

# TEST REPORT

FCC LTE B5 Test for SM-X526B  
Certification

**APPLICANT**  
SAMSUNG Electronics Co., Ltd.

**REPORT NO.**  
HCT-RF-2502-FC038

**DATE OF ISSUE**  
February 17, 2025

**Tested by**  
Jae Ryang Do



**Technical Manager**  
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**Applicant**

**SAMSUNG Electronics Co., Ltd.**

129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

**Product Name**

Tablet

**Model Name**

SM-X526B

**Date of Test**

December 26, 2024 ~ February 12, 2025

**FCC ID**

A3LSMX526B

**Location of Test**

☒ Permanent Testing Lab ☐ On Site Testing

(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)

**FCC Classification:**

PCS Licensed Transmitter (PCB)

**Test Standard Used**

FCC Rule Part: § 22

**Test Results**

PASS

## REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	February 17, 2025	Initial Release

## Notice

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### Content

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The measurements shown in this report were made in accordance with the procedures specified in CFR47 section § 2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S. C. 853(a)

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked \*.

Information provided by the applicant is marked \*\*.

Test results provided by external providers are marked \*\*\*.

When confirmation of authenticity of this test report is required, please contact [www.hct.co.kr](http://www.hct.co.kr)

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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## MEASUREMENT REPORT

### 1. GENERAL INFORMATION

<b>Applicant Name:</b>	SAMSUNG Electronics Co., Ltd.
<b>Address:</b>	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
<b>FCC ID:</b>	A3LSMX526B
<b>Application Type:</b>	Certification
<b>FCC Classification:</b>	PCS Licensed Transmitter (PCB)
<b>FCC Rule Part(s):</b>	§ 22
<b>EUT Type:</b>	Tablet
<b>Model(s):</b>	SM-X526B
<b>Tx Frequency:</b>	824.7 MHz – 848.3 MHz (LTE – Band 5 (1.4 MHz)) 825.5 MHz – 847.5 MHz (LTE – Band 5 (3 MHz)) 826.5 MHz – 846.5 MHz (LTE – Band 5 (5 MHz)) 829.0 MHz – 844.0 MHz (LTE – Band 5 (10 MHz))
<b>Date(s) of Tests:</b>	December 26, 2024 ~ February 12, 2025
<b>Serial number:</b>	Radiated : R32XC00B7ZP Conducted : R32XC00AZFB

## 1.1. MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	ERP	
				Max. Power (W)	Max. Power (dBm)
LTE – Band5 (1.4)	824.7 – 848.3	1M10G7D	QPSK	0.199	22.99
		1M10W7D	16QAM	0.176	22.46
		1M10W7D	64QAM	0.137	21.36
		1M10W7D	256QAM	0.067	18.25
LTE – Band5 (3)	825.5 – 847.5	2M72G7D	QPSK	0.199	22.99
		2M70W7D	16QAM	0.171	22.32
		2M70W7D	64QAM	0.136	21.32
		2M72W7D	256QAM	0.069	18.39
LTE – Band5 (5)	826.5 – 846.5	4M53G7D	QPSK	0.199	22.99
		4M51W7D	16QAM	0.173	22.39
		4M52W7D	64QAM	0.123	20.89
		4M54W7D	256QAM	0.068	18.31
LTE – Band5 (10)	829.0 – 844.0	9M01G7D	QPSK	0.200	23.00
		9M00W7D	16QAM	0.162	22.09
		9M01W7D	64QAM	0.127	21.04
		9M01W7D	256QAM	0.064	18.05

## 2. INTRODUCTION

### 2.1. DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

### 2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

### 2.3. TEST FACILITY

The Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the **74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea**

### 3. DESCRIPTION OF TESTS

#### 3.1 TEST PROCEDURE

Test Description	Test Procedure Used
Occupied Bandwidth	- KDB 971168 D01 v03r01 – Section 4.3 - ANSI C63.26-2015 – Section 5.4.4
Band Edge	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Spurious and Harmonic Emissions at Antenna Terminal	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Conducted Output Power	- N/A (See SAR Report)
Peak- to- Average Ratio	- KDB 971168 D01 v03r01 – Section 5.7 - ANSI C63.26-2015 – Section 5.2.3.4
Frequency stability	- ANSI C63.26-2015 – Section 5.6
Radiated Power	- ANSI C63.26-2015 – Section 5.2.4.4 - KDB 971168 D01 v03r01 – Section 5.8
Radiated Spurious and Harmonic Emissions	- ANSI C63.26-2015 – Section 5.5.3 - KDB 971168 D01 v03r01 – Section 5.8



### 3.2 RADIATED POWER

#### Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

The equipment under test is placed on a non-conductive table 3-meters away from the receive antenna.

#### Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5 % of the expected OBW, not to exceed 1 MHz
3. VBW  $\geq$  3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points > 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

#### Test Note

1. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission.
2. A half wave dipole is then substituted in place of the EUT. For emissions above 1 GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The power is calculated by the following formula;

$$P_d \text{ (dBm)} = P_g \text{ (dBm)} - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

Where:  $P_d$  is the dipole equivalent power and  $P_g$  is the generator output power into the substitution antenna.

3. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate gain value.

These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration

4. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
5. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

### 3.3 RADIATED SPURIOUS EMISSIONS

#### Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method.

#### Test Settings

1. RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz
2. VBW  $\geq$  3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points > 2 x span / RBW
5. Detector = Peak
6. Trace mode = Max Hold
7. The trace was allowed to stabilize
8. Test channel : Low/ Middle/ High
9. Frequency range : We are performed all frequency to 10<sup>th</sup> harmonics from 9 kHz.

#### Test Note

1. Measurements value show only up to 3 maximum emissions noted, or would be lesser  
if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit)  
and considered that's already beyond the background noise floor.
2. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.  
The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets,  
and channel bandwidth configurations shown in the test data
3. For spurious emissions above 1 GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is  
driven by a signal generator and the previously recorded signal was duplicated.  
The spurious emissions is calculated by the following formula;

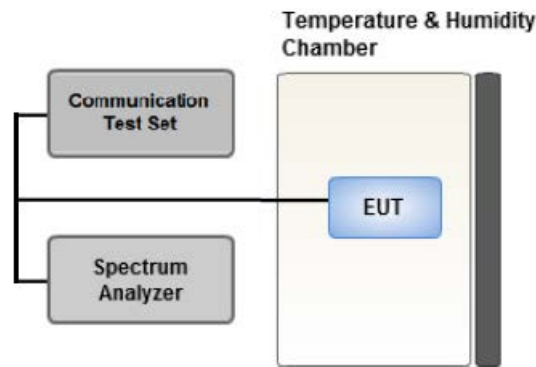
$$\text{Result}_{(\text{dBm})} = P_{\text{g}}_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

Where:  $P_{\text{g}}$  is the generator output power into the substitution antenna.

If the fundamental frequency is below 1 GHz, RF output power has been converted to EIRP.

$$\text{EIRP}_{(\text{dBm})} = \text{ERP}_{(\text{dBm})} + 2.15$$

## 3.4 PEAK- TO- AVERAGE RATIO



Test setup

### ① CCDF Procedure for PAPR

#### Test Settings

1. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Set the measurement interval as follows:
  - .- for continuous transmissions, set to 1 ms,
  - .- or burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
4. Record the maximum PAPR level associated with a probability of 0.1 %.

### ② Alternate Procedure for PAPR

Use one of the procedures presented in 5.2(ANSI C63.26-2015) to measure the total peak power and record as  $P_{Pk}$ .

Use one of the applicable procedures presented 5.2(ANSI C63.26-2015) to measure the total average power and record as  $P_{Avg}$ . Determine the P.A.R. from:

$$P.A.R. (dB) = P_{Pk} (dBm) - P_{Avg} (dBm) \quad (P_{Avg} = \text{Average Power} + \text{Duty cycle Factor})$$

**Test Settings(Peak Power)**

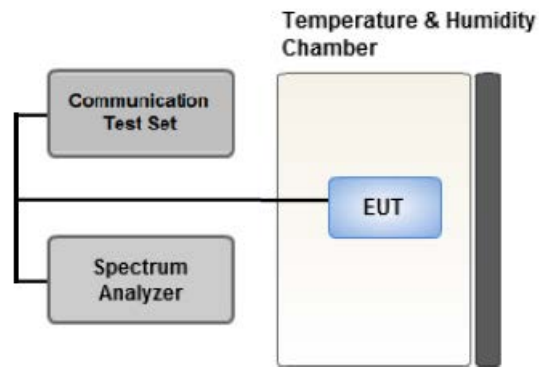
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW  $\geq 3 \times$  RBW.

1. Set the RBW  $\geq$  OBW.
2. Set VBW  $\geq 3 \times$  RBW.
3. Set span  $\geq 2 \times$  OBW.
4. Sweep time  $\geq 10 \times$  (number of points in sweep)  $\times$  (transmission symbol period).
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the peak amplitude level.

**Test Settings(Average Power)**

1. Set span to  $2 \times$  to  $3 \times$  the OBW.
2. Set RBW  $\geq$  OBW.
3. Set VBW  $\geq 3 \times$  RBW.
4. Set number of measurement points in sweep  $\geq 2 \times$  span / RBW.
5. Sweep time:  
Set  $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$  for single sweep (automation-compatible) measurement. The transmission period is the (on + off) time.
6. Detector = power averaging (rms).
7. Set sweep trigger to "free run."
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. (To accurately determine the average power over the on and off period of the transmitter, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.)
9. Use the peak marker function to determine the maximum amplitude level.
10. Add  $[10 \log (1/\text{duty cycle})]$  to the measured maximum power level to compute the average power during continuous transmission. For example, add  $[10 \log (1/0.25)] = 6 \text{ dB}$  if the duty cycle is a constant 25 %.

### 3.5 OCCUPIED BANDWIDTH.



#### Test setup

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 power of a given emission.

The EUT makes a call to the communication simulator.

The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

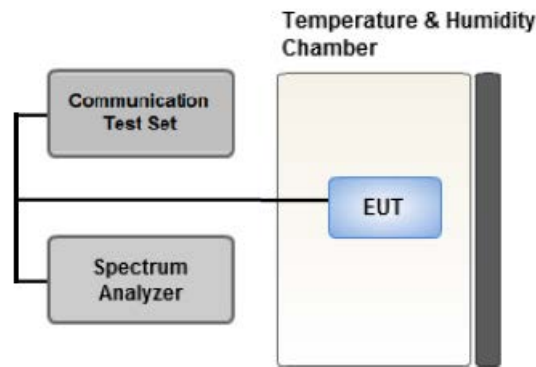
The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

#### Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99 % occupied bandwidth and the 26 dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2.  $RBW = 1 - 5 \%$  of the expected OBW
3.  $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5 % of the 99 % occupied bandwidth observed in Step 7

### 3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

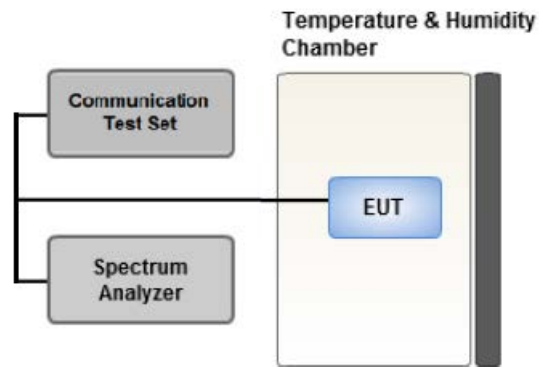
#### Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

#### Test Settings

1. RBW = 1 MHz
2. VBW  $\geq$  3 MHz
3. Detector = Peak
4. Trace Mode = Max Hold
5. Sweep time = auto
6. Number of points in sweep  $\geq$  2 x Span / RBW

### 3.7 BAND EDGE



Test setup

#### Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

#### Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW > 1 % of the emission bandwidth
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points  $\geq 2 \times \text{Span}/\text{RBW}$
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

**Test Notes**

According to FCC 22.917, 24.238, 27.53 specified that power of any emission outside of The authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

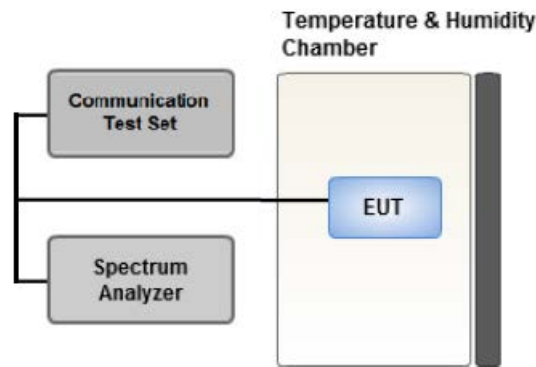
All measurements were done at 2 channels(low and high operational frequency range.)

The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

Where Margin < 1 dB the emission level is either corrected by  $10 \log(1 \text{ MHz} / \text{RB})$  or the emission is integrated over a 1 MHz bandwidth to determine the final result. When using the integration method the integration window is either centered on the emission or, for emissions at the band edge, centered by an offset of 500 kHz from the block edge so that the integration window is the 1 MHz adjacent to the block edge.



### 3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

#### Test Overview

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015.

The frequency stability of the transmitter is measured by:

1. Temperature:

The temperature is varied from -30 °C to +50 °C in 10 °C increments using an environmental chamber.

2. Primary Supply Voltage:

- .- Unless otherwise specified, vary primary supply voltage from 85 % to 115 % of the nominal value for other than hand carried battery equipment.
- .- For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.

#### Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20 °C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter.  
Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10 °C intervals ranging from -30 °C to +50 °C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

### 3.9 WORST CASE(RADIATED TEST)

- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- All modes of operation were investigated and the worst case configuration results are reported.  
Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)  
Worst case : Stand alone
- All simultaneous transmission scenarios of operation were investigated, and the test results showed no additional significant emissions relative to the least restrictive limit were observed.  
Therefore, only the worst case(stand-alone) results were reported.
- In the case of radiated spurious emissions, all bandwidth of operation were investigated and the worst case bandwidth results are reported. (Worst case : 10 MHz)
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.

[ Worst case ]

Test Description	Modulation	RB size	RB offset	Axis
Effective Radiated Power	QPSK, 16QAM, 64QAM, 256QAM	See Section 8.1		X
Radiated Spurious and Harmonic Emissions	QPSK	See Section 8.2		Z

### 3.10 WORST CASE(CONDUCTED TEST)

- All modes of operation were investigated and the worst case configuration results are reported.

[ Worst case ]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth	QPSK, 16QAM, 64QAM, 256QAM	1.4, 3, 5, 10	Mid	Full RB	0
Peak-To-Average Ratio	QPSK, 16QAM, 64QAM, 256QAM	1.4, 3, 5, 10	Mid	Full RB	0
Band Edge	QPSK	1.4	Low	1	0
			High	1	5
		3	Low	1	0
			High	1	14
		5	Low	1	0
			High	1	24
		10	Low	1	0
			High	1	49
Band Edge	QPSK	1.4, 3, 5, 10	Low, High	Full RB	0
			Low, Mid, High	1	0
Spurious and Harmonic Emissions at Antenna Terminal	QPSK	1.4, 3, 5, 10	Low, Mid, High	1	0

#### 4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
RF Switching System	Switch box(1 G HPF+LNA)	HCT CO., LTD.,	F2L2	12/12/2025	Annual
RF Switching System	Switch box(3 G HPF+LNA)	HCT CO., LTD.,	F2L3	12/12/2025	Annual
RF Switching System	Switch box(LNA)	HCT CO., LTD.,	F2L5	12/12/2025	Annual
RF Switching System	Switch box(6 G HPF+LNA)	HCT CO., LTD.,	F2L14	12/12/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/26/2025	Annual
Power Splitter(DC ~ 26.5 GHz)	11667B	Hewlett Packard	5001	04/17/2025	Annual
DC Power Supply	E3632A	Agilent	MY40010147	08/06/2025	Annual
Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Dipole Antenna	UHAP	Schwarzbeck	01288	08/07/2026	Biennial
Chamber	SU-642	ESPEC	93008124	02/19/2025	Annual
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03197	11/28/2025	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	03201	11/28/2025	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/28/2025	Biennial
Signal Analyzer(10 Hz ~ 26.5 GHz)	N9020A	Agilent	MY52090906	04/19/2025	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/17/2025	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	ROHDE & SCHWARZ	101733	09/19/2025	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Loop Antenna(9 kHz ~ 30 MHz)	FMZB1513	Schwarzbeck	1513-333	03/07/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	1135	08/19/2026	Biennial
Radio Communication Test Station	MT8000A	Anritsu Corp.	6272613402	08/28/2025	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/26/2025	Annual
Signal Analyzer(5 Hz ~ 40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/17/2025	Annual
Signal & Spectrum Analyzer (2 Hz~67 GHz)	FSW67	REOHDE & SCHWARZ	101736	05/23/2025	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.,	-	-	-

##### Note:

- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
- Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).

## 5. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4:2014.

All measurement uncertainty values are shown with a coverage factor of  $k=2$  to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the  $U_{\text{CISPR}}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty ( $\pm$ kHz)
Occupied Bandwidth	95 (Confidence level about 95 %, $k=2$ )
Frequency stability	28 (Confidence level about 95 %, $k=2$ )

Parameter	Expanded Uncertainty ( $\pm$ dB)
Block Edge	0.70 (Confidence level about 95 %, $k=2$ )
Conducted Spurious Emissions	1.18 (Confidence level about 95 %, $k=2$ )
Peak- to- Average Ratio	0.68 (Confidence level about 95 %, $k=2$ )
Radiated Power	4.74 (Confidence level about 95 %, $k=2$ )
Radiated Disturbance (9 kHz ~ 30 MHz)	4.36 (Confidence level about 95 %, $k=2$ )
Radiated Disturbance (30 MHz ~ 1 GHz)	5.70 (Confidence level about 95 %, $k=2$ )
Radiated Disturbance (1 GHz ~ 18 GHz)	5.52 (Confidence level about 95 %, $k=2$ )
Radiated Disturbance (18 GHz ~ 40 GHz)	5.66 (Confidence level about 95 %, $k=2$ )
Radiated Disturbance (Above 40 GHz)	5.58 (Confidence level about 95 %, $k=2$ )

## 6. SUMMARY OF TEST RESULTS

### 6.1 Test Condition : Conducted Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Occupied Bandwidth	§ 2.1049	N/A	PASS
Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§ 2.1051, § 22.917(a)	< 43 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions	PASS
Conducted Output Power	§ 2.1046	N/A	<u>See Note1</u>
Peak- to- Average Ratio	§ 22.913(d)	< 13 dB	PASS
Frequency stability / variation of ambient temperature	§ 2.1055, § 22.355	< 2.5 ppm	PASS

#### Note:

1. See SAR Report

### 6.2 Test Condition : Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Effective Radiated Power	§ 22.913(a)(5)	< 7 Watts max. ERP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 22.917(a)	< 43 + 10log10 (P[Watts]) for all out-of band emissions	PASS

## 7. SAMPLE CALCULATION

### 7.1 ERP Sample Calculation

Ch./ Freq.		Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol.	ERP	
channel	Freq.(MHz)						W	dBm
128	824.20	-21.37	38.40	-10.61	0.95	H	0.483	26.84

$$\text{ERP} = \text{Substitute LEVEL(dBm)} + \text{Ant. Gain} - \text{CL(Cable Loss)}$$

- 1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
- 2) During the test, the turn table is rotated until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power.

### 7.2 EIRP Sample Calculation

Ch./ Freq.		Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	EIRP	
channel	Freq.(MHz)						W	dBm
20175	1,732.50	-15.75	18.45	9.90	1.76	H	0.456	26.59

$$\text{EIRP} = \text{Substitute LEVEL(dBm)} + \text{Ant. Gain} - \text{CL(Cable Loss)}$$

- 1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
- 2) During the test, the turn table is rotated until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of equivalent isotropic radiated power.

### 7.3. Emission Designator

#### GSM Emission Designator

Emission Designator = 249KGXW  
GSM BW = 249 kHz  
G = Phase Modulation  
X = Cases not otherwise covered  
W = Combination (Audio/Data)

#### EDGE Emission Designator

Emission Designator = 249KG7W  
GSM BW = 249 kHz  
G = Phase Modulation  
7 = Quantized/Digital Info  
W = Combination (Audio/Data)

#### WCDMA Emission Designator

Emission Designator = 4M17F9W  
WCDMA BW = 4.17 MHz  
F = Frequency Modulation  
9 = Composite Digital Info  
W = Combination (Audio/Data)

#### QPSK Modulation

Emission Designator = 4M48G7D  
LTE BW = 4.48 MHz  
G = Phase Modulation  
7 = Quantized/Digital Info  
D = Data transmission; telemetry; telecommand

#### QAM Modulation

Emission Designator = 4M48W7D  
LTE BW = 4.48 MHz  
W = Amplitude/Angle Modulated  
7 = Quantized/Digital Info  
D = Data transmission; telemetry; telecommand



## 8. TEST DATA

### 8.1 EFFECTIVE RADIATED POWER

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
824.7	LTE B5/ 1.4 MHz	QPSK	-28.61	34.38	-9.95	1.44	H	< 7.00	0.199	22.99	1	14
		16-QAM	-29.14	33.85	-9.95	1.44	H		0.176	22.46		
		64-QAM	-30.24	32.75	-9.95	1.44	H		0.137	21.36		
		256-QAM	-33.35	29.64	-9.95	1.44	H		0.067	18.25		
836.5		QPSK	-29.28	33.58	-9.90	1.45	H		0.167	22.23	1	0
		16-QAM	-29.97	32.89	-9.90	1.45	H		0.143	21.54		
		64-QAM	-31.07	31.79	-9.90	1.45	H		0.111	20.44		
		256-QAM	-34.18	28.68	-9.90	1.45	H		0.054	17.33		
848.3		QPSK	-29.91	33.18	-9.85	1.45	H		0.154	21.88	1	0
		16-QAM	-30.59	32.50	-9.85	1.45	H		0.132	21.20		
		64-QAM	-31.75	31.34	-9.85	1.45	H		0.101	20.04		
		256-QAM	-34.83	28.26	-9.85	1.45	H		0.050	16.96		

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
825.5	LTE B5/ 3 MHz	QPSK	-28.58	34.38	-9.95	1.44	H	< 7.00	0.199	22.99	1	0
		16-QAM	-29.25	33.71	-9.95	1.44	H		0.171	22.32		
		64-QAM	-30.25	32.71	-9.95	1.44	H		0.136	21.32		
		256-QAM	-33.18	29.78	-9.95	1.44	H		0.069	18.39		
836.5		QPSK	-29.18	33.68	-9.90	1.45	H		0.171	22.33	1	0
		16-QAM	-29.86	33.00	-9.90	1.45	H		0.146	21.65		
		64-QAM	-30.95	31.91	-9.90	1.45	H		0.114	20.56		
		256-QAM	-34.07	28.79	-9.90	1.45	H		0.055	17.44		
847.5		QPSK	-29.76	33.46	-9.85	1.45	H		0.164	22.16	1	0
		16-QAM	-30.45	32.77	-9.85	1.45	H		0.140	21.47		
		64-QAM	-31.52	31.70	-9.85	1.45	H		0.110	20.40		
		256-QAM	-34.61	28.61	-9.85	1.45	H		0.054	17.31		

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
826.5	LTE B5/ 5 MHz	QPSK	-28.53	34.38	-9.95	1.44	H	< 7.00	0.199	22.99	1	0
		16-QAM	-29.13	33.78	-9.95	1.44	H		0.173	22.39		
		64-QAM	-30.63	32.28	-9.95	1.44	H		0.123	20.89		
		256-QAM	-33.21	29.70	-9.95	1.44	H		0.068	18.31		
836.5		QPSK	-29.04	33.82	-9.90	1.45	H		0.177	22.47	1	0
		16-QAM	-29.76	33.10	-9.90	1.45	H		0.150	21.75		
		64-QAM	-30.82	32.04	-9.90	1.45	H		0.117	20.69		
		256-QAM	-33.94	28.92	-9.90	1.45	H		0.057	17.57		
846.5		QPSK	-29.50	33.79	-9.85	1.45	H		0.177	22.49	1	0
		16-QAM	-30.38	32.91	-9.85	1.45	H		0.145	21.61		
		64-QAM	-31.44	31.85	-9.85	1.45	H		0.114	20.55		
		256-QAM	-34.50	28.79	-9.85	1.45	H		0.056	17.49		

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol	Limit	ERP		RB	
								W	W	dBm	Size	Offset
829.0	LTE B5/ 10 MHz	QPSK	-28.46	34.39	-9.95	1.44	H	< 7.00	0.200	23.00	1	0
		16-QAM	-29.37	33.48	-9.95	1.44	H		0.162	22.09		
		64-QAM	-30.42	32.43	-9.95	1.44	H		0.127	21.04		
		256-QAM	-33.41	29.44	-9.95	1.44	H		0.064	18.05		
836.5		QPSK	-28.76	34.10	-9.90	1.45	H		0.188	22.75	1	0
		16-QAM	-29.57	33.29	-9.90	1.45	H		0.156	21.94		
		64-QAM	-30.63	32.23	-9.90	1.45	H		0.122	20.88		
		256-QAM	-33.60	29.26	-9.90	1.45	H		0.062	17.91		
844.0		QPSK	-29.39	33.85	-9.85	1.45	H		0.180	22.55	1	0
		16-QAM	-30.20	33.04	-9.85	1.45	H		0.149	21.74		
		64-QAM	-31.28	31.96	-9.85	1.45	H		0.116	20.66		
		256-QAM	-34.31	28.93	-9.85	1.45	H		0.058	17.63		

## 8.2 RADIATED SPURIOUS EMISSIONS

MODE: LTE B5  
 MODULATION SIGNAL: 10 MHz QPSK  
 DISTANCE: 3 meters

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
20450 (829.0)	1 658.00	-49.43	9.51	-64.55	2.03	H	-57.07	-13.00	1	0
	2 487.00	-52.73	10.31	-63.91	2.53	V	-56.13	-13.00		
	3 316.00	-53.13	11.09	-61.50	2.99	H	-53.40	-13.00		
20525 (836.5)	1 673.00	-48.32	9.60	-63.59	2.05	H	-56.04	-13.00	1	0
	2 509.50	-51.69	10.26	-62.97	2.51	V	-55.22	-13.00		
	3 346.00	-53.49	11.10	-62.15	2.96	H	-54.01	-13.00		
20600 (844.0)	1 688.00	-48.98	9.70	-64.26	2.06	V	-56.62	-13.00	1	0
	2 532.00	-51.46	10.25	-62.73	2.54	V	-55.02	-13.00		
	3 376.00	-53.02	11.15	-61.99	2.98	H	-53.82	-13.00		

### 8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
5	1.4 MHz	836.5	QPSK	6	0	5.41
			16-QAM			6.06
			64-QAM			6.35
			256-QAM			6.39
	3 MHz		QPSK	15		5.41
			16-QAM			5.99
			64-QAM			6.28
			256-QAM			6.42
	5 MHz		QPSK	25		5.41
			16-QAM			6.02
			64-QAM			6.30
			256-QAM			6.45
	10 MHz		QPSK	50		5.50
			16-QAM			6.05
			64-QAM			6.31
			256-QAM			6.42

#### **Note:**

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 36~ 51.

