

# TEST REPORT

FCC LTE B25(2) Test for SM-P625  
Certification

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

**REPORT NO.**  
HCT-RF-2402-FC006-R1

**DATE OF ISSUE**  
February 20, 2024

**Tested by**  
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**TEST  
REPORT**

**REPORT NO.**  
HCT-RF-2402-FC006-R1

**DATE OF ISSUE**  
February 20, 2024

**Additional Model**  
-

**Applicant** **SAMSUNG Electronics Co., Ltd.**  
129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

**Product Name** Tablet  
**Model Name** SM-P625

**Date of Test** January 19, 2024 ~ February 07, 2024

**FCC ID** A3LSMP625

**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)

**FCC Rule Part(s):** § 24

## REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	February 16, 2024	Initial Release
0	February 20, 2024	Deleted the Additional Model

## 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).

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>	A3LSMP625
<b>Application Type:</b>	Certification
<b>FCC Classification:</b>	PCS Licensed Transmitter (PCB)
<b>FCC Rule Part(s):</b>	§ 24
<b>EUT Type:</b>	Tablet
<b>Model(s):</b>	SM-P625
<b>Additional Model(s)</b>	-
<b>Tx Frequency:</b>	1850.7 MHz – 1914.3 MHz (LTE – Band25/2 (1.4 MHz)) 1851.5 MHz – 1913.5 MHz (LTE – Band25/2 (3 MHz)) 1852.5 MHz – 1912.5 MHz (LTE – Band25/2 (5 MHz)) 1855.0 MHz – 1910.0 MHz (LTE – Band25/2 (10 MHz)) 1857.5 MHz – 1907.5 MHz (LTE – Band25/2 (15 MHz)) 1860.0 MHz – 1905.0 MHz (LTE – Band25/2 (20 MHz))
<b>Date(s) of Tests:</b>	January 19, 2024 ~ February 07, 2024
<b>Serial number:</b>	Radiated : R32WC0037FP Conducted : R32WC003BFW

**1.1. MAXIMUM OUTPUT POWER**

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
LTE – Band25/2 (1.4)	1850.7 - 1914.3	1M10G7D	QPSK	0.395	25.97
		1M10W7D	16QAM	0.333	25.23
		1M10W7D	64QAM	0.267	24.27
		1M10W7D	256QAM	0.128	21.06
LTE – Band25/2 (3)	1851.5 - 1913.5	2M72G7D	QPSK	0.402	26.04
		2M71W7D	16QAM	0.338	25.29
		2M71W7D	64QAM	0.270	24.31
		2M71W7D	256QAM	0.131	21.18
LTE – Band25/2 (5)	1852.5 - 1912.5	4M54G7D	QPSK	0.406	26.08
		4M52W7D	16QAM	0.341	25.33
		4M53W7D	64QAM	0.274	24.38
		4M53W7D	256QAM	0.130	21.14
LTE – Band25/2 (10)	1855.0 - 1910.0	9M02G7D	QPSK	0.395	25.96
		9M00W7D	16QAM	0.335	25.25
		9M02W7D	64QAM	0.265	24.24
		9M01W7D	256QAM	0.128	21.08
LTE – Band25/2 (15)	1857.5 - 1907.5	13M5G7D	QPSK	0.394	25.95
		13M5W7D	16QAM	0.333	25.23
		13M5W7D	64QAM	0.265	24.24
		13M5W7D	256QAM	0.130	21.13
LTE – Band25/2 (20)	1860.0 - 1905.0	18M0G7D	QPSK	0.393	25.94
		18M0W7D	16QAM	0.324	25.11
		18M0W7D	64QAM	0.259	24.13
		18M0W7D	256QAM	0.127	21.05

## 2. INTRODUCTION

### 2.1. DESCRIPTION OF EUT

The EUT was a Mobile Phone with GSM/GPRS/EGPRS/UMTS and LTE. It also supports IEEE 802.11 a/b/g/n/ac (20/40/80 MHz), Bluetooth, BT LE, iPA.

### 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, 17383, Rep. 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
Effective Radiated Power/ Effective Isotropic Radiated Power	- KDB 971168 D01 v03r01 – Section 5.2 & 5.8 - ANSI/TIA-603-E-2016 – Section 2.2.17
Radiated Spurious and Harmonic Emissions	- KDB 971168 D01 v03r01 – Section 6.2 - ANSI/TIA-603-E-2016 – Section 2.2.12



## 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 in accordance with ANSI/TIA-603-E-2016 Clause 2.2.17.

### 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 according to ANSI/TIA-603-E-2016.

#### 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;

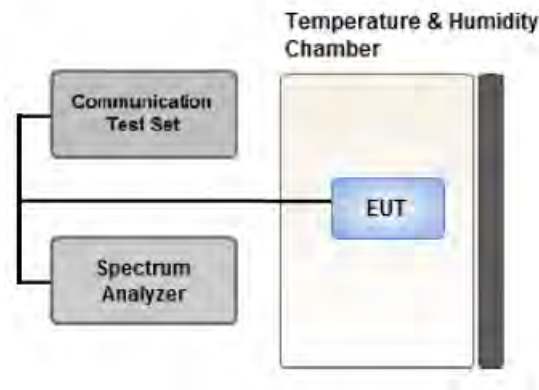
$$\text{Result}_{(dBm)} = P_g_{(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dBi)}$$

Where:  $P_g$  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.

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

### 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)**

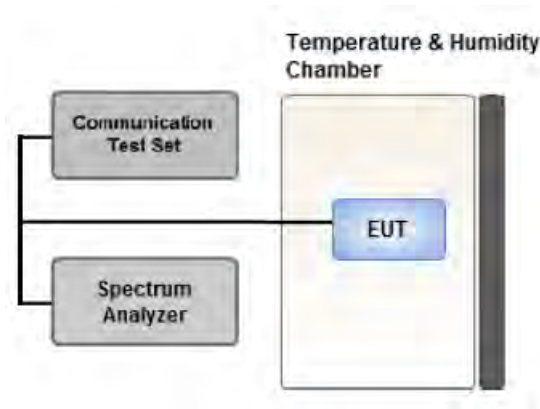
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW  $\geq 3 \times$  RBW.

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  $\geq [10 \times$  (number of points in sweep)  $\times$  (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.

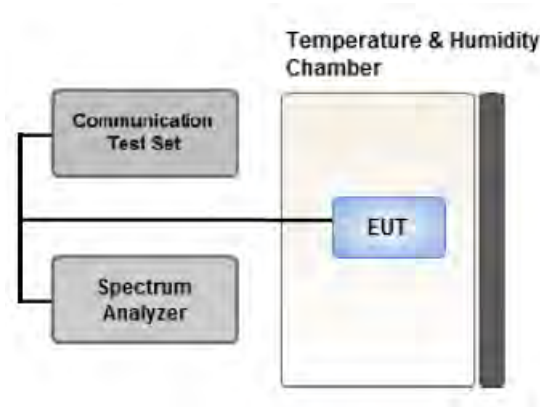
The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

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 x 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

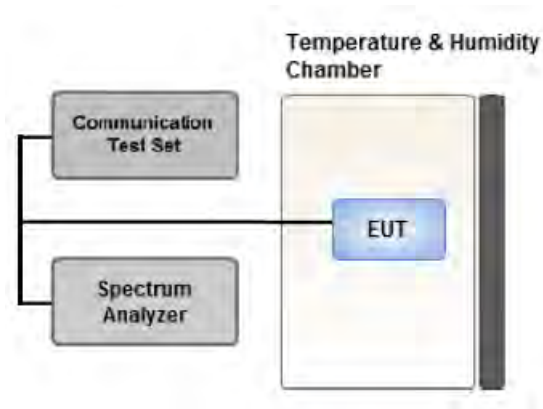
#### Test Overview

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 = RMS
4. Trace Mode = trace average
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.

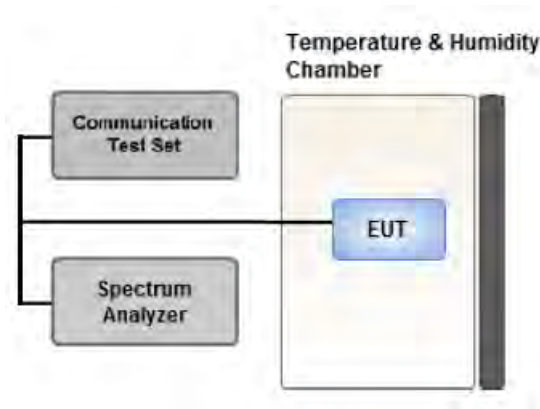
All measurements were done at 2 channels(low and high operational frequency range.)

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.
- In the case of radiated spurious emissions, all bandwidth of operation were investigated and the worst case bandwidth results are reported. (Worst case : 5 MHz)
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.
- Please refer to the table below.
- LTE BAND 25 (1850 – 1915 MHz) overlaps the entire frequency range of LTE BAND 2 (1850 - 1910 MHz) and they have the same Tune-up power.  
Therefore, test data provided in this report covers BAND 2 as well as BAND 25.
- 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
- We were performed the RSE test in condition of co-location.  
Mode : Stand alone, Simultaneous transmission scenarios  
Worst case : Stand alone

[ Worst case ]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset	Axis
Effective Isotropic Radiated Power	QPSK, 16QAM, 64QAM, 256QAM	1.4	Low	1	5	Z
			Mid, High	1	0	
		3	Low	1	14	
			Mid, High	1	0	
		5	Low	1	24	
			Mid, High	1	0	
		10	Low	1	49	
			Mid, High	1	0	
		15	Low	1	74	
			Mid, High	1	0	
		20	Low	1	99	
			Mid, High	1	0	
Radiated Spurious and Harmonic Emissions	QPSK	5	Low	1	24	X
			Mid, High	1	0	

### 3.10 WORST CASE(CONDUCTED TEST)

- All modes of operation were investigated and the worst case configuration results are reported.
- LTE BAND 25 (1850 – 1915 MHz) overlaps the entire frequency range of LTE BAND 2 (1850 - 1910 MHz) and they have the same Tune-up power.

Therefore, test data provided in this report covers BAND 2 as well as BAND 25.

[ Worst case ]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset		
Occupied Bandwidth	QPSK, 16QAM, 64QAM, 256QAM	1.4, 3, 5, 10, 15, 20	Mid	Full RB	0		
Peak-To-Average Ratio	QPSK, 16QAM, 64QAM, 256QAM	1.4, 3, 5, 10, 15, 20	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		
		15	Low	1	0		
			High	1	74		
		20	Low	1	0		
			High	1	99		
				1.4, 3, 5, 10, 15, 20	Low, High	Full RB	0
		Spurious and Harmonic Emissions at Antenna Terminal	QPSK	1.4, 3, 5, 10, 15, 20	Low, Mid, High	1	0

#### 4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
RF Switching System	FBSR-02B(1.2G HPF+LNA)	T&M SYSTEM	F1L1	12/11/2024	Annual
RF Switching System	FBSR-02B(3.3G HPF+LNA)	T&M SYSTEM	F1L2	12/11/2024	Annual
Power Splitter(DC ~ 26.5 GHz)	11667B	Hewlett Packard	5001	04/19/2024	Annual
DC Power Supply	E3632A	Agilent	MY40010147	06/23/2024	Annual
Dipole Antenna	UHAP	Schwarzbeck	557	03/09/2025	Biennial
Dipole Antenna	UHAP	Schwarzbeck	558	03/09/2025	Biennial
Chamber	SU-642	ESPEC	93008124	02/22/2024	Annual
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	147	08/17/2025	Biennial
Horn Antenna(1 ~ 18 GHz)	BBHA 9120D	Schwarzbeck	9120D-1298	09/11/2025	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/29/2024	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/28/2025	Biennial
Signal Analyzer(10 Hz ~ 26.5 GHz)	N9020A	Agilent	MY52090906	04/20/2024	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/19/2024	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	REOHDE & SCHWARZ	100931	08/17/2024	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/10/2024	Annual
Loop Antenna(9 kHz ~ 30 MHz)	FMZB1513	Schwarzbeck	1513-333	03/17/2024	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	895	08/16/2024	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	1135	03/21/2024	Biennial
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262094331	11/17/2024	Annual
Wideband Radio Communication Tester	MT8820C	Anritsu Corp.	6201026545	12/11/2024	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	06/22/2024	Annual
Signal Analyzer(5 Hz ~ 40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/24/2024	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.,	-	-	-

**Note:**

1. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
2. 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 ( $\pm$ dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.98 (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, § 24.238(a)	< 43 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions	PASS
Conducted Output Power	§ 2.1046	N/A	<b><u>See Note1</u></b>
Peak- to- Average Ratio	§ 24.232(d)	< 13 dB	PASS
Frequency stability / variation of ambient temperature	§ 24.235	Emission must remain in band	PASS

**Note:**

1. See SAR Report

### 6.2 Test Condition: Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Equivalent Isotropic Radiated Power	§ 24.232(c)	< 2 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 24.238(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 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP	
								W	W	dBm
1850.7	LTE B25/B2 1.4 MHz	QPSK	-17.31	16.58	10.31	2.30	V	< 2.00	0.288	24.59
		16-QAM	-18.12	15.77	10.31	2.30	V		0.239	23.78
		64-QAM	-19.09	14.80	10.31	2.30	V		0.191	22.81
		256-QAM	-22.22	11.67	10.31	2.30	V		0.093	19.68
1882.5		QPSK	-16.75	17.95	10.35	2.33	V		0.395	25.97
		16-QAM	-17.49	17.21	10.35	2.33	V		0.333	25.23
		64-QAM	-18.45	16.25	10.35	2.33	V		0.267	24.27
		256-QAM	-21.66	13.04	10.35	2.33	V		0.128	21.06
1914.3		QPSK	-17.50	16.60	10.41	2.29	V		0.296	24.72
		16-QAM	-18.25	15.85	10.41	2.29	V		0.249	23.97
		64-QAM	-19.23	14.87	10.41	2.29	V		0.199	22.99
		256-QAM	-22.42	11.68	10.41	2.29	V		0.095	19.80

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP	
								W	W	dBm
1851.5	LTE B25/B2 3 MHz	QPSK	-17.39	16.50	10.31	2.30	V	< 2.00	0.282	24.51
		16-QAM	-18.12	15.77	10.31	2.30	V		0.239	23.78
		64-QAM	-19.09	14.80	10.31	2.30	V		0.191	22.81
		256-QAM	-22.29	11.60	10.31	2.30	V		0.091	19.61
1882.5		QPSK	-16.68	18.02	10.35	2.33	V		0.402	26.04
		16-QAM	-17.43	17.27	10.35	2.33	V		0.338	25.29
		64-QAM	-18.41	16.29	10.35	2.33	V		0.270	24.31
		256-QAM	-21.54	13.16	10.35	2.33	V		0.131	21.18
1913.5		QPSK	-17.22	16.88	10.41	2.29	V		0.316	25.00
		16-QAM	-18.00	16.10	10.41	2.29	V		0.264	24.22
		64-QAM	-18.91	15.19	10.41	2.29	V		0.214	23.31
		256-QAM	-22.11	11.99	10.41	2.29	V		0.103	20.11

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP	
								W	W	dBm
1852.5	LTE B25/B2 5 MHz	QPSK	-17.15	16.74	10.31	2.30	V	< 2.00	0.299	24.75
		16-QAM	-17.92	15.97	10.31	2.30	V		0.250	23.98
		64-QAM	-18.88	15.01	10.31	2.30	V		0.200	23.02
		256-QAM	-22.05	11.84	10.31	2.30	V		0.097	19.85
1882.5		QPSK	-16.64	18.06	10.35	2.33	V		0.406	26.08
		16-QAM	-17.39	17.31	10.35	2.33	V		0.341	25.33
		64-QAM	-18.34	16.36	10.35	2.33	V		0.274	24.38
		256-QAM	-21.58	13.12	10.35	2.33	V		0.130	21.14
1912.5		QPSK	-17.34	16.70	10.40	2.29	V		0.303	24.81
		16-QAM	-18.08	15.95	10.41	2.29	V		0.255	24.07
		64-QAM	-19.03	15.00	10.41	2.29	V		0.205	23.12
		256-QAM	-22.25	11.78	10.41	2.29	V		0.098	19.90

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP	
								W	W	dBm
1855.0	LTE B25/B2 10 MHz	QPSK	-17.33	16.53	10.41	2.29	V	< 2.00	0.292	24.65
		16-QAM	-18.14	15.77	10.32	2.25	V		0.242	23.84
		64-QAM	-19.15	14.76	10.32	2.25	V		0.192	22.83
		256-QAM	-22.31	11.60	10.32	2.25	V		0.093	19.67
1882.5		QPSK	-16.76	17.94	10.35	2.33	V		0.394	25.96
		16-QAM	-17.47	17.23	10.35	2.33	V		0.335	25.25
		64-QAM	-18.48	16.22	10.35	2.33	V		0.265	24.24
		256-QAM	-21.64	13.06	10.35	2.33	V		0.128	21.08
1910.0		QPSK	-17.17	16.86	10.41	2.29	V		0.315	24.98
		16-QAM	-17.93	16.10	10.41	2.29	V		0.264	24.22
		64-QAM	-18.90	15.13	10.41	2.29	V		0.211	23.25
		256-QAM	-22.02	12.01	10.41	2.29	V		0.103	20.13

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP	
								W	W	dBm
1857.5	LTE B25/B2 15 MHz	QPSK	-17.06	16.94	10.32	2.26	V	< 2.00	0.316	25.00
		16-QAM	-17.89	16.11	10.32	2.26	V		0.261	24.17
		64-QAM	-18.86	15.14	10.32	2.26	V		0.209	23.20
		256-QAM	-21.98	12.02	10.32	2.26	V		0.102	20.08
1882.5		QPSK	-16.77	17.93	10.35	2.33	V		0.394	25.95
		16-QAM	-17.49	17.21	10.35	2.33	V		0.333	25.23
		64-QAM	-18.48	16.22	10.35	2.33	V		0.265	24.24
		256-QAM	-21.59	13.11	10.35	2.33	V		0.130	21.13
1907.5		QPSK	-17.46	16.57	10.41	2.29	V		0.294	24.69
		16-QAM	-18.27	15.76	10.41	2.29	V		0.244	23.88
		64-QAM	-19.25	14.78	10.41	2.29	V		0.195	22.90
		256-QAM	-22.33	11.70	10.41	2.29	V		0.096	19.82

Freq (MHz)	Mod/ Bandwidth	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP	
								W	W	dBm
1860.0	LTE B25/B2 20 MHz	QPSK	-16.88	17.12	10.32	2.26	V	< 2.00	0.330	25.18
		16-QAM	-17.73	16.27	10.32	2.26	V		0.271	24.33
		64-QAM	-18.66	15.34	10.32	2.26	V		0.219	23.40
		256-QAM	-21.79	12.21	10.32	2.26	V		0.106	20.27
1882.5		QPSK	-16.78	17.92	10.35	2.33	V		0.393	25.94
		16-QAM	-17.61	17.09	10.35	2.33	V		0.324	25.11
		64-QAM	-18.59	16.11	10.35	2.33	V		0.259	24.13
		256-QAM	-21.67	13.03	10.35	2.33	V		0.127	21.05
1905.0		QPSK	-17.39	16.76	10.39	2.30	V		0.306	24.86
		16-QAM	-18.20	15.95	10.39	2.30	V		0.254	24.05
		64-QAM	-19.26	14.89	10.39	2.30	V		0.199	22.99
		256-QAM	-22.30	11.85	10.39	2.30	V		0.099	19.95

## 8.2 RADIATED SPURIOUS EMISSIONS

▣ OPERATING FREQUENCY:	<u>1882.5 MHz</u>
▣ MEASURED OUTPUT POWER:	<u>26.08 dBm = 0.406 W</u>
▣ MOD:	<u>LTE B25/B2</u>
▣ MODULATION SIGNAL:	<u>5 MHz QPSK</u>
▣ DISTANCE:	<u>3 meters</u>
▣ LIMIT: $43 + 10 \log_{10}(W) =$	<u>39.08 dBc</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	dBc
26065 (1852.5)	3 705.00	-55.10	12.29	-60.15	3.14	H	-51.00	77.08
	5 557.50	-56.33	13.04	-54.71	3.92	V	-45.59	71.67
	7 410.00	-57.25	10.79	-47.24	4.68	V	-41.13	67.21
26365 (1882.5)	3 765.00	-56.34	12.22	-60.87	3.26	H	-51.91	77.99
	5 647.50	-56.07	13.12	-54.12	4.03	H	-45.03	71.11
	7 530.00	-57.77	10.85	-47.06	4.72	H	-40.93	67.01
26665 (1912.5)	3 825.00	-56.00	12.17	-60.48	3.28	H	-51.60	77.68
	5 737.50	-56.77	13.01	-54.35	4.08	V	-45.42	71.50
	7 650.00	-58.92	11.24	-48.53	4.75	H	-42.04	68.12

### 8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data ( dB )
25/2	1.4 MHz	1882.5	QPSK	6	0	5.88
			16-QAM	6	0	6.43
			64-QAM	6	0	6.60
			256-QAM	6	0	6.30
	3 MHz		QPSK	15	0	5.89
			16-QAM	15	0	6.54
			64-QAM	15	0	6.64
			256-QAM	15	0	6.39
	5 MHz		QPSK	25	0	5.85
			16-QAM	25	0	6.59
			64-QAM	25	0	6.62
			256-QAM	25	0	6.39
	10 MHz		QPSK	50	0	5.98
			16-QAM	50	0	6.49
			64-QAM	50	0	6.63
			256-QAM	50	0	6.36
	15 MHz		QPSK	75	0	5.82
			16-QAM	75	0	6.49
			64-QAM	75	0	6.61
			256-QAM	75	0	6.35
20 MHz	QPSK	100	0	5.80		
	16-QAM	100	0	6.51		
	64-QAM	100	0	6.55		
	256-QAM	100	0	6.41		

**Note:**

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 111 ~ 134.

#### 8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data ( MHz )
25/2	1.4 MHz	1882.5	QPSK	6	0	1.0955
			16-QAM	6	0	1.0969
			64-QAM	6	0	1.0998
			256-QAM	6	0	1.0991
	3 MHz		QPSK	15	0	2.7190
			16-QAM	15	0	2.7132
			64-QAM	15	0	2.7109
			256-QAM	15	0	2.7142
	5 MHz		QPSK	25	0	4.5388
			16-QAM	25	0	4.5213
			64-QAM	25	0	4.5344
			256-QAM	25	0	4.5305
	10 MHz		QPSK	50	0	9.0180
			16-QAM	50	0	8.9998
			64-QAM	50	0	9.0175
			256-QAM	50	0	9.0055
	15 MHz		QPSK	75	0	13.531
			16-QAM	75	0	13.485
			64-QAM	75	0	13.502
			256-QAM	75	0	13.481
20 MHz	QPSK	100	0	17.993		
	16-QAM	100	0	17.984		
	64-QAM	100	0	17.984		
	256-QAM	100	0	17.954		

**Note:**

1. Plots of the EUT's Occupied Bandwidth are shown Page 87 ~ 110.

### 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)
25/2	1.4	3.6790	3.7114	27.976	-67.105	-39.129	-13.00
		3.6790	3.7059	27.976	-67.158	-39.182	
		3.6780	3.7354	27.976	-67.230	-39.254	
	3	3.6815	3.6980	27.976	-66.475	-38.499	
		3.7114	3.7089	27.976	-67.220	-39.244	
		3.6885	3.7034	27.976	-67.014	-39.038	
	5	3.7194	3.6960	27.976	-66.999	-39.023	
		3.7114	3.6945	27.976	-67.183	-39.207	
		3.6850	3.7079	27.976	-67.154	-39.178	
	10	3.7189	3.6890	27.976	-66.952	-38.976	
		3.7044	3.6870	27.976	-66.911	-38.935	
		3.6785	3.7099	27.976	-67.126	-39.150	
	15	3.6910	3.6875	27.976	-67.149	-39.173	
		3.7039	3.6975	27.976	-67.038	-39.062	
		3.7044	3.7089	27.976	-67.090	-39.114	
	20	3.7169	3.7059	27.976	-66.944	-38.968	
		3.7124	3.6780	27.976	-67.266	-39.290	
		3.7005	3.7029	27.976	-67.301	-39.325	

**Note:**

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 135 ~ 170.
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 + Ext. 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

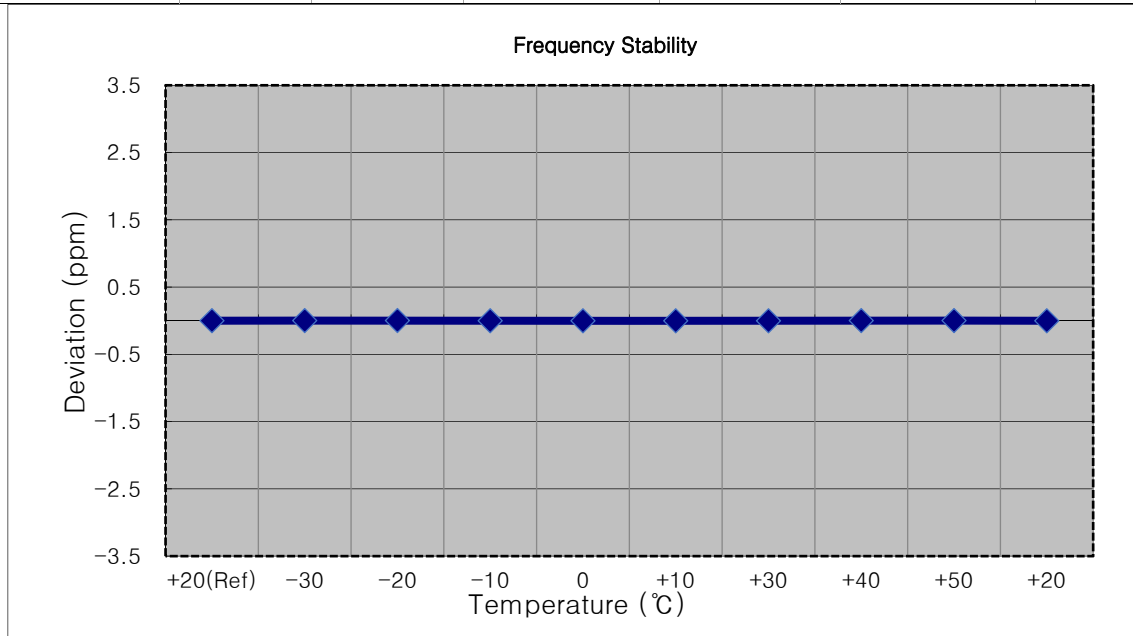
### 8.6 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 51 ~ 86.

### 8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1850,700,000 Hz
- ▣ CHANNEL: 26047 (1.4 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

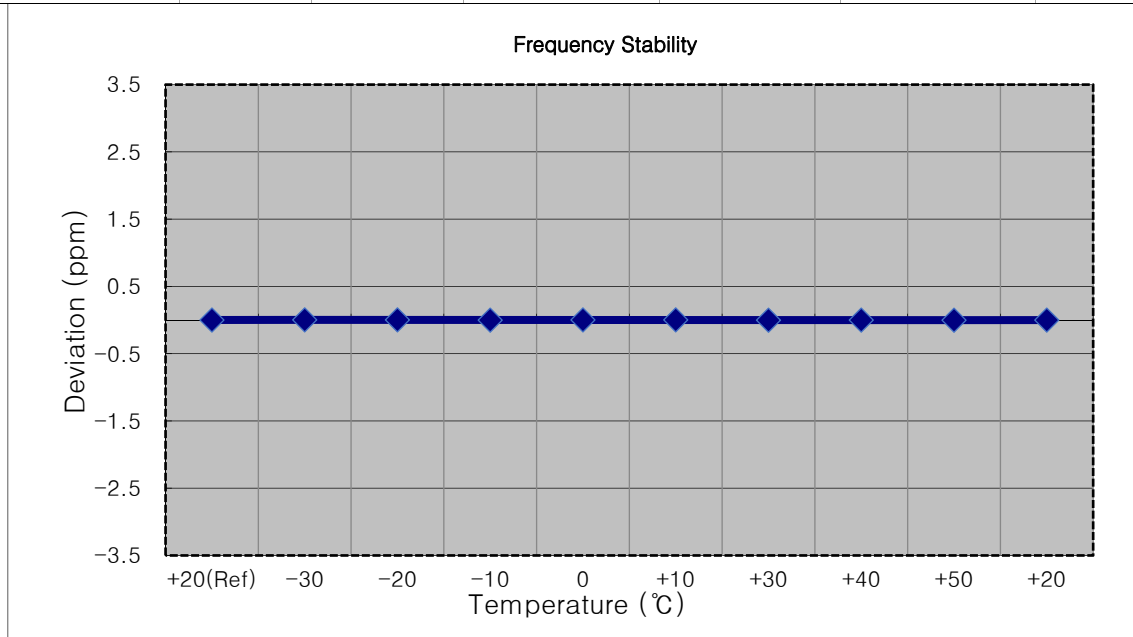
Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1850 700 003	0.0	0.000 000	0.000
100 %		-30	1850 700 006	2.7	0.000 000	0.001
100 %		-20	1850 700 008	4.9	0.000 000	0.003
100 %		-10	1850 700 002	-1.8	0.000 000	-0.001
100 %		0	1850 700 001	-2.5	0.000 000	-0.001
100 %		+10	1850 700 001	-2.4	0.000 000	-0.001
100 %		+30	1850 700 001	-2.5	0.000 000	-0.001
100 %		+40	1850 700 006	2.9	0.000 000	0.002
100 %		+50	1850 700 006	2.4	0.000 000	0.001
Batt. Endpoint		3.400	+20	1850 700 001	-2.3	0.000 000





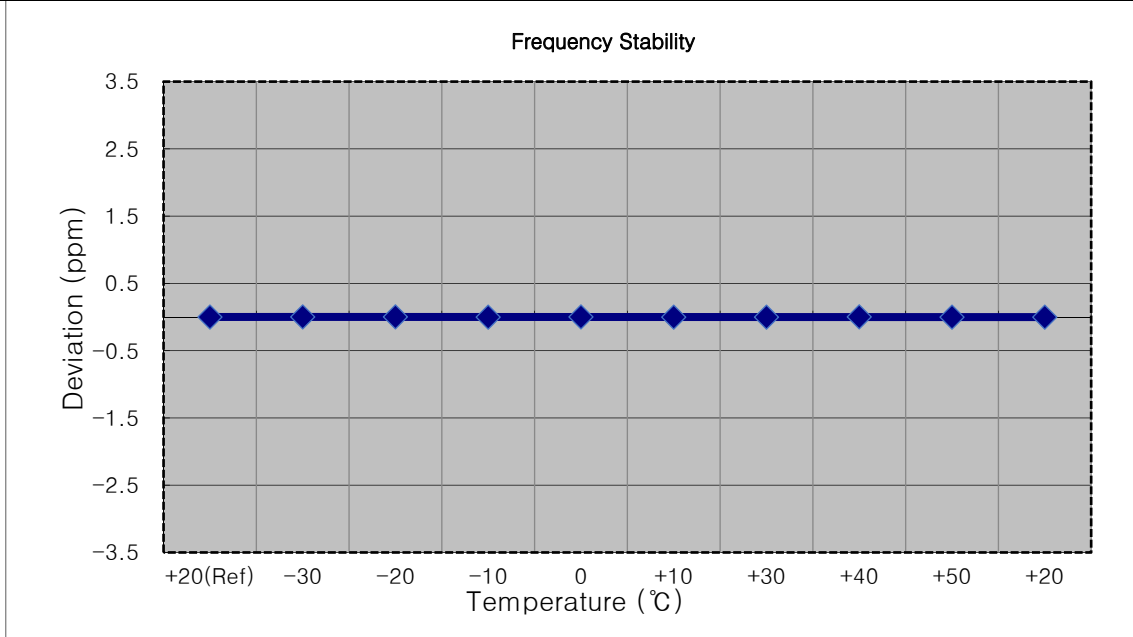
- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1851,500,000 Hz
- ▣ CHANNEL: 26055 (3 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1851 500 004	0.0	0.000 000	0.000
100 %		-30	1851 500 008	4.0	0.000 000	0.002
100 %		-20	1851 500 008	4.0	0.000 000	0.002
100 %		-10	1851 500 001	-2.5	0.000 000	-0.001
100 %		0	1851 500 006	2.4	0.000 000	0.001
100 %		+10	1851 500 008	4.3	0.000 000	0.002
100 %		+30	1851 499 999	-4.7	0.000 000	-0.003
100 %		+40	1851 500 002	-2.0	0.000 000	-0.001
100 %		+50	1851 499 999	-4.1	0.000 000	-0.002
Batt. Endpoint		3.400	+20	1851 500 001	-2.1	0.000 000



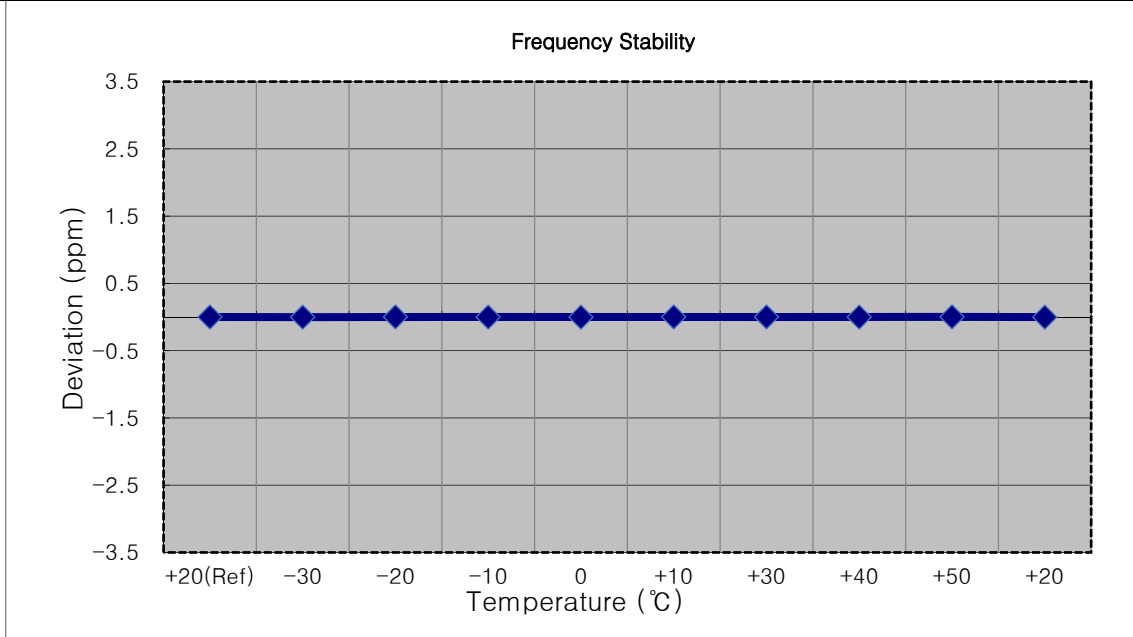
- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1852,500,000 Hz
- ▣ CHANNEL: 26065 (5 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1852 499 997	0.0	0.000 000	0.000
100 %		-30	1852 499 999	2.4	0.000 000	0.001
100 %		-20	1852 500 001	4.2	0.000 000	0.002
100 %		-10	1852 499 994	-2.6	0.000 000	-0.001
100 %		0	1852 500 000	3.4	0.000 000	0.002
100 %		+10	1852 499 994	-2.6	0.000 000	-0.001
100 %		+30	1852 499 994	-3.1	0.000 000	-0.002
100 %		+40	1852 500 001	4.1	0.000 000	0.002
100 %		+50	1852 499 994	-2.9	0.000 000	-0.002
Batt. Endpoint		3.400	+20	1852 499 994	-2.7	0.000 000



