



# FCC RF Test Report

APPLICANT : vivo Mobile Communication Co., Ltd.  
EQUIPMENT : Mobile Phone  
BRAND NAME : vivo  
MODEL NAME : V2529  
FCC ID : 2AUCY-V2529  
STANDARD : 47 CFR Part 90(S)  
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)  
TEST DATE(S) : Jul. 15, 2025 ~ Jul. 24, 2025

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

*Fly Liang*

Approved by: Fly Liang



**Sporton International Inc. (ShenZhen)**

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**People's Republic of China**



## TABLE OF CONTENTS

|                                                                |           |
|----------------------------------------------------------------|-----------|
| REVISION HISTORY.....                                          | 3         |
| SUMMARY OF TEST RESULT .....                                   | 4         |
| <b>1 GENERAL DESCRIPTION .....</b>                             | <b>5</b>  |
| 1.1 Applicant.....                                             | 5         |
| 1.2 Manufacturer .....                                         | 5         |
| 1.3 Feature of Equipment Under Test.....                       | 5         |
| 1.4 Product Specification of Equipment Under Test .....        | 5         |
| 1.5 Modification of EUT .....                                  | 6         |
| 1.6 Maximum Conducted Power and Emission Designator .....      | 6         |
| 1.7 Testing Site.....                                          | 6         |
| 1.8 Test Software .....                                        | 6         |
| 1.9 Applied Standards .....                                    | 7         |
| <b>2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST .....</b>      | <b>8</b>  |
| 2.1 Test Mode.....                                             | 8         |
| 2.2 Connection Diagram of Test System .....                    | 8         |
| 2.3 Support Unit used in test configuration and system .....   | 9         |
| 2.4 Measurement Results Explanation Example .....              | 9         |
| 2.5 Frequency List of Low/Middle/High Channels .....           | 9         |
| <b>3 TEST RESULT .....</b>                                     | <b>10</b> |
| 3.1 Conducted Output Power Measurement.....                    | 10        |
| 3.2 99% Occupied Bandwidth and 26dB Bandwidth Measurement..... | 11        |
| 3.3 Emissions Mask Measurement .....                           | 12        |
| 3.4 Emissions Mask – Out Of Band Emissions Measurement.....    | 14        |
| 3.5 Field Strength of Spurious Radiation Measurement .....     | 15        |
| 3.6 Frequency Stability Measurement.....                       | 18        |
| <b>4 LIST OF MEASURING EQUIPMENT .....</b>                     | <b>20</b> |
| <b>5 MEASUREMENT UNCERTAINTY .....</b>                         | <b>21</b> |
| <b>APPENDIX A. TEST RESULTS OF CONDUCTED TEST</b>              |           |
| <b>APPENDIX B. TEST RESULTS OF RADIATED TEST</b>               |           |
| <b>APPENDIX C. TEST SETUP PHOTOGRAPHS</b>                      |           |



## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FW562603A  | Rev. 01 | Initial issue of report | Aug. 27, 2025 |
|            |         |                         |               |
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## SUMMARY OF TEST RESULT

| Report Section | FCC Rule           | Description                                      | Limit                               | Result      | Remark                                    |
|----------------|--------------------|--------------------------------------------------|-------------------------------------|-------------|-------------------------------------------|
| 3.1            | §2.1046            | Conducted Output Power                           | —                                   | Report only | -                                         |
| 3.2            | §2.1049<br>§90.209 | Occupied Bandwidth and<br>26dB Bandwidth         | —                                   | Report only | -                                         |
| 3.3            | §2.1051<br>§90.691 | Emission masks –<br>In-band emissions            | $< 50+10\log_{10}(P[\text{Watts}])$ | PASS        | -                                         |
| 3.4            | §2.1051<br>§90.691 | Emission masks –<br>Out of band emissions        | $< 43+10\log_{10}(P[\text{Watts}])$ | PASS        | -                                         |
| 3.5            | §2.1053<br>§90.691 | Field Strength of Spurious<br>Radiation          | $< 43+10\log_{10}(P[\text{Watts}])$ | PASS        | Under limit<br>47.61 dB at<br>3258.00 MHz |
| 3.6            | §2.1055<br>§90.213 | Frequency Stability for<br>Temperature & Voltage | $< 2.5 \text{ ppm}$                 | PASS        | -                                         |

**Conformity Assessment Condition:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# 1 General Description

## 1.1 Applicant

vivo Mobile Communication Co., Ltd.

No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

## 1.2 Manufacturer

vivo Mobile Communication Co., Ltd.

No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

## 1.3 Feature of Equipment Under Test

| Product Feature |                                                                                          |
|-----------------|------------------------------------------------------------------------------------------|
| Equipment       | Mobile Phone                                                                             |
| Brand Name      | vivo                                                                                     |
| Model Name      | V2529                                                                                    |
| FCC ID          | 2AUCY-V2529                                                                              |
| IMEI Code       | Conducted: 862902089996379/862902089996361<br>Radiation: 862902089999795/862902089999787 |
| HW Version      | MP_0.1                                                                                   |
| SW Version      | PD2512GF_EX_A_15.0.4.3.W30                                                               |
| EUT Stage       | Production Unit                                                                          |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Product Specification of Equipment Under Test

| Product Specification subjective to this standard |                                                |
|---------------------------------------------------|------------------------------------------------|
| Tx Frequency                                      | 814 ~ 824 MHz                                  |
| Rx Frequency                                      | 859 ~ 869 MHz                                  |
| Bandwidth                                         | 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz           |
| Maximum Output Power to Antenna                   | <Ant.13><br>23.60 dBm<br><Ant.31><br>23.62 dBm |
| Antenna Gain                                      | <Ant.13><br>-5.04 dBi<br><Ant.31><br>-4.28 dBi |
| Type of Modulation                                | QPSK / 16QAM / 64QAM / 256QAM                  |

Note: Only maximum conducted Power of Ant.31 is shown in the report.



## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Maximum Conducted Power and Emission Designator

| LTE Band 26 |                       | QPSK                        |                              | 16QAM/64QAM/256QAM          |                              |
|-------------|-----------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|
| BW (MHz)    | Frequency Range (MHz) | Maximum Conducted power (W) | Emission Designator (99%OBW) | Maximum Conducted power (W) | Emission Designator (99%OBW) |
| 1.4         | 814.7 ~ 823.3         | 0.2275                      | 1M09G7D                      | 0.1950                      | 1M09W7D                      |
| 3           | 815.5 ~ 822.5         | 0.2286                      | 2M72G7D                      | 0.1991                      | 2M72W7D                      |
| 5           | 816.5 ~ 821.5         | 0.2296                      | 4M48G7D                      | 0.1982                      | 4M50W7D                      |
| 10          | 819.0                 | 0.2286                      | 8M99G7D                      | 0.1991                      | 8M99W7D                      |
| 15          | 824                   | 0.2301                      | 13M4G7D                      | 0.1977                      | 13M5W7D                      |

Note: All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

## 1.7 Testing Site

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

|                    |                                                                                                                                                                                                                 |                     |                                |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------|
| Test Firm          | Sporton International Inc. (ShenZhen)                                                                                                                                                                           |                     |                                |
| Test Site Location | 101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China<br>TEL: +86-755-86066985 |                     |                                |
| Test Site No.      | Sporton Site No.                                                                                                                                                                                                | FCC Designation No. | FCC Test Firm Registration No. |
|                    | TH01-SZ<br>03CH02-SZ                                                                                                                                                                                            | CN1256              | 421272                         |

## 1.8 Test Software

| Item | Site      | Manufacture | Name | Version      |
|------|-----------|-------------|------|--------------|
| 1.   | 03CH02-SZ | AUDIX       | E3   | 6.2009-8-24a |



## **1.9 Applied Standards**

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR 90(S)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 971168 D02 Misc Rev Approv License Devices v02r02

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

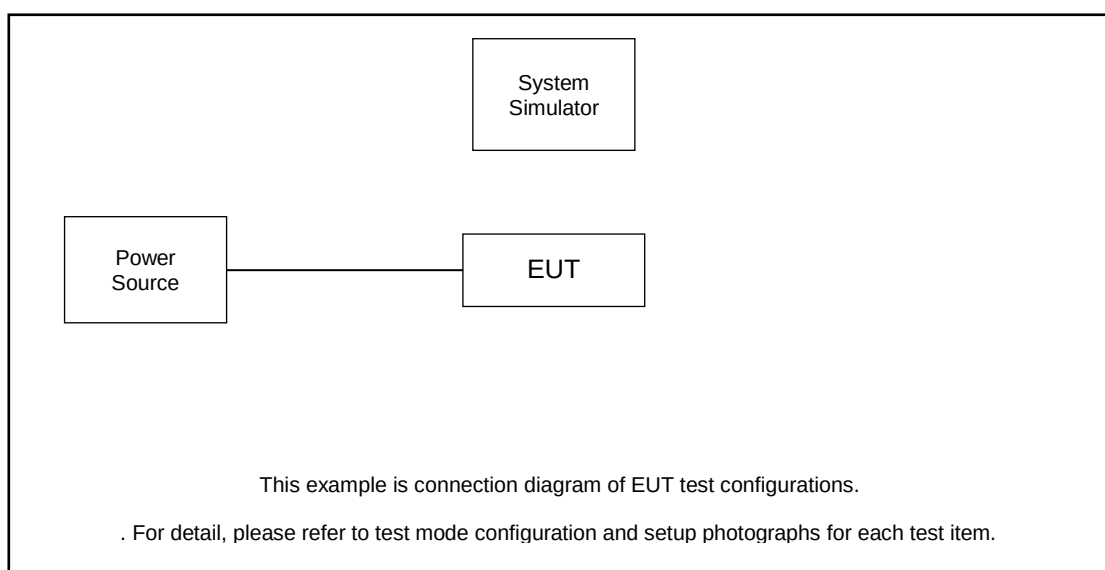
### 2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

| Test Items                             | Band                                                                                                                                                                                                                                                                                                                                                                                                      | Bandwidth (MHz) |   |   |    |    |    | Modulation |        |        |         | RB # |      |      | Test Channel |   |   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---|---|----|----|----|------------|--------|--------|---------|------|------|------|--------------|---|---|
|                                        |                                                                                                                                                                                                                                                                                                                                                                                                           | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16 QAM | 64 QAM | 256 QAM | 1    | Half | Full | L            | M | H |
| Max. Output Power                      | 26                                                                                                                                                                                                                                                                                                                                                                                                        | v               | v | v | v  |    | -  | v          | v      | v      | v       | v    | v    | v    | v            | v | v |
| 26dB and 99% Bandwidth                 | 26                                                                                                                                                                                                                                                                                                                                                                                                        | v               | v | v | v  | v  | -  | v          | v      |        |         |      |      | v    |              | v |   |
| Emission masks In-band emissions       | 26                                                                                                                                                                                                                                                                                                                                                                                                        | v               | v | v | v  | v  | -  | v          | v      | v      |         | v    |      | v    | v            |   | v |
| Emission masks – Out of band emissions | 26                                                                                                                                                                                                                                                                                                                                                                                                        | v               | v | v | v  | v  | -  | v          |        |        |         | v    |      |      | v            | v | v |
| Frequency Stability                    | 26                                                                                                                                                                                                                                                                                                                                                                                                        |                 |   |   | v  |    | -  | v          |        |        |         |      |      | v    |              | v |   |
| Radiated Spurious Emission             | 26                                                                                                                                                                                                                                                                                                                                                                                                        |                 |   |   | v  | v  | -  | v          |        |        |         | v    |      |      |              | v |   |
| Note                                   | 1. The mark “v” means that this configuration is chosen for testing<br>2. The mark “-” means that this bandwidth is not supported.<br>3. LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies. |                 |   |   |    |    |    |            |        |        |         |      |      |      |              |   |   |

### 2.2 Connection Diagram of Test System







## 2.3 Support Unit used in test configuration and system

| Item | Equipment        | Trade Name | Model No. | FCC ID | Data Cable | Power Cord        |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1.   | System Simulator | Anritsu    | MT8820C   | N/A    | N/A        | Unshielded, 1.8 m |

## 2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the 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.*

The following shows an offset computation example with RF cable loss 4.0 dB and a 10dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.0 + 10 = 14.0 \text{ (dB)}\end{aligned}$$

## 2.5 Frequency List of Low/Middle/High Channels

| LTE Band 26 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 15                                     | Channel                | -      | 26790  | -       |
|                                        | Frequency              | -      | 824    | -       |
| 10                                     | Channel                | -      | 26740  | -       |
|                                        | Frequency              | -      | 819    | -       |
| 5                                      | Channel                | 26715  | 26740  | 26765   |
|                                        | Frequency              | 816.5  | 819    | 821.5   |
| 3                                      | Channel                | 26705  | 26740  | 26775   |
|                                        | Frequency              | 815.5  | 819    | 822.5   |
| 1.4                                    | Channel                | 26697  | 26740  | 26783   |
|                                        | Frequency              | 814.7  | 819    | 823.3   |

### 3 Test Result

#### 3.1 Conducted Output Power Measurement

##### 3.1.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

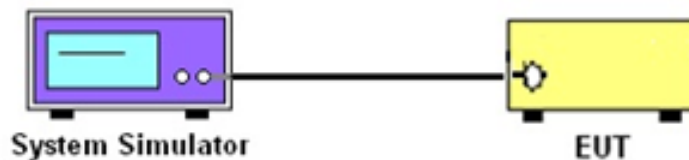
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

## 3.2 99% Occupied Bandwidth and 26dB Bandwidth Measurement

### 3.2.1 Description of (Occupied) Bandwidth Limitations Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

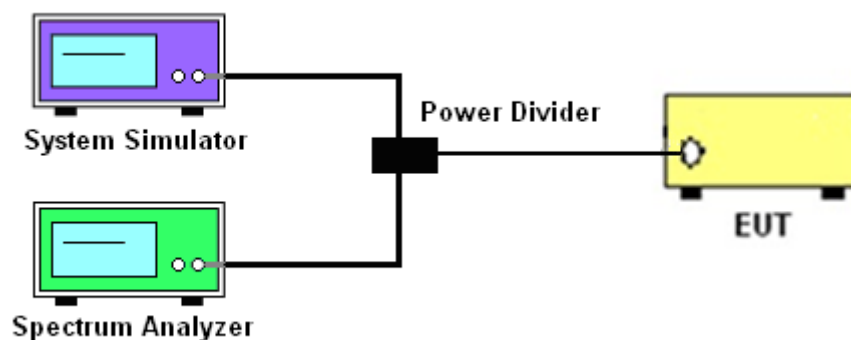
### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.2.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.

### 3.2.4 Test Setup



### 3.2.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Please refer to Appendix A.

### 3.3 Emissions Mask Measurement

#### 3.3.1 Description of Emissions Mask Measurement

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691.(a):

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $116 \log_{10}(f/6.1)$  decibels or  $50 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

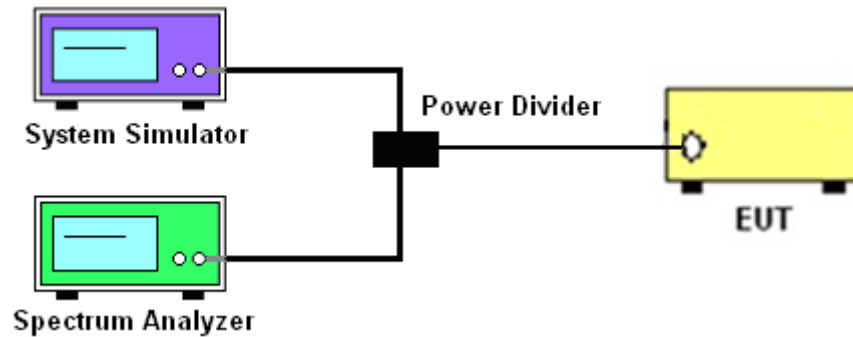
#### 3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.3.3 Test Procedures

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The emissions mask of low and high channels for the highest RF powers were measured.
3. The measured RBW and the VBW set 3 times of RBW are then set in spectrum analyzer, and the RBW correction factor  $10 \log (1\% \text{ of OBW/measured RBW})(\text{dB})$  was compensated, if required.
4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

### 3.3.4 Test Setup



### 3.3.5 Test Result (Plots) of Conducted Emissions Mask

Please refer to Appendix A.

### 3.4 Emissions Mask – Out Of Band Emissions Measurement

#### 3.4.1 Description of Conducted Emissions Out of band emissions measurement

The power of any emission FCC Part 90.691 (a)(2) on any frequency removed from the assigned frequency by out of the authorized bandwidth at least  $43 + 10 \log (P)$  dB. It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

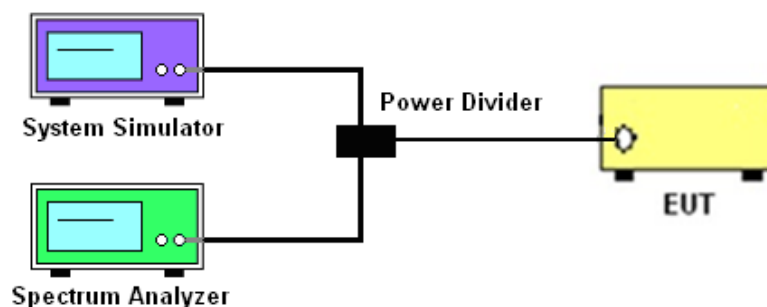
#### 3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.4.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)

#### 3.4.4 Test Setup



#### 3.4.5 Test Result (Plots) of Conducted Emission

Please refer to Appendix A.



