

# FCC LTE REPORT

## Certification

**Applicant Name:**  
 SAMSUNG Electronics Co., Ltd.

**Date of Issue:**  
 February 25, 2021

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

**Location:**  
 HCT CO., LTD.,  
 74, Seoicheon-ro 578beon-gil, Majang-myeon,  
 Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA  
**Report No.:** HCT-RF-2102-FC042

**FCC ID:** A3LSM A526U

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

Model(s): SM-A526U  
 Additional Model(s): SM-A526U1  
 EUT Type: Mobile Phone  
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)  
 FCC Rule Part(s): §24, §2

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
LTE – Band25/2 (1.4)	1850.7 - 1914.3	1M09G7D	QPSK	0.217	23.37
		1M09W7D	16QAM	0.191	22.82
		1M09W7D	64QAM	0.146	21.65
LTE – Band25/2 (3)	1851.5 - 1913.5	2M71G7D	QPSK	0.218	23.39
		2M70W7D	16QAM	0.188	22.73
		2M70W7D	64QAM	0.146	21.65
LTE – Band25/2 (5)	1852.5 - 1912.5	4M51G7D	QPSK	0.211	23.25
		4M51W7D	16QAM	0.182	22.60
		4M52W7D	64QAM	0.143	21.54
LTE – Band25/2 (10)	1855.0 - 1910.0	8M98G7D	QPSK	0.209	23.19
		8M99W7D	16QAM	0.181	22.57
		9M01W7D	64QAM	0.143	21.54
LTE – Band25/2 (15)	1857.5 - 1907.5	13M5G7D	QPSK	0.208	23.19
		13M5W7D	16QAM	0.184	22.65
		13M5W7D	64QAM	0.140	21.47
LTE – Band25/2 (20)	1860.0 - 1905.0	18M0G7D	QPSK	0.214	23.31
		17M9W7D	16QAM	0.185	22.68
		18M0W7D	64QAM	0.144	21.59

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)

## REVIEWED BY



Report prepared by : Jae Mun Do  
Engineer of Telecommunication Testing Center

Report approved by : Jong Seok Lee  
Manager of Telecommunication Testing Center

This test results were applied only to the test methods required by the standard.

This laboratory is not accredited for the test results marked \*.  
The above Test Report is the accredited test result by (KS Q) ISO/IEC 17025 and KOLAS(Korea Laboratory Accreditation Scheme), which signed the ILAC-MRA. (HCT Accreditation No.: KT197)

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# Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-2102-FC042	February 25, 2021	- First Approval Report

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

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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>	A3LSMA526U
<b>Application Type:</b>	Certification
<b>FCC Classification:</b>	PCS Licensed Transmitter Held to Ear (PCE)
<b>FCC Rule Part(s):</b>	§24, §2
<b>EUT Type:</b>	Mobile Phone
<b>Model(s):</b>	SM-A526U
<b>Additional Model(s):</b>	SM-A526U1
<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>	February 01, 2021 ~ February 22, 2021
<b>Serial number:</b>	Radiated: R3CR10BE9RJ Conducted: R3CR10BBB2X

## 2. INTRODUCTION

### 2.1. DESCRIPTION OF EUT

The EUT was a Mobile Phone with GSM/GPRS/EGPRS/UMTS, CDMA(BC0, 1, 10) and LTE, Sub6.

It also supports IEEE 802.11 a/b/g/n/ac (HT20/40/80), Bluetooth, BT LE, NFC.

### 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 - ANSI C63.26-2015 – Section 5.2.6(only GSM)
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 1MHz
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 1GHz, 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;

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

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 = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
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 1GHz, 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;

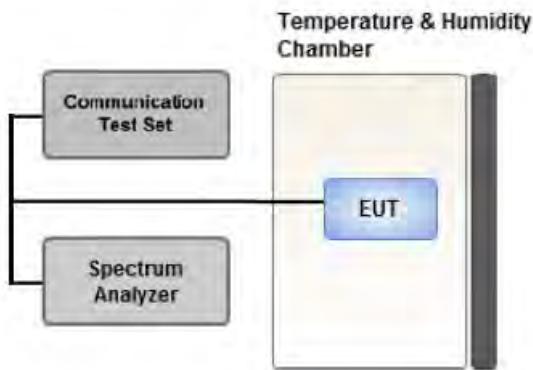
$$\text{Result}_{(\text{dBm})} = \text{Pg}_{(\text{dBm})} - \text{cable loss } (\text{dB}) + \text{antenna gain } (\text{dBi})$$

Where: Pg is the generator output power into the substitution antenna.

If the fundamental frequency is below 1GHz, 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:

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

**Test Settings(Peak Power)**

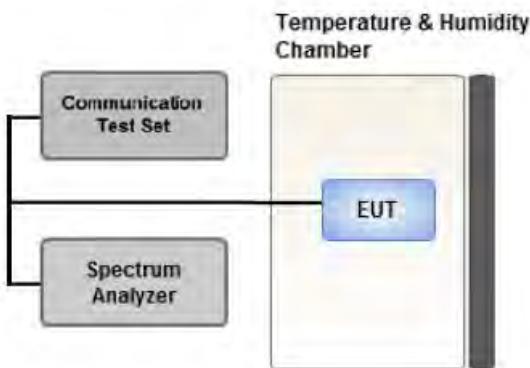
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW  $\geq 3 \times$  RBW.

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.

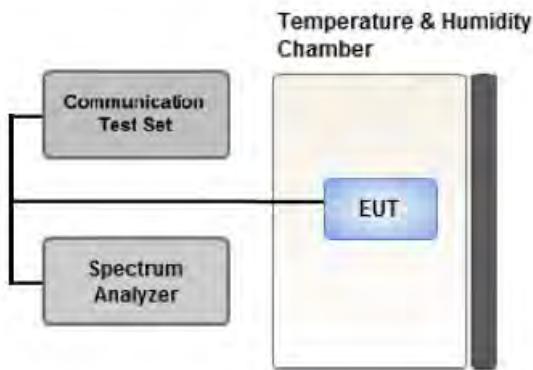
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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 26dB 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

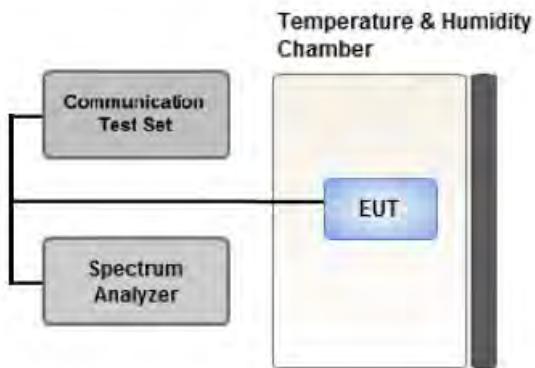
#### Test Overview

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 = Average
5. Sweep time = auto
6. Number of points in sweep  $\geq$  2 \* 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

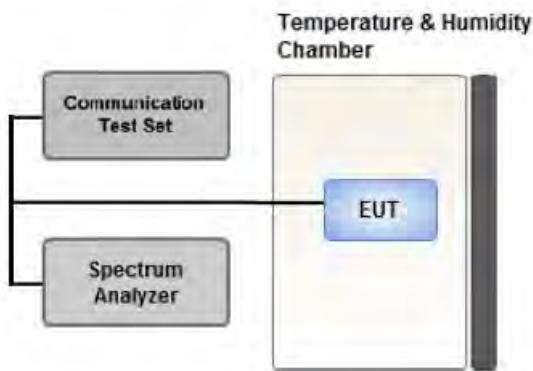
##### Test Notes

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.

### 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.

(In the case of radiated spurious emissions, only the B.W result that confirmed the maximum radiated power was reported.)

- 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.

- SM-A526U & additional models were tested and the worst case results are reported.

(Worst case : SM-A526U)

[ Worst case ]

Test Description	Modulation	RB size	RB offset	Axis
<b>Effective Isotropic Radiated Power</b>	QPSK, 16QAM, 64QAM	1	0	X
<b>Radiated Spurious and Harmonic Emissions</b>	QPSK	1	0	Y

**3.10 WORST CASE(CONDUCTED TEST)**

[ Worst case ]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth	QPSK, 16QAM, 64QAM	1.4, 3, 5, 10, 15, 20	Mid	Full RB	0
Peak-To-Average Ratio	QPSK, 16QAM, 64QAM	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

- 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.

- SM-A526U & additional models were tested and the worst case results are reported.

(Worst case : SM-A526U)

#### 4. LIST OF TEST EQUIPMENT

Manufacturer	Model/ Equipment	Serial Number	Calibration Date	Calibration Interval	Calibration Due
T&M SYSTEM	FBSR-02B(WHK1.2/15G-10EF)/H.P.F	-	03/09/2020	Annual	03/09/2021
T&M SYSTEM	FBSR-02B(WHK3.3/18G-10EF)/H.P.F	-	03/09/2020	Annual	03/09/2021
Hewlett Packard	11667B / Power Splitter(DC~26.5 GHz)	11275	04/27/2020	Annual	04/27/2021
Hewlett Packard	E3632A/DC Power Supply	MY40004427	09/16/2020	Annual	09/16/2021
Schwarzbeck	UHAP/ Dipole Antenna	557	03/29/2019	Biennial	03/29/2021
Schwarzbeck	UHAP/ Dipole Antenna	558	03/29/2019	Biennial	03/29/2021
ESPEC	SU-642 / Chamber	93008124	03/18/2020	Annual	03/18/2021
Schwarzbeck	BBHA 9120D/ Horn Antenna(1~18GHz)	147	08/29/2019	Biennial	08/29/2021
Schwarzbeck	BBHA 9120D/ Horn Antenna(1~18GHz)	9120D-1298	09/25/2019	Biennial	09/25/2021
Schwarzbeck	BBHA 9170/ Horn Antenna(15~40GHz)	BBHA9170342	04/29/2019	Biennial	04/29/2021
Schwarzbeck	BBHA 9170/ Horn Antenna(15~40GHz)	BBHA9170124	02/11/2020	Biennial	02/11/2022
Agilent	N9020A/Signal Analyzer(10Hz~26.5GHz)	MY51110063	04/27/2020	Annual	04/27/2021
Hewlett Packard	8493C/ATTENUATOR(20dB)	17280	06/04/2020	Annual	06/04/2021
REOHDE & SCHWARZ	FSV40/Spectrum Analyzer(10Hz~40GHz)	100931	10/14/2020	Annual	10/14/2021
Agilent	8960 (E5515C)/ Base Station	MY48360800	08/26/2020	Annual	08/26/2021
Schwarzbeck	FMZB1513/ Loop Antenna(9kHz~30MHz)	1513-175	04/26/2019	Biennial	04/26/2021
Schwarzbeck	VULB9160/ Biog Antenna	3150	03/12/2019	Biennial	03/12/2021
Schwarzbeck	VULB9160/ Hybrid Antenna	760	03/22/2019	Biennial	03/22/2021
Anritsu Corp.	MT8821C/Wideband Radio Communication Tester	6262116770	07/22/2020	Annual	07/22/2021
Anritsu Corp.	MT8820C/Wideband Radio Communication Tester	6201026545	01/07/2021	Annual	01/07/2022
REOHDE & SCHWARZ	SMB100A/ SIGNAL GENERATOR (100kHz~40GHz)	177633	07/13/2020	Annual	07/13/2021
KEYSIGHT	N9030B / Signal Analyzer(5Hz~40.0GHz)	MY55480167	06/04/2020	Annual	06/04/2021
HCT CO., LTD.,	FCC LTE Mobile Conducted RF Automation Test Software	-	-	-	-

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)	1.82
Radiated Disturbance (9 kHz ~ 30 MHz)	3.40
Radiated Disturbance (30 MHz ~ 1 GHz)	4.80
Radiated Disturbance (1 GHz ~ 18 GHz)	5.70
Radiated Disturbance (18 GHz ~ 40 GHz)	5.05

## 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	<u>See Note1</u>
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

ERP = Substitute LEVEL(dBm) + Ant. Gain – 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

EIRP = Substitute LEVEL(dBm) + Ant. Gain – 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	-19.34	14.74	10.10	2.11	H	< 2.00	0.187	22.73	
		16-QAM	-19.88	14.20	10.10	2.11	H		0.166	22.19	
		64-QAM	-21.04	13.04	10.10	2.11	H		0.127	21.03	
1882.5		QPSK	-19.18	15.37	10.15	2.15	H		0.217	23.37	
		16-QAM	-19.73	14.82	10.15	2.15	H		0.191	22.82	
		64-QAM	-20.90	13.65	10.15	2.15	H		0.146	21.65	
1914.3		QPSK	-19.65	15.00	10.24	2.16	H		0.203	23.09	
		16-QAM	-20.29	14.36	10.24	2.16	H		0.176	22.45	
		64-QAM	-21.35	13.30	10.24	2.16	H		0.138	21.39	

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	-19.20	14.88	10.10	2.11	H	< 2.00	0.194	22.87	
		16-QAM	-19.80	14.28	10.10	2.11	H		0.169	22.27	
		64-QAM	-20.90	13.18	10.10	2.11	H		0.131	21.17	
1882.5		QPSK	-19.16	15.39	10.15	2.15	H		0.218	23.39	
		16-QAM	-19.82	14.73	10.15	2.15	H		0.188	22.73	
		64-QAM	-20.90	13.65	10.15	2.15	H		0.146	21.65	
1913.5		QPSK	-19.34	15.20	10.23	2.15	H		0.213	23.28	
		16-QAM	-20.02	14.52	10.23	2.15	H		0.182	22.60	
		64-QAM	-21.08	13.46	10.23	2.15	H		0.143	21.54	

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	-19.28	14.80	10.10	2.11	H	< 2.00	0.190	22.79	
		16-QAM	-19.88	14.20	10.10	2.11	H		0.166	22.19	
		64-QAM	-21.02	13.06	10.10	2.11	H		0.127	21.05	
1882.5		QPSK	-19.43	15.12	10.15	2.15	H		0.205	23.12	
		16-QAM	-20.08	14.47	10.15	2.15	H		0.177	22.47	
		64-QAM	-21.18	13.37	10.15	2.15	H		0.137	21.37	
1912.5		QPSK	-19.37	15.17	10.23	2.15	H		0.211	23.25	
		16-QAM	-20.02	14.52	10.23	2.15	H		0.182	22.60	
		64-QAM	-21.08	13.46	10.23	2.15	H		0.143	21.54	

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	-19.58	14.57	10.12	2.12	H	< 2.00	0.181	22.57	
		16-QAM	-20.15	14.00	10.12	2.12	H		0.158	22.00	
		64-QAM	-21.22	12.93	10.12	2.12	H		0.124	20.93	
1882.5		QPSK	-19.74	14.81	10.15	2.15	H		0.191	22.81	
		16-QAM	-20.33	14.22	10.15	2.15	H		0.167	22.22	
		64-QAM	-21.45	13.10	10.15	2.15	H		0.129	21.10	
1910.0		QPSK	-19.43	15.11	10.23	2.15	H		0.209	23.19	
		16-QAM	-20.05	14.49	10.23	2.15	H		0.181	22.57	
		64-QAM	-21.08	13.46	10.23	2.15	H		0.143	21.54	

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	-19.64	14.57	10.13	2.12	H	< 2.00	0.181	22.58	
		16-QAM	-20.24	13.97	10.13	2.12	H		0.158	21.98	
		64-QAM	-21.31	12.90	10.13	2.12	H		0.123	20.91	
1882.5		QPSK	-19.36	15.19	10.15	2.15	H		0.208	23.19	
		16-QAM	-19.90	14.65	10.15	2.15	H		0.184	22.65	
		64-QAM	-21.08	13.47	10.15	2.15	H		0.140	21.47	
1907.5		QPSK	-19.52	15.02	10.23	2.15	H		0.204	23.10	
		16-QAM	-20.14	14.40	10.23	2.15	H		0.177	22.48	
		64-QAM	-21.24	13.30	10.23	2.15	H		0.137	21.38	

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	-19.44	14.77	10.13	2.12	H	< 2.00	0.190	22.78	
		16-QAM	-20.00	14.21	10.13	2.12	H		0.167	22.22	
		64-QAM	-21.09	13.12	10.13	2.12	H		0.130	21.13	
1882.5		QPSK	-19.56	14.99	10.15	2.15	H		0.199	22.99	
		16-QAM	-20.18	14.37	10.15	2.15	H		0.173	22.37	
		64-QAM	-21.33	13.22	10.15	2.15	H		0.132	21.22	
1905.0		QPSK	-19.42	15.34	10.12	2.15	H		0.214	23.31	
		16-QAM	-20.05	14.71	10.12	2.15	H		0.185	22.68	
		64-QAM	-21.14	13.62	10.12	2.15	H		0.144	21.59	

## 8.2 RADIATED SPURIOUS EMISSIONS

- OPERATING FREQUENCY: 1882.5 MHz  
 MEASURED OUTPUT POWER: 23.39 dBm = 0.218 W  
 MOD: LTE B25/B2  
 MODULATION SIGNAL: 3 MHz QPSK  
 DISTANCE: 3 meters  
 LIMIT:  $43 + 10 \log_{10} (W) =$  36.39 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	dBc
26055 (1851.5)	3 703.00	-55.13	12.40	-59.20	3.08	H	-49.88	73.27
	5 554.50	-55.82	13.13	-53.90	3.82	H	-44.59	67.98
	7 406.00	-48.12	11.12	-38.05	4.45	H	-31.38	54.77
26365 (1882.5)	3 765.00	-55.01	12.47	-59.04	3.10	H	-49.67	73.06
	5 647.50	-55.86	13.30	-53.80	3.87	V	-44.37	67.76
	7 530.00	-49.12	11.30	-38.69	4.45	V	-31.84	55.23
26675 (1913.5)	3 827.00	-54.40	12.40	-58.63	3.14	V	-49.37	72.76
	5 740.50	-56.36	13.33	-53.49	3.87	H	-44.03	67.42
	7 654.00	-47.72	11.70	-37.11	4.47	H	-29.87	53.27

### 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	4.51	
			16-QAM	6	0	5.32	
			64-QAM	6	0	6.05	
	3 MHz		QPSK	15	0	4.64	
			16-QAM	15	0	5.42	
			64-QAM	15	0	6.03	
	5 MHz		QPSK	25	0	4.63	
			16-QAM	25	0	5.36	
			64-QAM	25	0	6.04	
	10 MHz		QPSK	50	0	4.72	
			16-QAM	50	0	5.44	
			64-QAM	50	0	6.10	
	15 MHz		QPSK	75	0	4.73	
			16-QAM	75	0	5.47	
			64-QAM	75	0	6.17	
	20 MHz		QPSK	100	0	4.76	
			16-QAM	100	0	5.47	
			64-QAM	100	0	6.17	

**Note:**

- Plots of the EUT's Peak- to- Average Ratio are shown Page 67 ~ 84.

#### 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	1.0938	
			16-QAM	6	0	1.0909	
			64-QAM	6	0	1.0927	
	3 MHz		QPSK	15	0	2.7141	
			16-QAM	15	0	2.7028	
			64-QAM	15	0	2.7031	
	5 MHz		QPSK	25	0	4.5118	
			16-QAM	25	0	4.5086	
			64-QAM	25	0	4.5151	
	10 MHz		QPSK	50	0	8.9758	
			16-QAM	50	0	8.9940	
			64-QAM	50	0	9.0118	
	15 MHz		QPSK	75	0	13.445	
			16-QAM	75	0	13.474	
			64-QAM	75	0	13.459	
	20 MHz		QPSK	100	0	17.958	
			16-QAM	100	0	17.942	
			64-QAM	100	0	17.997	

**Note:**

- Plots of the EUT's Occupied Bandwidth are shown Page 49 ~ 66.

### 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	2.6661	28.376	-77.200	-48.824	-13.00
		3.6790	3.6700	28.376	-76.759	-48.383	
		3.6780	3.6875	28.376	-77.088	-48.712	
	3	3.6815	3.7069	28.376	-77.148	-48.772	
		3.7114	3.6915	28.376	-77.133	-48.757	
		3.6885	3.6636	28.376	-77.254	-48.878	
	5	3.7194	3.6805	28.376	-76.896	-48.520	
		3.7114	3.6970	28.376	-77.205	-48.829	
		3.6850	3.6935	28.376	-77.086	-48.710	
	10	3.7189	3.1850	28.376	-77.326	-48.950	
		3.7044	3.6975	28.376	-77.311	-48.935	
		3.6785	3.6960	28.376	-77.288	-48.912	
	15	3.6910	3.6760	28.376	-77.331	-48.955	
		3.7039	3.6835	28.376	-77.472	-49.096	
		3.7044	3.7104	28.376	-77.195	-48.819	
	20	3.7169	3.7005	28.376	-76.396	-48.020	
		3.7124	3.7089	28.376	-77.424	-49.048	
		3.7005	3.6800	28.376	-77.325	-48.949	

**Note:**

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 121 ~ 156.
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	28.376
5 – 10	28.591
10 – 15	29.116
15 – 20	29.489
Above 20	30.131

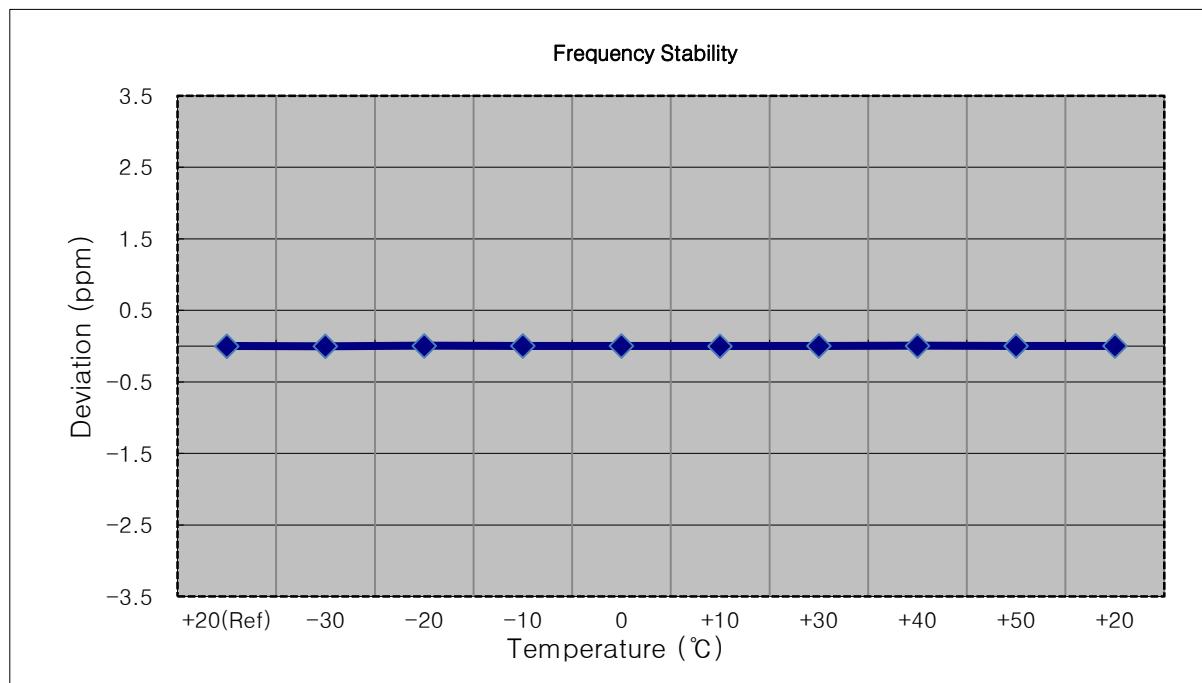
### 8.6 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 85 ~ 120.

### 8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

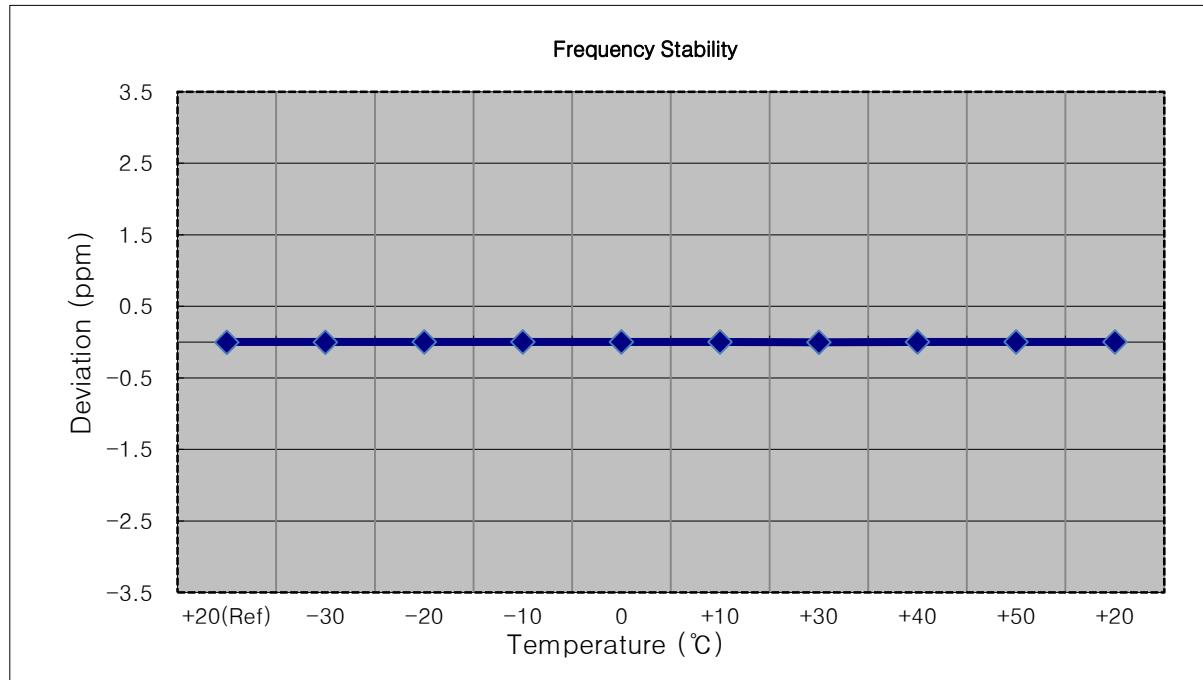
- MODE: LTE B25/B2  
 OPERATING FREQUENCY: 1850,700,000 Hz  
 CHANNEL: 26047 (1.4 MHz)  
 REFERENCE VOLTAGE: 3.86 VDC  
 DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1850 700 007	0.0	0.000 000	0.000
100%		-30	1850 700 004	-3.2	0.000 000	-0.002
100%		-20	1850 700 014	7.3	0.000 000	0.004
100%		-10	1850 700 010	3.0	0.000 000	0.002
100%		0	1850 700 012	5.0	0.000 000	0.003
100%		+10	1850 700 009	2.4	0.000 000	0.001
100%		+30	1850 700 010	3.4	0.000 000	0.002
100%		+40	1850 700 014	7.3	0.000 000	0.004
100%		+50	1850 700 012	4.9	0.000 000	0.003
Batt. Endpoint	3.400	+20	1850 700 014	6.7	0.000 000	0.004



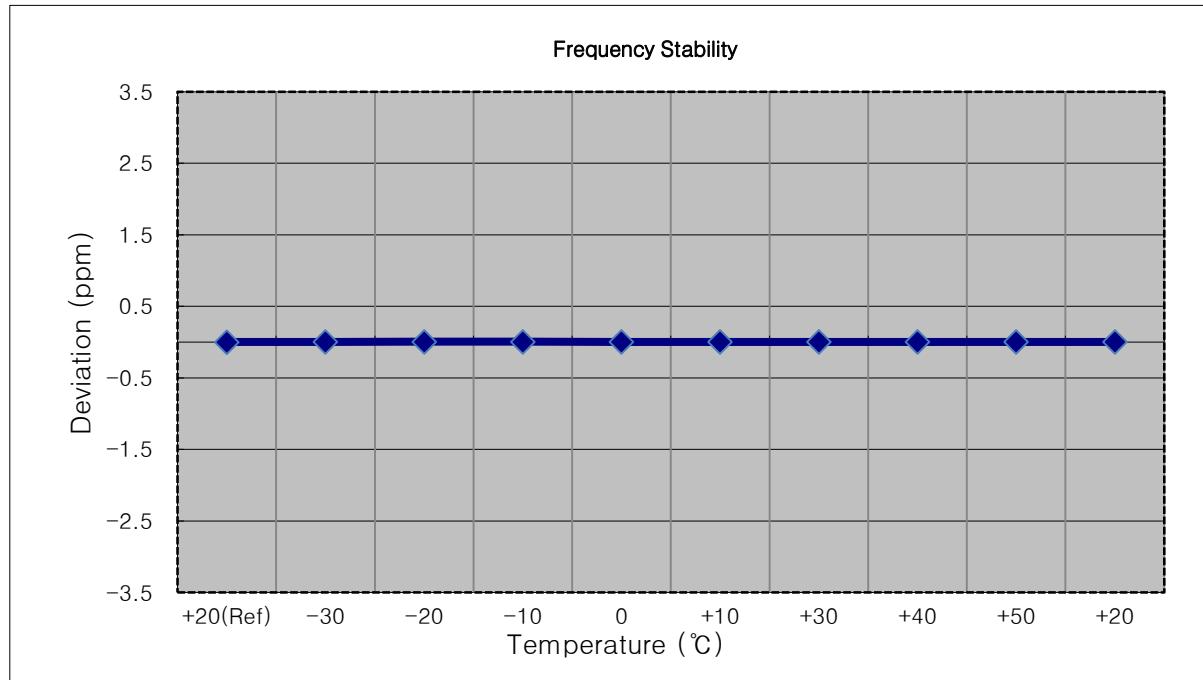
- MODE: LTE B25/B2  
 OPERATING FREQUENCY: 1851,500,000 Hz  
 CHANNEL: 26055 (3 MHz)  
 REFERENCE VOLTAGE: 3.86 VDC  
 DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1851 499 996	0.0	0.000 000	0.000
100%		-30	1851 499 998	2.1	0.000 000	0.001
100%		-20	1851 500 002	5.7	0.000 000	0.003
100%		-10	1851 500 000	3.5	0.000 000	0.002
100%		0	1851 500 001	4.6	0.000 000	0.002
100%		+10	1851 500 001	5.1	0.000 000	0.003
100%		+30	1851 499 992	-4.0	0.000 000	-0.002
100%		+40	1851 500 000	3.8	0.000 000	0.002
100%		+50	1851 500 002	5.5	0.000 000	0.003
Batt. Endpoint	3.400	+20	1851 500 002	6.3	0.000 000	0.003