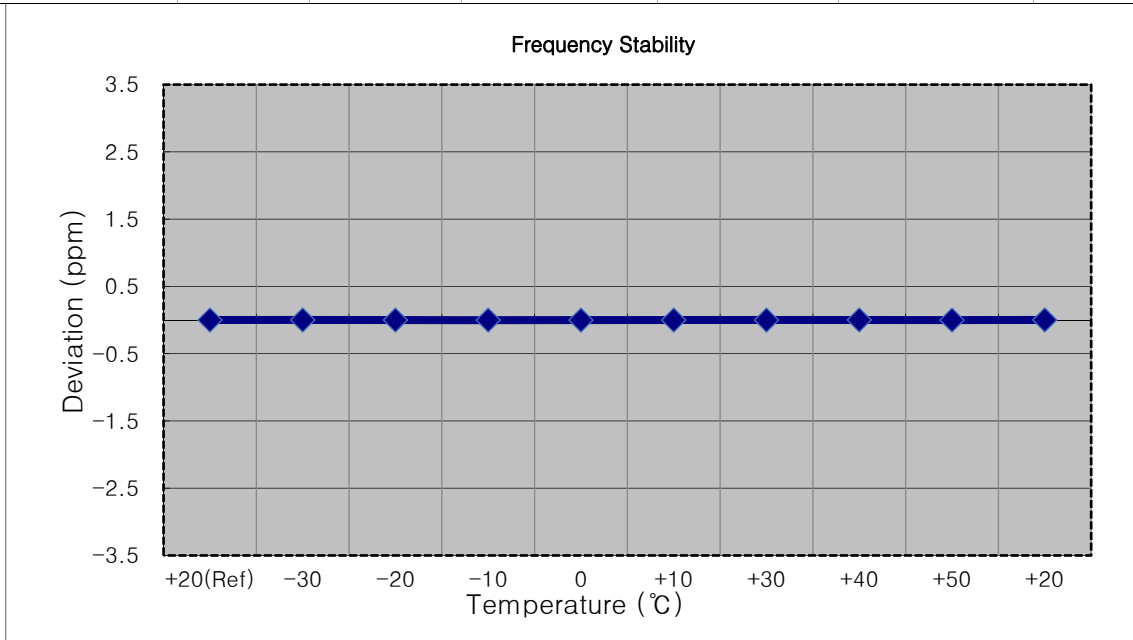
- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1855,000,000 Hz
- ▣ CHANNEL: 26090 (10 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1854 999 995	0.0	0.000 000	0.000
100 %		-30	1854 999 992	-3.7	0.000 000	-0.002
100 %		-20	1854 999 999	3.4	0.000 000	0.002
100 %		-10	1854 999 993	-2.3	0.000 000	-0.001
100 %		0	1854 999 992	-3.1	0.000 000	-0.002
100 %		+10	1854 999 998	2.9	0.000 000	0.002
100 %		+30	1854 999 998	2.5	0.000 000	0.001
100 %		+40	1854 999 993	-2.3	0.000 000	-0.001
100 %		+50	1854 999 999	3.8	0.000 000	0.002
Batt. Endpoint		3.400	+20	1854 999 993	-2.7	0.000 000



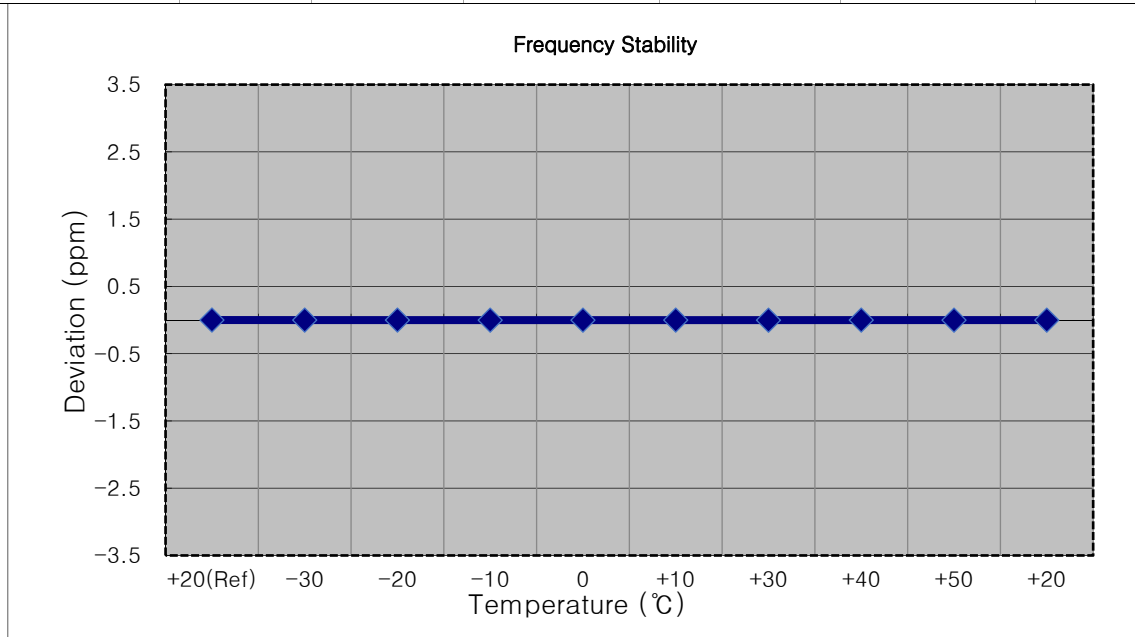
- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1857,500,000 Hz
- ▣ CHANNEL: 26115 (15 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1857 500 005	0.0	0.000 000	0.000
100 %		-30	1857 500 006	1.6	0.000 000	0.001
100 %		-20	1857 500 003	-1.8	0.000 000	-0.001
100 %		-10	1857 500 003	-1.8	0.000 000	-0.001
100 %		0	1857 500 002	-2.9	0.000 000	-0.002
100 %		+10	1857 500 003	-1.6	0.000 000	-0.001
100 %		+30	1857 500 003	-1.6	0.000 000	-0.001
100 %		+40	1857 500 007	2.8	0.000 000	0.002
100 %		+50	1857 500 002	-2.2	0.000 000	-0.001
Batt. Endpoint		3.400	+20	1857 500 007	2.8	0.000 000



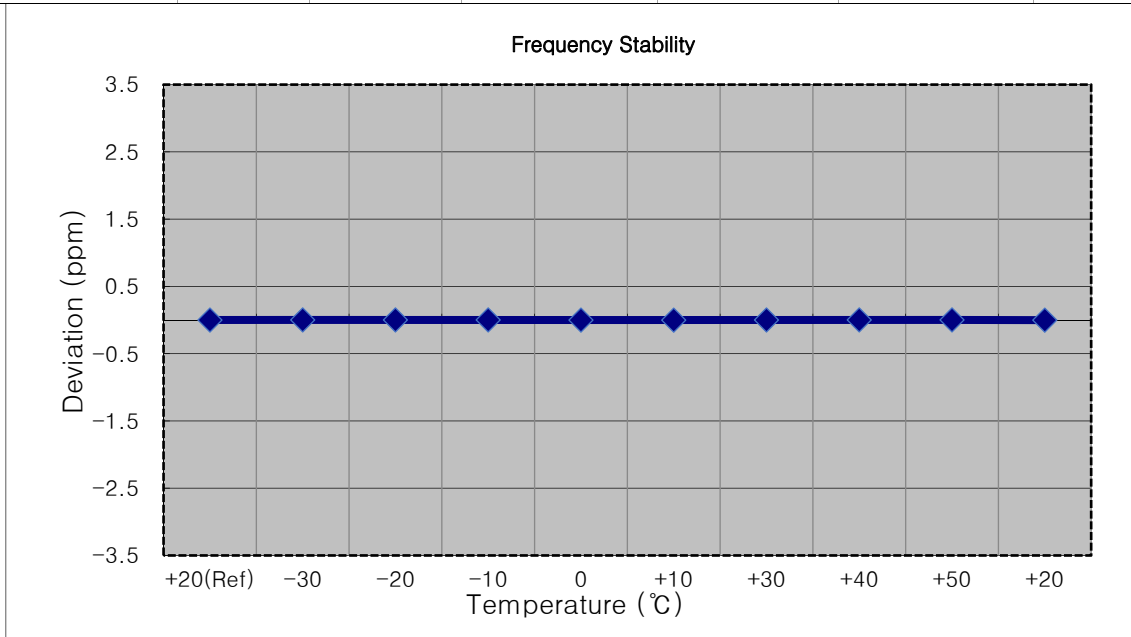
- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1860,000,000 Hz
- ▣ CHANNEL: 26140 (20 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1860 000 002	0.0	0.000 000	0.000
100 %		-30	1860 000 000	-1.7	0.000 000	-0.001
100 %		-20	1860 000 000	-2.0	0.000 000	-0.001
100 %		-10	1859 999 999	-2.6	0.000 000	-0.001
100 %		0	1859 999 998	-3.4	0.000 000	-0.002
100 %		+10	1859 999 999	-2.2	0.000 000	-0.001
100 %		+30	1859 999 997	-4.5	0.000 000	-0.002
100 %		+40	1860 000 000	-1.8	0.000 000	-0.001
100 %		+50	1859 999 998	-3.1	0.000 000	-0.002
Batt. Endpoint		3.400	+20	1859 999 999	-2.9	0.000 000



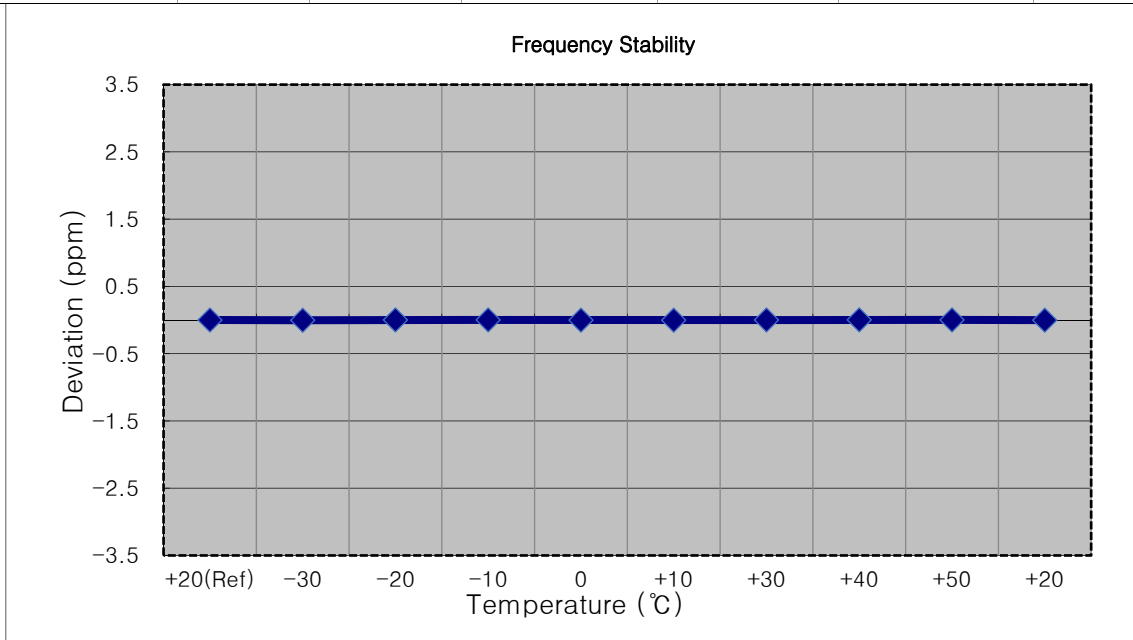
- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1882,500,000 Hz
- ▣ CHANNEL: 26365 (1.4 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1882 500 003	0.0	0.000 000	0.000
100 %		-30	1882 500 006	2.6	0.000 000	0.001
100 %		-20	1882 500 006	2.3	0.000 000	0.001
100 %		-10	1882 500 007	3.2	0.000 000	0.002
100 %		0	1882 500 001	-2.0	0.000 000	-0.001
100 %		+10	1882 500 001	-2.6	0.000 000	-0.001
100 %		+30	1882 500 005	1.9	0.000 000	0.001
100 %		+40	1882 500 006	2.9	0.000 000	0.002
100 %		+50	1882 500 006	2.4	0.000 000	0.001
Batt. Endpoint		3.400	+20	1882 500 001	-2.7	0.000 000



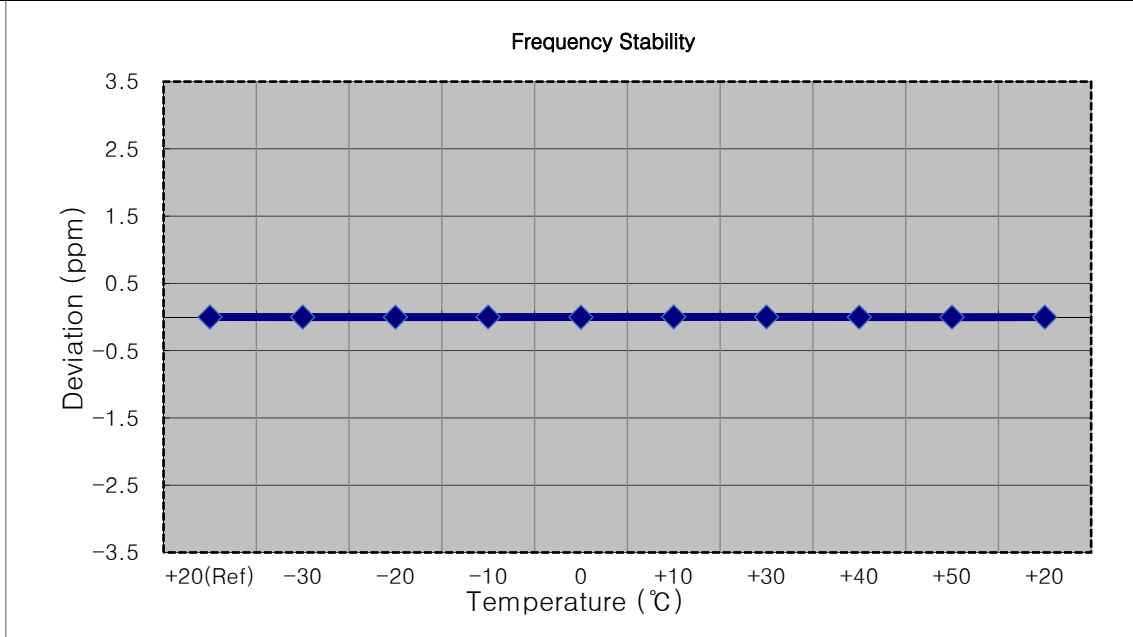
- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1882,500,000 Hz
- ▣ CHANNEL: 26365 (3 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1882 499 996	0.0	0.000 000	0.000
100 %		-30	1882 499 990	-5.7	0.000 000	-0.003
100 %		-20	1882 499 999	3.0	0.000 000	0.002
100 %		-10	1882 499 998	2.6	0.000 000	0.001
100 %		0	1882 499 993	-2.8	0.000 000	-0.001
100 %		+10	1882 499 991	-4.7	0.000 000	-0.002
100 %		+30	1882 499 998	1.9	0.000 000	0.001
100 %		+40	1882 500 000	4.5	0.000 000	0.002
100 %		+50	1882 499 999	3.0	0.000 000	0.002
Batt. Endpoint		3.400	+20	1882 499 991	-4.5	0.000 000



- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1882,500,000 Hz
- ▣ CHANNEL: 26365 (5 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

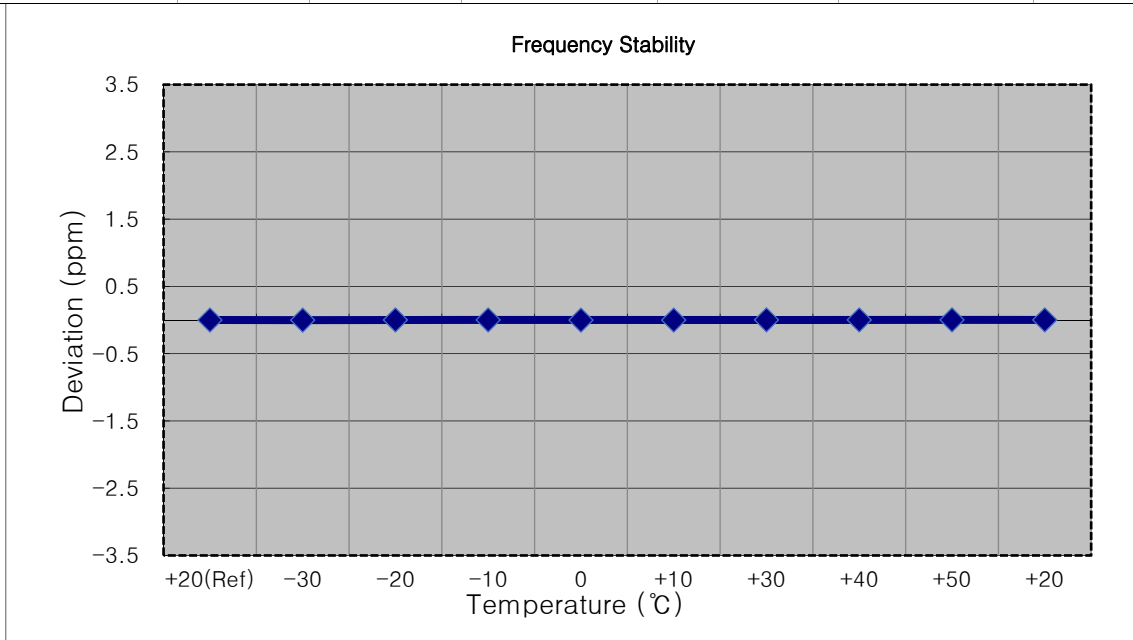
Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1882 500 005	0.0	0.000 000	0.000
100 %		-30	1882 500 003	-2.0	0.000 000	-0.001
100 %		-20	1882 500 002	-3.3	0.000 000	-0.002
100 %		-10	1882 500 007	1.7	0.000 000	0.001
100 %		0	1882 500 001	-4.1	0.000 000	-0.002
100 %		+10	1882 500 008	3.1	0.000 000	0.002
100 %		+30	1882 500 009	3.5	0.000 000	0.002
100 %		+40	1882 500 002	-2.8	0.000 000	-0.001
100 %		+50	1882 500 001	-4.4	0.000 000	-0.002
Batt. Endpoint		3.400	+20	1882 500 002	-2.8	0.000 000





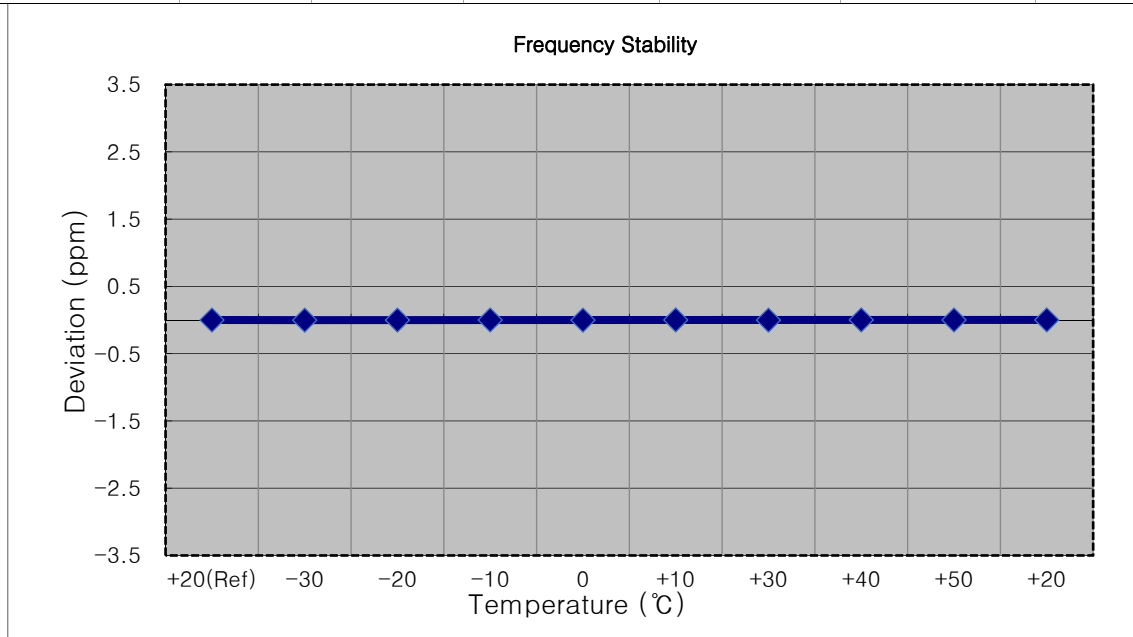
- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1882,500,000 Hz
- ▣ CHANNEL: 26365 (10 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1882 499 995	0.0	0.000 000	0.000
100 %		-30	1882 499 992	-3.1	0.000 000	-0.002
100 %		-20	1882 499 998	3.0	0.000 000	0.002
100 %		-10	1882 499 998	3.1	0.000 000	0.002
100 %		0	1882 499 993	-2.7	0.000 000	-0.001
100 %		+10	1882 499 993	-2.3	0.000 000	-0.001
100 %		+30	1882 499 999	3.7	0.000 000	0.002
100 %		+40	1882 499 998	3.1	0.000 000	0.002
100 %		+50	1882 500 000	4.2	0.000 000	0.002
Batt. Endpoint		3.400	+20	1882 499 998	2.7	0.000 000



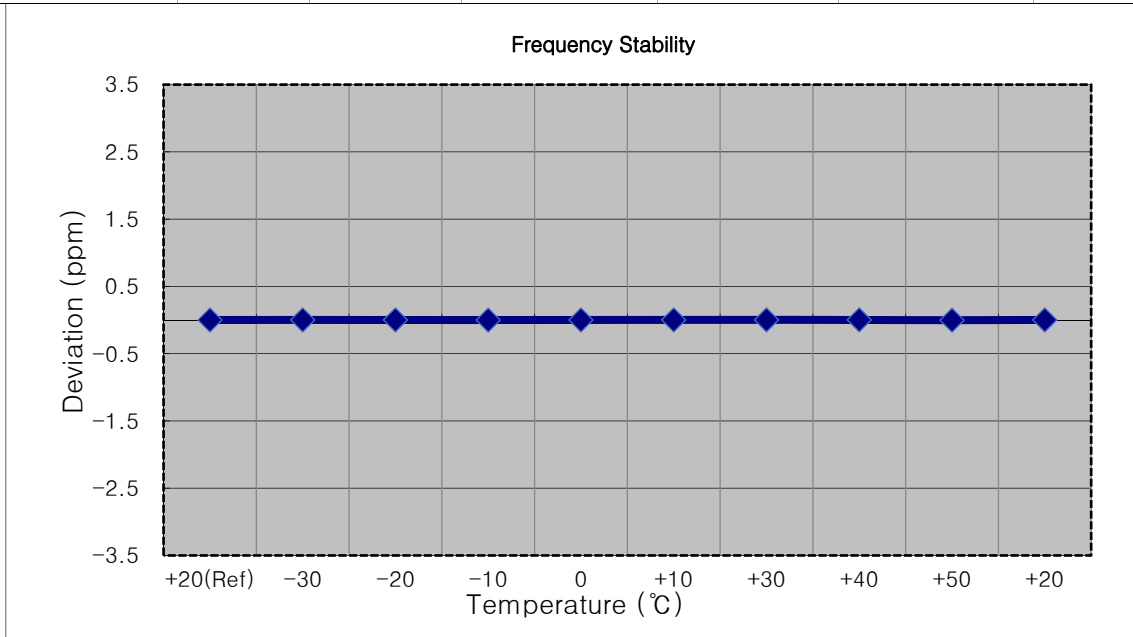
- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1882,500,000 Hz
- ▣ CHANNEL: 26365 (15 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1882 499 997	0.0	0.000 000	0.000
100 %		-30	1882 499 994	-3.4	0.000 000	-0.002
100 %		-20	1882 499 995	-2.3	0.000 000	-0.001
100 %		-10	1882 499 999	1.5	0.000 000	0.001
100 %		0	1882 499 995	-2.5	0.000 000	-0.001
100 %		+10	1882 499 999	2.2	0.000 000	0.001
100 %		+30	1882 499 994	-3.7	0.000 000	-0.002
100 %		+40	1882 500 000	2.5	0.000 000	0.001
100 %		+50	1882 499 999	1.9	0.000 000	0.001
Batt. Endpoint		3.400	+20	1882 500 000	2.5	0.000 000



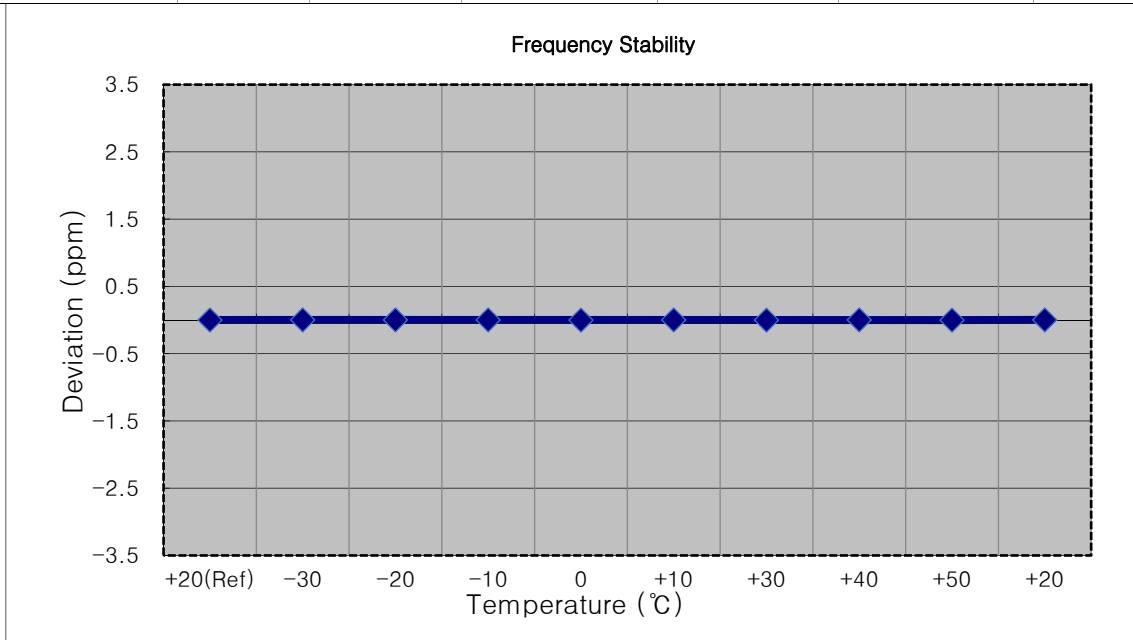
- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1882,500,000 Hz
- ▣ CHANNEL: 26365 (20 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1882 500 003	0.0	0.000 000	0.000
100 %		-30	1882 500 005	2.6	0.000 000	0.001
100 %		-20	1882 500 005	2.3	0.000 000	0.001
100 %		-10	1882 500 001	-1.6	0.000 000	-0.001
100 %		0	1882 500 005	2.0	0.000 000	0.001
100 %		+10	1882 500 005	2.5	0.000 000	0.001
100 %		+30	1882 500 007	4.2	0.000 000	0.002
100 %		+40	1882 500 007	4.0	0.000 000	0.002
100 %		+50	1882 499 998	-4.7	0.000 000	-0.002
Batt. Endpoint		3.400	+20	1882 500 005	2.2	0.000 000



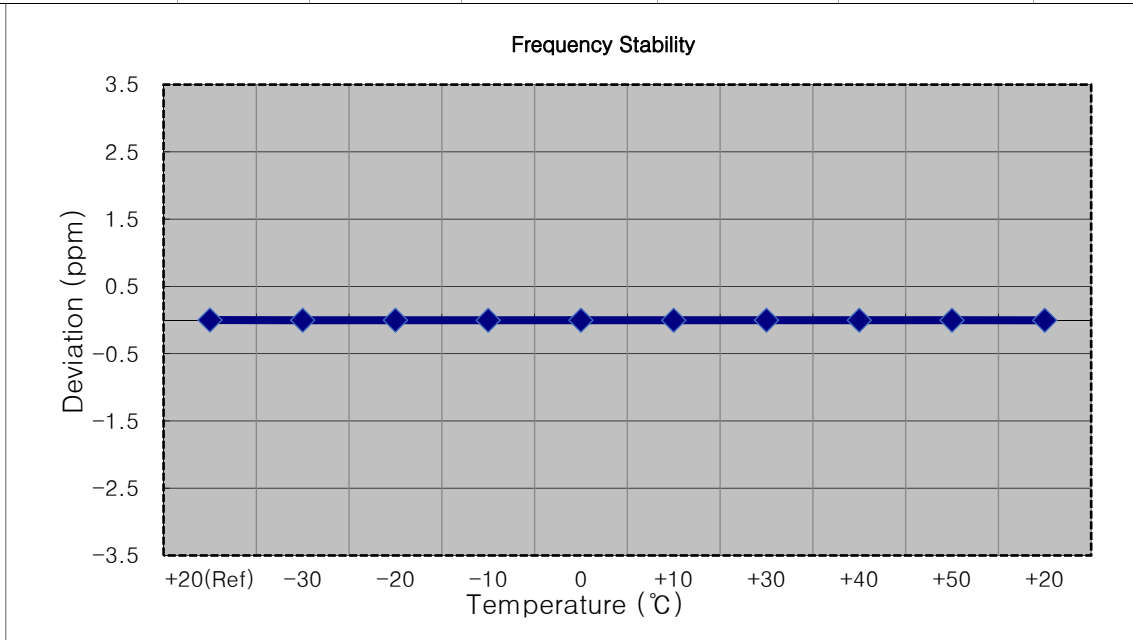
- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1914,300,000 Hz
- ▣ CHANNEL: 26683 (1.4 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1914 299 998	0.0	0.000 000	0.000
100 %		-30	1914 300 001	3.4	0.000 000	0.002
100 %		-20	1914 300 001	3.4	0.000 000	0.002
100 %		-10	1914 300 001	3.3	0.000 000	0.002
100 %		0	1914 299 994	-3.7	0.000 000	-0.002
100 %		+10	1914 300 001	3.3	0.000 000	0.002
100 %		+30	1914 299 995	-2.7	0.000 000	-0.001
100 %		+40	1914 300 001	3.2	0.000 000	0.002
100 %		+50	1914 299 995	-2.9	0.000 000	-0.002
Batt. Endpoint		3.400	+20	1914 300 001	3.3	0.000 000



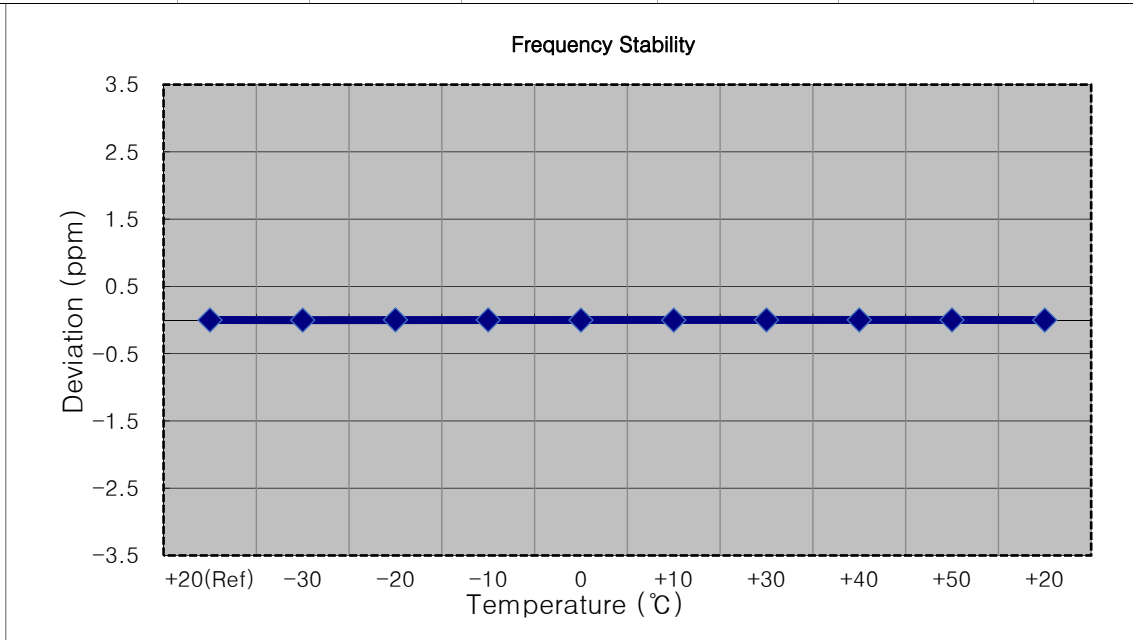
- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1913,500,000 Hz
- ▣ CHANNEL: 26675 (3 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1913 500 006	0.0	0.000 000	0.000
100 %		-30	1913 500 000	-6.8	0.000 000	-0.004
100 %		-20	1913 500 002	-4.2	0.000 000	-0.002
100 %		-10	1913 499 999	-7.7	0.000 000	-0.004
100 %		0	1913 500 000	-6.6	0.000 000	-0.003
100 %		+10	1913 499 999	-7.3	0.000 000	-0.004
100 %		+30	1913 500 001	-5.5	0.000 000	-0.003
100 %		+40	1913 500 001	-5.9	0.000 000	-0.003
100 %		+50	1913 500 001	-5.9	0.000 000	-0.003
Batt. Endpoint		3.400	+20	1913 499 998	-8.5	0.000 000