### **3.5 Field Strength of Spurious Radiation Measurement**

#### **3.5.1 Description of Field Strength of Spurious Radiated Measurement**

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least  $43 + 10 \log (P)$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log_{10}(P[\text{Watts}])$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### **3.5.2 Measuring Instruments**

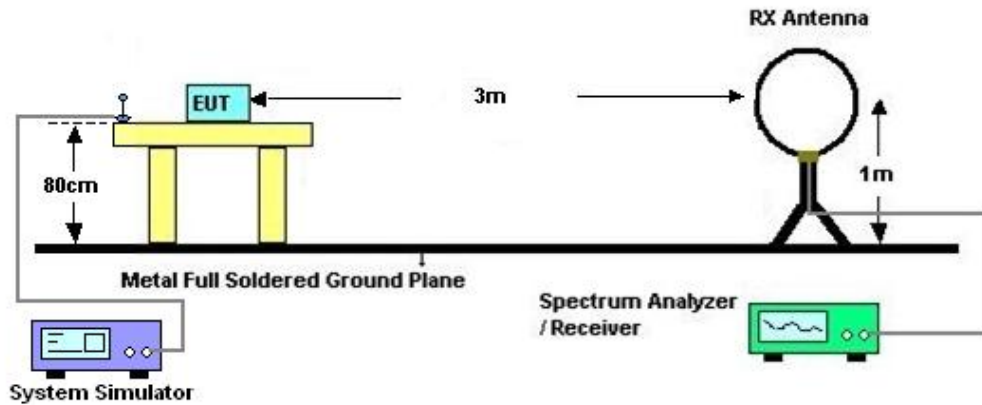
The measuring equipment is listed in the section 4 of this test report.

#### **3.5.3 Test Procedures**

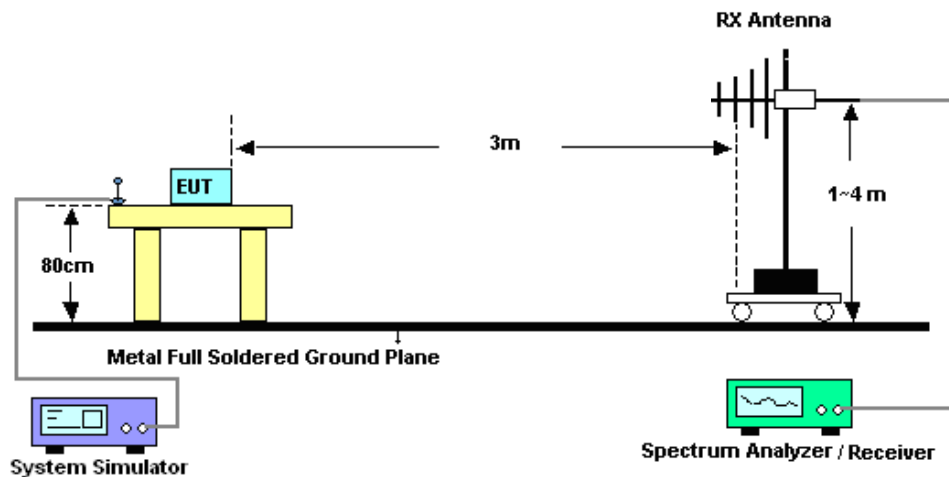
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10.  $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
11.  $\text{ERP (dBm)} = \text{EIRP} - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. The limit line is derived from  $43 + 10 \log(P)$  dB below the transmitter power P(Watts)

### 3.5.4 Test Setup

For radiated test from 30MHz

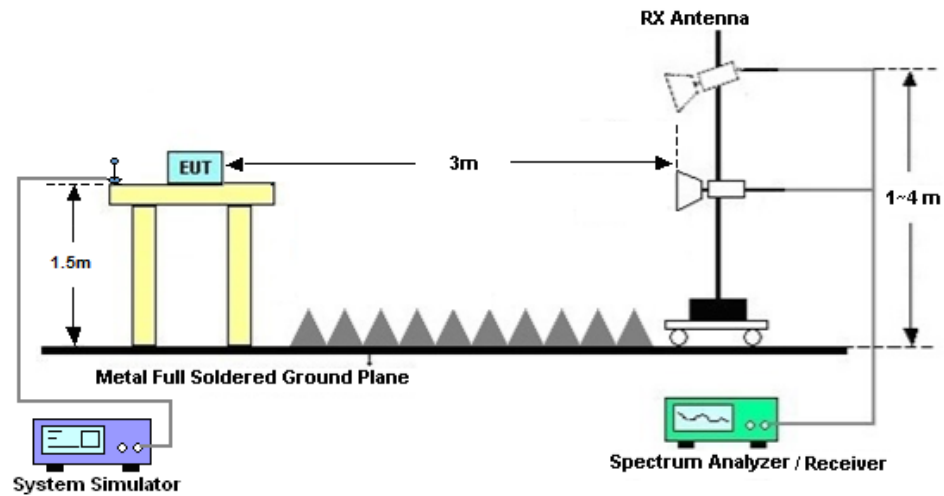


For radiated test from 30MHz to 1GHz





For radiated test above 1GHz



### 3.5.5 Test Result of Field Strength of Spurious Radiated

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

## 3.6 Frequency Stability Measurement

### 3.6.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency according to FCC Part 90.213.

### 3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

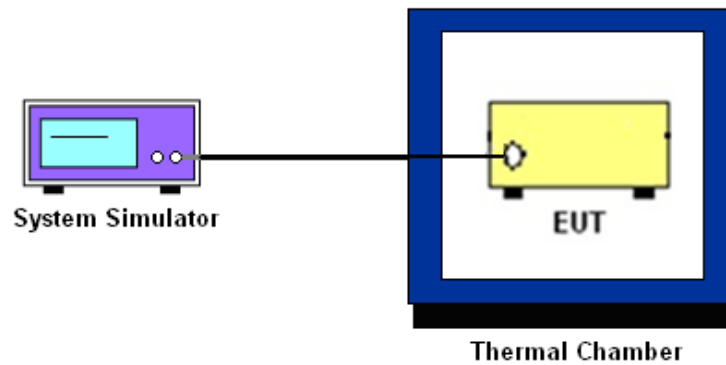
### 3.6.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

### 3.6.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at  $20\pm 5^{\circ}\text{C}$  and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
3. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the
4. battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

### 3.6.5 Test Setup



### 3.6.6 Test Result of Temperature Variation

Please refer to Appendix A.



## 4 List of Measuring Equipment

| Instrument                | Manufacturer              | Model No.     | Serial No.   | Characteristics | Calibration Date | Test Date     | Due Date      | Remark                |
|---------------------------|---------------------------|---------------|--------------|-----------------|------------------|---------------|---------------|-----------------------|
| EXA Spectrum Analyzer     | KEYSIGHT                  | N9010A        | MY55150213   | 10Hz~44GHz      | Jul. 03, 2025    | Jul. 24, 2025 | Jul. 02, 2026 | Radiation (03CH02-SZ) |
| Loop Antenna              | R&S                       | HFH2-Z2E      | 101141       | 9kHz~30MHz      | Dec. 28, 2024    | Jul. 24, 2025 | Dec. 27, 2025 | Radiation (03CH02-SZ) |
| Bilog Antenna             | TeseQ                     | CBL6112D      | 35407        | 30MHz~2GHz      | Oct. 24, 2023    | Jul. 24, 2025 | Oct. 23, 2025 | Radiation (03CH02-SZ) |
| Double Ridge Horn Antenna | ETS-Lindgren              | 3117          | 00119436     | 1GHz~18GHz      | Jul. 04, 2025    | Jul. 24, 2025 | Jul. 04, 2026 | Radiation (03CH02-SZ) |
| HF Amplifier              | MITEQ                     | TTA1840-35-HG | 1871923      | 18GHz~40GHz     | Jul. 03, 2025    | Jul. 24, 2025 | Jul. 03, 2026 | Radiation (03CH02-SZ) |
| SHF-EHF Horn              | com-power                 | AH-840        | 101071       | 18GHz~40GHz     | Apr. 03, 2025    | Jul. 24, 2025 | Apr. 02, 2027 | Radiation (03CH02-SZ) |
| LF Amplifier              | EM Electronics            | EM330         | 060788       | 20MHz~3GHz      | Dec. 25, 2024    | Jul. 24, 2025 | Dec. 24, 2025 | Radiation (03CH02-SZ) |
| HF Amplifier              | KEYSIGHT                  | 83017A        | MY53270105   | 0.5GHz~26.5GHz  | Oct. 14, 2024    | Jul. 24, 2025 | Oct. 13, 2025 | Radiation (03CH02-SZ) |
| AC Power Source           | Chroma                    | 61601         | 616010003043 | N/A             | Oct. 18, 2024    | Jul. 24, 2025 | Oct. 17, 2025 | Radiation (03CH02-SZ) |
| Turn Table                | Chaintek                  | T-200         | N/A          | 0~360 degree    | NCR              | Jul. 24, 2025 | NCR           | Radiation (03CH02-SZ) |
| Antenna Mast              | Chaintek                  | MBS-400       | N/A          | 1 m~4 m         | NCR              | Jul. 24, 2025 | NCR           | Radiation (03CH02-SZ) |
| Spectrum Analyzer         | R&S                       | FSV40         | 101078       | 10Hz~40GHz      | Apr. 02, 2025    | Jul. 15, 2025 | Apr. 01, 2026 | Conducted (TH01-SZ)   |
| DC Power Supply           | TTI                       | PL330P        | 290070       | Max 32V, 3A     | Oct. 14, 2024    | Jul. 15, 2025 | Oct. 13, 2025 | Conducted (TH01-SZ)   |
| Power Divider             | Titan                     | P02N005180    | 923402       | 0.4GHz~26.5GHz  | Nov. 08, 2024    | Jul. 15, 2025 | Nov. 07, 2025 | Conducted (TH01-SZ)   |
| Thermal Chamber           | Ten Billion Hongzhangroup | LP-150U       | H2014081803  | -40~+150°C      | Jul. 02, 2025    | Jul. 15, 2025 | Jul. 01, 2026 | Conducted (TH01-SZ)   |

NCR: No Calibration Required

## 5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

| Test Item                              | Uncertainty     |
|----------------------------------------|-----------------|
| Conducted Spurious Emission & Bandedge | $\pm 1.34$ dB   |
| Occupied Channel Bandwidth             | $\pm 0.012$ MHz |
| Conducted Power                        | $\pm 1.34$ dB   |
| Peak to Average Ratio                  | $\pm 1.34$ dB   |
| Frequency Stability                    | $\pm 1.3$ Hz    |

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                          |        |
|--------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 2.47dB |
|--------------------------------------------------------------------------|--------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

|                                                                          |        |
|--------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 3.31dB |
|--------------------------------------------------------------------------|--------|

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

|                                                                          |        |
|--------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 3.72dB |
|--------------------------------------------------------------------------|--------|

----- THE END -----



## Appendix A. Test Results of Conducted Test

|                 |            |                     |        |
|-----------------|------------|---------------------|--------|
| Test Engineer : | Nina Cheng | Temperature :       | 24~26℃ |
|                 |            | Relative Humidity : | 50~53% |

### Conducted Output Power (Average power)

Ant31:

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|
| Channel         |            |         |           |                          | 26790                       |                           |
| Frequency (MHz) |            |         |           |                          | 824                         |                           |
| 15              | QPSK       | 1       | 0         |                          | 23.62                       |                           |
| 15              | QPSK       | 1       | 37        |                          | 23.61                       |                           |
| 15              | QPSK       | 1       | 74        |                          | 23.54                       |                           |
| 15              | QPSK       | 36      | 0         |                          | 22.54                       |                           |
| 15              | QPSK       | 36      | 20        |                          | 22.55                       |                           |
| 15              | QPSK       | 36      | 39        |                          | 22.52                       |                           |
| 15              | QPSK       | 75      | 0         |                          | 22.56                       |                           |
| 15              | 16QAM      | 1       | 0         |                          | 22.87                       |                           |
| 15              | 16QAM      | 1       | 37        |                          | 22.96                       |                           |
| 15              | 16QAM      | 1       | 74        |                          | 22.54                       |                           |
| 15              | 16QAM      | 36      | 0         |                          | 21.54                       |                           |
| 15              | 16QAM      | 36      | 20        |                          | 21.64                       |                           |
| 15              | 16QAM      | 36      | 39        |                          | 21.56                       |                           |
| 15              | 16QAM      | 75      | 0         |                          | 21.49                       |                           |
| 15              | 64QAM      | 1       | 0         |                          | 21.83                       |                           |
| 15              | 64QAM      | 1       | 37        |                          | 21.57                       |                           |
| 15              | 64QAM      | 1       | 74        |                          | 21.85                       |                           |
| 15              | 64QAM      | 36      | 0         |                          | 20.59                       |                           |
| 15              | 64QAM      | 36      | 20        |                          | 20.63                       |                           |
| 15              | 64QAM      | 36      | 39        |                          | 20.52                       |                           |
| 15              | 64QAM      | 75      | 0         |                          | 20.52                       |                           |
| 15              | 256QAM     | 1       | 0         |                          | 18.60                       |                           |
| 15              | 256QAM     | 1       | 37        |                          | 18.53                       |                           |
| 15              | 256QAM     | 1       | 74        |                          | 18.49                       |                           |
| 15              | 256QAM     | 36      | 0         |                          | 18.47                       |                           |
| 15              | 256QAM     | 36      | 20        |                          | 18.38                       |                           |
| 15              | 256QAM     | 36      | 39        |                          | 18.56                       |                           |
| 15              | 256QAM     | 75      | 0         |                          | 18.45                       |                           |
| Channel         |            |         |           |                          | 26740                       |                           |
| Frequency (MHz) |            |         |           |                          | 819                         |                           |
| 10              | QPSK       | 1       | 0         |                          | 23.59                       |                           |
| 10              | QPSK       | 1       | 25        |                          | 23.58                       |                           |
| 10              | QPSK       | 1       | 49        |                          | 23.42                       |                           |
| 10              | QPSK       | 25      | 0         |                          | 22.53                       |                           |
| 10              | QPSK       | 25      | 12        |                          | 22.54                       |                           |



|                 |        |    |    |       |       |       |
|-----------------|--------|----|----|-------|-------|-------|
| 10              | QPSK   | 25 | 25 |       | 22.52 |       |
| 10              | QPSK   | 50 | 0  |       | 22.50 |       |
| 10              | 16QAM  | 1  | 0  |       | 22.92 |       |
| 10              | 16QAM  | 1  | 25 |       | 22.99 |       |
| 10              | 16QAM  | 1  | 49 |       | 22.49 |       |
| 10              | 16QAM  | 25 | 0  |       | 21.63 |       |
| 10              | 16QAM  | 25 | 12 |       | 21.66 |       |
| 10              | 16QAM  | 25 | 25 |       | 21.48 |       |
| 10              | 16QAM  | 50 | 0  |       | 21.57 |       |
| 10              | 64QAM  | 1  | 0  |       | 21.82 |       |
| 10              | 64QAM  | 1  | 25 |       | 21.63 |       |
| 10              | 64QAM  | 1  | 49 |       | 21.79 |       |
| 10              | 64QAM  | 25 | 0  |       | 20.61 |       |
| 10              | 64QAM  | 25 | 12 |       | 20.60 |       |
| 10              | 64QAM  | 25 | 25 |       | 20.47 |       |
| 10              | 64QAM  | 50 | 0  |       | 20.49 |       |
| 10              | 256QAM | 1  | 0  |       | 18.57 |       |
| 10              | 256QAM | 1  | 25 |       | 18.53 |       |
| 10              | 256QAM | 1  | 49 |       | 18.54 |       |
| 10              | 256QAM | 25 | 0  |       | 18.44 |       |
| 10              | 256QAM | 25 | 12 |       | 18.48 |       |
| 10              | 256QAM | 25 | 25 |       | 18.51 |       |
| 10              | 256QAM | 50 | 0  |       | 18.48 |       |
| Channel         |        |    |    | 26715 | 26740 | 26765 |
| Frequency (MHz) |        |    |    | 816.5 | 819   | 821.5 |
| 5               | QPSK   | 1  | 0  | 23.52 | 23.54 | 23.61 |
| 5               | QPSK   | 1  | 12 | 23.55 | 23.60 | 23.60 |
| 5               | QPSK   | 1  | 24 | 23.47 | 23.53 | 23.48 |
| 5               | QPSK   | 12 | 0  | 22.53 | 22.58 | 22.62 |
| 5               | QPSK   | 12 | 7  | 22.52 | 22.59 | 22.47 |
| 5               | QPSK   | 12 | 13 | 22.57 | 22.60 | 22.47 |
| 5               | QPSK   | 25 | 0  | 22.54 | 22.53 | 22.54 |
| 5               | 16QAM  | 1  | 0  | 22.97 | 22.88 | 22.95 |
| 5               | 16QAM  | 1  | 12 | 22.90 | 22.86 | 22.96 |
| 5               | 16QAM  | 1  | 24 | 22.48 | 22.49 | 22.60 |
| 5               | 16QAM  | 12 | 0  | 21.56 | 21.63 | 21.56 |
| 5               | 16QAM  | 12 | 7  | 21.67 | 21.69 | 21.59 |
| 5               | 16QAM  | 12 | 13 | 21.49 | 21.53 | 21.49 |
| 5               | 16QAM  | 25 | 0  | 21.60 | 21.53 | 21.55 |
| 5               | 64QAM  | 1  | 0  | 21.76 | 21.82 | 21.71 |
| 5               | 64QAM  | 1  | 12 | 21.51 | 21.60 | 21.59 |
| 5               | 64QAM  | 1  | 24 | 21.76 | 21.74 | 21.81 |
| 5               | 64QAM  | 12 | 0  | 20.51 | 20.63 | 20.59 |
| 5               | 64QAM  | 12 | 7  | 20.55 | 20.55 | 20.64 |
| 5               | 64QAM  | 12 | 13 | 20.53 | 20.56 | 20.46 |
| 5               | 64QAM  | 25 | 0  | 20.48 | 20.49 | 20.60 |
| 5               | 256QAM | 1  | 0  | 18.58 | 18.54 | 18.56 |
| 5               | 256QAM | 1  | 12 | 18.44 | 18.41 | 18.53 |
| 5               | 256QAM | 1  | 24 | 18.52 | 18.45 | 18.53 |
| 5               | 256QAM | 12 | 0  | 18.47 | 18.44 | 18.45 |