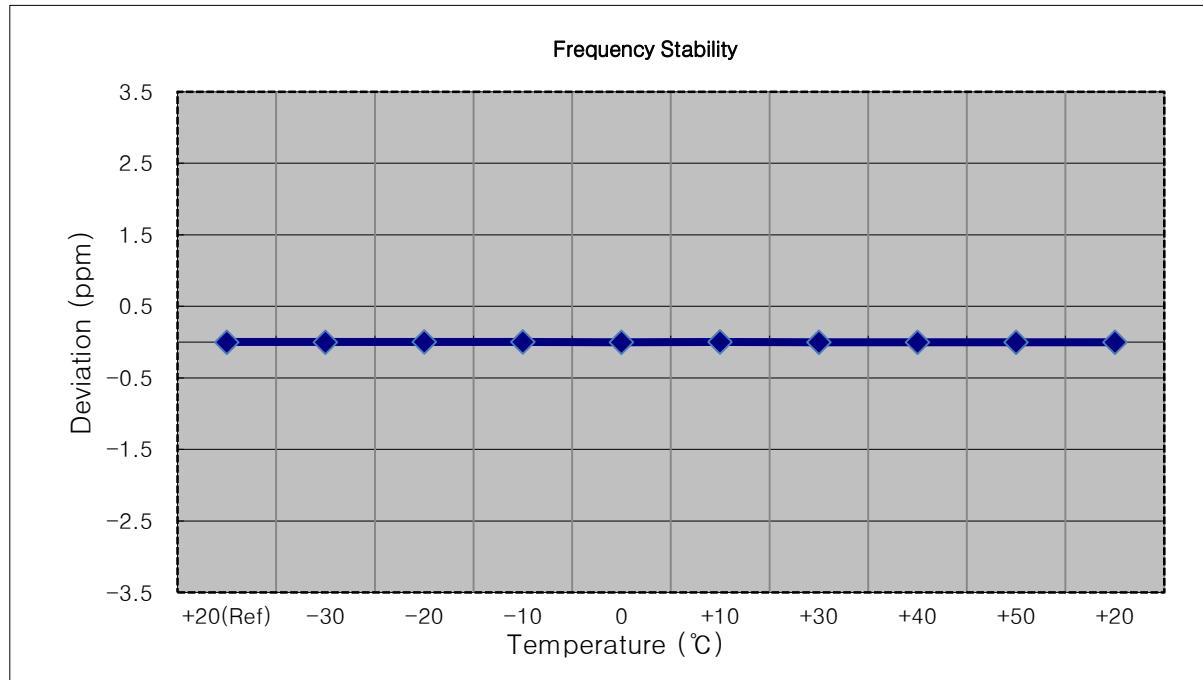
- MODE: LTE B25/B2
- OPERATING FREQUENCY: 1852,500,000 Hz
- CHANNEL: 26065 (5 MHz)
- REFERENCE VOLTAGE: 3.86 VDC
- DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1852 500 005	0.0	0.000 000	0.000
100%		-30	1852 500 012	6.6	0.000 000	0.004
100%		-20	1852 500 014	8.8	0.000 000	0.005
100%		-10	1852 500 013	7.9	0.000 000	0.004
100%		0	1852 500 009	3.7	0.000 000	0.002
100%		+10	1852 500 011	5.1	0.000 000	0.003
100%		+30	1852 500 010	4.2	0.000 000	0.002
100%		+40	1852 500 008	2.9	0.000 000	0.002
100%		+50	1852 500 010	4.1	0.000 000	0.002
Batt. Endpoint	3.400	+20	1852 500 011	5.5	0.000 000	0.003



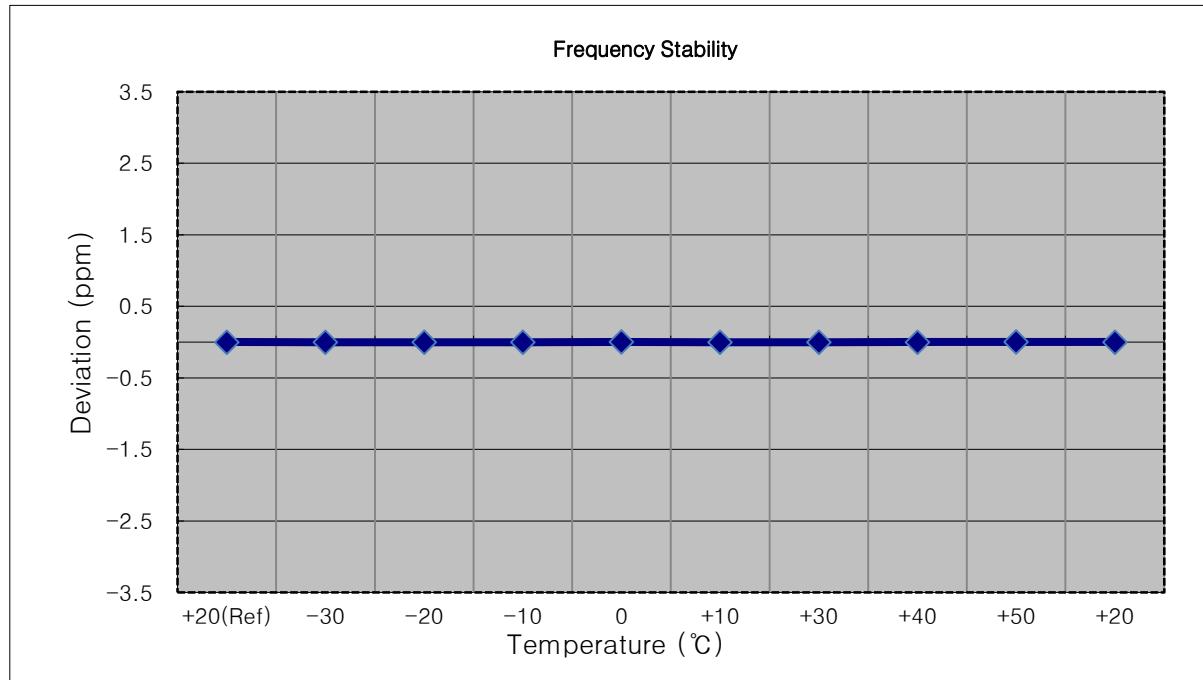
- MODE: LTE B25/B2
- OPERATING FREQUENCY: 1855,000,000 Hz
- CHANNEL: 26090 (10 MHz)
- REFERENCE VOLTAGE: 3.86 VDC
- DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1855 000 005	0.0	0.000 000	0.000
100%		-30	1855 000 007	2.3	0.000 000	0.001
100%		-20	1855 000 010	5.3	0.000 000	0.003
100%		-10	1855 000 010	5.2	0.000 000	0.003
100%		0	1855 000 003	-2.0	0.000 000	-0.001
100%		+10	1855 000 010	5.1	0.000 000	0.003
100%		+30	1855 000 002	-2.2	0.000 000	-0.001
100%		+40	1855 000 002	-2.8	0.000 000	-0.002
100%		+50	1855 000 001	-3.6	0.000 000	-0.002
Batt. Endpoint	3.400	+20	1855 000 001	-3.7	0.000 000	-0.002



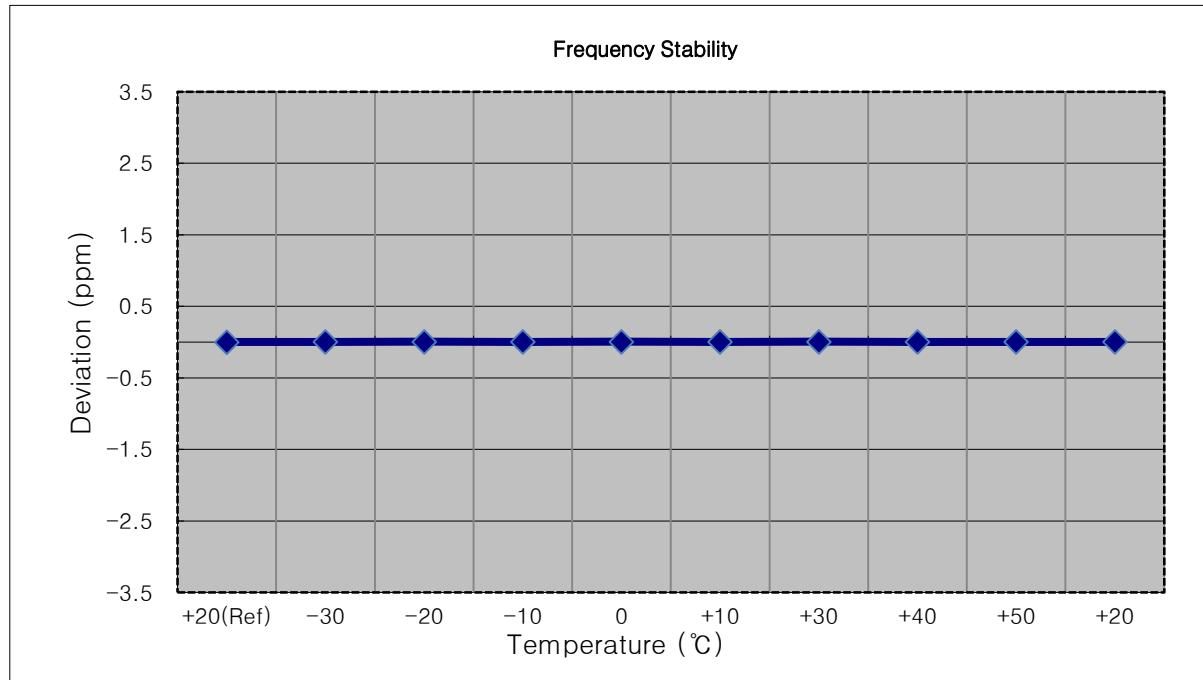
- MODE: LTE B25/B2  
 OPERATING FREQUENCY: 1857,500,000 Hz  
 CHANNEL: 26115 (15 MHz)  
 REFERENCE VOLTAGE: 3.86 VDC  
 DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1857 500 005	0.0	0.000 000	0.000
100%		-30	1857 500 001	-3.8	0.000 000	-0.002
100%		-20	1857 500 002	-3.1	0.000 000	-0.002
100%		-10	1857 500 002	-3.0	0.000 000	-0.002
100%		0	1857 500 009	4.0	0.000 000	0.002
100%		+10	1857 500 002	-3.2	0.000 000	-0.002
100%		+30	1857 500 002	-3.0	0.000 000	-0.002
100%		+40	1857 500 007	2.5	0.000 000	0.001
100%		+50	1857 500 008	3.4	0.000 000	0.002
Batt. Endpoint	3.400	+20	1857 500 007	2.0	0.000 000	0.001



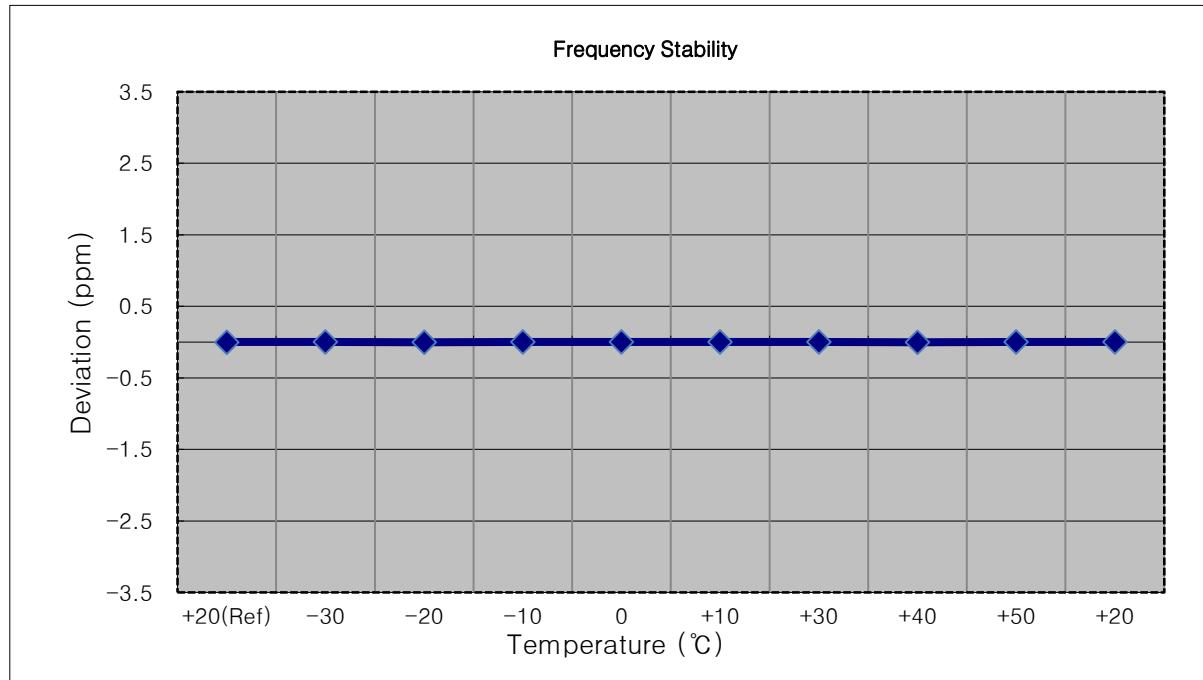
- MODE: LTE B25/B2  
 OPERATING FREQUENCY: 1860,000,000 Hz  
 CHANNEL: 26140 (20 MHz)  
 REFERENCE VOLTAGE: 3.86 VDC  
 DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1860 000 006	0.0	0.000 000	0.000
100%		-30	1860 000 011	4.4	0.000 000	0.002
100%		-20	1860 000 013	7.1	0.000 000	0.004
100%		-10	1860 000 013	6.3	0.000 000	0.003
100%		0	1860 000 014	7.6	0.000 000	0.004
100%		+10	1860 000 012	6.0	0.000 000	0.003
100%		+30	1860 000 014	7.3	0.000 000	0.004
100%		+40	1860 000 012	5.9	0.000 000	0.003
100%		+50	1860 000 011	4.7	0.000 000	0.003
Batt. Endpoint	3.400	+20	1860 000 012	6.1	0.000 000	0.003



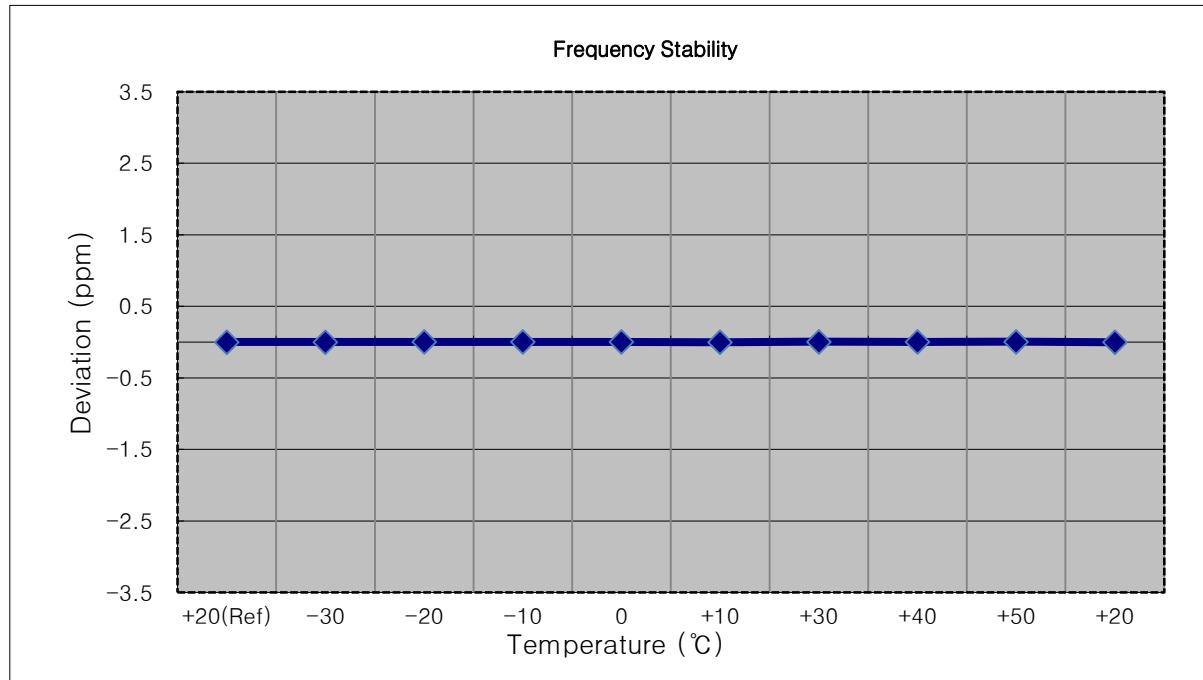
- MODE: LTE B25/B2  
 OPERATING FREQUENCY: 1882,500,000 Hz  
 CHANNEL: 26365 (1.4 MHz)  
 REFERENCE VOLTAGE: 3.86 VDC  
 DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1882 499 996	0.0	0.000 000	0.000
100%		-30	1882 500 000	4.1	0.000 000	0.002
100%		-20	1882 499 993	-2.4	0.000 000	-0.001
100%		-10	1882 500 000	3.9	0.000 000	0.002
100%		0	1882 499 999	3.6	0.000 000	0.002
100%		+10	1882 500 001	5.2	0.000 000	0.003
100%		+30	1882 500 001	4.9	0.000 000	0.003
100%		+40	1882 499 993	-2.8	0.000 000	-0.001
100%		+50	1882 500 000	4.0	0.000 000	0.002
Batt. Endpoint	3.400	+20	1882 500 001	5.2	0.000 000	0.003



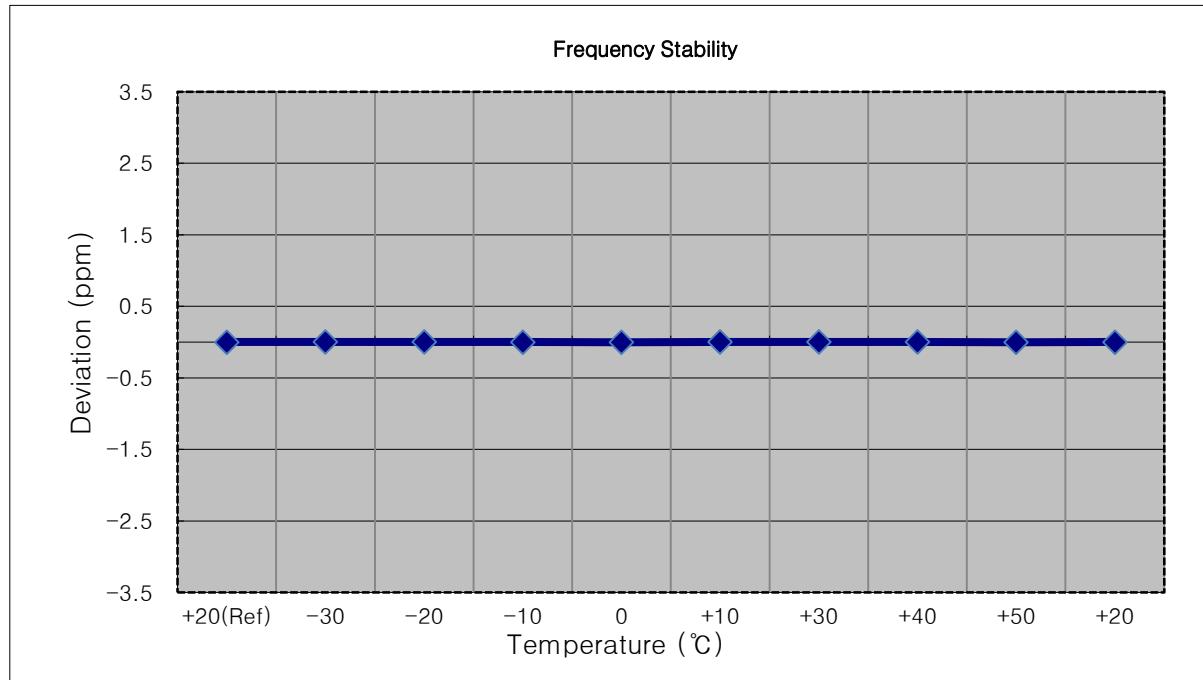
- MODE: LTE B25/B2  
 OPERATING FREQUENCY: 1882,500,000 Hz  
 CHANNEL: 26365 (3 MHz)  
 REFERENCE VOLTAGE: 3.86 VDC  
 DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1882 500 007	0.0	0.000 000	0.000
100%		-30	1882 500 010	2.7	0.000 000	0.001
100%		-20	1882 500 012	5.0	0.000 000	0.003
100%		-10	1882 500 011	3.9	0.000 000	0.002
100%		0	1882 500 011	3.8	0.000 000	0.002
100%		+10	1882 500 004	-3.2	0.000 000	-0.002
100%		+30	1882 500 015	7.9	0.000 000	0.004
100%		+40	1882 500 010	3.1	0.000 000	0.002
100%		+50	1882 500 015	8.4	0.000 000	0.004
Batt. Endpoint	3.400	+20	1882 500 004	-2.9	0.000 000	-0.002



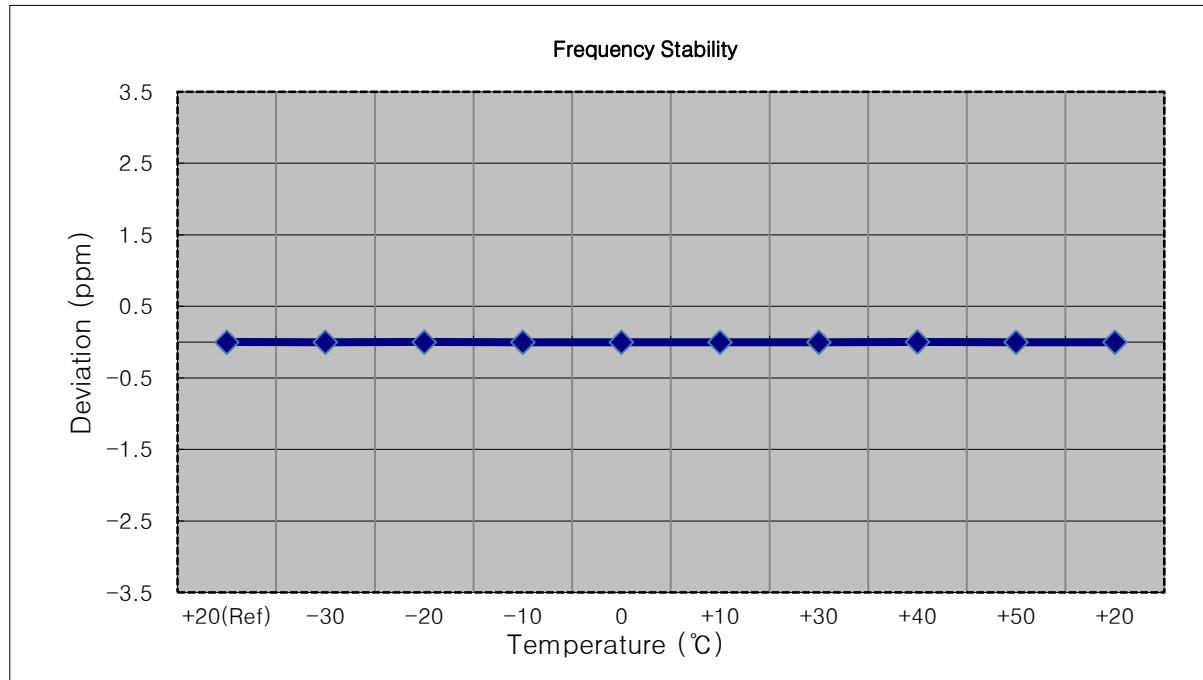
- MODE: LTE B25/B2
- OPERATING FREQUENCY: 1882,500,000 Hz
- CHANNEL: 26365 (5 MHz)
- REFERENCE VOLTAGE: 3.86 VDC
- DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1882 500 005	0.0	0.000 000	0.000
100%		-30	1882 500 009	3.9	0.000 000	0.002
100%		-20	1882 500 009	3.7	0.000 000	0.002
100%		-10	1882 500 007	2.4	0.000 000	0.001
100%		0	1882 500 003	-2.3	0.000 000	-0.001
100%		+10	1882 500 008	3.0	0.000 000	0.002
100%		+30	1882 500 009	3.6	0.000 000	0.002
100%		+40	1882 500 009	3.9	0.000 000	0.002
100%		+50	1882 500 002	-2.9	0.000 000	-0.002
Batt. Endpoint	3.400	+20	1882 500 007	1.9	0.000 000	0.001



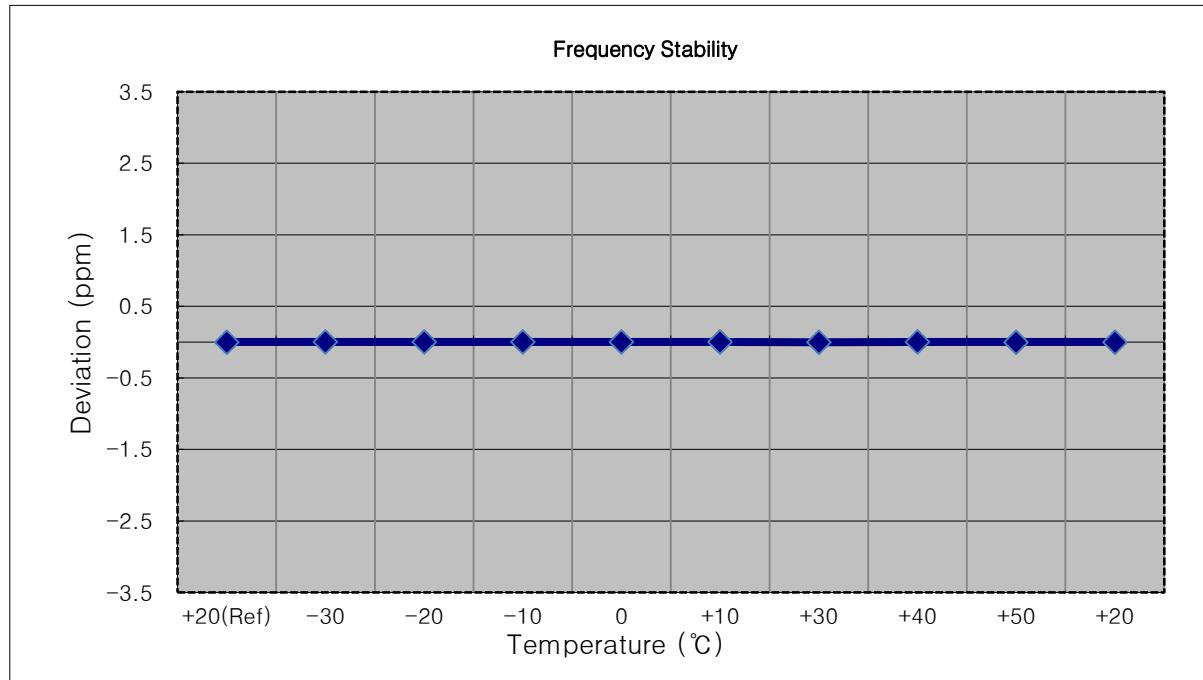
- MODE: LTE B25/B2
- OPERATING FREQUENCY: 1882,500,000 Hz
- CHANNEL: 26365 (10 MHz)
- REFERENCE VOLTAGE: 3.86 VDC
- DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1882 499 992	0.0	0.000 000	0.000
100%		-30	1882 499 990	-2.2	0.000 000	-0.001
100%		-20	1882 499 991	-1.3	0.000 000	-0.001
100%		-10	1882 499 989	-3.3	0.000 000	-0.002
100%		0	1882 499 989	-2.8	0.000 000	-0.001
100%		+10	1882 499 988	-3.5	0.000 000	-0.002
100%		+30	1882 499 989	-2.7	0.000 000	-0.001
100%		+40	1882 499 996	3.7	0.000 000	0.002
100%		+50	1882 499 987	-5.0	0.000 000	-0.003
Batt. Endpoint	3.400	+20	1882 499 990	-2.1	0.000 000	-0.001