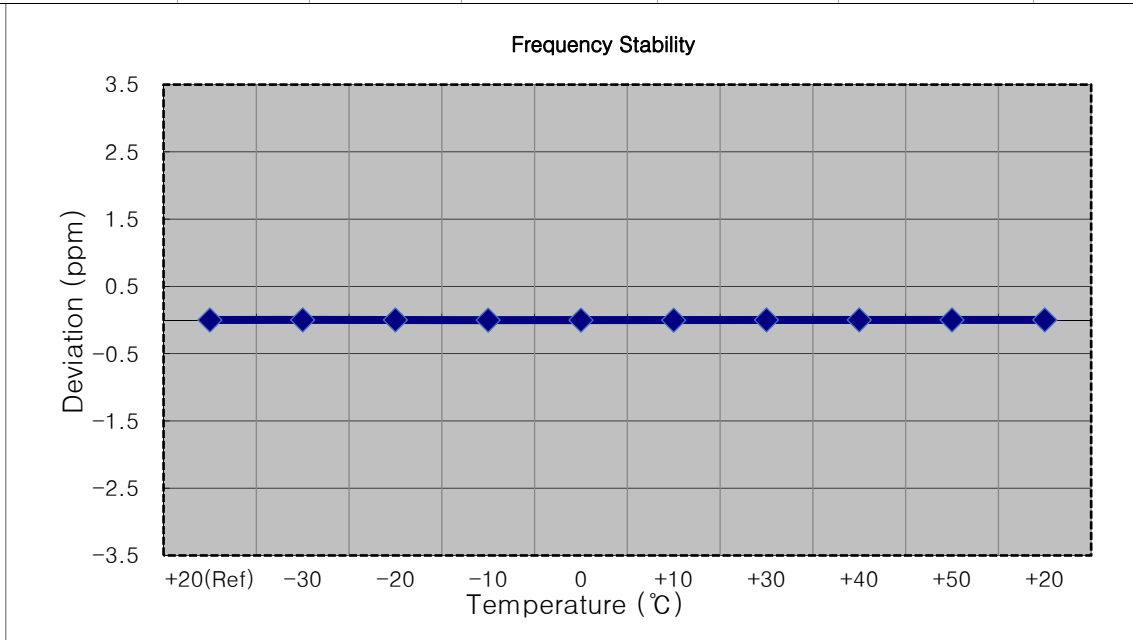
- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1912,500,000 Hz
- ▣ CHANNEL: 26665 (5 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1912 500 002	0.0	0.000 000	0.000
100 %		-30	1912 499 999	-3.1	0.000 000	-0.002
100 %		-20	1912 500 006	4.0	0.000 000	0.002
100 %		-10	1912 500 004	2.5	0.000 000	0.001
100 %		0	1912 499 999	-2.6	0.000 000	-0.001
100 %		+10	1912 499 999	-2.9	0.000 000	-0.002
100 %		+30	1912 500 005	3.1	0.000 000	0.002
100 %		+40	1912 500 004	2.4	0.000 000	0.001
100 %		+50	1912 500 005	2.8	0.000 000	0.001
Batt. Endpoint		3.400	+20	1912 500 000	-2.1	0.000 000



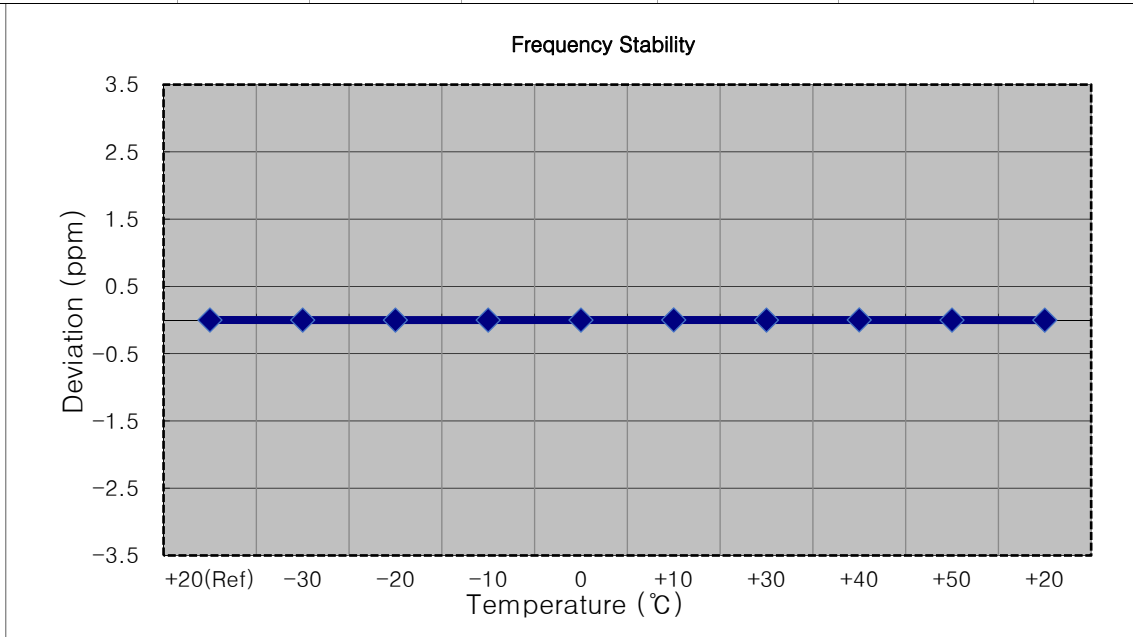
- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1910,000,000 Hz
- ▣ CHANNEL: 26640 (10 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1909 999 998	0.0	0.000 000	0.000
100 %		-30	1910 000 001	3.1	0.000 000	0.002
100 %		-20	1910 000 001	3.0	0.000 000	0.002
100 %		-10	1909 999 994	-3.5	0.000 000	-0.002
100 %		0	1909 999 994	-3.7	0.000 000	-0.002
100 %		+10	1909 999 993	-4.8	0.000 000	-0.003
100 %		+30	1910 000 000	2.2	0.000 000	0.001
100 %		+40	1910 000 001	3.0	0.000 000	0.002
100 %		+50	1910 000 001	3.3	0.000 000	0.002
Batt. Endpoint		3.400	+20	1910 000 000	2.5	0.000 000



- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1907,500,000 Hz
- ▣ CHANNEL: 26615 (15 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

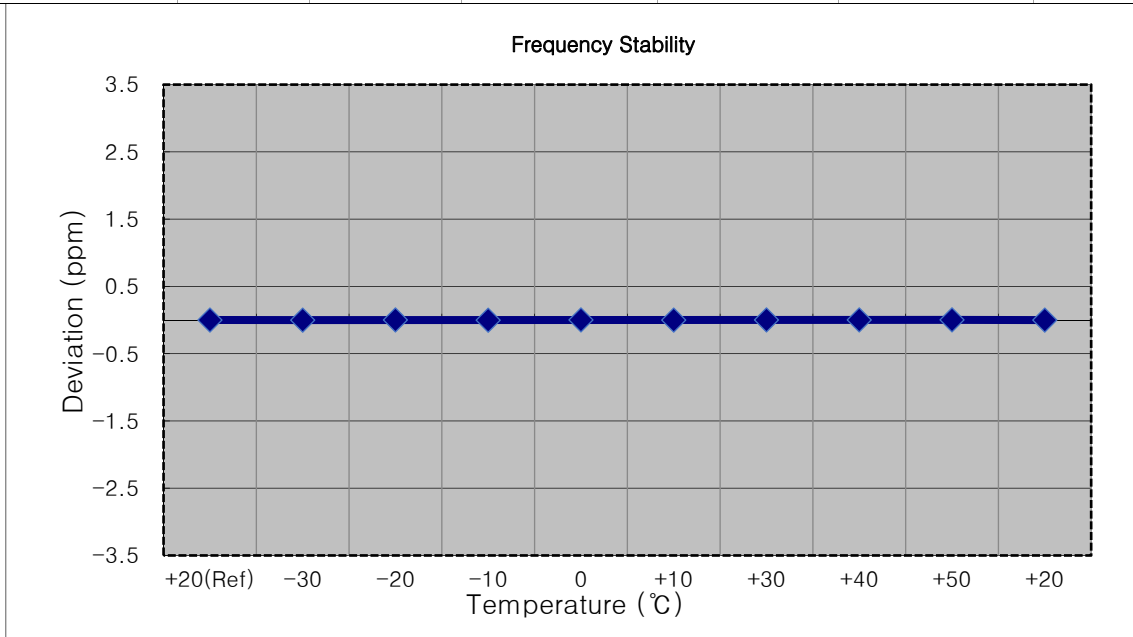
Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1907 499 997	0.0	0.000 000	0.000
100 %		-30	1907 499 995	-2.3	0.000 000	-0.001
100 %		-20	1907 499 995	-2.3	0.000 000	-0.001
100 %		-10	1907 499 995	-2.0	0.000 000	-0.001
100 %		0	1907 499 995	-2.0	0.000 000	-0.001
100 %		+10	1907 500 000	2.9	0.000 000	0.002
100 %		+30	1907 499 995	-2.2	0.000 000	-0.001
100 %		+40	1907 500 000	2.6	0.000 000	0.001
100 %		+50	1907 499 996	-1.4	0.000 000	-0.001
Batt. Endpoint		3.400	+20	1907 499 995	-2.6	0.000 000





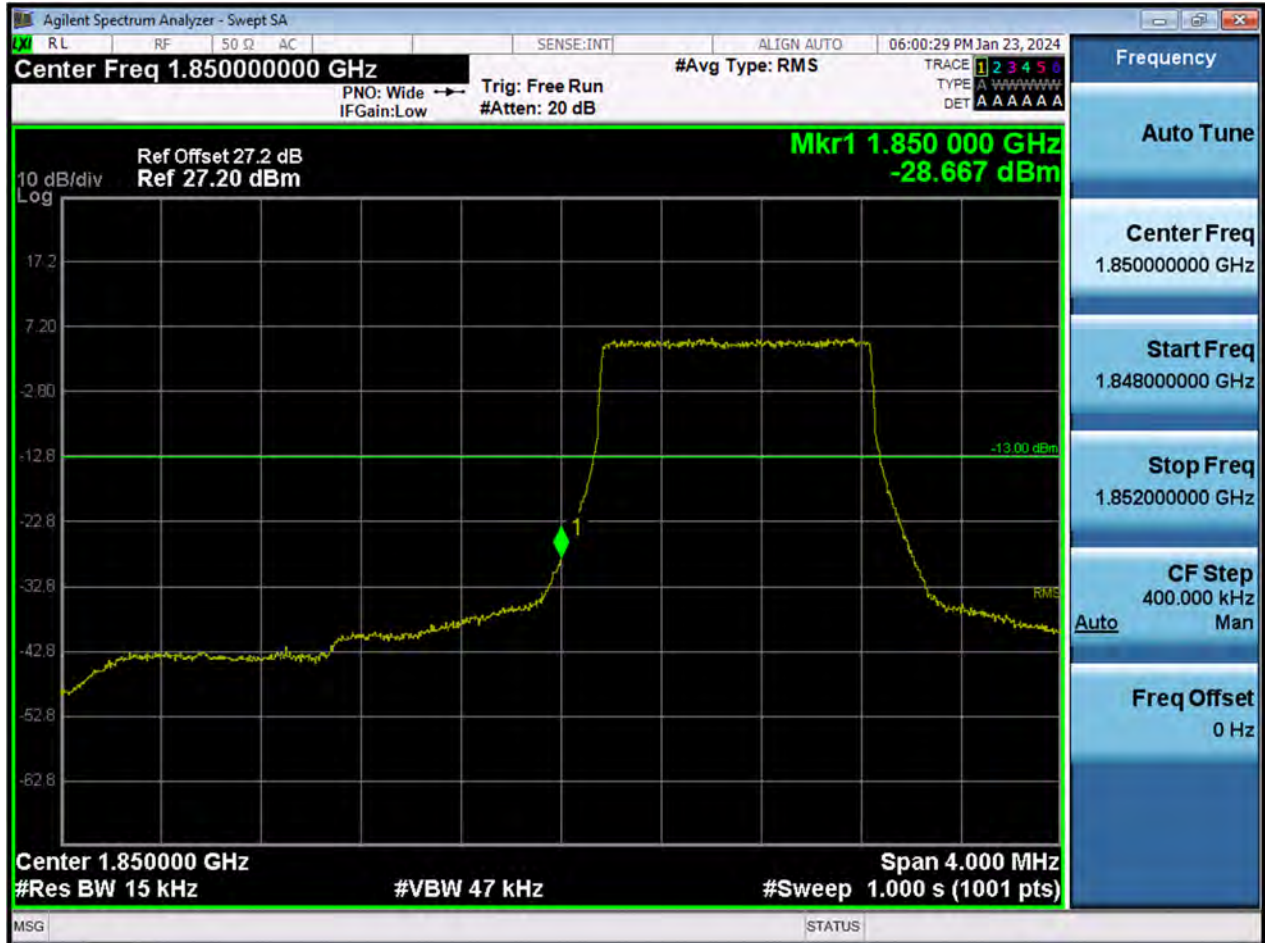
- ▣ MODE: LTE B25/B2
- ▣ OPERATING FREQUENCY: 1905,000,000 Hz
- ▣ CHANNEL: 26590 (20 MHz)
- ▣ REFERENCE VOLTAGE: 3.850 VDC
- ▣ DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100 %	3.850	+20(Ref)	1904 999 997	0.0	0.000 000	0.000
100 %		-30	1904 999 995	-2.6	0.000 000	-0.001
100 %		-20	1905 000 001	3.3	0.000 000	0.002
100 %		-10	1904 999 992	-4.9	0.000 000	-0.003
100 %		0	1905 000 000	3.1	0.000 000	0.002
100 %		+10	1904 999 995	-2.0	0.000 000	-0.001
100 %		+30	1905 000 000	2.3	0.000 000	0.001
100 %		+40	1905 000 000	2.7	0.000 000	0.001
100 %		+50	1905 000 001	3.8	0.000 000	0.002
Batt. Endpoint		3.400	+20	1904 999 996	-1.8	0.000 000

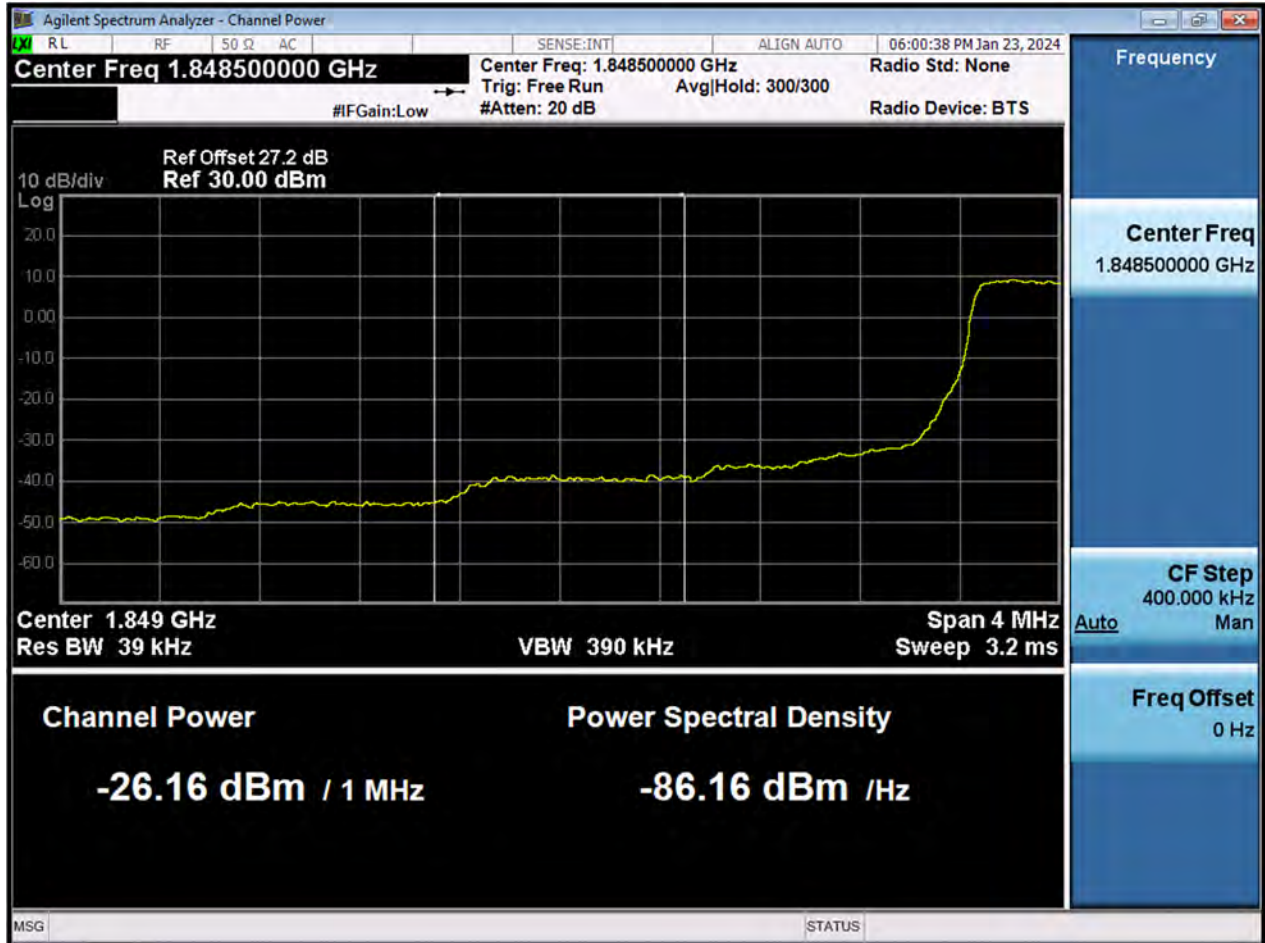


## 9. TEST PLOTS

BW1.4 M\_BandEdge\_Lowest Channel\_QPSK\_FullRB(1)



BW1.4 M\_BandEdge\_Lowest Channel\_QPSK\_FullRB(2)

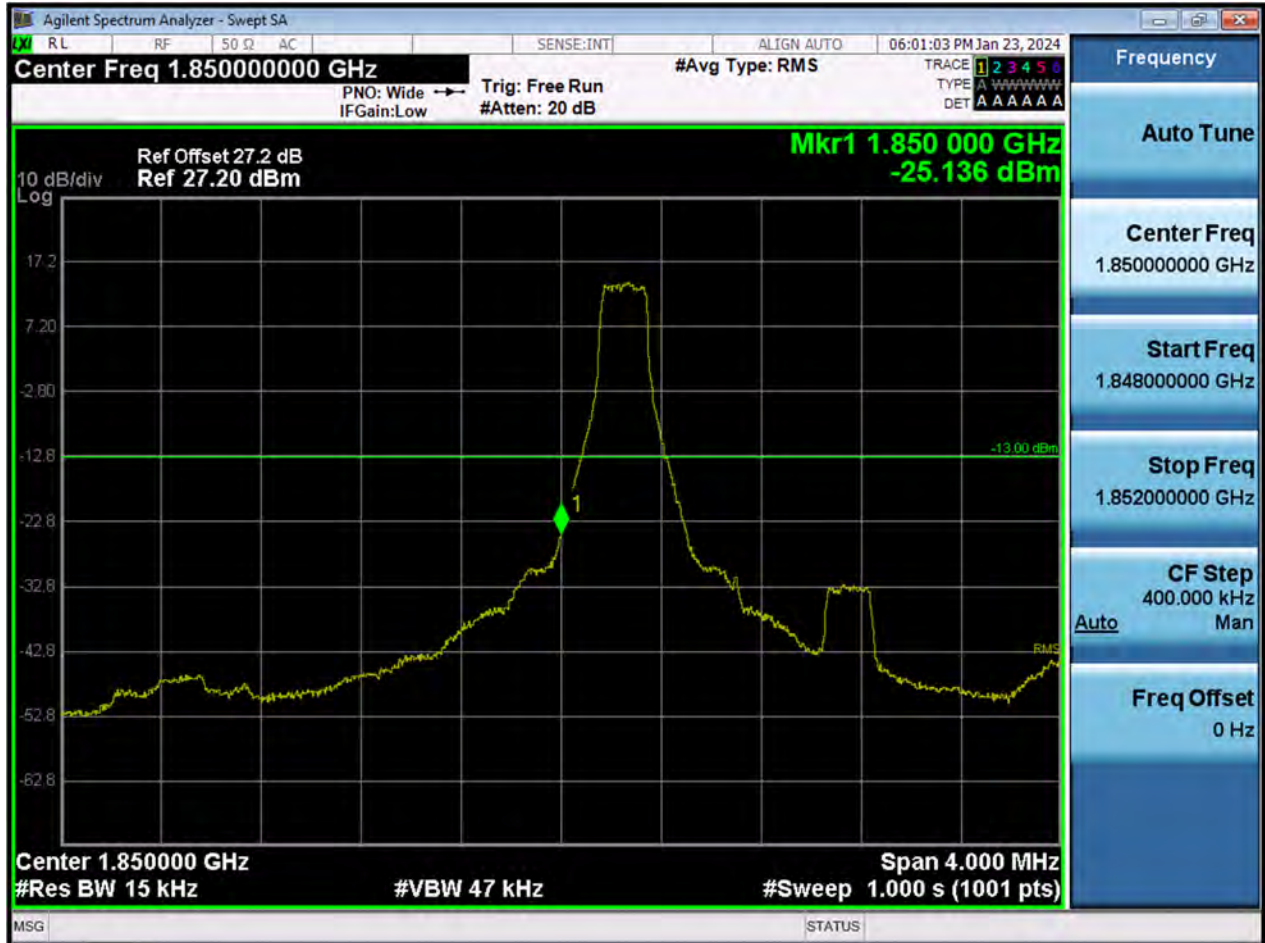


BW1.4 M\_BandEdge\_Highest Channel\_QPSK\_FullRB(1)

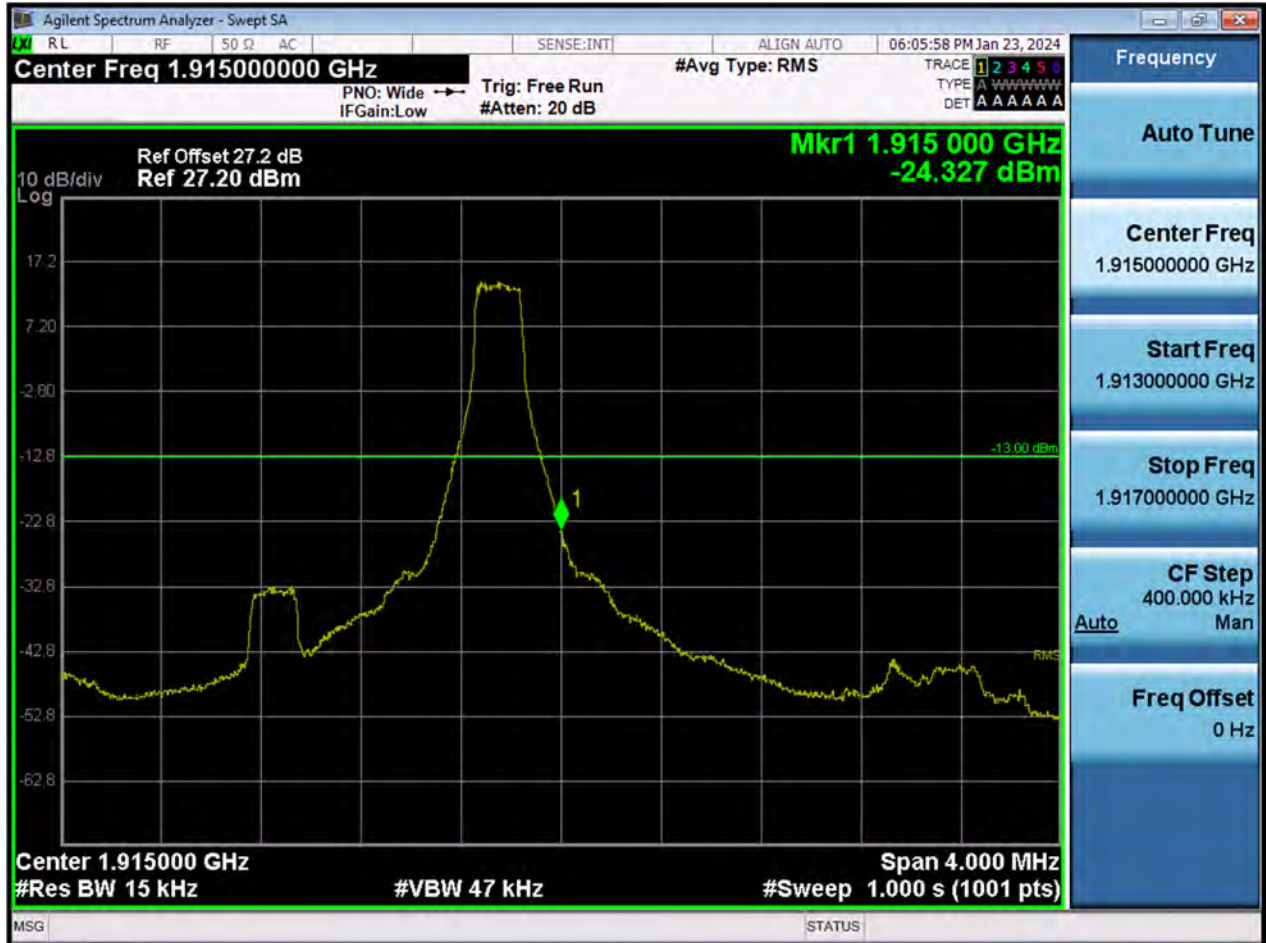




BW1.4 M\_BandEdge\_Lowest Channel\_QPSK\_1RB

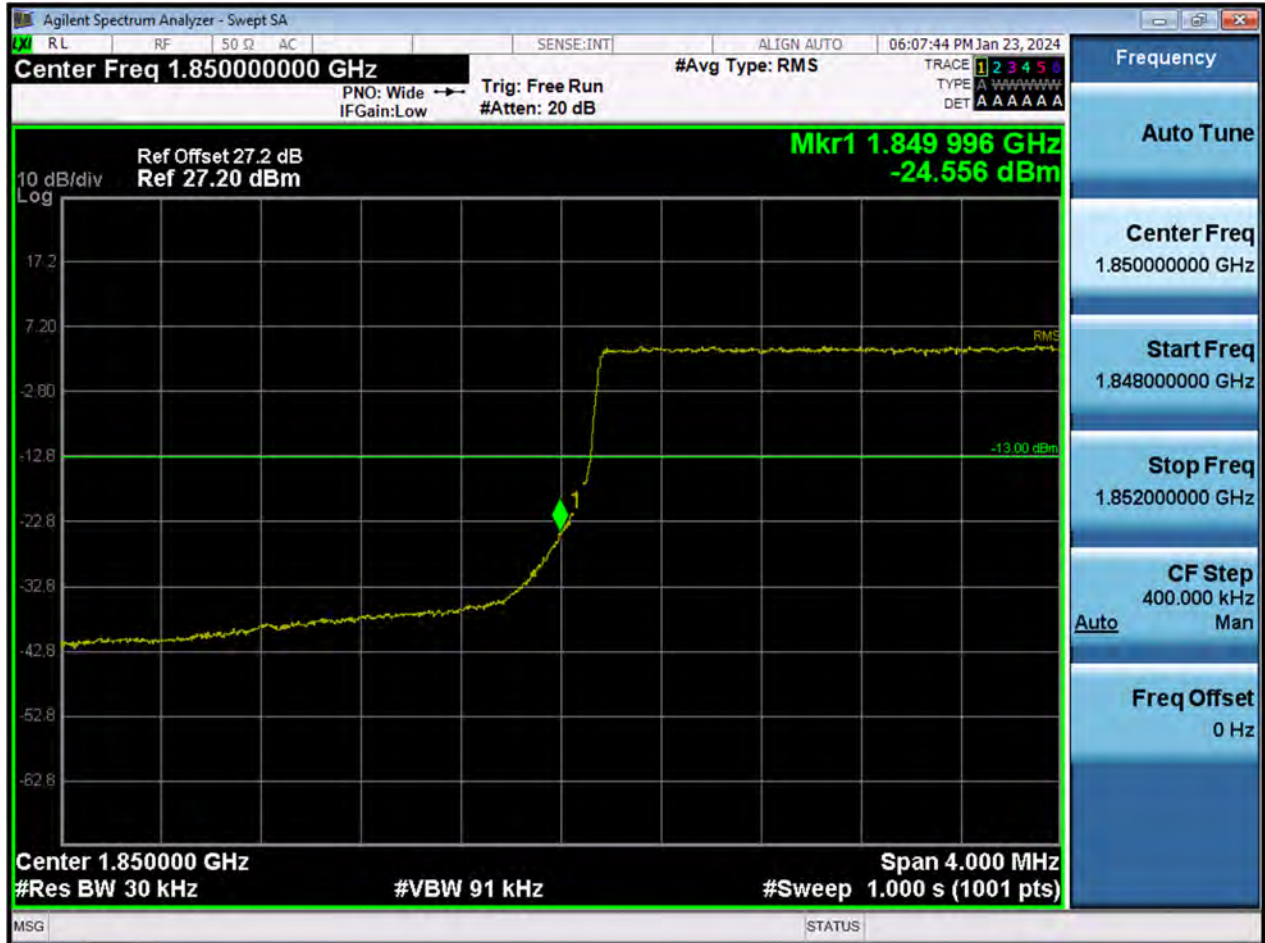


BW1.4 M\_BandEdge\_Highest Channel\_QPSK\_1RB

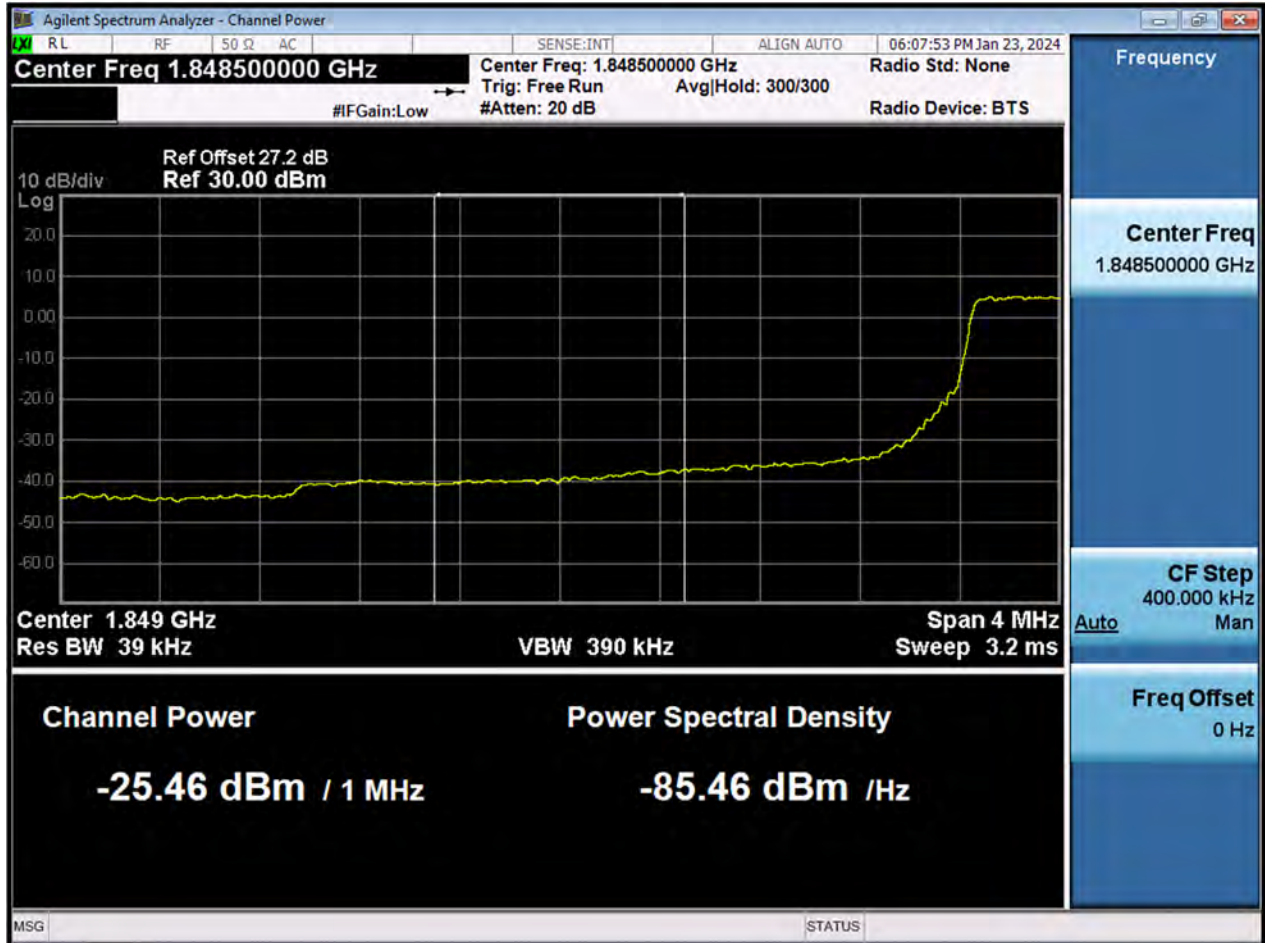




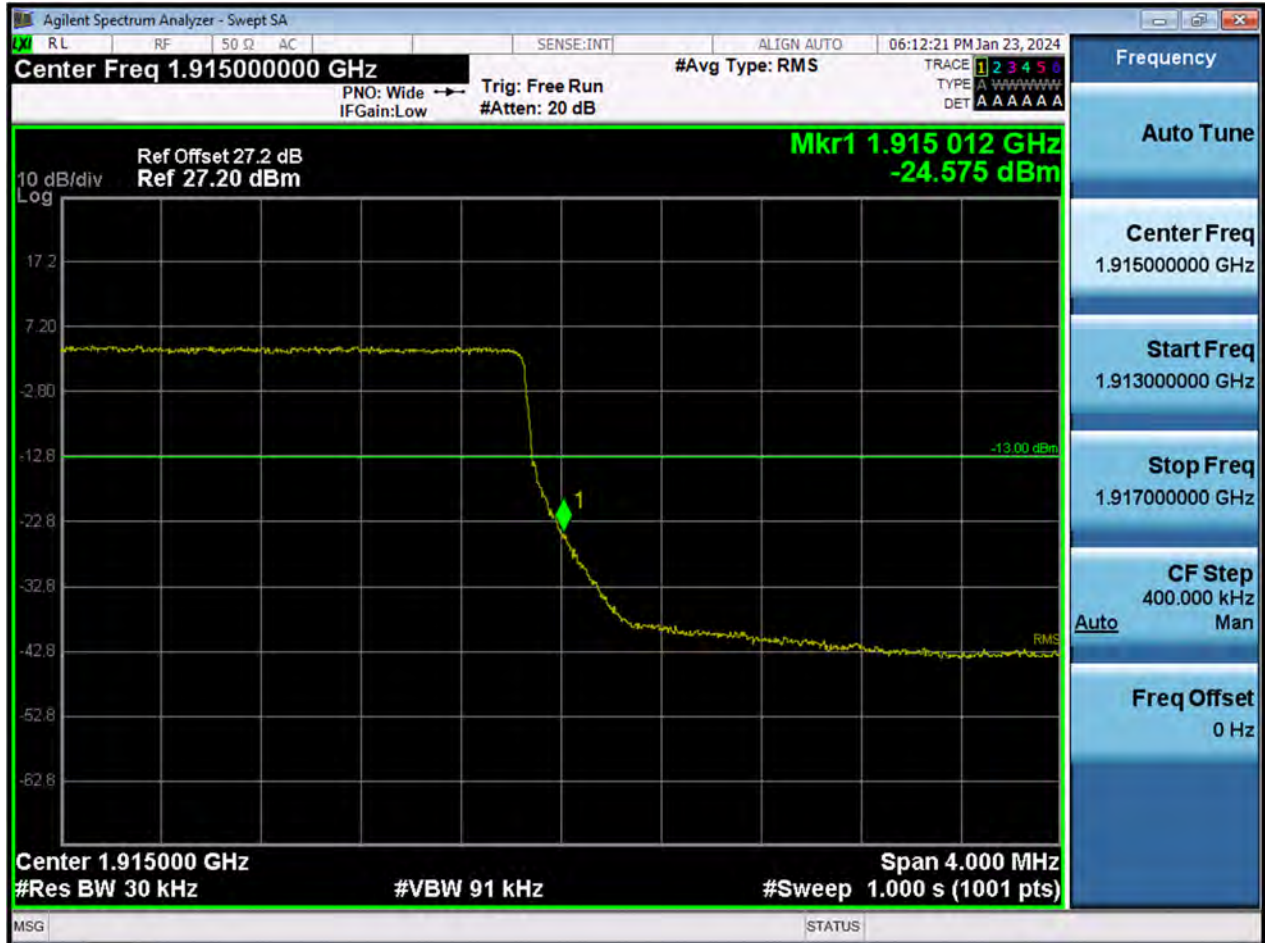
BW3 M\_BandEdge\_Lowest Channel\_QPSK\_FullRB(1)