|                 |        |    |    |       |       |       |
|-----------------|--------|----|----|-------|-------|-------|
| 5               | 256QAM | 12 | 7  | 18.44 | 18.46 | 18.45 |
| 5               | 256QAM | 12 | 13 | 18.47 | 18.48 | 18.52 |
| 5               | 256QAM | 25 | 0  | 18.50 | 18.46 | 18.49 |
| Channel         |        |    |    | 26705 | 26740 | 26775 |
| Frequency (MHz) |        |    |    | 815.5 | 819   | 822.5 |
| 3               | QPSK   | 1  | 0  | 23.58 | 23.53 | 23.54 |
| 3               | QPSK   | 1  | 8  | 23.56 | 23.51 | 23.59 |
| 3               | QPSK   | 1  | 14 | 23.51 | 23.42 | 23.51 |
| 3               | QPSK   | 8  | 0  | 22.62 | 22.52 | 22.61 |
| 3               | QPSK   | 8  | 4  | 22.49 | 22.59 | 22.58 |
| 3               | QPSK   | 8  | 7  | 22.50 | 22.57 | 22.49 |
| 3               | QPSK   | 15 | 0  | 22.53 | 22.56 | 22.57 |
| 3               | 16QAM  | 1  | 0  | 22.96 | 22.91 | 22.99 |
| 3               | 16QAM  | 1  | 8  | 22.96 | 22.91 | 22.98 |
| 3               | 16QAM  | 1  | 14 | 22.60 | 22.52 | 22.50 |
| 3               | 16QAM  | 8  | 0  | 21.60 | 21.54 | 21.62 |
| 3               | 16QAM  | 8  | 4  | 21.68 | 21.63 | 21.62 |
| 3               | 16QAM  | 8  | 7  | 21.59 | 21.59 | 21.53 |
| 3               | 16QAM  | 15 | 0  | 21.49 | 21.54 | 21.55 |
| 3               | 64QAM  | 1  | 0  | 21.76 | 21.79 | 21.73 |
| 3               | 64QAM  | 1  | 8  | 21.58 | 21.54 | 21.53 |
| 3               | 64QAM  | 1  | 14 | 21.81 | 21.75 | 21.83 |
| 3               | 64QAM  | 8  | 0  | 20.59 | 20.63 | 20.56 |
| 3               | 64QAM  | 8  | 4  | 20.58 | 20.59 | 20.58 |
| 3               | 64QAM  | 8  | 7  | 20.58 | 20.50 | 20.47 |
| 3               | 64QAM  | 15 | 0  | 20.51 | 20.52 | 20.51 |
| 3               | 256QAM | 1  | 0  | 18.60 | 18.59 | 18.59 |
| 3               | 256QAM | 1  | 8  | 18.41 | 18.45 | 18.41 |
| 3               | 256QAM | 1  | 14 | 18.53 | 18.45 | 18.52 |
| 3               | 256QAM | 8  | 0  | 18.37 | 18.43 | 18.50 |
| 3               | 256QAM | 8  | 4  | 18.50 | 18.42 | 18.43 |
| 3               | 256QAM | 8  | 7  | 18.51 | 18.53 | 18.57 |
| 3               | 256QAM | 15 | 0  | 18.53 | 18.50 | 18.49 |
| Channel         |        |    |    | 26697 | 26740 | 26783 |
| Frequency (MHz) |        |    |    | 814.7 | 819   | 823.3 |
| 1.4             | QPSK   | 1  | 0  | 23.53 | 23.46 | 23.51 |
| 1.4             | QPSK   | 1  | 3  | 23.49 | 23.42 | 23.39 |
| 1.4             | QPSK   | 1  | 5  | 23.42 | 23.34 | 23.33 |
| 1.4             | QPSK   | 3  | 0  | 23.40 | 23.37 | 23.35 |
| 1.4             | QPSK   | 3  | 1  | 23.52 | 23.57 | 23.53 |
| 1.4             | QPSK   | 3  | 3  | 23.36 | 23.38 | 23.30 |
| 1.4             | QPSK   | 6  | 0  | 22.42 | 22.37 | 22.47 |
| 1.4             | 16QAM  | 1  | 0  | 22.35 | 22.35 | 22.33 |
| 1.4             | 16QAM  | 1  | 3  | 22.52 | 22.41 | 22.46 |
| 1.4             | 16QAM  | 1  | 5  | 22.39 | 22.38 | 22.44 |
| 1.4             | 16QAM  | 3  | 0  | 22.88 | 22.84 | 22.90 |
| 1.4             | 16QAM  | 3  | 1  | 22.80 | 22.81 | 22.89 |
| 1.4             | 16QAM  | 3  | 3  | 22.45 | 22.46 | 22.45 |
| 1.4             | 16QAM  | 6  | 0  | 21.46 | 21.45 | 21.43 |
| 1.4             | 64QAM  | 1  | 0  | 21.50 | 21.41 | 21.42 |





|     |        |   |   |       |       |       |
|-----|--------|---|---|-------|-------|-------|
| 1.4 | 64QAM  | 1 | 3 | 21.38 | 21.37 | 21.43 |
| 1.4 | 64QAM  | 1 | 5 | 21.47 | 21.45 | 21.38 |
| 1.4 | 64QAM  | 3 | 0 | 21.77 | 21.69 | 21.81 |
| 1.4 | 64QAM  | 3 | 1 | 21.50 | 21.54 | 21.47 |
| 1.4 | 64QAM  | 3 | 3 | 21.62 | 21.63 | 21.63 |
| 1.4 | 64QAM  | 6 | 0 | 20.49 | 20.50 | 20.54 |
| 1.4 | 256QAM | 1 | 0 | 18.52 | 18.44 | 18.52 |
| 1.4 | 256QAM | 1 | 3 | 18.36 | 18.38 | 18.27 |
| 1.4 | 256QAM | 1 | 5 | 18.39 | 18.35 | 18.37 |
| 1.4 | 256QAM | 3 | 0 | 18.29 | 18.30 | 18.25 |
| 1.4 | 256QAM | 3 | 1 | 18.46 | 18.34 | 18.47 |
| 1.4 | 256QAM | 3 | 3 | 18.45 | 18.40 | 18.46 |
| 1.4 | 256QAM | 6 | 0 | 18.42 | 18.39 | 18.38 |



## LTE Band 26\_Part 90S

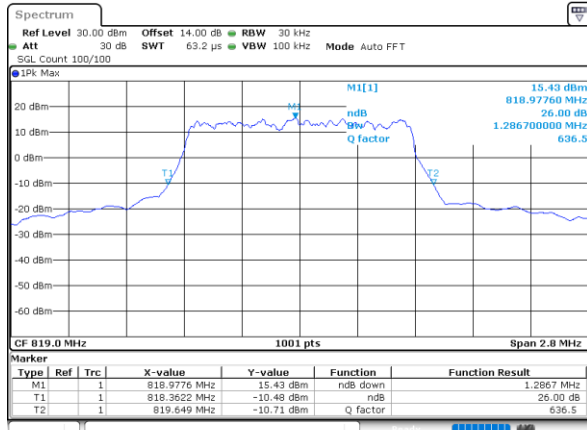
## 26dB Bandwidth

| Mode      | LTE Band 26 : 26dB BW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|-----------|----------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW        | 1.4MHz                     |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.      | QPSK                       | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Middle CH | 1.29                       | 1.29  | 3.01 | 2.94  | 4.87 | 4.91  | 9.79  | 9.75  | 14.51 | 14.45 | -     | -     |



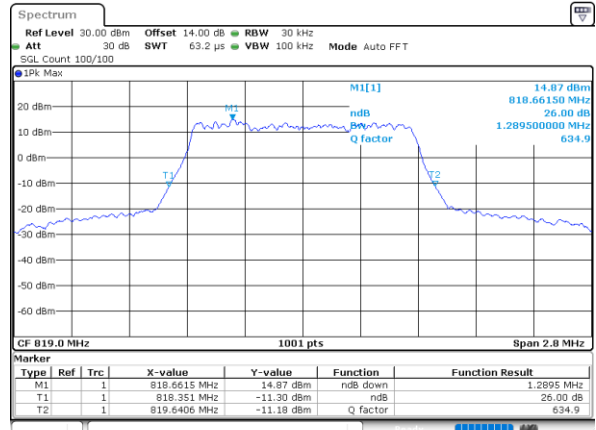
## LTE Band 26

## Middle Channel / 1.4MHz / QPSK



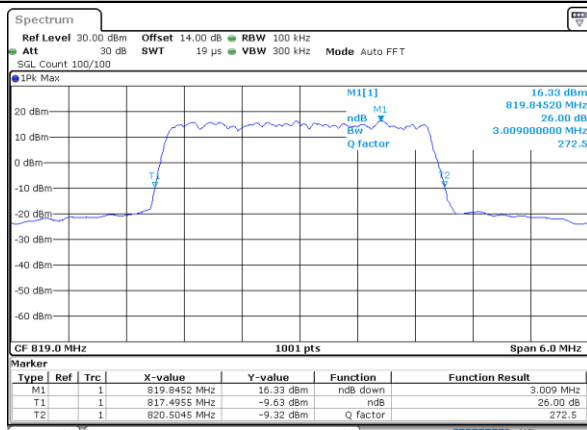
Date: 15.JUL.2025 03:58:11

## Middle Channel / 1.4MHz / 16QAM



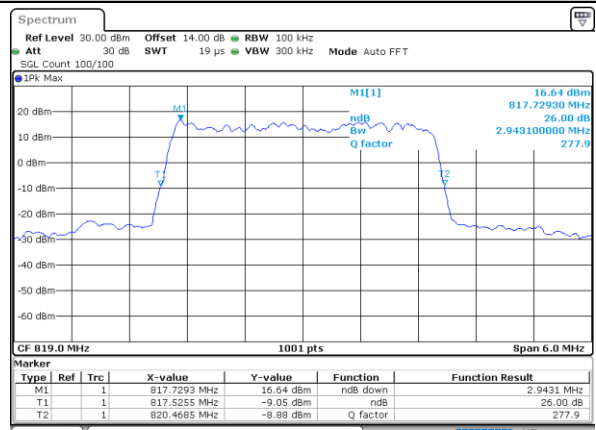
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## Middle Channel / 3MHz / QPSK



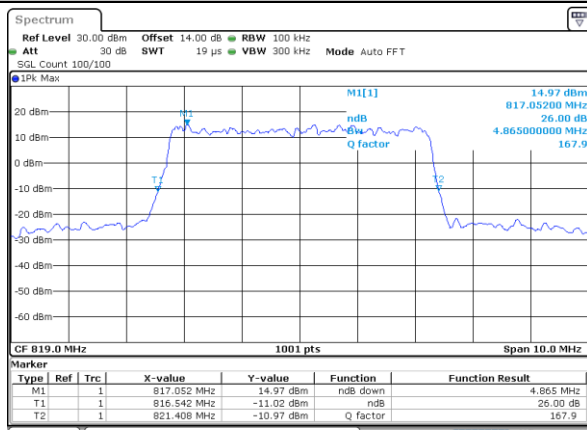
Date: 15.JUL.2025 04:12:24

## Middle Channel / 3MHz / 16QAM



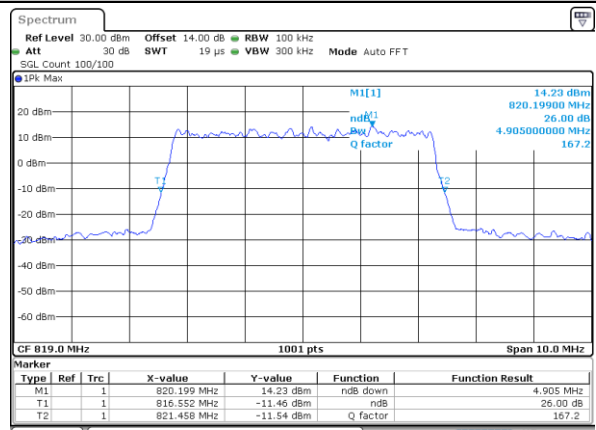
Date: 15.JUL.2025 04:13:05

## Middle Channel / 5MHz / QPSK



Date: 15.JUL.2025 04:26:38

## Middle Channel / 5MHz / 16QAM

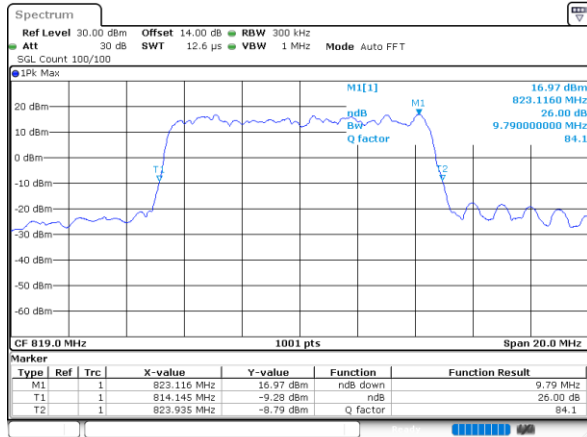


Date: 15.JUL.2025 04:27:18

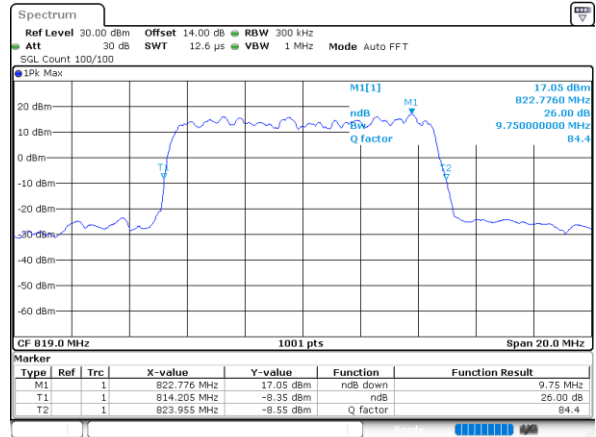


## LTE Band 26

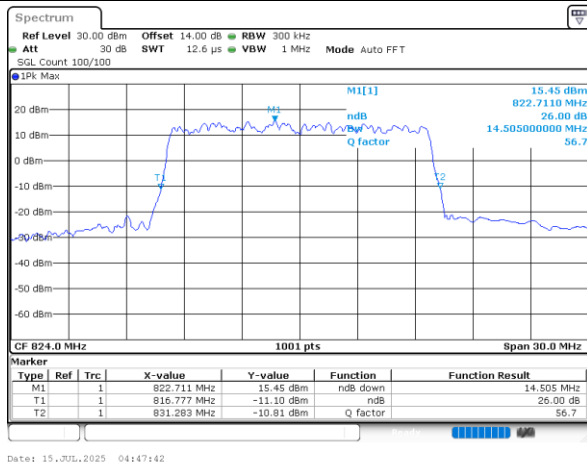
## Middle Channel / 10MHz / QPSK



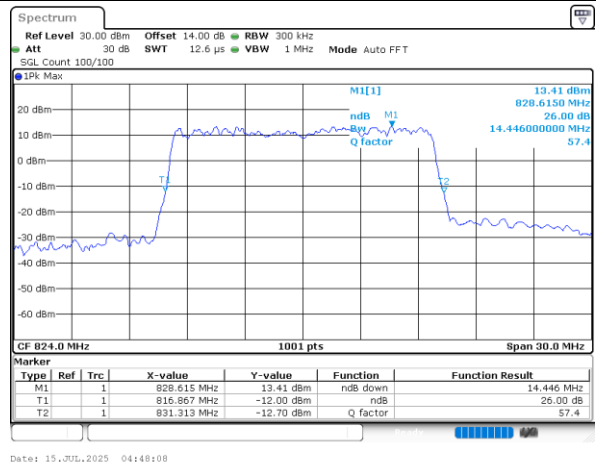
## Middle Channel / 10MHz / 16QAM



## Middle Channel / 15MHz / QPSK



## Middle Channel / 15MHz / 16QAM





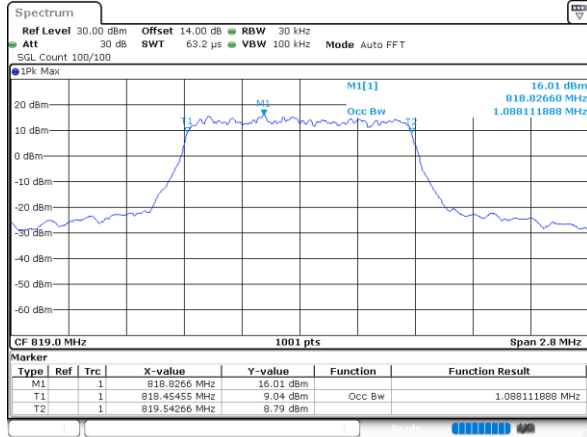
## Occupied Bandwidth

| Mode      | LTE Band 26 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|-----------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW        | 1.4MHz                    |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.      | QPSK                      | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Middle CH | 1.09                      | 1.09  | 2.72 | 2.72  | 4.48 | 4.50  | 8.99  | 8.99  | 13.40 | 13.49 | -     | -     |