#### 8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
5	1.4 MHz	836.5	QPSK	6	0	1.0970
			16-QAM			1.0956
			64-QAM			1.0958
			256-QAM			1.0965
	3 MHz		QPSK	15		2.7152
			16-QAM			2.7040
			64-QAM			2.7026
			256-QAM			2.7147
	5 MHz		QPSK	25		4.5258
			16-QAM			4.5106
			64-QAM			4.5217
			256-QAM			4.5362
	10 MHz		QPSK	50		9.0137
			16-QAM			8.9998
			64-QAM			9.0097
			256-QAM			9.0061

#### Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 52 ~ 67.

## 8.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
5	1.4	824.7	5.9622	28.591	-57.586	-28.995	-13.00
		836.5	3.6790	27.976	-57.762	-29.786	
		848.3	3.7089	27.976	-58.224	-30.248	
	3	826.5	3.7089	27.976	-57.687	-29.711	
		836.5	7.2981	28.591	-58.290	-29.699	
		846.5	3.7488	27.976	-57.038	-29.062	
	5	826.5	3.1706	27.976	-58.471	-30.495	
		836.5	3.2005	27.976	-57.605	-29.629	
		846.5	3.7089	27.976	-58.177	-30.201	
	10	829.0	3.6990	27.976	-57.946	-29.970	
		836.5	3.6790	27.976	-57.803	-29.827	
		844.0	3.7089	27.976	-57.425	-29.449	

### Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 68 ~ 79.
2. Conducted Spurious Emissions was Tested QPSK Modulation, Resource Block Size 1 and Resource Block Offset 0
3. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
4. Factor (dB) = Cable Loss + Attenuator + Power Splitter

Frequency Range (GHz)	Factor [dB]
0.03 – 1	25.270
1 – 5	27.976
5 – 10	28.591
10 – 15	29.116
15 – 20	29.489
Above 20(26.5)	30.131

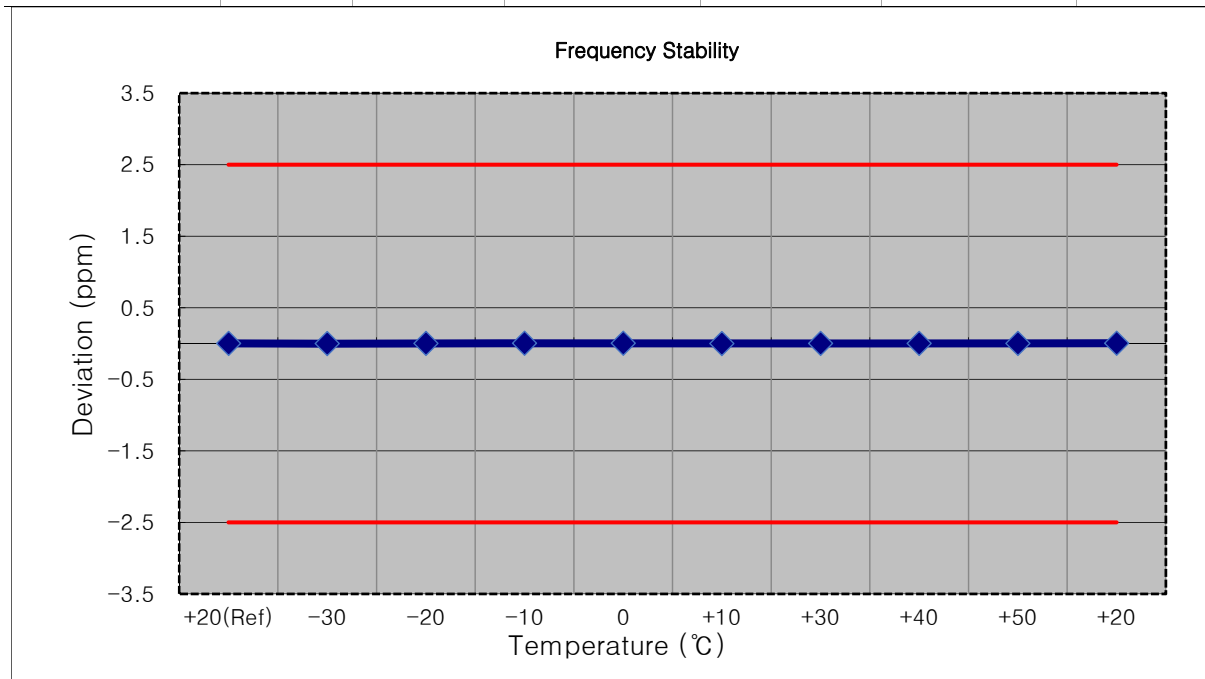
## 8.6 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 80 ~ 103.

## 8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

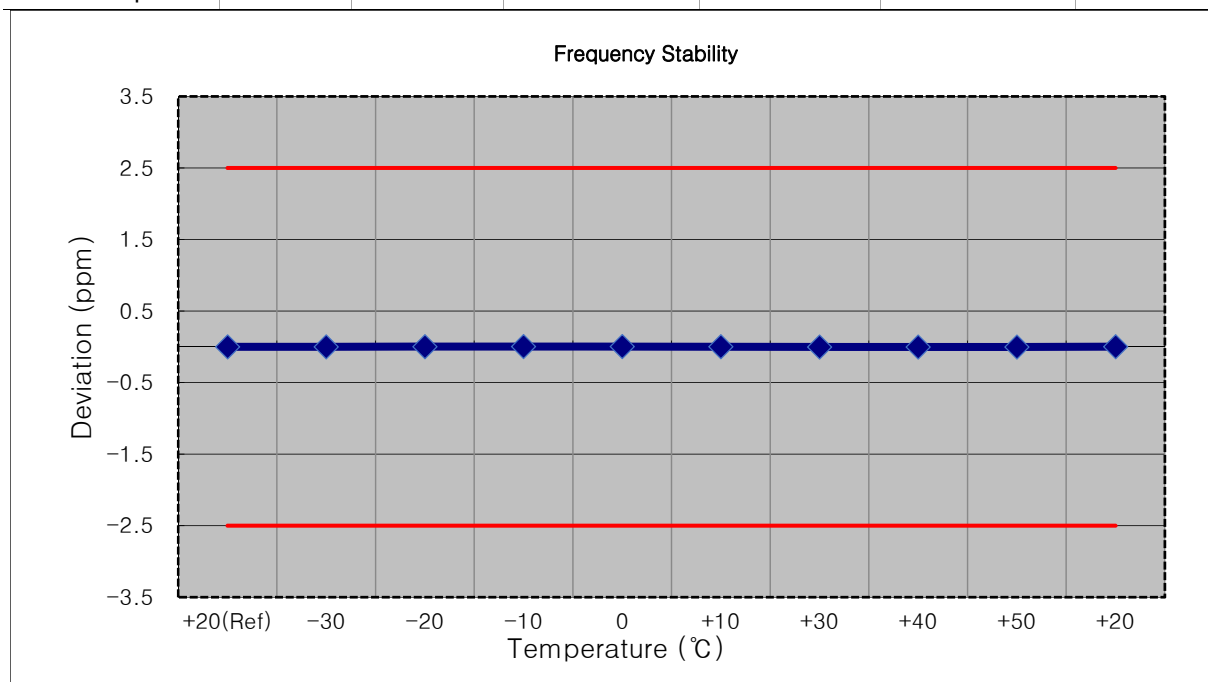
MODE:	<u>LTE B5</u>
OPERATING FREQUENCY:	<u>836,500,000 Hz</u>
CHANNEL:	<u>20525 (1.4 MHz)</u>
REFERENCE VOLTAGE:	<u>3.860 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.860	+20(Ref)	836 499 998	0.0	0.000 000	0.000
100 %		-30	836 499 996	-1.9	0.000 000	-0.002
100 %		-20	836 500 000	1.5	0.000 000	0.002
100 %		-10	836 500 001	2.4	0.000 000	0.003
100 %		0	836 500 000	2.0	0.000 000	0.002
100 %		+10	836 499 997	-1.7	0.000 000	-0.002
100 %		+30	836 500 000	1.3	0.000 000	0.002
100 %		+40	836 500 000	1.6	0.000 000	0.002
100 %		+50	836 500 000	1.5	0.000 000	0.002
Batt. Endpoint	3.400	+20	836 500 001	2.3	0.000 000	0.003



MODE:	<u>LTE B5</u>
OPERATING FREQUENCY:	<u>836,500,000 Hz</u>
CHANNEL:	<u>20525(3 MHz)</u>
REFERENCE VOLTAGE:	<u>3.860 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

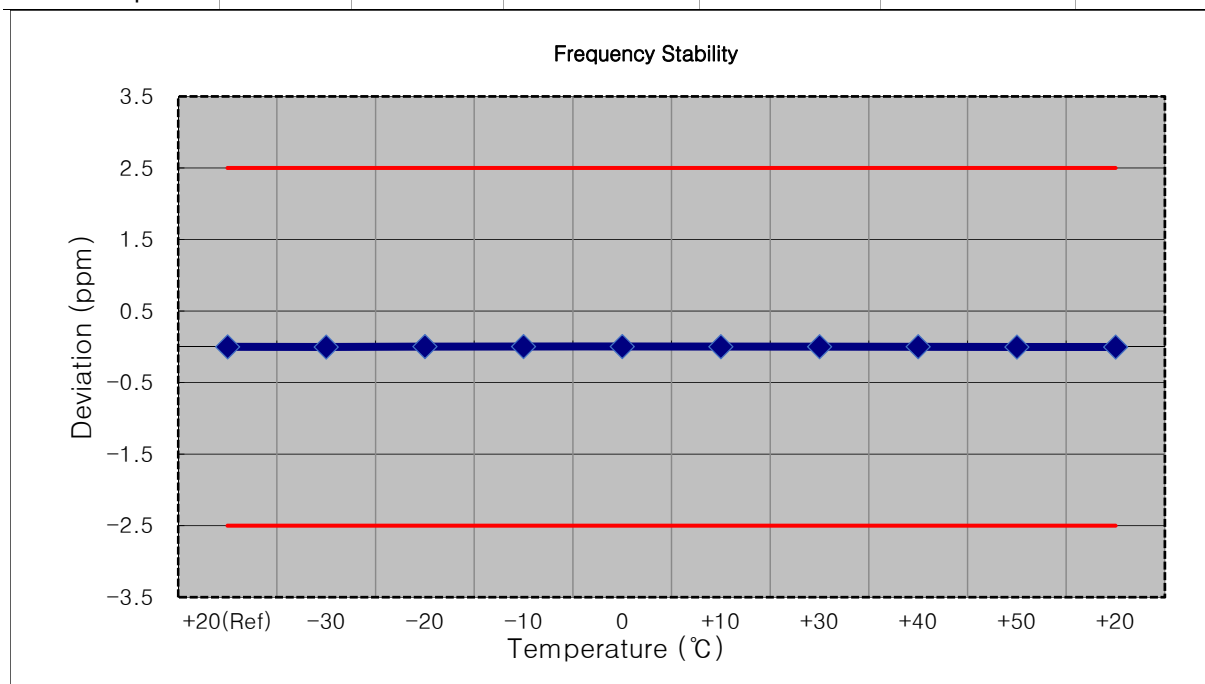
Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.860	+20(Ref)	836 500 003	0.0	0.000 000	0.000
100 %		-30	836 500 002	-1.1	0.000 000	-0.001
100 %		-20	836 500 005	2.1	0.000 000	0.003
100 %		-10	836 500 006	2.8	0.000 000	0.003
100 %		0	836 500 006	3.0	0.000 000	0.004
100 %		+10	836 500 004	1.4	0.000 000	0.002
100 %		+30	836 500 001	-2.1	0.000 000	-0.003
100 %		+40	836 500 001	-2.1	0.000 000	-0.003
100 %		+50	836 500 001	-1.8	0.000 000	-0.002
Batt. Endpoint	3.400	+20	836 500 005	1.9	0.000 000	0.002





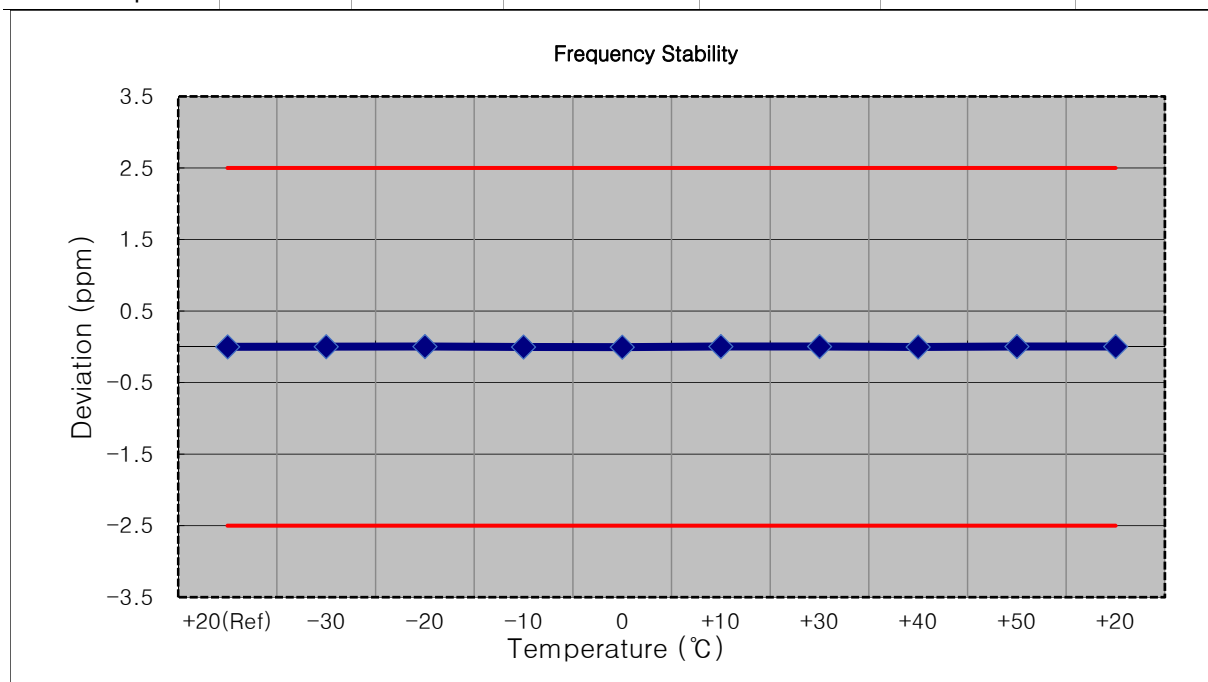
MODE:	<u>LTE B5</u>
OPERATING FREQUENCY:	<u>836,500,000 Hz</u>
CHANNEL:	<u>20525(5 MHz)</u>
REFERENCE VOLTAGE:	<u>3.860 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.860	+20(Ref)	836 500 002	0.0	0.000 000	0.000
100 %		-30	836 500 000	-1.9	0.000 000	-0.002
100 %		-20	836 500 005	2.8	0.000 000	0.003
100 %		-10	836 500 006	3.9	0.000 000	0.005
100 %		0	836 500 005	2.7	0.000 000	0.003
100 %		+10	836 500 004	2.0	0.000 000	0.002
100 %		+30	836 500 005	2.2	0.000 000	0.003
100 %		+40	836 500 005	2.2	0.000 000	0.003
100 %		+50	836 500 001	-1.8	0.000 000	-0.002
Batt. Endpoint	3.400	+20	836 500 001	-1.8	0.000 000	-0.002



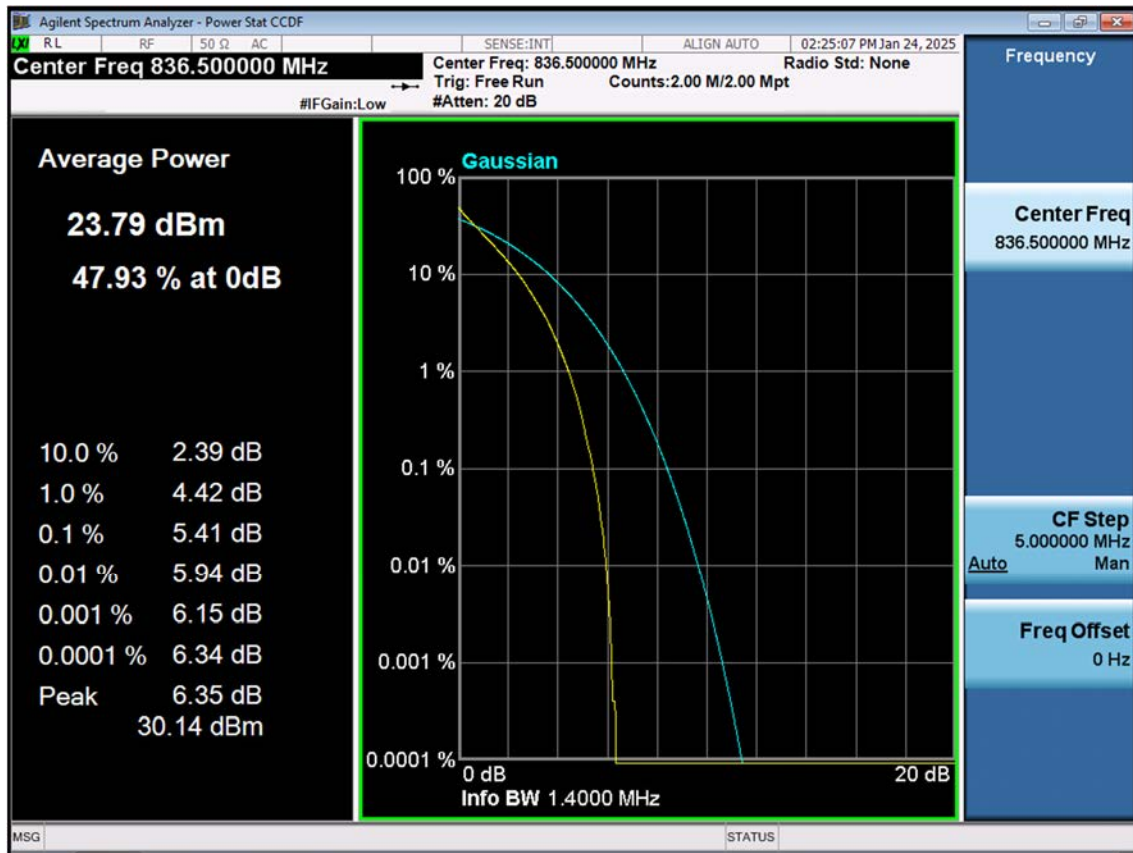
MODE:	<u>LTE B5</u>
OPERATING FREQUENCY:	<u>836,500,000 Hz</u>
CHANNEL:	<u>20525(10 MHz)</u>
REFERENCE VOLTAGE:	<u>3.860 VDC</u>
DEVIATION LIMIT:	<u>± 0.000 25 % or 2.5 ppm</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	ppm
(%)	(VDC)	(°C)	(Hz)	Error (Hz)	(%)	
100 %	3.860	+20(Ref)	836 500 004	0.0	0.000 000	0.000
100 %		-30	836 500 006	2.2	0.000 000	0.003
100 %		-20	836 500 007	3.0	0.000 000	0.004
100 %		-10	836 500 002	-2.1	0.000 000	-0.003
100 %		0	836 500 000	-3.8	0.000 000	-0.005
100 %		+10	836 500 007	3.4	0.000 000	0.004
100 %		+30	836 500 007	3.1	0.000 000	0.004
100 %		+40	836 500 002	-1.5	0.000 000	-0.002
100 %		+50	836 500 007	2.7	0.000 000	0.003
Batt. Endpoint	3.400	+20	836 500 007	2.8	0.000 000	0.003