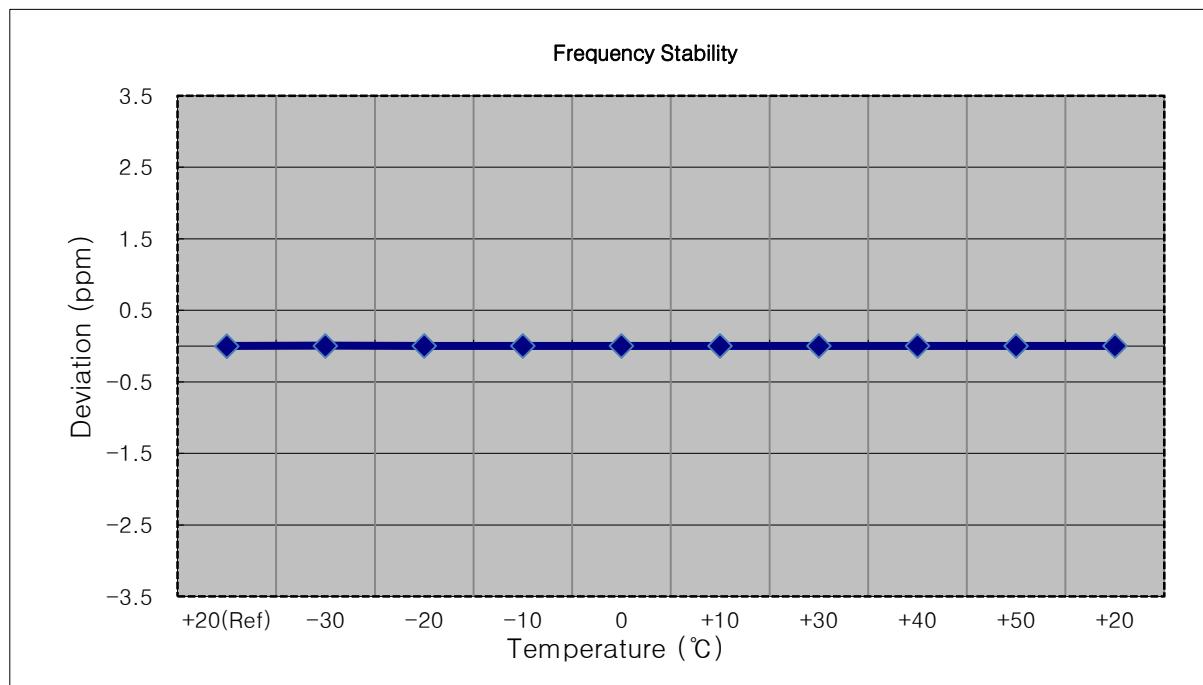
- MODE: LTE B25/B2
- OPERATING FREQUENCY: 1882,500,000 Hz
- CHANNEL: 26365 (15 MHz)
- REFERENCE VOLTAGE: 3.86 VDC
- DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1882 500 004	0.0	0.000 000	0.000
100%		-30	1882 500 008	4.1	0.000 000	0.002
100%		-20	1882 500 009	5.4	0.000 000	0.003
100%		-10	1882 500 009	5.1	0.000 000	0.003
100%		0	1882 500 007	3.6	0.000 000	0.002
100%		+10	1882 500 007	3.1	0.000 000	0.002
100%		+30	1882 500 001	-2.4	0.000 000	-0.001
100%		+40	1882 500 007	3.5	0.000 000	0.002
100%		+50	1882 500 006	2.2	0.000 000	0.001
Batt. Endpoint	3.400	+20	1882 500 006	2.4	0.000 000	0.001



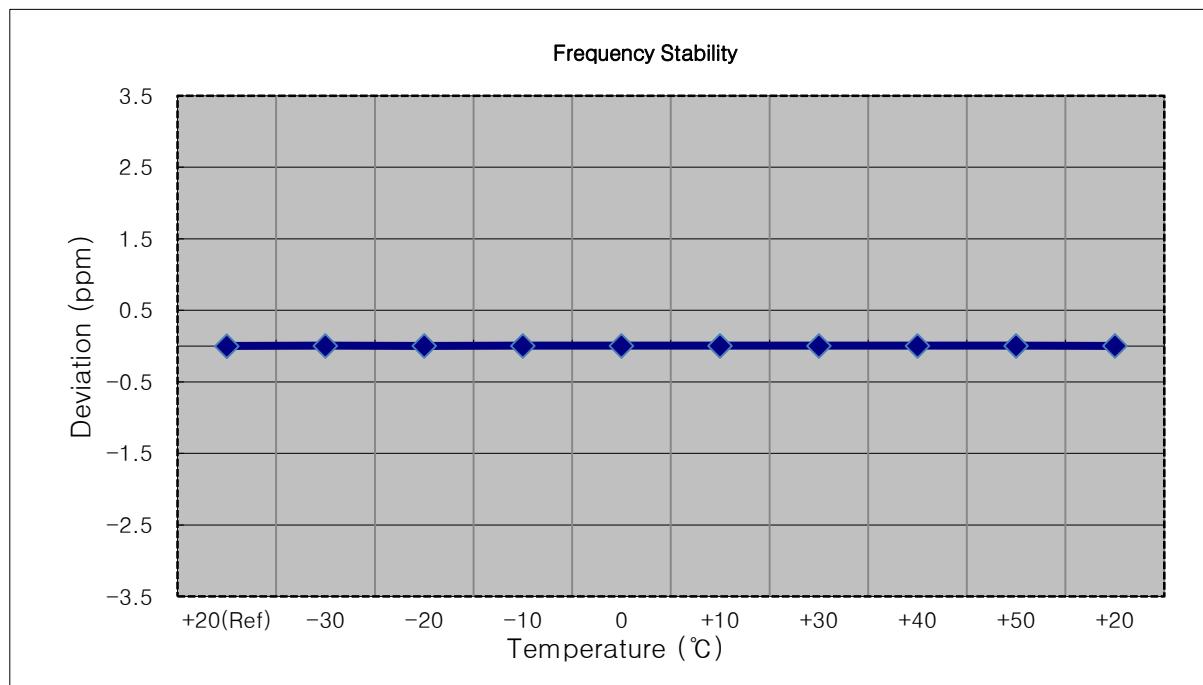
- MODE: LTE B25/B2
- OPERATING FREQUENCY: 1882,500,000 Hz
- CHANNEL: 26365 (20 MHz)
- REFERENCE VOLTAGE: 3.86 VDC
- DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1882 500 002	0.0	0.000 000	0.000
100%		-30	1882 500 010	7.2	0.000 000	0.004
100%		-20	1882 500 006	3.7	0.000 000	0.002
100%		-10	1882 500 009	6.5	0.000 000	0.003
100%		0	1882 500 007	5.1	0.000 000	0.003
100%		+10	1882 500 006	3.2	0.000 000	0.002
100%		+30	1882 500 009	6.4	0.000 000	0.003
100%		+40	1882 500 007	4.9	0.000 000	0.003
100%		+50	1882 500 006	3.3	0.000 000	0.002
Batt. Endpoint	3.400	+20	1882 500 006	3.6	0.000 000	0.002



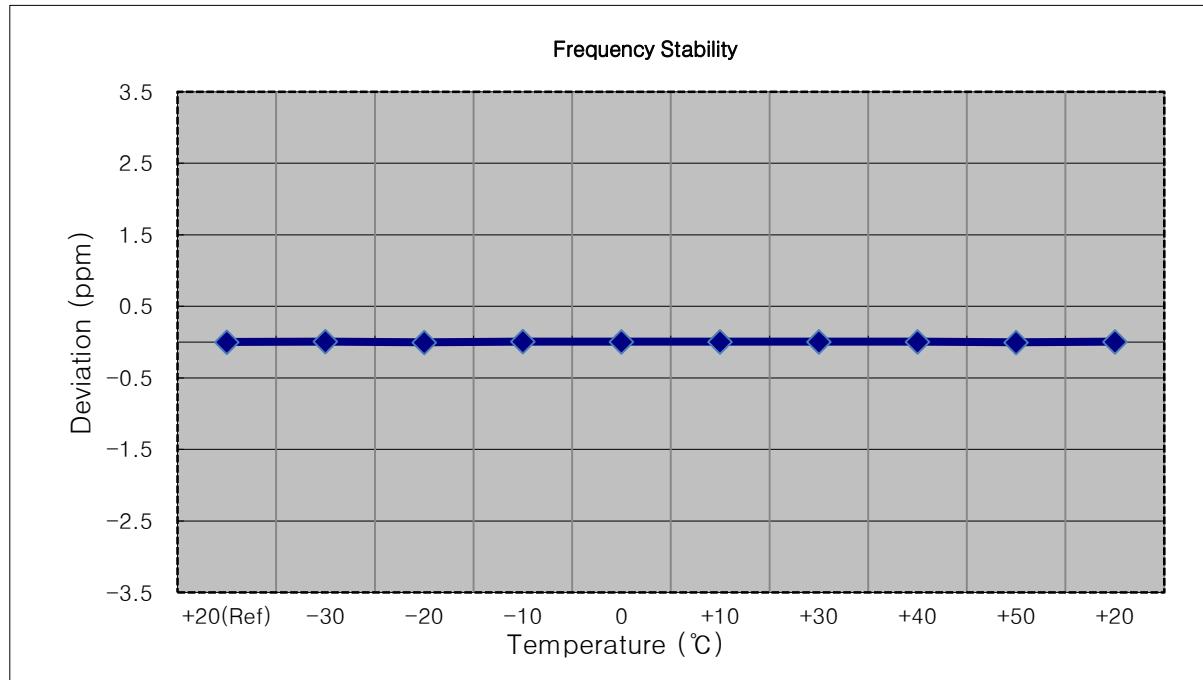
- MODE: LTE B25/B2
- OPERATING FREQUENCY: 1914,300,000 Hz
- CHANNEL: 26683 (1.4 MHz)
- REFERENCE VOLTAGE: 3.86 VDC
- DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1914 300 006	0.0	0.000 000	0.000
100%		-30	1914 300 015	8.2	0.000 000	0.004
100%		-20	1914 300 010	3.3	0.000 000	0.002
100%		-10	1914 300 014	7.1	0.000 000	0.004
100%		0	1914 300 015	8.5	0.000 000	0.004
100%		+10	1914 300 015	8.3	0.000 000	0.004
100%		+30	1914 300 014	8.0	0.000 000	0.004
100%		+40	1914 300 014	7.2	0.000 000	0.004
100%		+50	1914 300 016	9.9	0.000 001	0.005
Batt. Endpoint	3.400	+20	1914 300 011	4.6	0.000 000	0.002



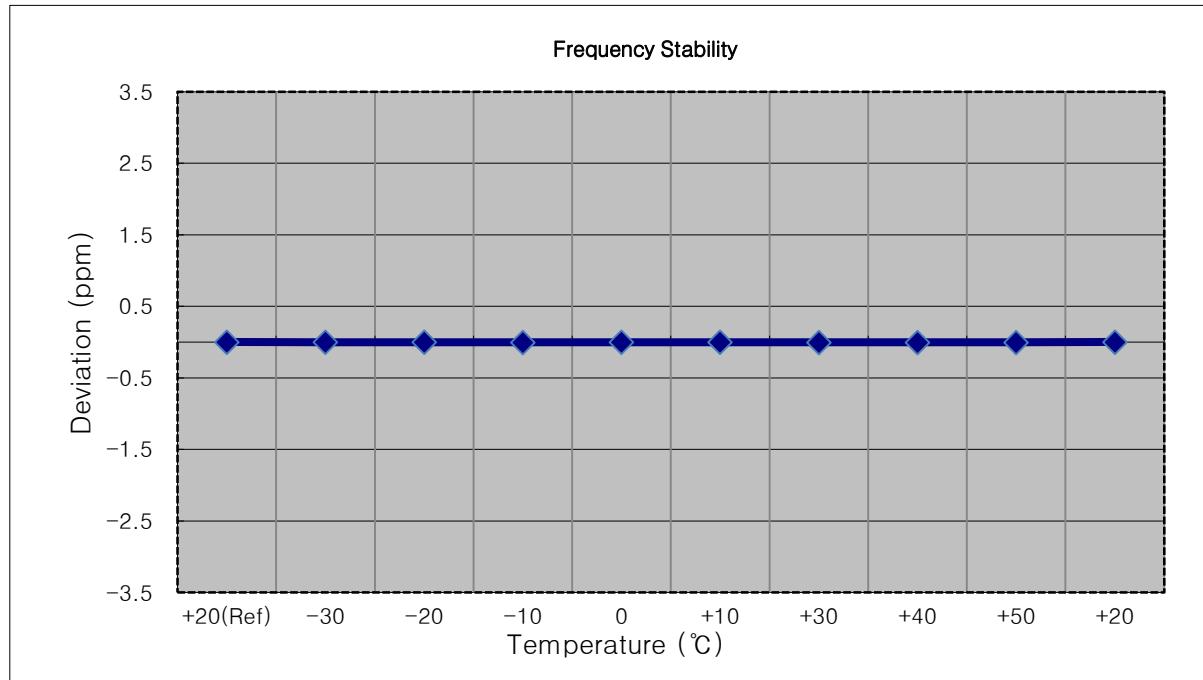
- MODE: LTE B25/B2
- OPERATING FREQUENCY: 1913,500,000 Hz
- CHANNEL: 26675 (3 MHz)
- REFERENCE VOLTAGE: 3.86 VDC
- DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1913 500 010	0.0	0.000 000	0.000
100%		-30	1913 500 023	12.8	0.000 001	0.007
100%		-20	1913 500 003	-7.5	0.000 000	-0.004
100%		-10	1913 500 023	13.2	0.000 001	0.007
100%		0	1913 500 019	9.2	0.000 000	0.005
100%		+10	1913 500 020	9.4	0.000 000	0.005
100%		+30	1913 500 018	7.7	0.000 000	0.004
100%		+40	1913 500 019	8.8	0.000 000	0.005
100%		+50	1913 500 003	-7.6	0.000 000	-0.004
Batt. Endpoint	3.400	+20	1913 500 021	10.4	0.000 001	0.005



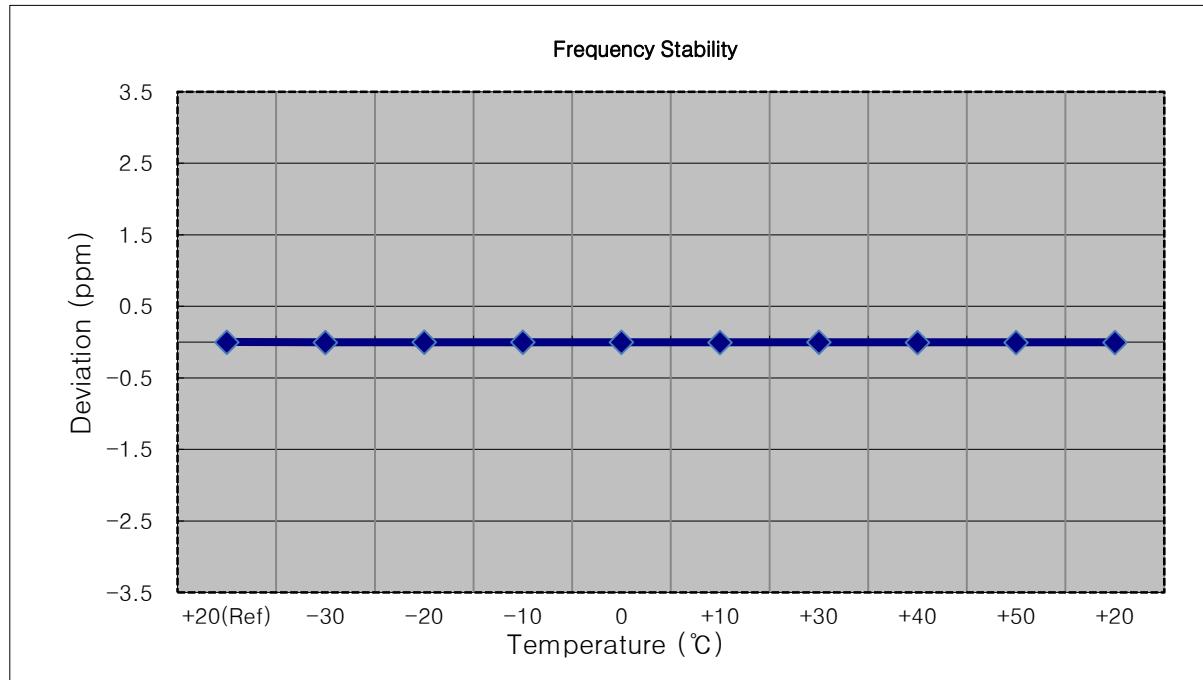
- MODE: LTE B25/B2
- OPERATING FREQUENCY: 1912,500,000 Hz
- CHANNEL: 26665 (5 MHz)
- REFERENCE VOLTAGE: 3.86 VDC
- DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1912 499 993	0.0	0.000 000	0.000
100%		-30	1912 499 989	-4.4	0.000 000	-0.002
100%		-20	1912 499 990	-3.1	0.000 000	-0.002
100%		-10	1912 499 987	-6.4	0.000 000	-0.003
100%		0	1912 499 989	-4.3	0.000 000	-0.002
100%		+10	1912 499 990	-3.9	0.000 000	-0.002
100%		+30	1912 499 986	-7.4	0.000 000	-0.004
100%		+40	1912 499 986	-7.2	0.000 000	-0.004
100%		+50	1912 499 987	-6.2	0.000 000	-0.003
Batt. Endpoint	3.400	+20	1912 499 996	2.3	0.000 000	0.001



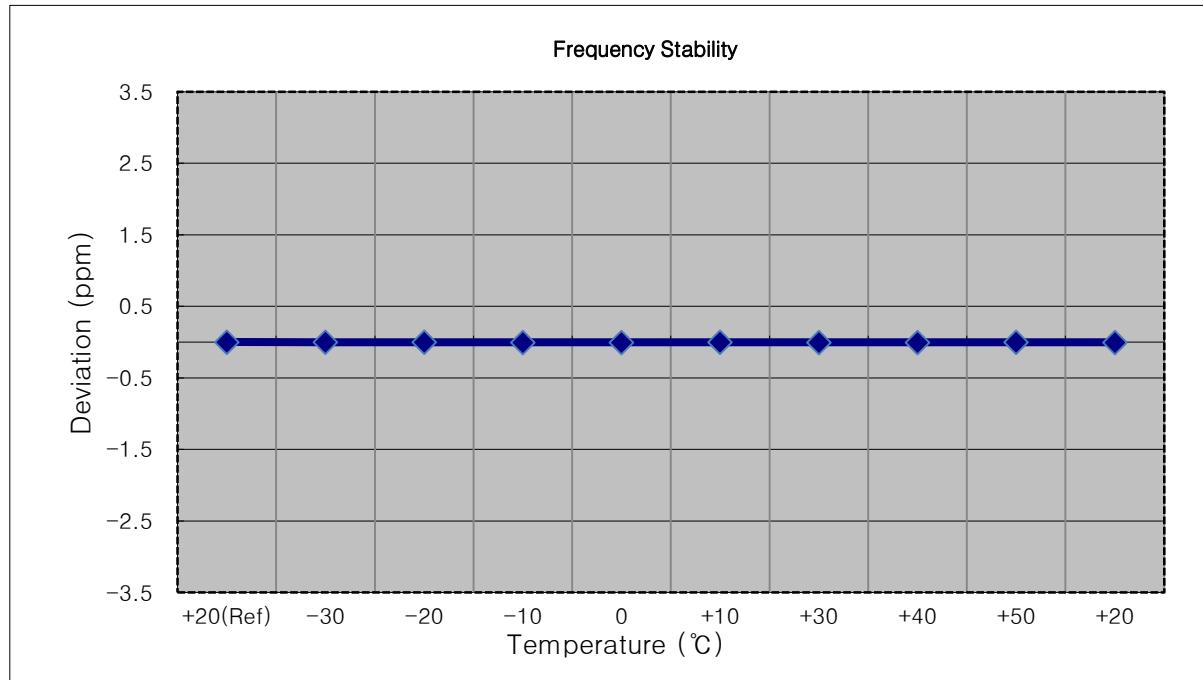
- MODE: LTE B25/B2  
 OPERATING FREQUENCY: 1910,000,000 Hz  
 CHANNEL: 26640 (10 MHz)  
 REFERENCE VOLTAGE: 3.86 VDC  
 DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1909 999 993	0.0	0.000 000	0.000
100%		-30	1909 999 987	-6.5	0.000 000	-0.003
100%		-20	1909 999 988	-5.4	0.000 000	-0.003
100%		-10	1909 999 989	-3.6	0.000 000	-0.002
100%		0	1909 999 987	-5.7	0.000 000	-0.003
100%		+10	1909 999 985	-7.6	0.000 000	-0.004
100%		+30	1909 999 989	-3.9	0.000 000	-0.002
100%		+40	1909 999 987	-6.4	0.000 000	-0.003
100%		+50	1909 999 986	-6.6	0.000 000	-0.003
Batt. Endpoint	3.400	+20	1909 999 987	-6.3	0.000 000	-0.003



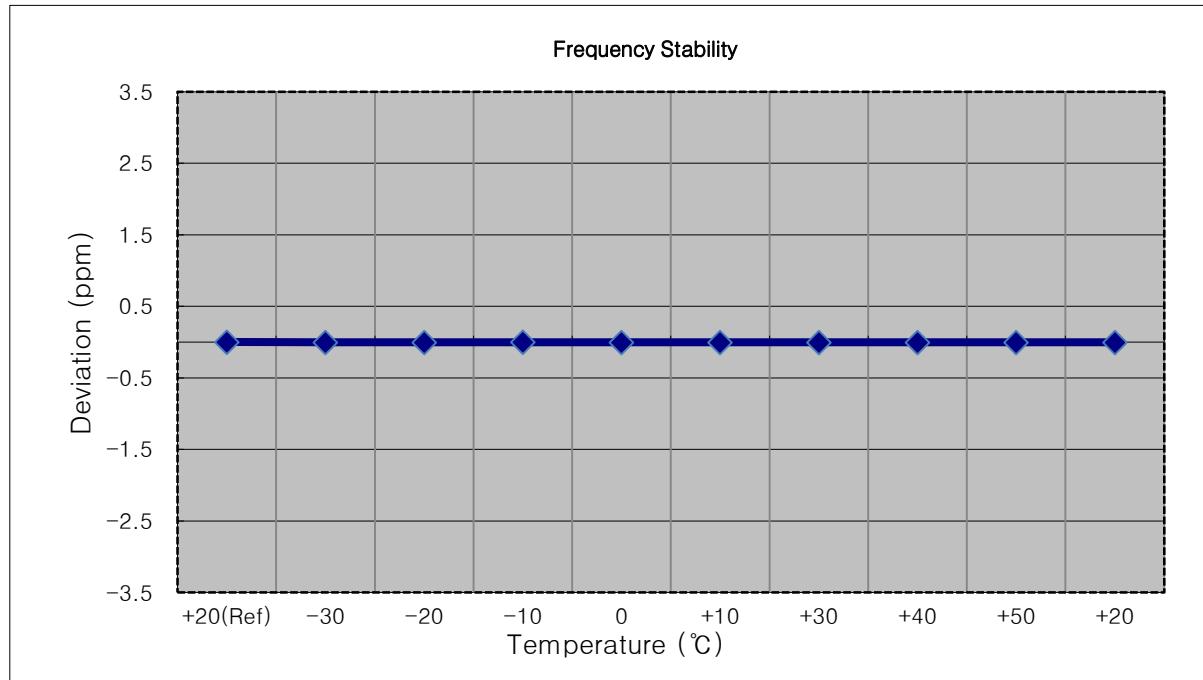
- MODE: LTE B25/B2  
 OPERATING FREQUENCY: 1907,500,000 Hz  
 CHANNEL: 26615 (15 MHz)  
 REFERENCE VOLTAGE: 3.86 VDC  
 DEVIATION LIMIT: Emission must remain in band

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1907 499 997	0.0	0.000 000	0.000
100%		-30	1907 499 994	-2.5	0.000 000	-0.001
100%		-20	1907 499 994	-2.7	0.000 000	-0.001
100%		-10	1907 499 988	-8.5	0.000 000	-0.004
100%		0	1907 499 990	-7.0	0.000 000	-0.004
100%		+10	1907 499 992	-4.4	0.000 000	-0.002
100%		+30	1907 499 991	-5.9	0.000 000	-0.003
100%		+40	1907 499 990	-7.1	0.000 000	-0.004
100%		+50	1907 499 991	-5.2	0.000 000	-0.003
Batt. Endpoint	3.400	+20	1907 499 990	-6.5	0.000 000	-0.003



- MODE: LTE B25/B2  
 OPERATING FREQUENCY: 1905,000,000 Hz  
 CHANNEL: 26590 (20 MHz)  
 REFERENCE VOLTAGE: 3.86 VDC  
 DEVIATION LIMIT: Emission must remain in band

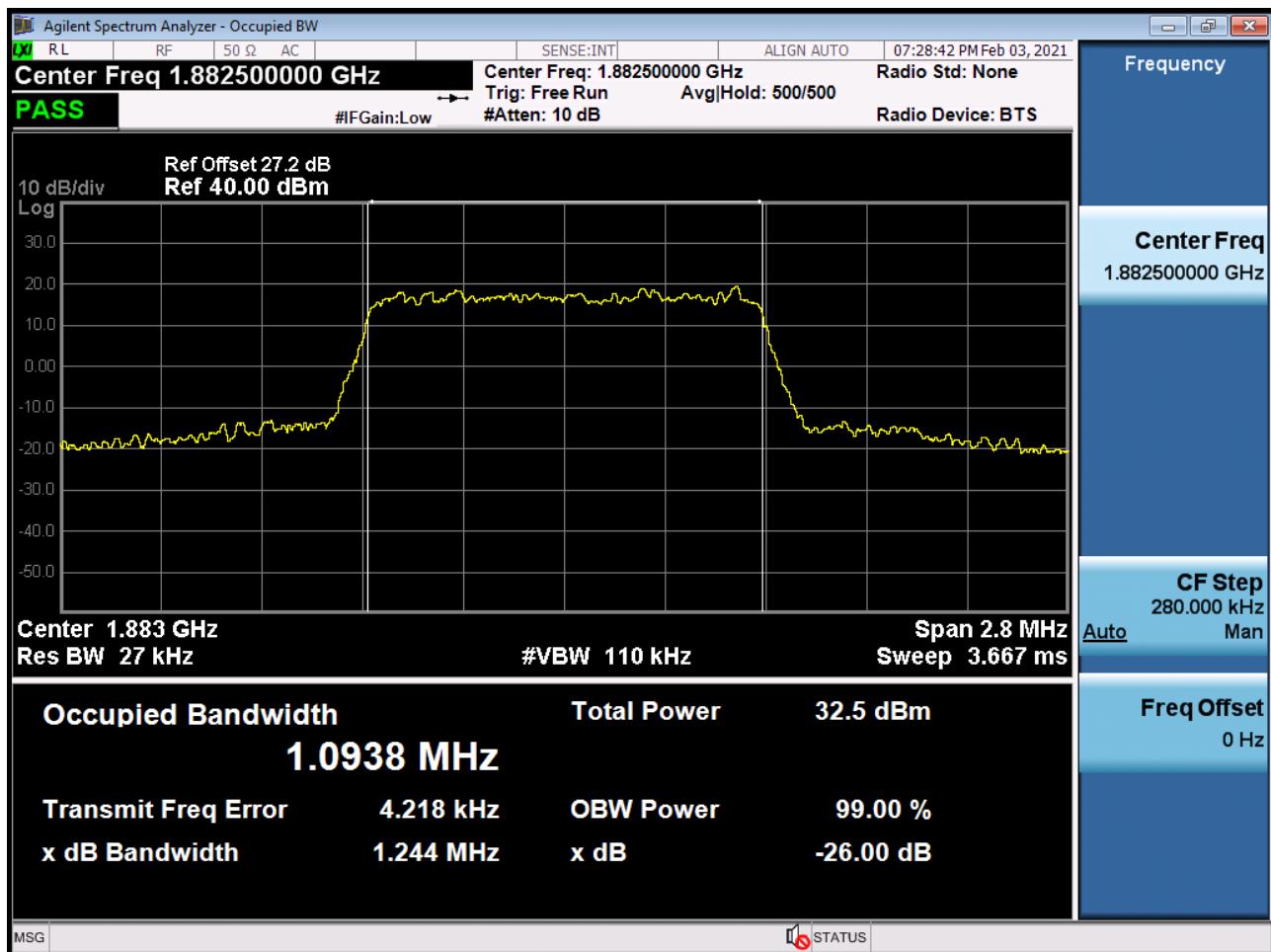
Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.860	+20(Ref)	1904 999 991	0.0	0.000 000	0.000
100%		-30	1904 999 985	-6.6	0.000 000	-0.003
100%		-20	1904 999 984	-7.9	0.000 000	-0.004
100%		-10	1904 999 987	-4.9	0.000 000	-0.003
100%		0	1904 999 983	-8.3	0.000 000	-0.004
100%		+10	1904 999 984	-7.5	0.000 000	-0.004
100%		+30	1904 999 985	-6.0	0.000 000	-0.003
100%		+40	1904 999 985	-6.7	0.000 000	-0.004
100%		+50	1904 999 982	-9.1	0.000 000	-0.005
Batt. Endpoint	3.400	+20	1904 999 985	-6.0	0.000 000	-0.003