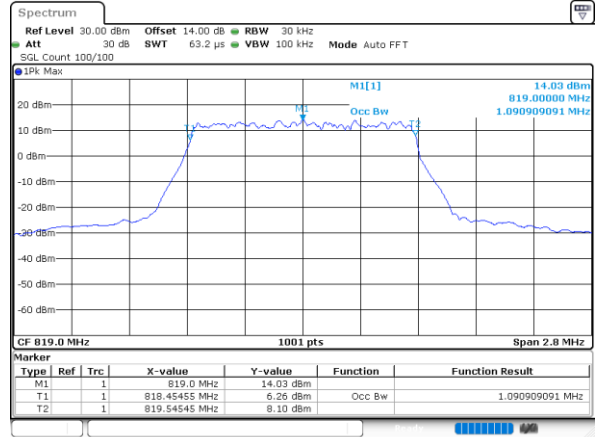


## LTE Band 26

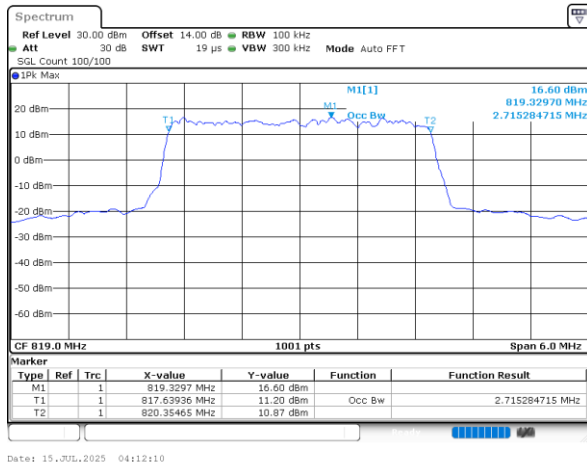
## Middle Channel / 1.4MHz / QPSK



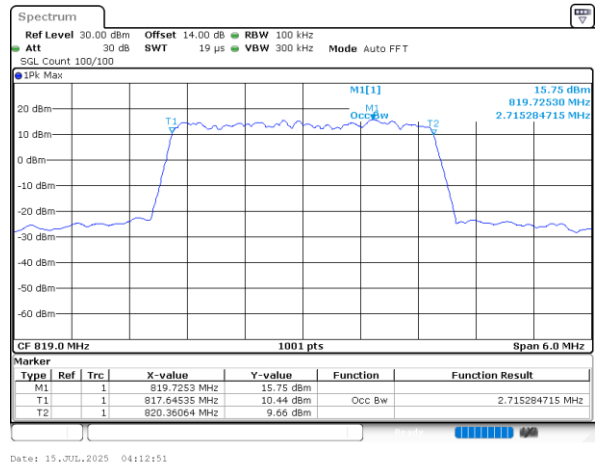
## Middle Channel / 1.4MHz / 16QAM



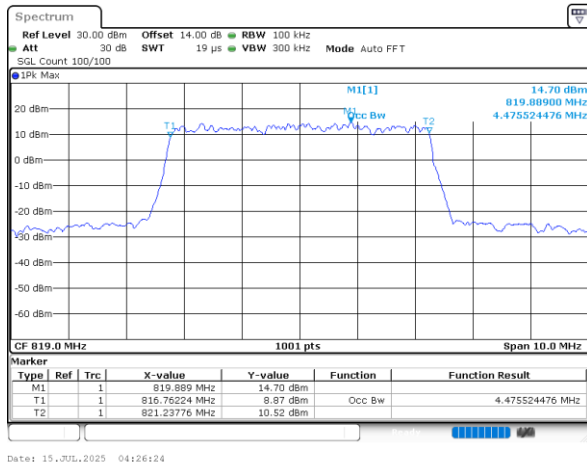
## Middle Channel / 3MHz / QPSK



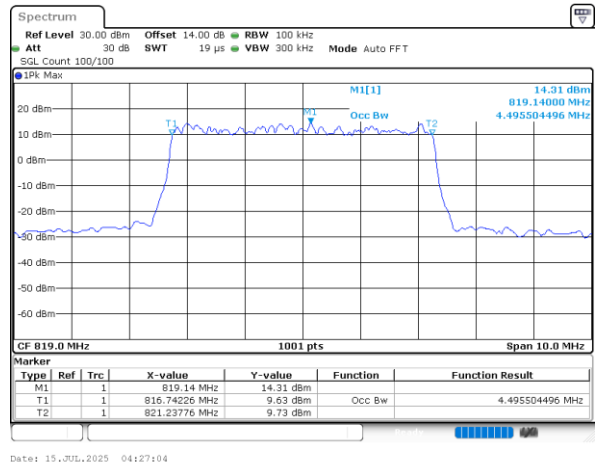
## Middle Channel / 3MHz / 16QAM



## Middle Channel / 5MHz / QPSK



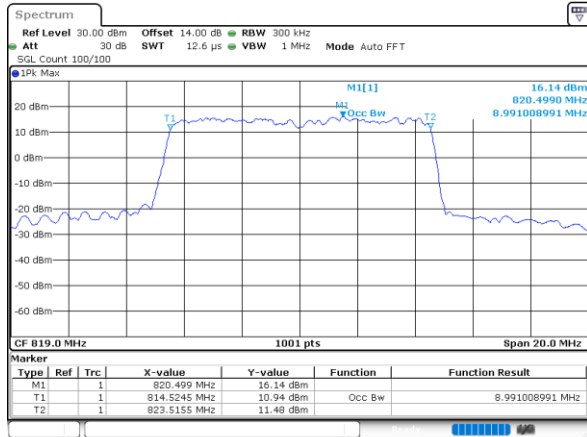
## Middle Channel / 5MHz / 16QAM



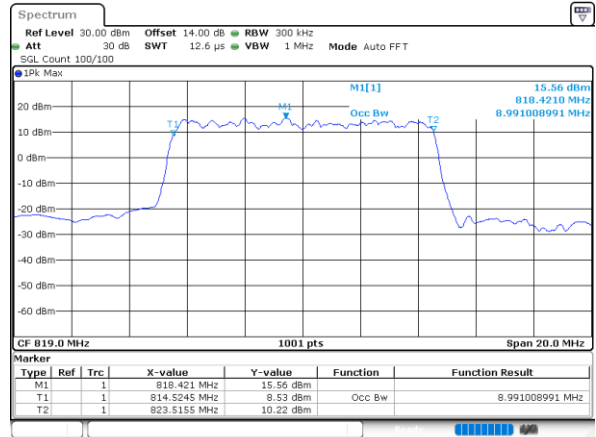


## LTE Band 26

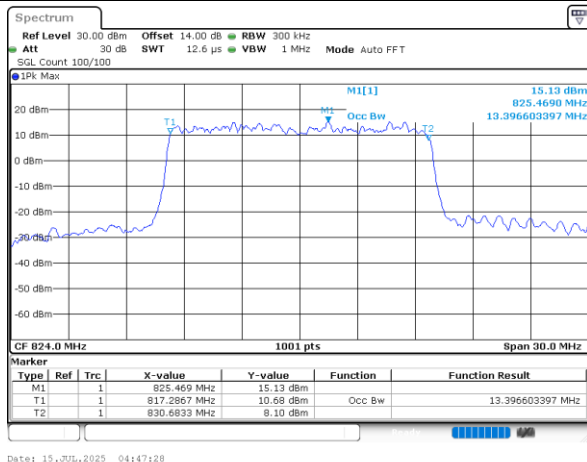
## Middle Channel / 10MHz / QPSK



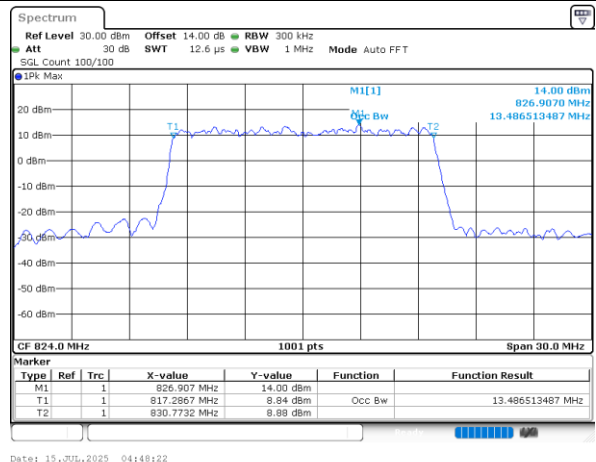
## Middle Channel / 10MHz / 16QAM



## Middle Channel / 15MHz / QPSK



## Middle Channel / 15MHz / 16QAM

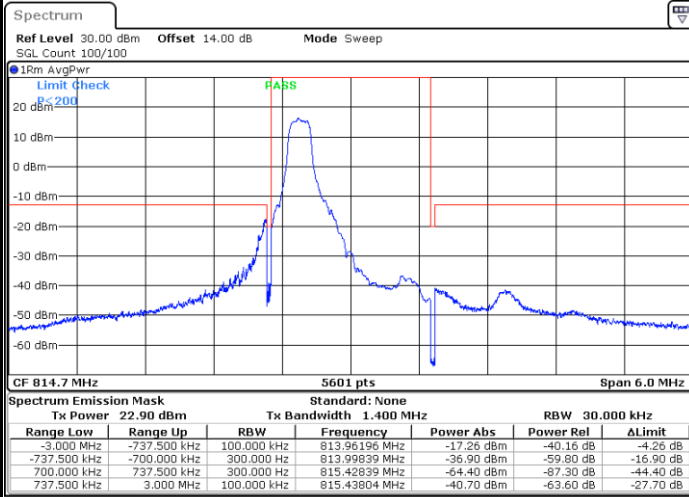




# Emission masks – In-band emissions

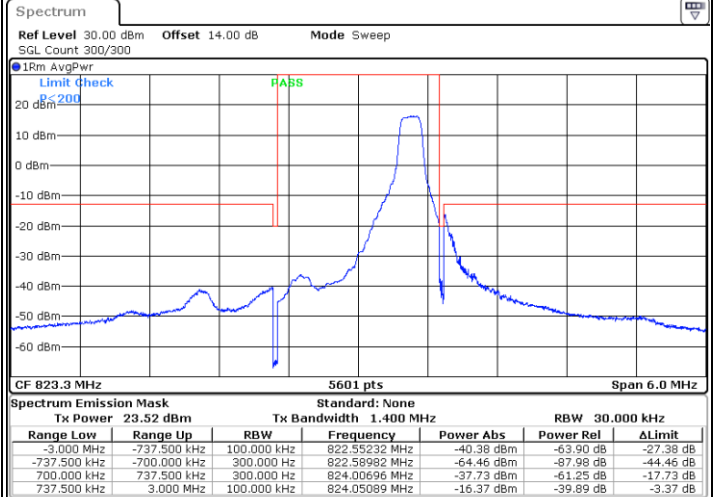
## LTE Band 26 / 1.4MHz / QPSK

### Lowest Band Edge / 1RB



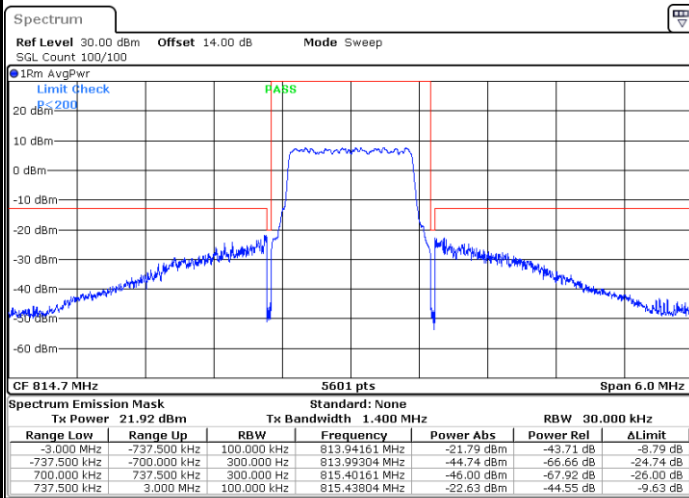
Date: 15.JUL.2025 03:51:40

### Highest Band Edge / 1RB



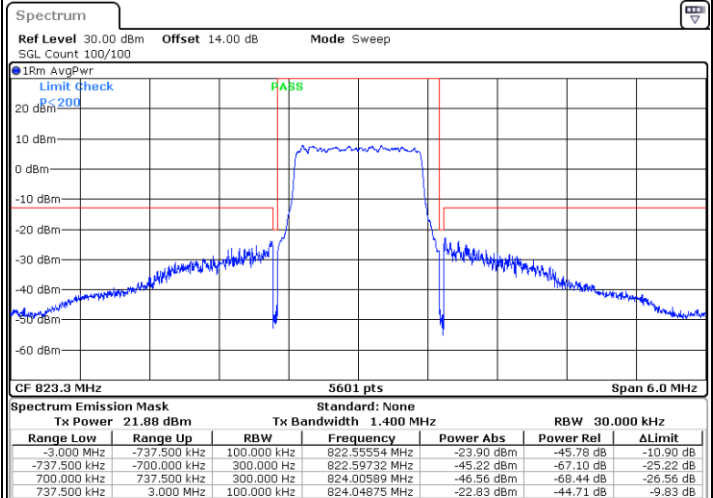
Date: 15.JUL.2025 15:54:16

### Lowest Band Edge / Full RB



Date: 15.JUL.2025 03:55:27

### Highest Band Edge / Full RB



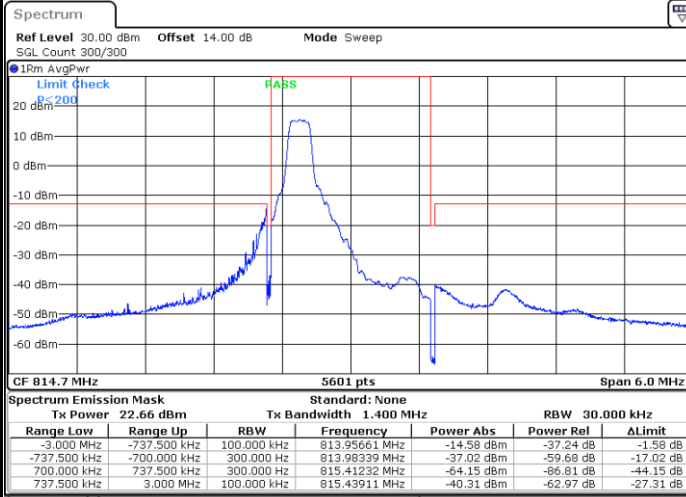
Date: 15.JUL.2025 04:03:22



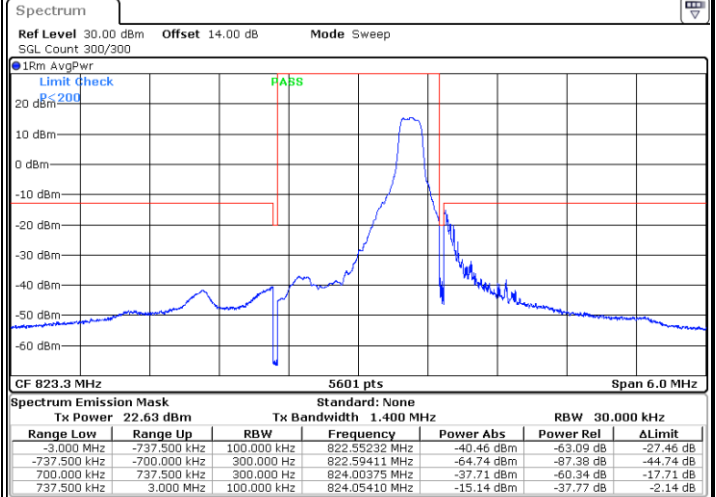


## LTE Band 26 / 1.4MHz / 16QAM

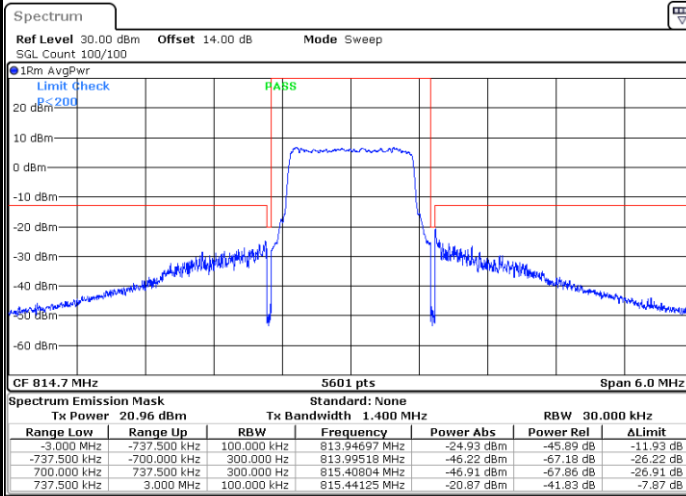
## Lowest Band Edge / 1 RB



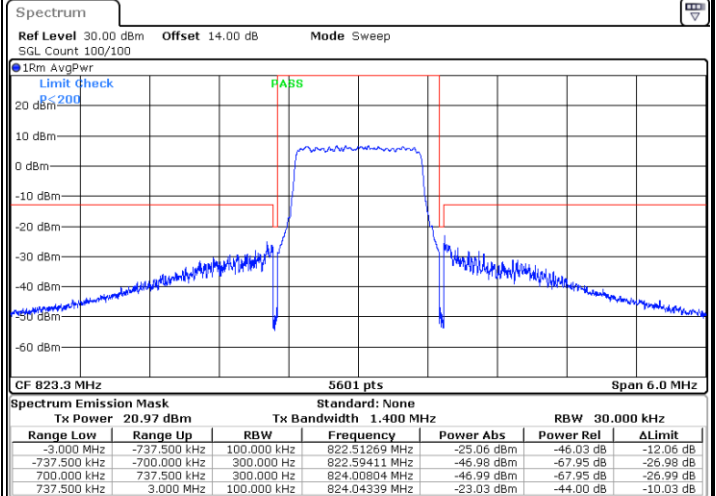
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