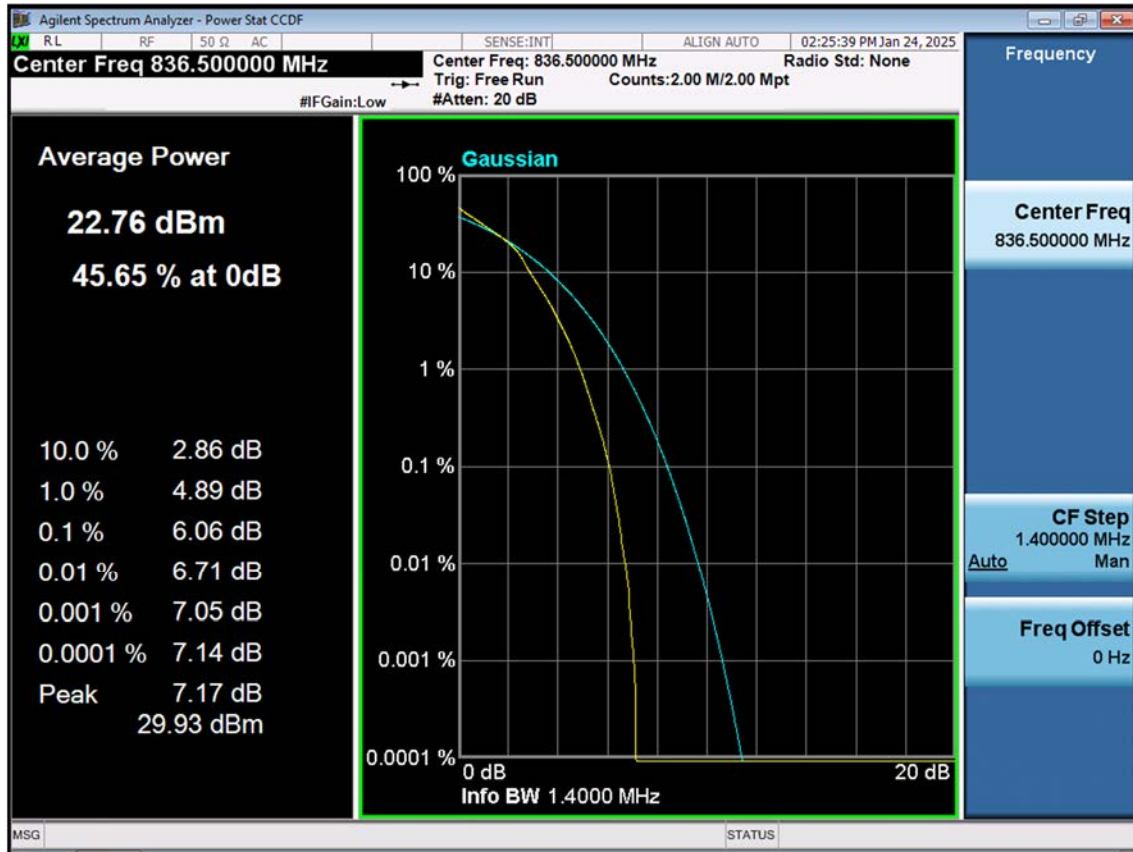


## 9. TEST PLOTS

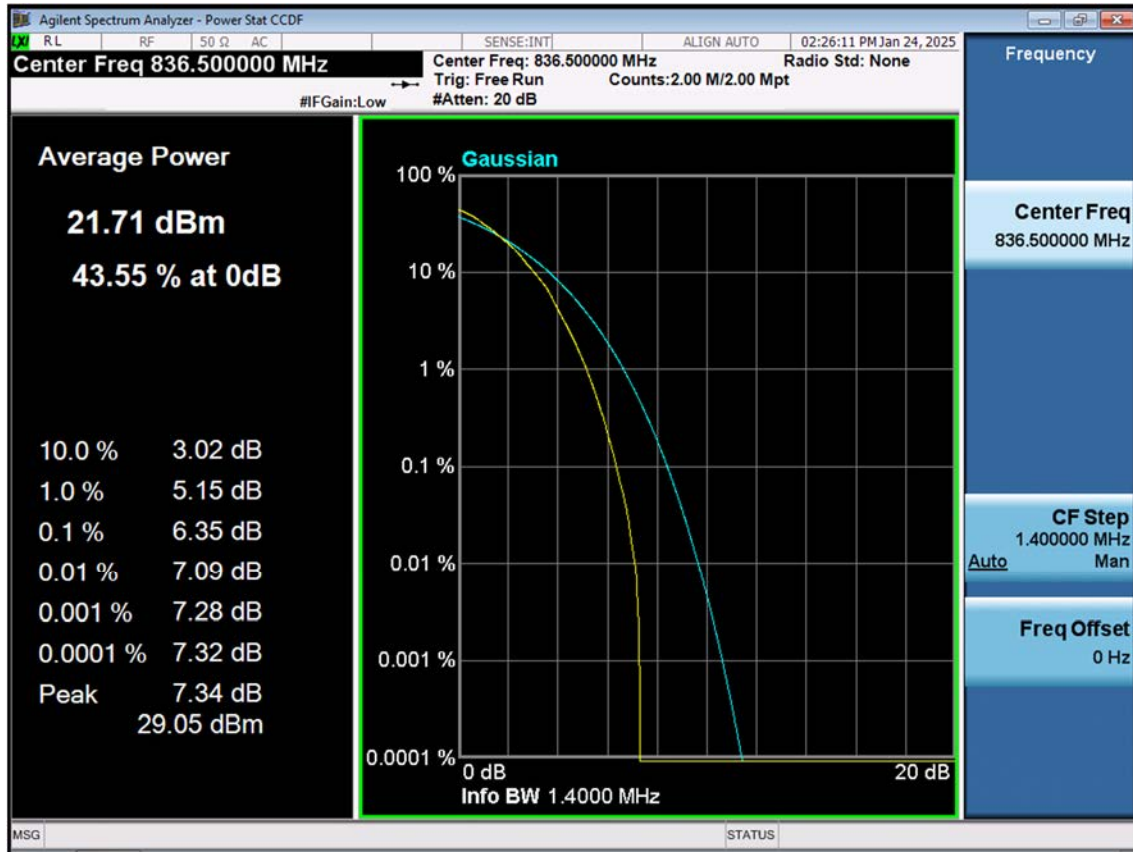
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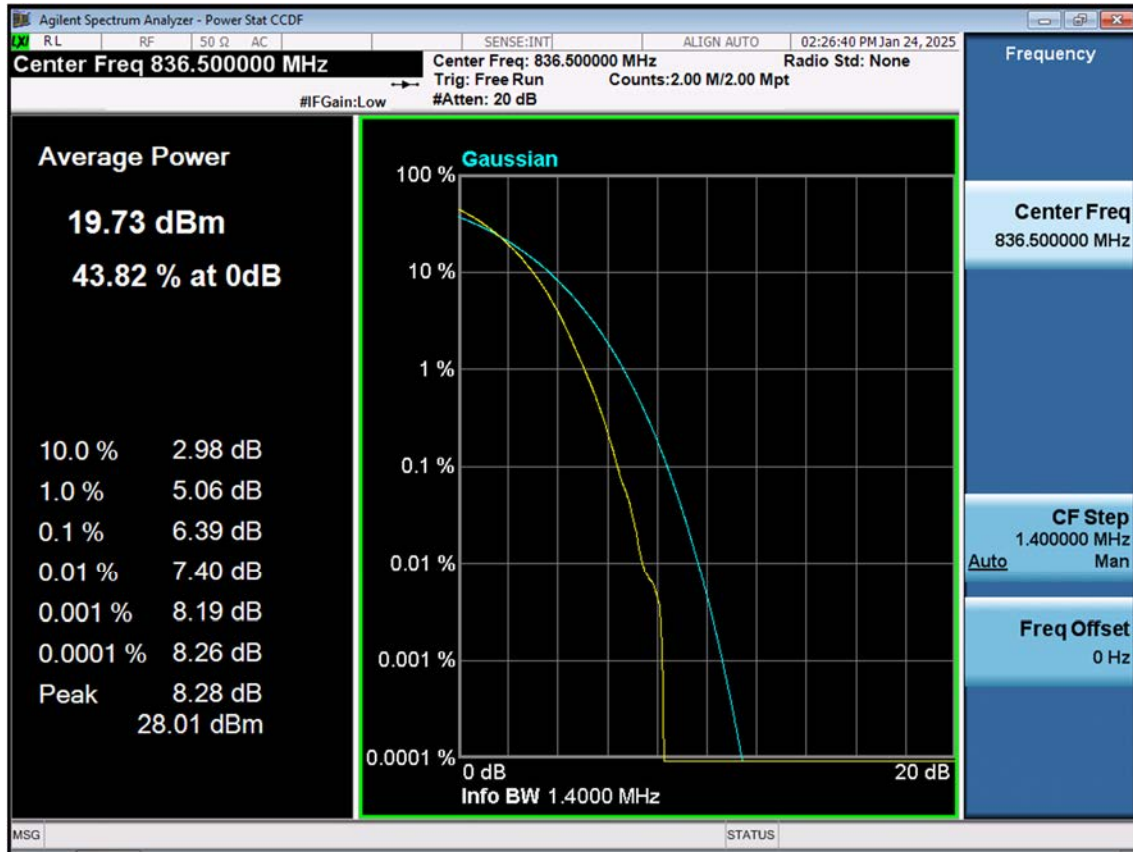
## LTE B5\_1.4M\_PAR\_Mid\_16QAM\_FullRB



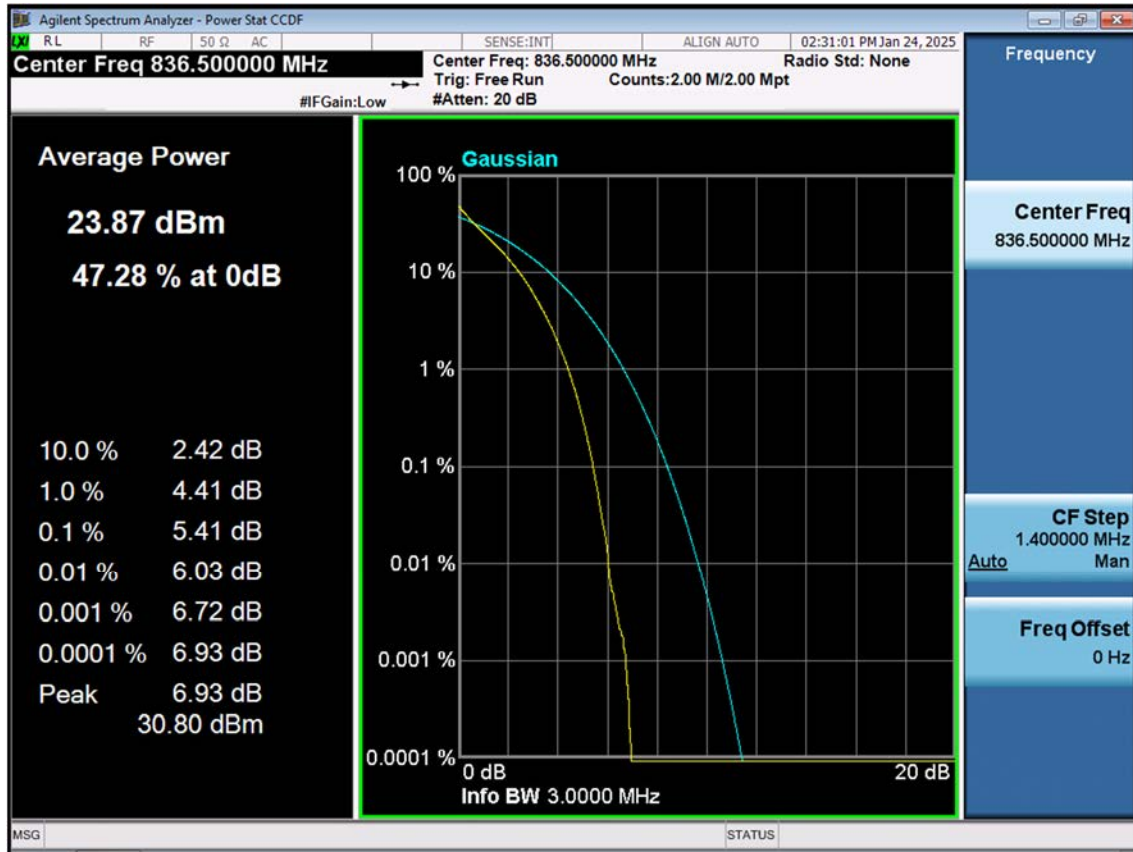
## LTE B5\_1.4M\_PAR\_Mid\_64QAM\_FullRB



## LTE B5\_1.4M\_PAR\_Mid\_256QAM\_FullRB

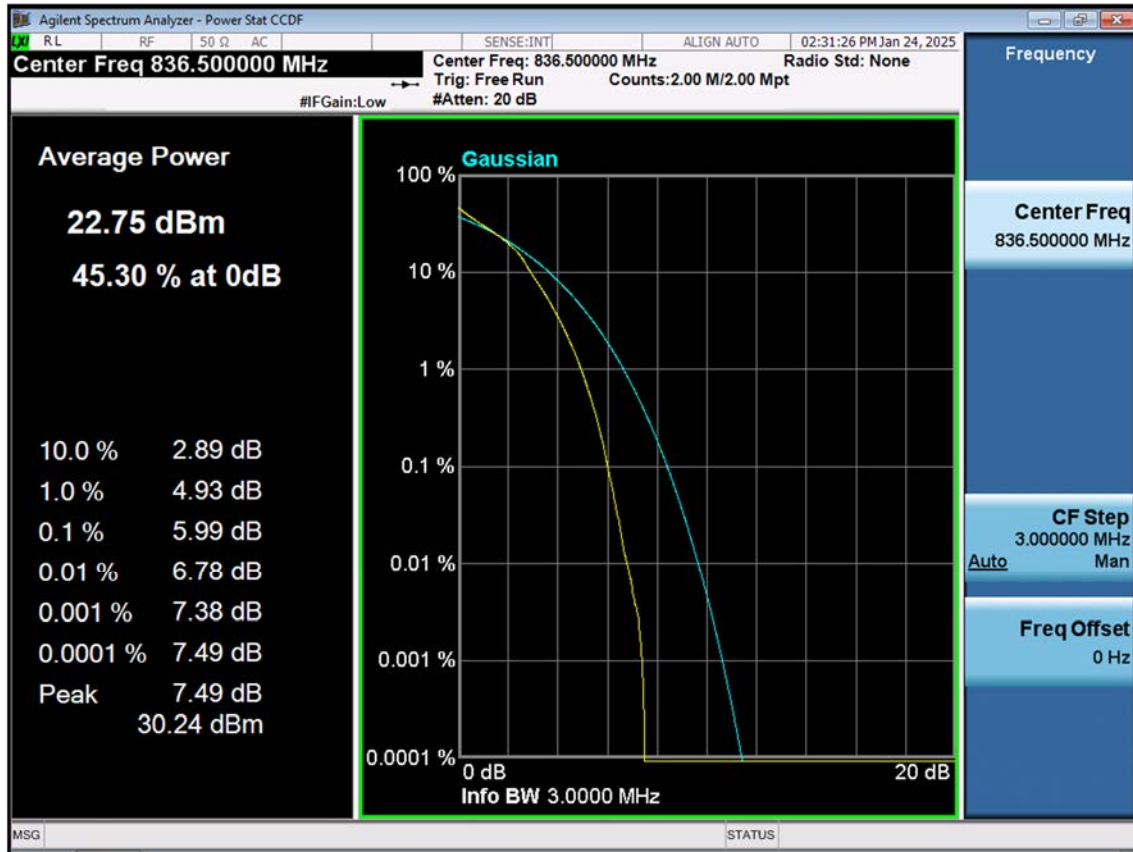


## LTE B5\_3 M\_PAR\_Mid\_QPSK\_FullRB

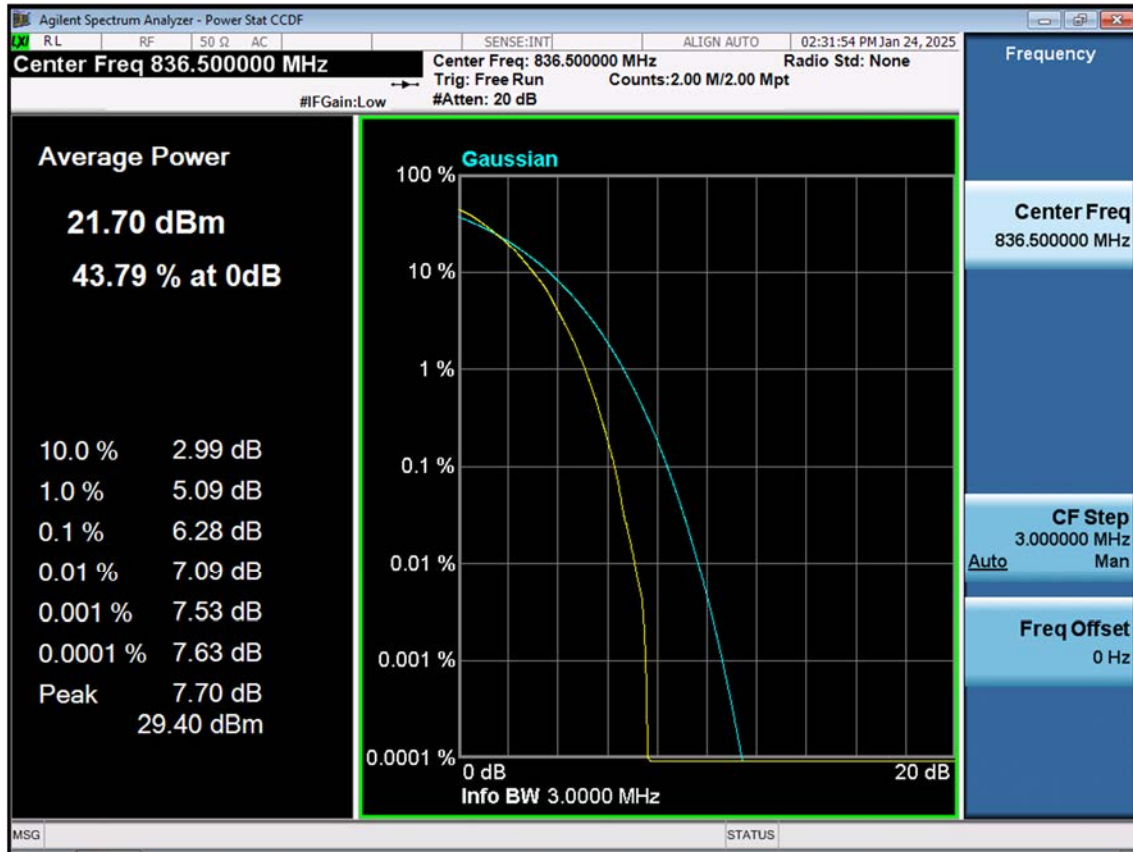




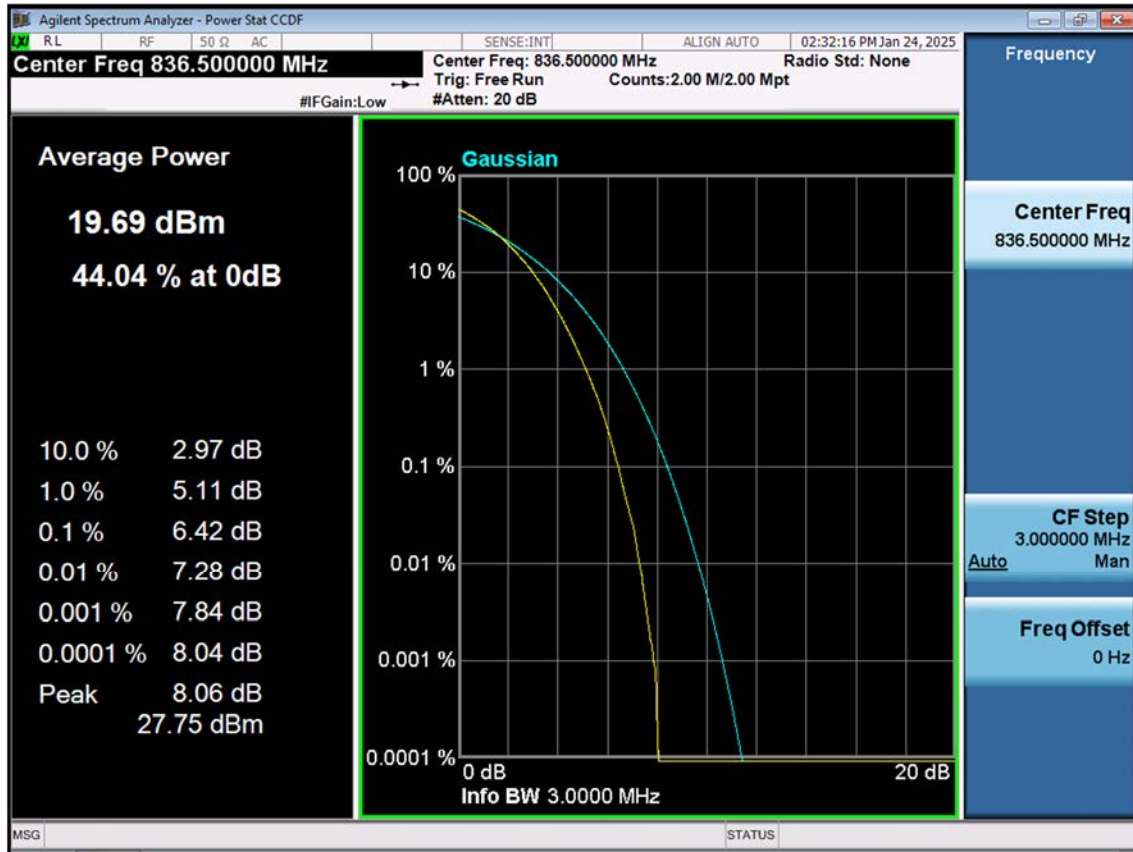
## LTE B5\_3 M\_PAR\_Mid\_16QAM\_FullRB



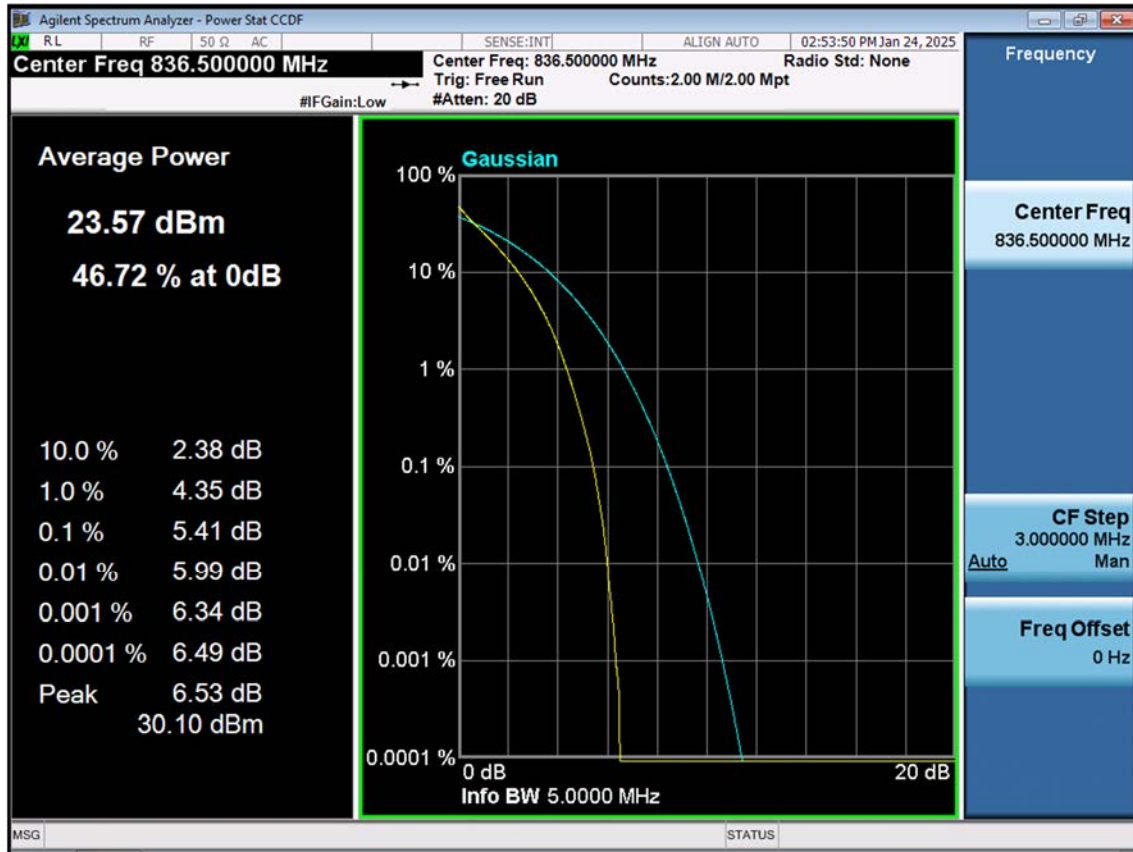
## LTE B5\_3 M\_PAR\_Mid\_64QAM\_FullRB



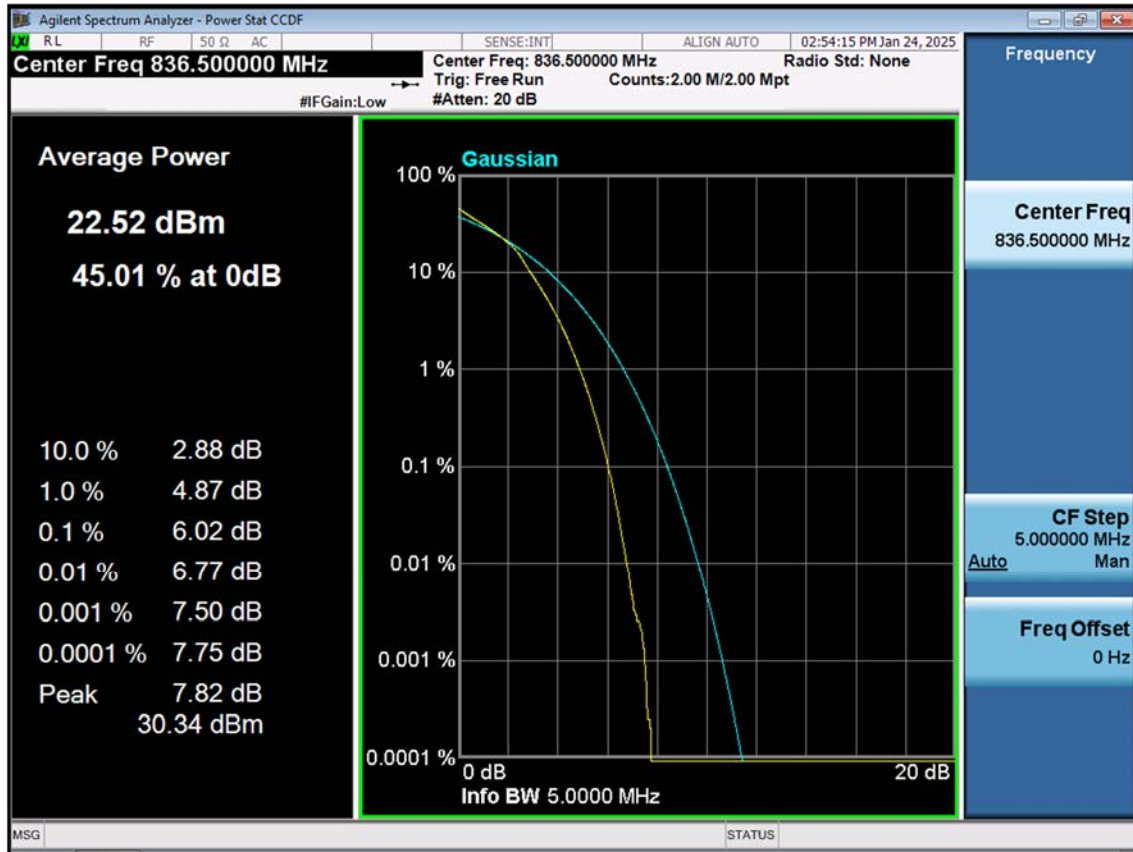
## LTE B5\_3 M\_PAR\_Mid\_256QAM\_FullRB