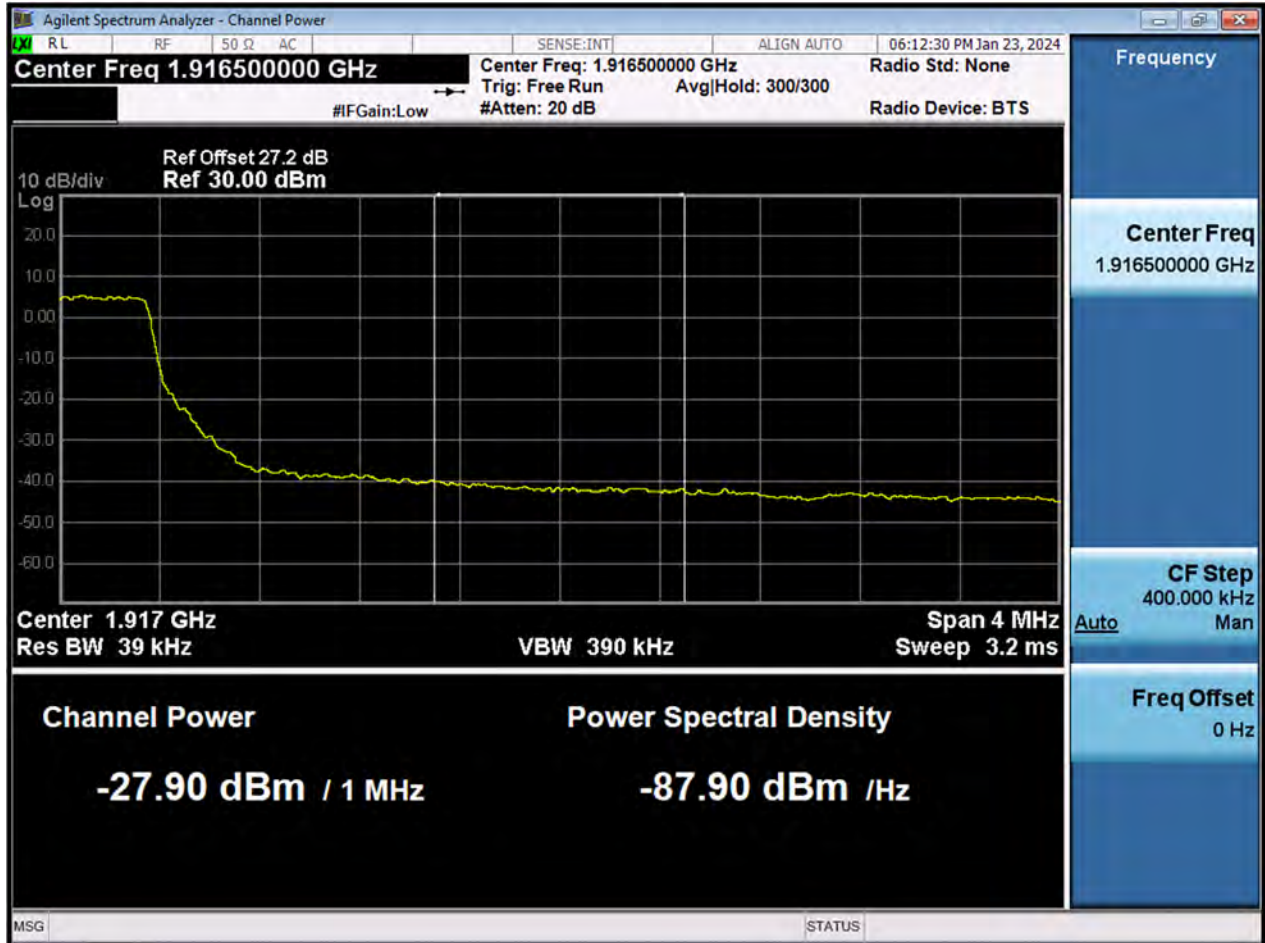
### BW3 M\_BandEdge\_Lowest Channel\_QPSK\_FullRB(2)



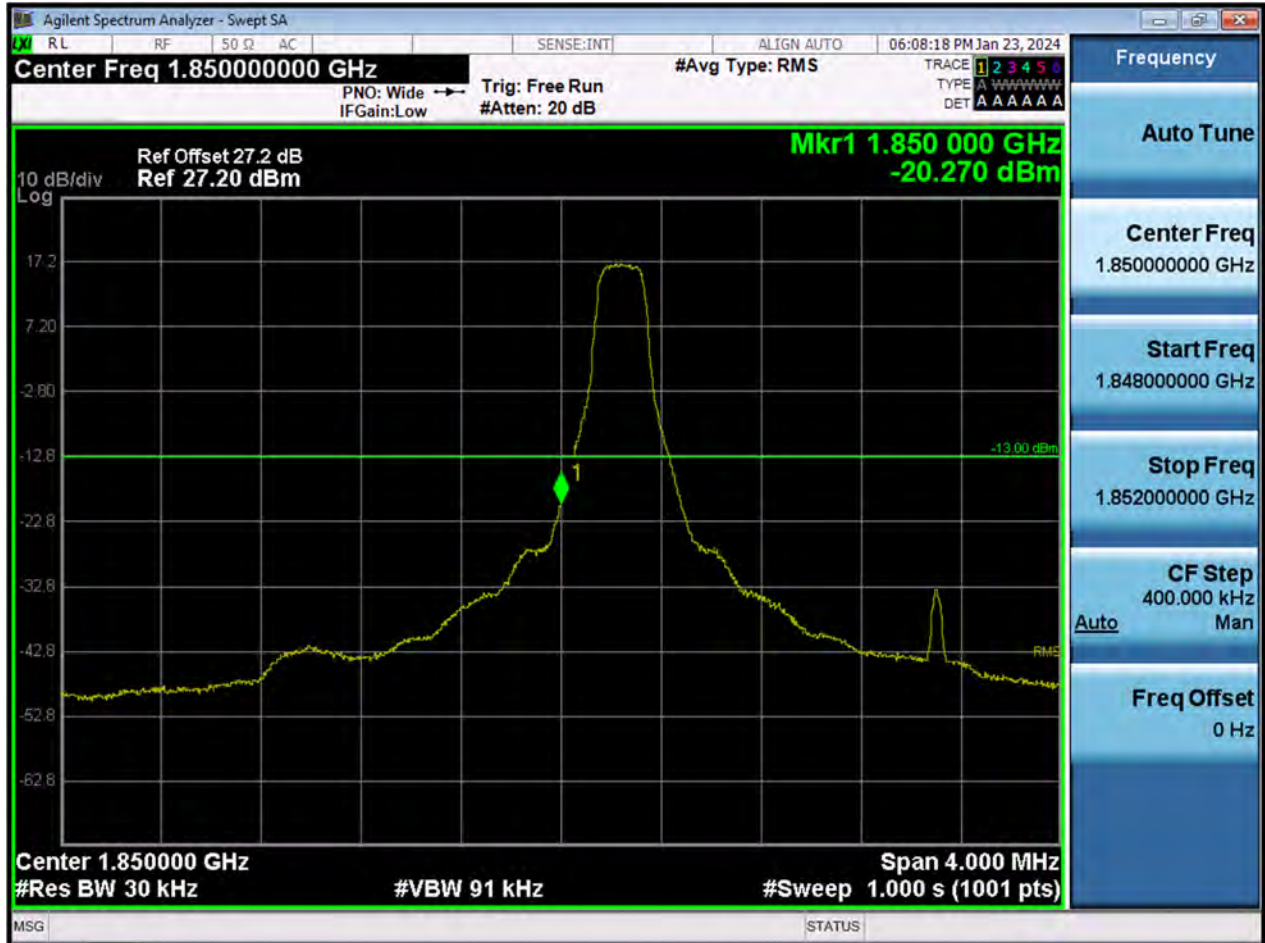
BW3 M\_BandEdge\_Highest Channel\_QPSK\_FullRB(1)



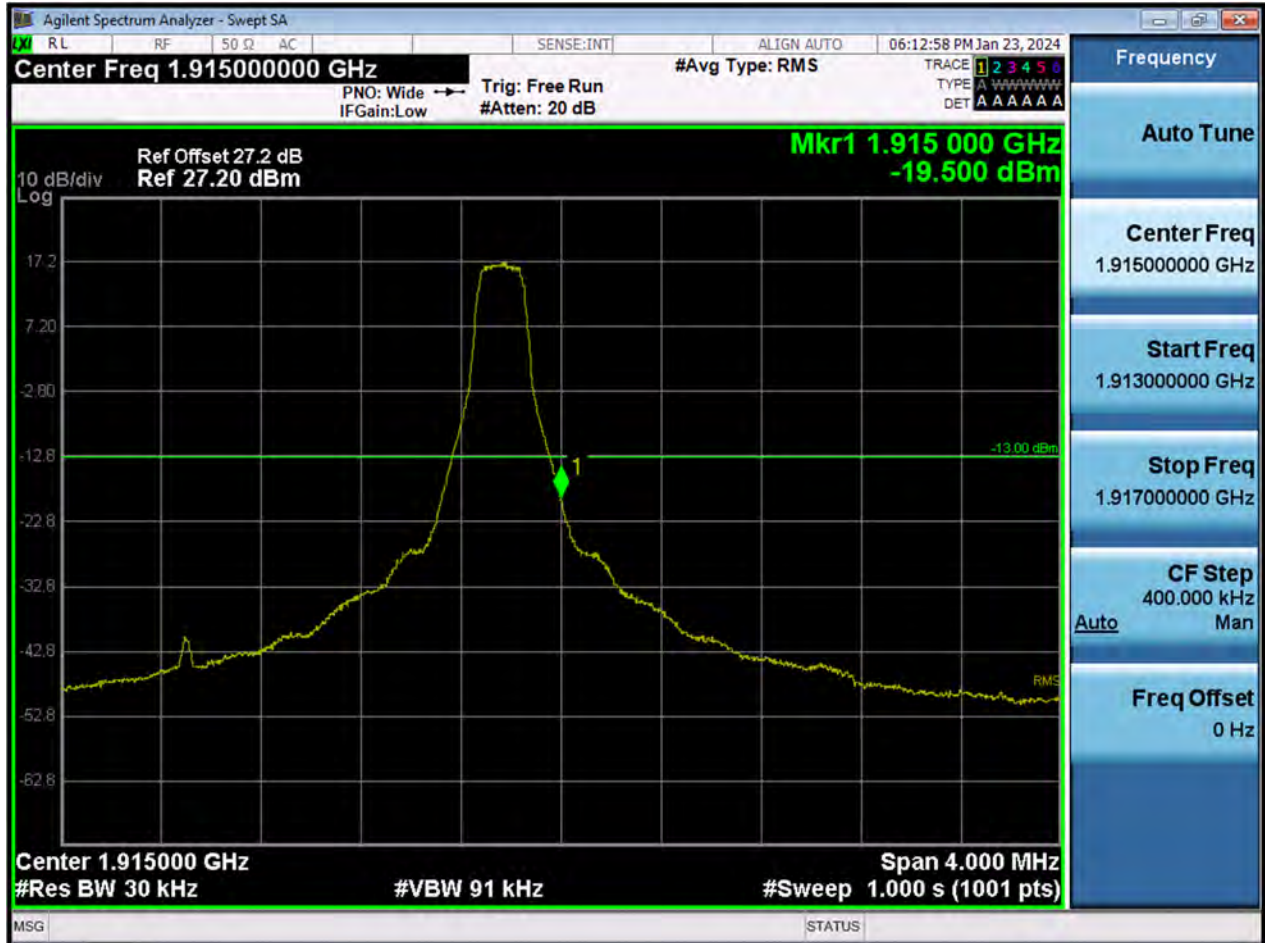
BW3 M\_BandEdge\_Highest Channel\_QPSK\_FullRB(2)



BW3 M\_BandEdge\_Lowest Channel\_QPSK\_1RB



BW3 M\_BandEdge\_Highest Channel\_QPSK\_1RB



BW5 M\_BandEdge\_Lowest Channel\_QPSK\_FullRB(1)



BW5 M\_BandEdge\_Lowest Channel\_QPSK\_FullRB(2)

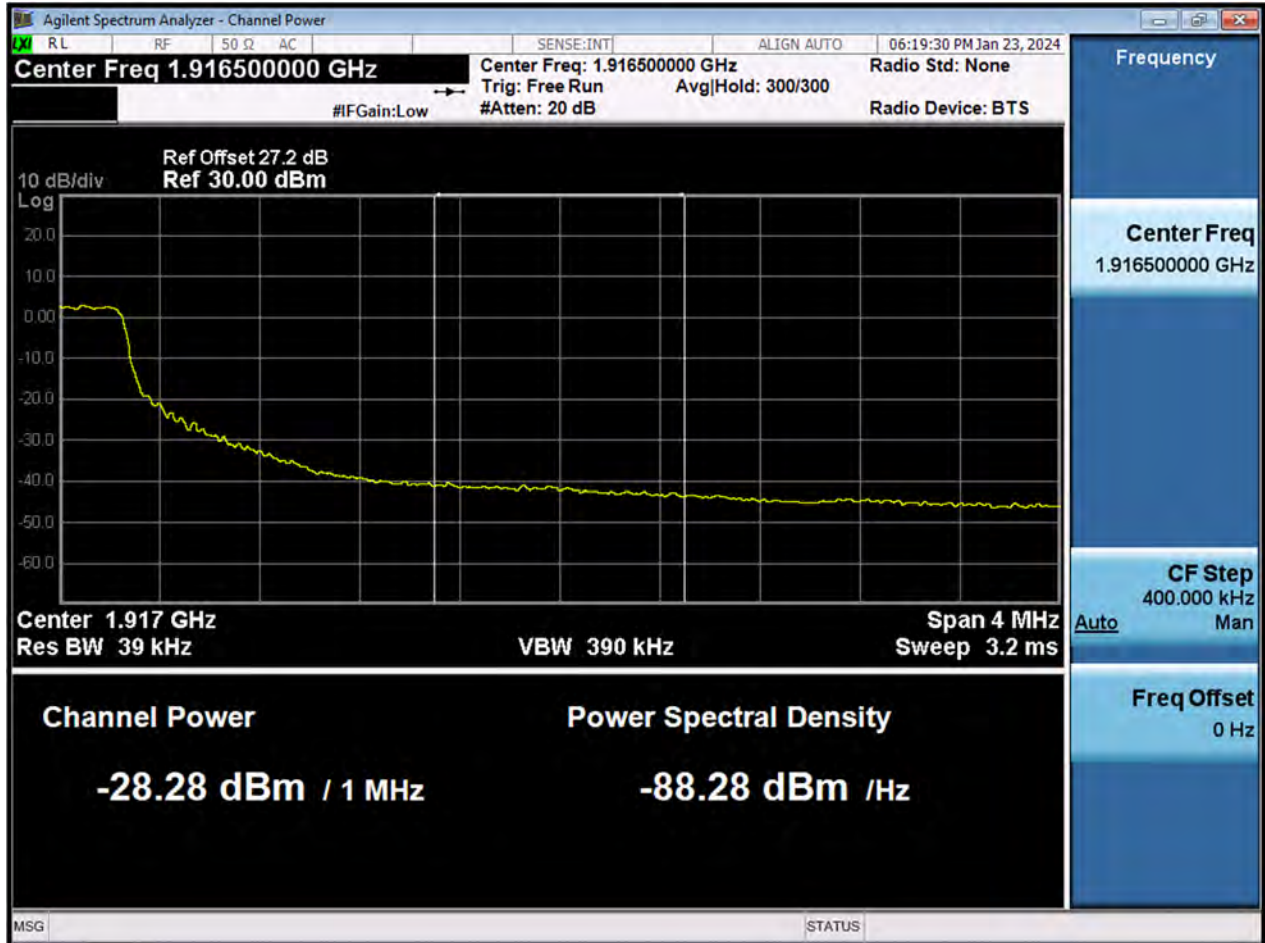




BW5 M\_BandEdge\_Highest Channel\_QPSK\_FullRB(1)



BW5 M\_BandEdge\_Highest Channel\_QPSK\_FullRB(2)



BW5 M\_BandEdge\_Lowest Channel\_QPSK\_1RB



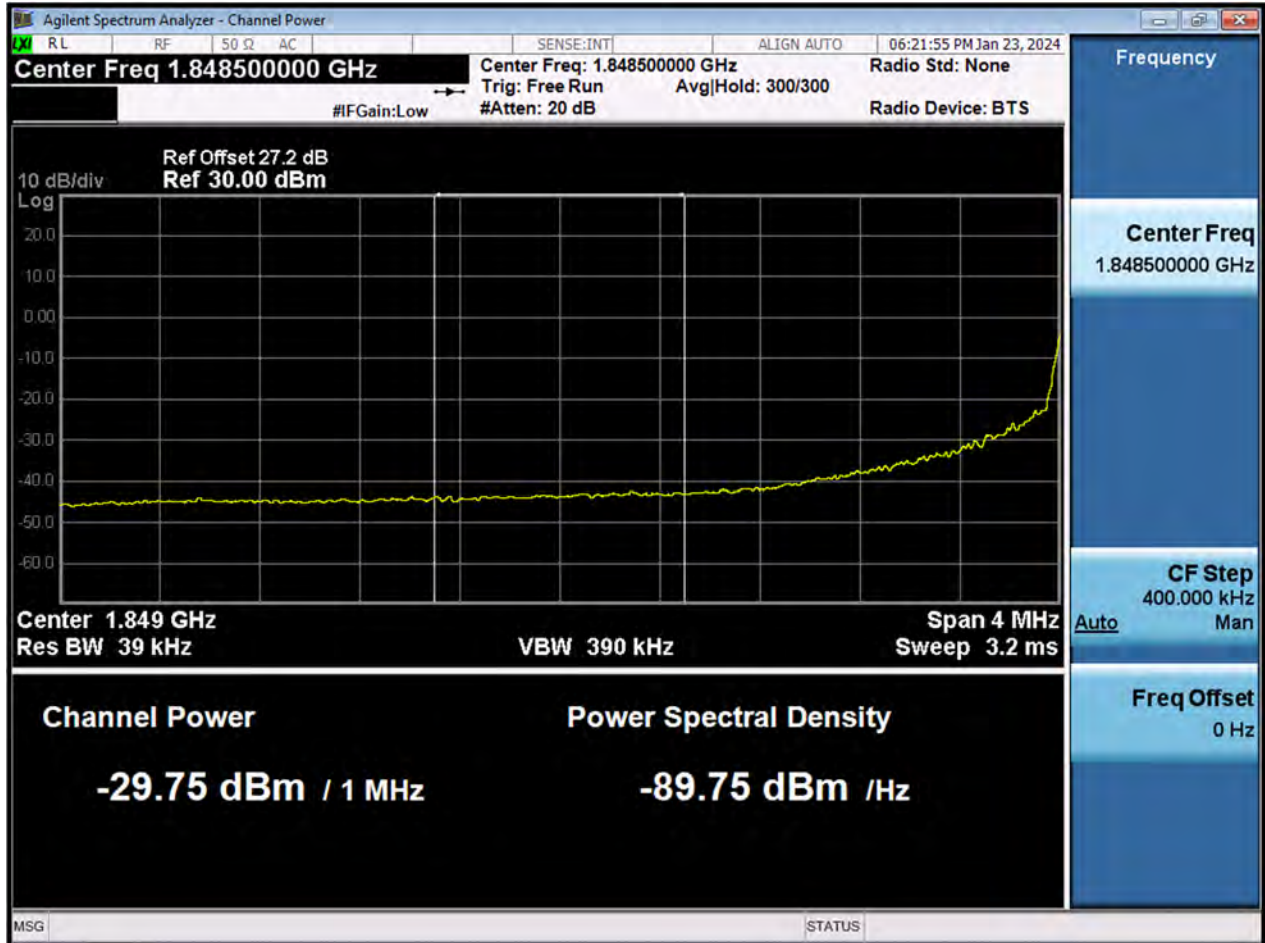
BW5 M\_BandEdge\_Highest Channel\_QPSK\_1RB



BW10 M\_BandEdge\_Lowest Channel\_QPSK\_FullRB(1)



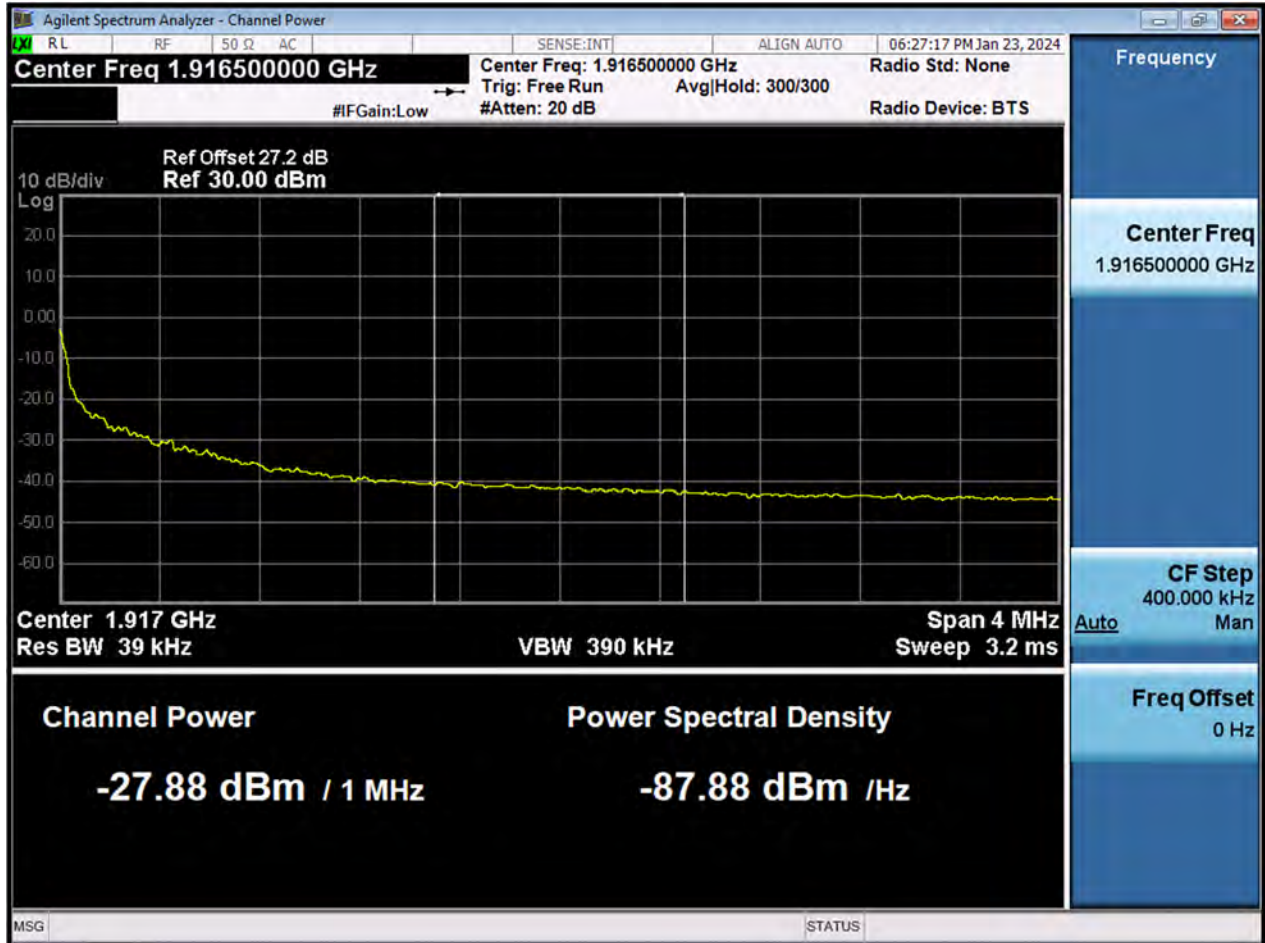
BW10 M\_BandEdge\_Lowest Channel\_QPSK\_FullRB(2)



### BW10 M\_BandEdge\_Highest Channel\_QPSK\_FullRB(1)



BW10 M\_BandEdge\_Highest Channel\_QPSK\_FullRB(2)

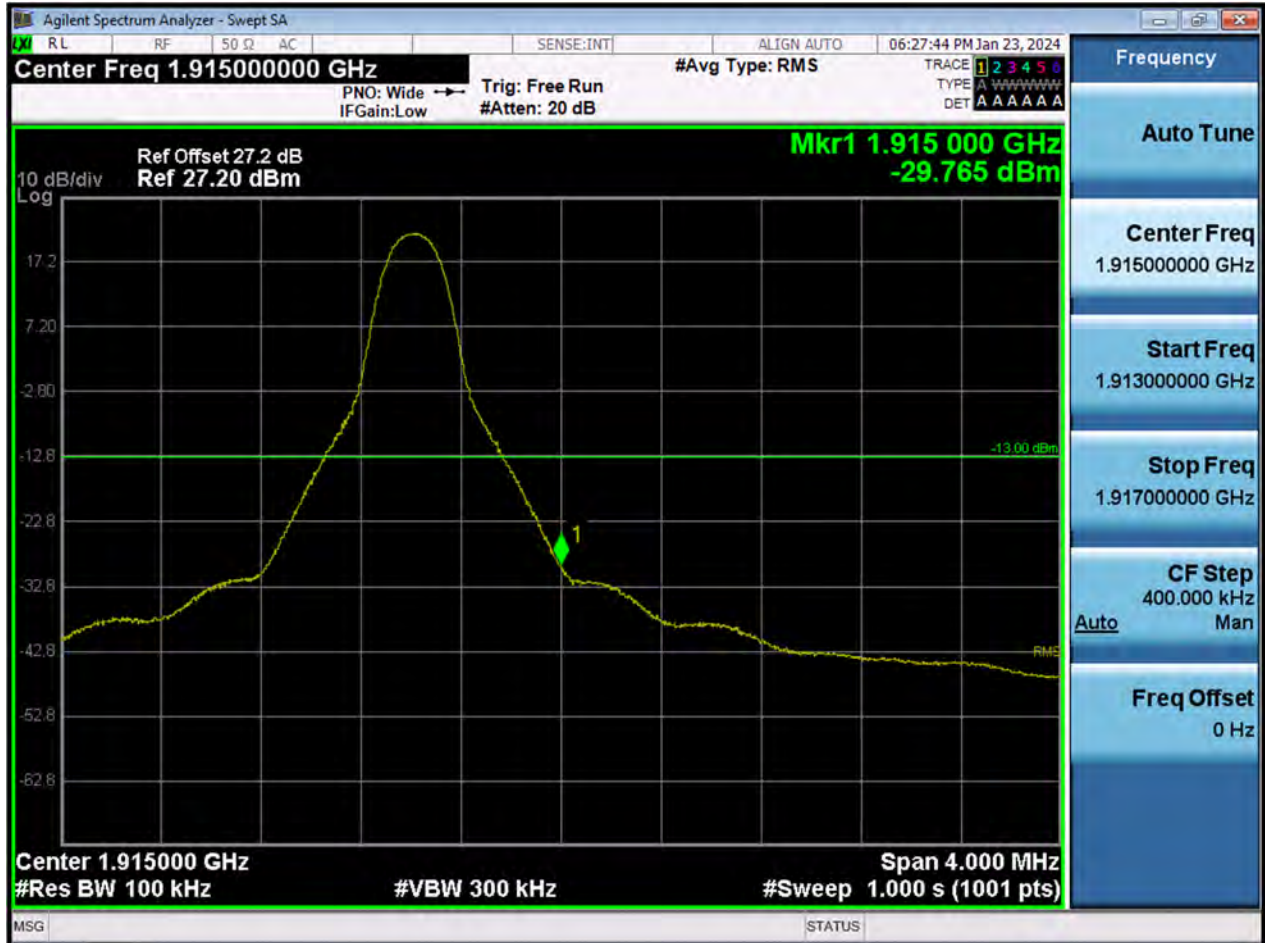




BW10 M\_BandEdge\_Lowest Channel\_QPSK\_1RB



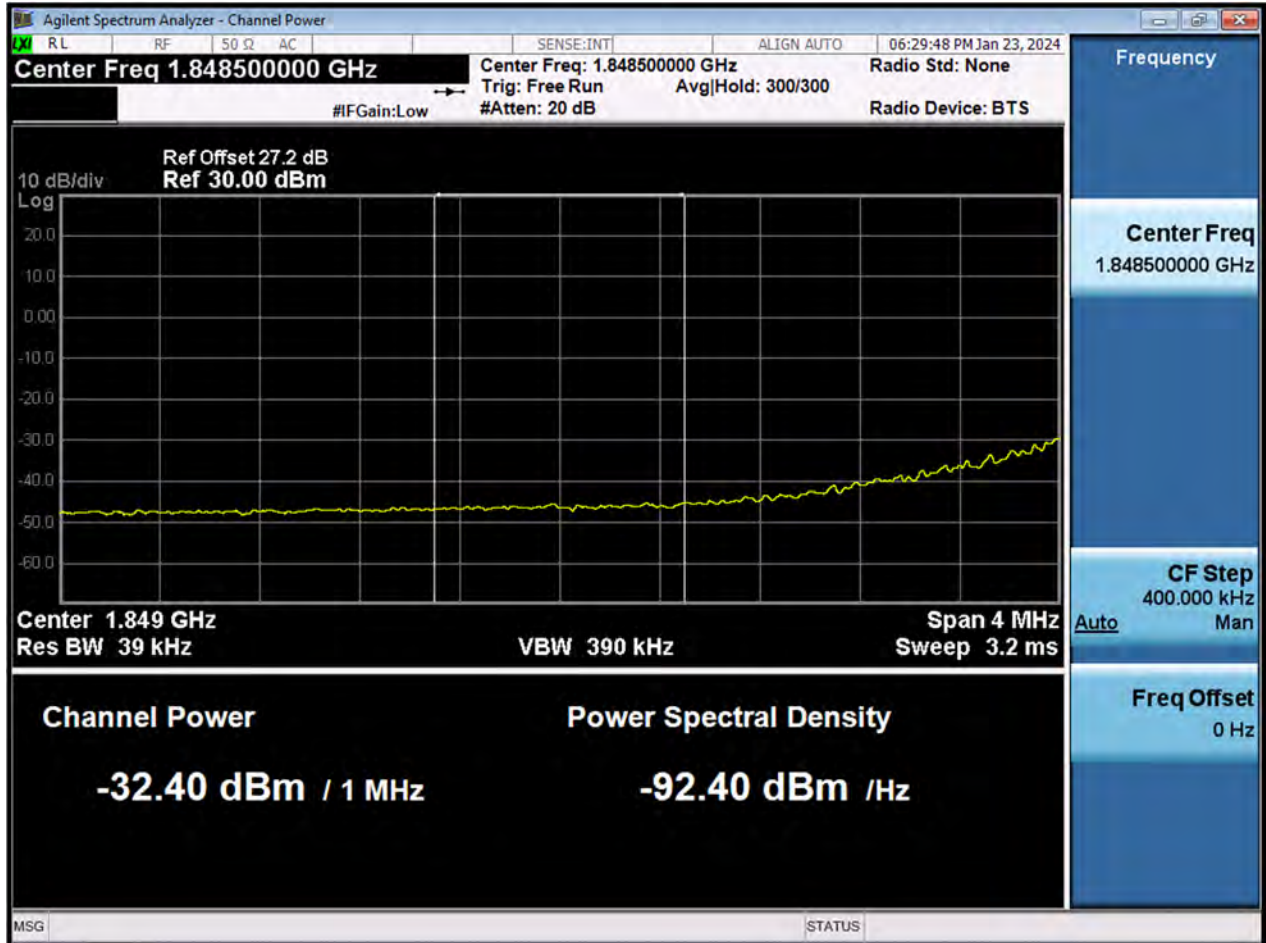
BW10 M\_BandEdge\_Highest Channel\_QPSK\_1RB



BW15 M\_BandEdge\_Lowest Channel\_QPSK\_FullRB(1)