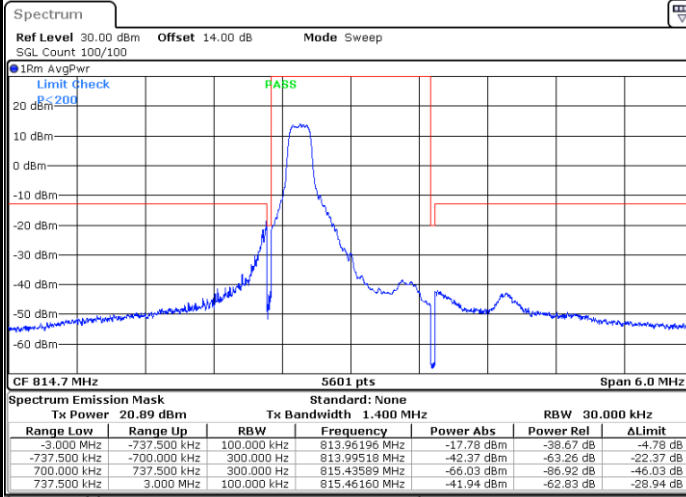
## Highest Band Edge / Full RB





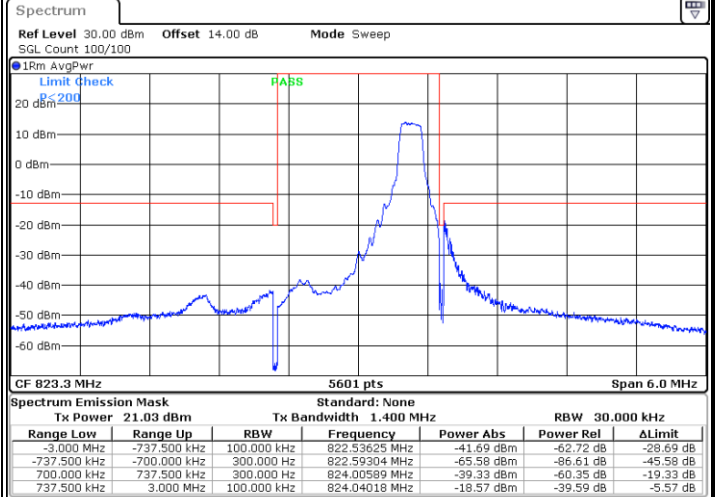
## LTE Band 26 / 1.4MHz / 64QAM

## Lowest Band Edge / 1 RB



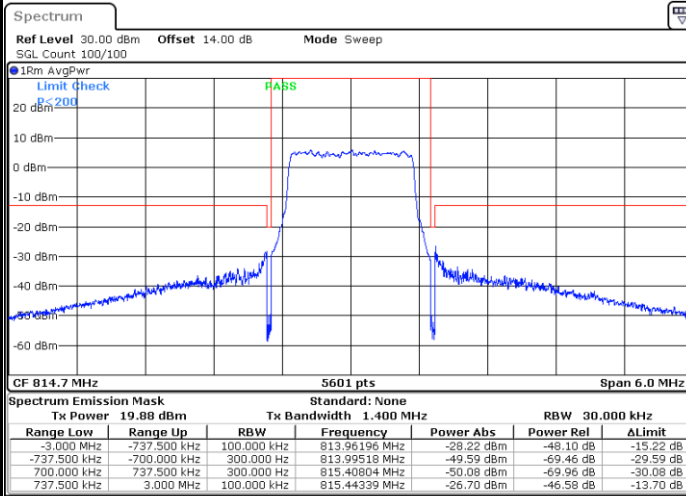
Date: 15.JUL.2025 03:53:10

## Highest Band Edge / 1 RB



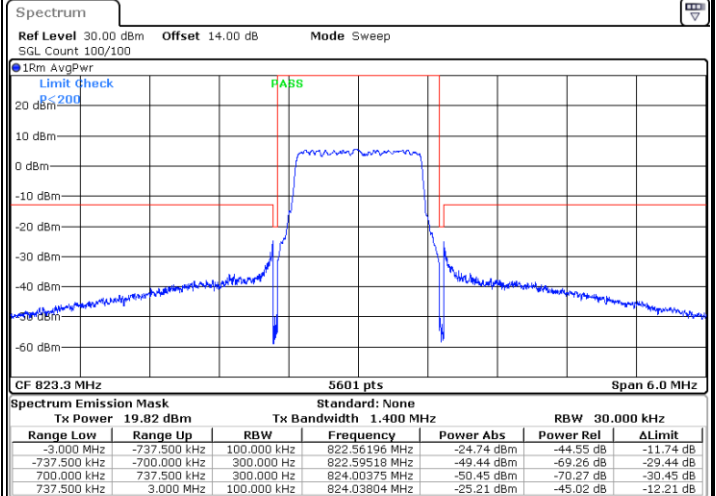
Date: 15.JUL.2025 04:01:06

## Lowest Band Edge / Full RB



Date: 15.JUL.2025 03:53:55

## Highest Band Edge / Full RB

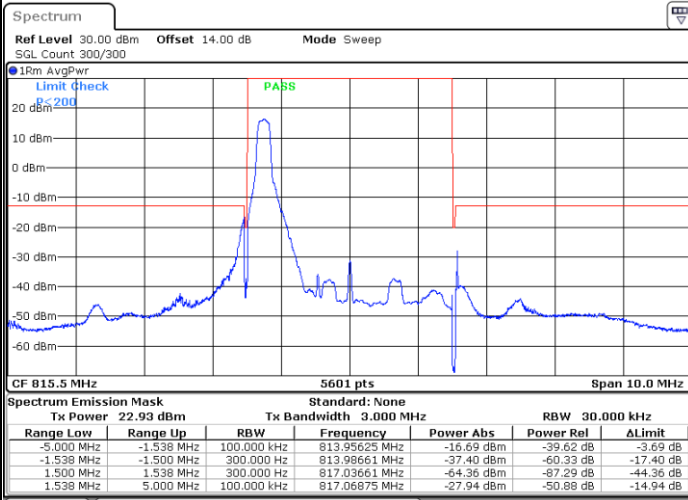


Date: 15.JUL.2025 04:01:51



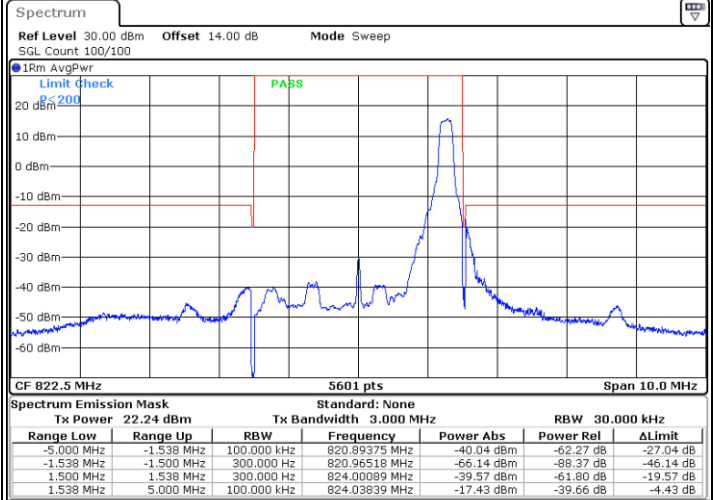
## LTE Band 26 / 3MHz / QPSK

## Lowest Band Edge / 1RB



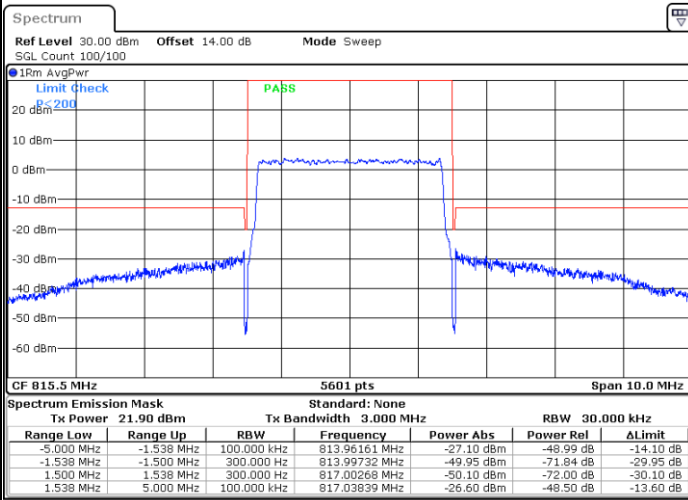
Date: 15.JUL.2025 15:57:12

## Highest Band Edge / 1RB



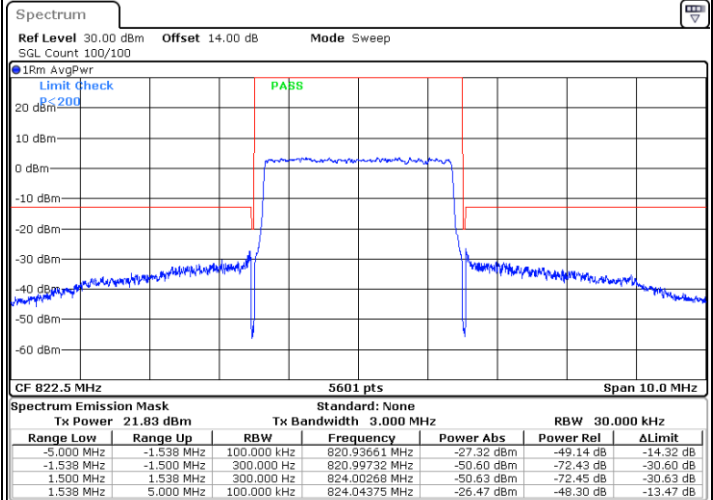
Date: 15.JUL.2025 04:13:49

## Lowest Band Edge / Full RB



Date: 15.JUL.2025 04:09:40

## Highest Band Edge / Full RB

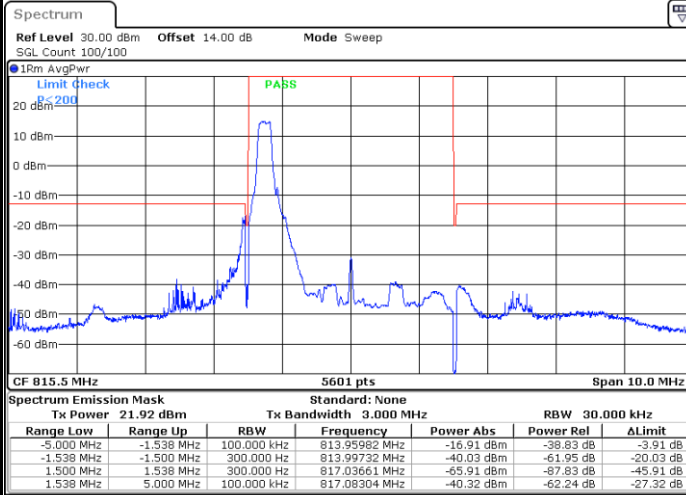


Date: 15.JUL.2025 04:17:37

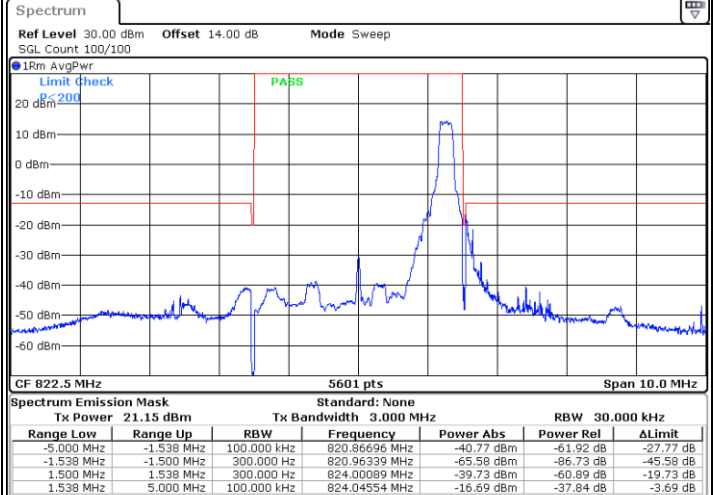


## LTE Band 26 / 3MHz / 16QAM

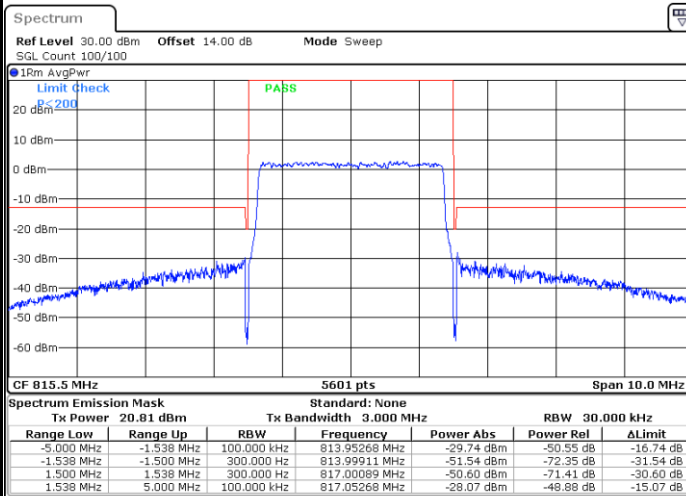
## Lowest Band Edge / 1 RB



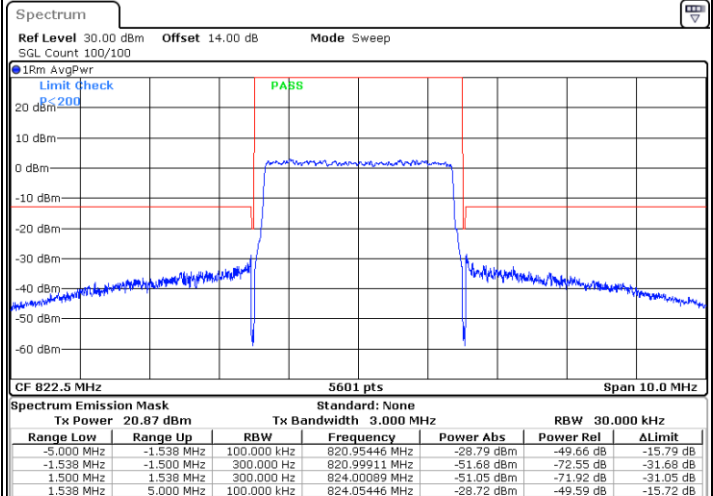
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