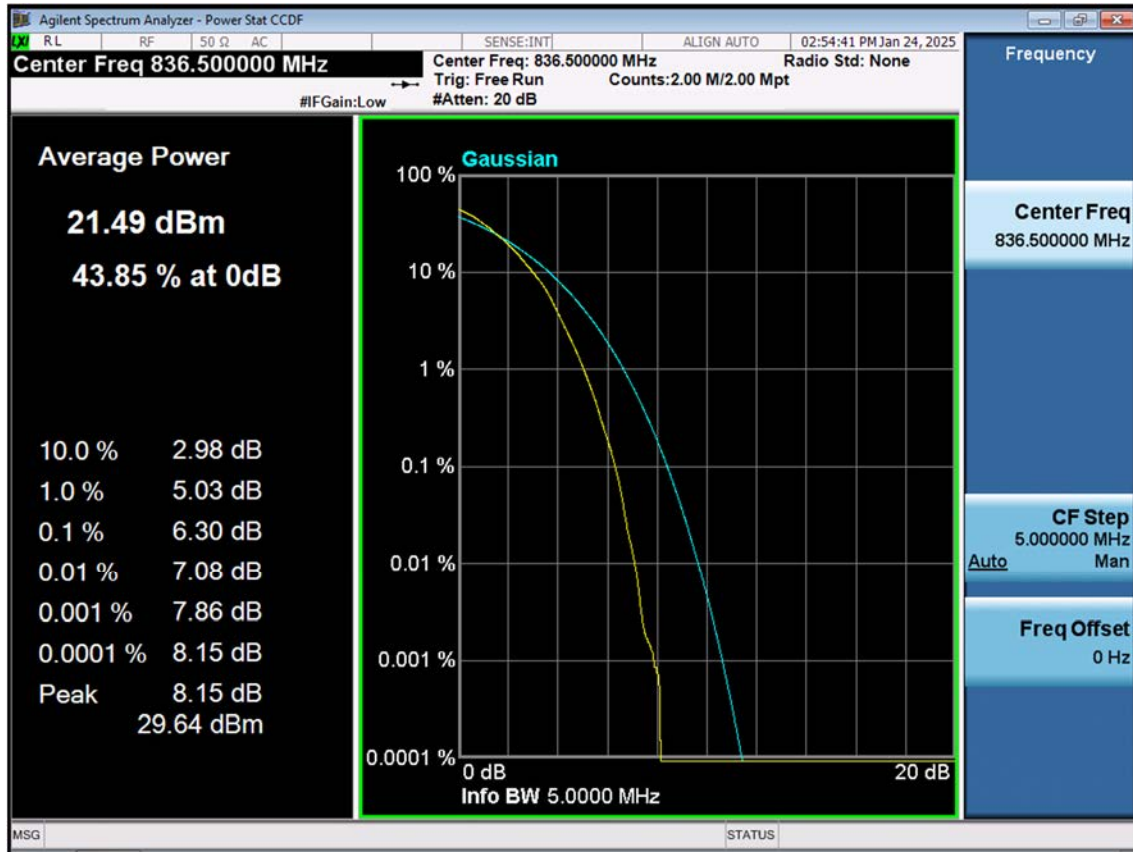
## LTE B5\_5 M\_PAR\_Mid\_QPSK\_FullRB



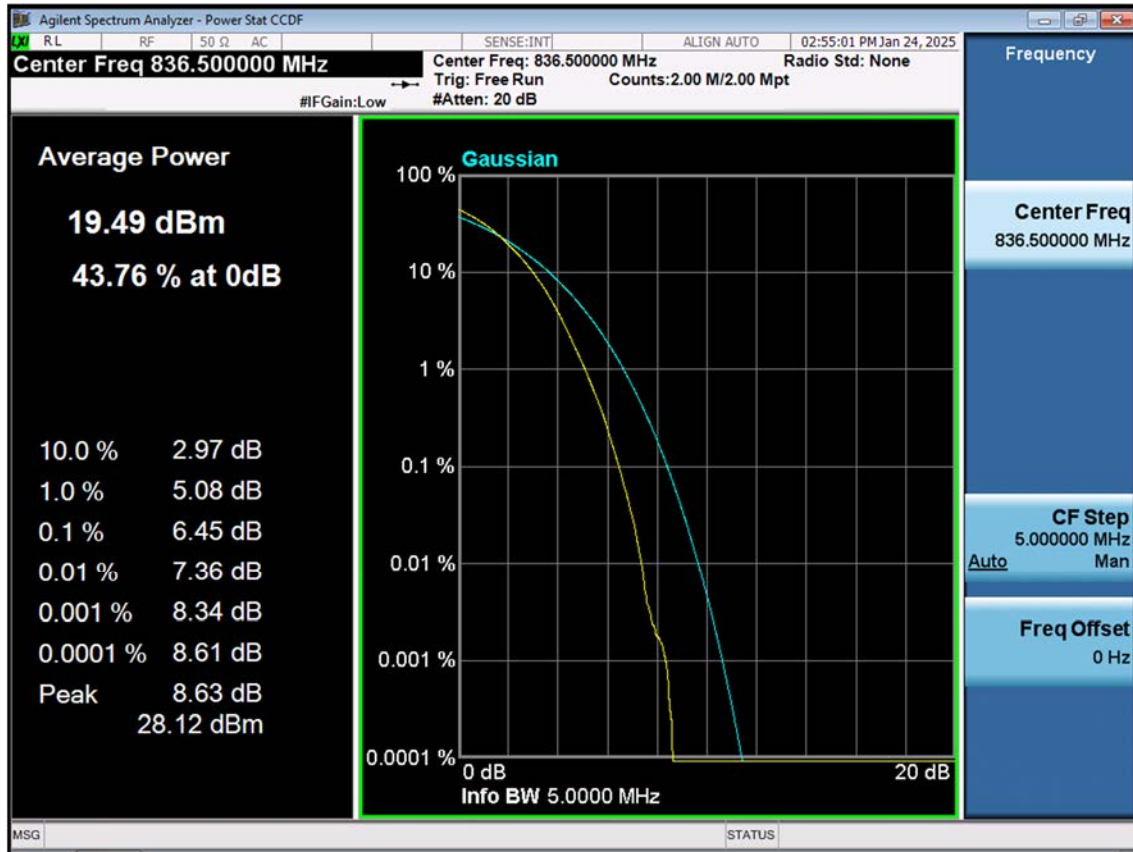
## LTE B5\_5 M\_PAR\_Mid\_16QAM\_FullRB



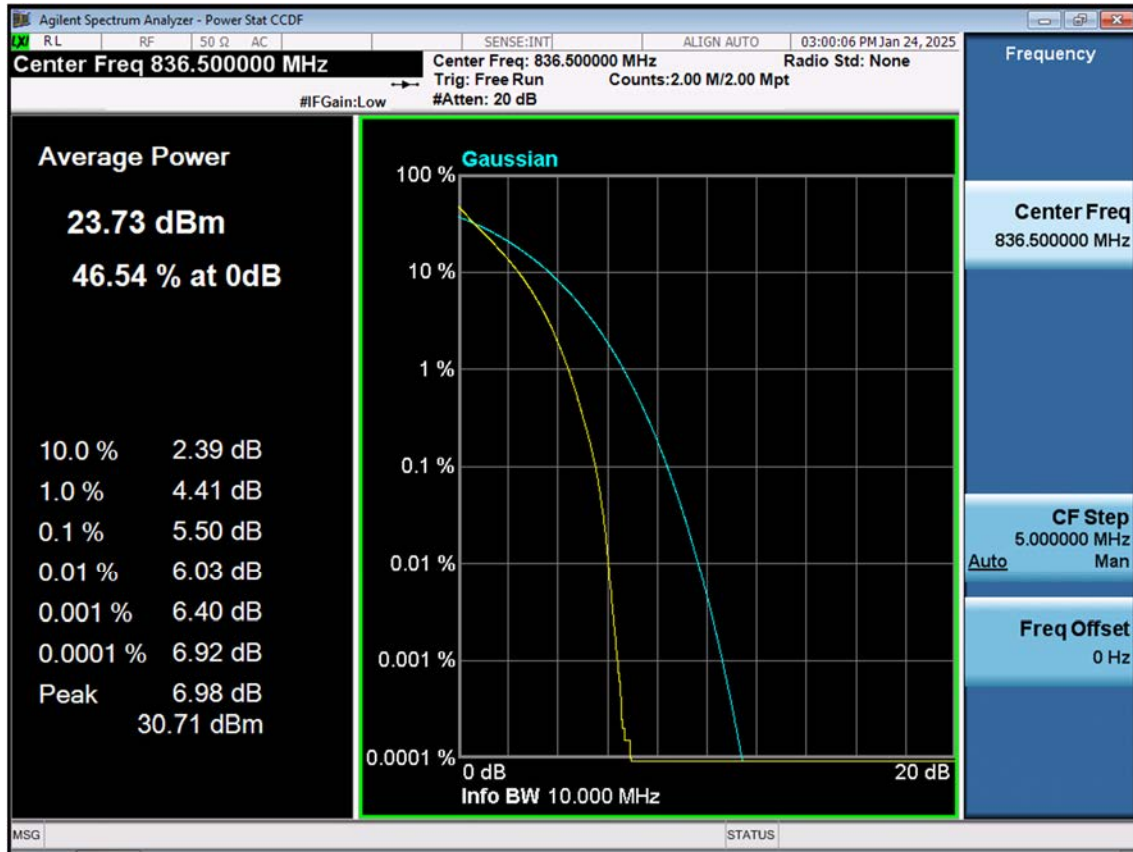
## LTE B5\_5 M\_PAR\_Mid\_64QAM\_FullRB



## LTE B5\_5 M\_PAR\_Mid\_256QAM\_FullRB

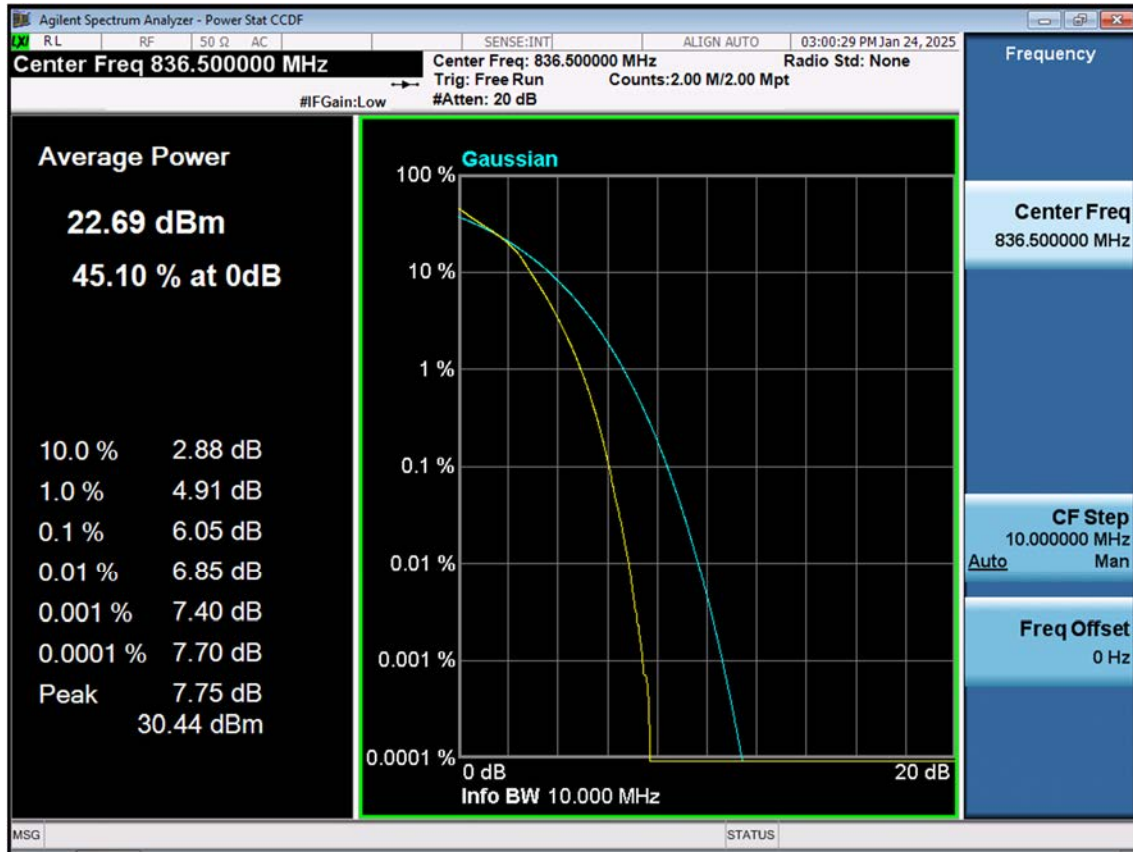


## LTE B5\_10 M\_PAR\_Mid\_QPSK\_FullRB

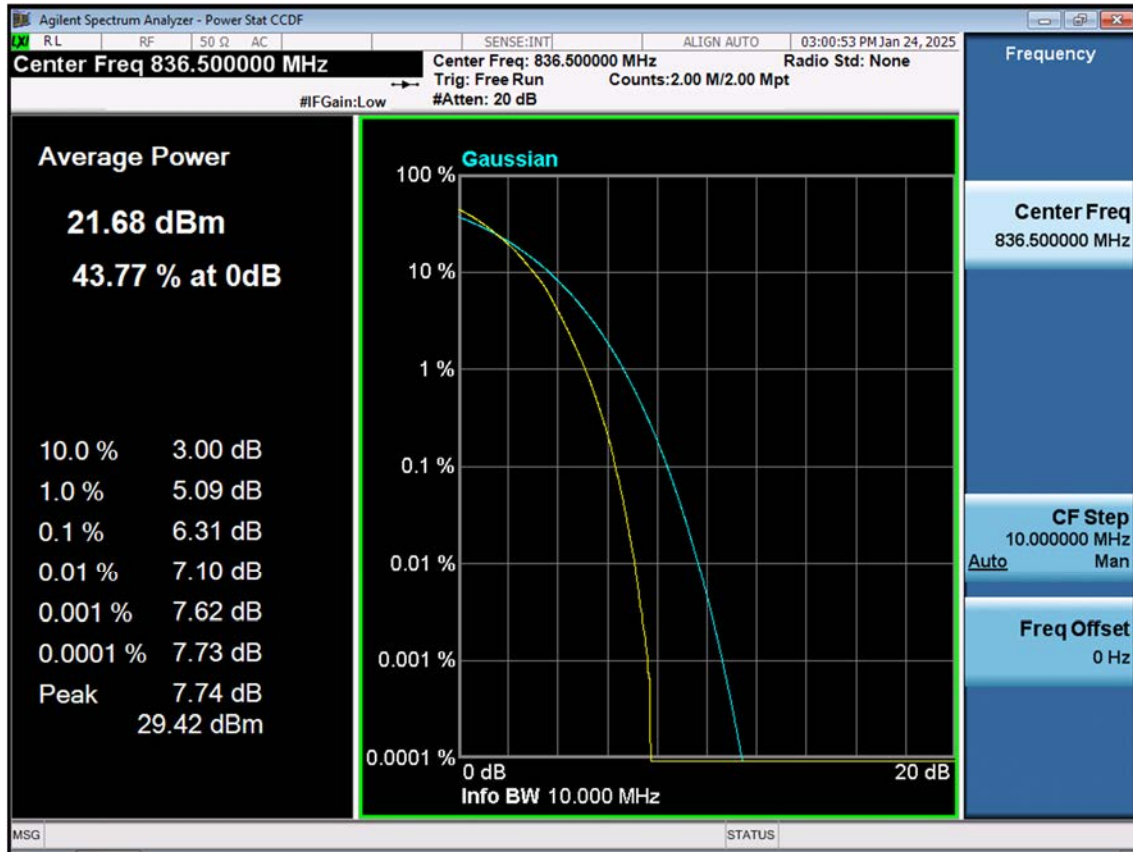




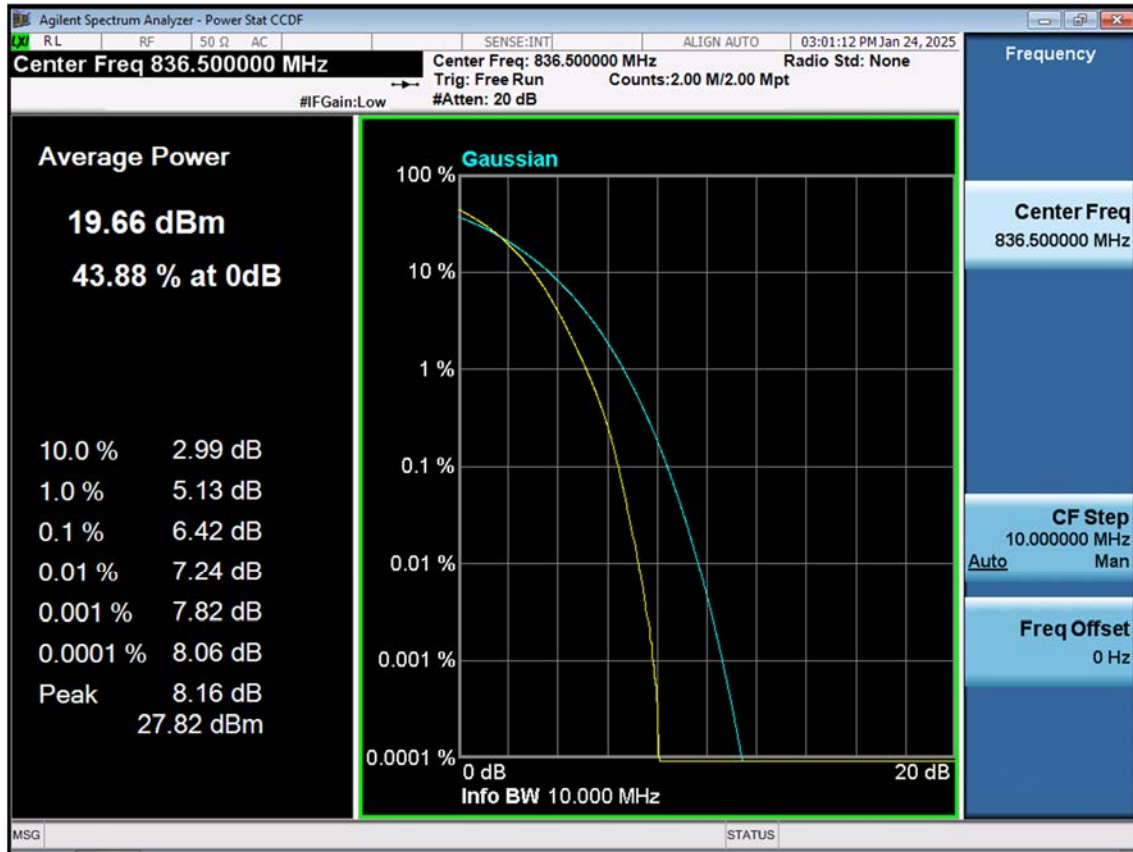
## LTE B5\_10 M\_PAR\_Mid\_16QAM\_FullRB



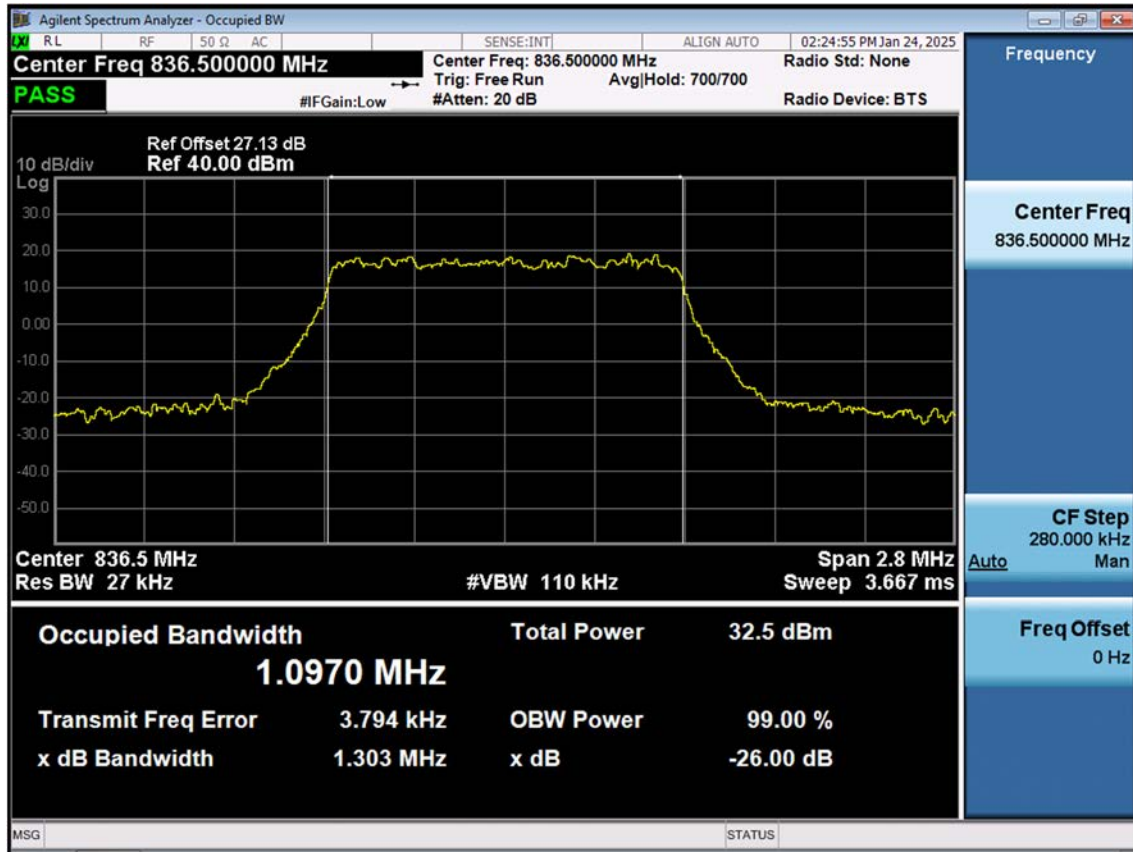
## LTE B5\_10 M\_PAR\_Mid\_64QAM\_FullRB