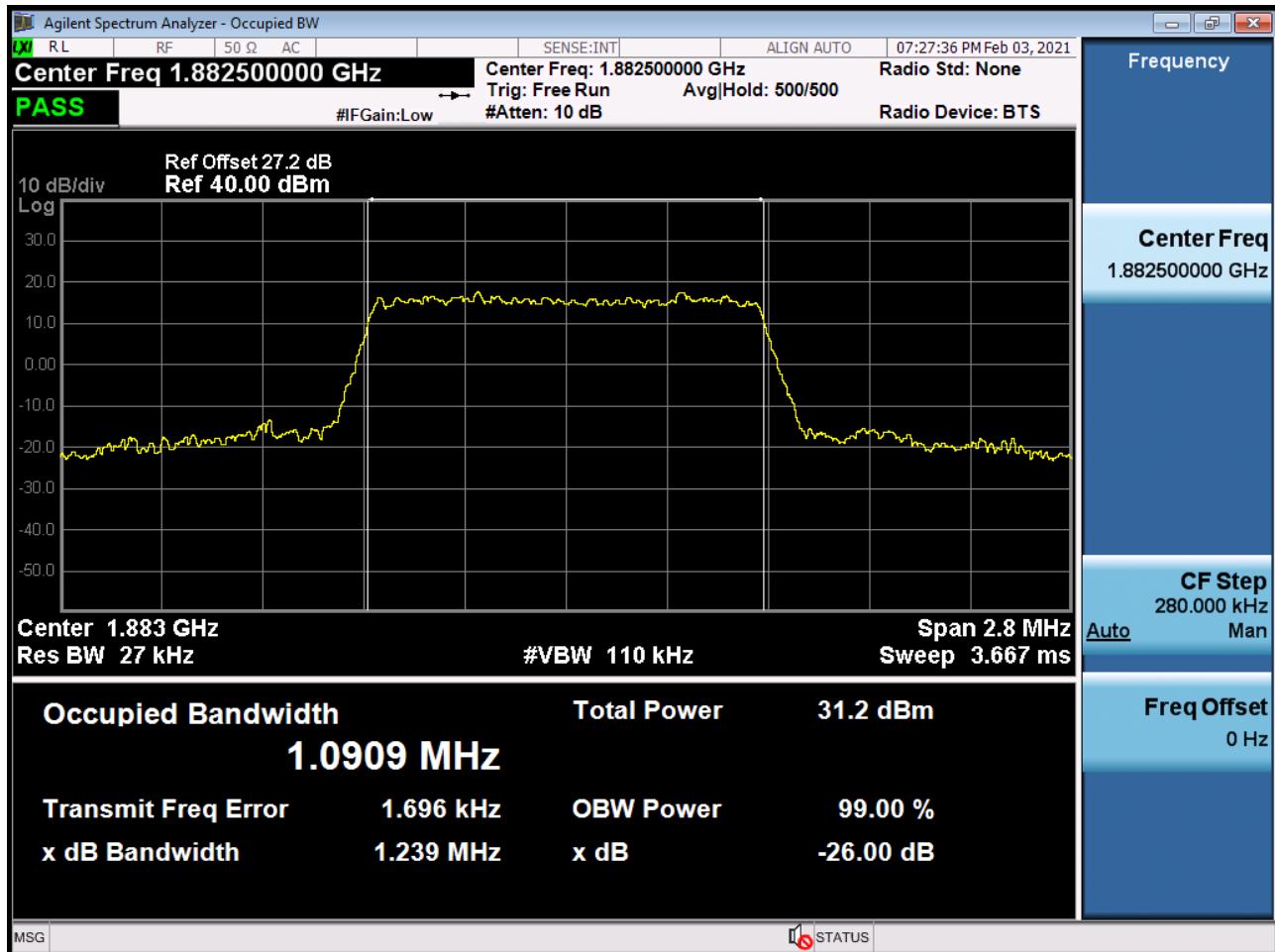
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## 9. TEST PLOTS

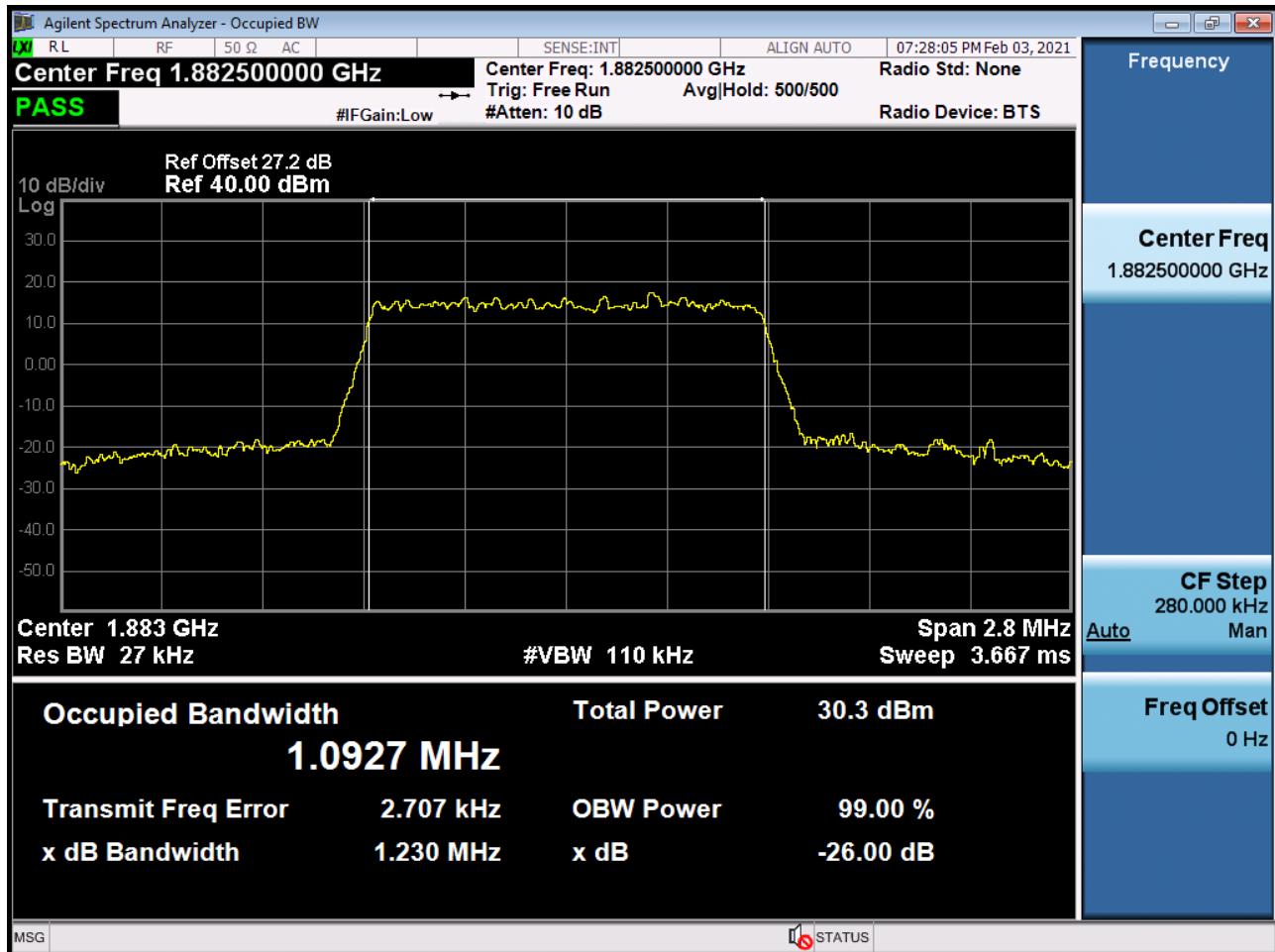
BAND 25/2. Occupied Bandwidth Plot (1.4M BW Ch.26365 QPSK RB 6\_0)



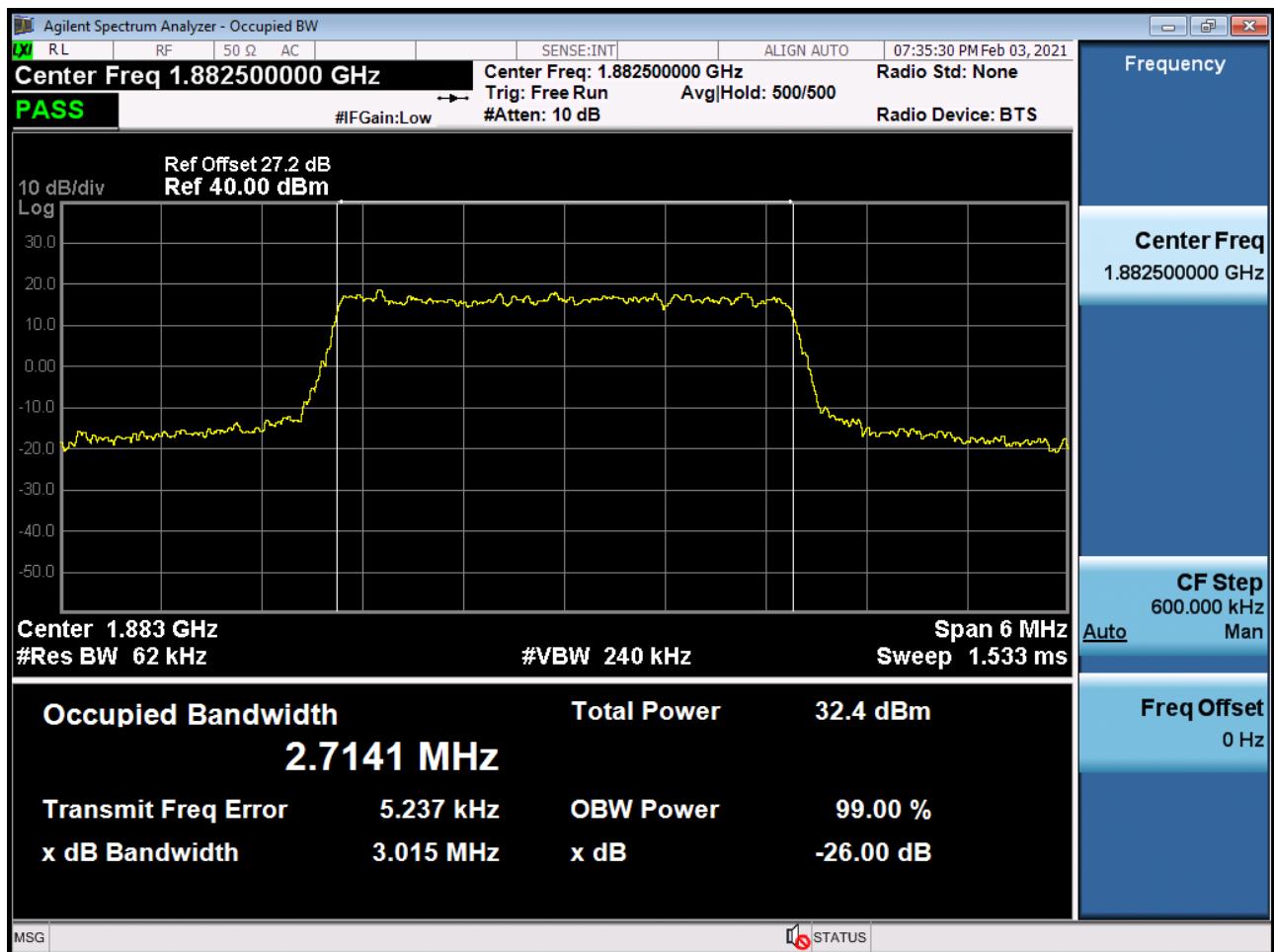
BAND 25/2. Occupied Bandwidth Plot (1.4M BW Ch.26365 16QAM RB 6\_0)



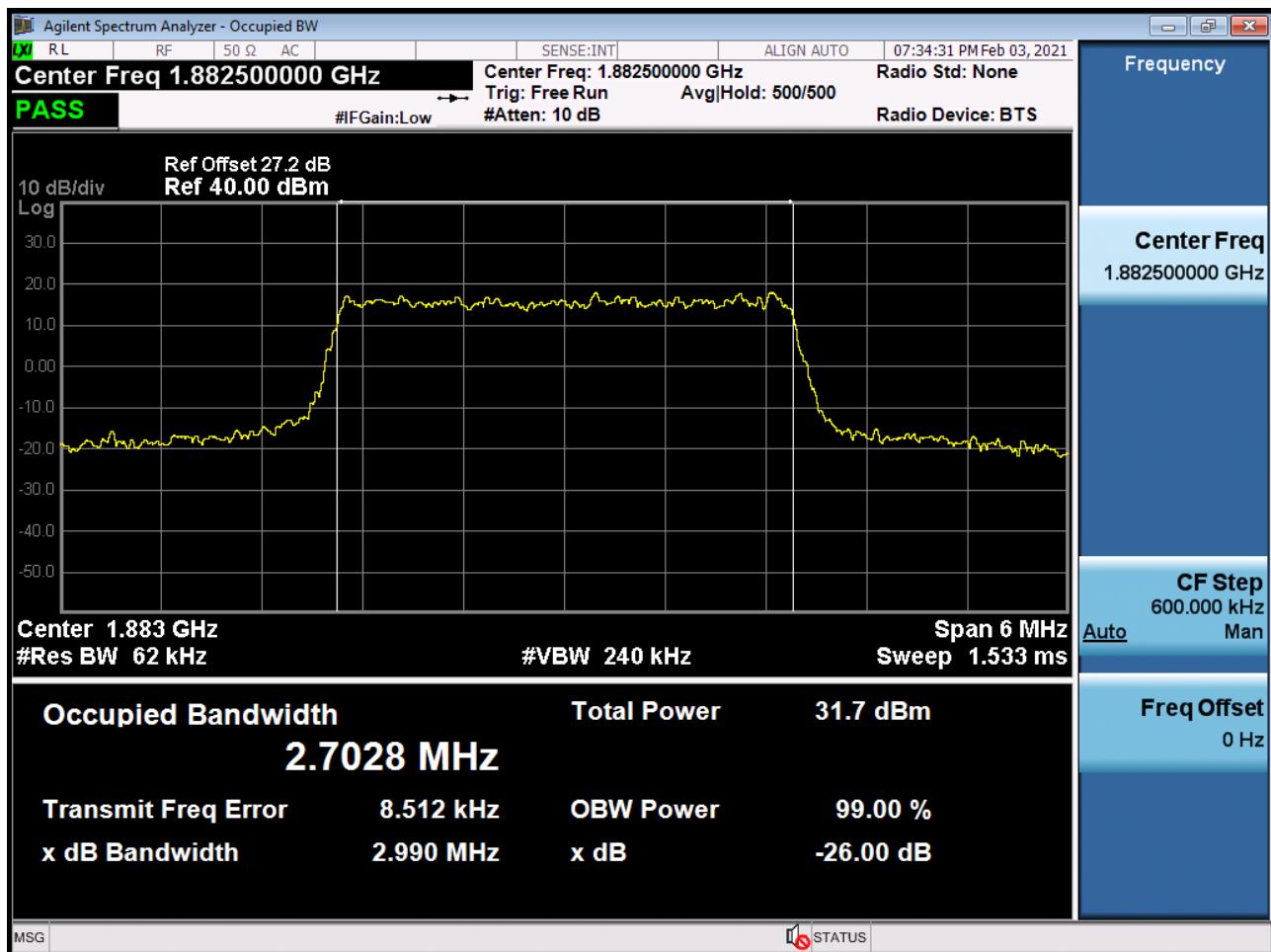
BAND 25/2. Occupied Bandwidth Plot (1.4M BW Ch.26365 64QAM RB 6\_0)



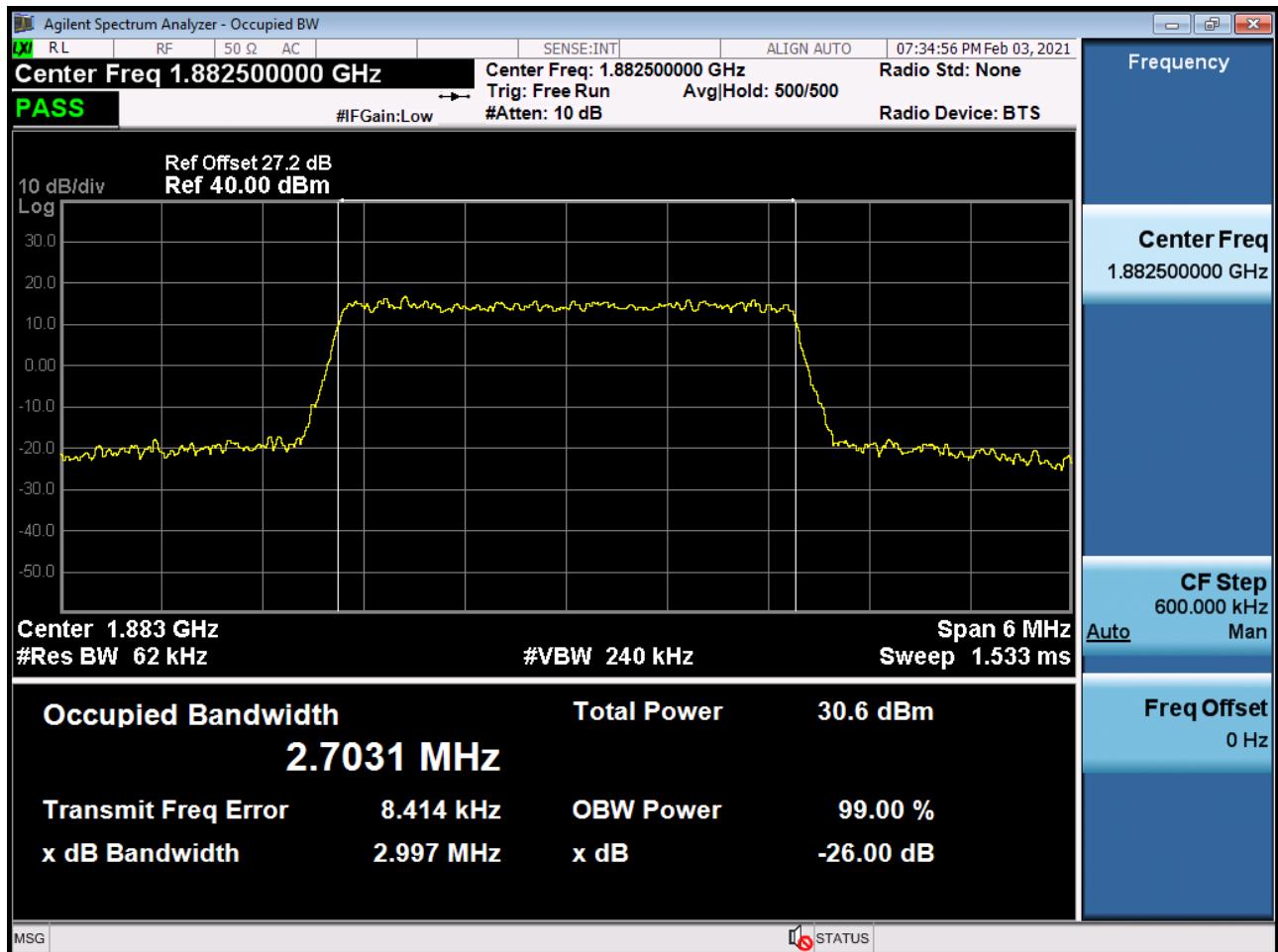
BAND 25/2. Occupied Bandwidth Plot (3M BW Ch.26365 QPSK RB 15\_0)



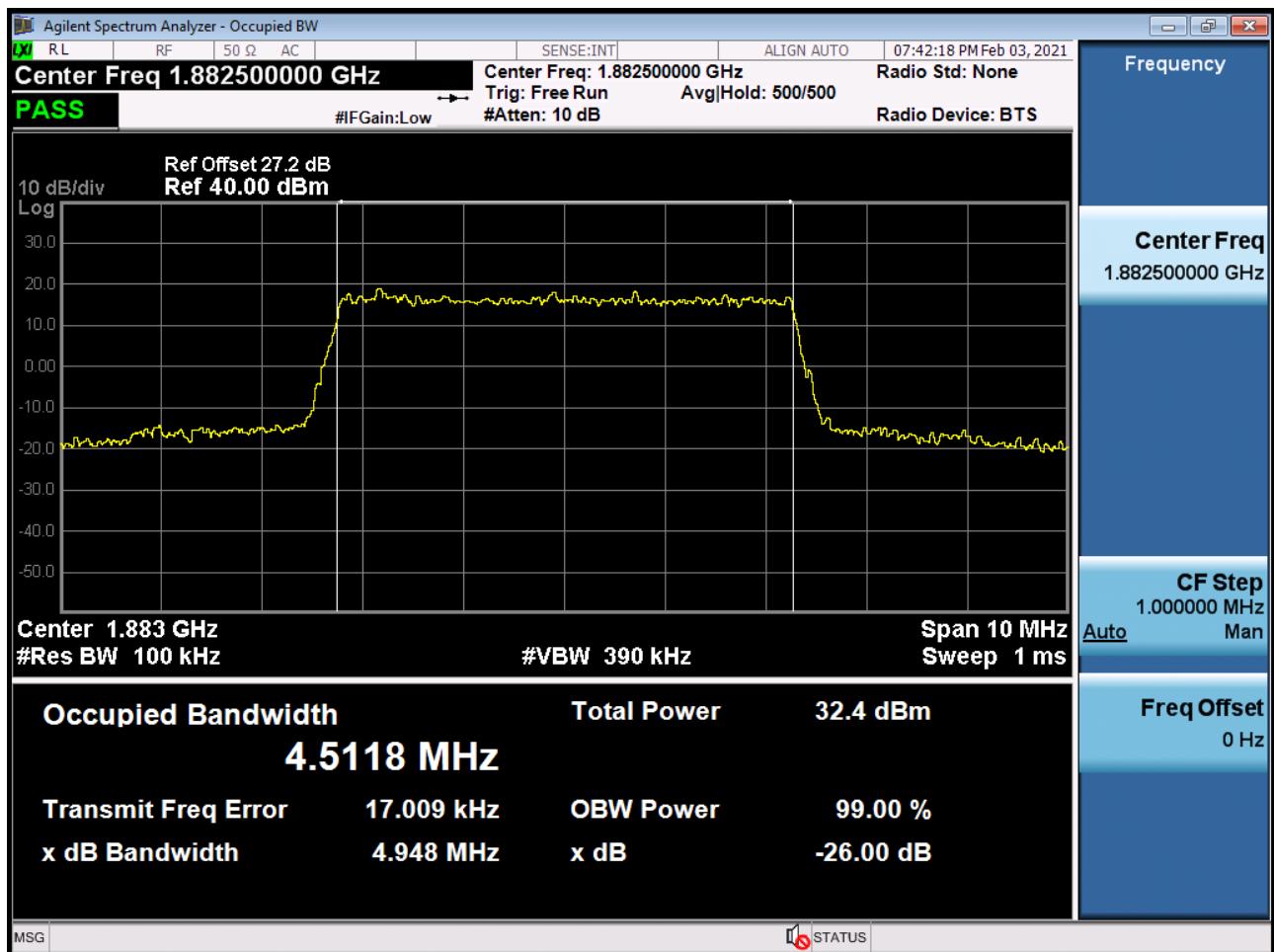
BAND 25/2. Occupied Bandwidth Plot (3M BW Ch.26365 16QAM RB 15\_0)



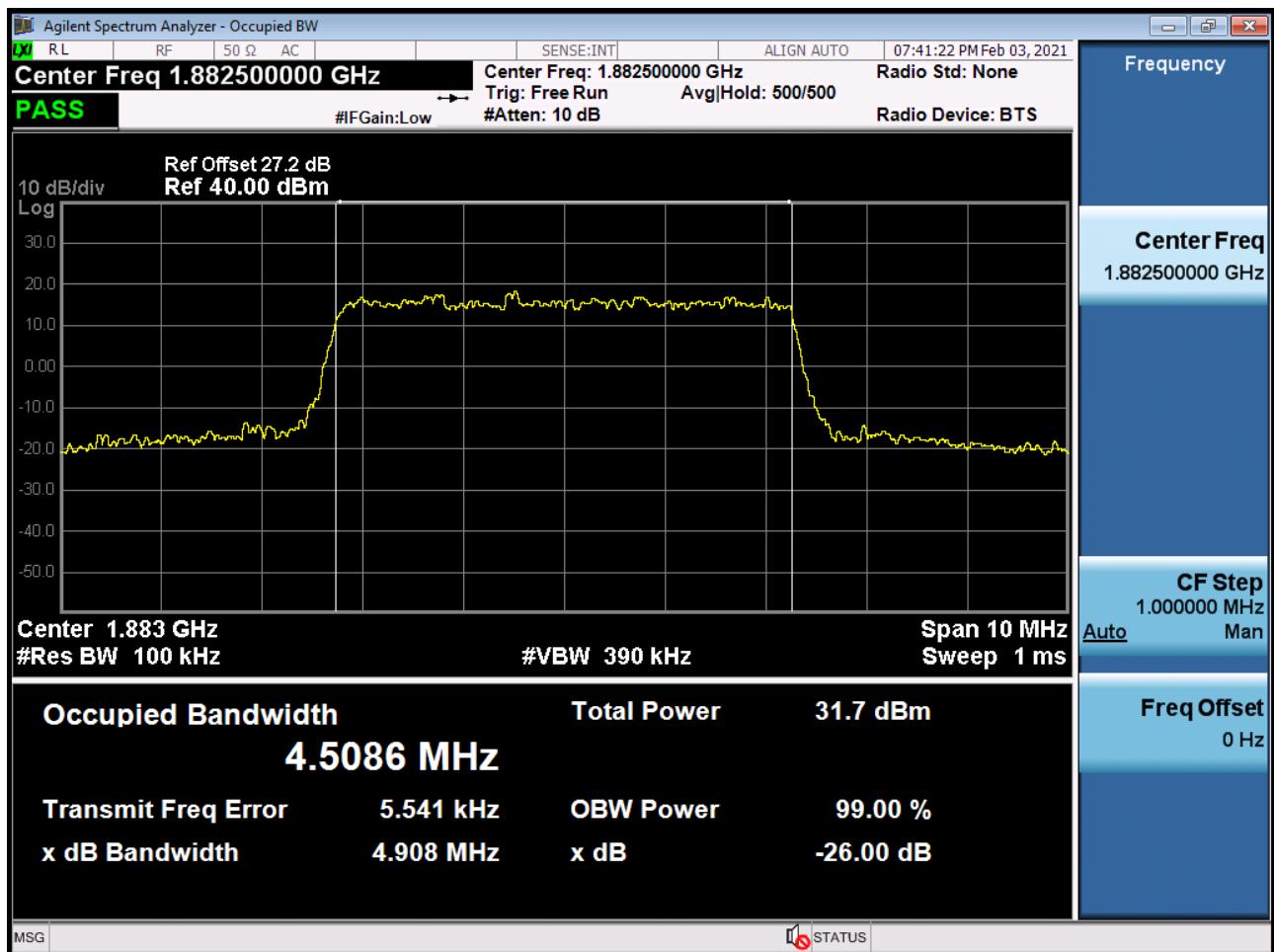
BAND 25/2. Occupied Bandwidth Plot (3M BW Ch.26365 64QAM RB 15\_0)



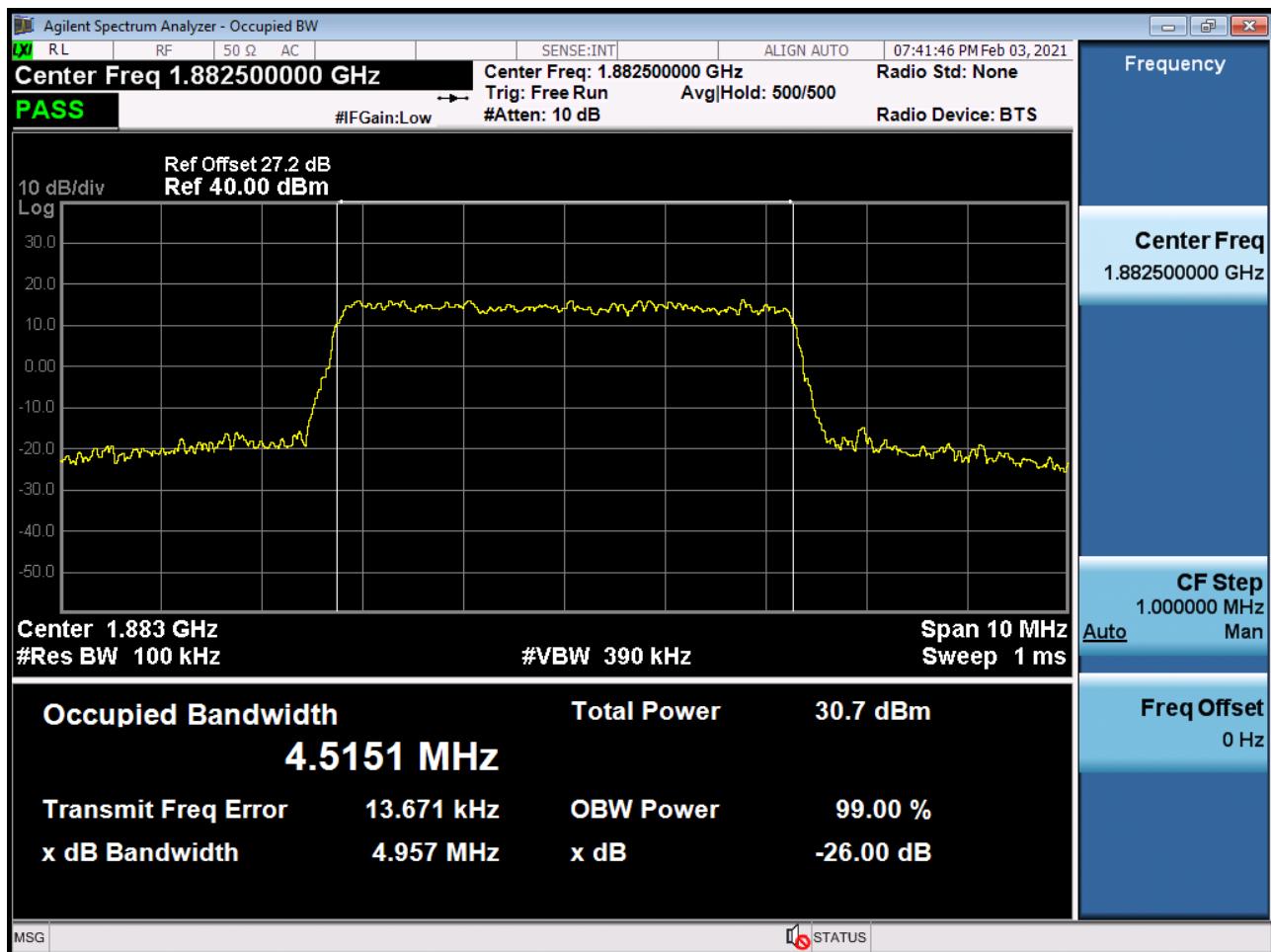
BAND 25/2. Occupied Bandwidth Plot (5M BW Ch.26365 QPSK RB 25\_0)