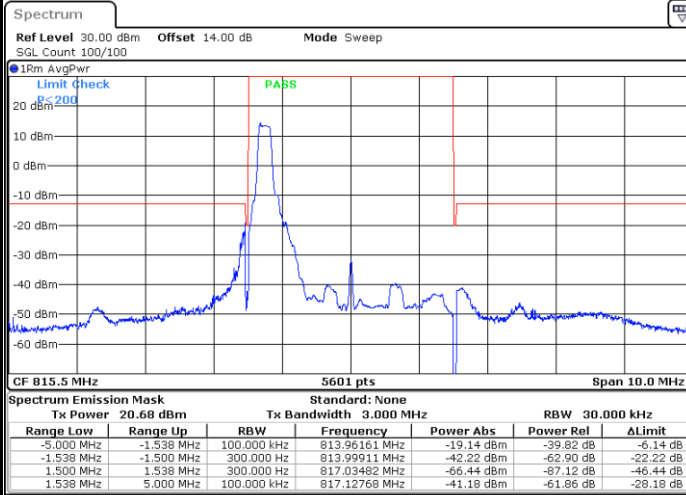
## Highest Band Edge / Full RB





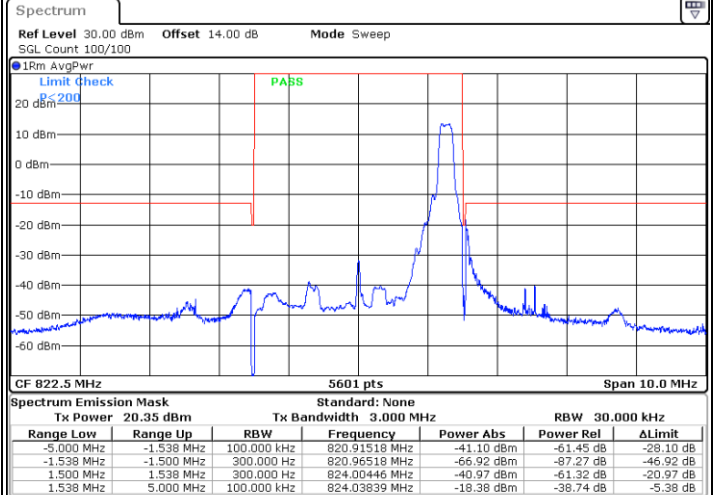
## LTE Band 26 / 3MHz / 64QAM

## Lowest Band Edge / 1 RB



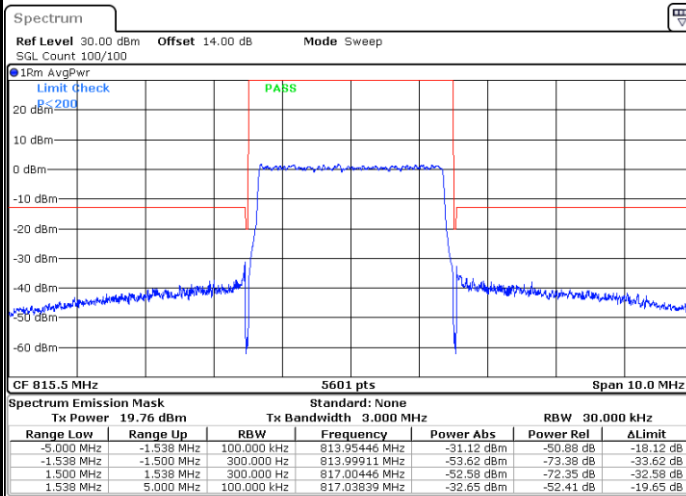
Date: 15.JUL.2025 04:07:23

## Highest Band Edge / 1 RB



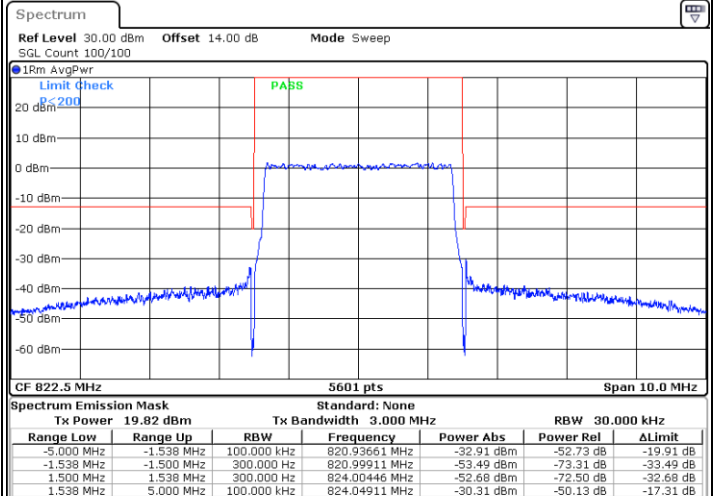
Date: 15.JUL.2025 04:15:20

## Lowest Band Edge / Full RB



Date: 15.JUL.2025 04:08:09

## Highest Band Edge / Full RB

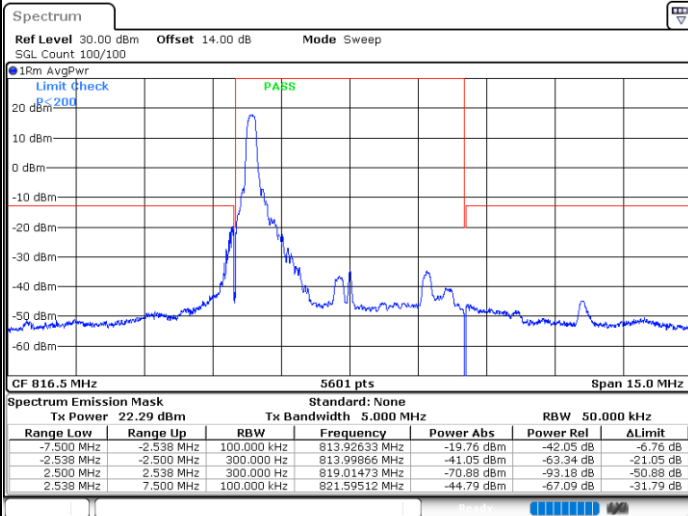


Date: 15.JUL.2025 04:16:06

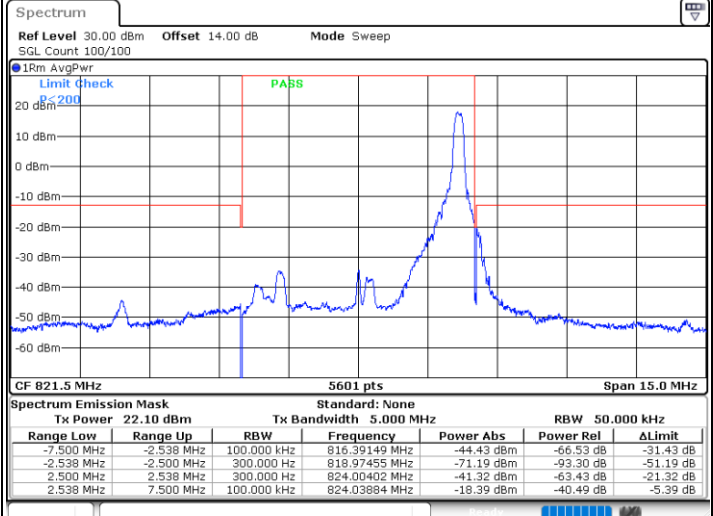


## LTE Band 26 / 5MHz / QPSK

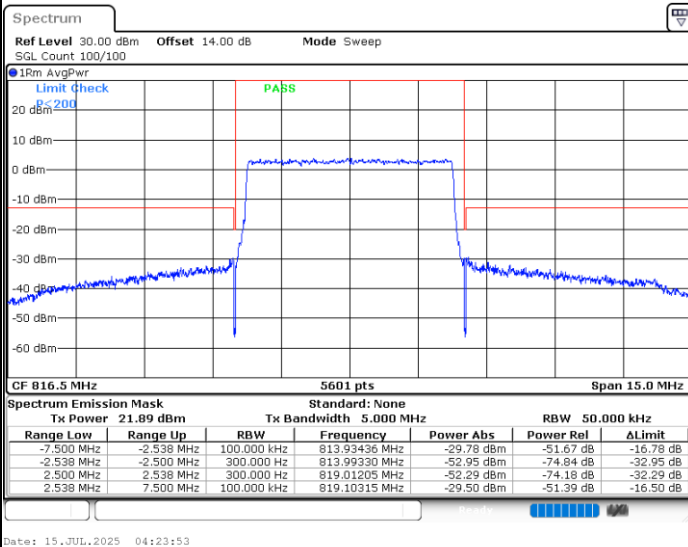
## Lowest Band Edge / 1RB



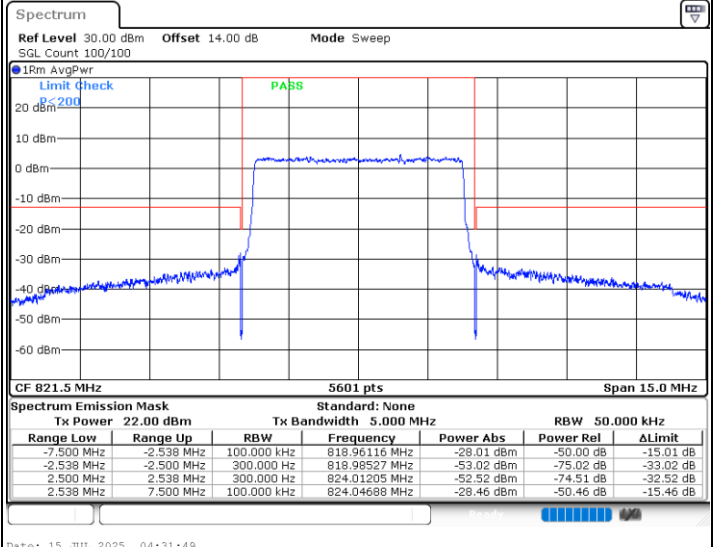
## Highest Band Edge / 1RB



## Lowest Band Edge / Full RB



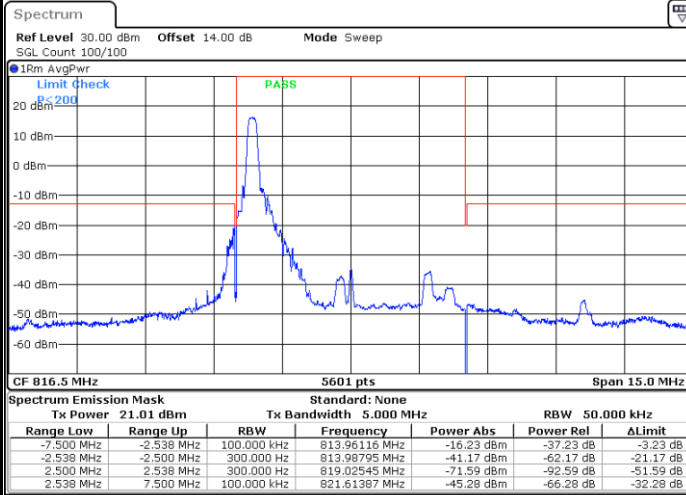
## Highest Band Edge / Full RB



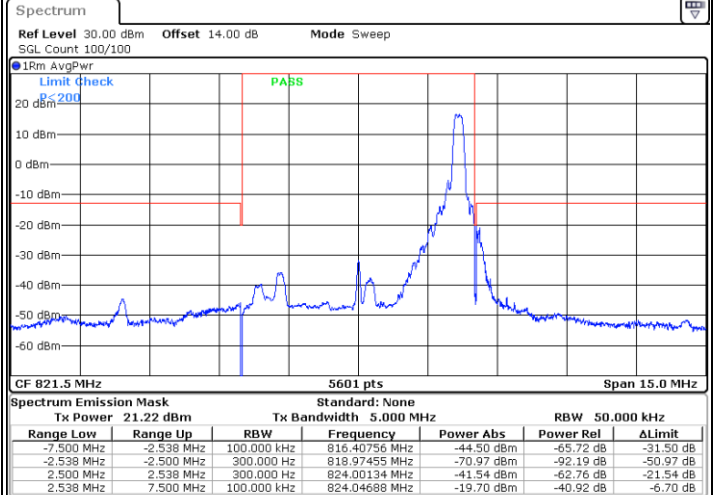


## LTE Band 26 / 5MHz / 16QAM

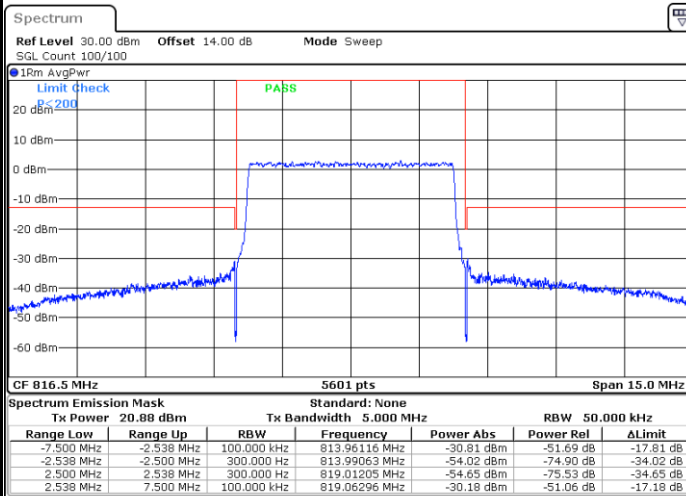
## Lowest Band Edge / 1 RB



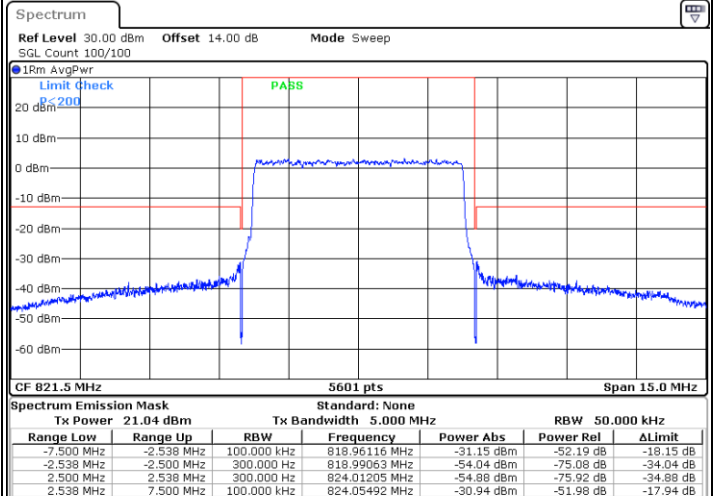
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