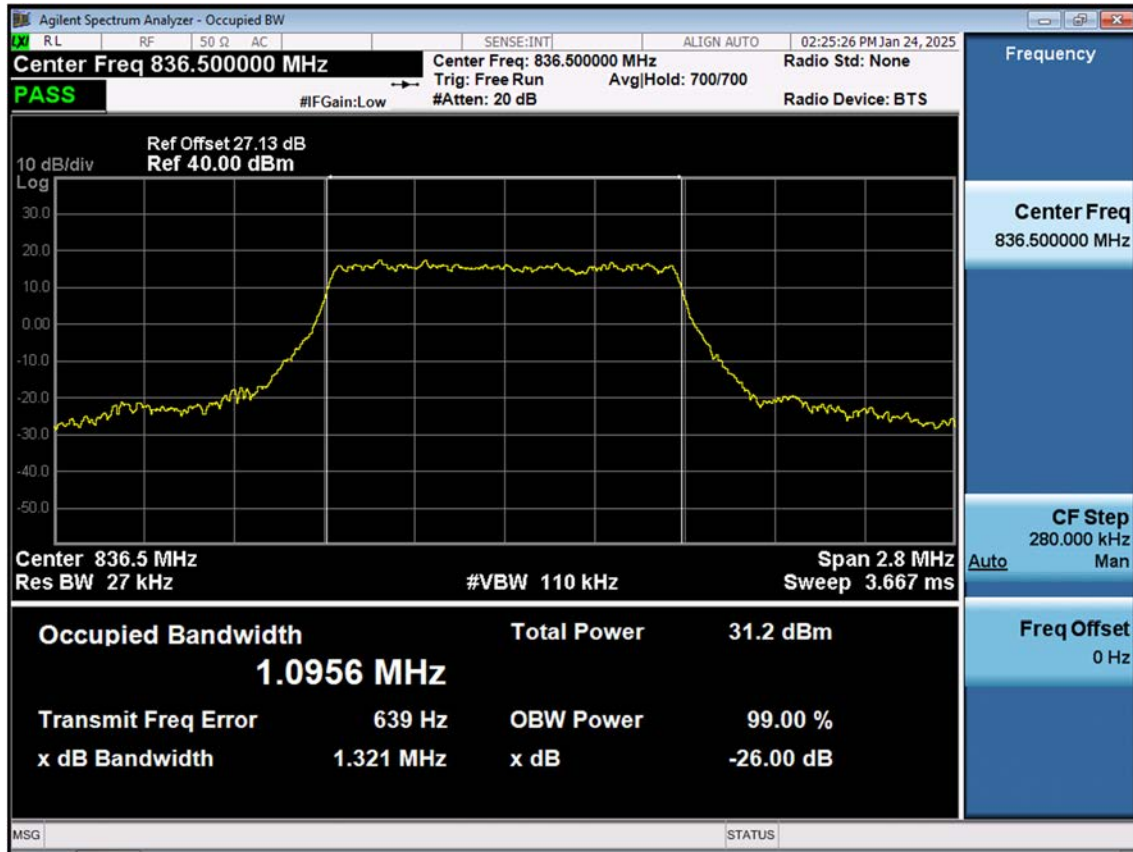
## LTE B5\_10 M\_PAR\_Mid\_256QAM\_FullRB



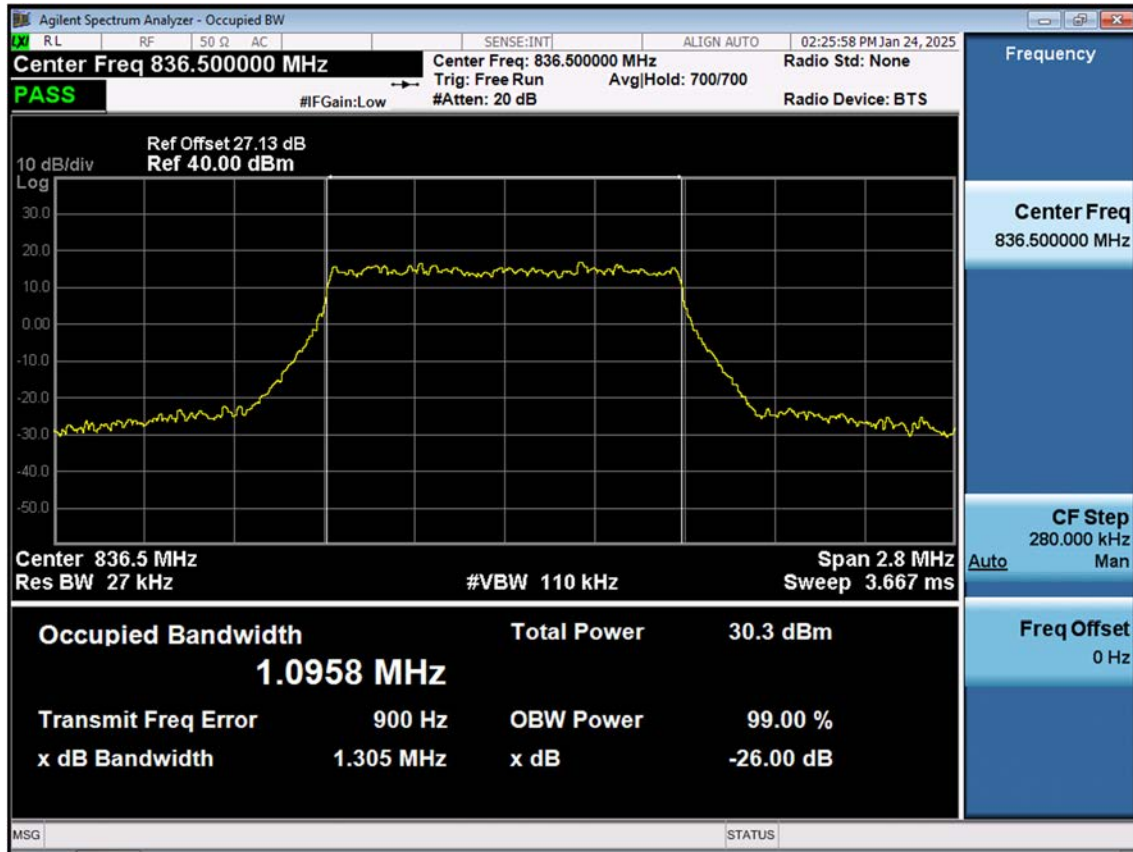
## LTE B5\_1.4M\_OBW\_Mid\_QPSK\_FullRB



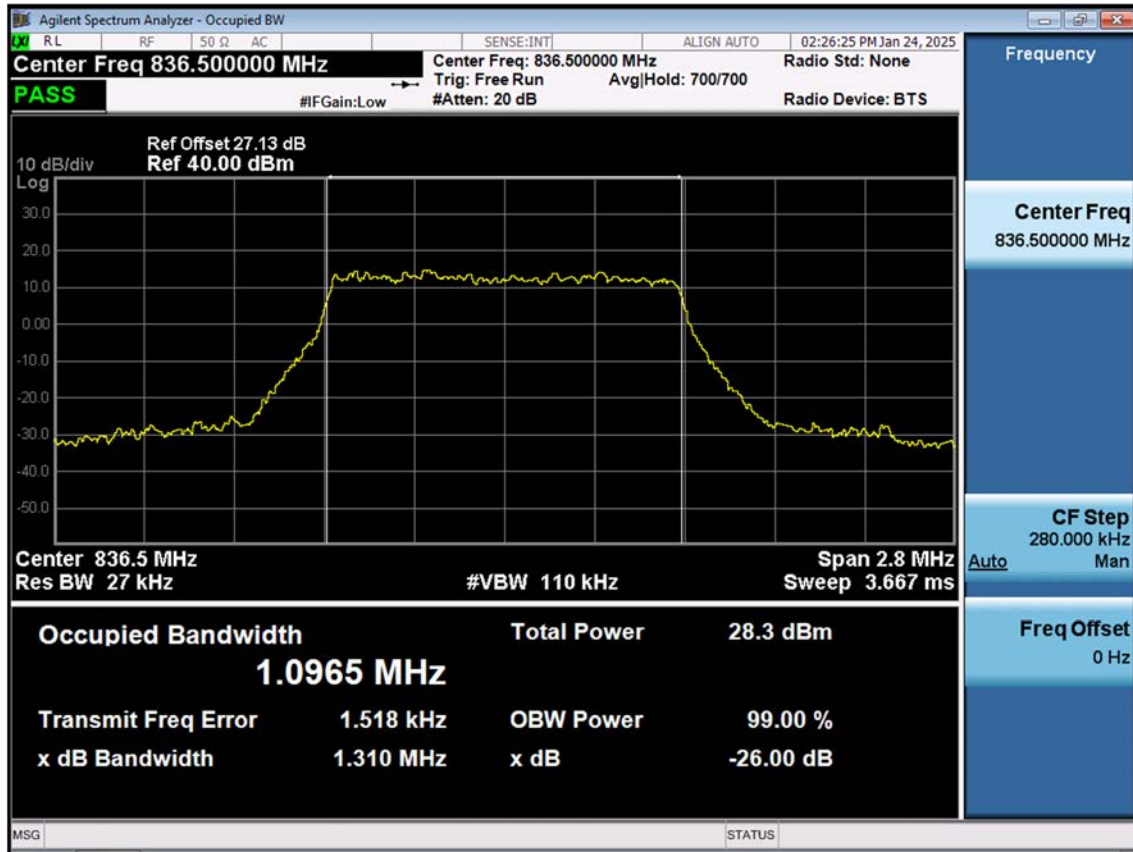
## LTE B5\_1.4M\_OBW\_Mid\_16QAM\_FullRB



## LTE B5\_1.4M\_OBW\_Mid\_64QAM\_FullRB

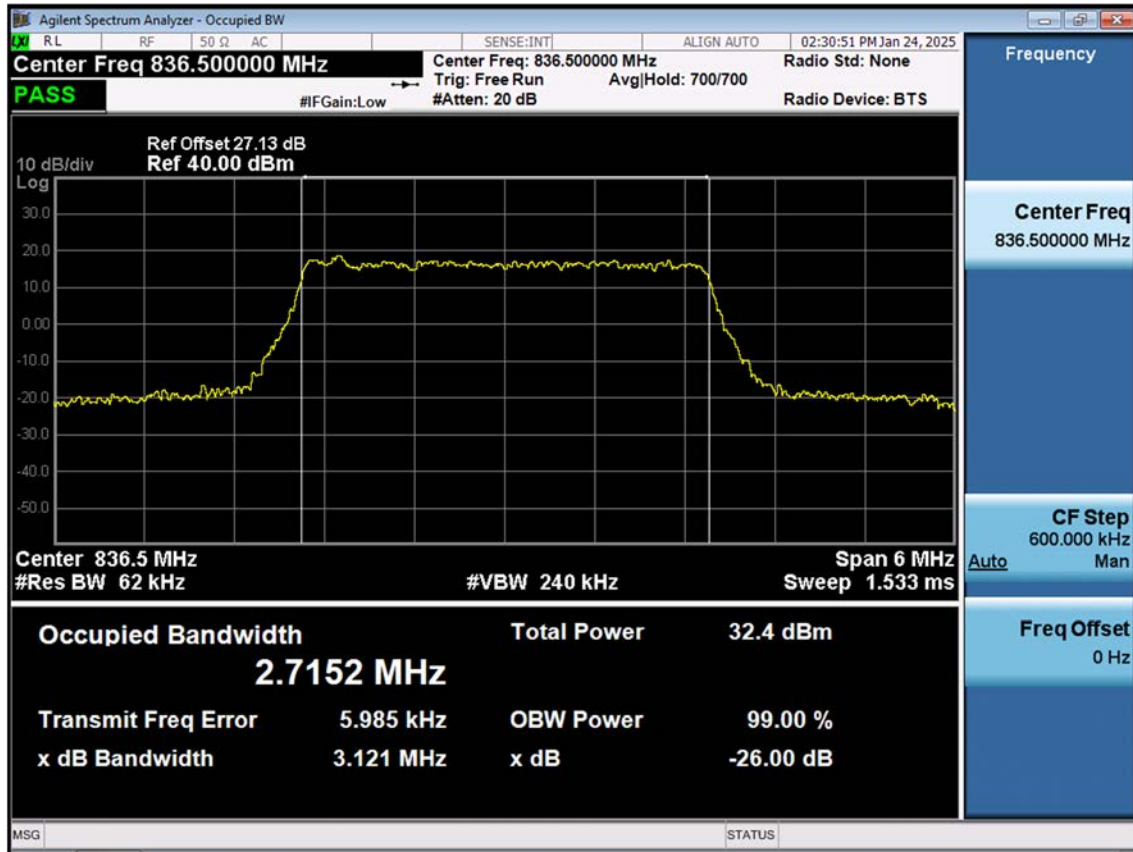


## LTE B5\_1.4M\_OBW\_Mid\_256QAM\_FullRB



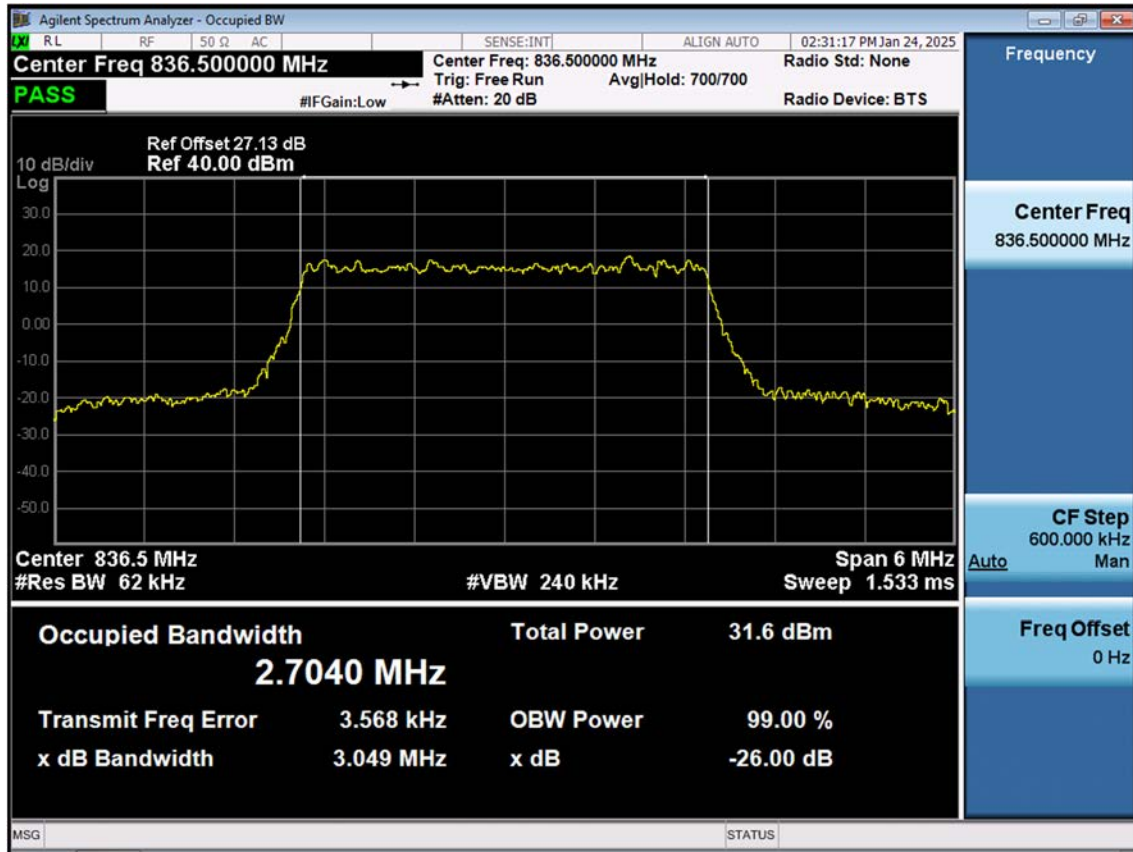


## LTE B5\_3 M\_OBW\_Mid\_QPSK\_FullRB

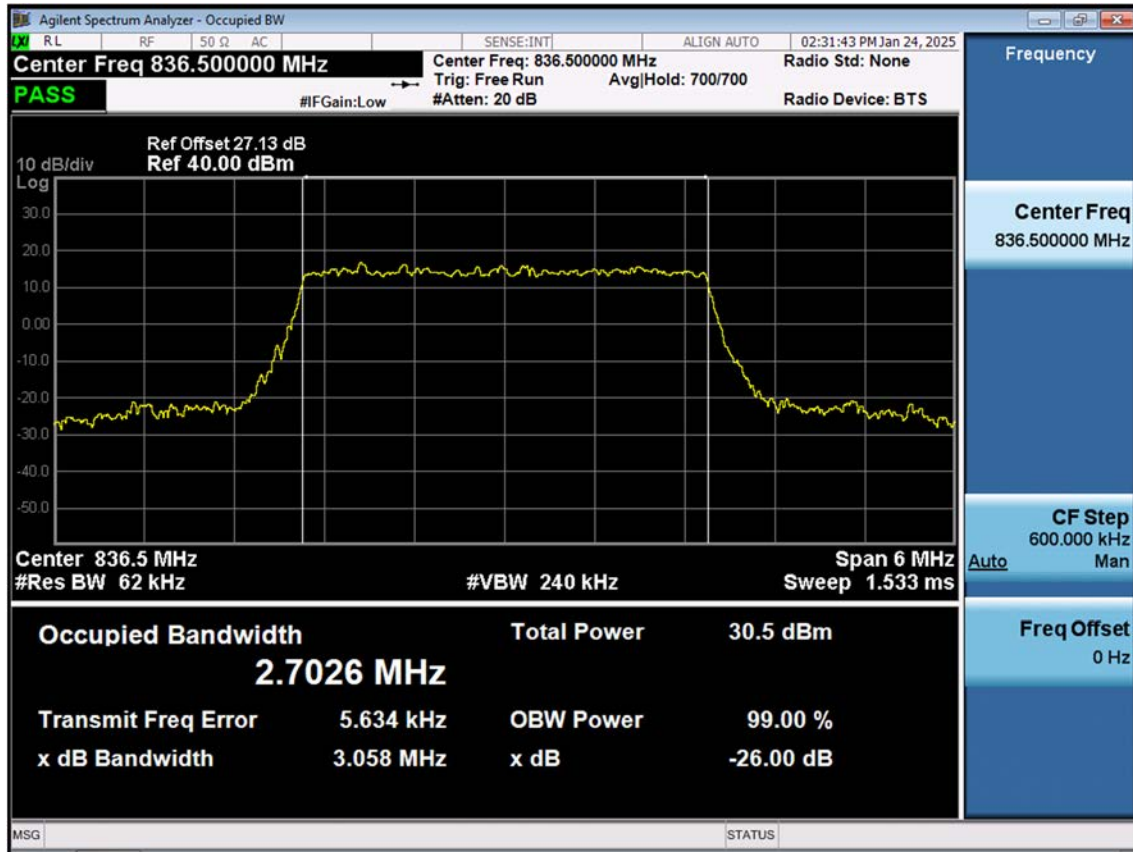




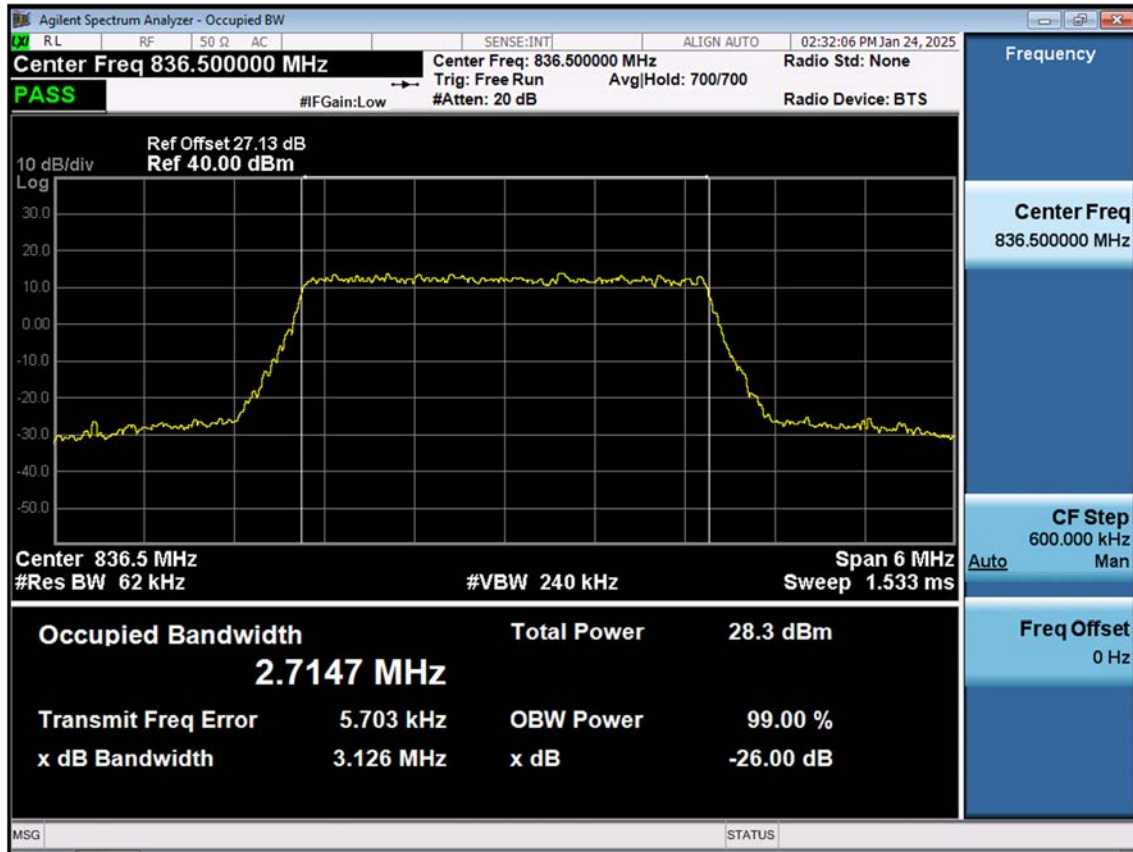
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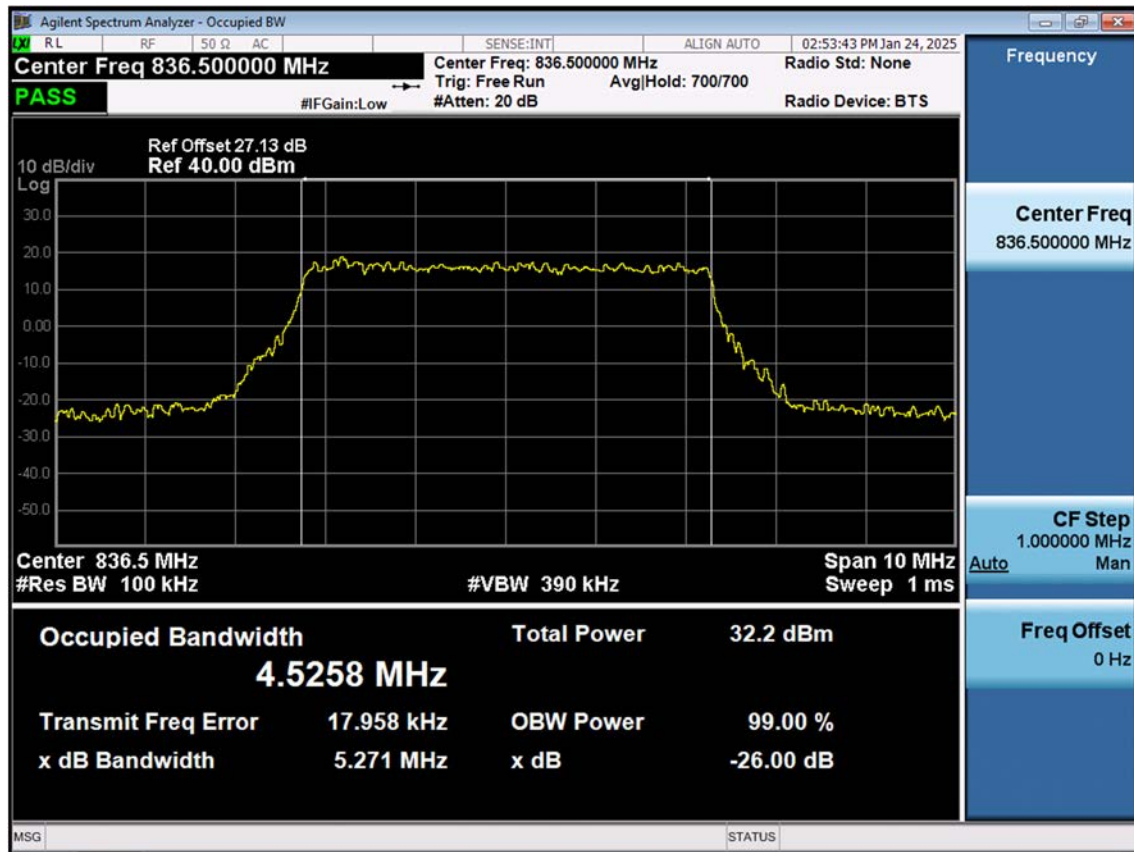
## LTE B5\_3 M\_OBW\_Mid\_64QAM\_FullRB