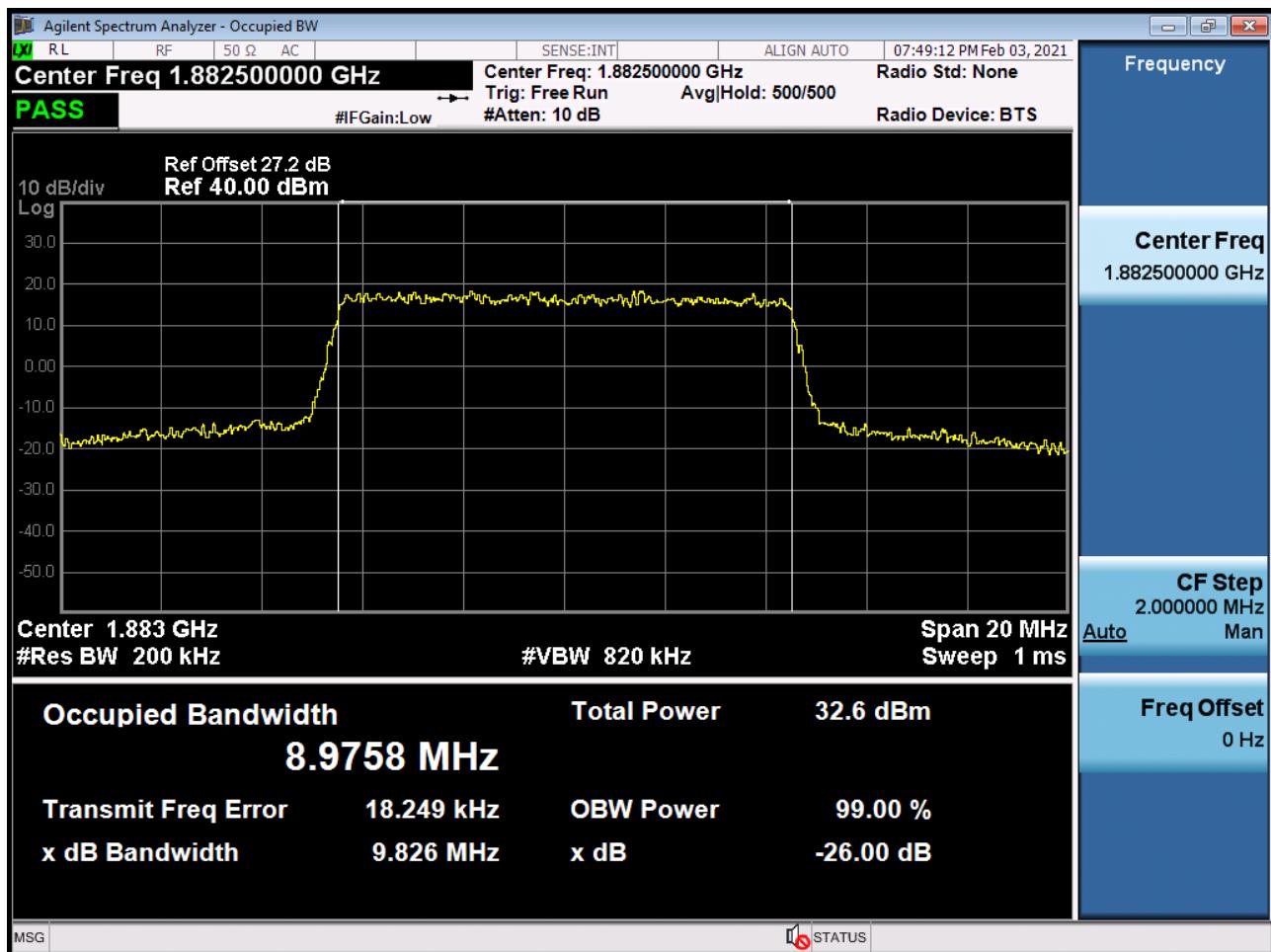
BAND 25/2. Occupied Bandwidth Plot (5M BW Ch.26365 16QAM RB 25\_0)



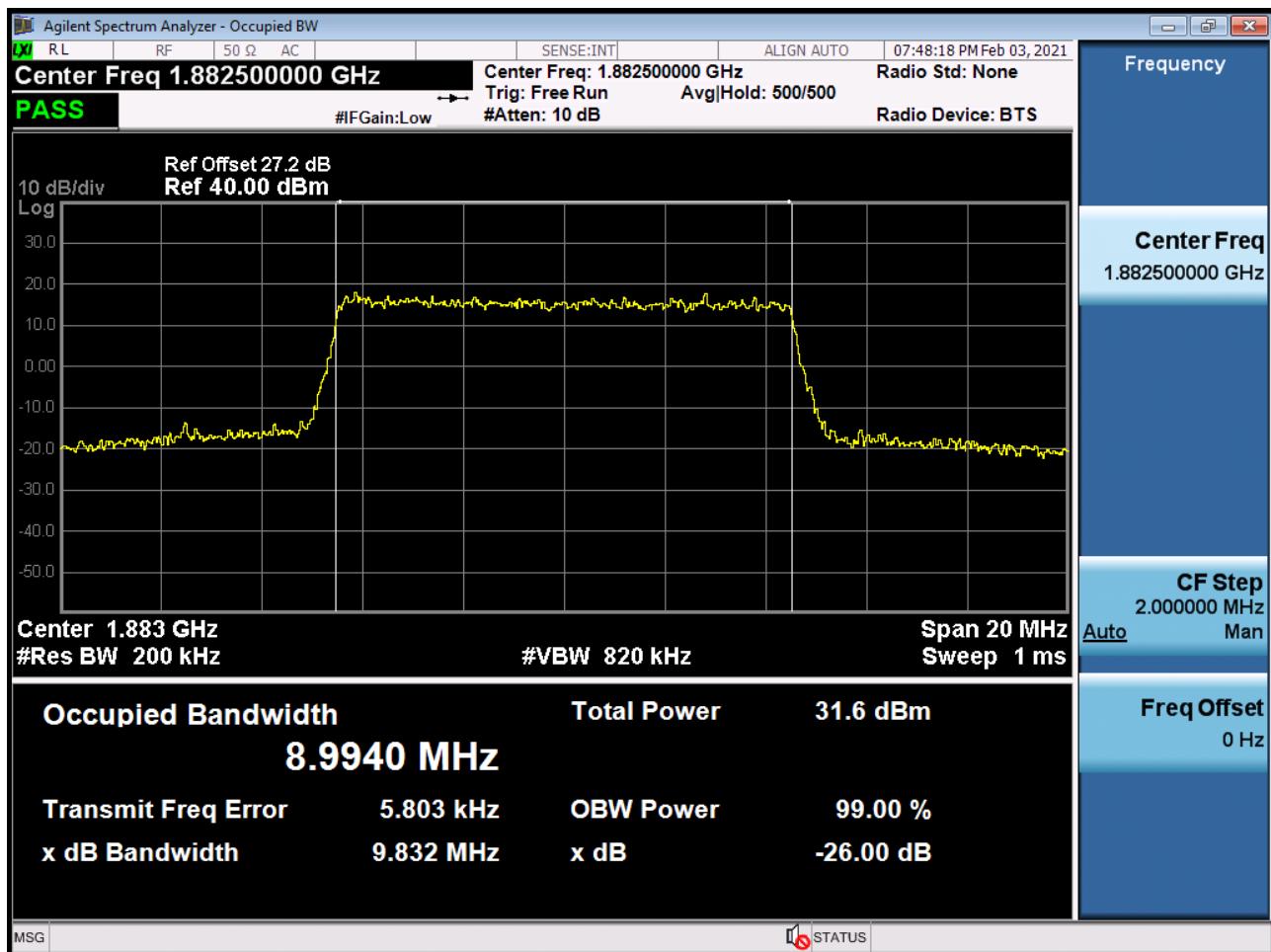
BAND 25/2. Occupied Bandwidth Plot (5M BW Ch.26365 64QAM RB 25\_0)



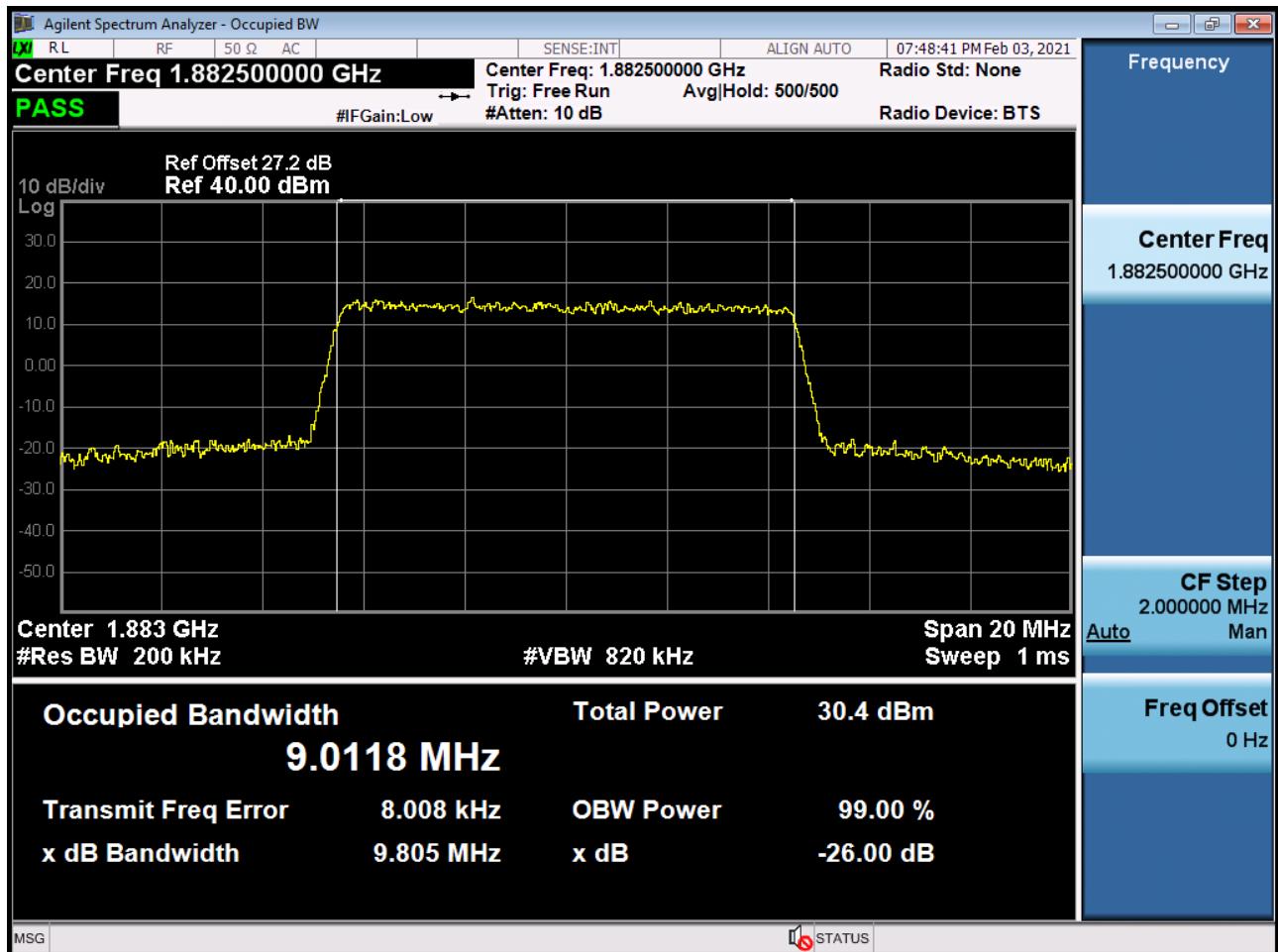
BAND 25/2. Occupied Bandwidth Plot (10M BW Ch.26365 QPSK RB 50\_0)



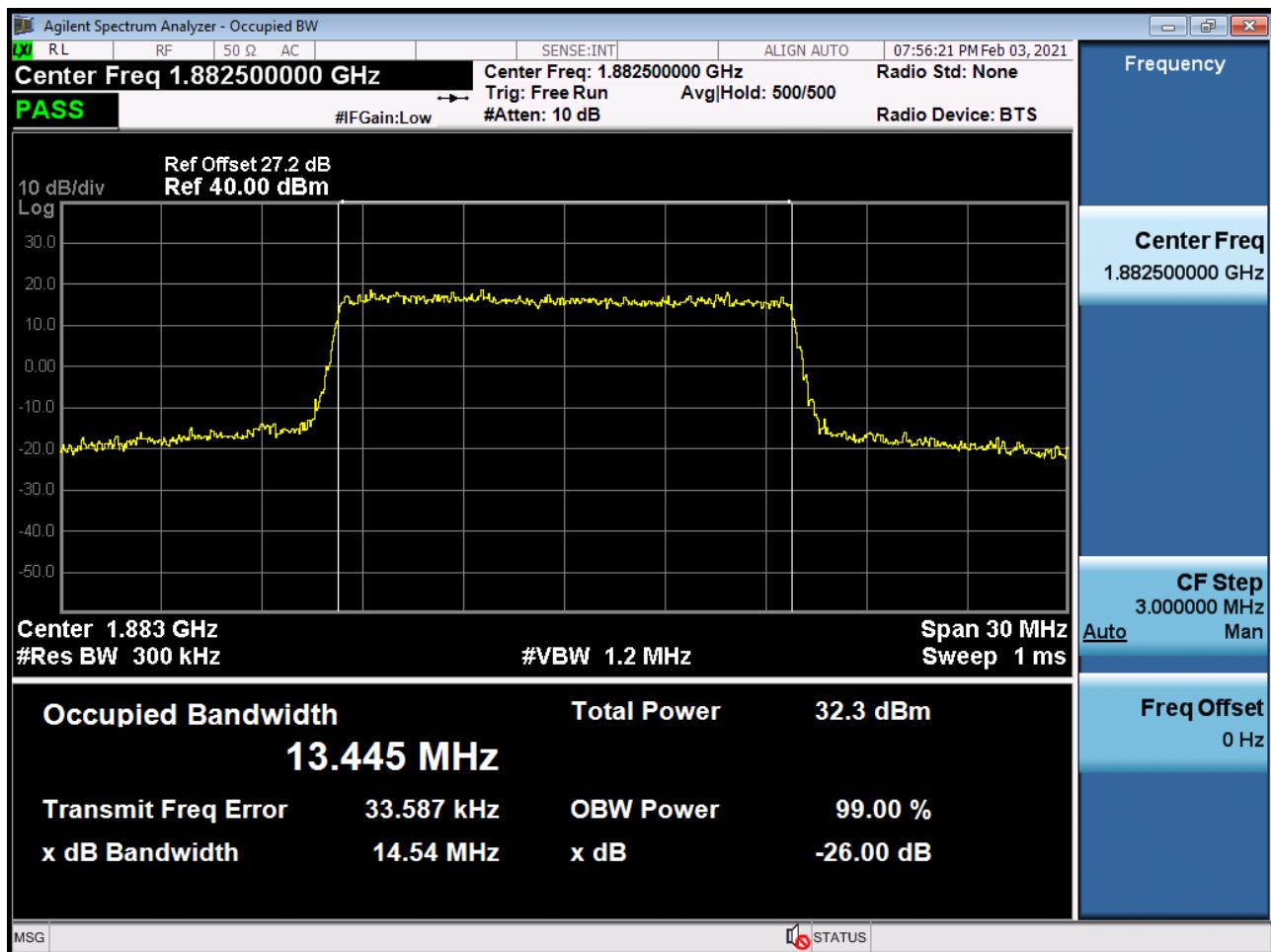
BAND 25/2. Occupied Bandwidth Plot (10M BW Ch.26365 16QAM RB 50\_0)



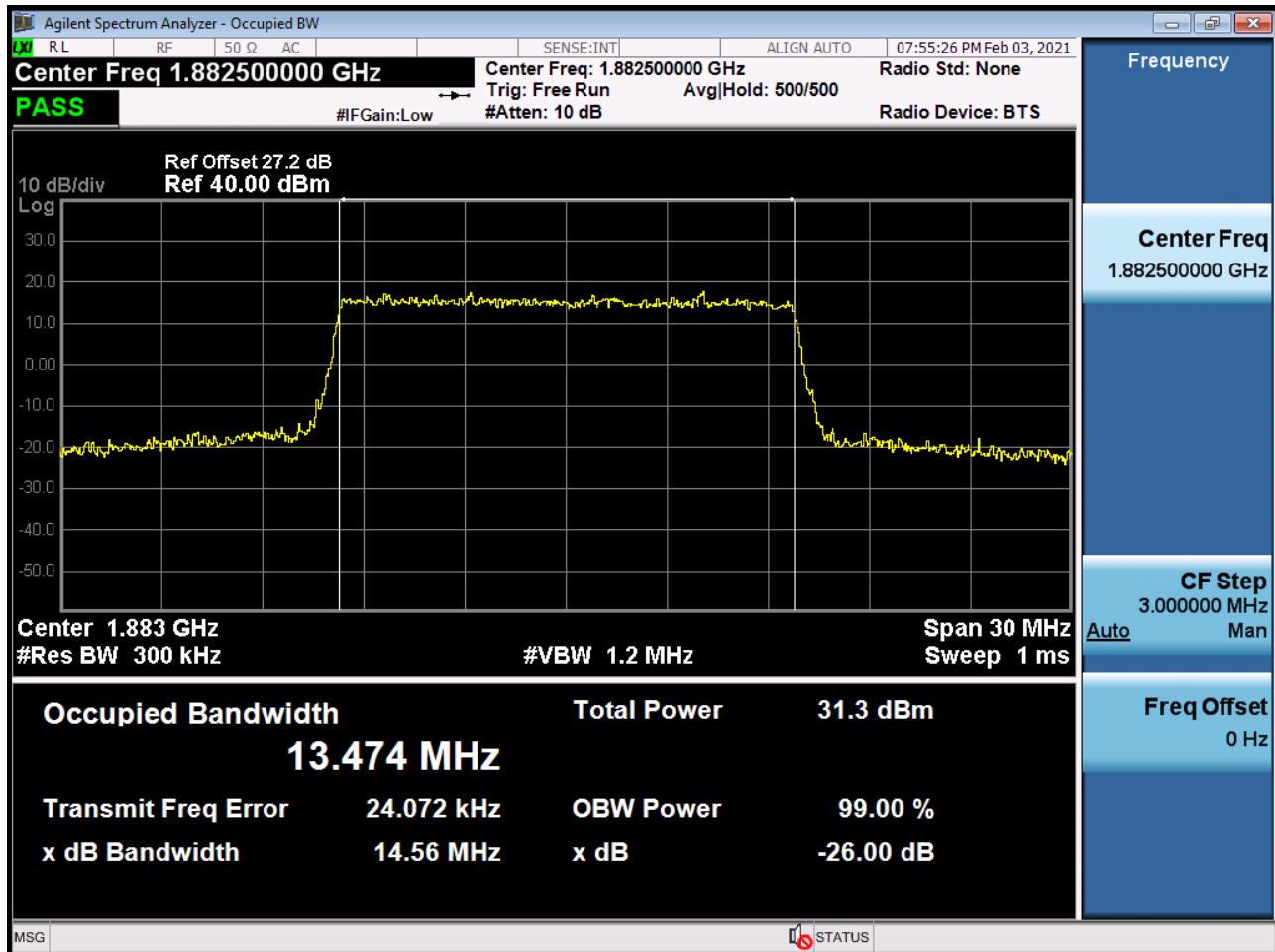
BAND 25/2. Occupied Bandwidth Plot (10M BW Ch.26365 64QAM RB 50\_0)



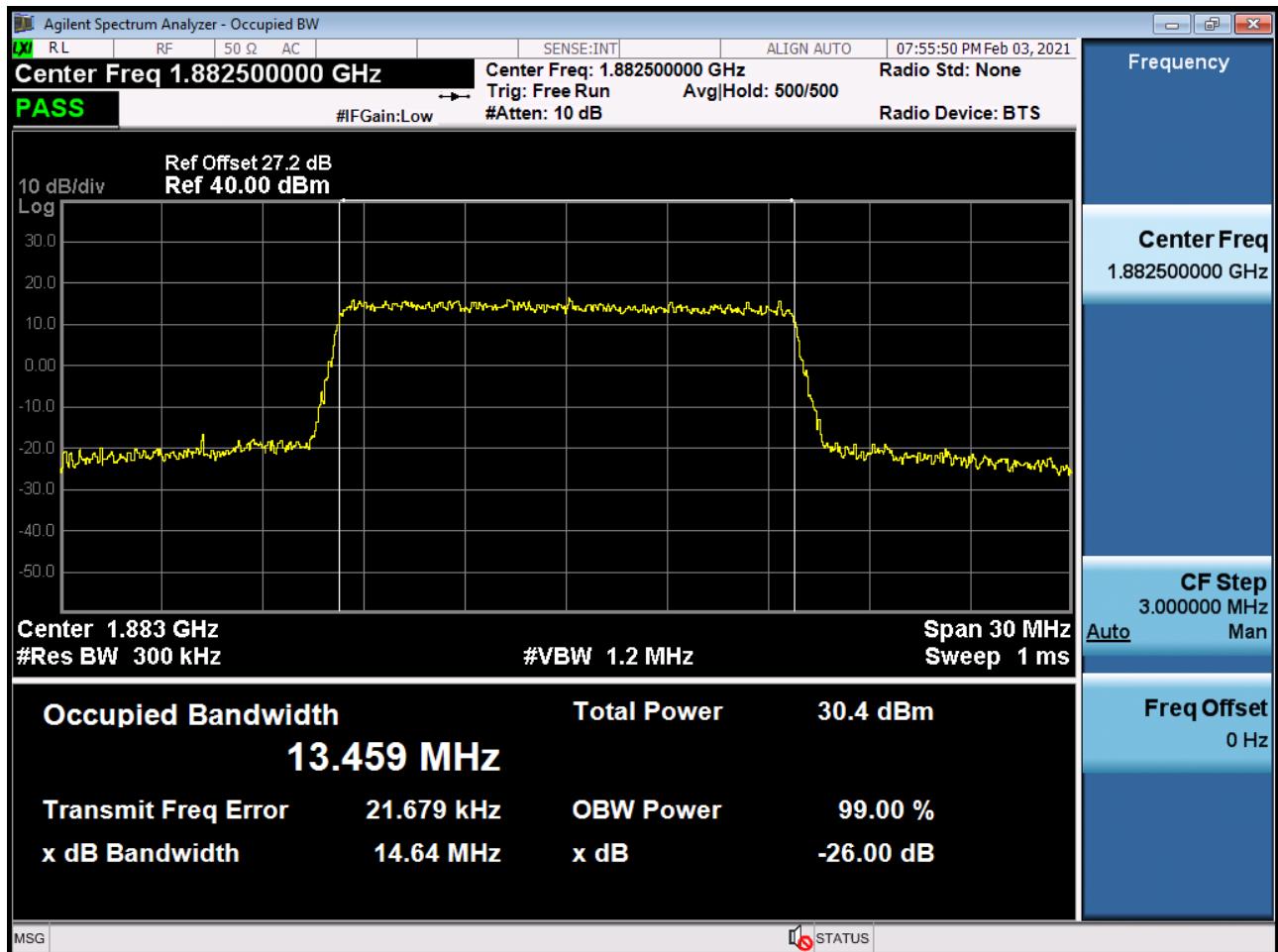
BAND 25/2. Occupied Bandwidth Plot (15M BW Ch.26365 QPSK RB 75\_0)



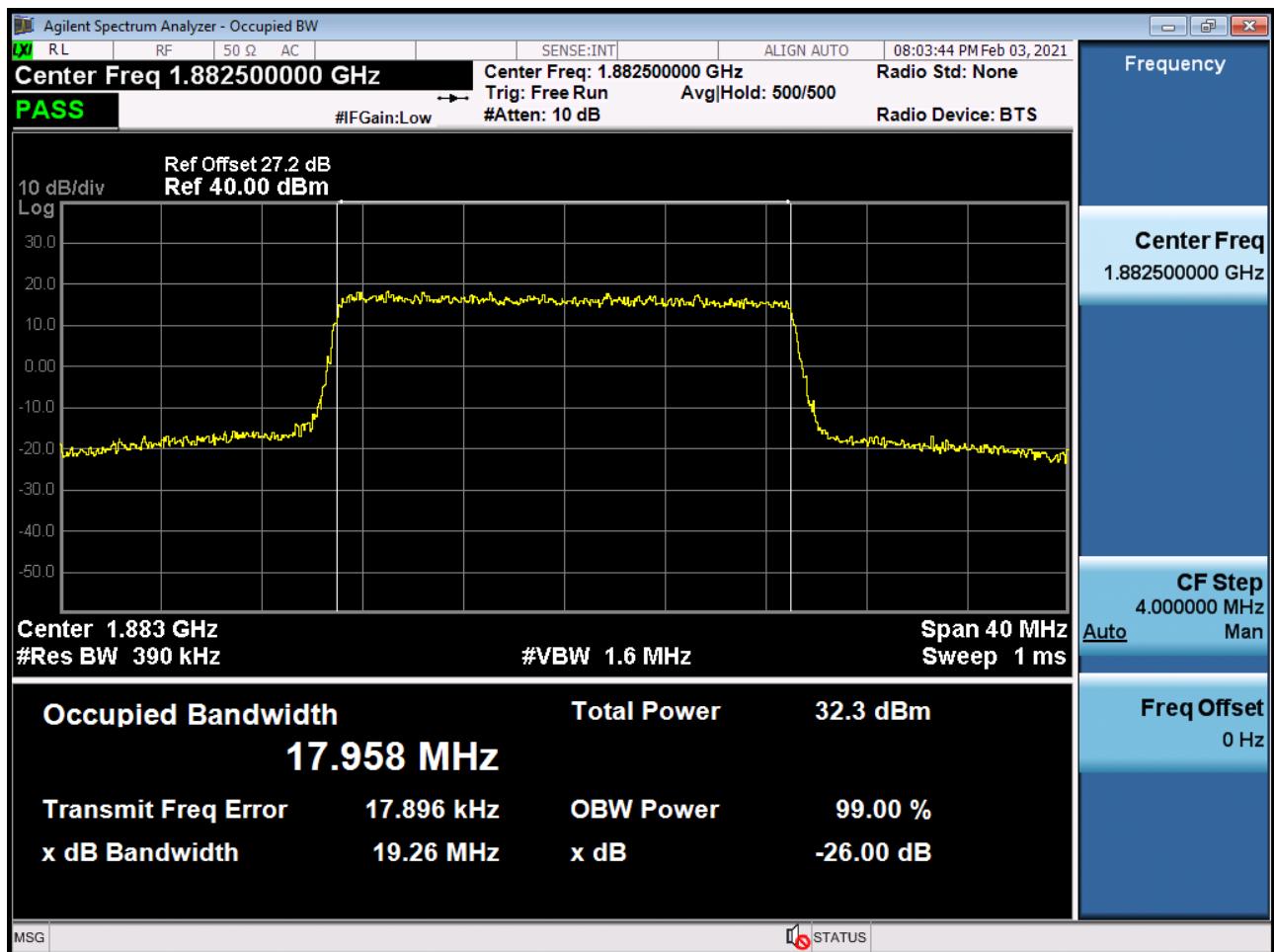
BAND 25/2. Occupied Bandwidth Plot (15M BW Ch.26365 16QAM RB 75\_0)