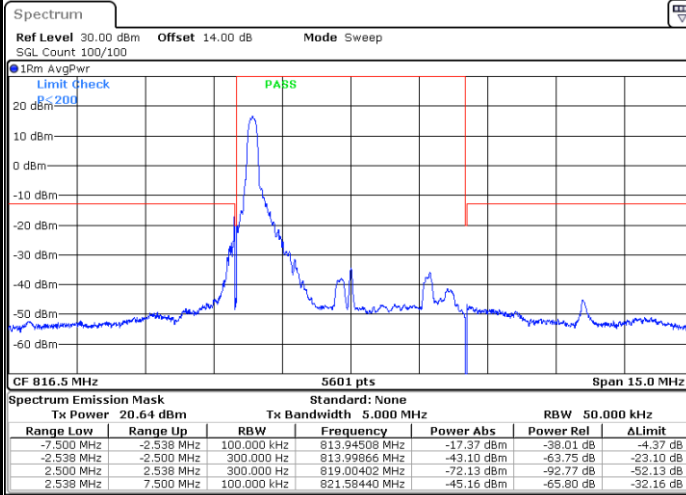






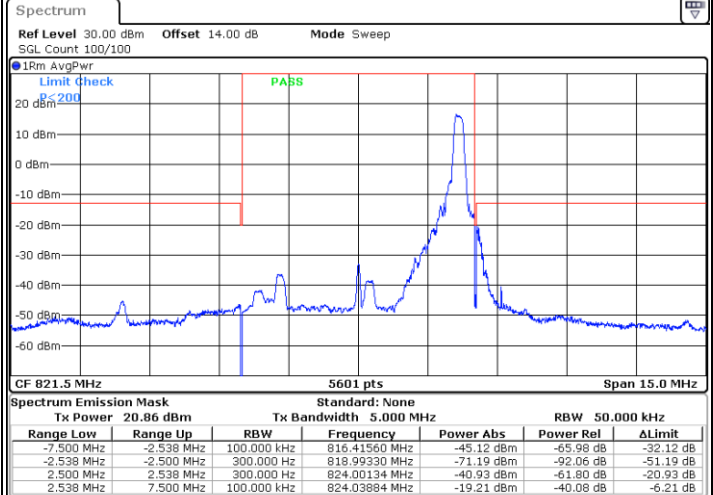
## LTE Band 26 / 5MHz / 64QAM

## Lowest Band Edge / 1 RB



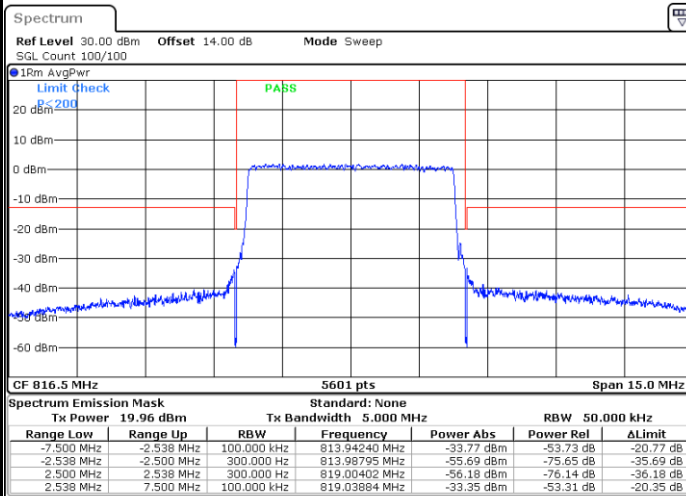
Date: 15.JUL.2025 04:21:37

## Highest Band Edge / 1 RB



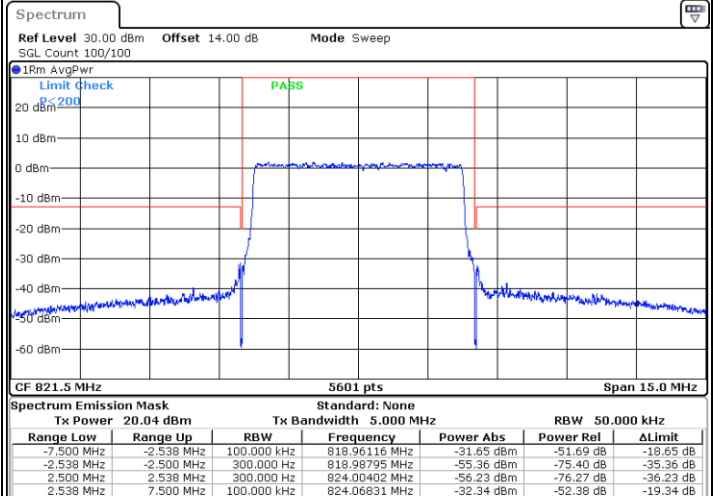
Date: 15.JUL.2025 04:29:33

## Lowest Band Edge / Full RB



Date: 15.JUL.2025 04:22:23

## Highest Band Edge / Full RB



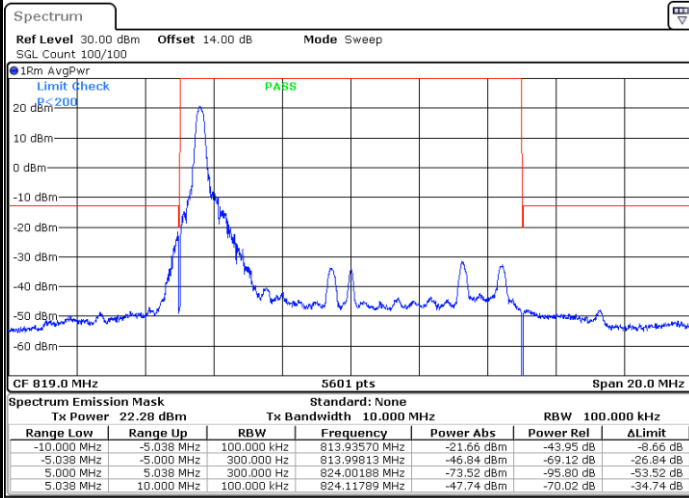
Date: 15.JUL.2025 04:30:18





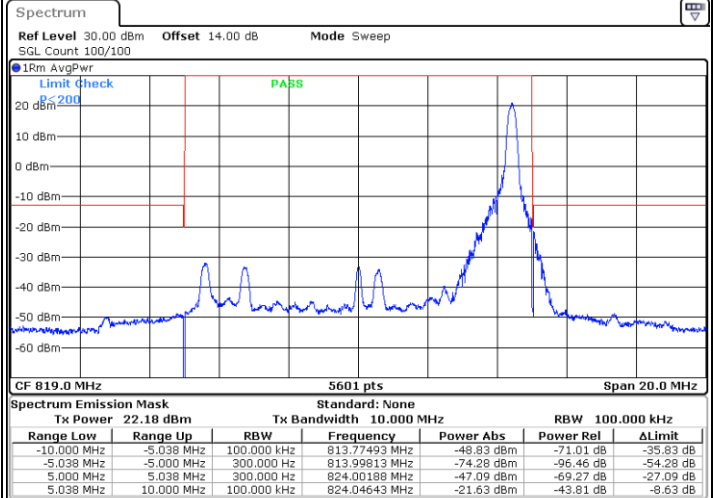
## LTE Band 26 / 10MHz / QPSK

## Lowest Band Edge / 1RB



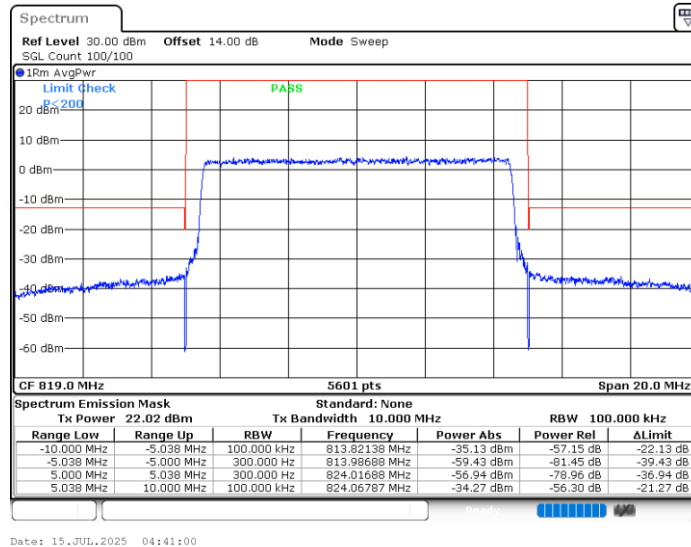
Date: 15.JUL.2025 04:36:29

## Lowest Band Edge / 1RB



Date: 15.JUL.2025 04:40:15

## Lowest Band Edge / Full RB

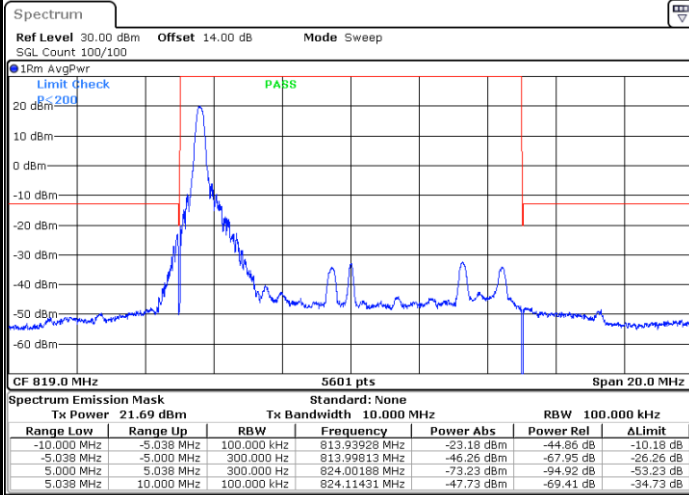


Date: 15.JUL.2025 04:41:00



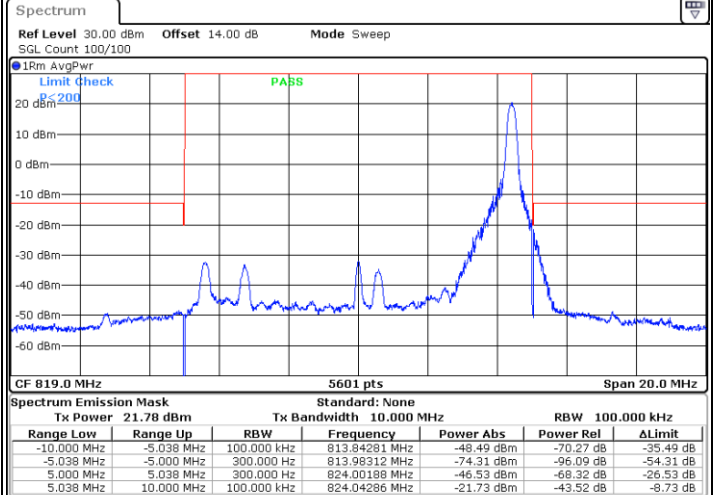
## LTE Band 26 / 10MHz / 16QAM

## Lowest Band Edge / 1 RB



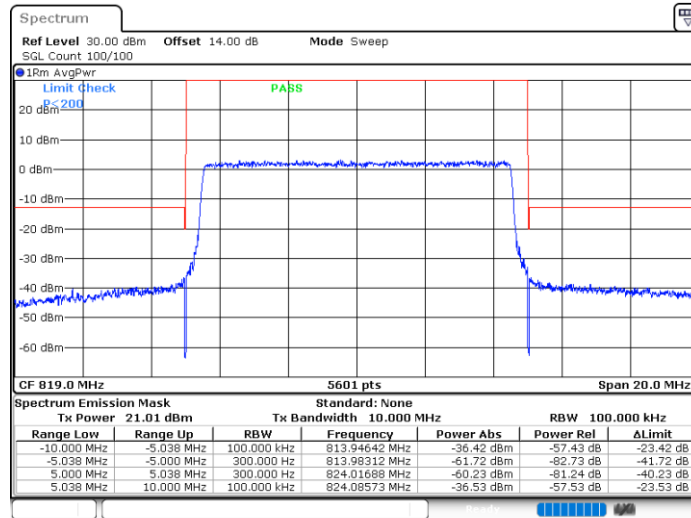
Date: 15.JUL.2025 04:37:14

## Lowest Band Edge / 1 RB



Date: 15.JUL.2025 04:39:30

## Lowest Band Edge / Full RB

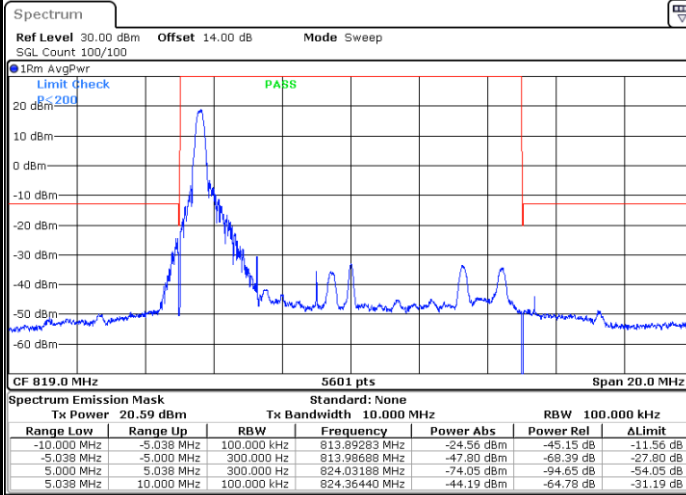


Date: 15.JUL.2025 04:41:45



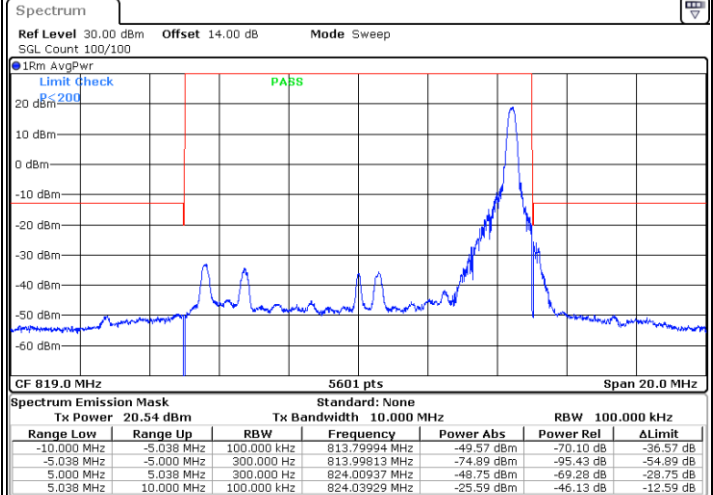
## LTE Band 26 / 10MHz / 64QAM

## Lowest Band Edge / 1 RB



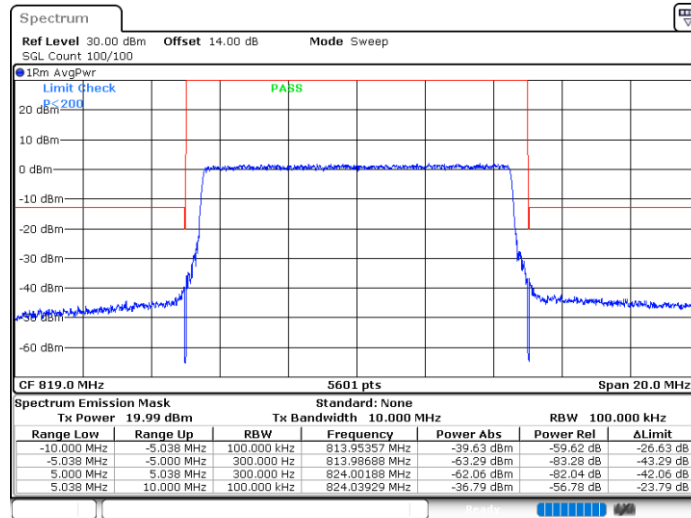
Date: 15.JUL.2025 04:37:59

## Lowest Band Edge / 1 RB



Date: 15.JUL.2025 04:38:44

## Lowest Band Edge / Full RB

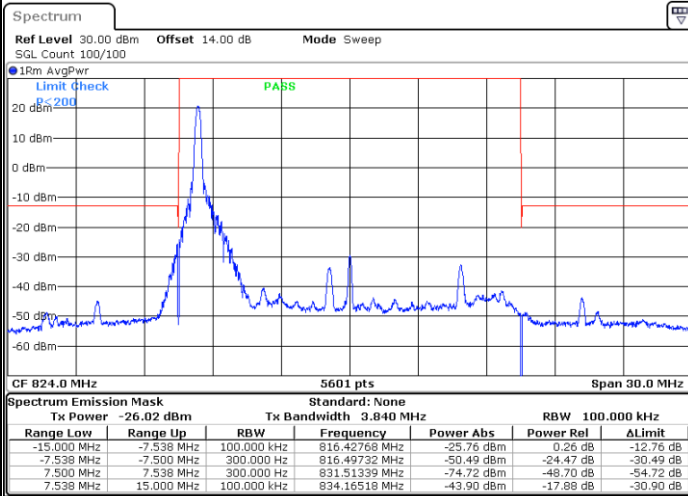


Date: 15.JUL.2025 04:42:30



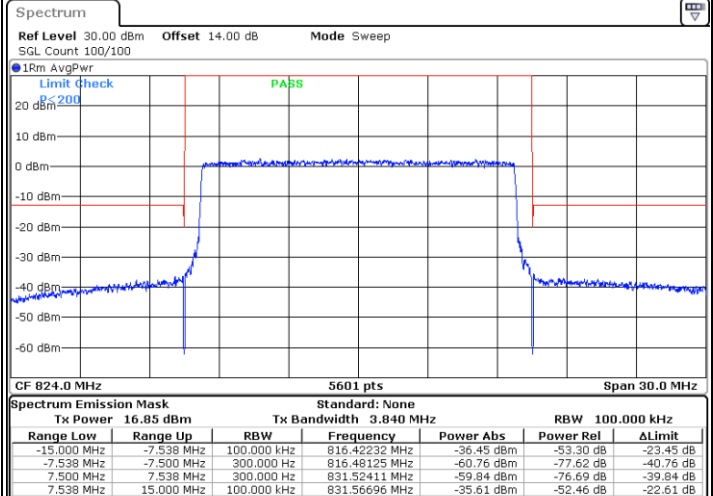
## LTE Band 26 / 15MHz

## Highest Band Edge / 1RB QPSK



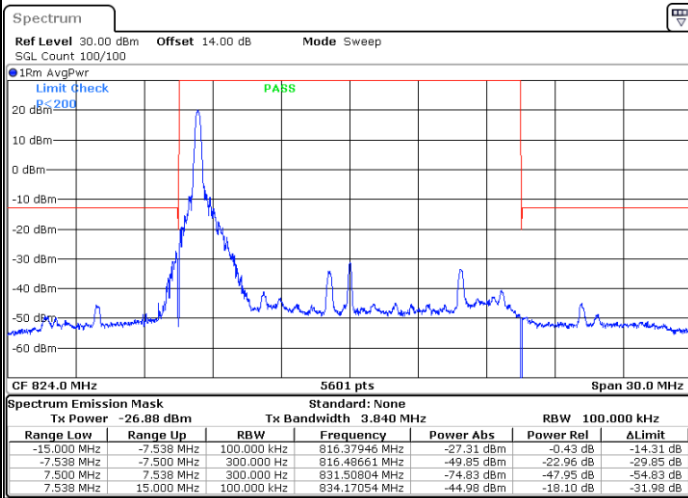
Date: 15.JUL.2025 04:52:50

## Highest Band Edge / Full RB QPSK



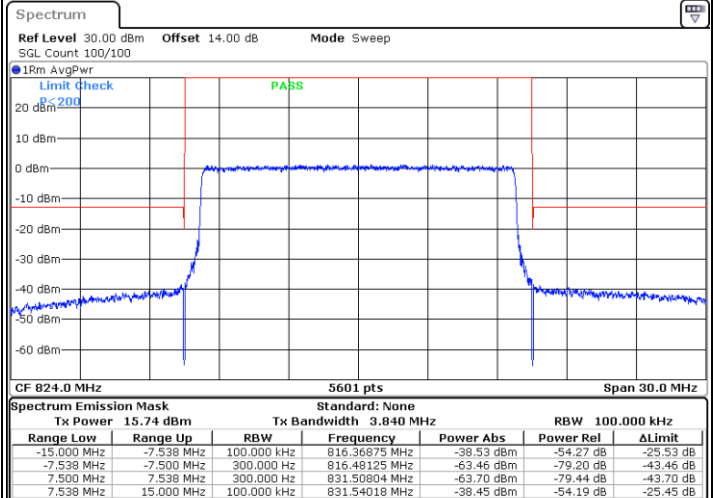
Date: 15.JUL.2025 04:49:06

## Highest Band Edge / 1 RB 16QAM



Date: 15.JUL.2025 04:52:05

## Highest Band Edge / Full RB 16QAM



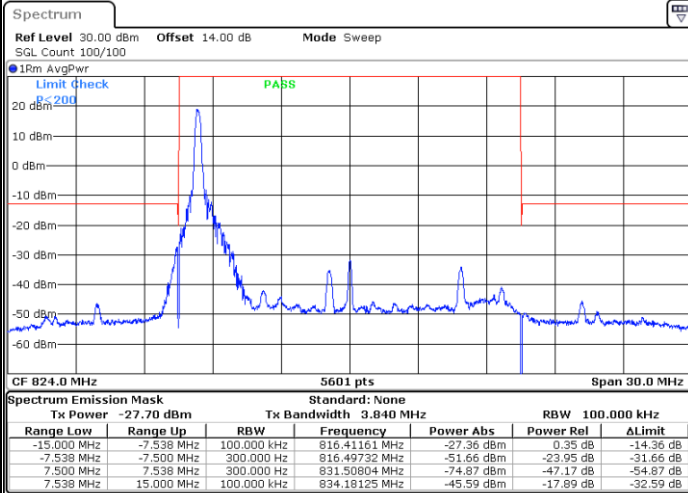
Date: 15.JUL.2025 04:49:50



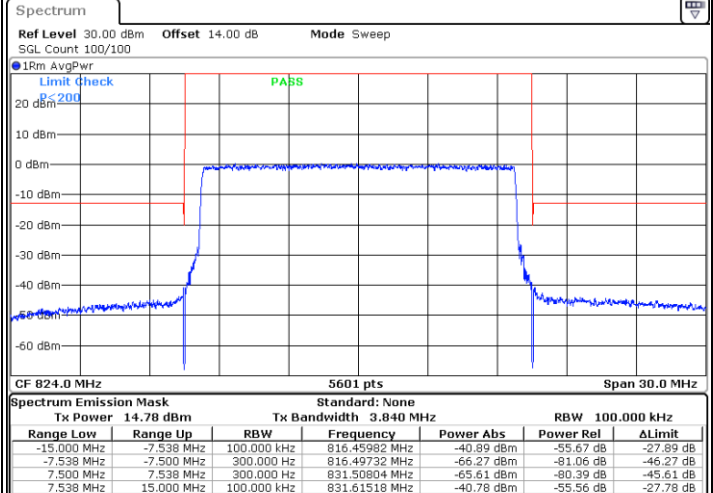
## LTE Band 26 / 15MHz

## Highest Band Edge / 1 RB 64QAM

## Highest Band Edge / Full RB 64QAM



Date: 15.JUL.2025 04:51:20



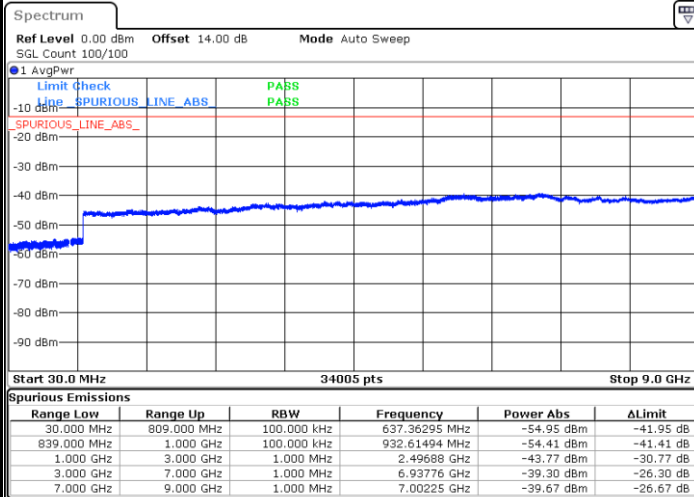
Date: 15.JUL.2025 04:50:35



## Emission masks – Out of band emissions

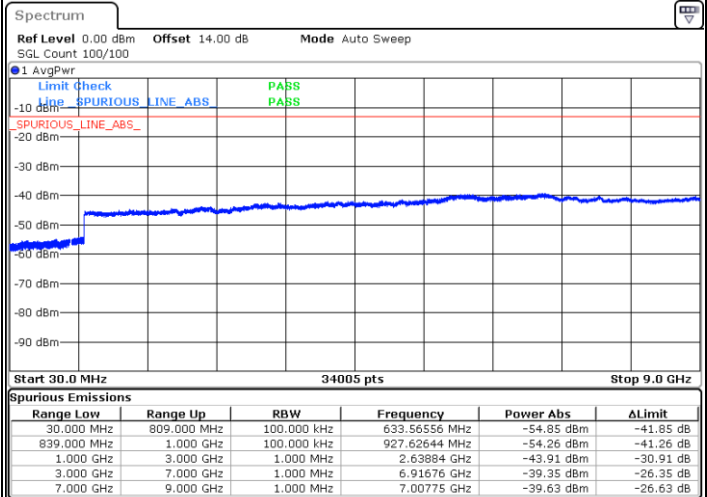
## LTE Band 26 / 1.4MHz

## Lowest Channel / QPSK



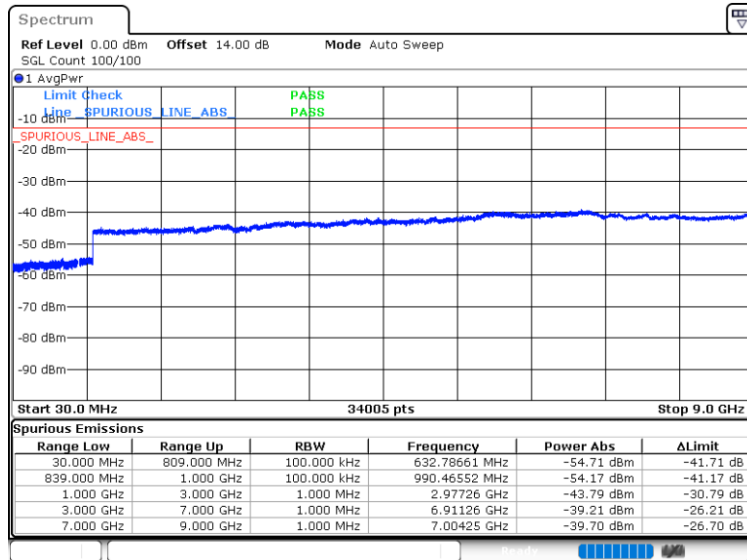
Date: 15.JUL.2025 03:56:28

## Middle Channel / QPSK



Date: 15.JUL.2025 03:57:30

## Highest Channel / QPSK

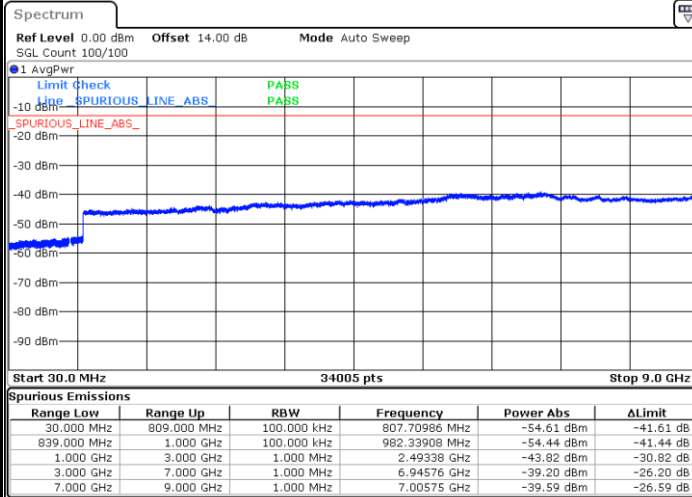


Date: 15.JUL.2025 04:04:23



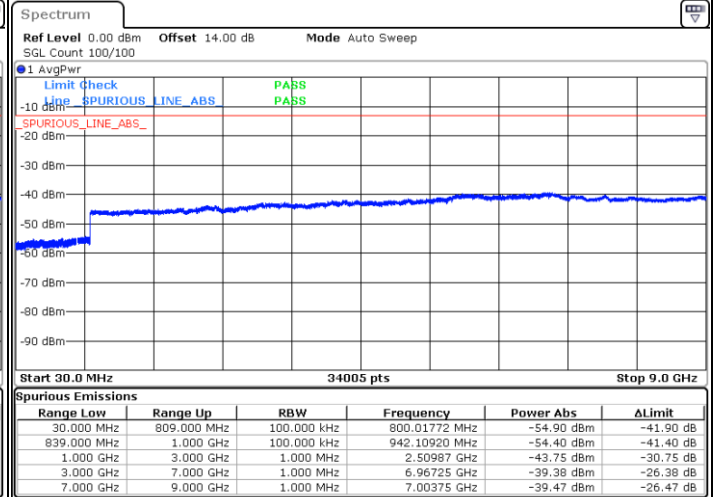
## LTE Band 26 / 3MHz

## Lowest Channel / QPSK



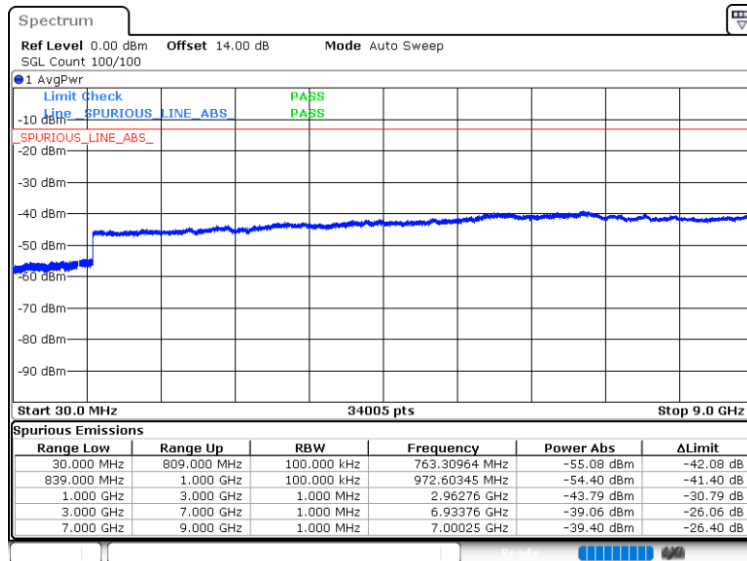
Date: 15.JUL.2025 04:10:42

## Middle Channel / QPSK



Date: 15.JUL.2025 04:11:44

## Highest Channel / QPSK

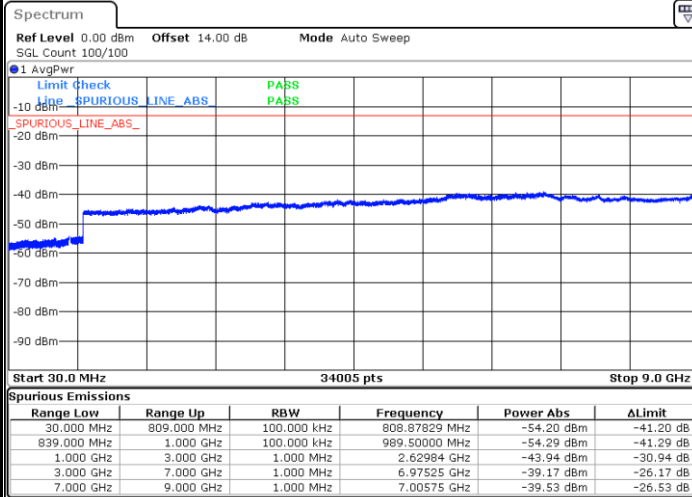


Date: 15.JUL.2025 04:18:39



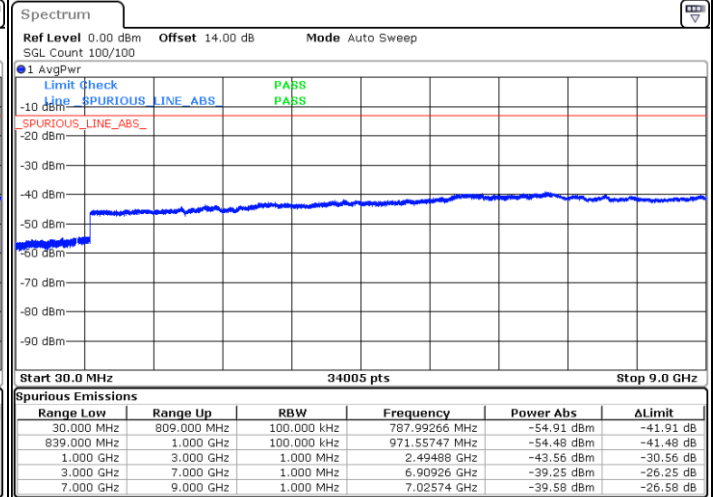
## LTE Band 26 / 5MHz

## Lowest Channel / QPSK



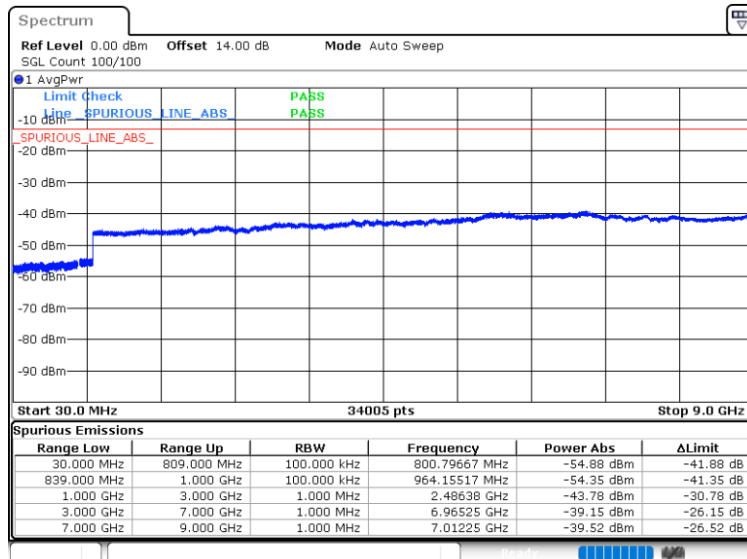
Date: 15.JUL.2025 04:24:55

## Middle Channel / QPSK



Date: 15.JUL.2025 04:25:57

## Highest Channel / QPSK



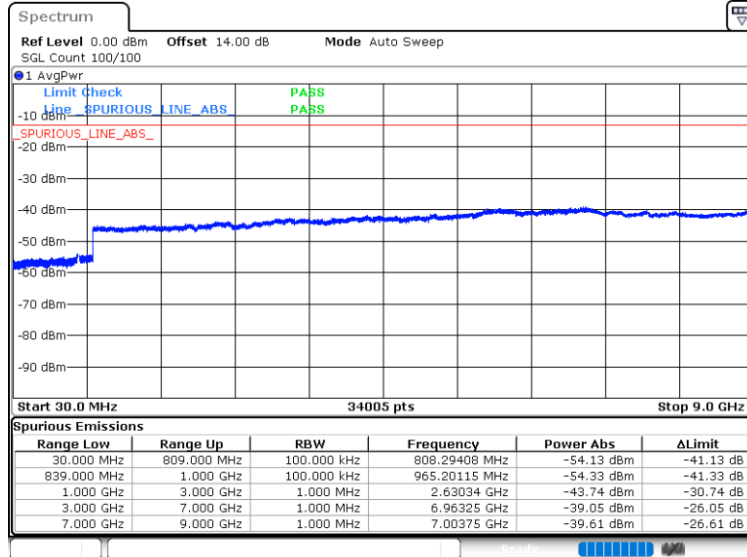
Date: 15.JUL.2025 04:32:51





## LTE Band 26 / 10MHz

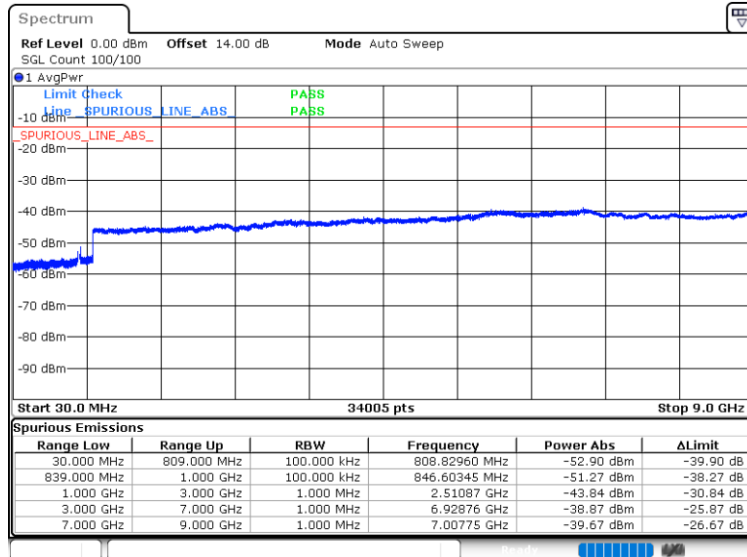
## Middle Channel / QPSK



Date: 15.JUL.2025 04:46:17

## LTE Band 26 / 15MHz

## Middle Channel / QPSK



Date: 15.JUL.2025 04:53:40

## Frequency Stability

| Test Conditions     |                   | LTE Band 26 (QPSK) / Middle Channel | Limit   |
|---------------------|-------------------|-------------------------------------|---------|
| Temperature<br>(°C) | Voltage<br>(Volt) | BW 10MHz                            | ≤2.5ppm |
|                     |                   | Deviation (ppm)                     | Result  |
| 50                  | Normal Voltage    | 0.0007                              | PASS    |
| 40                  | Normal Voltage    | 0.0017                              |         |
| 30                  | Normal Voltage    | 0.0006                              |         |
| 20(Ref.)            | Normal Voltage    | 0.0000                              |         |
| 10                  | Normal Voltage    | 0.0050                              |         |
| 0                   | Normal Voltage    | 0.0054                              |         |
| -10                 | Normal Voltage    | 0.0004                              |         |
