13.48              | Horizontal         | Pass   |
| 14648           | -43.33    | -40        | -3.33           | -46.23           | 11.4            | 14.3               | Horizontal         | Pass   |
| 7324            | -52.38    | -40        | -12.38          | -55.92           | 8.19            | 11.73              | Vertical           | Pass   |
| 10986           | -47.39    | -40        | -7.39           | -49.81           | 11.06           | 13.48              | Vertical           | Pass   |
| 14648           | -44.39    | -40        | -4.39           | -47.29           | 11.4            | 14.3               | Vertical           | Pass   |

Note: All modes have been tested and we found QPSK test mode has the worst test result. Only record the worst test result.



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5G NR n48A-n66A, Modulation: QPSK, Bandwidth: 15MHz

| Frequency (MHz) | EIRP(dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|-----------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7371.5          | -51.71    | -40        | -11.71          | -54.97           | 8.19            | 11.73              | Horizontal         | Pass   |
| 11057.25        | -47.20    | -40        | -7.20           | -49.41           | 11.36           | 13.65              | Horizontal         | Pass   |
| 14743           | -43.31    | -40        | -3.31           | -46.01           | 11.4            | 14.3               | Horizontal         | Pass   |
| 7371.5          | -51.94    | -40        | -11.94          | -55.51           | 8.19            | 11.73              | Vertical           | Pass   |
| 11057.25        | -47.69    | -40        | -7.69           | -49.56           | 11.36           | 13.65              | Vertical           | Pass   |
| 14743           | -44.35    | -40        | -4.35           | -46.91           | 11.4            | 14.3               | Vertical           | Pass   |

5G NR n48A-n70A, Modulation: QPSK, Bandwidth: 15MHz

| Frequency (MHz) | EIRP(dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|-----------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7371.5          | -51.37    | -40        | -11.37          | -54.97           | 8.19            | 11.73              | Horizontal         | Pass   |
| 11057.25        | -47.48    | -40        | -7.48           | -49.41           | 11.36           | 13.65              | Horizontal         | Pass   |
| 14743           | -43.56    | -40        | -3.56           | -46.01           | 11.4            | 14.3               | Horizontal         | Pass   |
| 7371.5          | -52.08    | -40        | -12.08          | -55.51           | 8.19            | 11.73              | Vertical           | Pass   |
| 11057.25        | -47.63    | -40        | -7.63           | -49.56           | 11.36           | 13.65              | Vertical           | Pass   |
| 14743           | -44.27    | -40        | -4.27           | -46.91           | 11.4            | 14.3               | Vertical           | Pass   |

5G NR n48A-n71A, Modulation: QPSK, Bandwidth: 15MHz

| Frequency (MHz) | EIRP(dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|-----------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7371.5          | -51.61    | -40        | -11.61          | -54.97           | 8.19            | 11.73              | Horizontal         | Pass   |
| 11057.25        | -47.40    | -40        | -7.40           | -49.41           | 11.36           | 13.65              | Horizontal         | Pass   |
| 14743           | -43.99    | -40        | -3.99           | -46.01           | 11.4            | 14.3               | Horizontal         | Pass   |
| 7371.5          | -52.44    | -40        | -12.44          | -55.51           | 8.19            | 11.73              | Vertical           | Pass   |
| 11057.25        | -47.39    | -40        | -7.39           | -49.56           | 11.36           | 13.65              | Vertical           | Pass   |
| 14743           | -44.28    | -40        | -4.28           | -46.91           | 11.4            | 14.3               | Vertical           | Pass   |



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## 5G NR n48A-n66A, Modulation: QPSK, Bandwidth: 40MHz

| Frequency (MHz) | EIRP(dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|-----------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7324            | -51.56    | -40        | -11.56          | -55.1            | 8.19            | 11.73              | Horizontal         | Pass   |
| 10986           | -48.08    | -40        | -8.08           | -50.11           | 11.06           | 13.48              | Horizontal         | Pass   |
| 14648           | -43.52    | -40        | -3.52           | -46.23           | 11.4            | 14.3               | Horizontal         | Pass   |
| 7324            | -52.42    | -40        | -12.42          | -55.92           | 8.19            | 11.73              | Vertical           | Pass   |
| 10986           | -47.81    | -40        | -7.81           | -49.81           | 11.06           | 13.48              | Vertical           | Pass   |
| 14648           | -44.39    | -40        | -4.39           | -47.29           | 11.4            | 14.3               | Vertical           | Pass   |