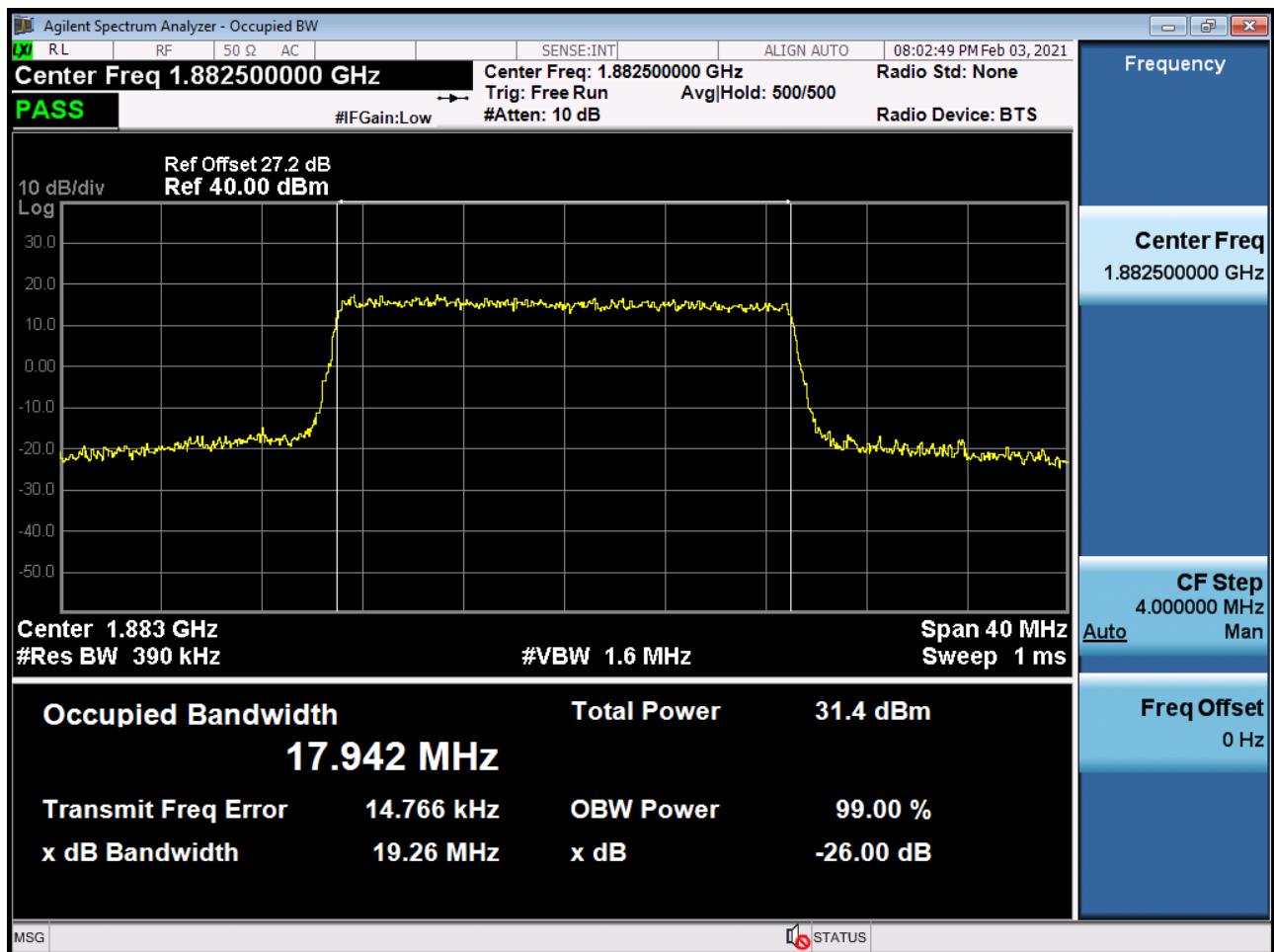
BAND 25/2. Occupied Bandwidth Plot (15M BW Ch.26365 64QAM RB 75\_0)



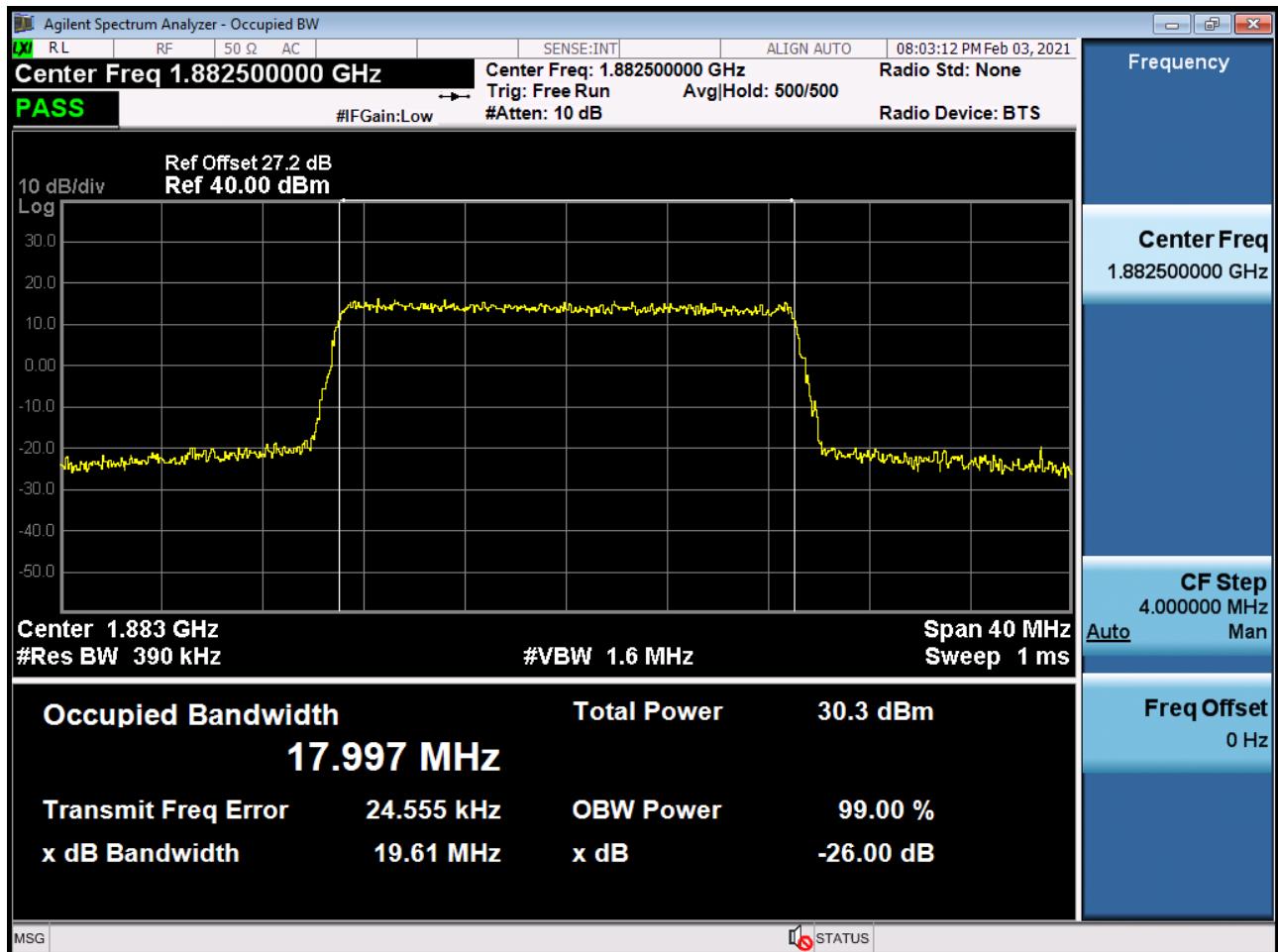
BAND 25/2. Occupied Bandwidth Plot (20M BW Ch.26365 QPSK RB 100\_0)



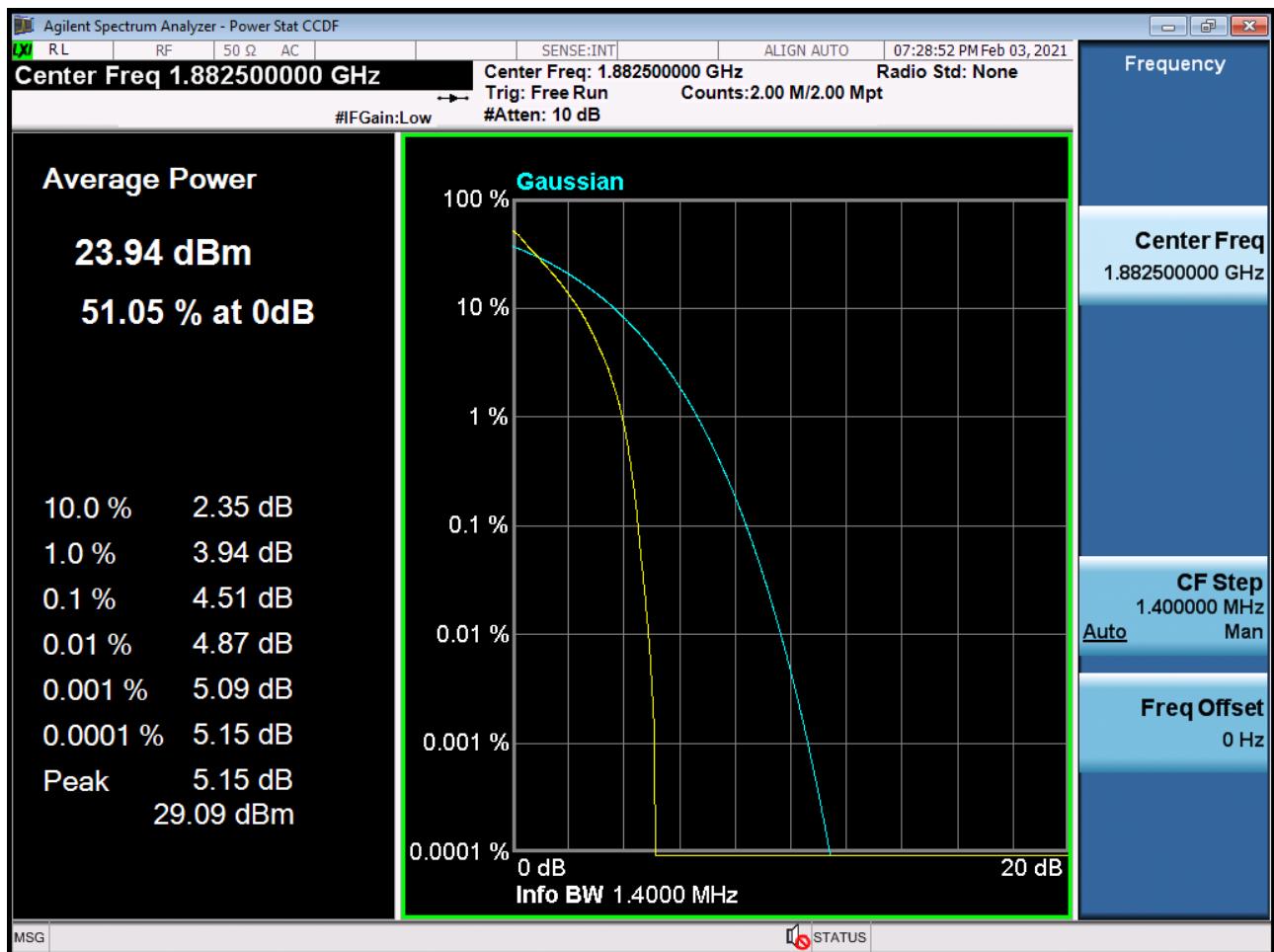
BAND 25/2. Occupied Bandwidth Plot (20M BW Ch.26365 16QAM RB 100\_0)



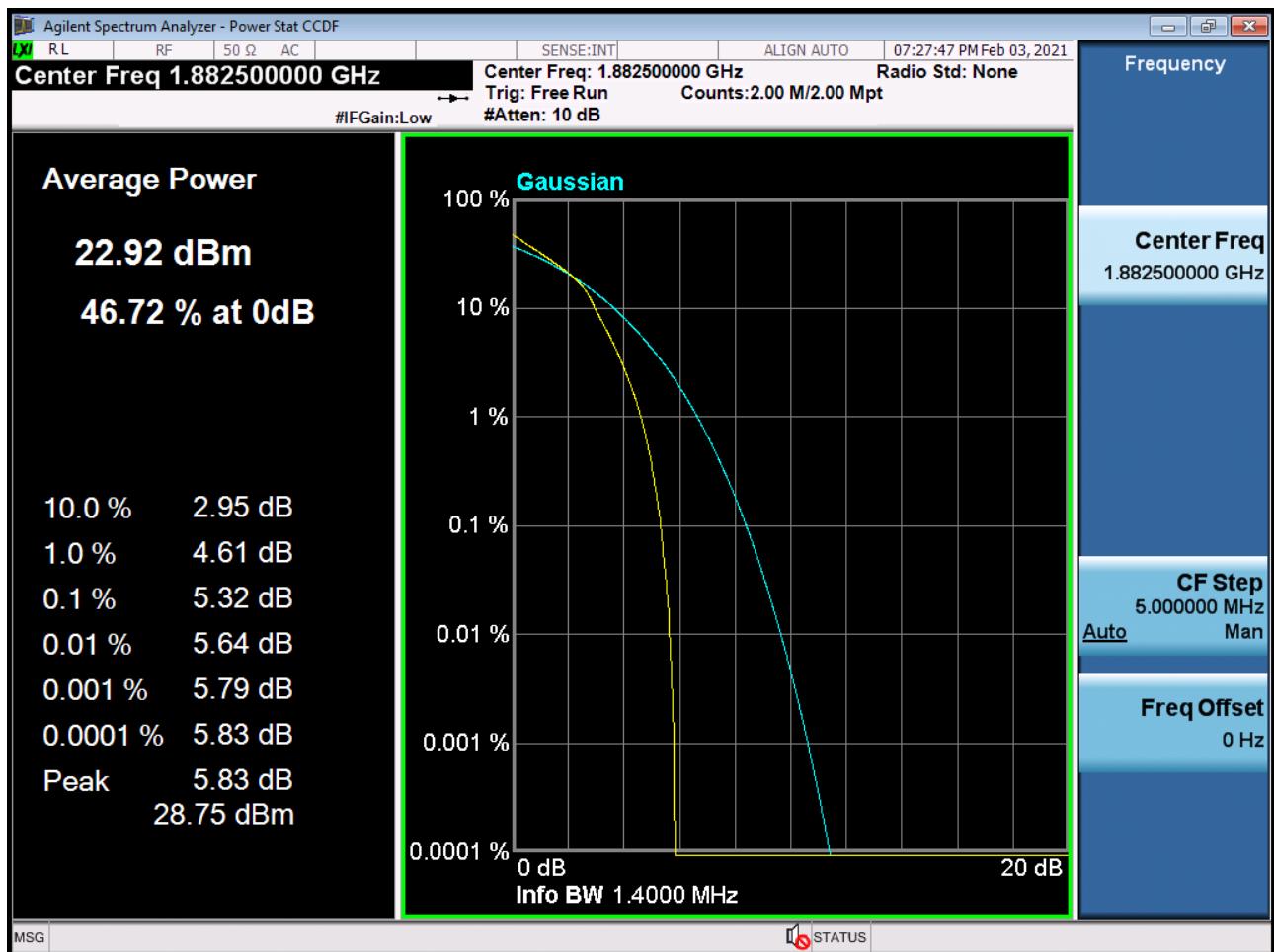
BAND 25/2. Occupied Bandwidth Plot (20M BW Ch.26365 64QAM RB 100\_0)



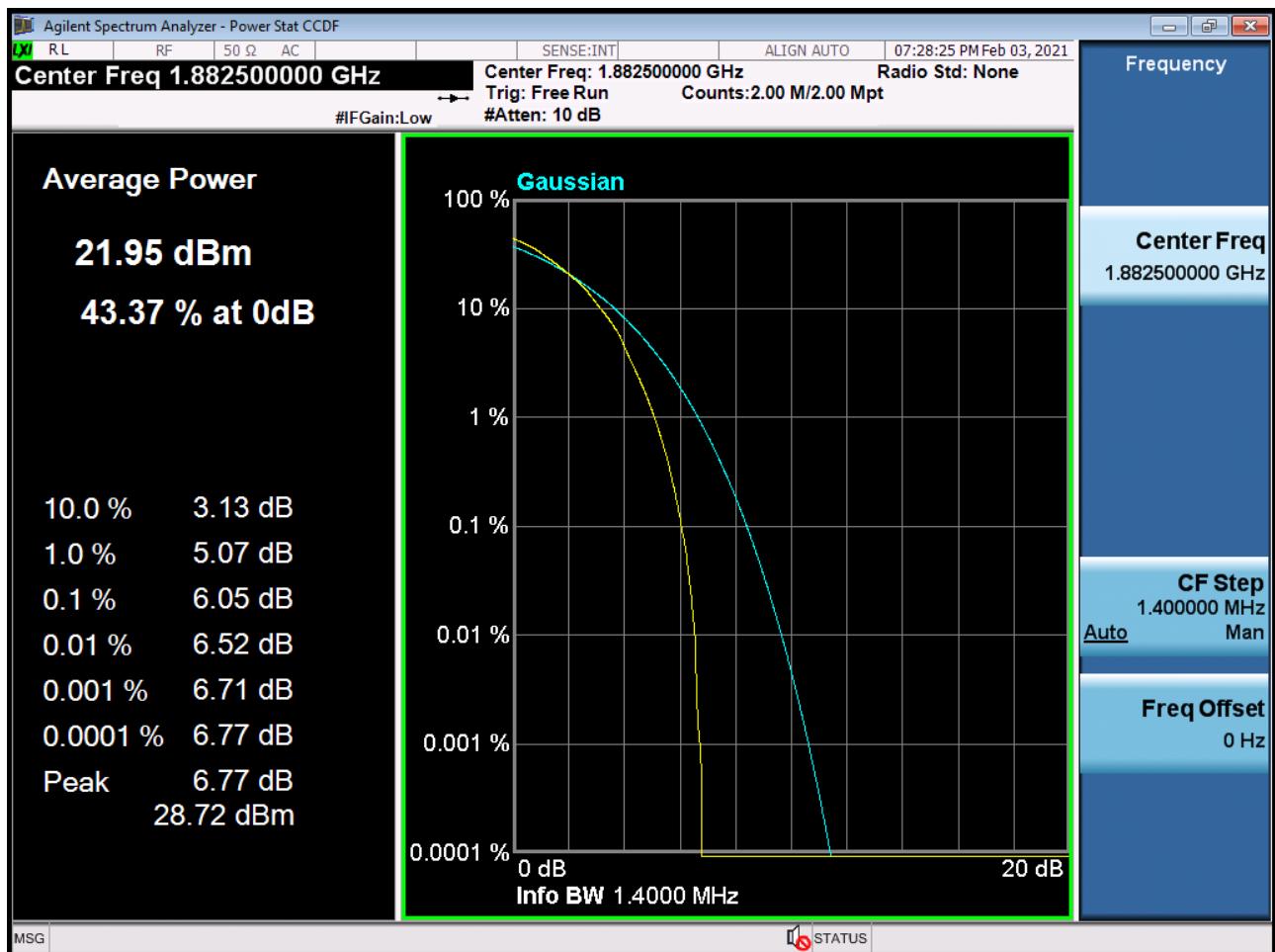
BAND 25/2. PAR Plot (1.4M BW Ch.26365 QPSK RB 6\_0)



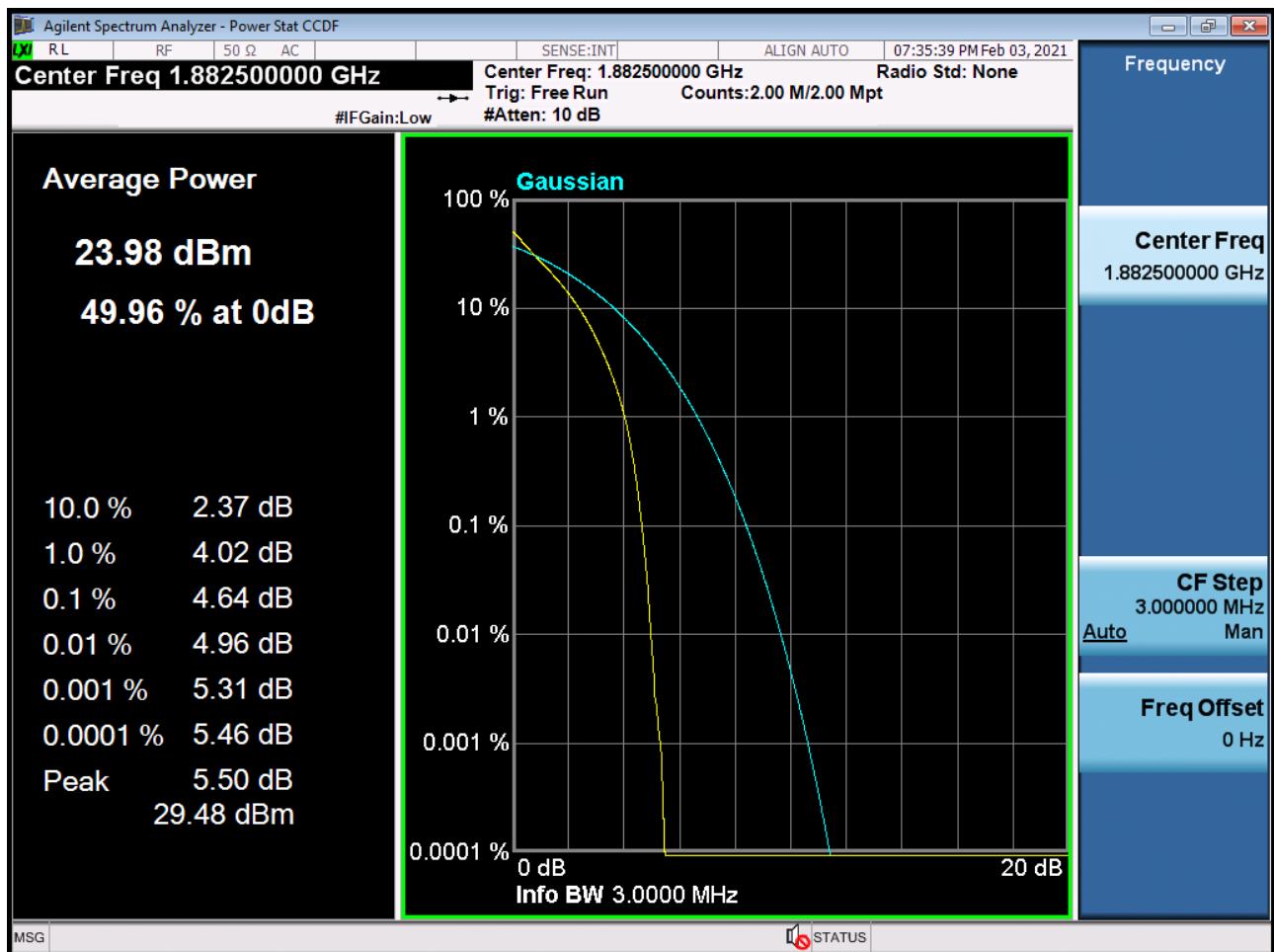
BAND 25/2. PAR Plot (1.4M BW Ch.26365 16QAM RB 6\_0)



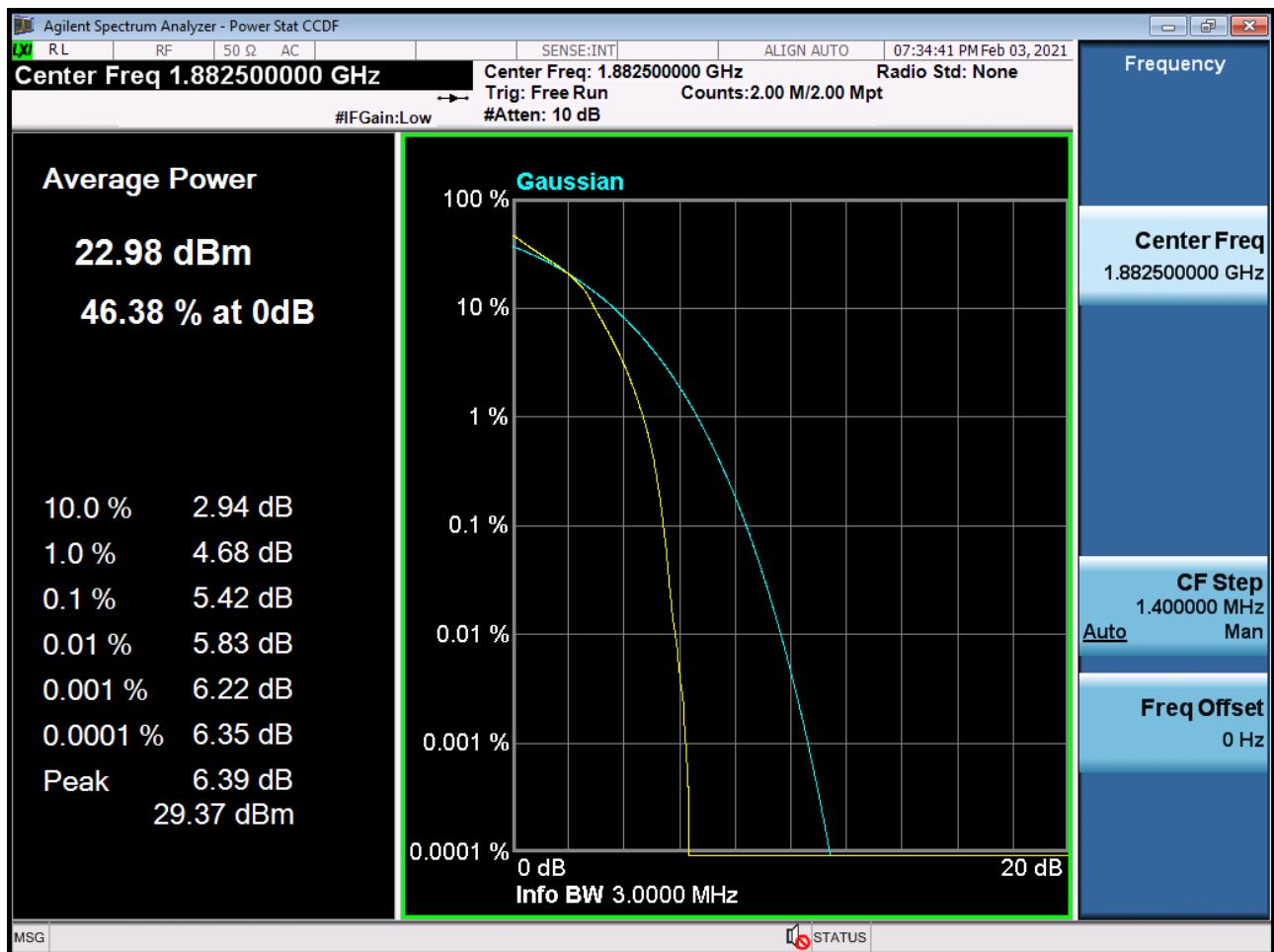
BAND 25/2. PAR Plot (1.4M BW Ch.26365 64QAM RB 6\_0)



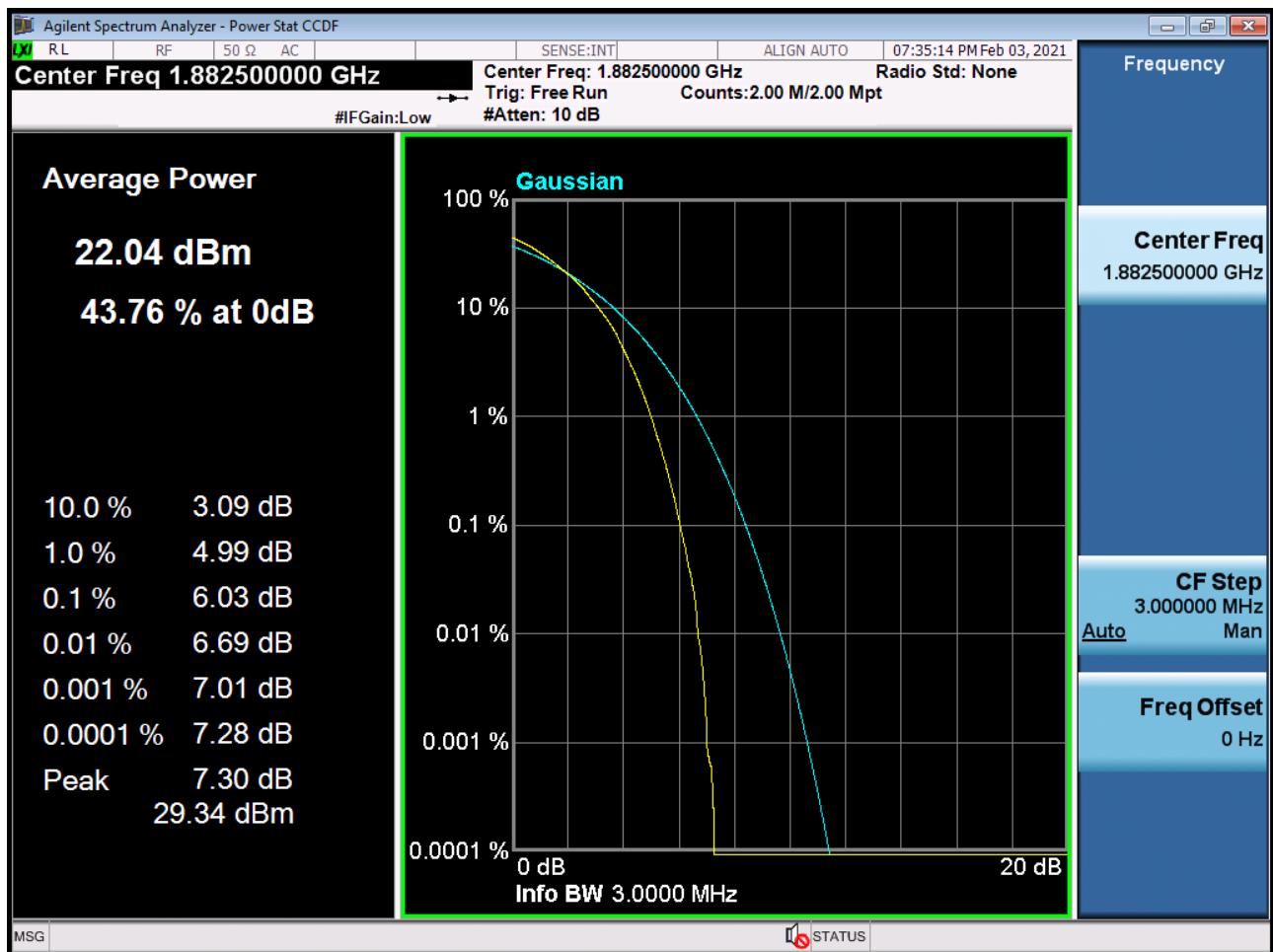
BAND 25/2. PAR Plot (3M BW Ch.26365 QPSK RB 15\_0)