| -20                 | Normal Voltage    | 0.0023                              |         |
| -30                 | Normal Voltage    | 0.0015                              |         |
| 20                  | Maximum Voltage   | 0.0020                              |         |
| 20                  | Normal Voltage    | 0.0000                              |         |
| 20                  | Battery End Point | 0.0045                              |         |

**Note:**

1. Normal Voltage = 3.91 V. ; Battery End Point (BEP) = 3.7 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

|                 |            |                     |         |
|-----------------|------------|---------------------|---------|
| Test Engineer : | Wenbo Xiao | Temperature :       | 22~25°C |
|                 |            | Relative Humidity : | 48~52%  |

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

| LTE Band 26 / 10MHz / QPSK / Ant. 13 |                   |             |               |                   |                   |                    |                      |                       |                    |
|--------------------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                              | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                               | 1629              | -65.62      | -13           | -52.62            | -75.11            | -68.87             | 4.00                 | 9.40                  | H                  |
|                                      | 2443.5            | -62.79      | -13           | -49.79            | -76.79            | -66.36             | 4.88                 | 10.60                 | H                  |
|                                      | 3258              | -60.86      | -13           | -47.86            | -77.23            | -65.79             | 5.52                 | 12.60                 | H                  |
|                                      | 1629              | -65.69      | -13           | -52.69            | -75.08            | -68.94             | 4.00                 | 9.40                  | V                  |
|                                      | 2443.5            | -62.43      | -13           | -49.43            | -76.41            | -66.00             | 4.88                 | 10.60                 | V                  |
|                                      | 3258              | -60.61      | -13           | -47.61            | -76.84            | -65.54             | 5.52                 | 12.60                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 26 / 15MHz / QPSK / Ant. 13 |                   |             |               |                   |                   |                    |                      |                       |                    |
|--------------------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                              | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                               | 1634.5            | -65.57      | -13           | -52.57            | -75.06            | -68.74             | 4.10                 | 9.42                  | H                  |
|                                      | 2451.75           | -62.60      | -13           | -49.60            | -76.60            | -66.18             | 4.90                 | 10.63                 | H                  |
|                                      | 3269              | -61.14      | -13           | -48.14            | -77.51            | -66.06             | 5.55                 | 12.62                 | H                  |
|                                      | 1634.5            | -65.26      | -13           | -52.26            | -74.65            | -68.43             | 4.10                 | 9.42                  | V                  |
|                                      | 2451.75           | -62.64      | -13           | -49.64            | -76.62            | -66.22             | 4.90                 | 10.63                 | V                  |
|                                      | 3269              | -60.94      | -13           | -47.94            | -77.17            | -65.86             | 5.55                 | 12.62                 | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.