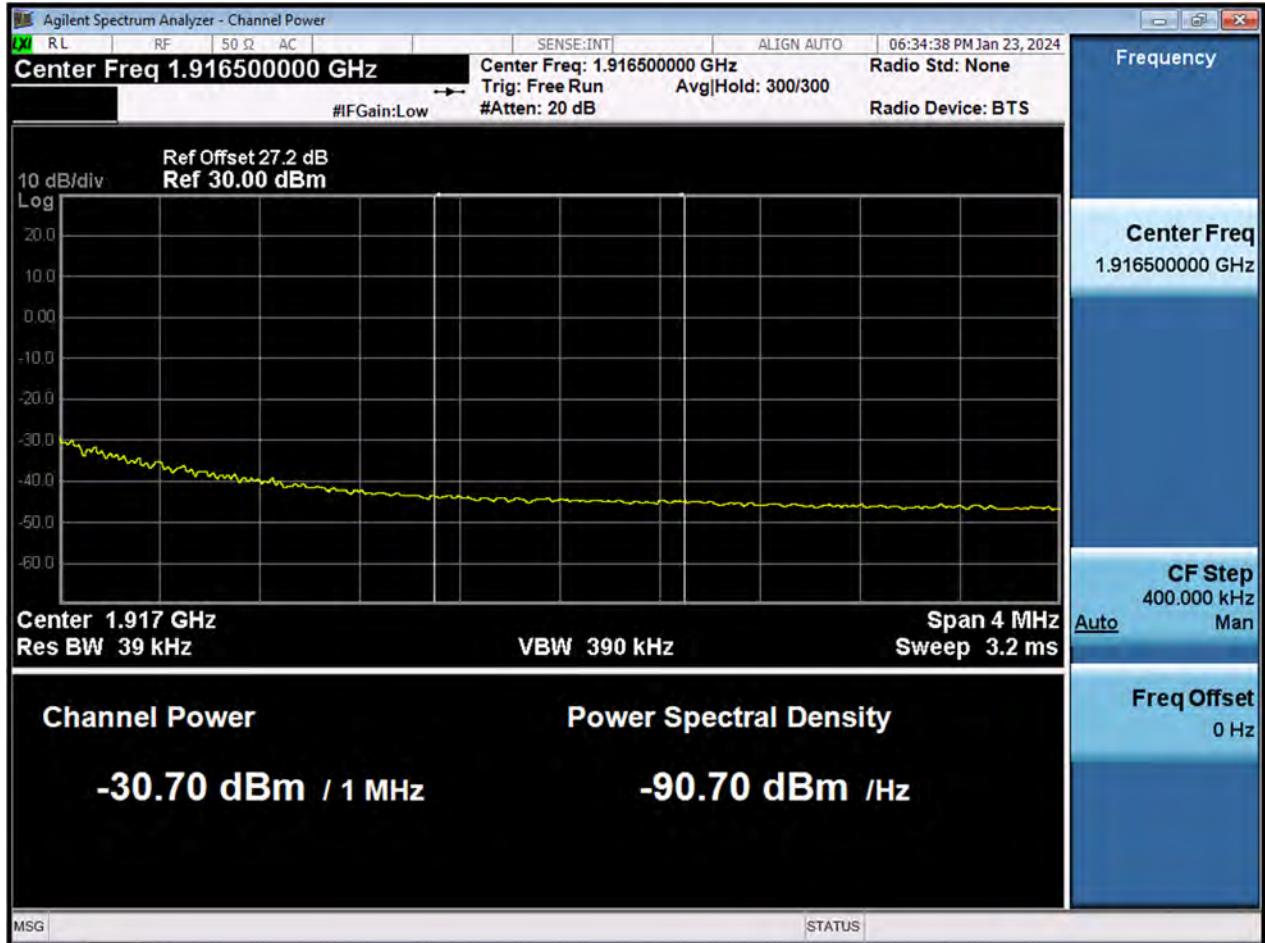
BW15 M\_BandEdge\_Lowest Channel\_QPSK\_FullRB(2)



BW15 M\_BandEdge\_Highest Channel\_QPSK\_FullRB(1)



BW15 M\_BandEdge\_Highest Channel\_QPSK\_FullRB(2)





BW15 M\_BandEdge\_Highest Channel\_QPSK\_1RB

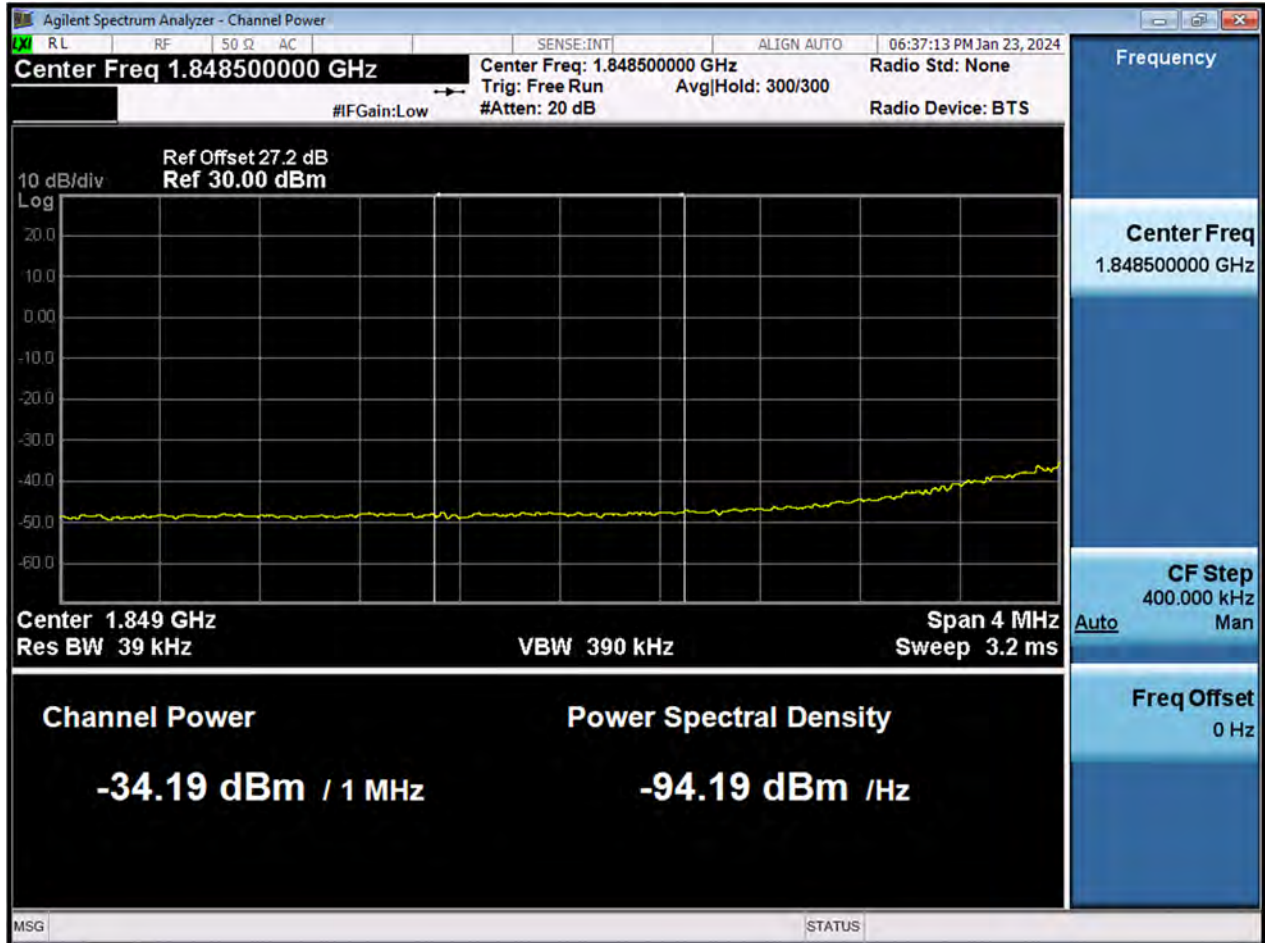




BW20 M\_BandEdge\_Lowest Channel\_QPSK\_FullRB(1)



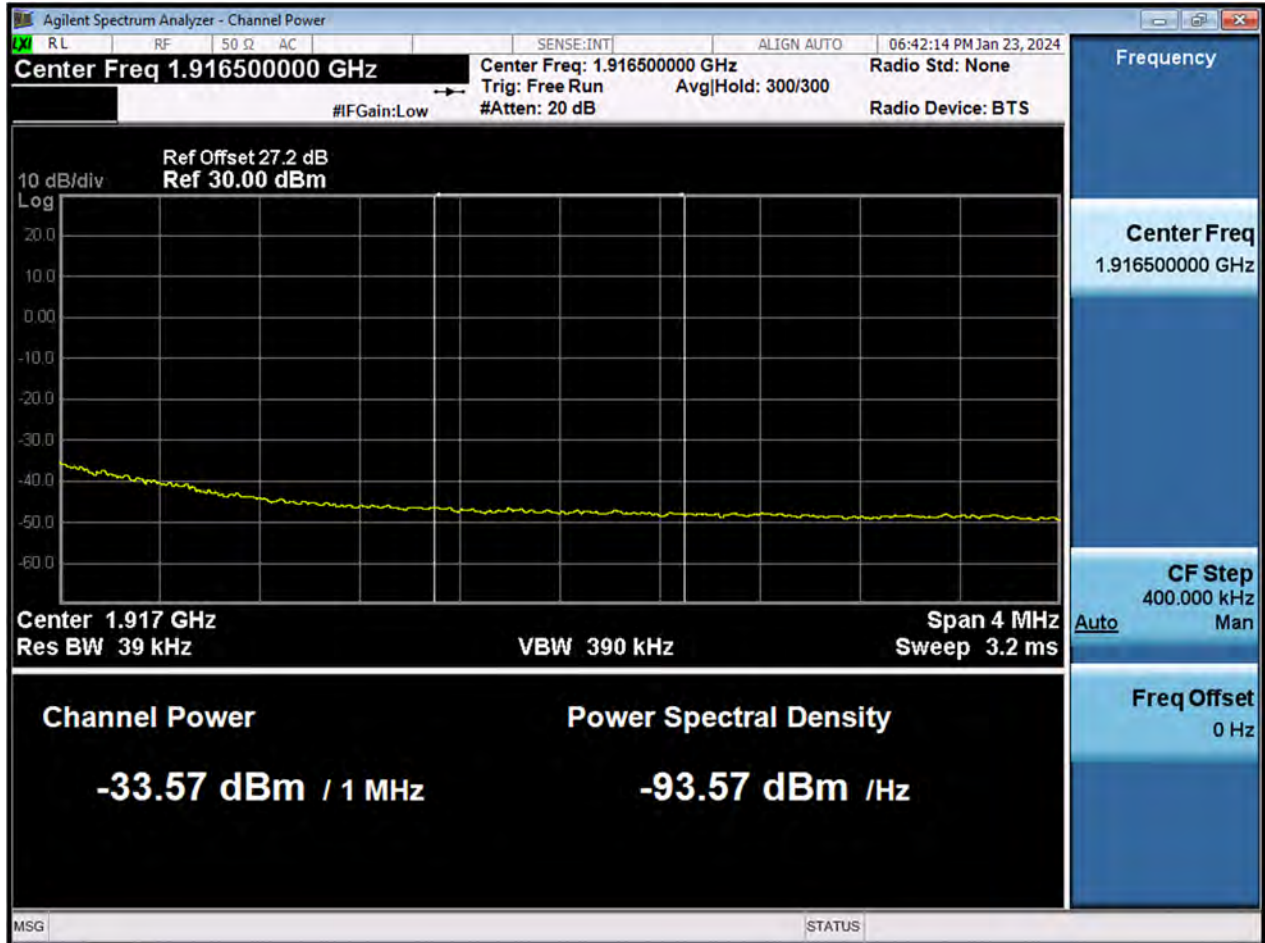
BW20 M\_BandEdge\_Lowest Channel\_QPSK\_FullRB(2)



BW20 M\_BandEdge\_Highest Channel\_QPSK\_FullRB(1)



BW20 M\_BandEdge\_Highest Channel\_QPSK\_FullRB(2)



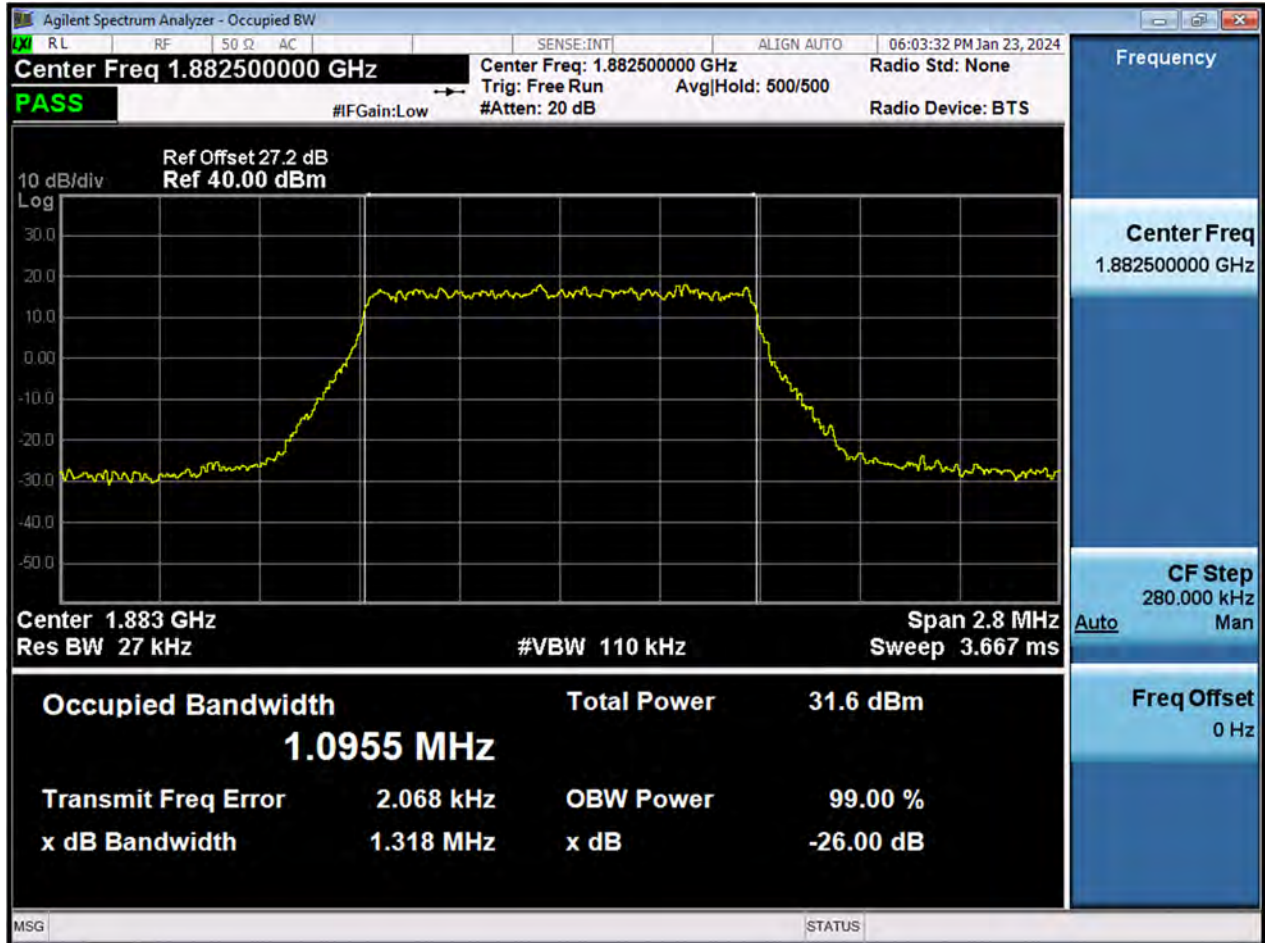
BW20 M\_BandEdge\_Lowest Channel\_QPSK\_1RB



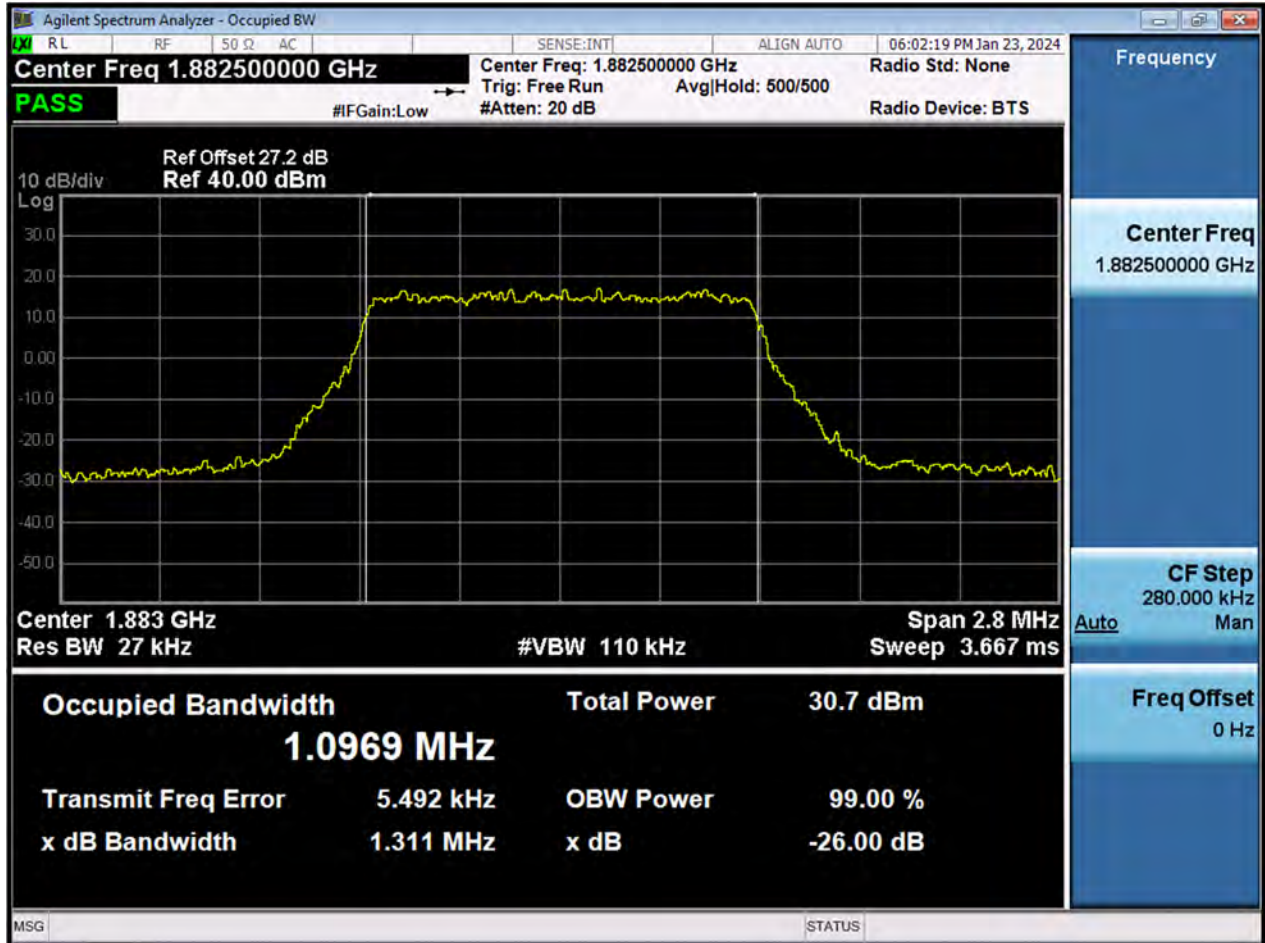
BW20 M\_BandEdge\_Highest Channel\_QPSK\_1RB



## BW1.4 M\_OBW\_Middle Channel\_QPSK\_FullRB

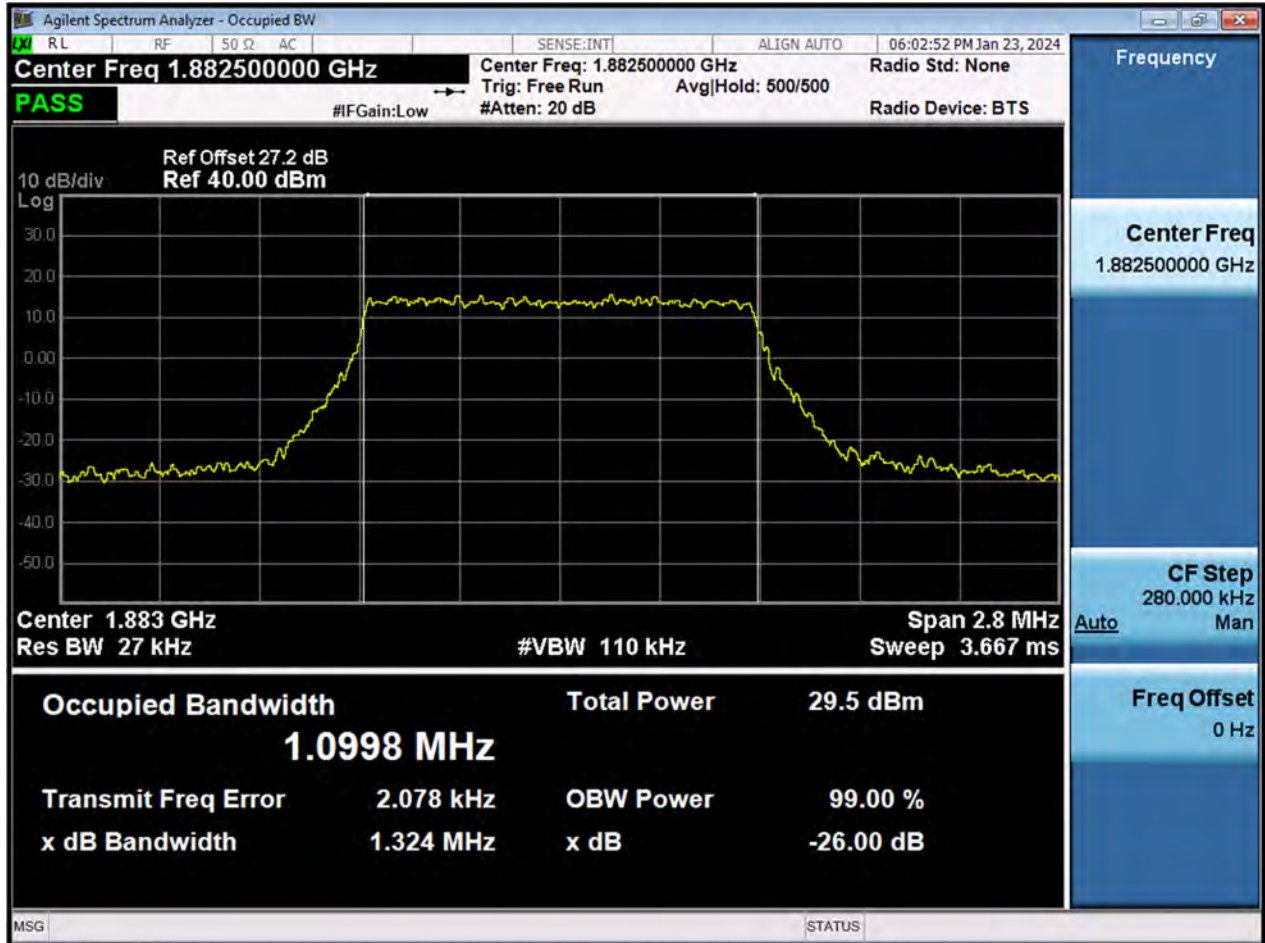


BW1.4 M\_OBW\_Middle Channel\_16QAM\_FullRB

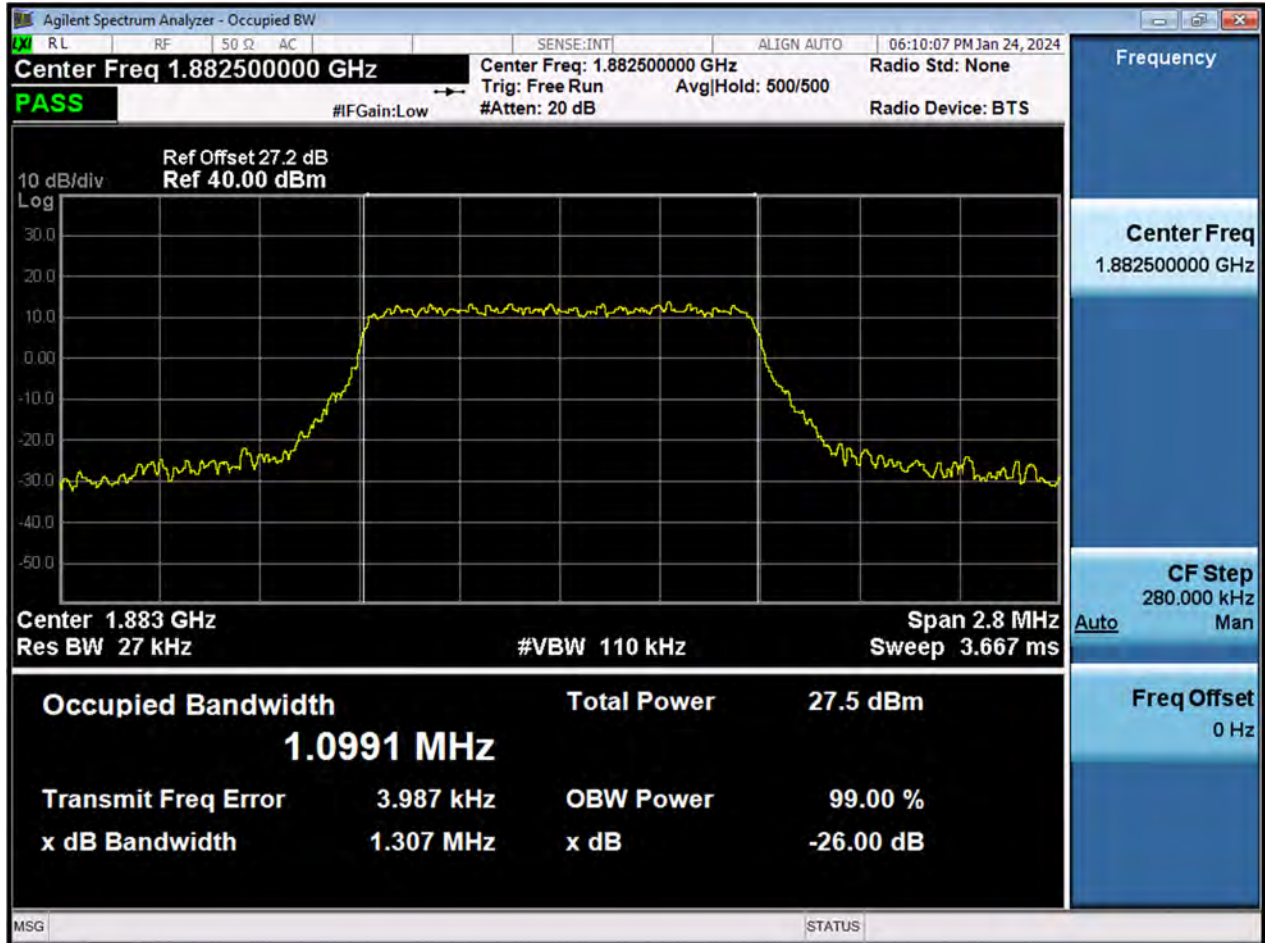




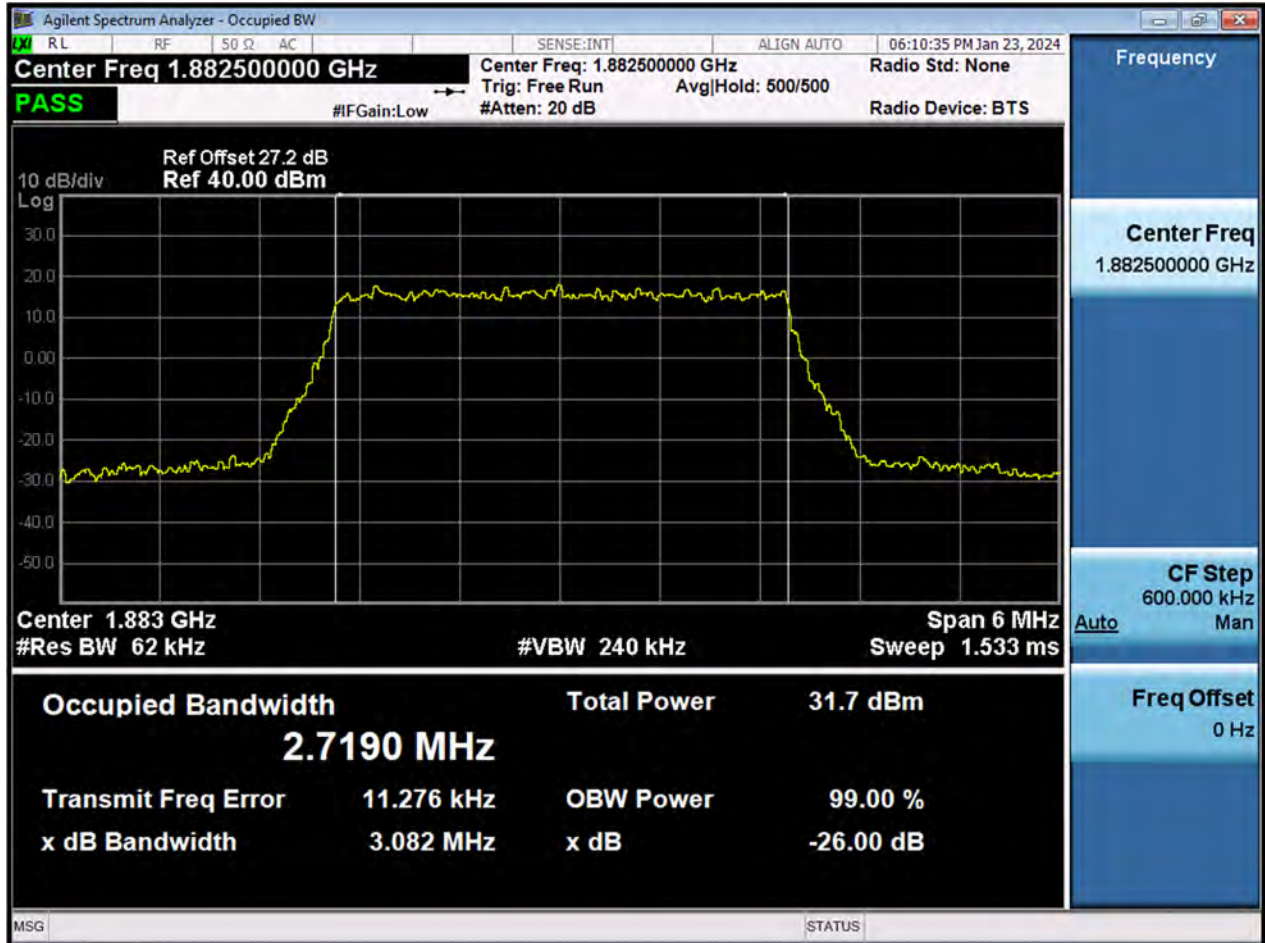
BW1.4 M\_OBW\_Middle Channel\_64QAM\_FullRB



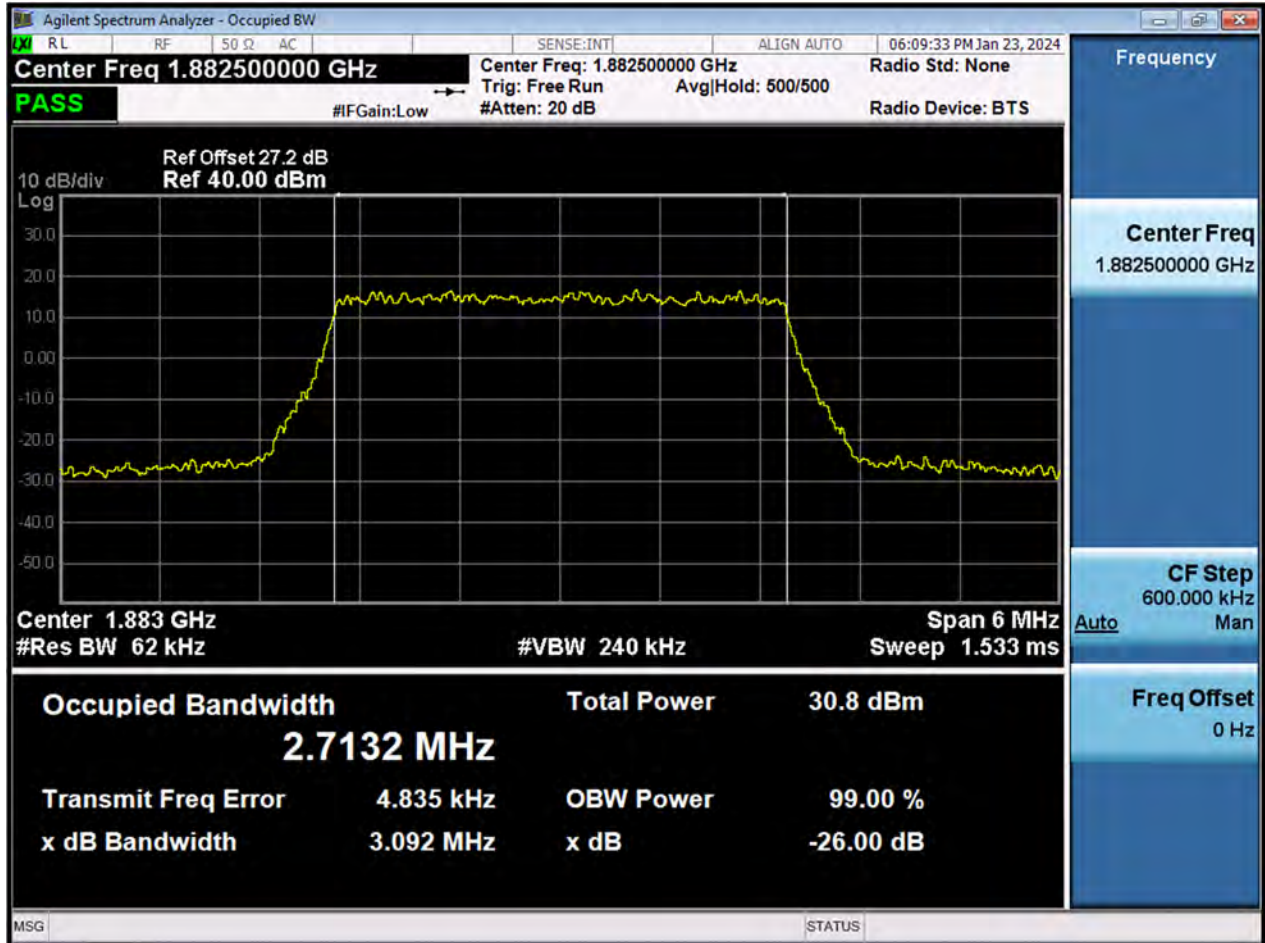
BW1.4 M\_OBW\_Middle Channel\_256QAM\_FullRB