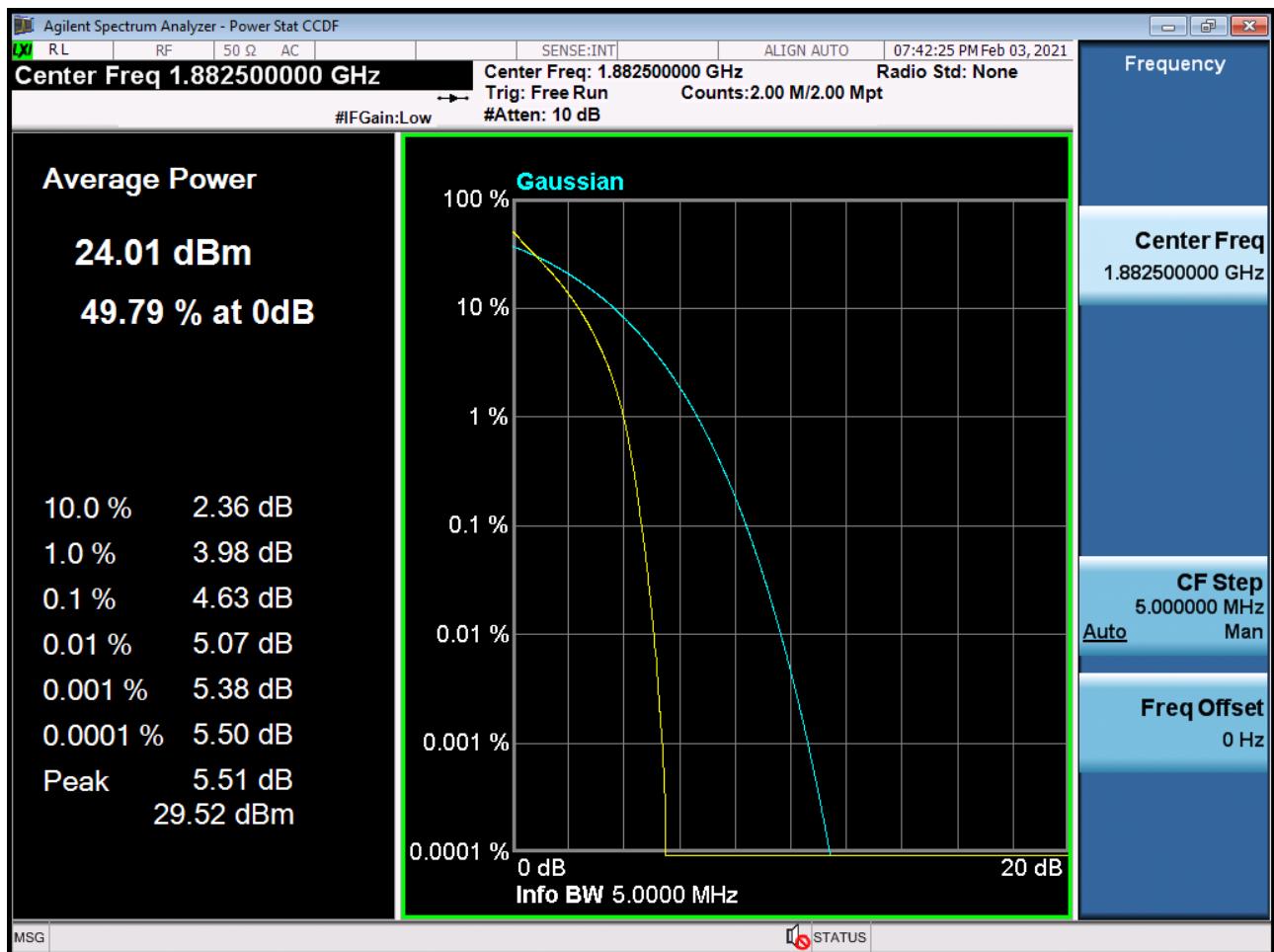
BAND 25/2. PAR Plot (3M BW Ch.26365 16QAM RB 15\_0)



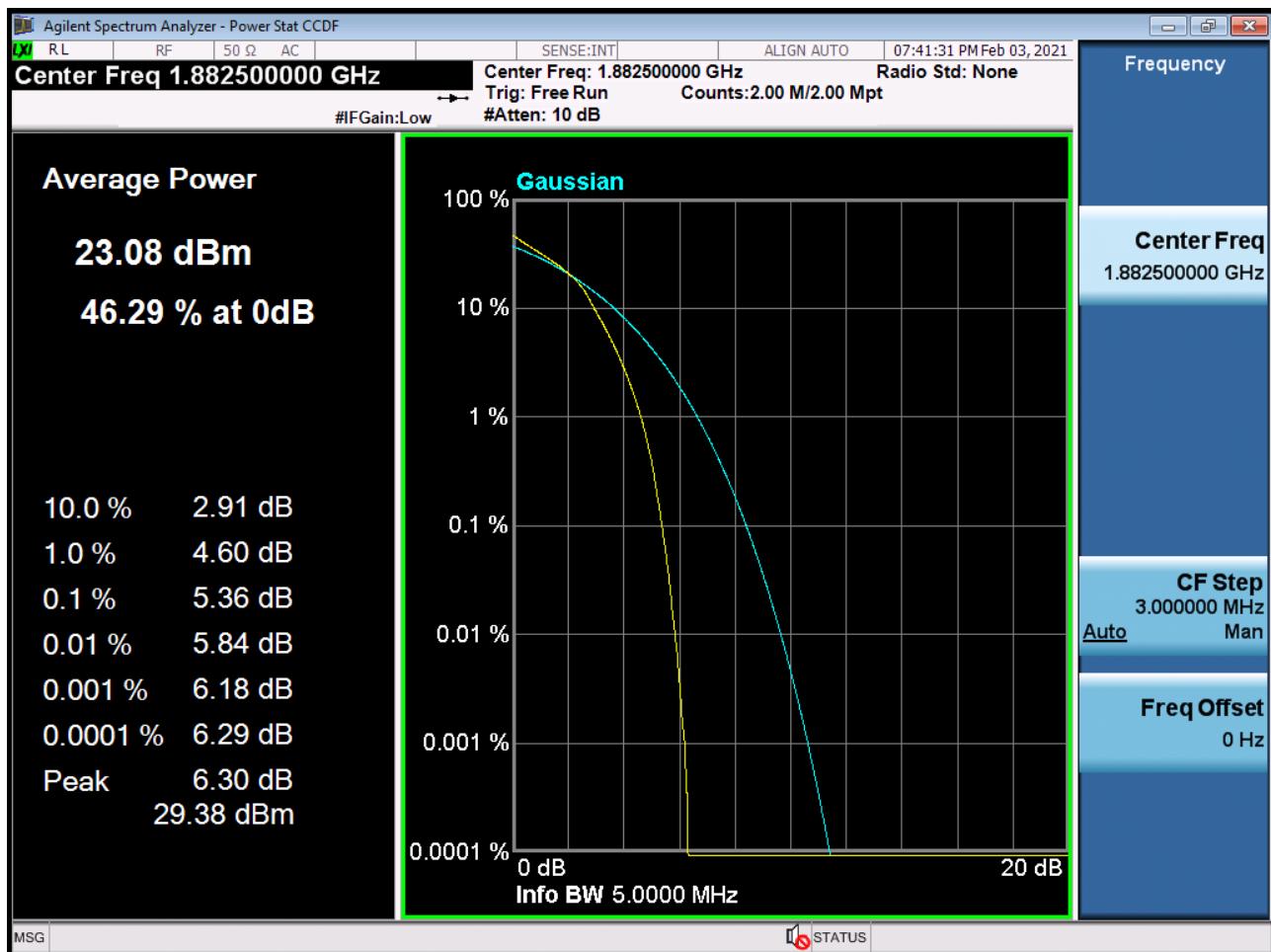
BAND 25/2. PAR Plot (3M BW Ch.26365 64QAM RB 15\_0)



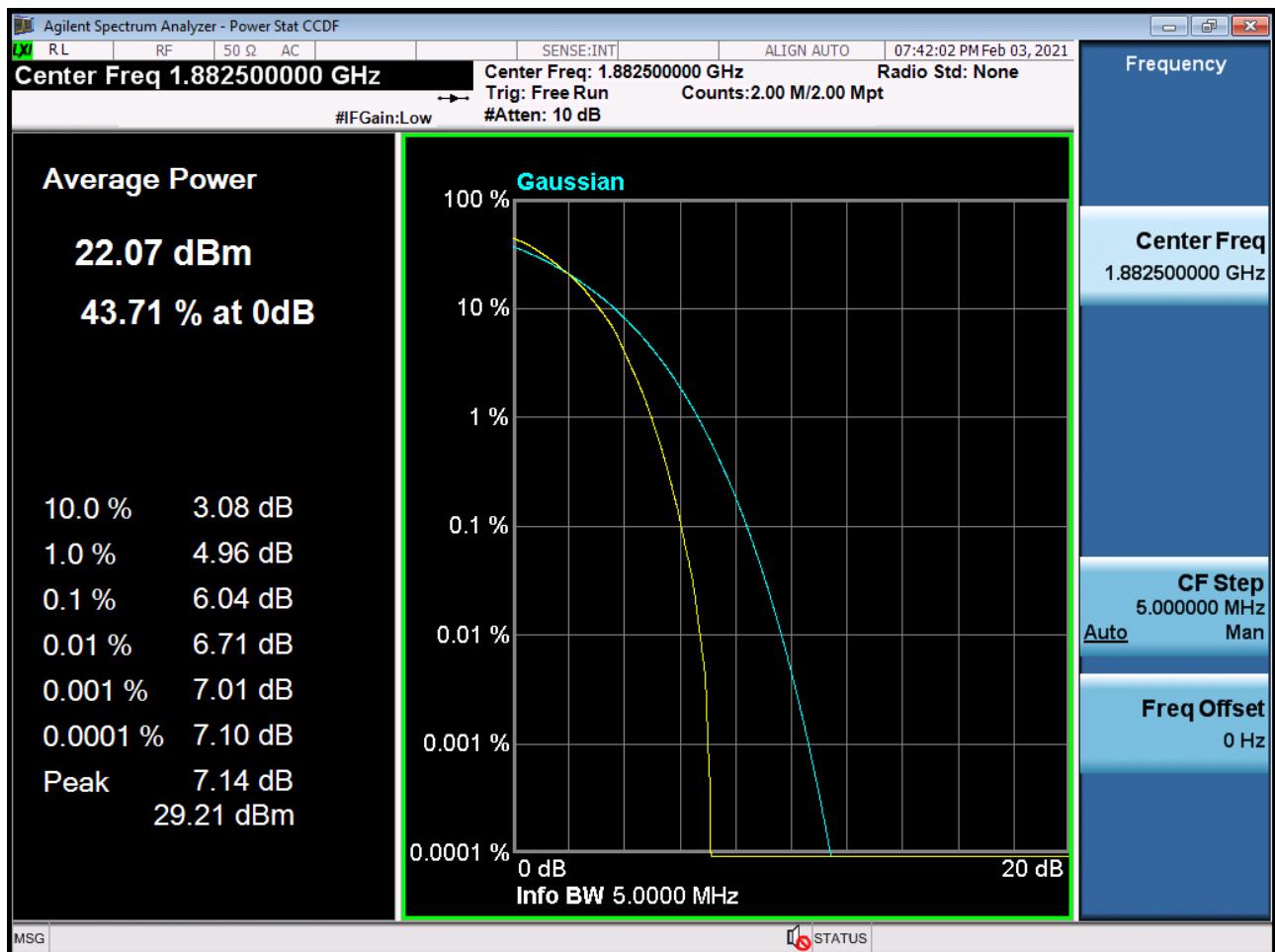
BAND 25/2. PAR Plot (5M BW Ch.26365 QPSK RB 25\_0)



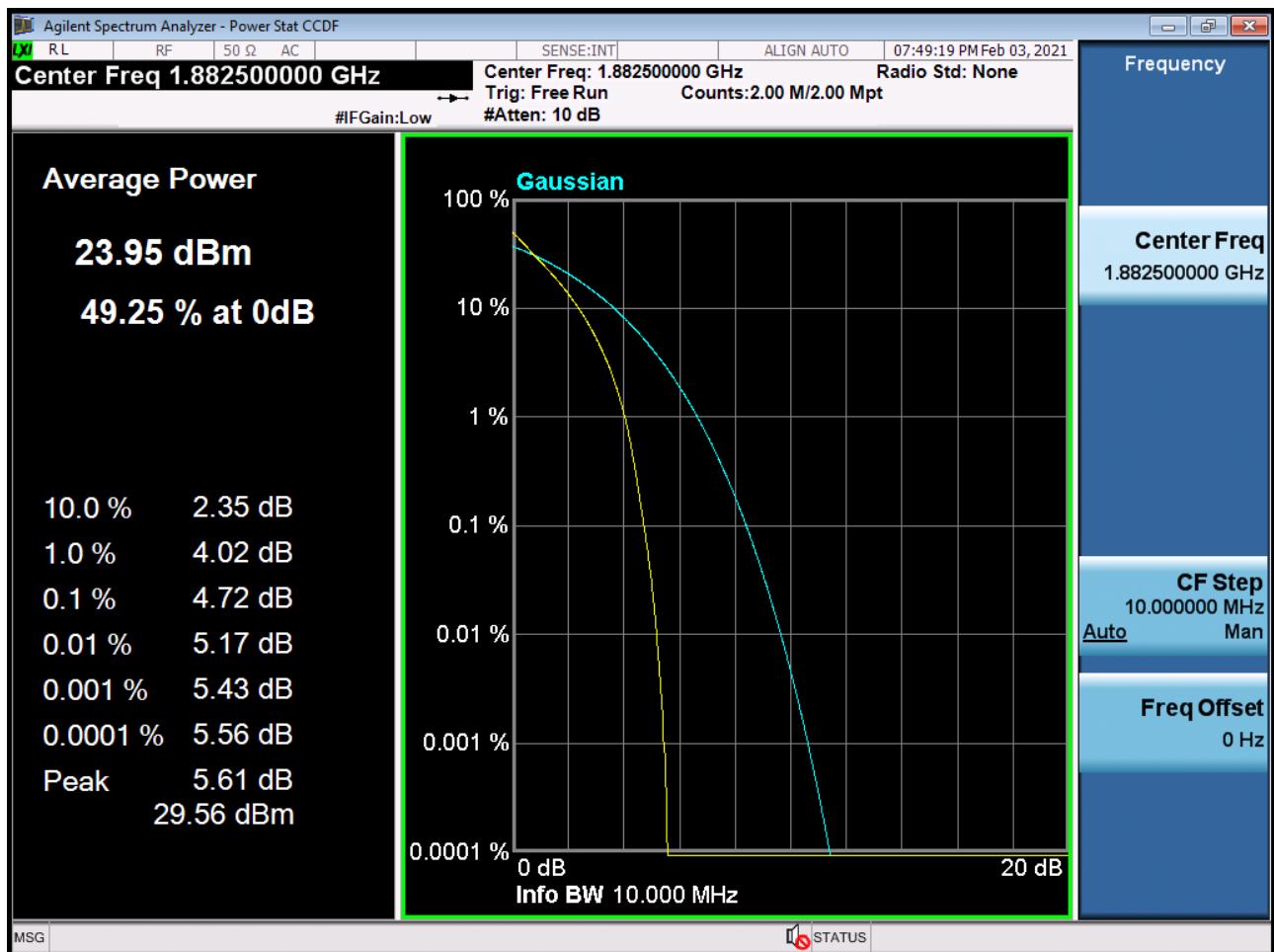
BAND 25/2. PAR Plot (5M BW Ch.26365 16QAM RB 25\_0)



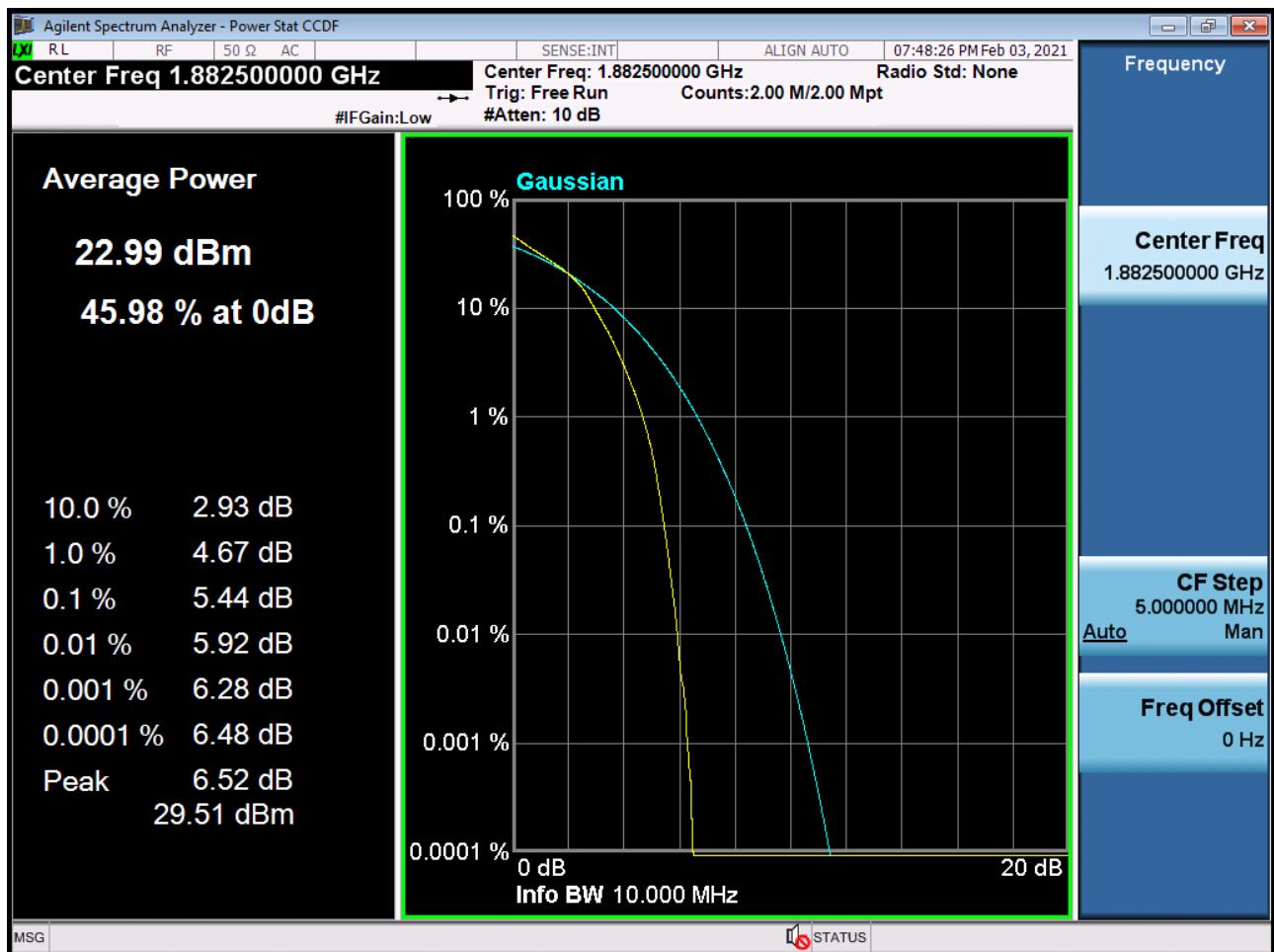
BAND 25/2. PAR Plot (5M BW Ch.26365 64QAM RB 25\_0)



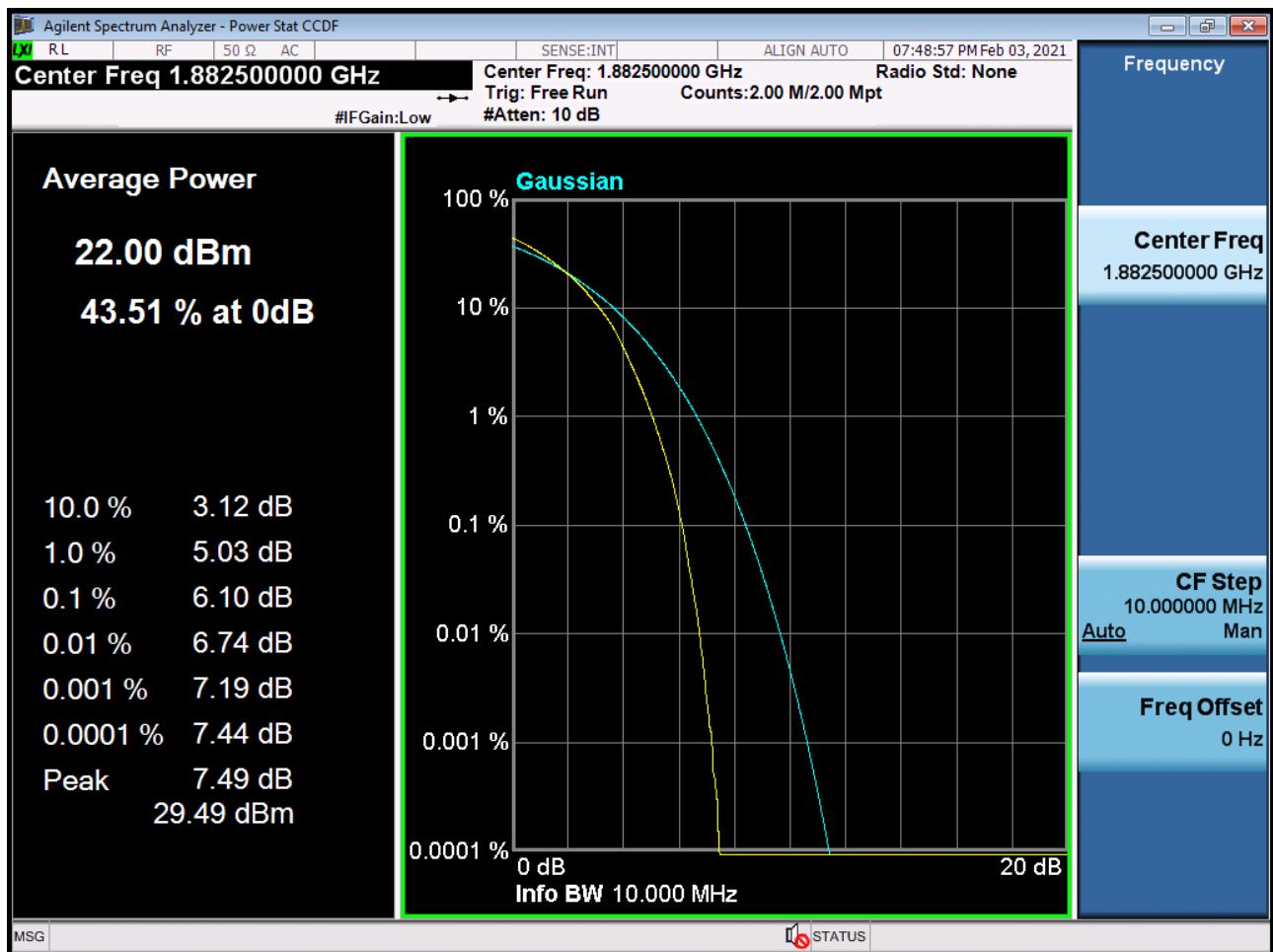
BAND 25/2. PAR Plot (10M BW Ch.26365 QPSK RB 50\_0)



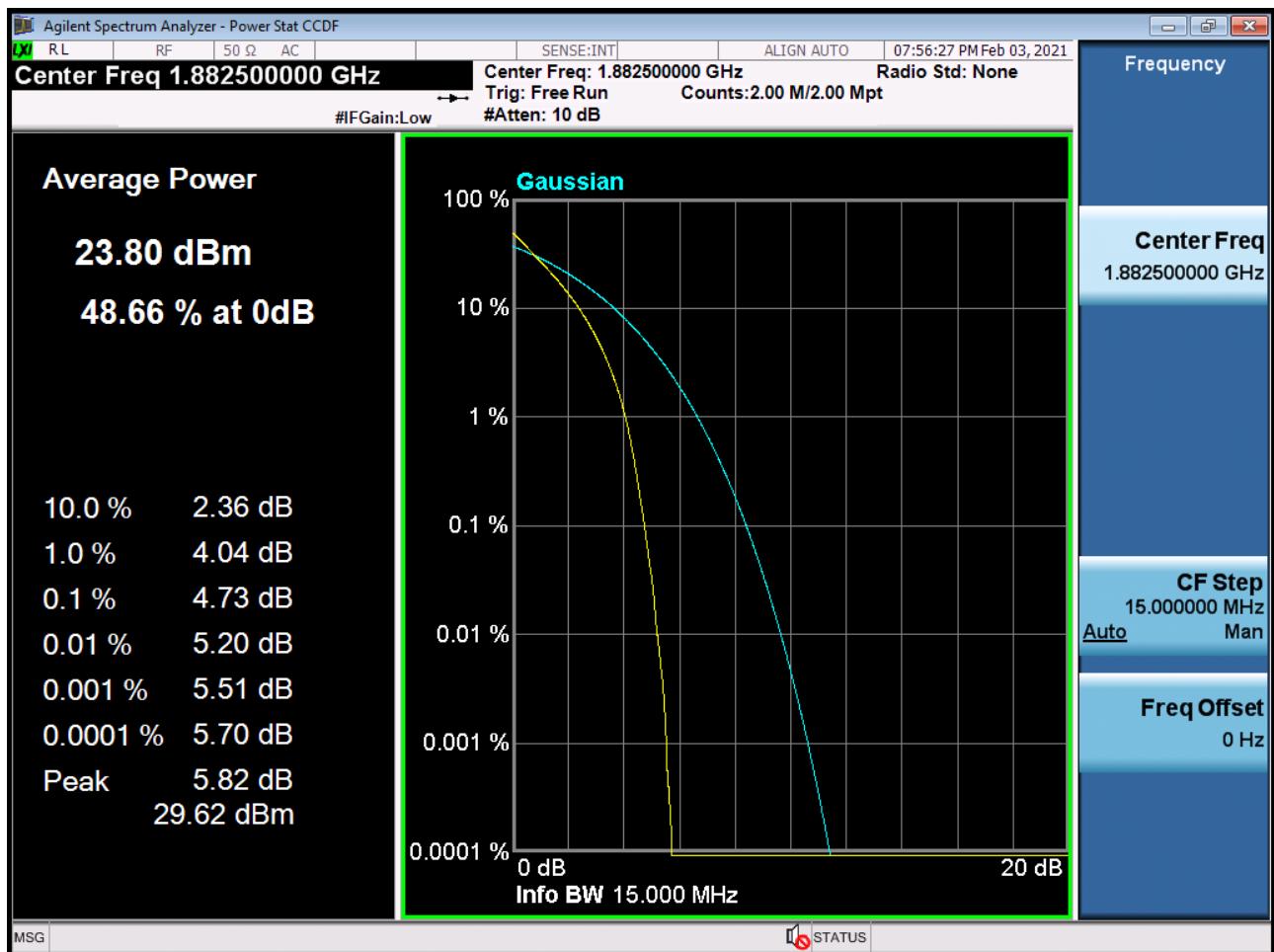
BAND 25/2. PAR Plot (10M BW Ch.26365 16QAM RB 50\_0)