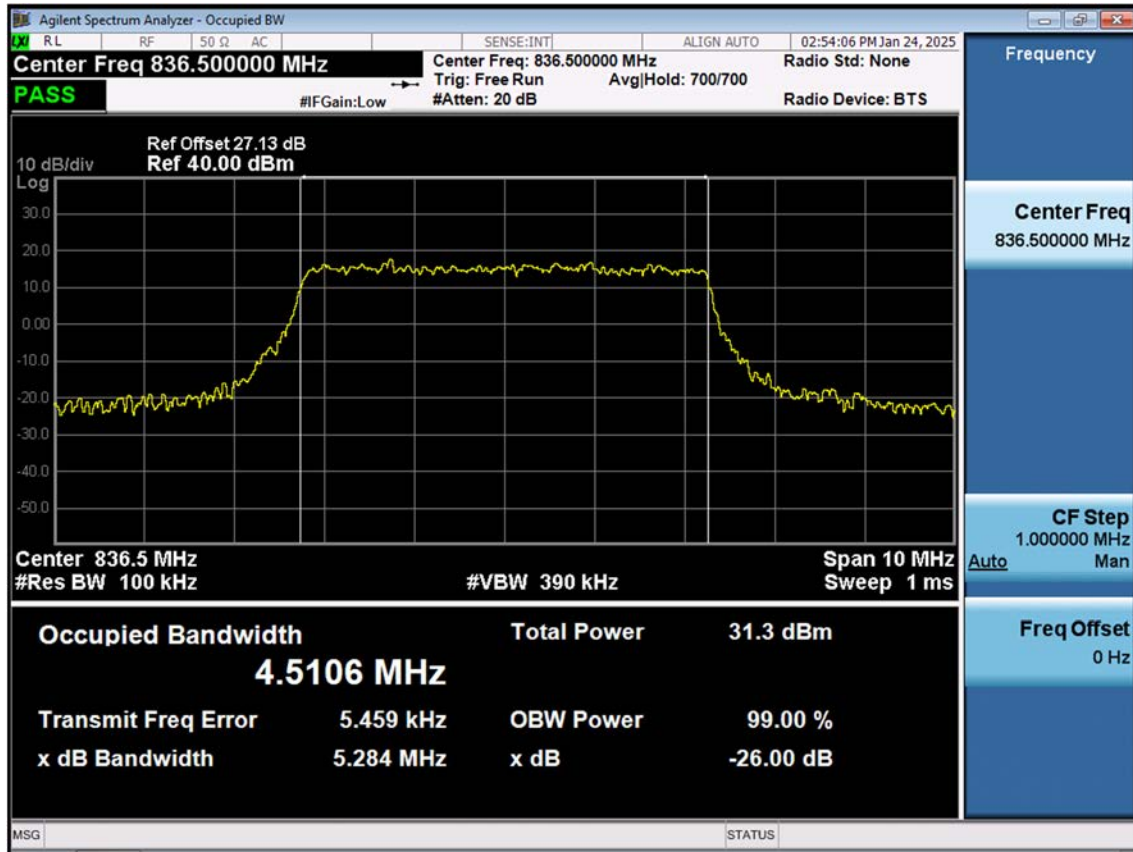
## LTE B5\_3 M\_OBW\_Mid\_256QAM\_FullRB



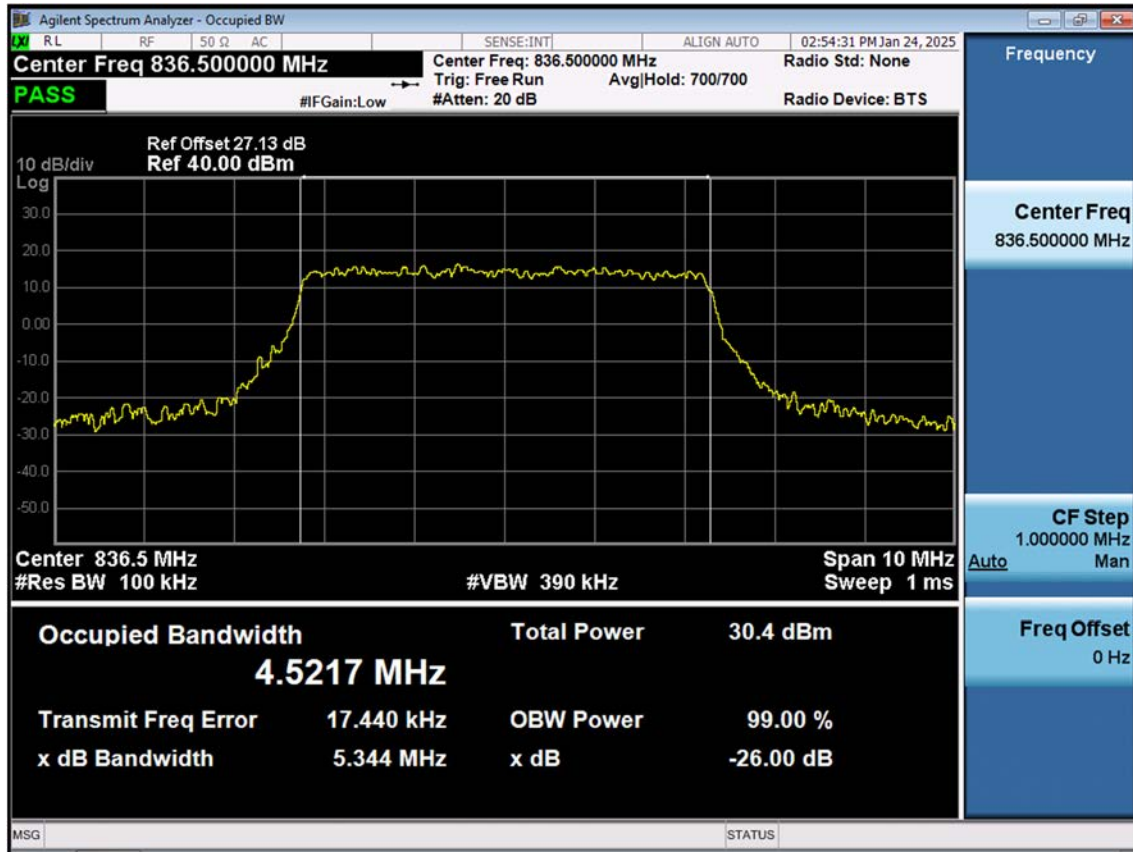
## LTE B5\_5 M\_OBW\_Mid\_QPSK\_FullRB



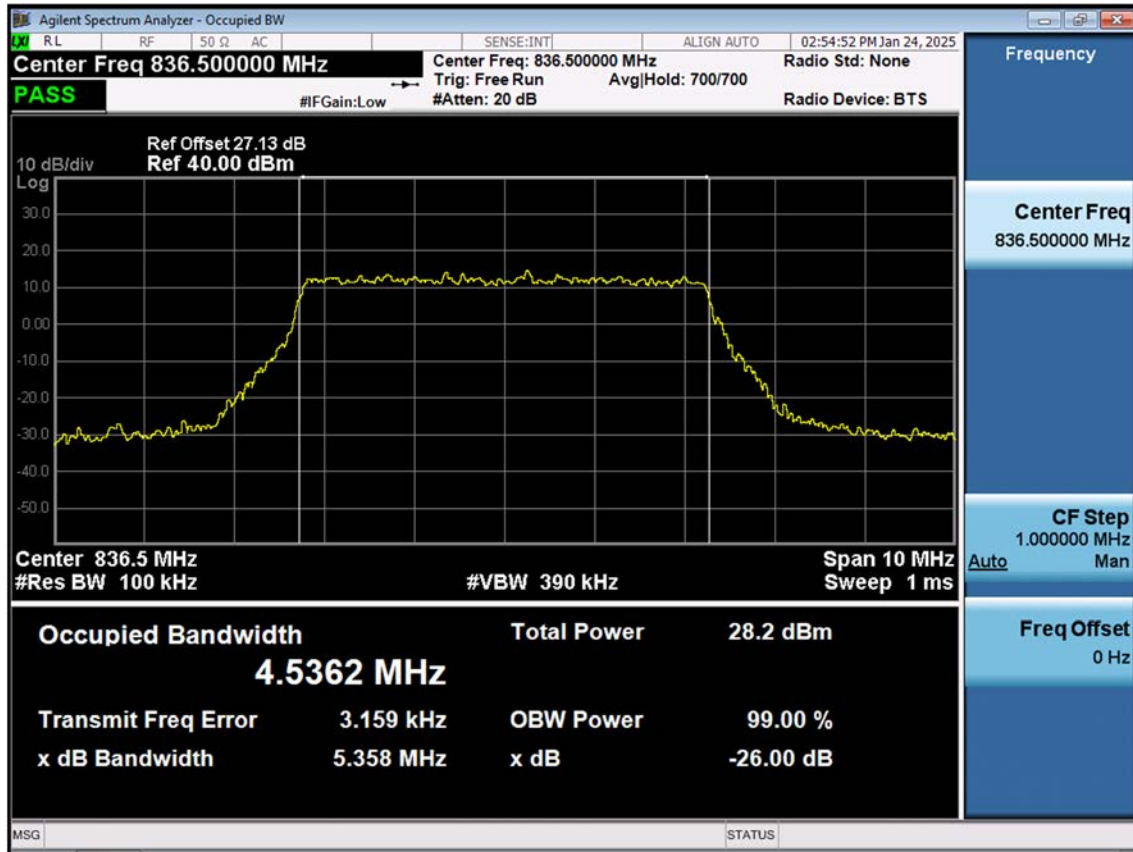
## LTE B5\_5 M\_OBW\_Mid\_16QAM\_FullRB



## LTE B5\_5 M\_OBW\_Mid\_64QAM\_FullRB

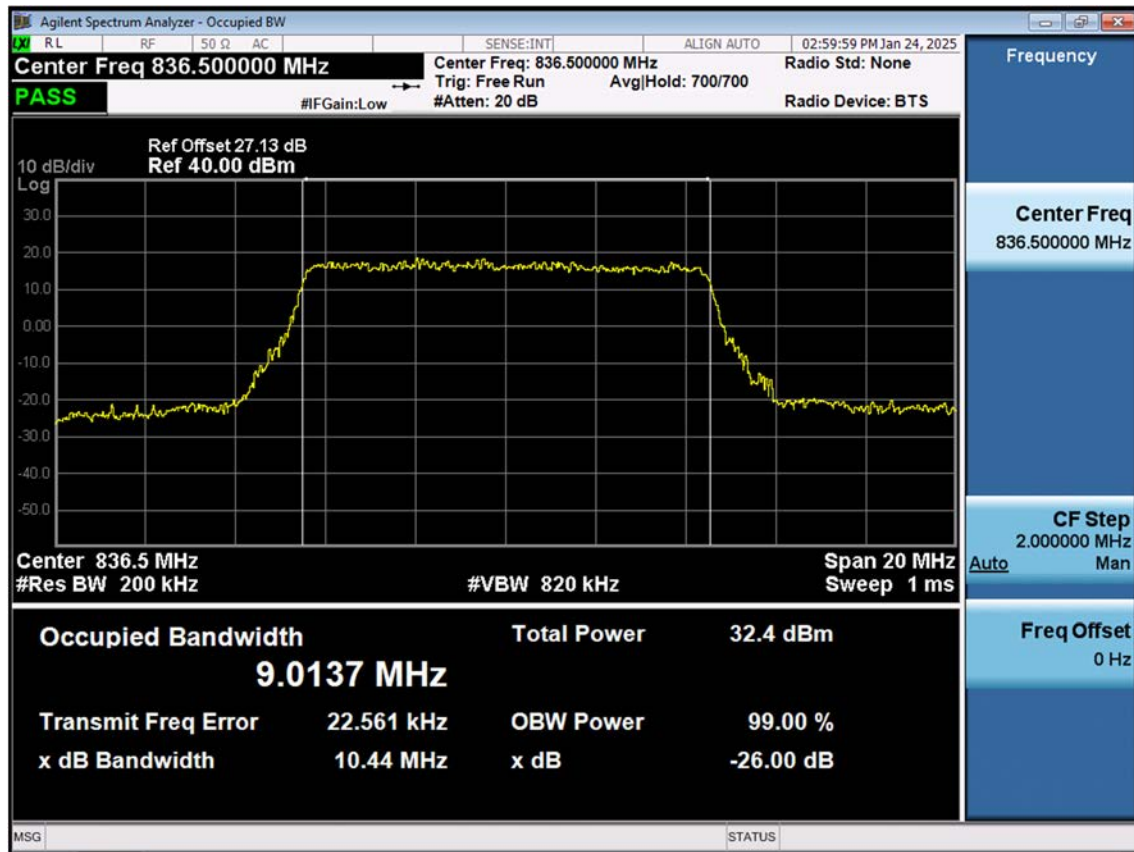


## LTE B5\_5 M\_OBW\_Mid\_256QAM\_FullRB



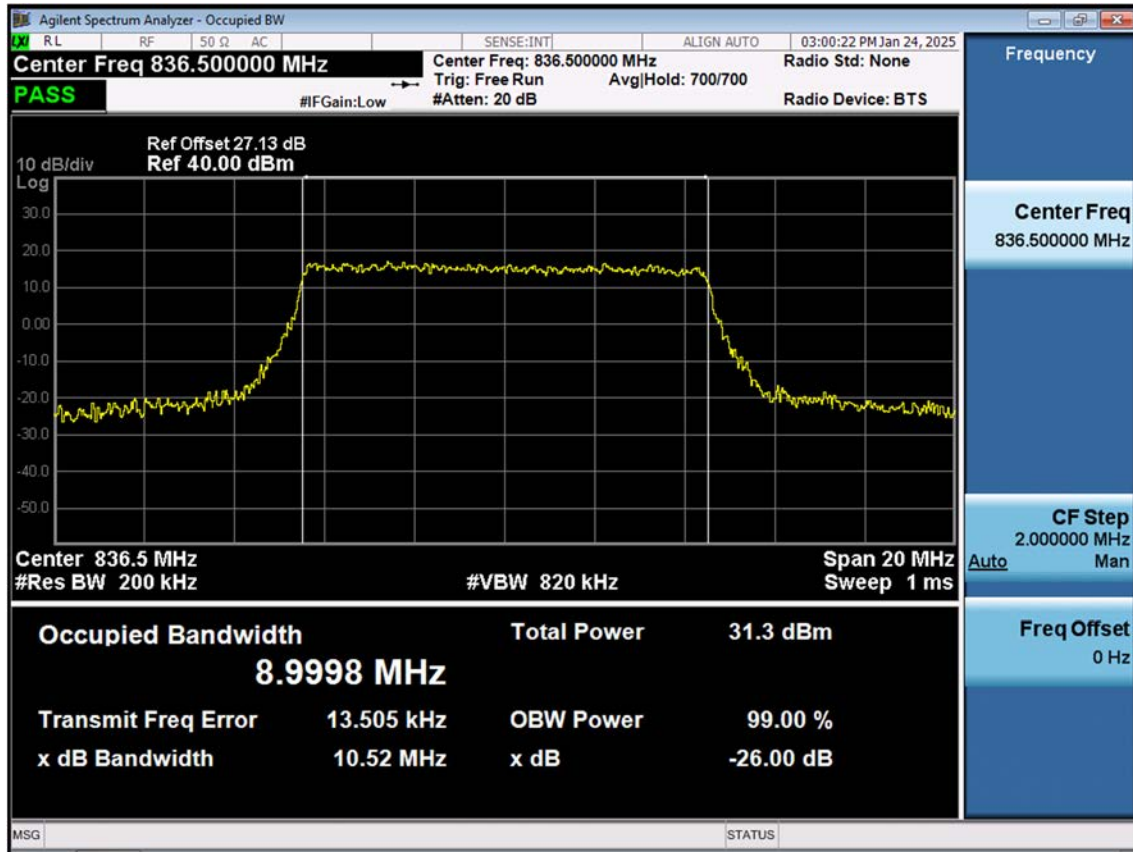


## LTE B5\_10 M\_OBW\_Mid\_QPSK\_FullRB

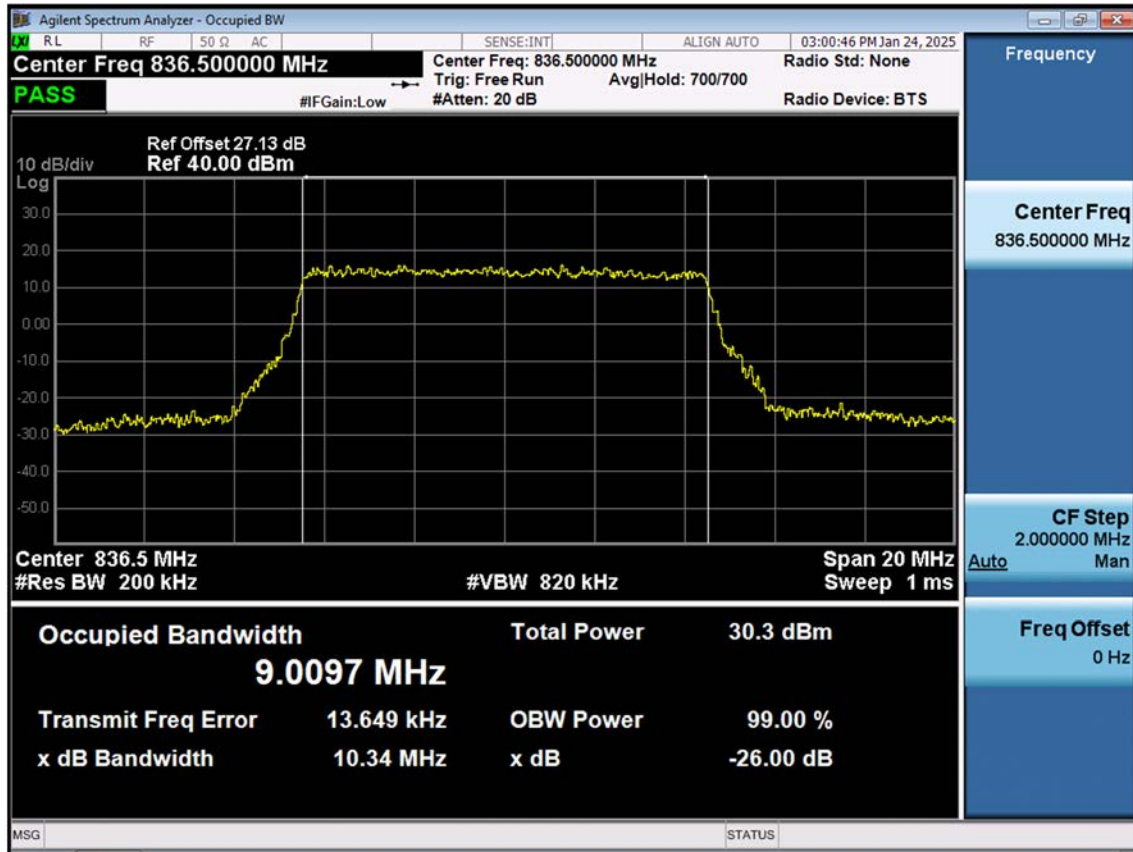




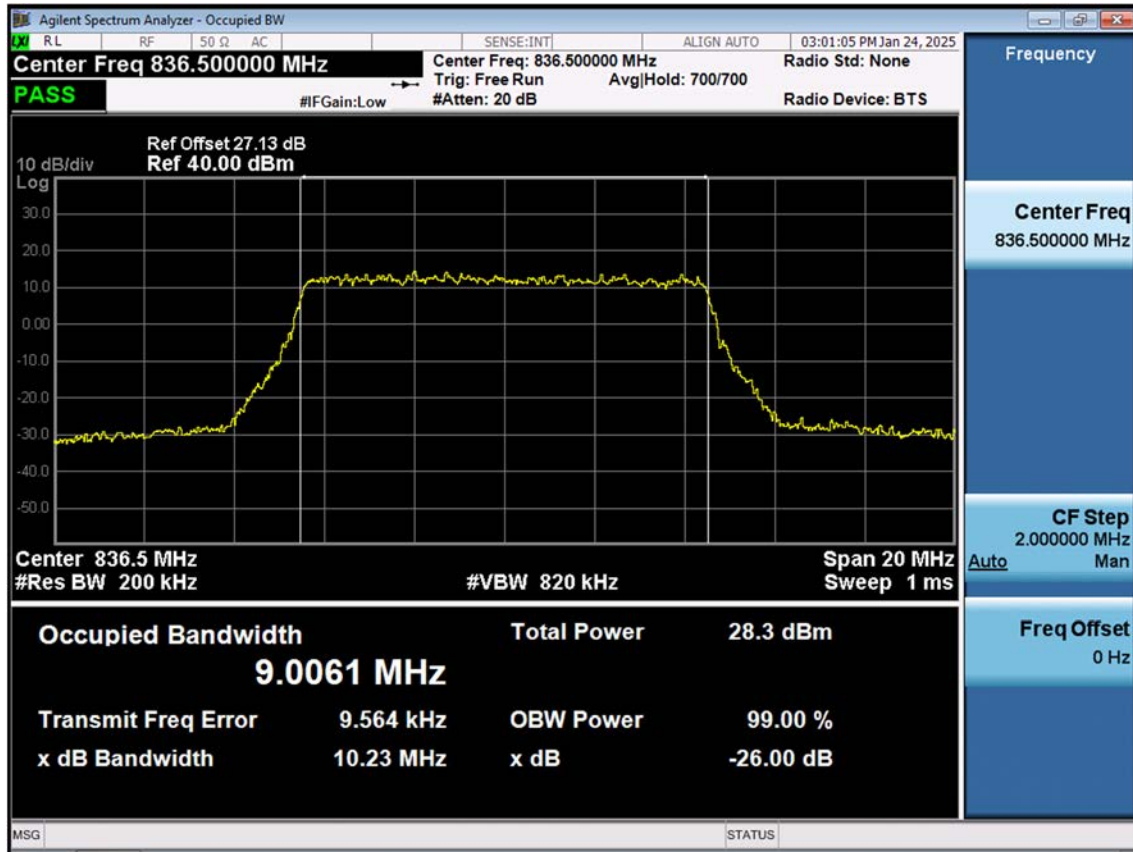
## LTE B5\_10 M\_OBW\_Mid\_16QAM\_FullRB