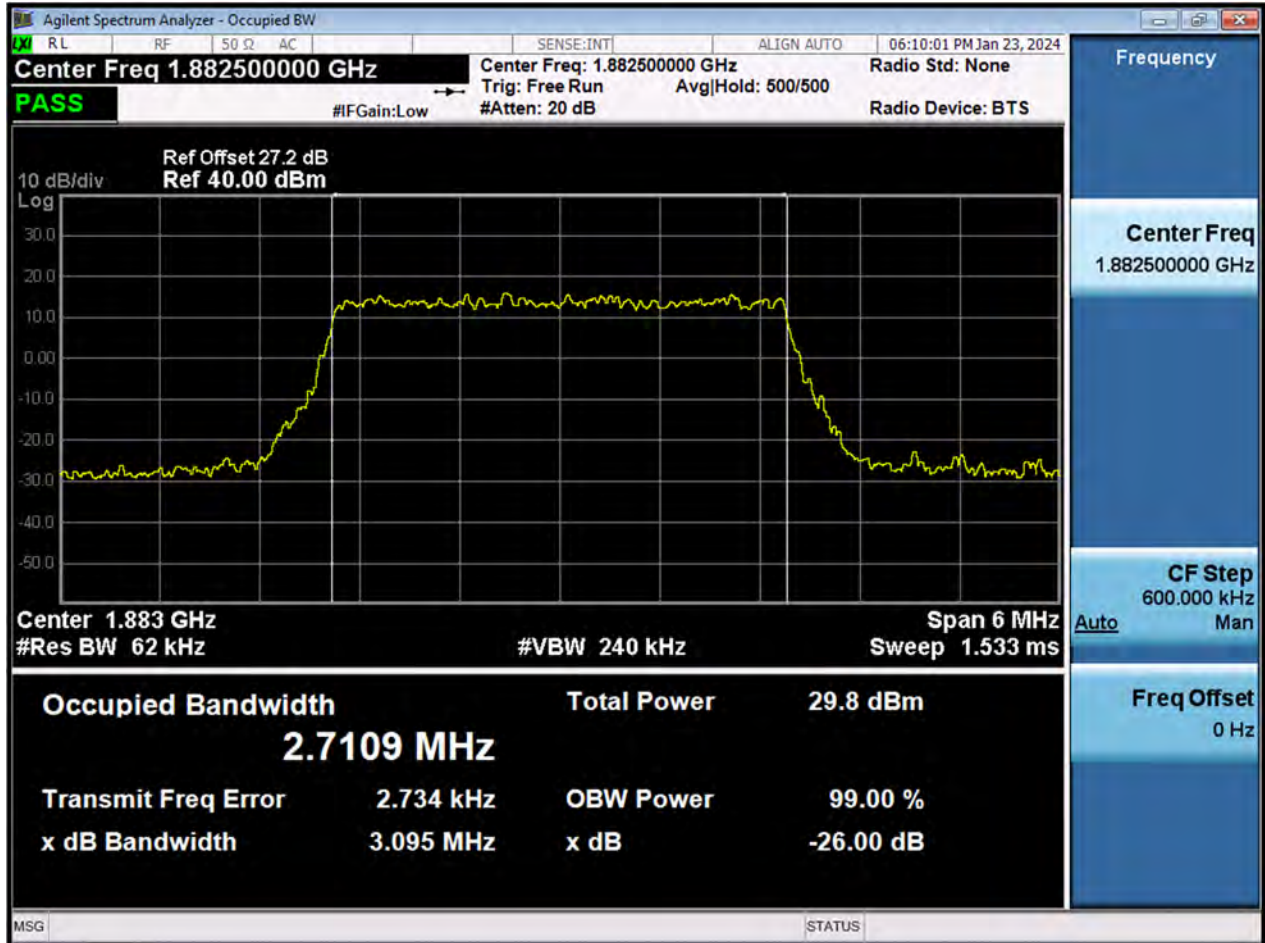
BW3 M\_OBW\_Middle Channel\_QPSK\_FullRB



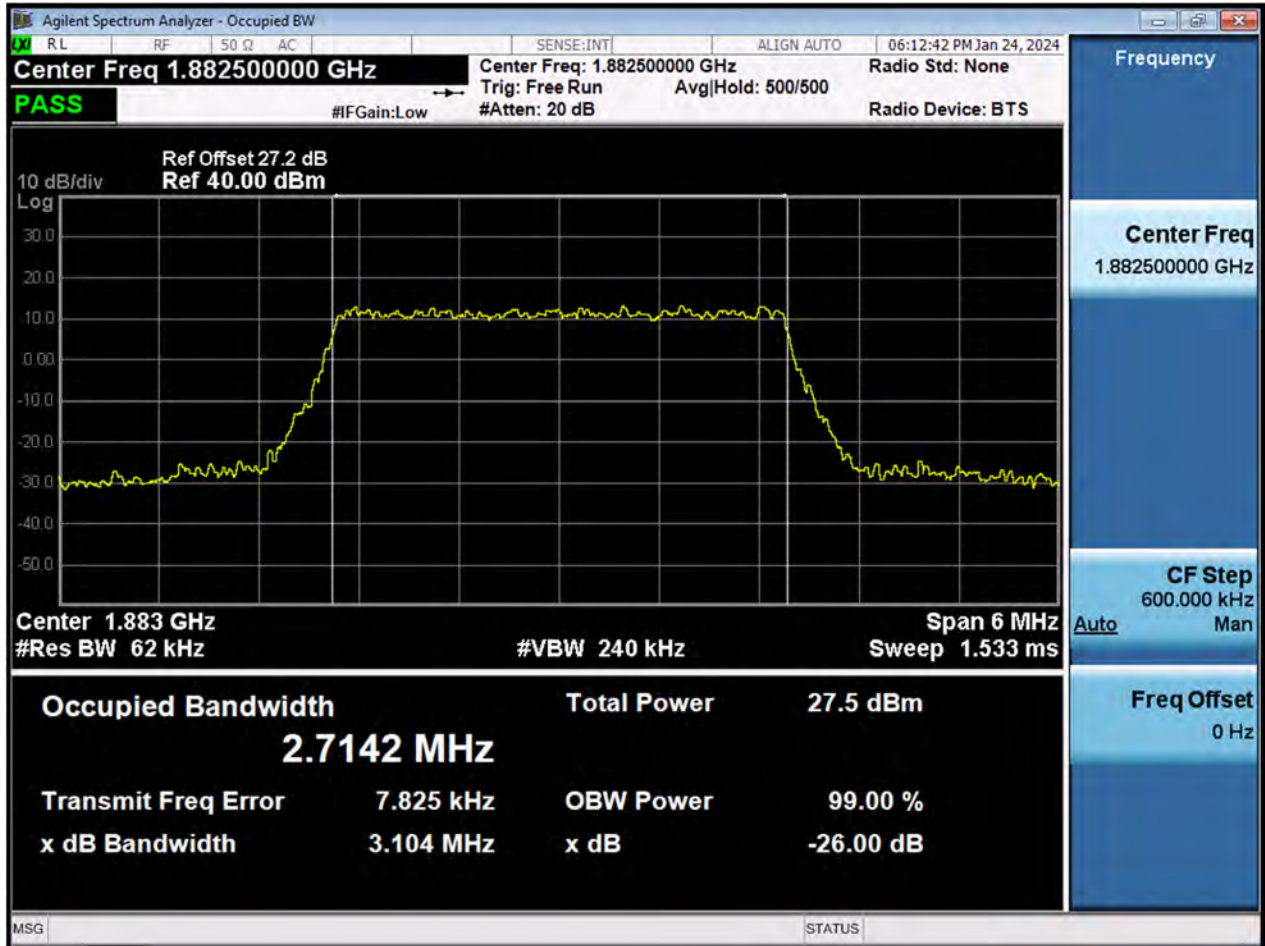
BW3 M\_OBW\_Middle Channel\_16QAM\_FullRB



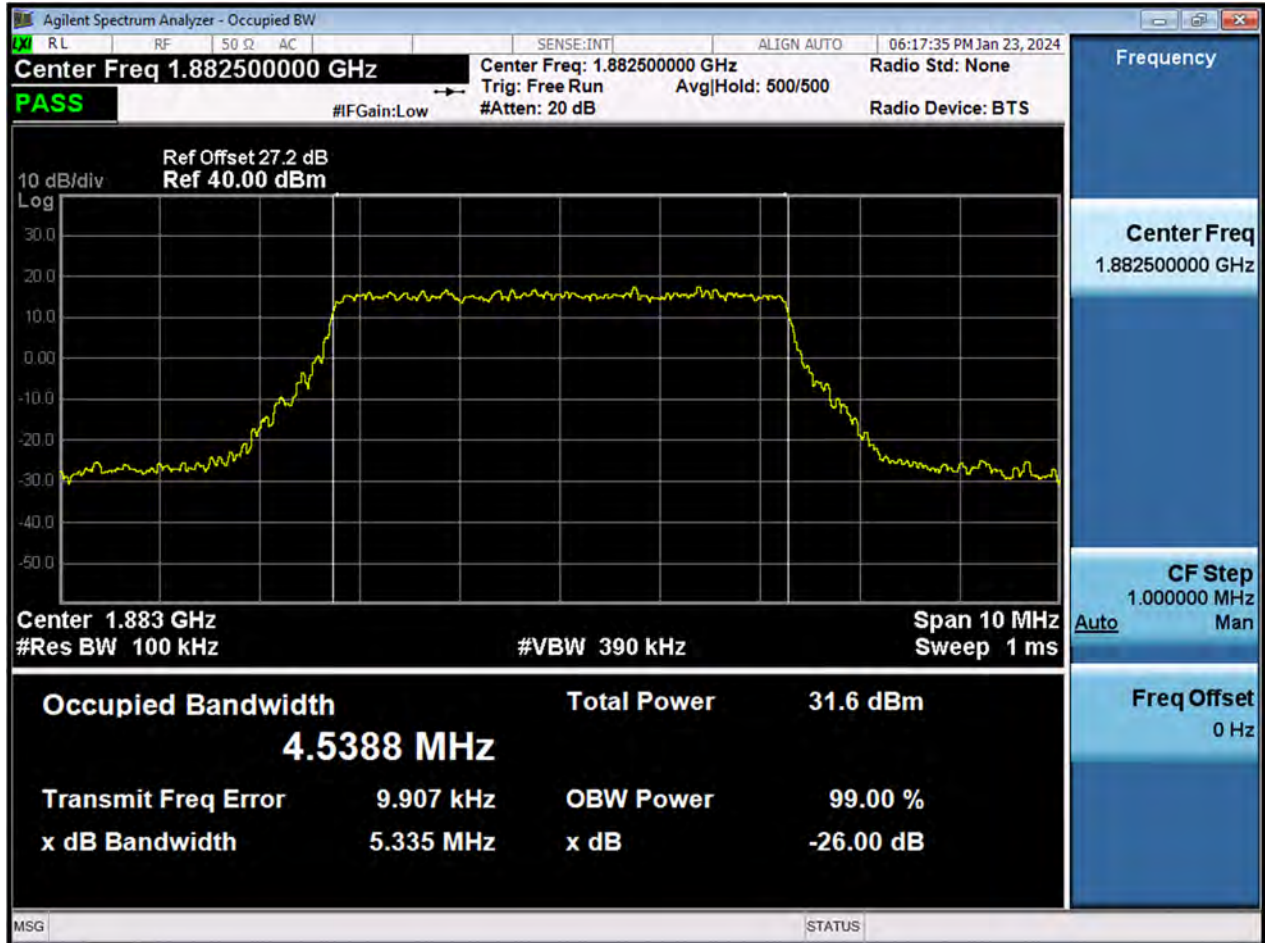
BW3 M\_OBW\_Middle Channel\_64QAM\_FullRB



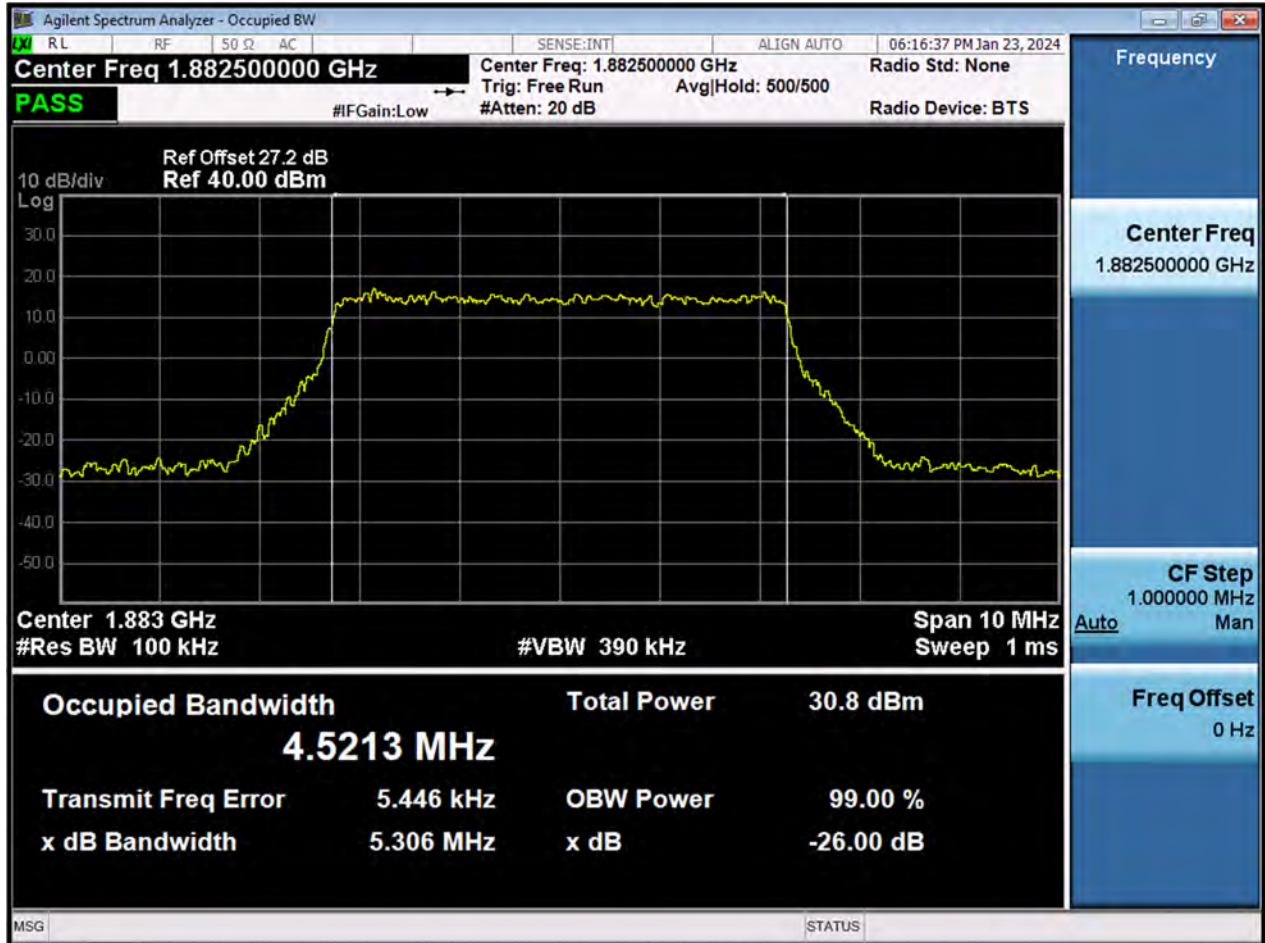
BW3 M\_OBW\_Middle Channel\_256QAM\_FullRB



BW5 M\_OBW\_Middle Channel\_QPSK\_FullRB

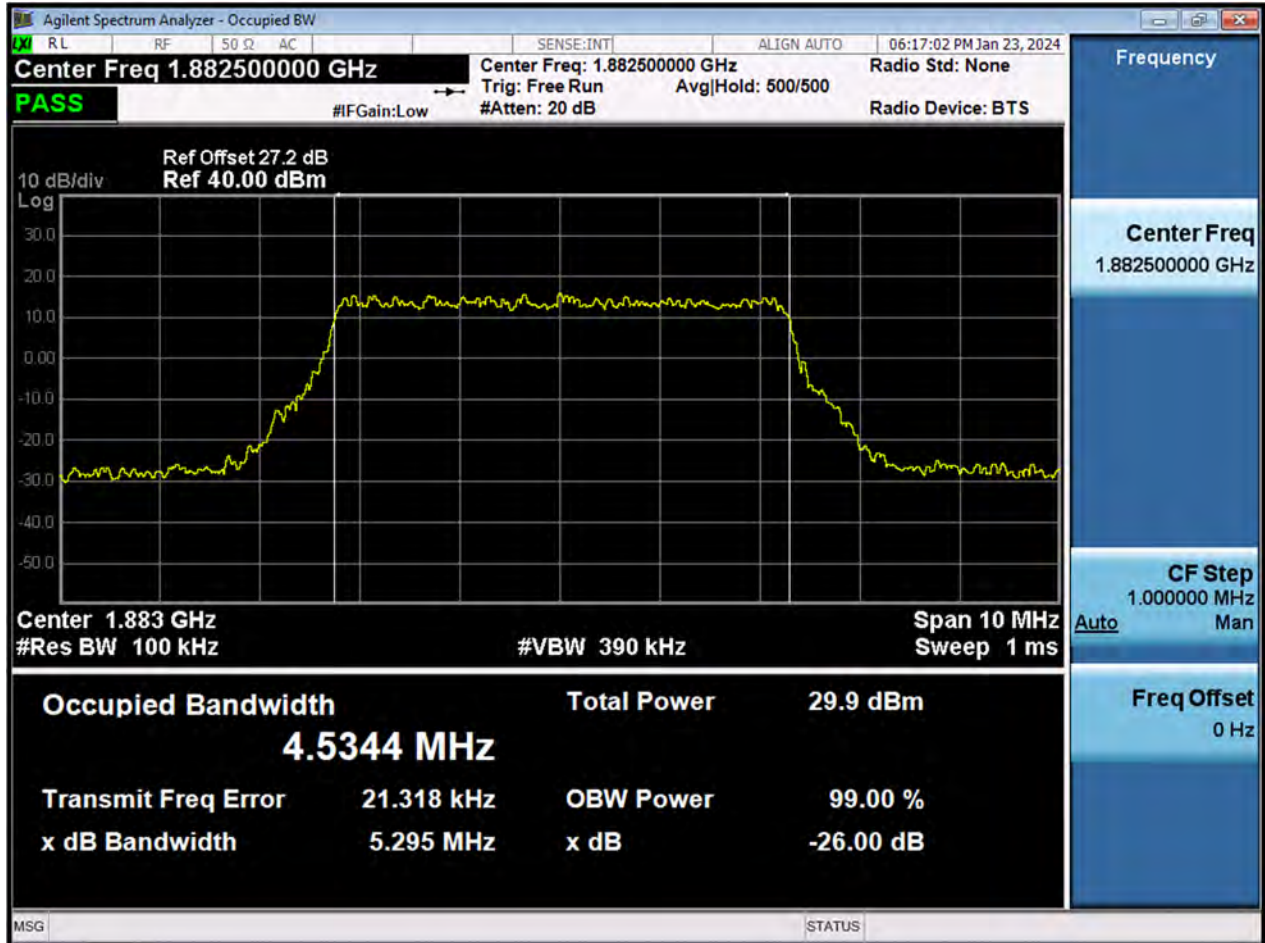


BW5 M\_OBW\_Middle Channel\_16QAM\_FullRB

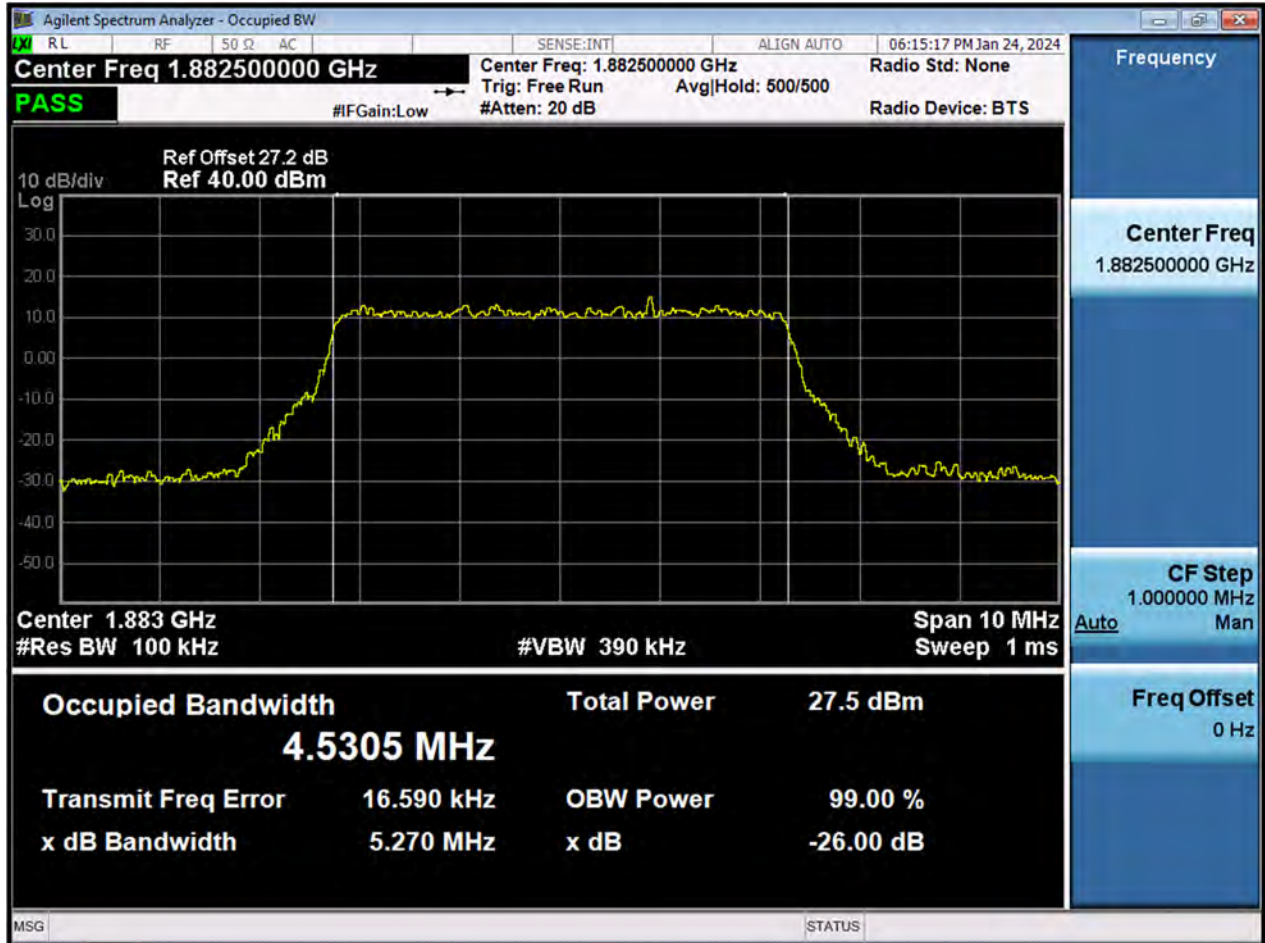




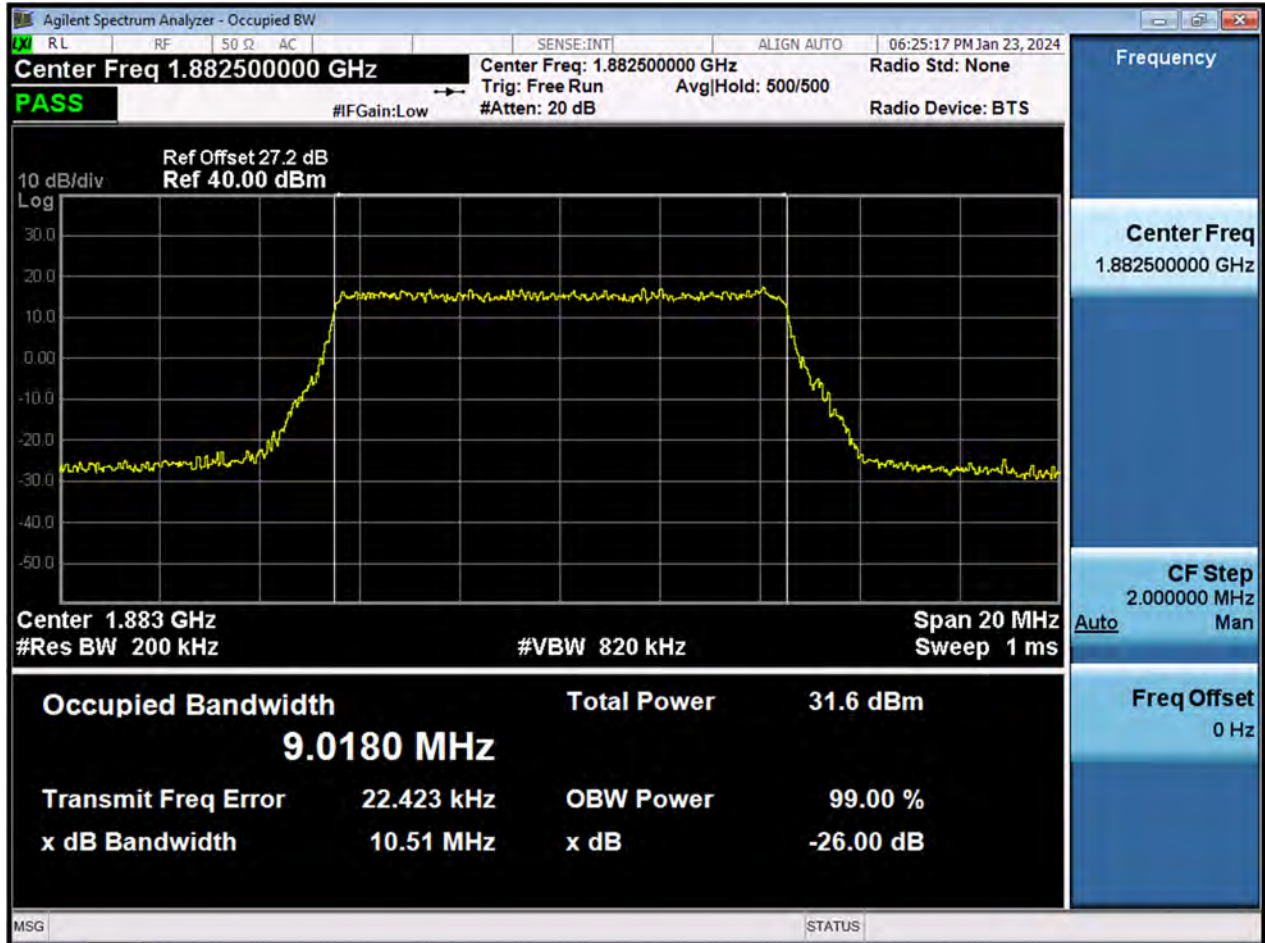
BW5 M\_OBW\_Middle Channel\_64QAM\_FullRB



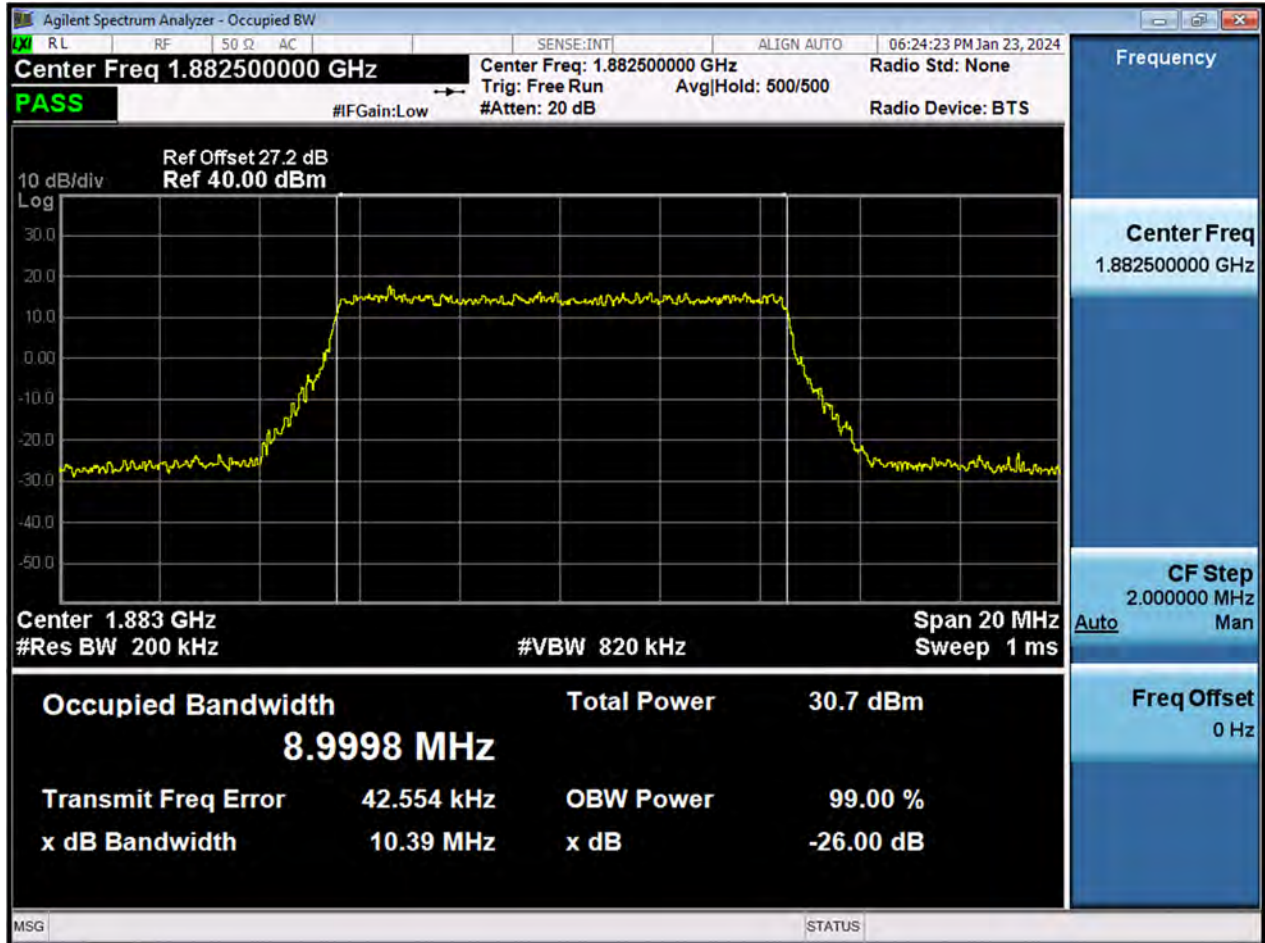
BW5 M\_OBW\_Middle Channel\_256QAM\_FullRB



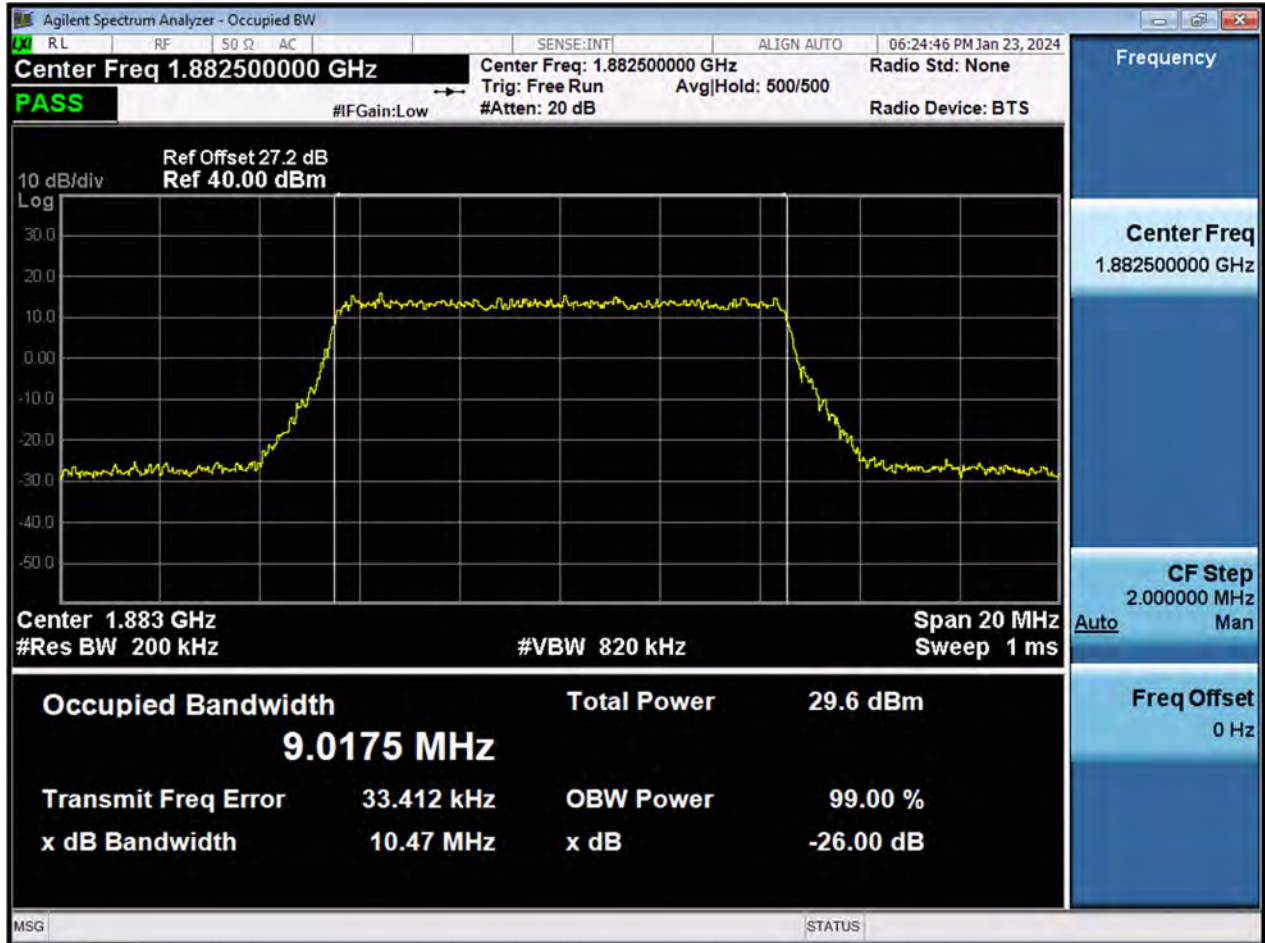
BW10 M\_OBW\_Middle Channel\_QPSK\_FullRB