## 5G NR n48A-n70A, Modulation: QPSK, Bandwidth: 40MHz

| Frequency (MHz) | EIRP(dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|-----------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7324            | -52.01    | -40        | -12.01          | -55.1            | 8.19            | 11.73              | Horizontal         | Pass   |
| 10986           | -47.87    | -40        | -7.87           | -50.11           | 11.06           | 13.48              | Horizontal         | Pass   |
| 14648           | -43.76    | -40        | -3.76           | -46.23           | 11.4            | 14.3               | Horizontal         | Pass   |
| 7324            | -52.34    | -40        | -12.34          | -55.92           | 8.19            | 11.73              | Vertical           | Pass   |
| 10986           | -47.41    | -40        | -7.41           | -49.81           | 11.06           | 13.48              | Vertical           | Pass   |
| 14648           | -44.39    | -40        | -4.39           | -47.29           | 11.4            | 14.3               | Vertical           | Pass   |

## 5G NR n48A-n71A, Modulation: QPSK, Bandwidth: 40MHz

| Frequency (MHz) | EIRP(dBm) | Limit(dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|-----------|------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7324            | -51.76    | -40        | -11.76          | -55.1            | 8.19            | 11.73              | Horizontal         | Pass   |
| 10986           | -47.87    | -40        | -7.87           | -50.11           | 11.06           | 13.48              | Horizontal         | Pass   |
| 14648           | -43.41    | -40        | -3.41           | -46.23           | 11.4            | 14.3               | Horizontal         | Pass   |
| 7324            | -52.43    | -40        | -12.43          | -55.92           | 8.19            | 11.73              | Vertical           | Pass   |
| 10986           | -47.81    | -40        | -7.81           | -49.81           | 11.06           | 13.48              | Vertical           | Pass   |
| 14648           | -44.81    | -40        | -4.81           | -47.29           | 11.4            | 14.3               | Vertical           | Pass   |



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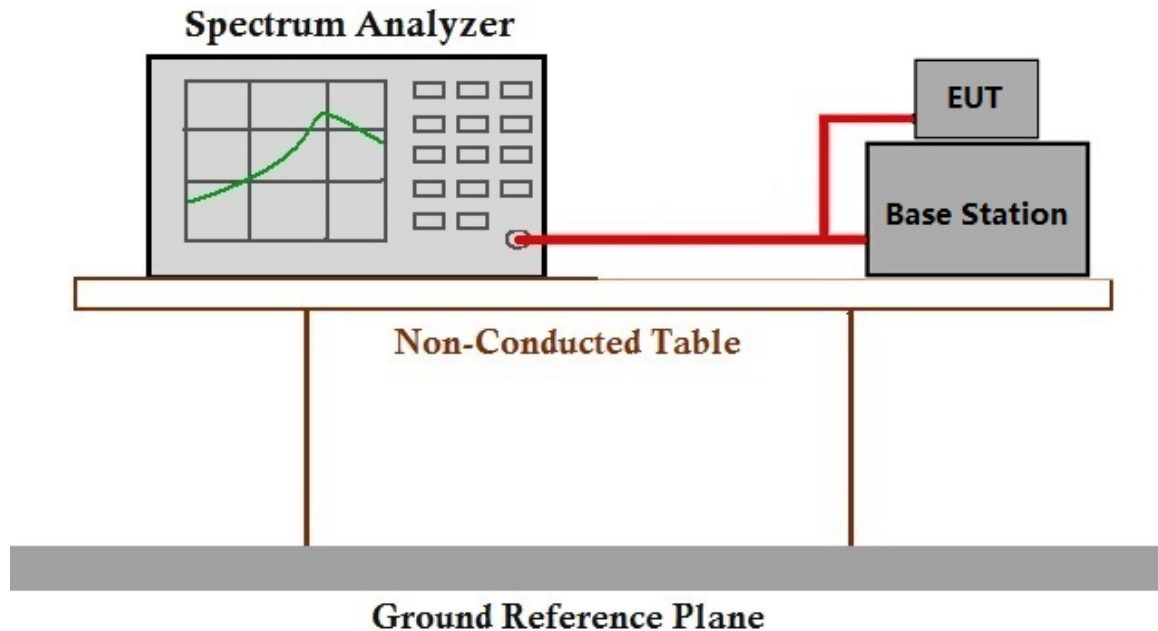
## 5.7 Frequency stability