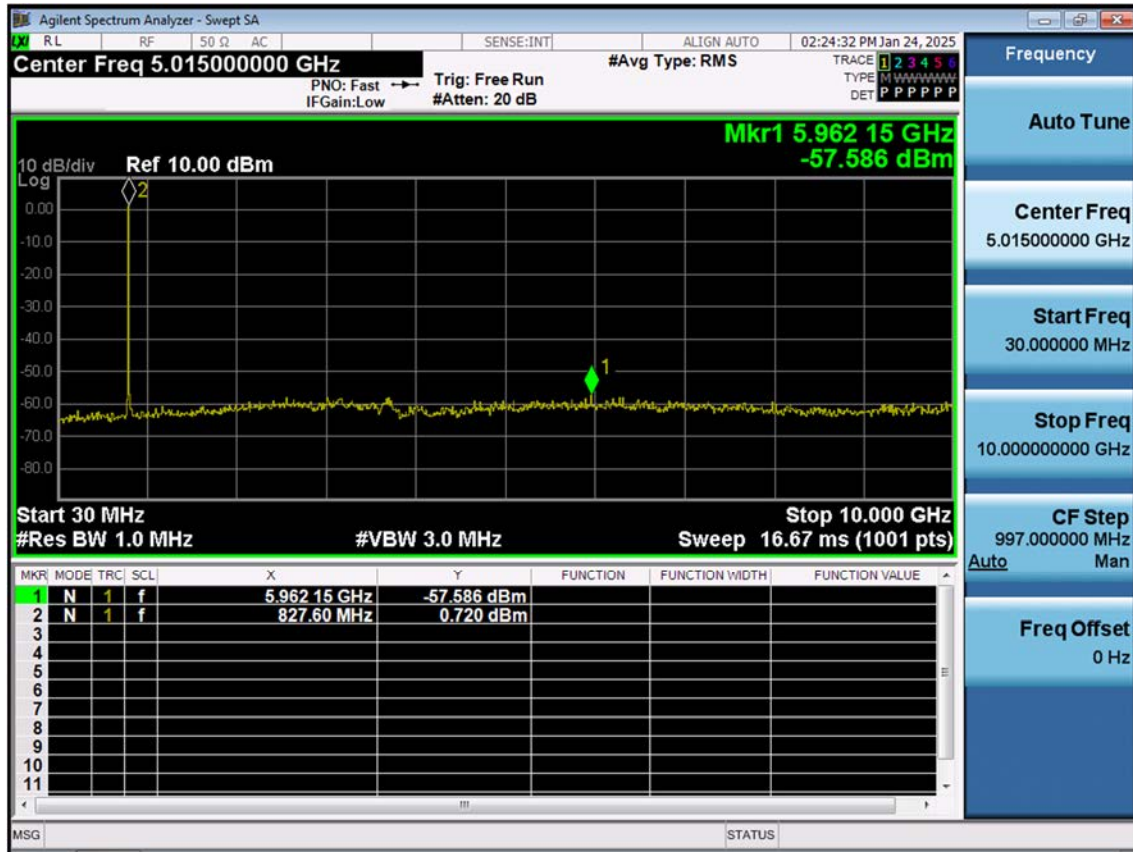
## LTE B5\_10 M\_OBW\_Mid\_64QAM\_FullRB



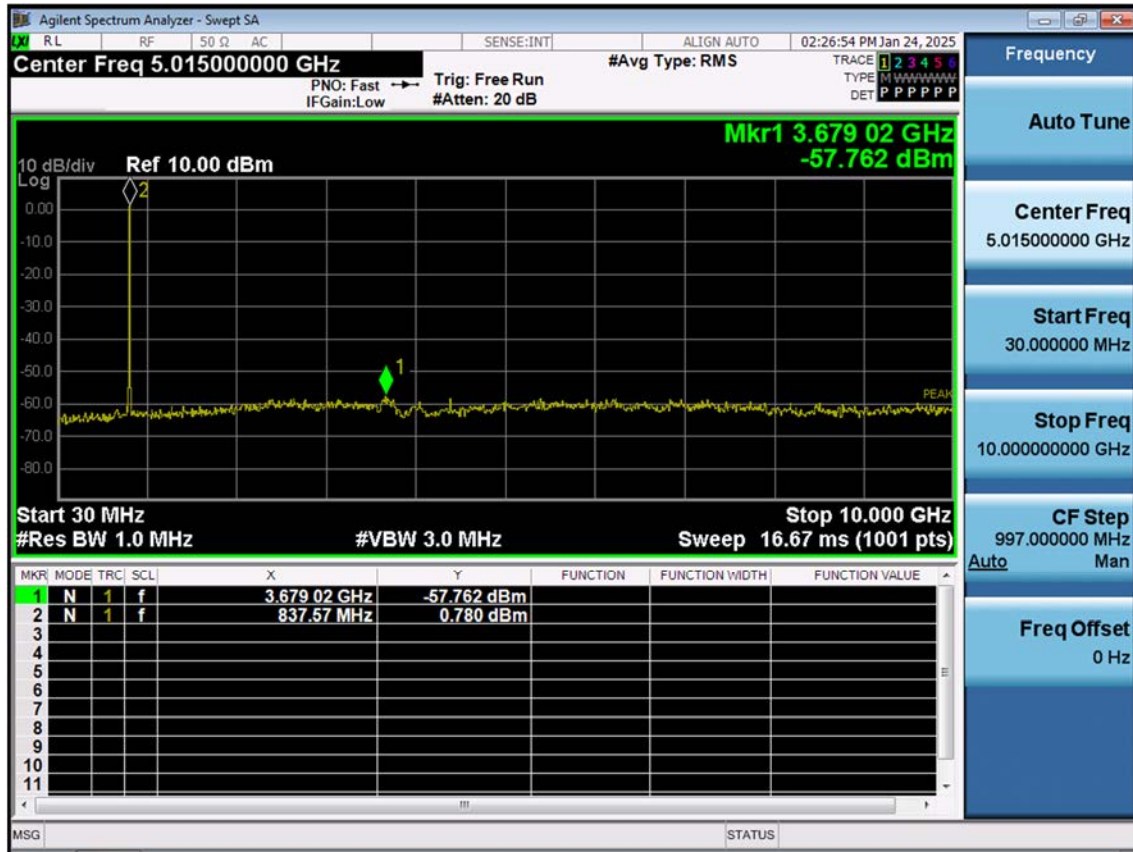
## LTE B5\_10 M\_OBW\_Mid\_256QAM\_FullRB



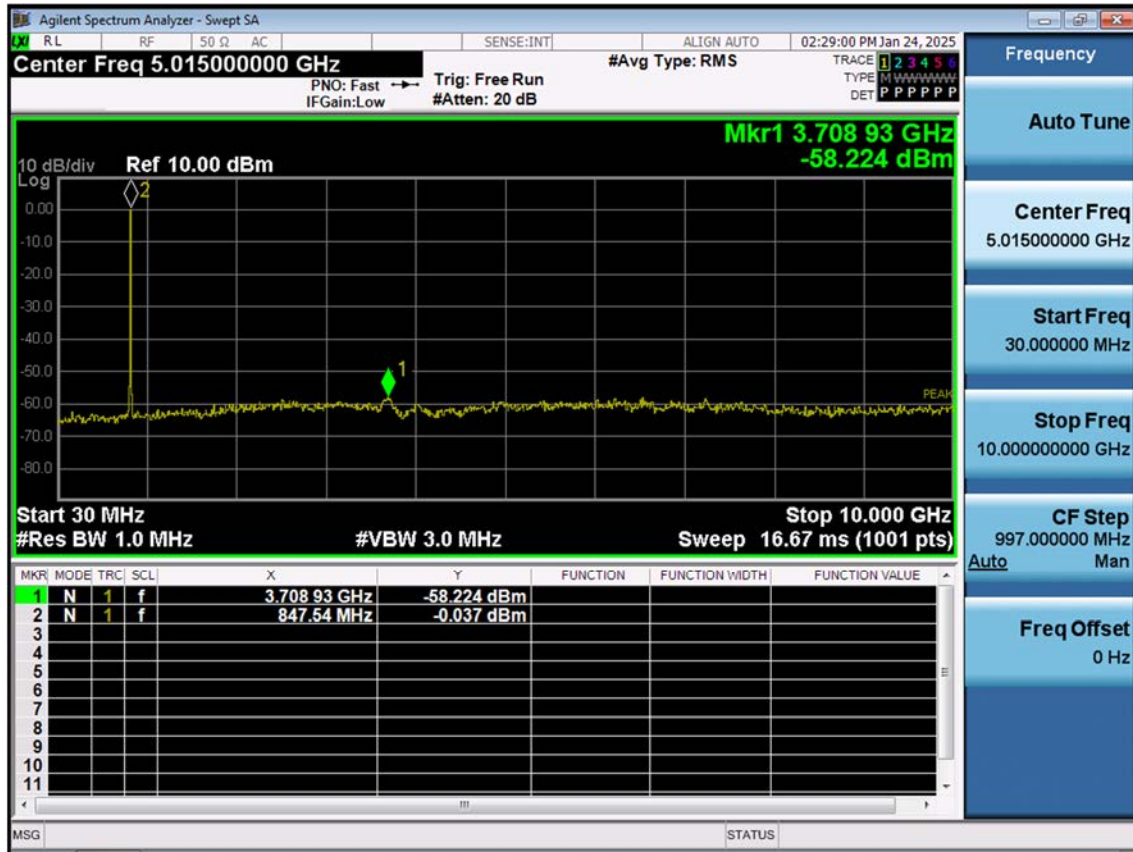
## LTE B5\_1.4M\_Conducted Spurious(30 M-10 G)\_Low\_QPSK\_1RB



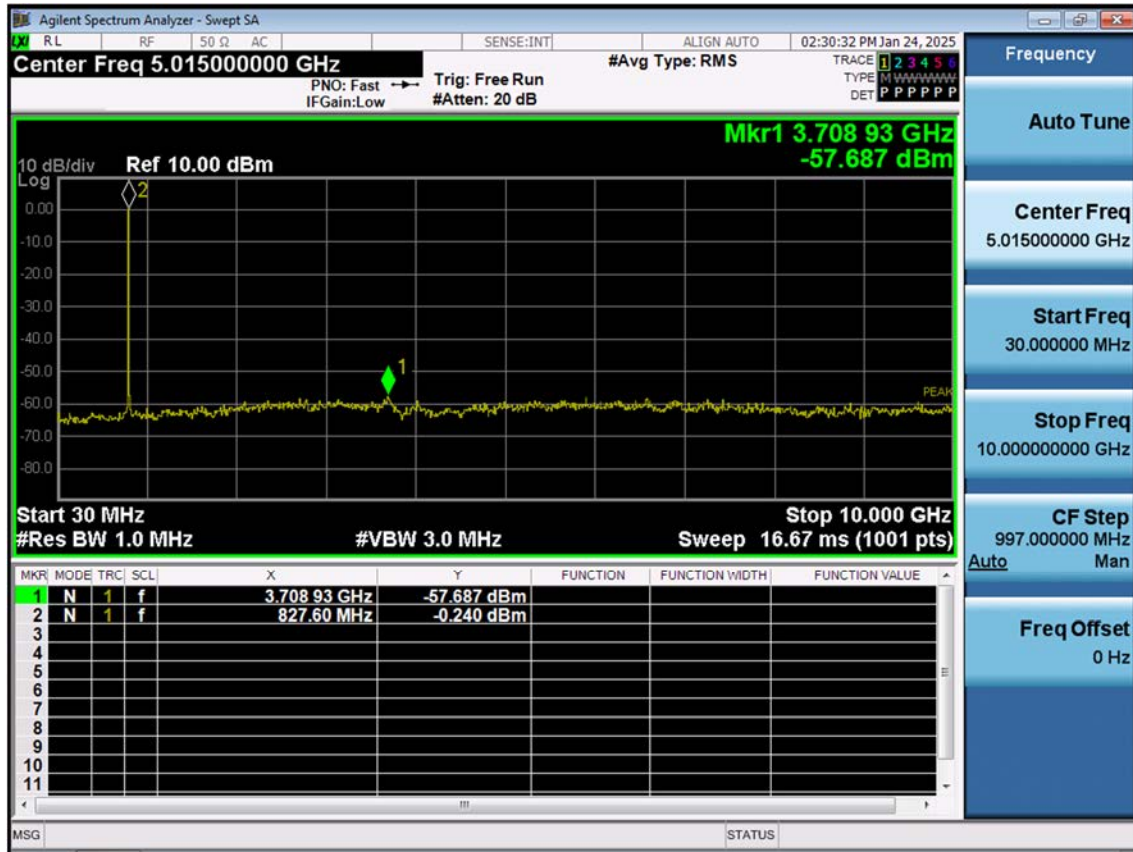
## LTE B5\_1.4M\_Conducted Spurious(30 M-10 G)\_Mid\_QPSK\_1RB



## LTE B5\_1.4M\_Conducted Spurious(30 M-10 G)\_High\_QPSK\_1RB

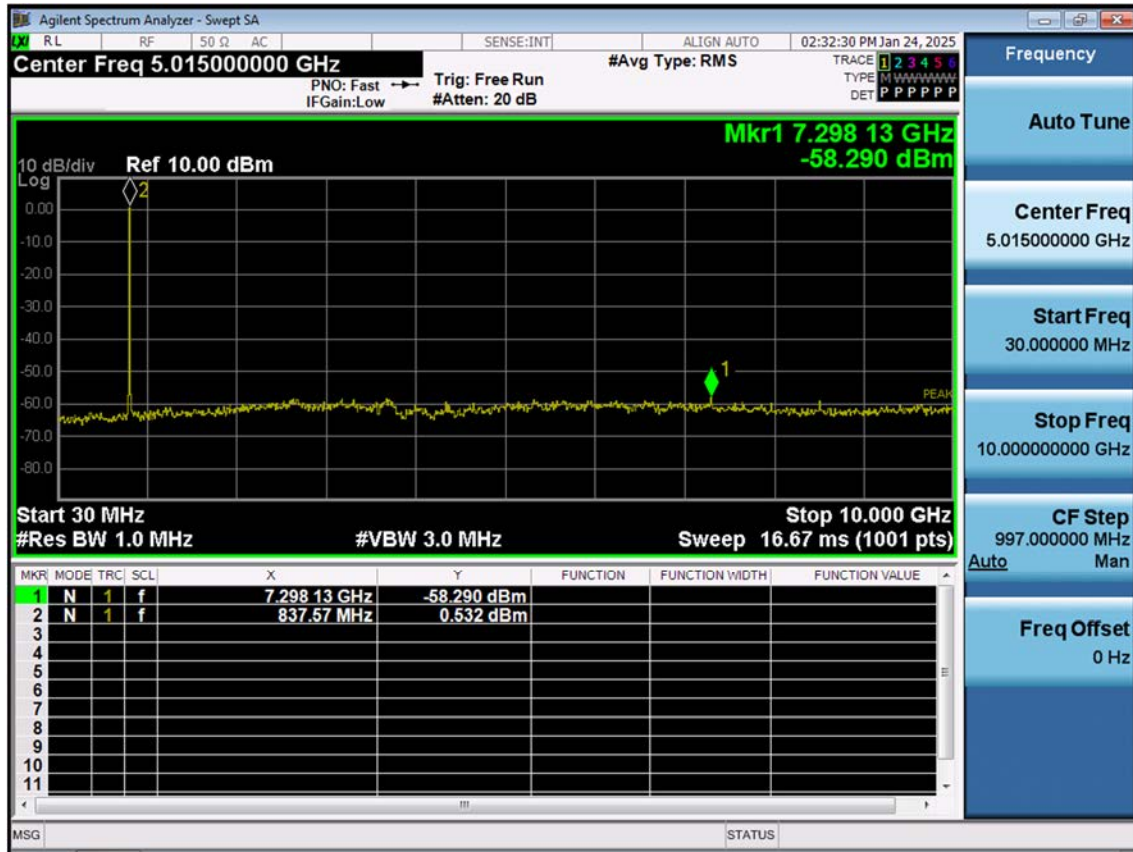


## LTE B5\_3 M\_Conducted Spurious(30 M-10 G)\_Low\_QPSK\_1RB



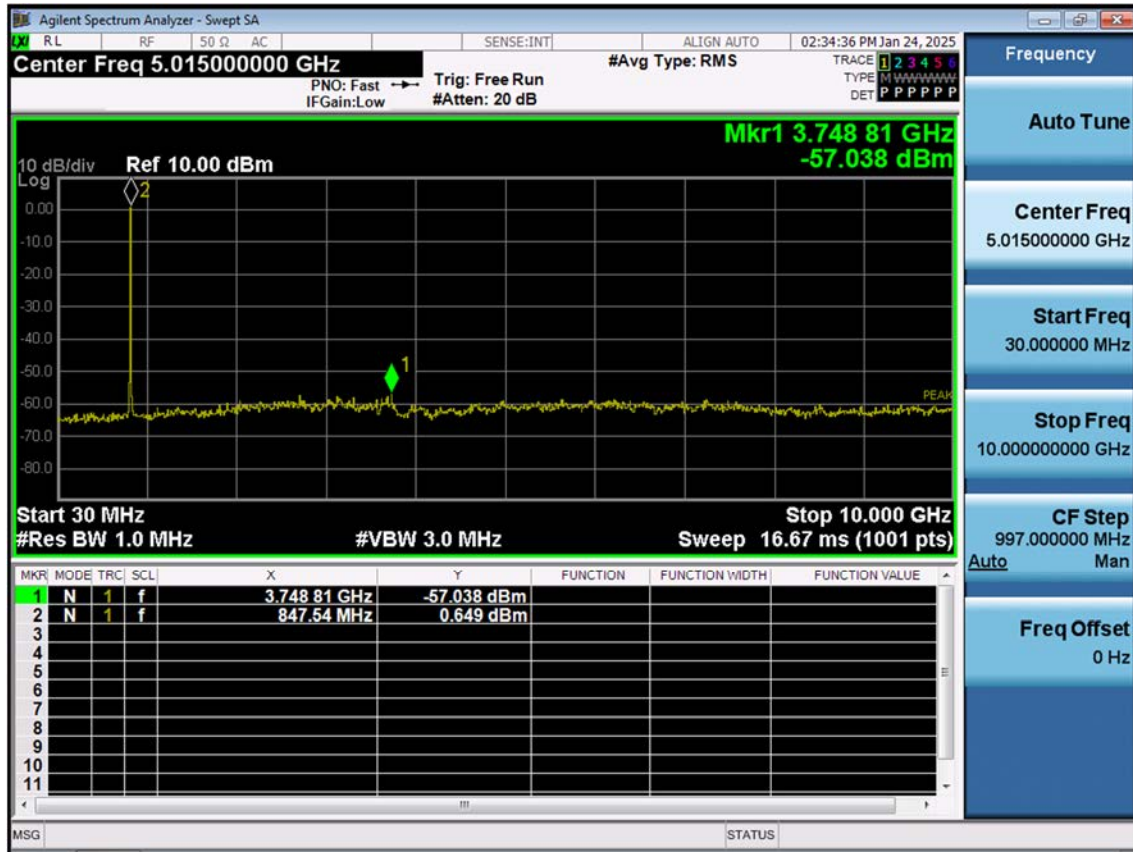


LTE B5\_3 M\_Conducted Spurious(30 M-10 G)\_Mid\_QPSK\_1RB

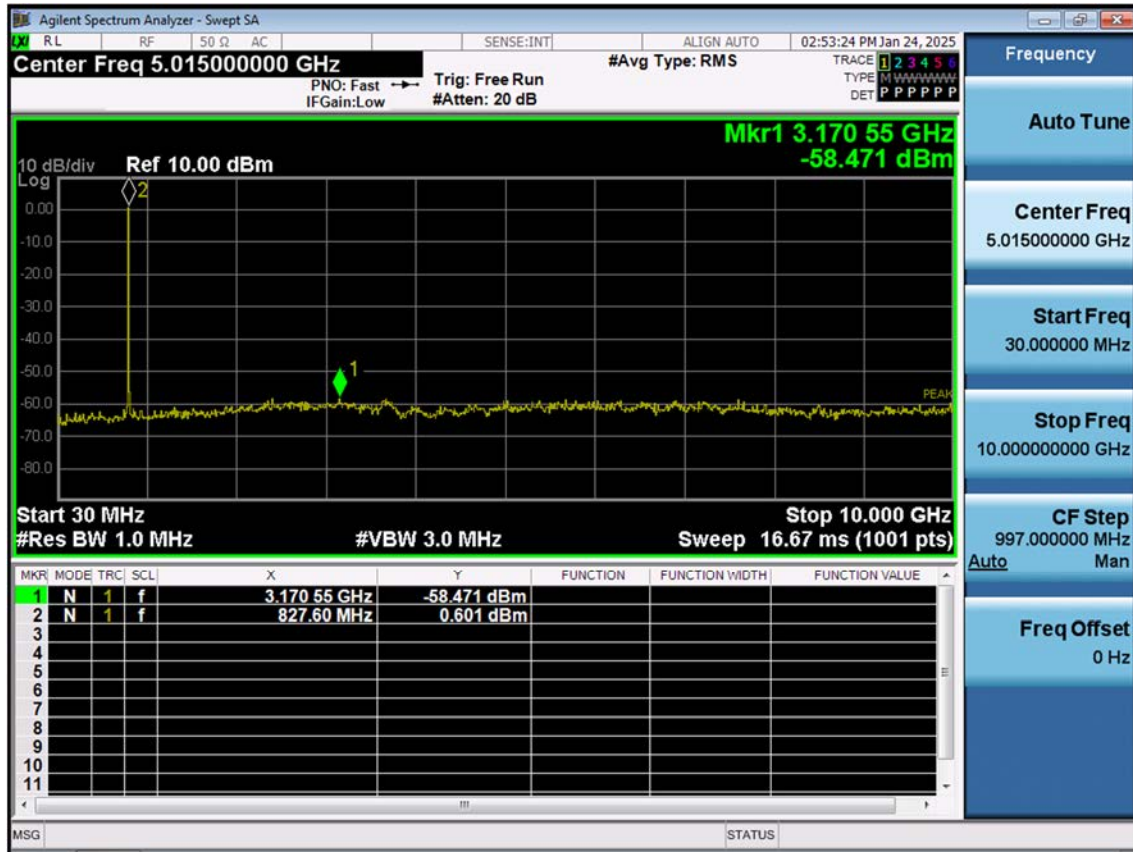




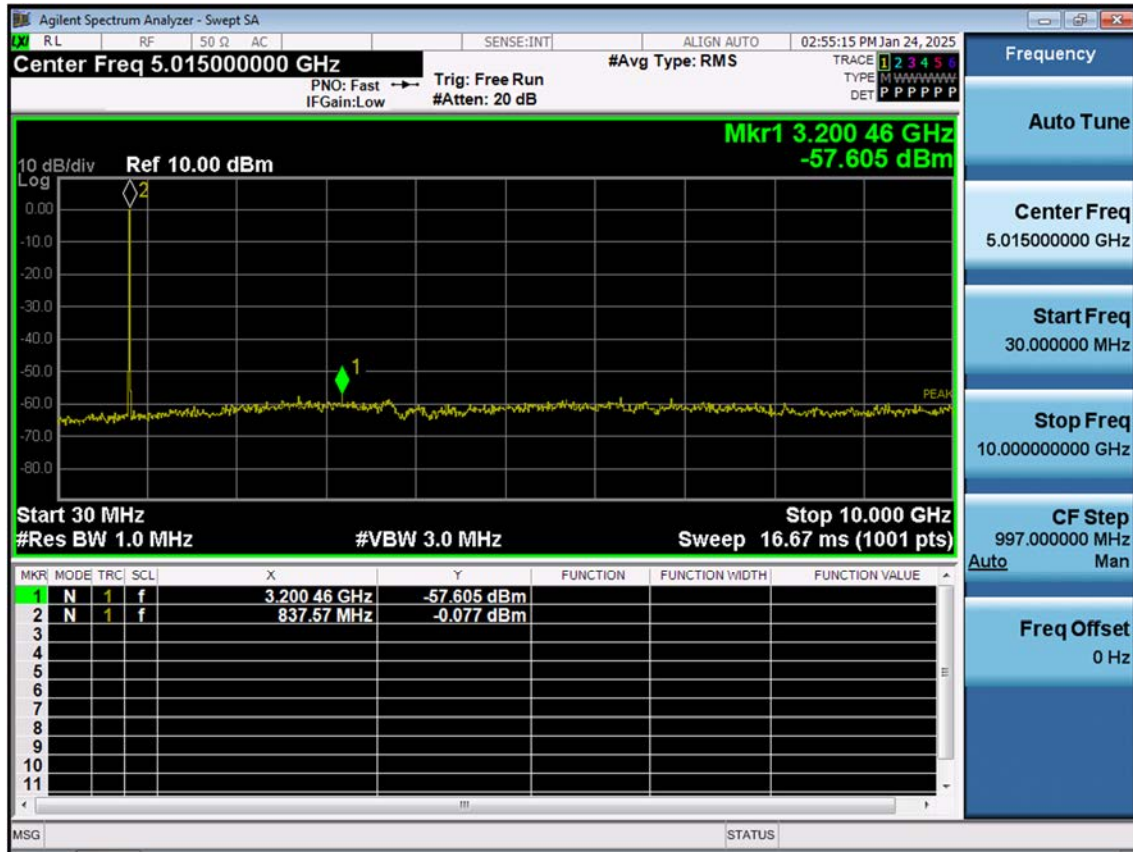
## LTE B5\_3 M\_Conducted Spurious(30 M-10 G)\_High\_QPSK\_1RB