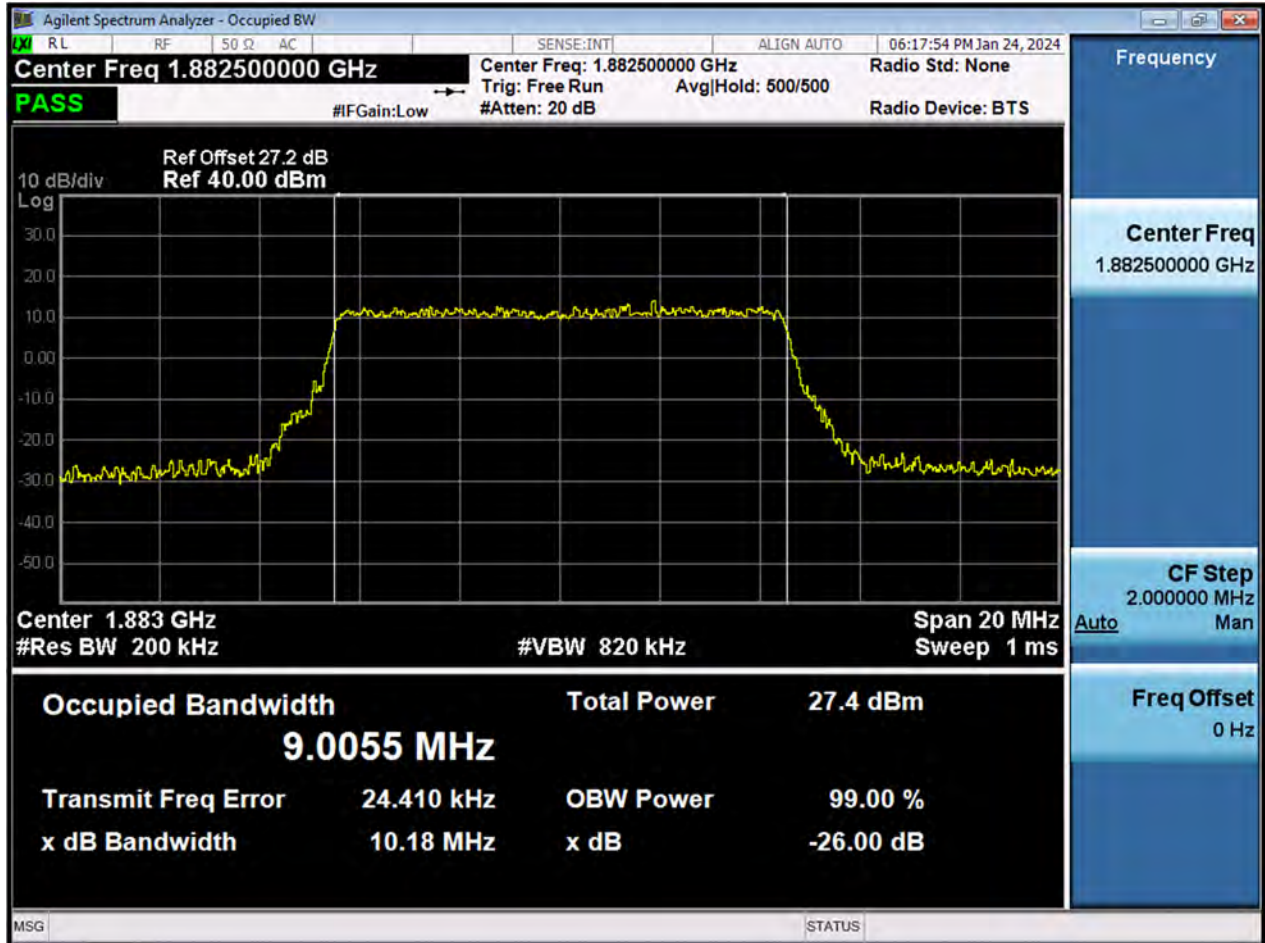
BW10 M\_OBW\_Middle Channel\_16QAM\_FullRB



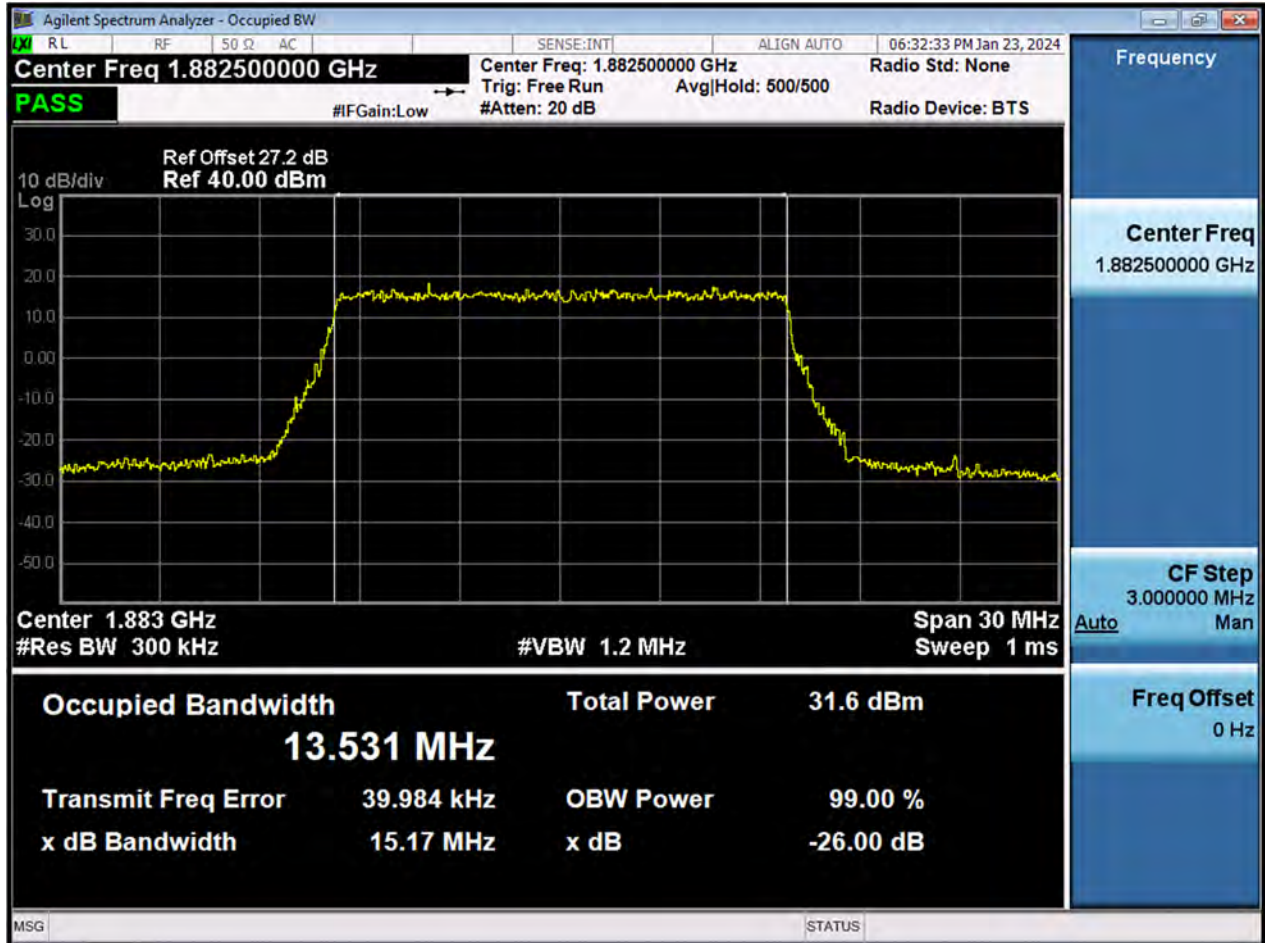
BW10 M\_OBW\_Middle Channel\_64QAM\_FullRB



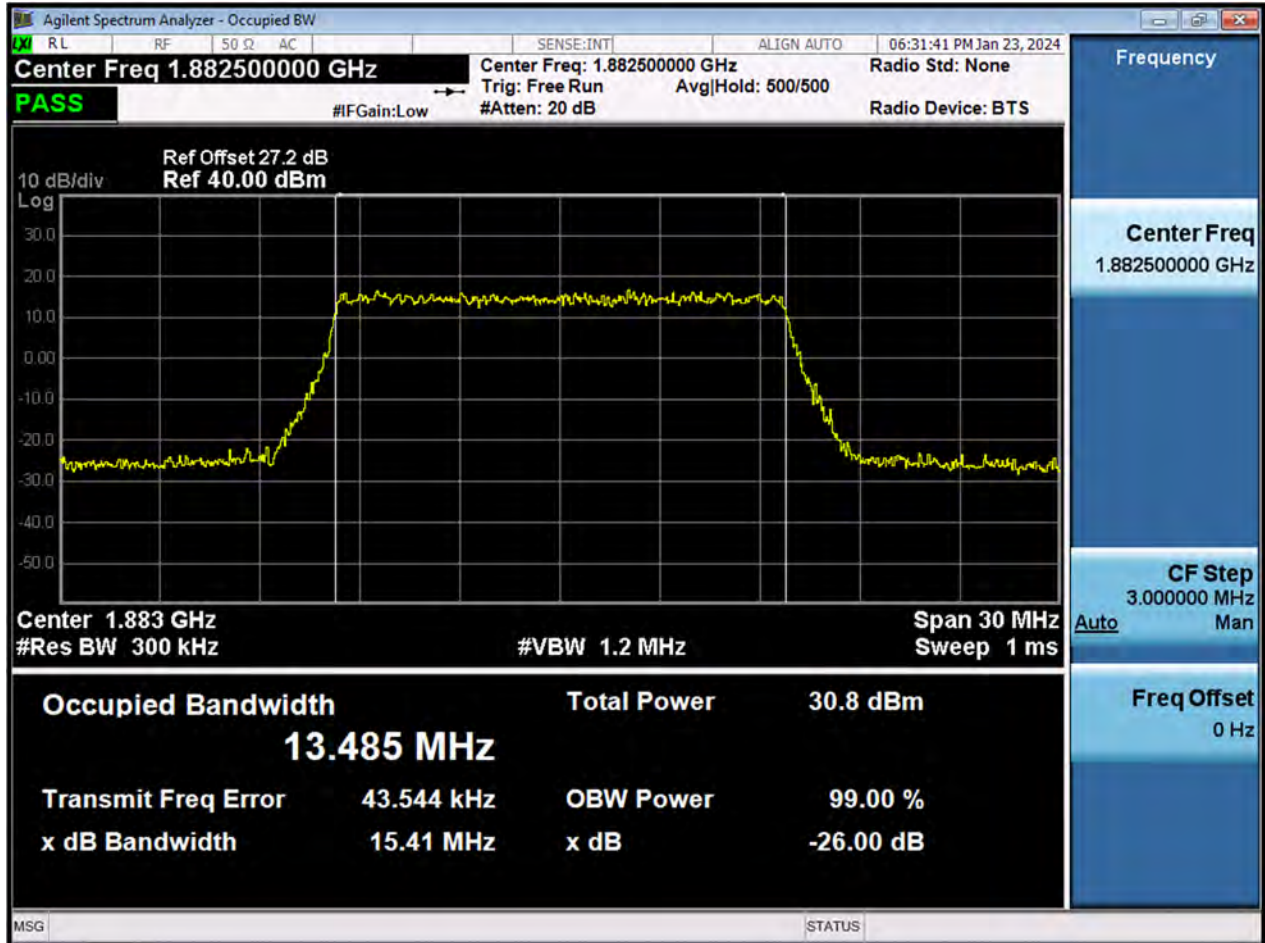
BW10 M\_OBW\_Middle Channel\_256QAM\_FullRB



## BW15 M\_OBW\_Middle Channel\_QPSK\_FullRB

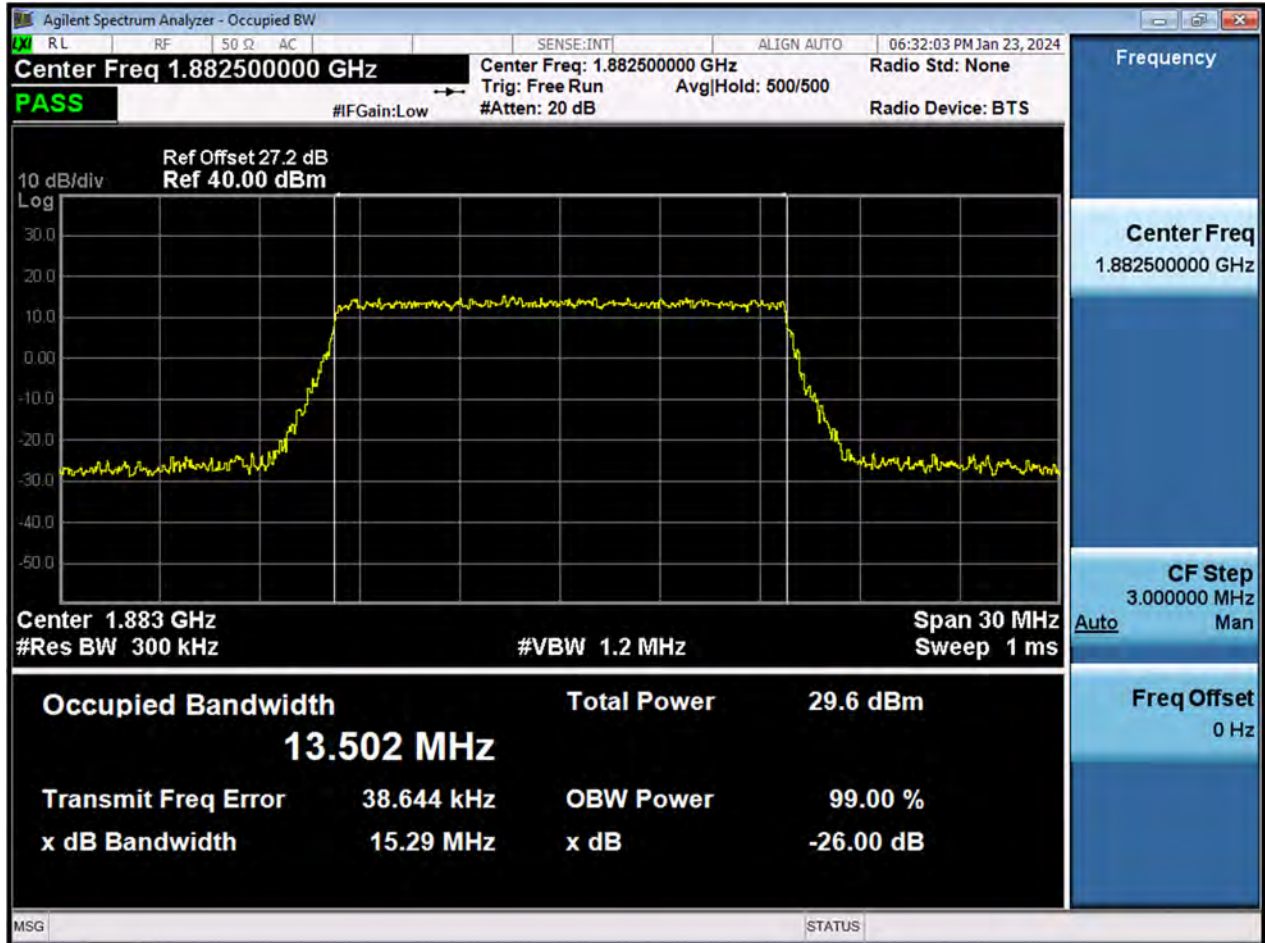


BW15 M\_OBW\_Middle Channel\_16QAM\_FullRB

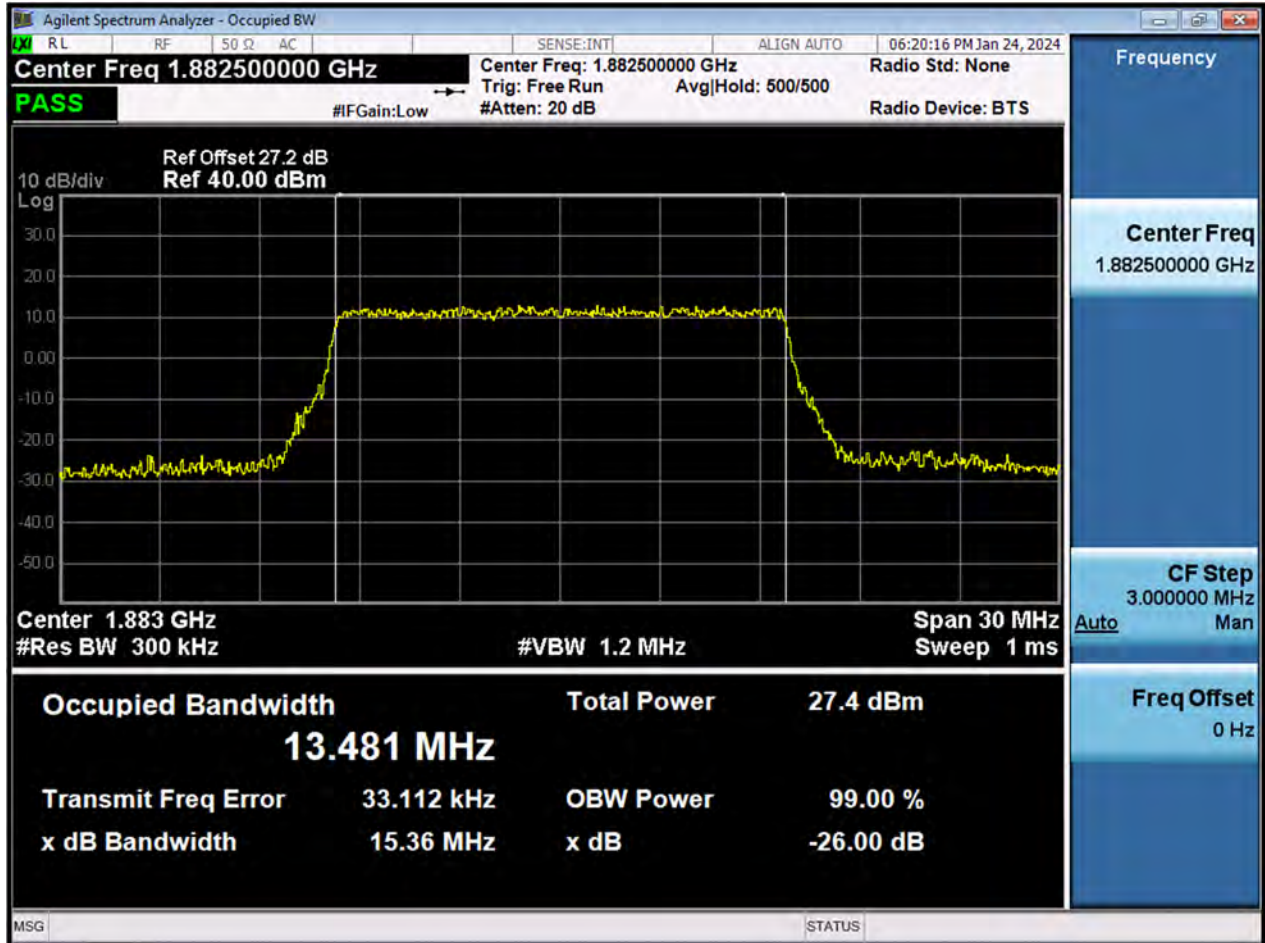




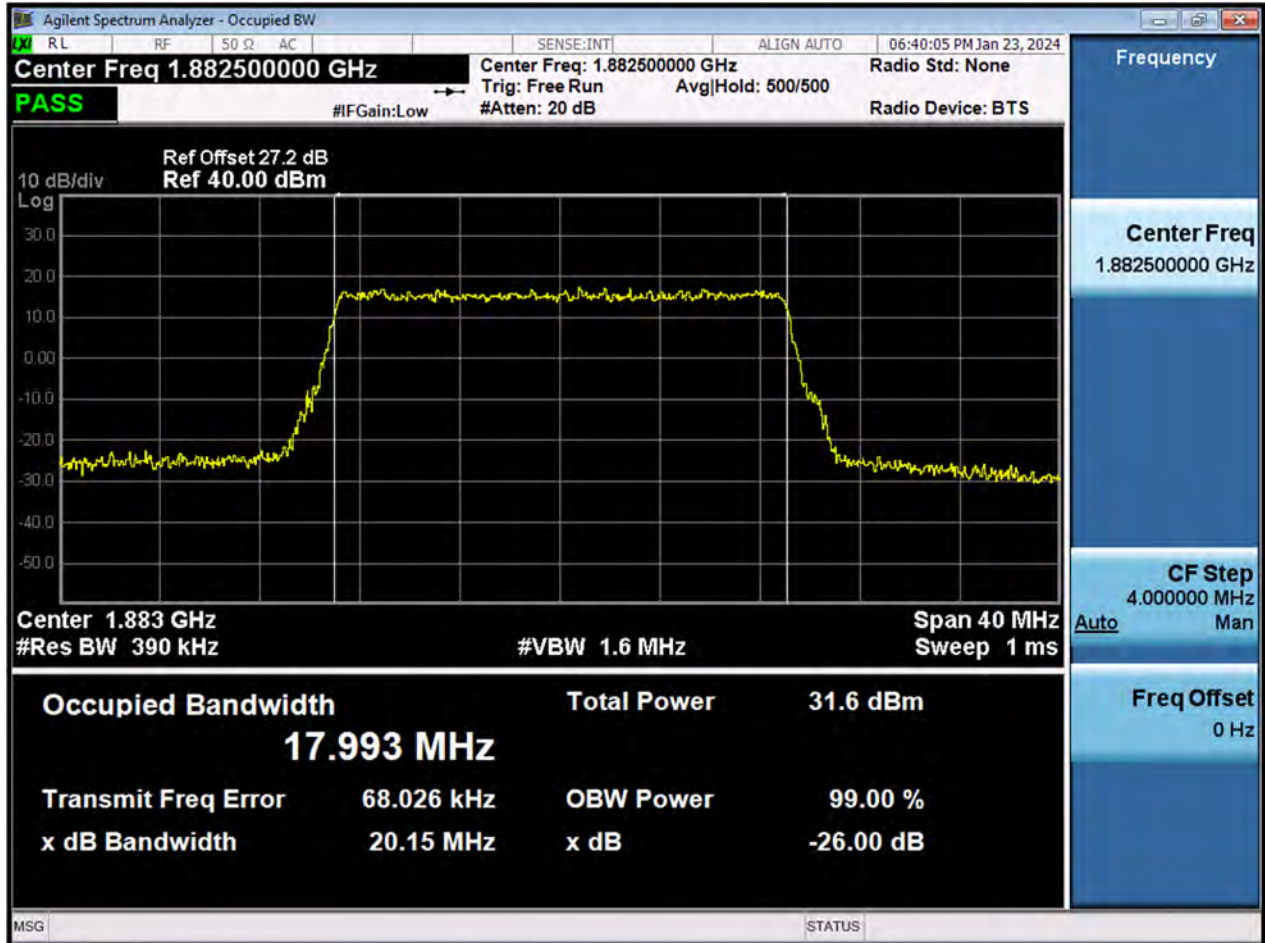
BW15 M\_OBW\_Middle Channel\_64QAM\_FullRB



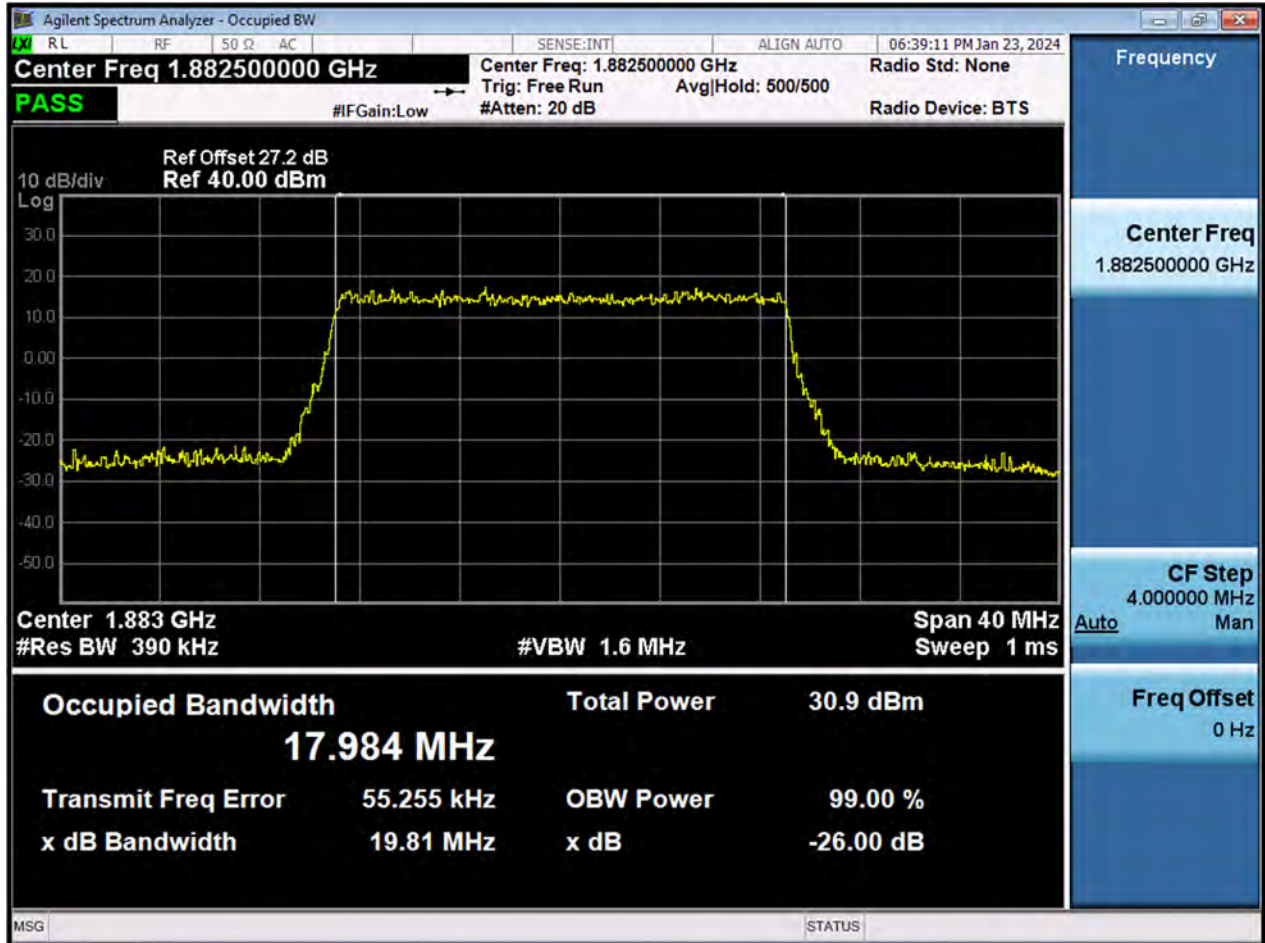
BW15 M\_OBW\_Middle Channel\_256QAM\_FullRB



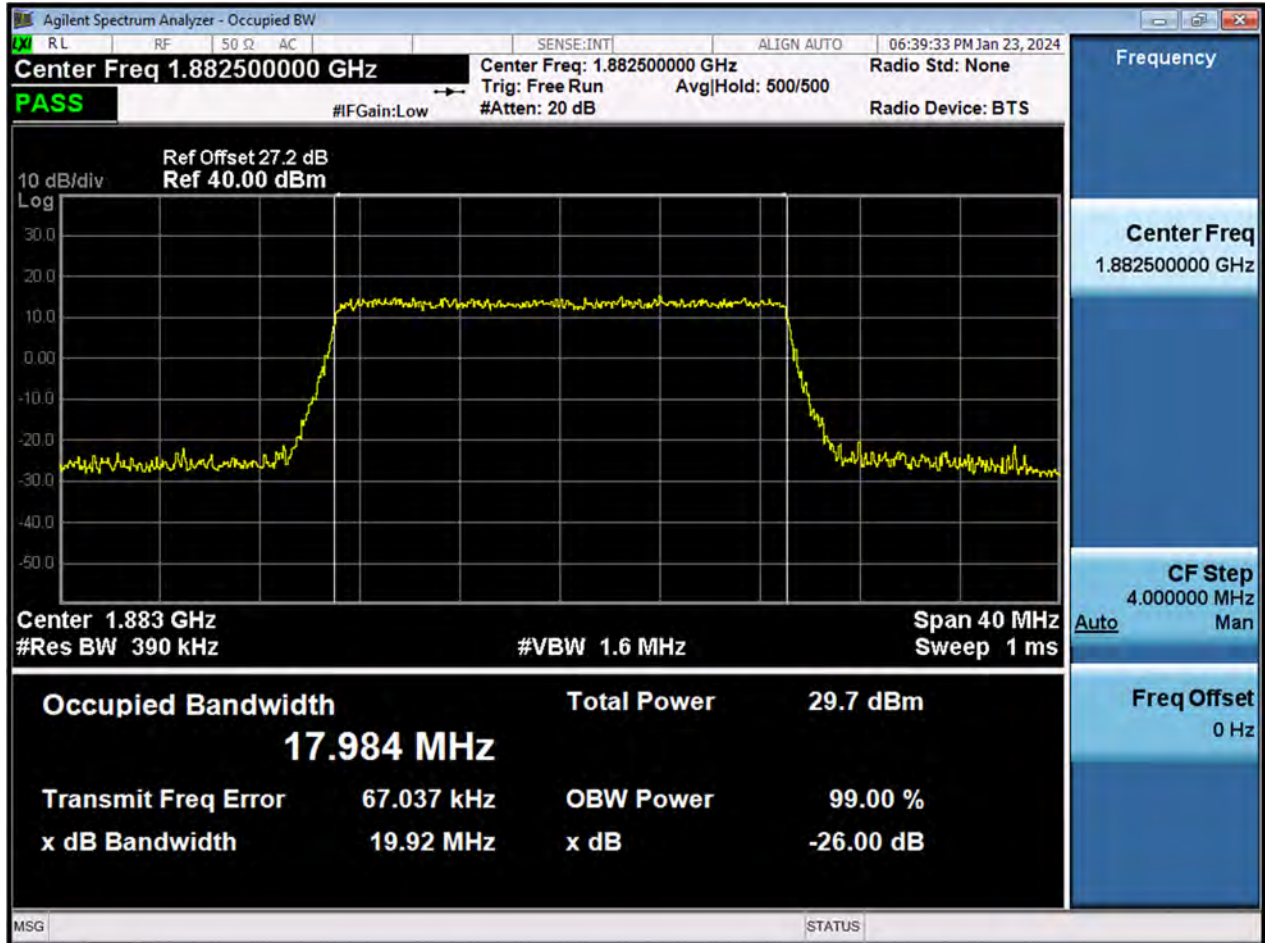
BW20 M\_OBW\_Middle Channel\_QPSK\_FullRB



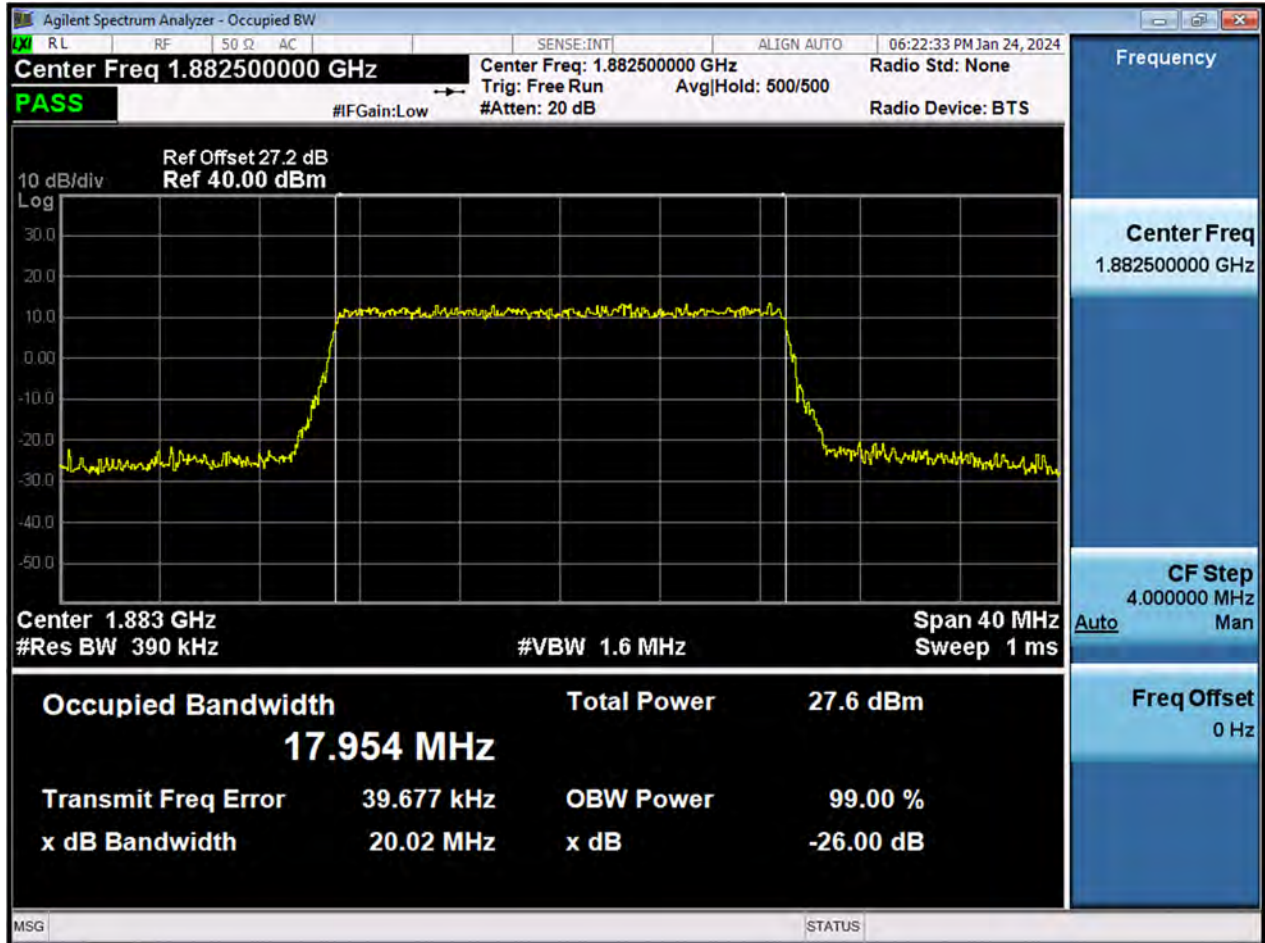
BW20 M\_OBW\_Middle Channel\_16QAM\_FullRB