Test Requirement: §2.1055  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: Fundamental emission stays within authorized frequency block

### 5.7.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.7 °C Humidity: 56.9 % RH Atmospheric Pressure: 1010 mbar  
 Test mode: 01: Tx mode: Keep the EUT in transmitting mode in 5G NR mode

### 5.7.2 Test Setup Diagram



### 5.7.3 Measurement Data

Please refer to Appendix F- Frequency stability



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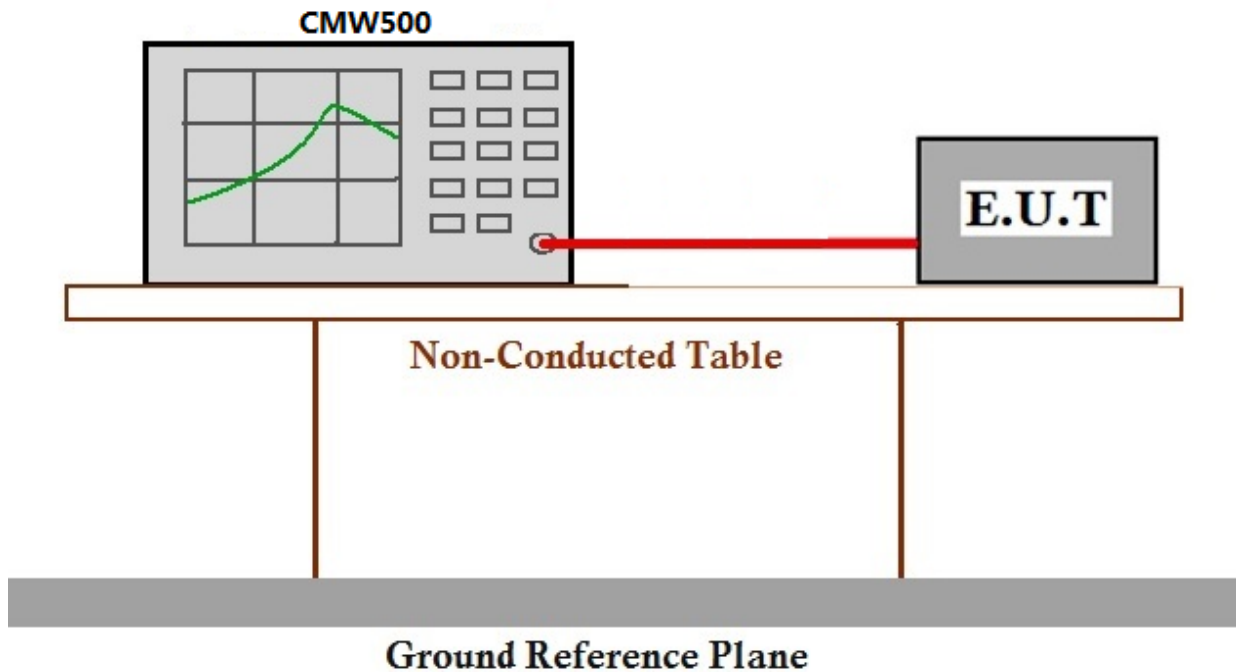
## 5.8 Modulation Characteristics

Test Requirement: §2.1047  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: Digital modulation

### 5.8.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.7 °C      Humidity: 56.9 % RH      Atmospheric Pressure: 1010 mbar  
 Test mode: 01: Tx mode: Keep the EUT in transmitting mode in 5G NR mode

### 5.8.2 Test Setup Diagram



### 5.8.3 Measurement Data

Please refer to Appendix G-Modulation Characteristics



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## 6 Photographs

### 6.1 Setup photo

Please refer to setup photos.

### 6.2 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

-End of Report-