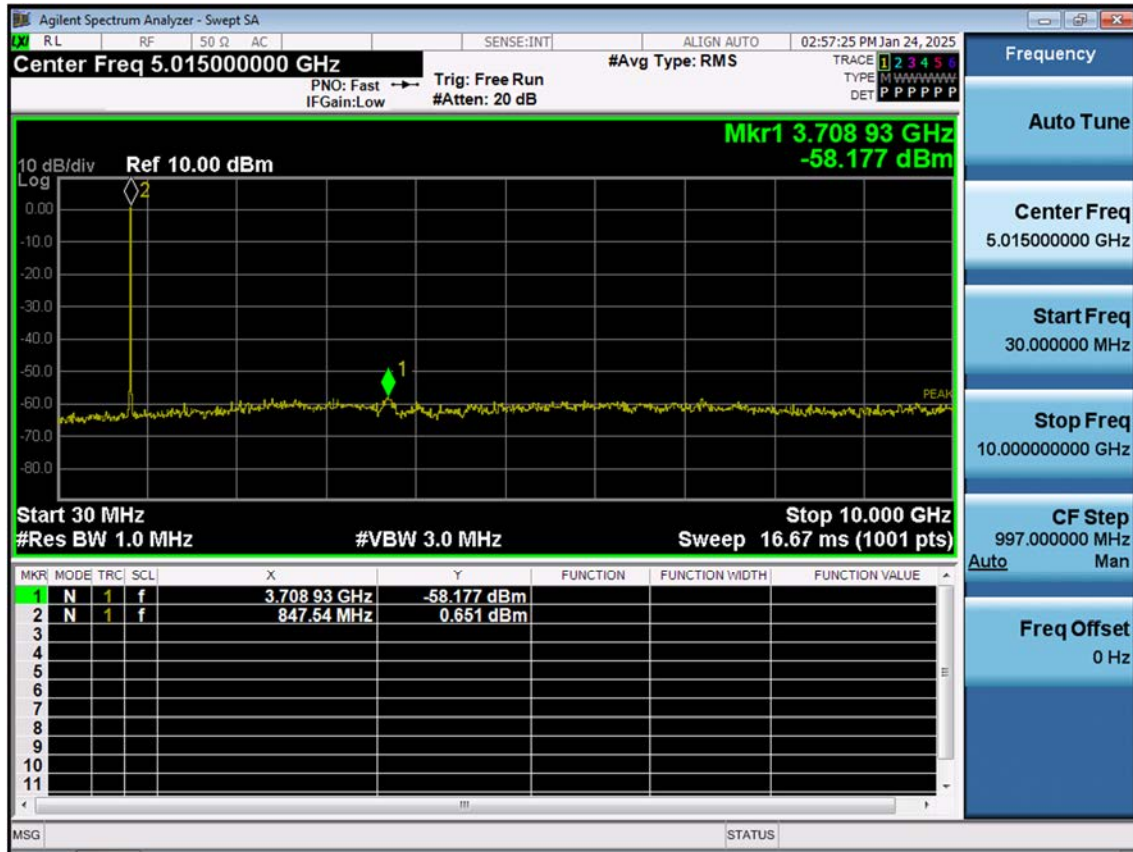
LTE B5\_5 M\_Conducted Spurious(30 M-10 G)\_Low\_QPSK\_1RB



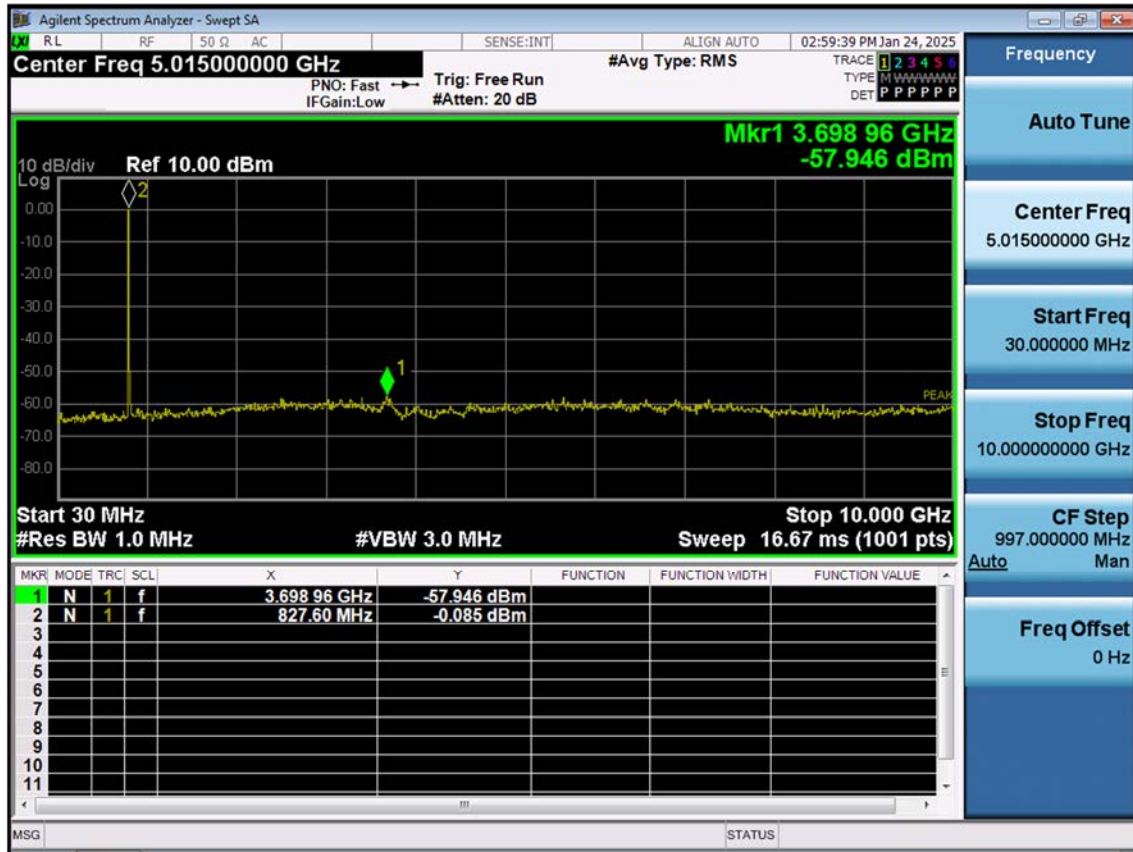
LTE B5\_5 M\_Conducted Spurious(30 M-10 G)\_Mid\_QPSK\_1RB



## LTE B5\_5 M\_Conducted Spurious(30 M-10 G)\_High\_QPSK\_1RB



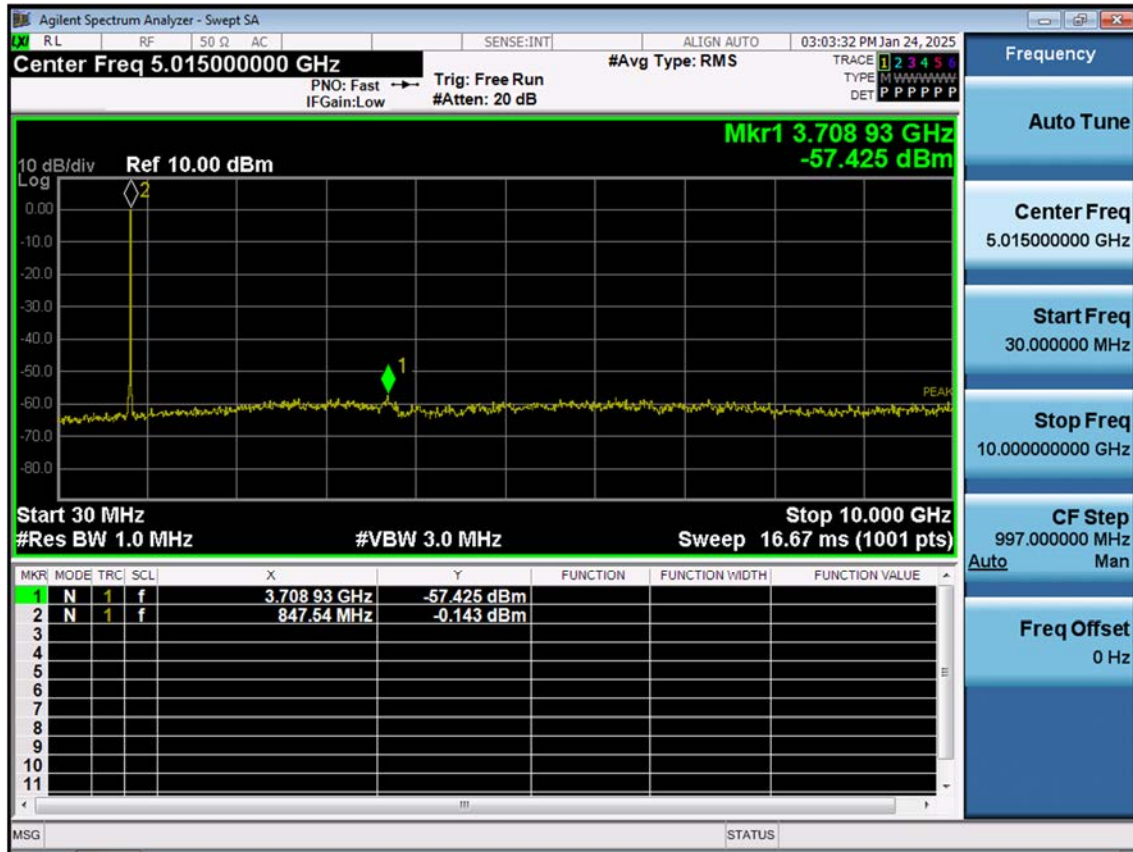
LTE B5\_10 M\_Conducted Spurious(30 M-10 G)\_Low\_QPSK\_1RB



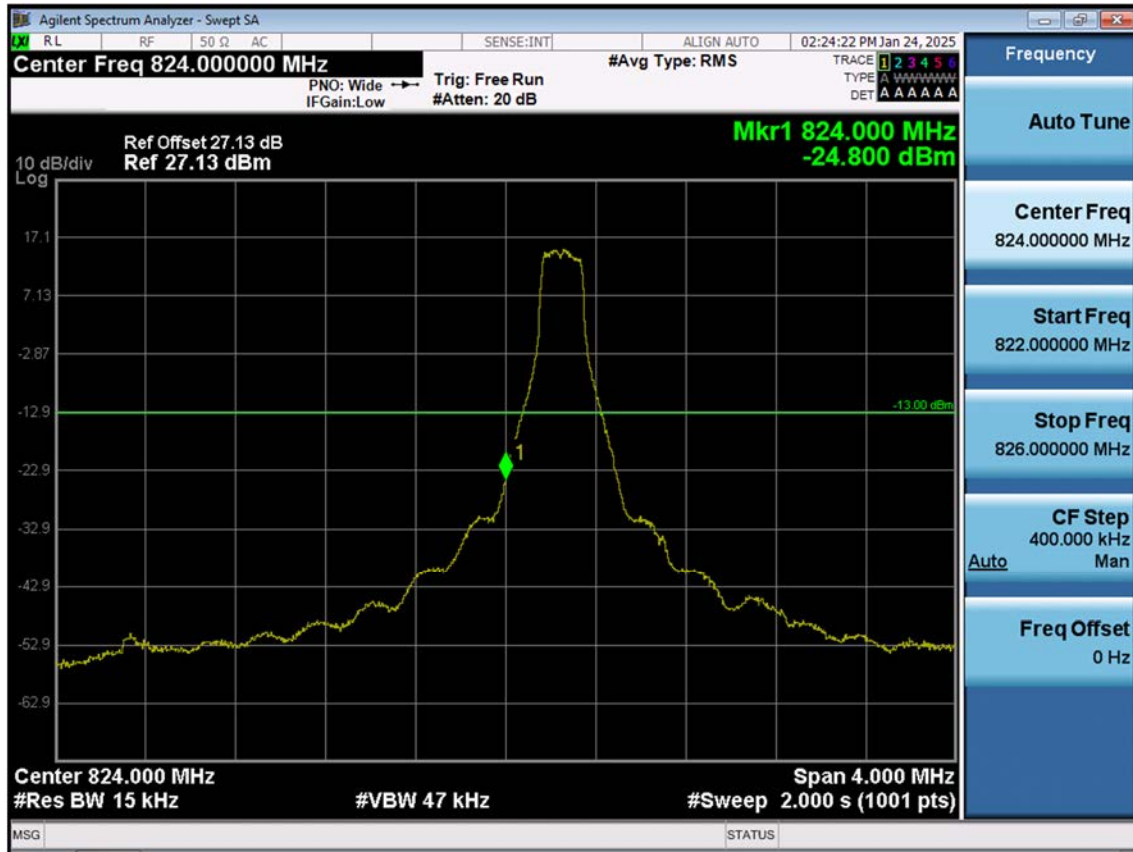
[illegible]



## LTE B5\_10 M\_Conducted Spurious(30 M-10 G)\_High\_QPSK\_1RB

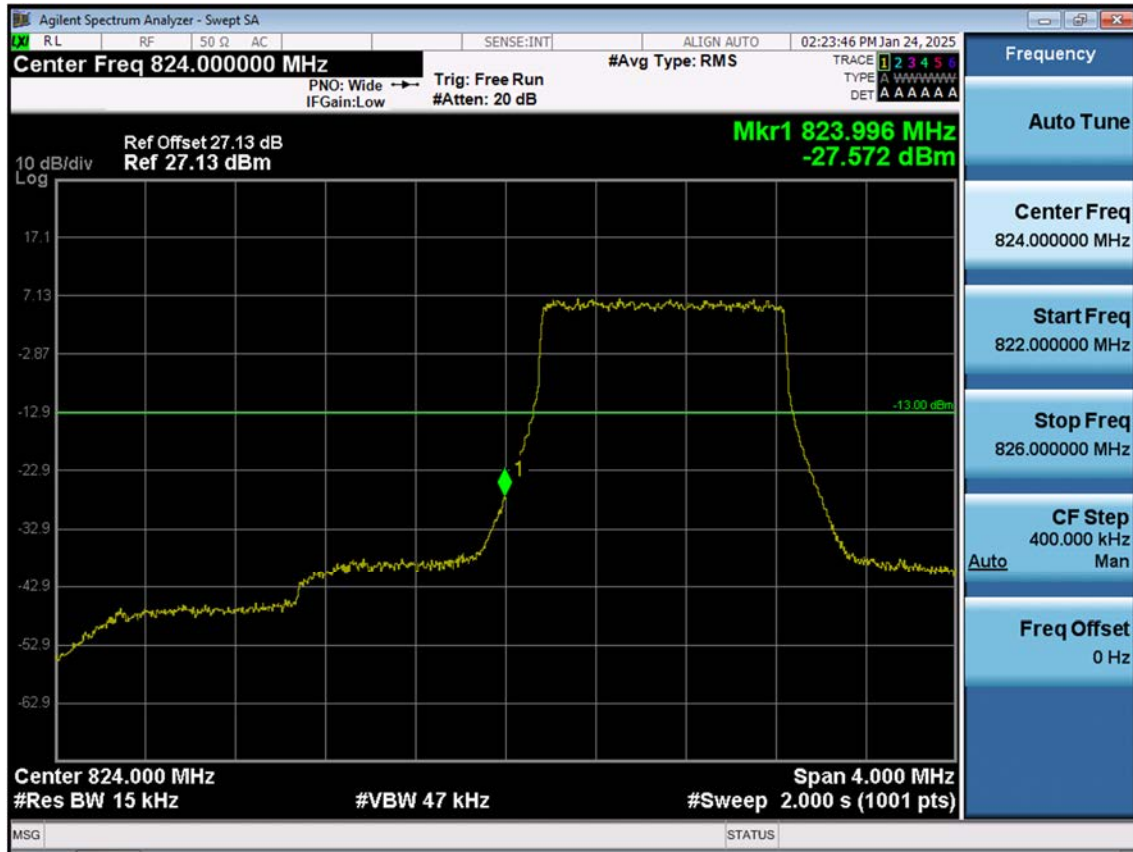


## LTE B5\_1.4M\_Band Edge\_Low\_QPSK\_1RB





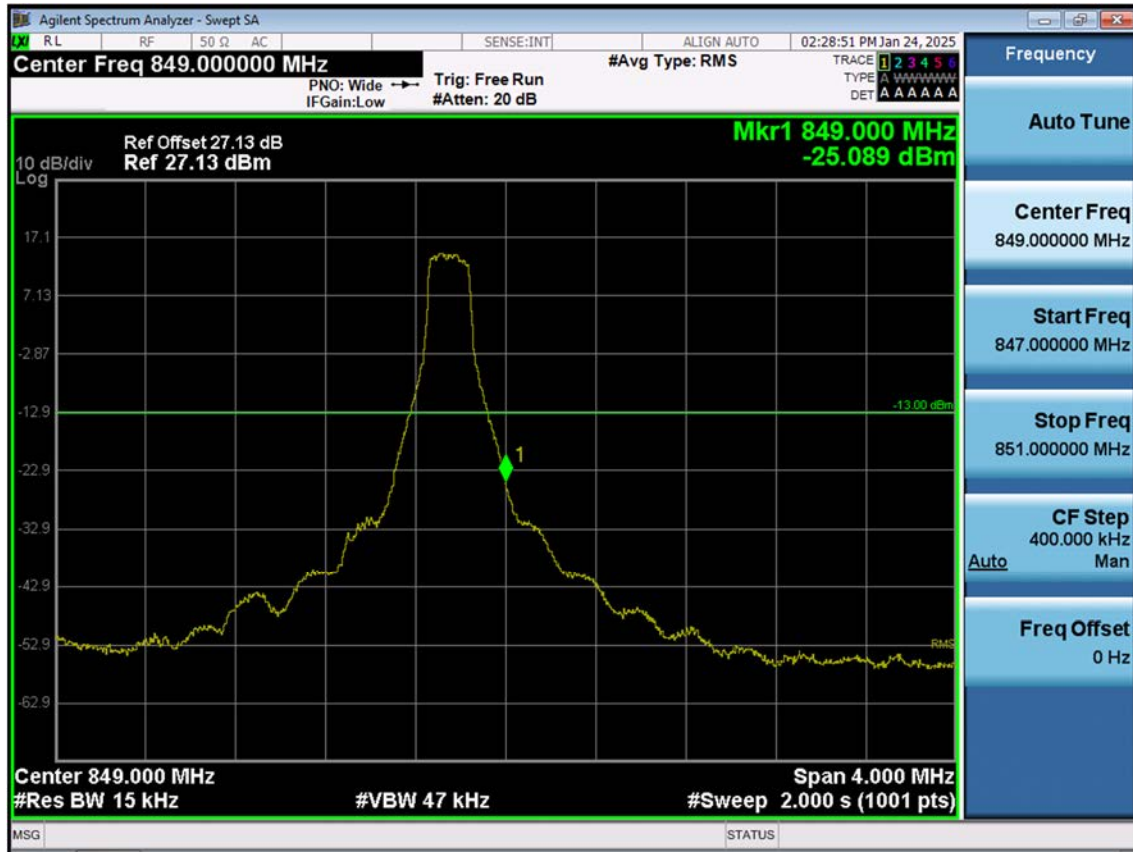
## LTE B5\_1.4M\_Band Edge\_Low\_QPSK\_FullRB



LTE B5\_1.4M\_Extended Band Edge\_Low\_QPSK\_FullRB



## LTE B5\_1.4M\_Band Edge\_High\_QPSK\_1RB



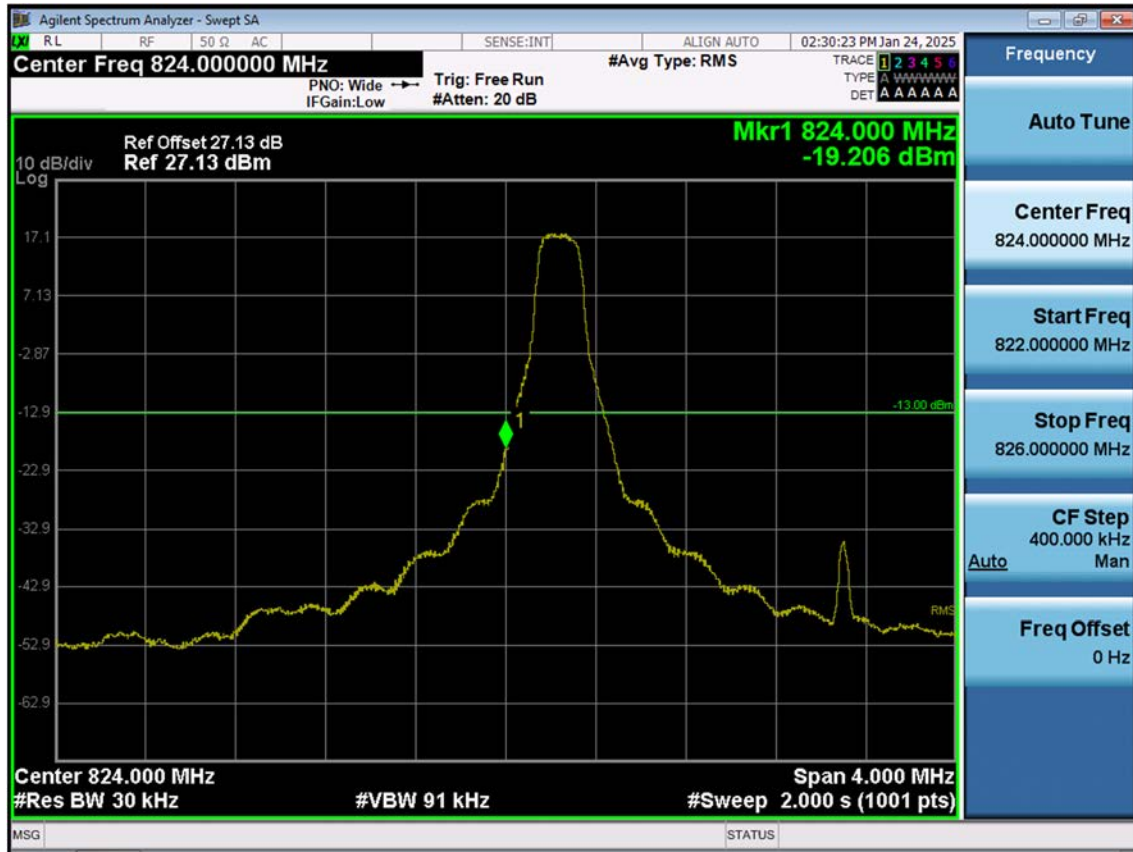
## LTE B5\_1.4M\_Band Edge\_High\_QPSK\_FullRB



## LTE B5\_1.4M\_Extended Band Edge\_High\_QPSK\_FullRB



## LTE B5\_3 M\_Band Edge\_Low\_QPSK\_1RB



## LTE B5\_3 M\_Band Edge\_Low\_QPSK\_FullRB



## LTE B5\_3 M\_Extended Band Edge\_Low\_QPSK\_FullRB





## LTE B5\_3 M\_Band Edge\_High\_QPSK\_1RB



## LTE B5\_3 M\_Band Edge\_High\_QPSK\_FullRB