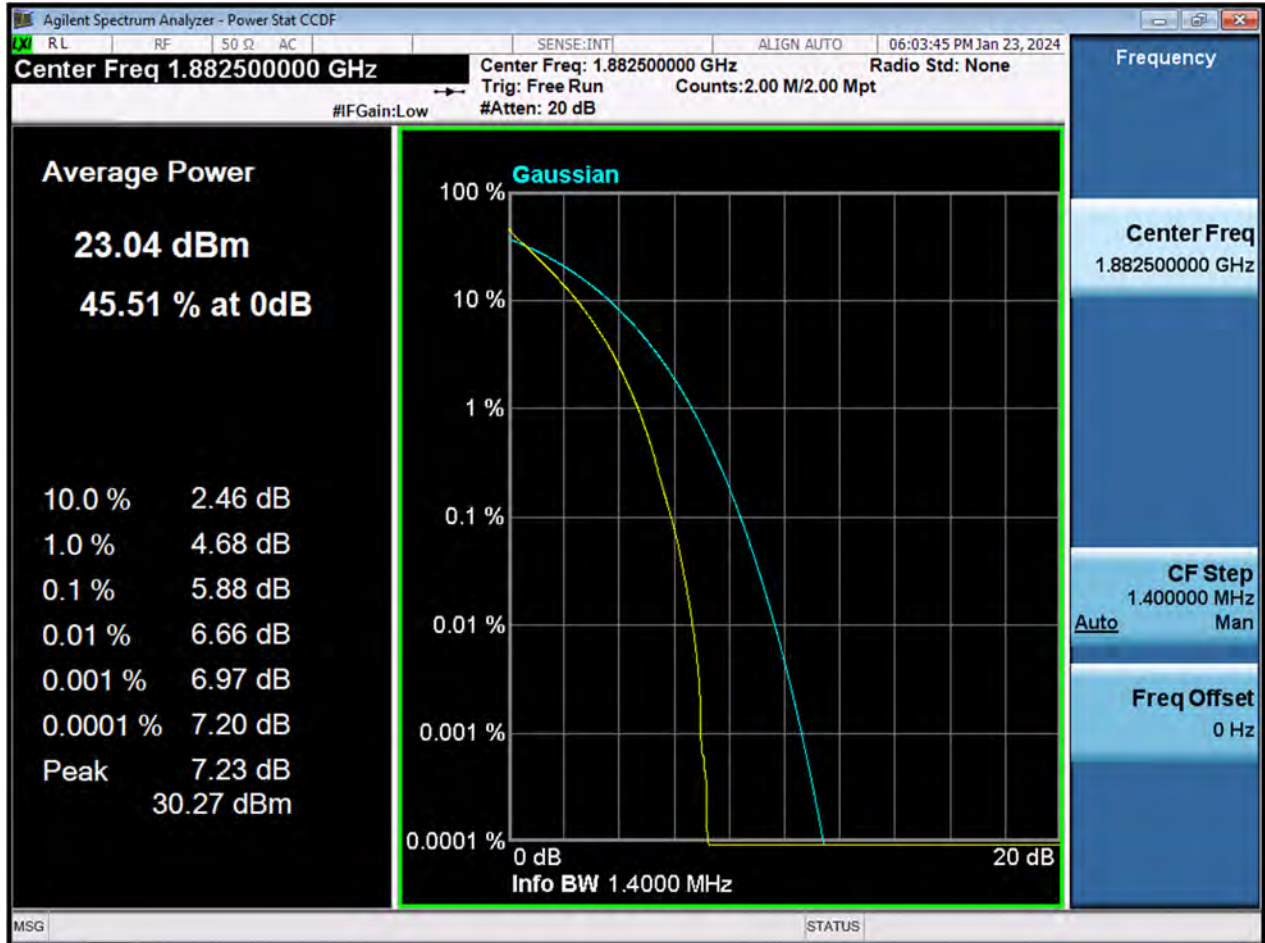
BW20 M\_OBW\_Middle Channel\_64QAM\_FullRB



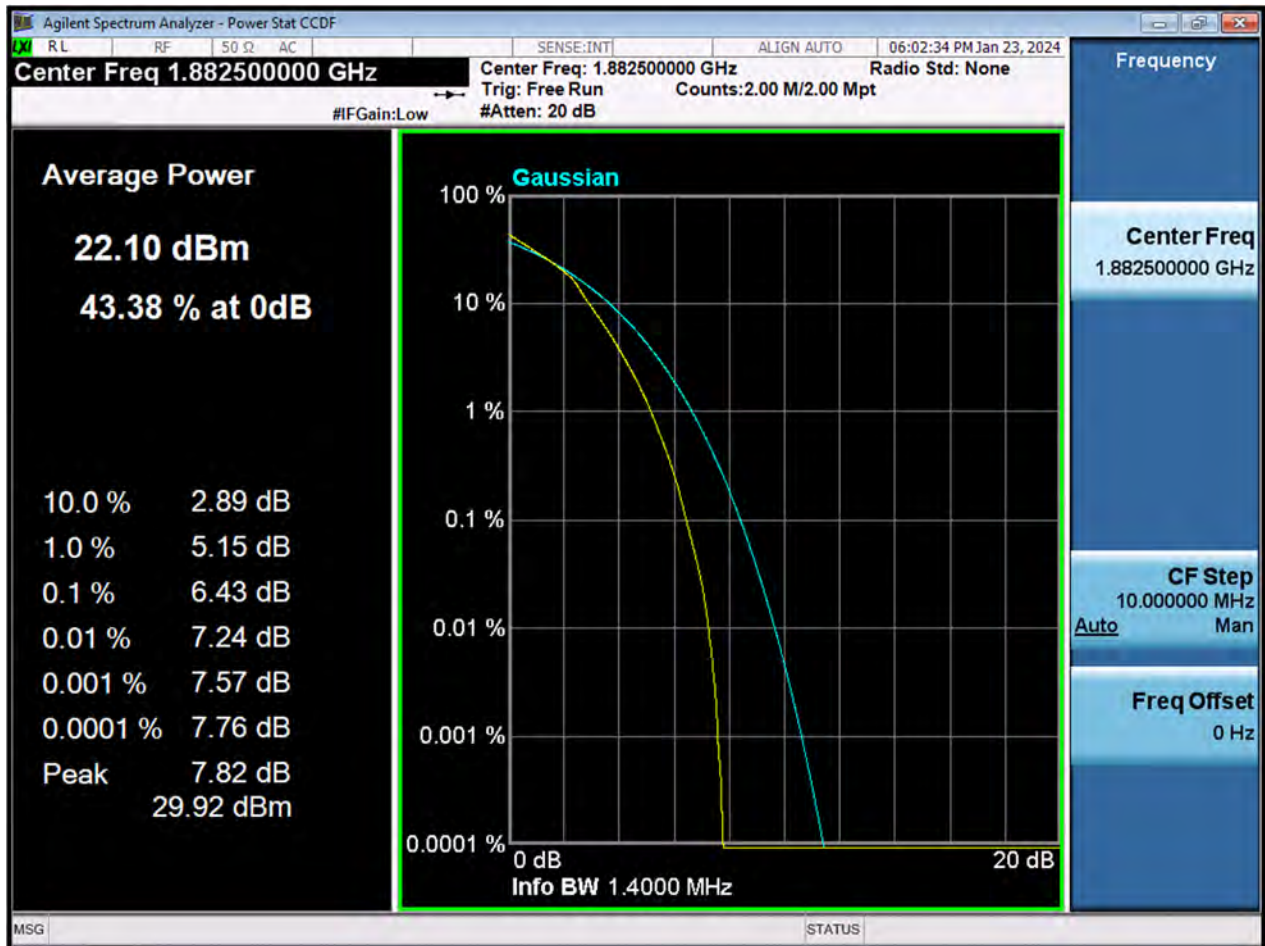
BW20 M\_OBW\_Middle Channel\_256QAM\_FullRB



BW1.4 M\_PAR\_Middle Channel\_QPSK\_FullRB

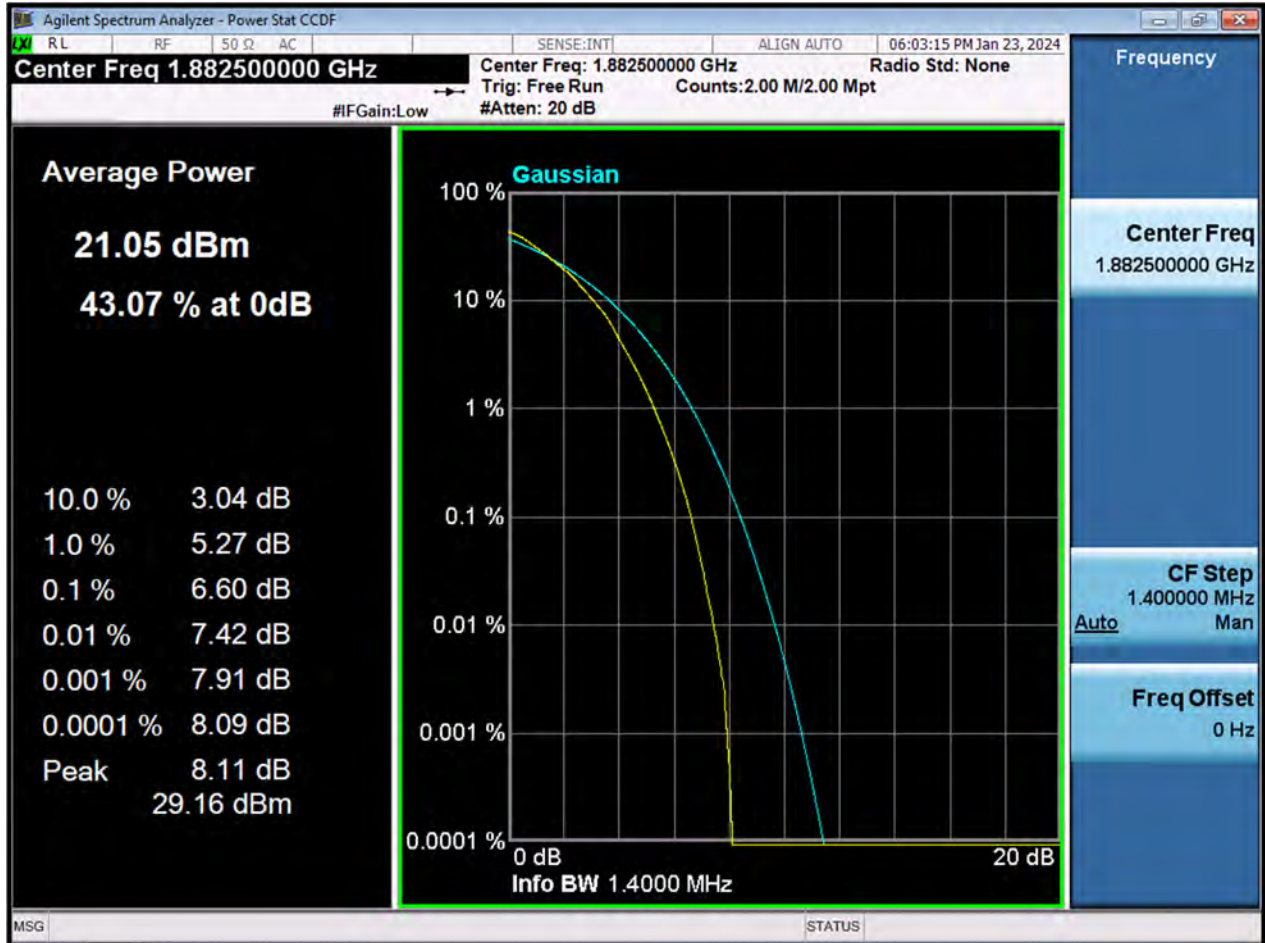


BW1.4 M\_PAR\_Middle Channel\_16QAM\_FullRB

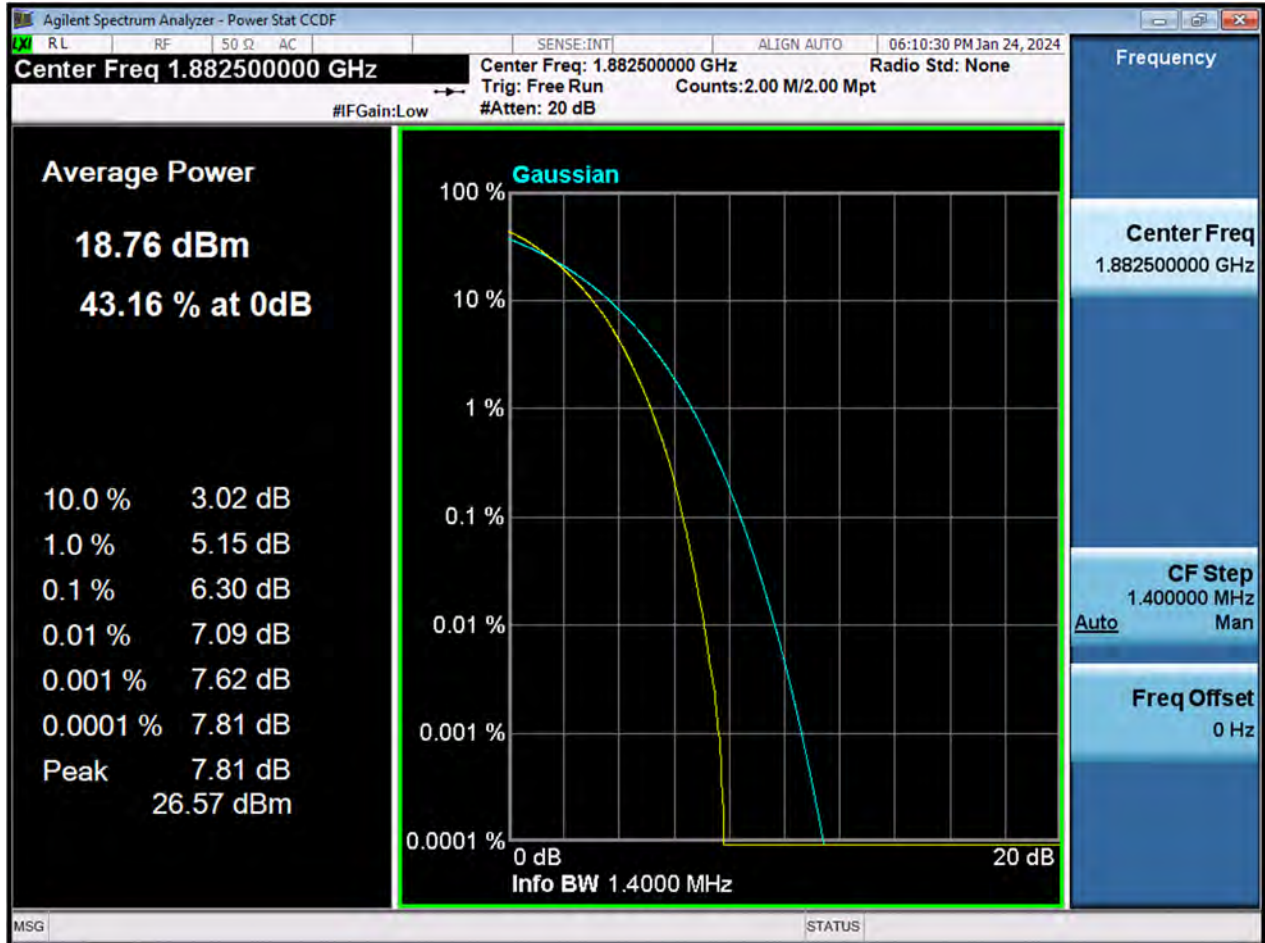




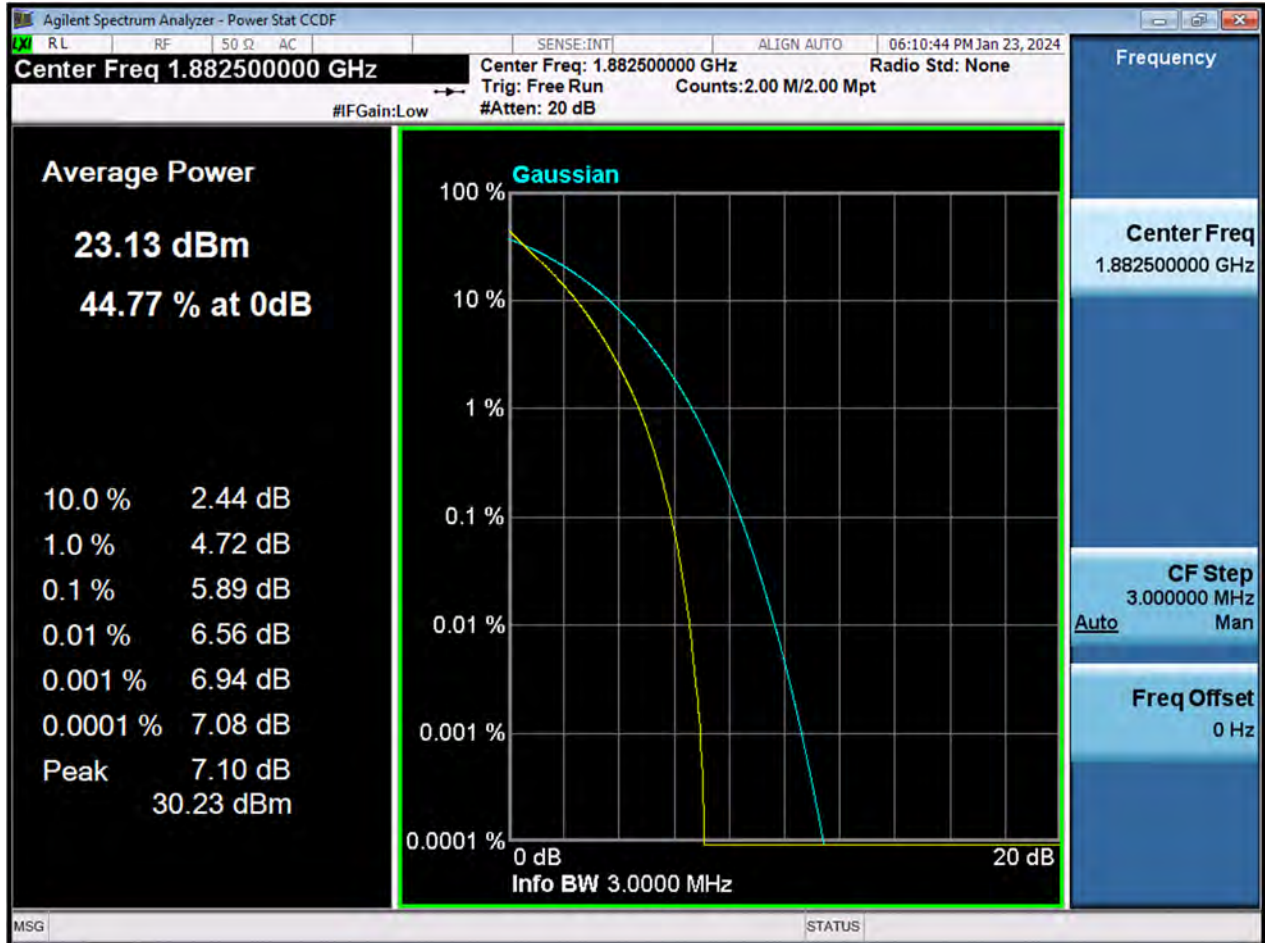
BW1.4 M\_PAR\_Middle Channel\_64QAM\_FullRB



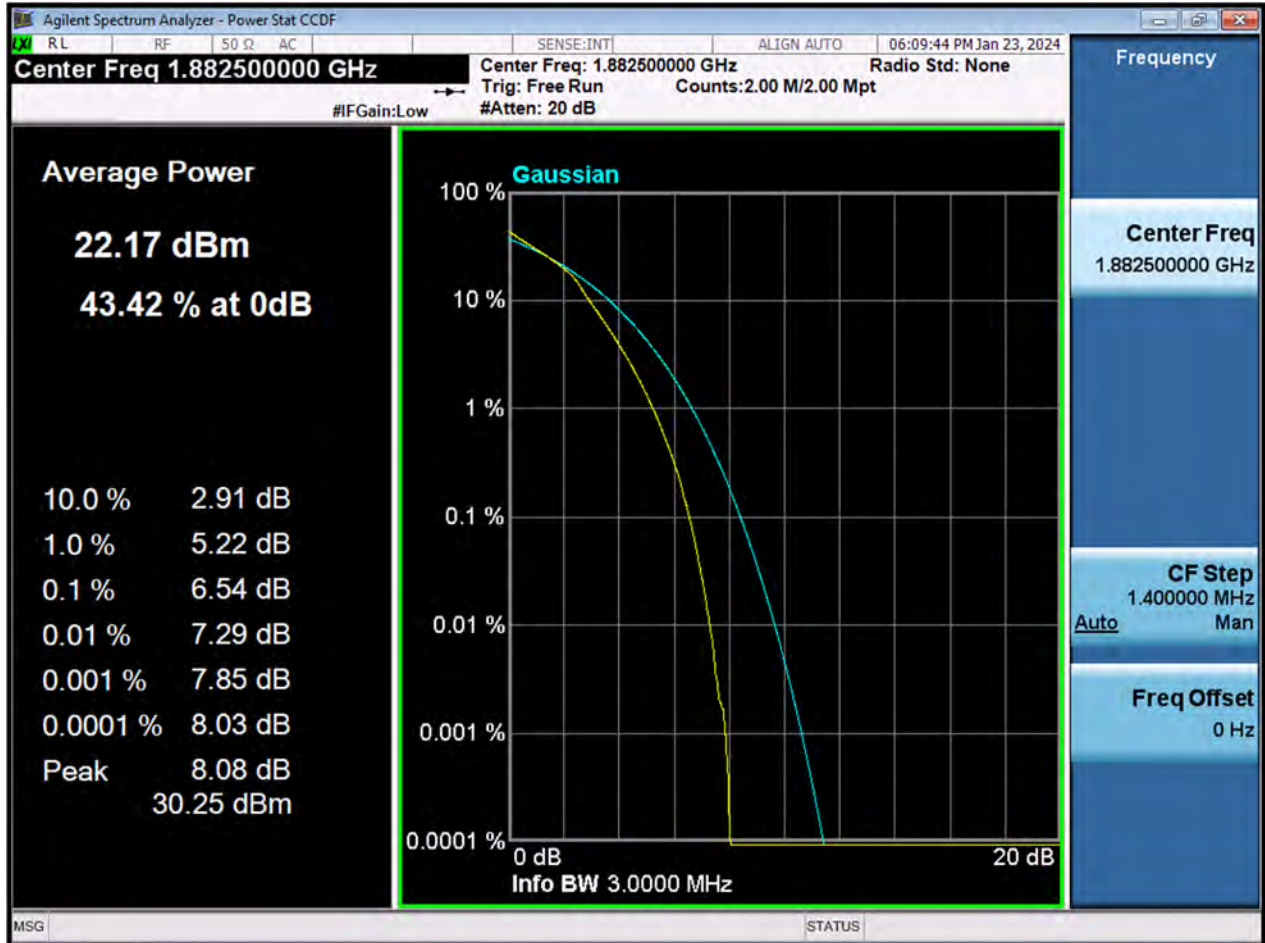
BW1.4 M\_PAR\_Middle Channel\_256QAM\_FullRB



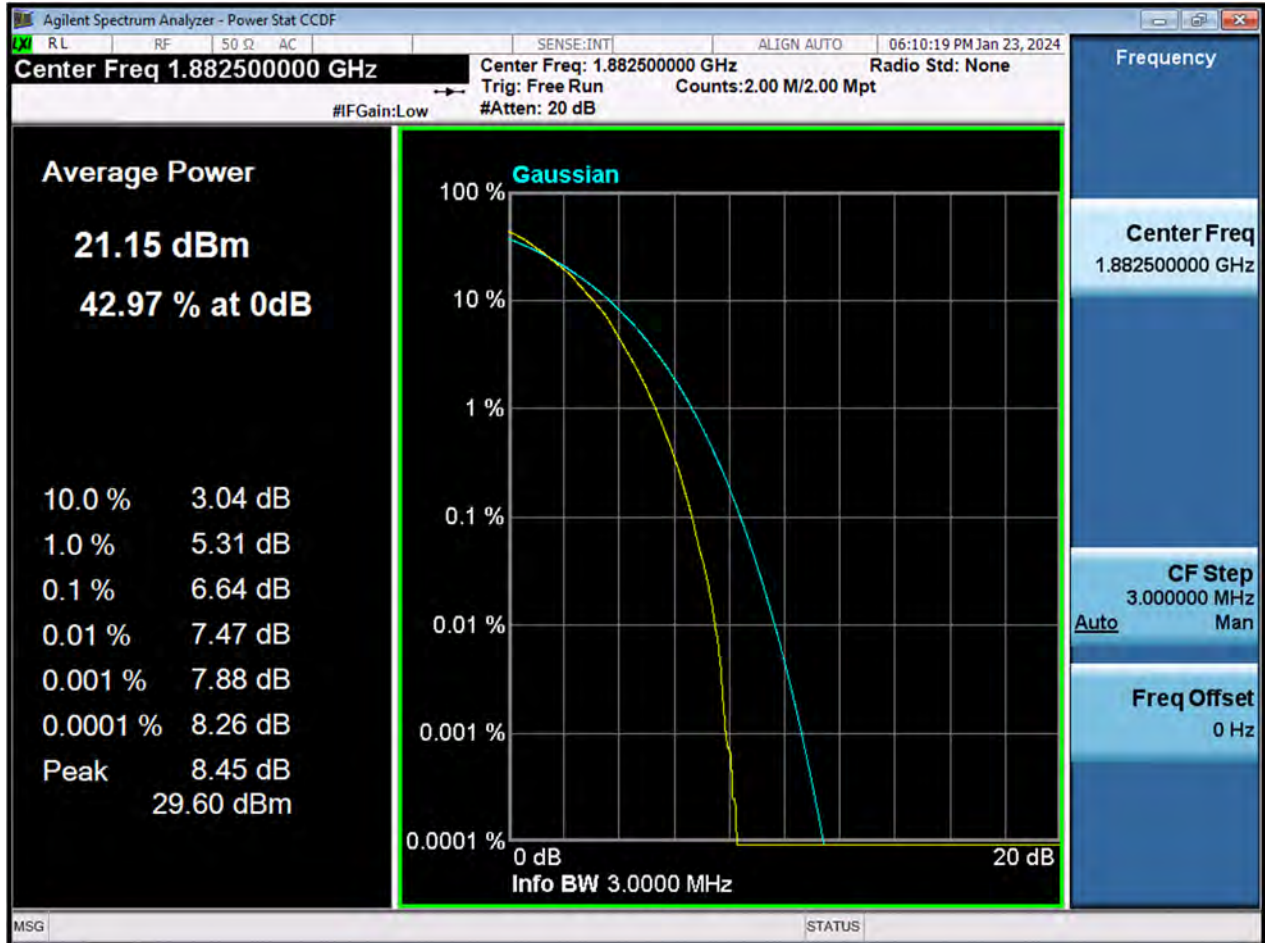
BW3 M\_PAR\_Middle Channel\_QPSK\_FullRB



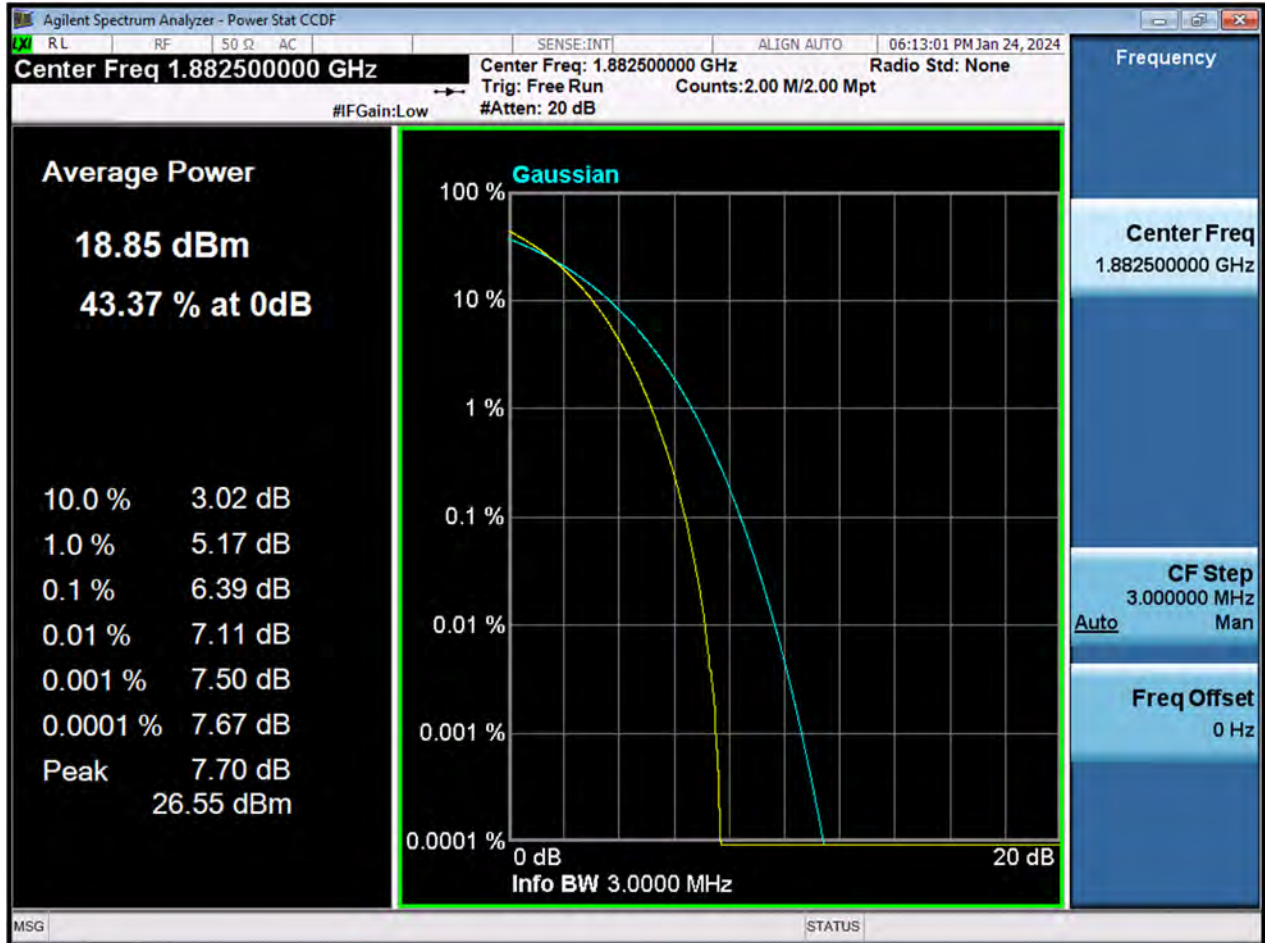
BW3 M\_PAR\_Middle Channel\_16QAM\_FullRB



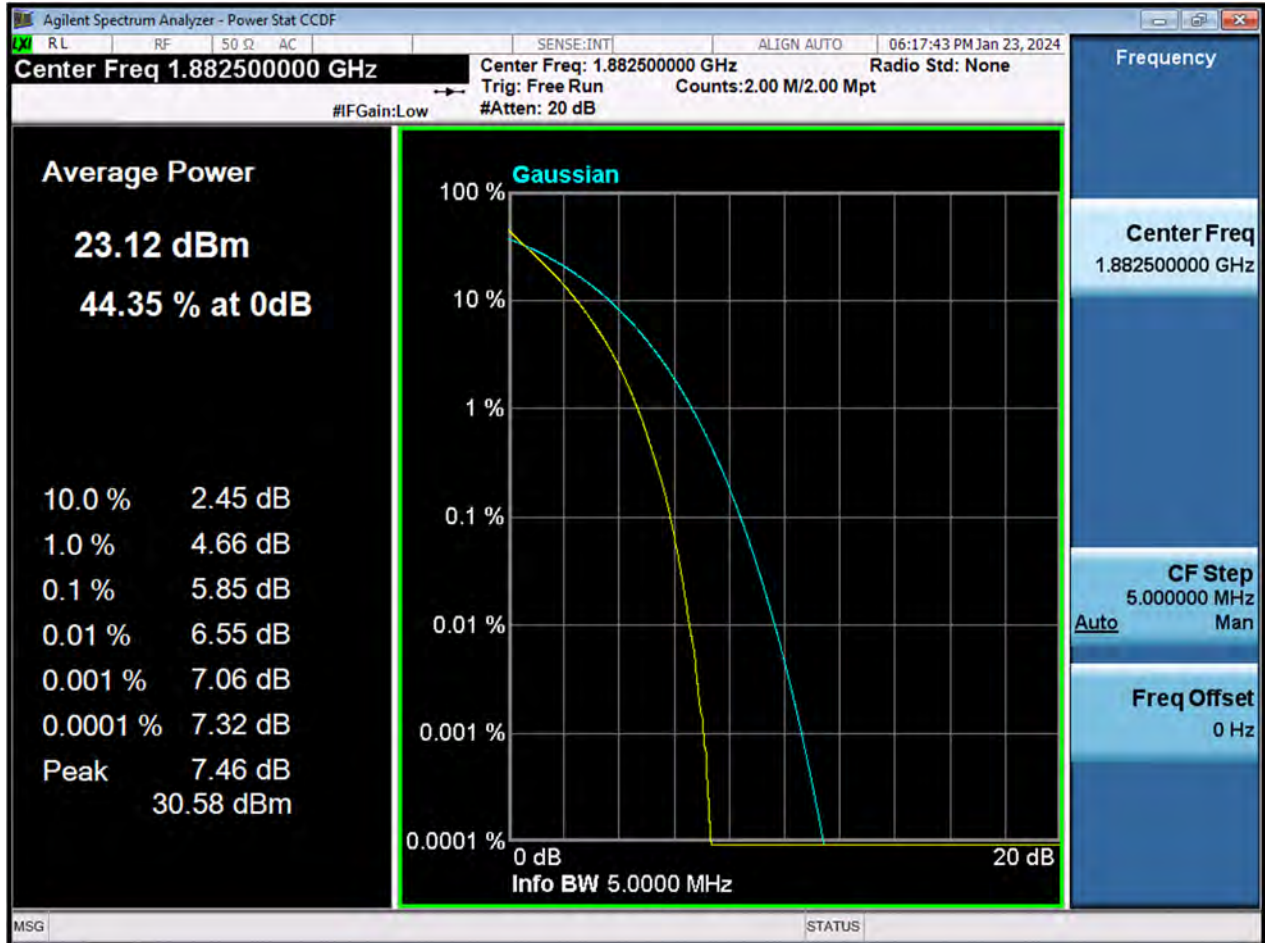
BW3 M\_PAR\_Middle Channel\_64QAM\_FullRB



BW3 M\_PAR\_Middle Channel\_256QAM\_FullIRB



BW5 M\_PAR\_Middle Channel\_QPSK\_FullRB



BW5 M\_PAR\_Middle Channel\_16QAM\_FullRB