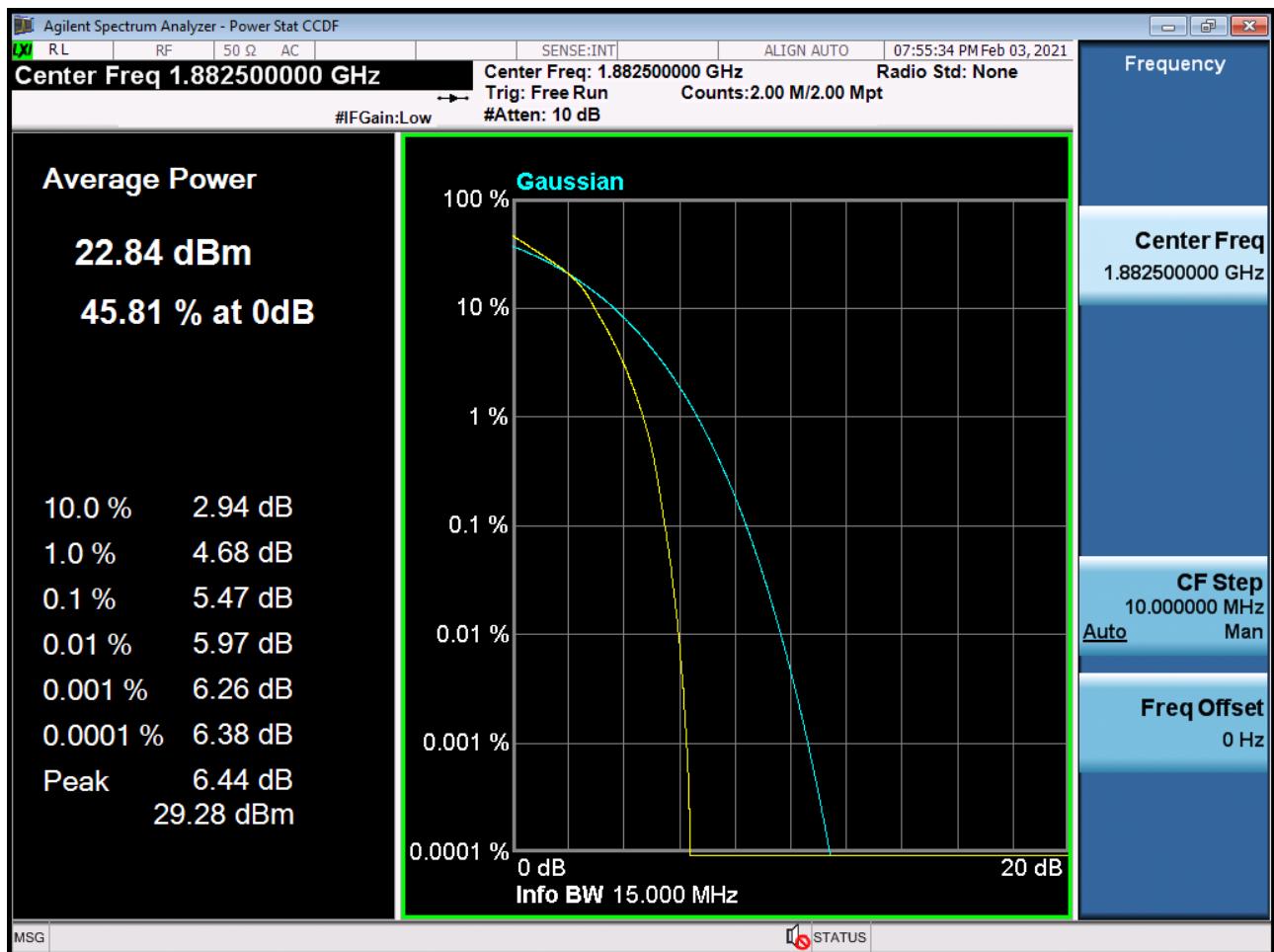
BAND 25/2. PAR Plot (10M BW Ch.26365 64QAM RB 50\_0)



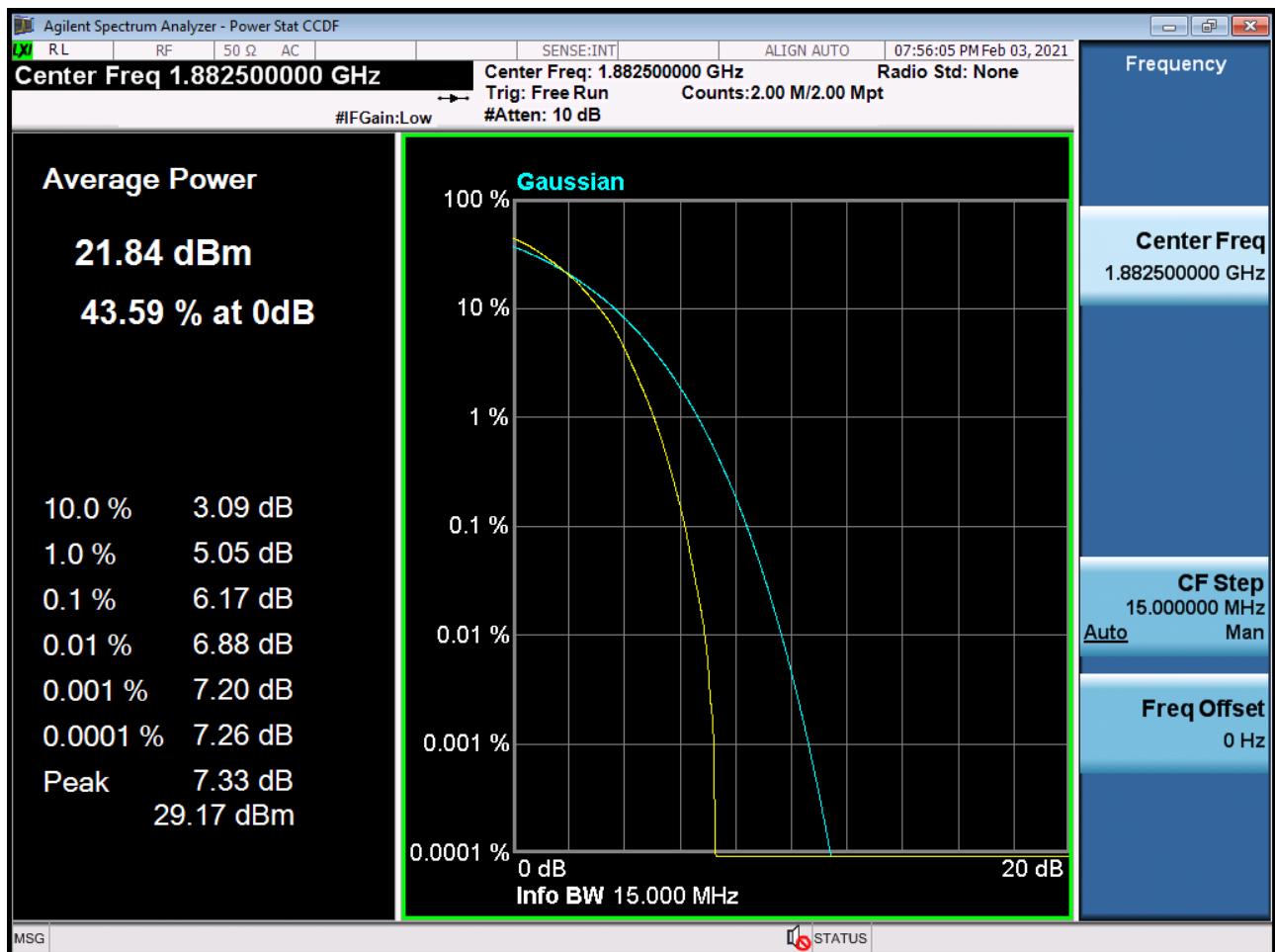
BAND 25/2. PAR Plot (15M BW Ch.26365 QPSK RB 75\_0)



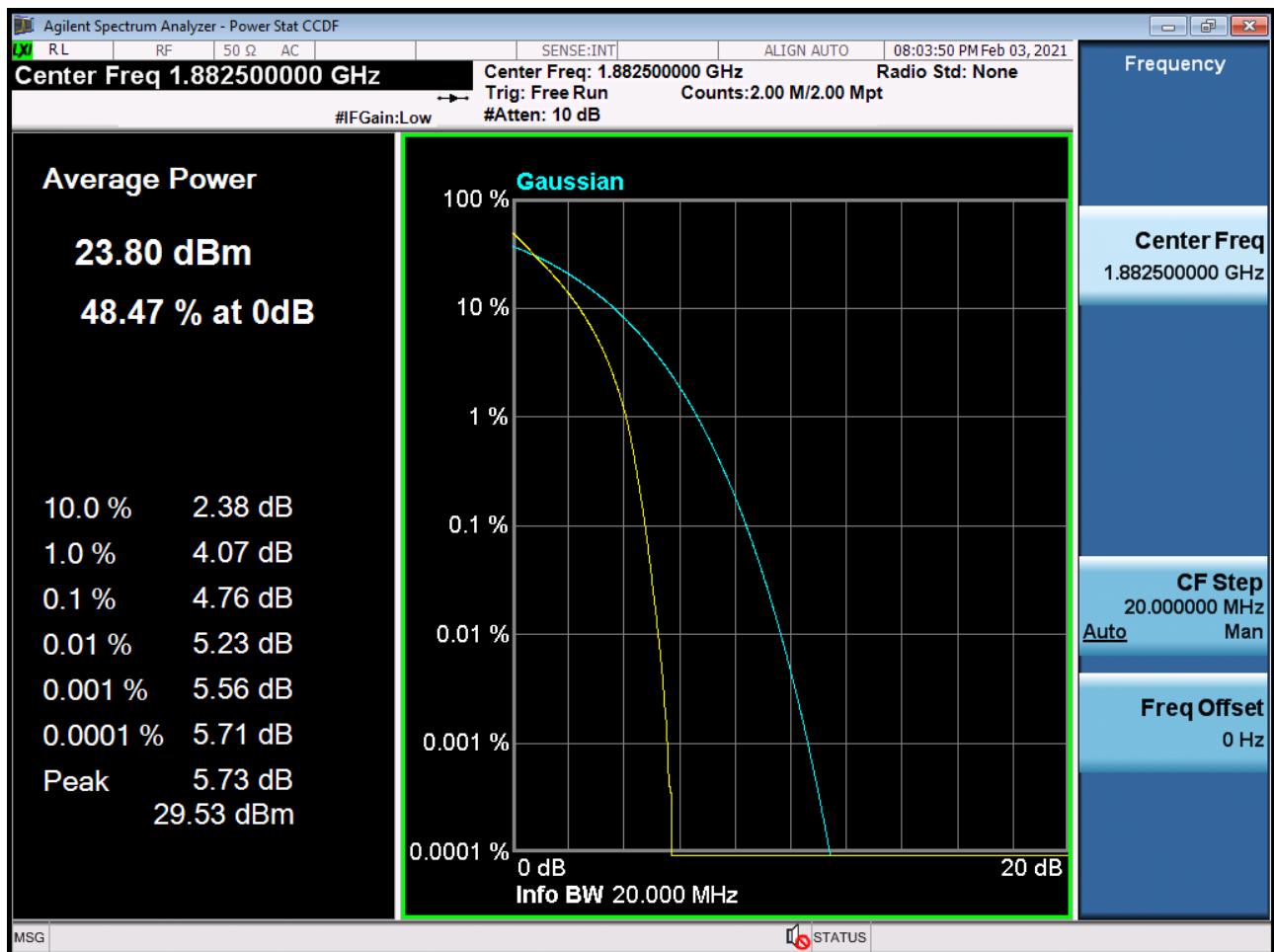
BAND 25/2. PAR Plot (15M BW Ch.26365 16QAM RB 75\_0)



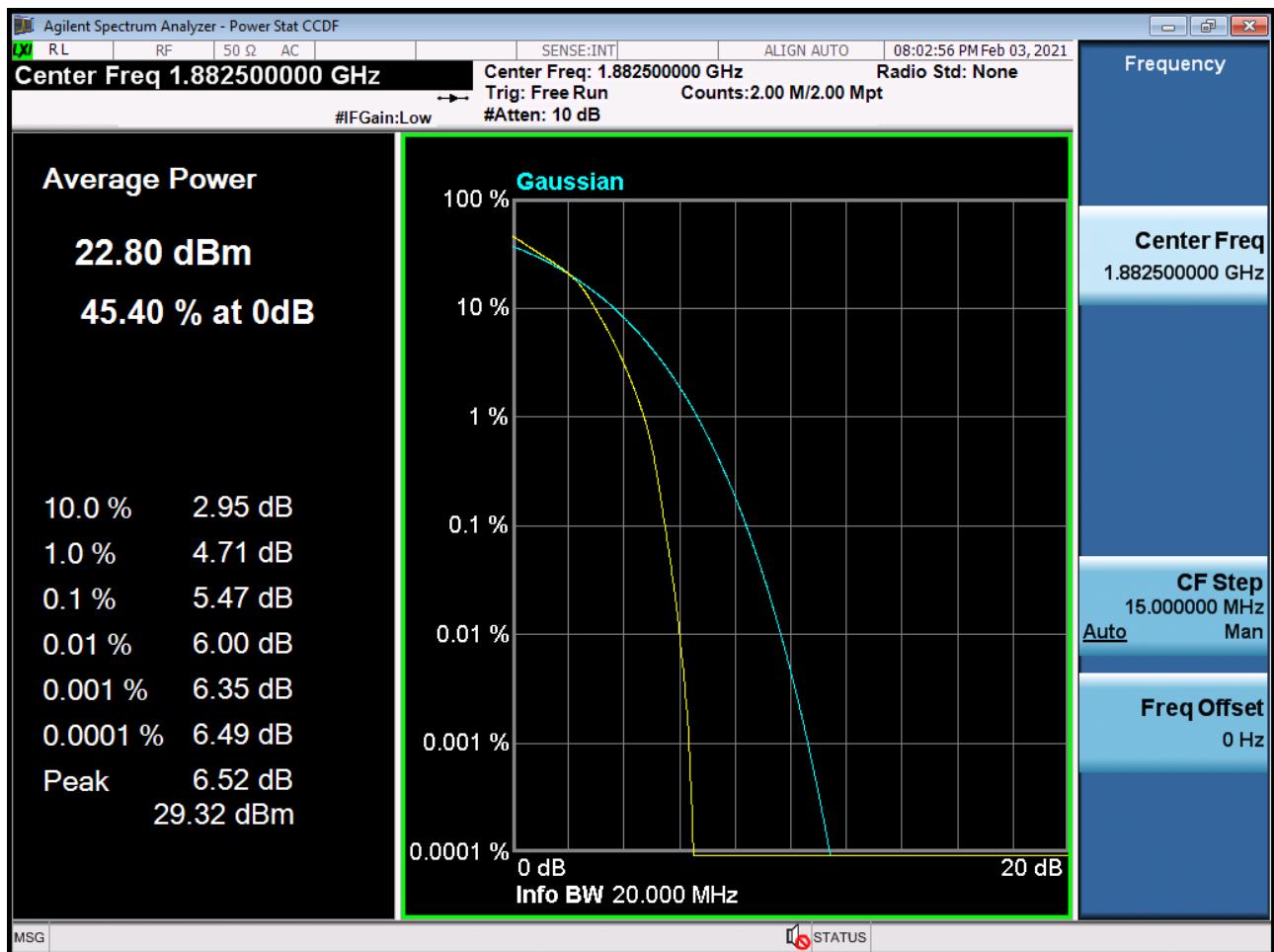
BAND 25/2. PAR Plot (15M BW Ch.26365 64QAM RB 75\_0)



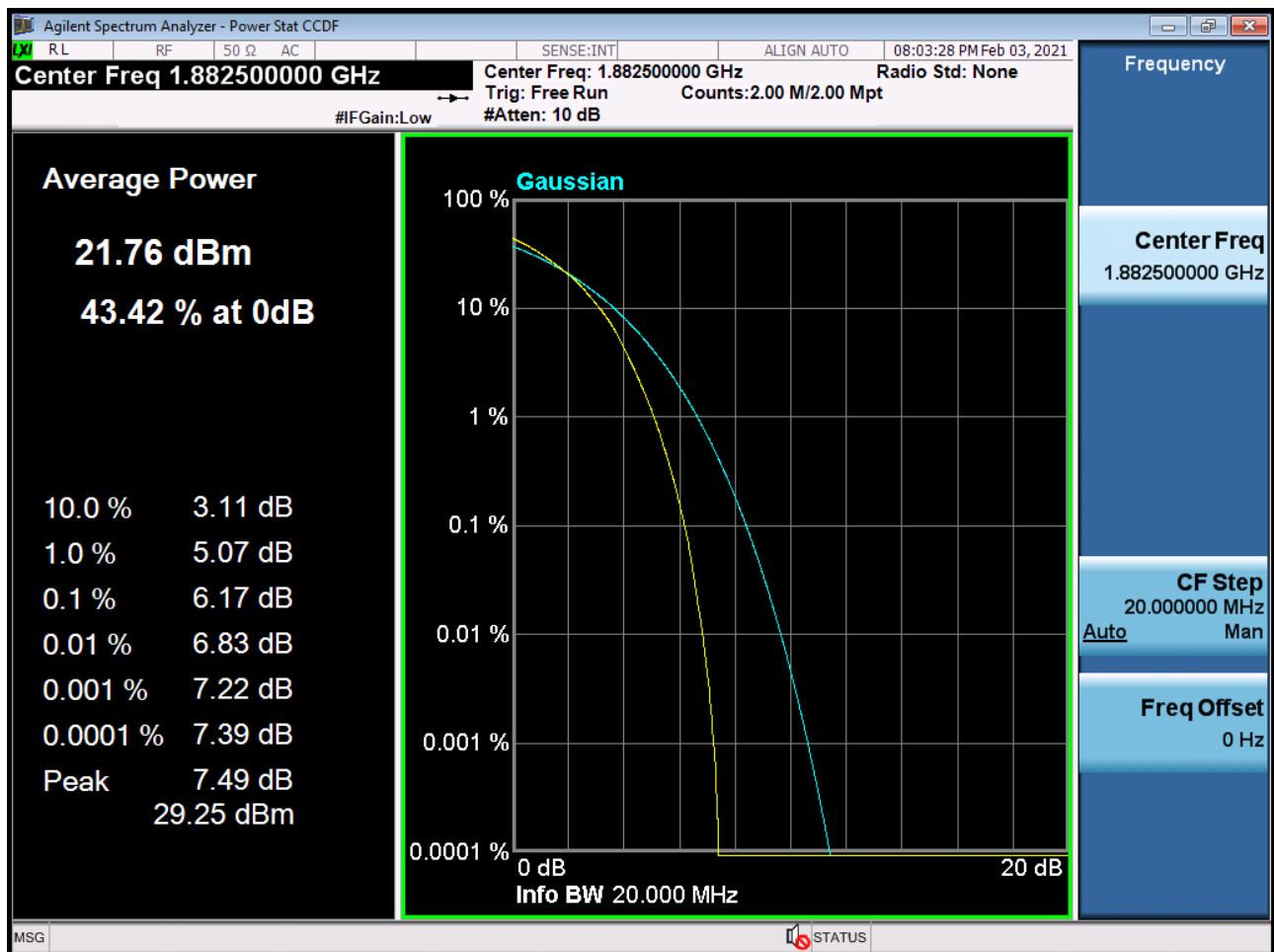
BAND 25/2. PAR Plot (20M BW Ch.26365 QPSK RB 100\_0)



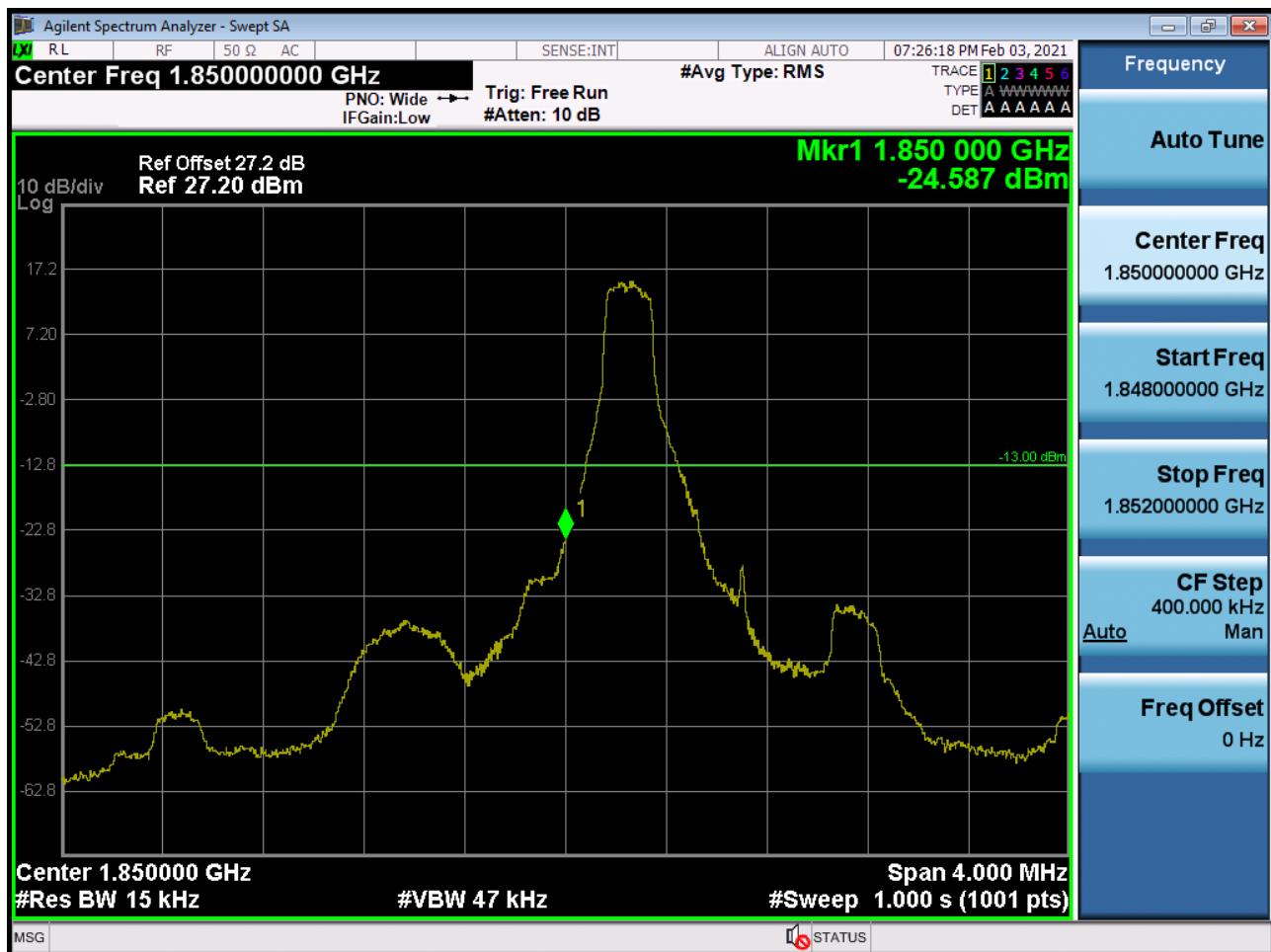
BAND 25/2. PAR Plot (20M BW Ch.26365 16QAM RB 100\_0)



BAND 25/2. PAR Plot (20M BW Ch.26365 64QAM RB 100\_0)



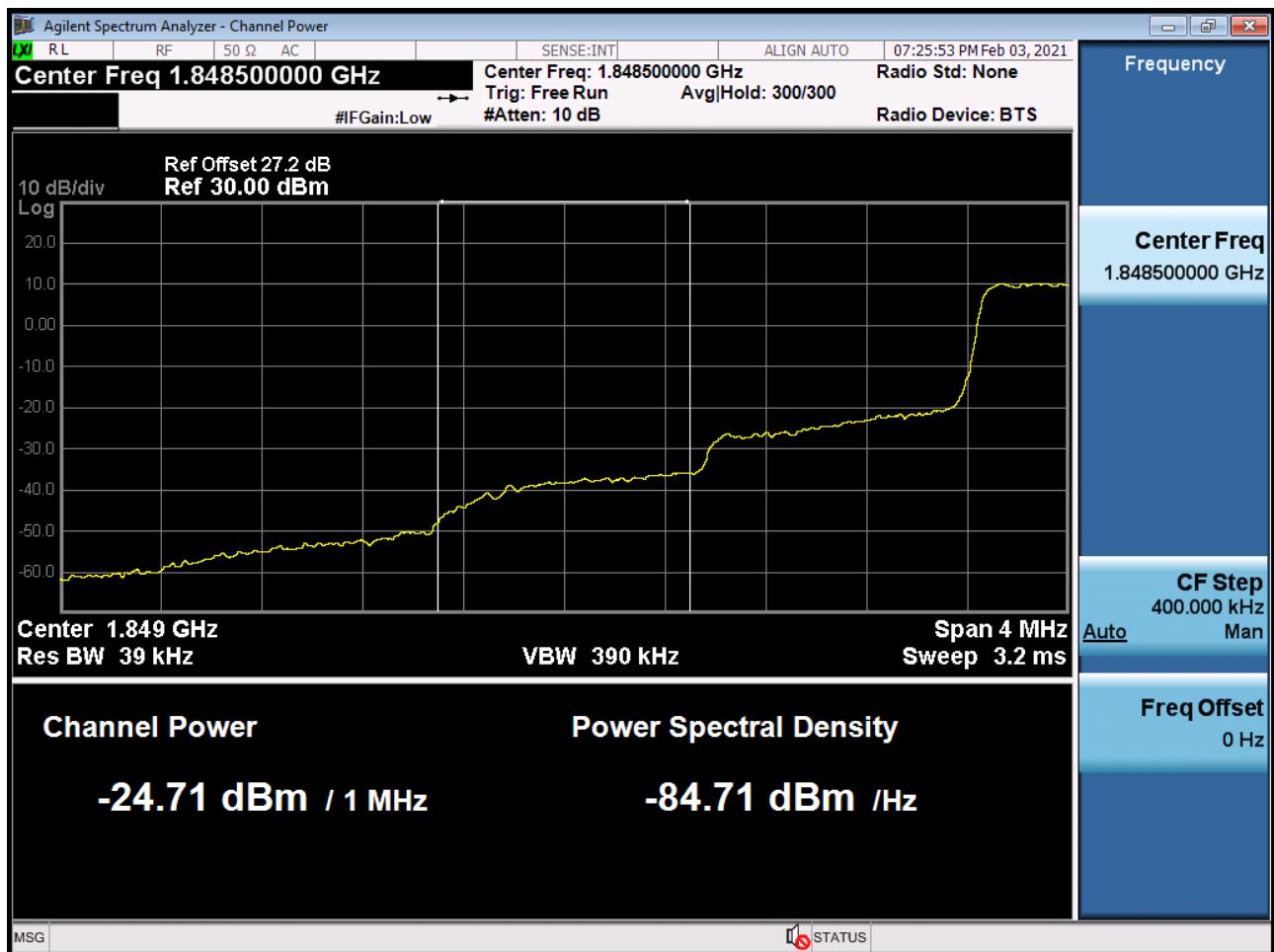
BAND 25/2. Lower Band Edge Plot (1.4M BW Ch.26047 QPSK\_RB1\_Offset 0)



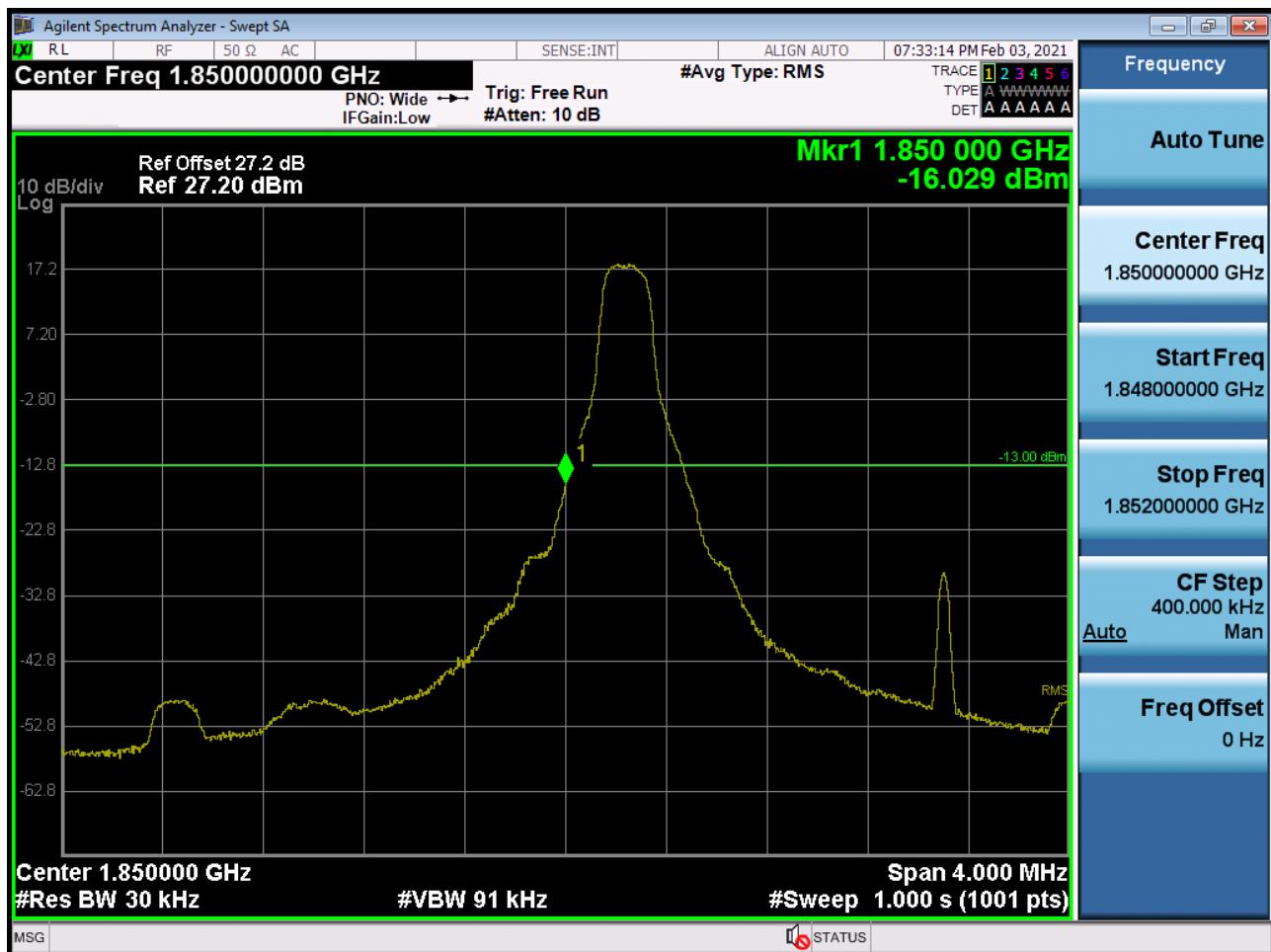
BAND 25/2. Lower Band Edge Plot (1.4M BW Ch.26047 QPSK\_RB6\_Offset 0) -1



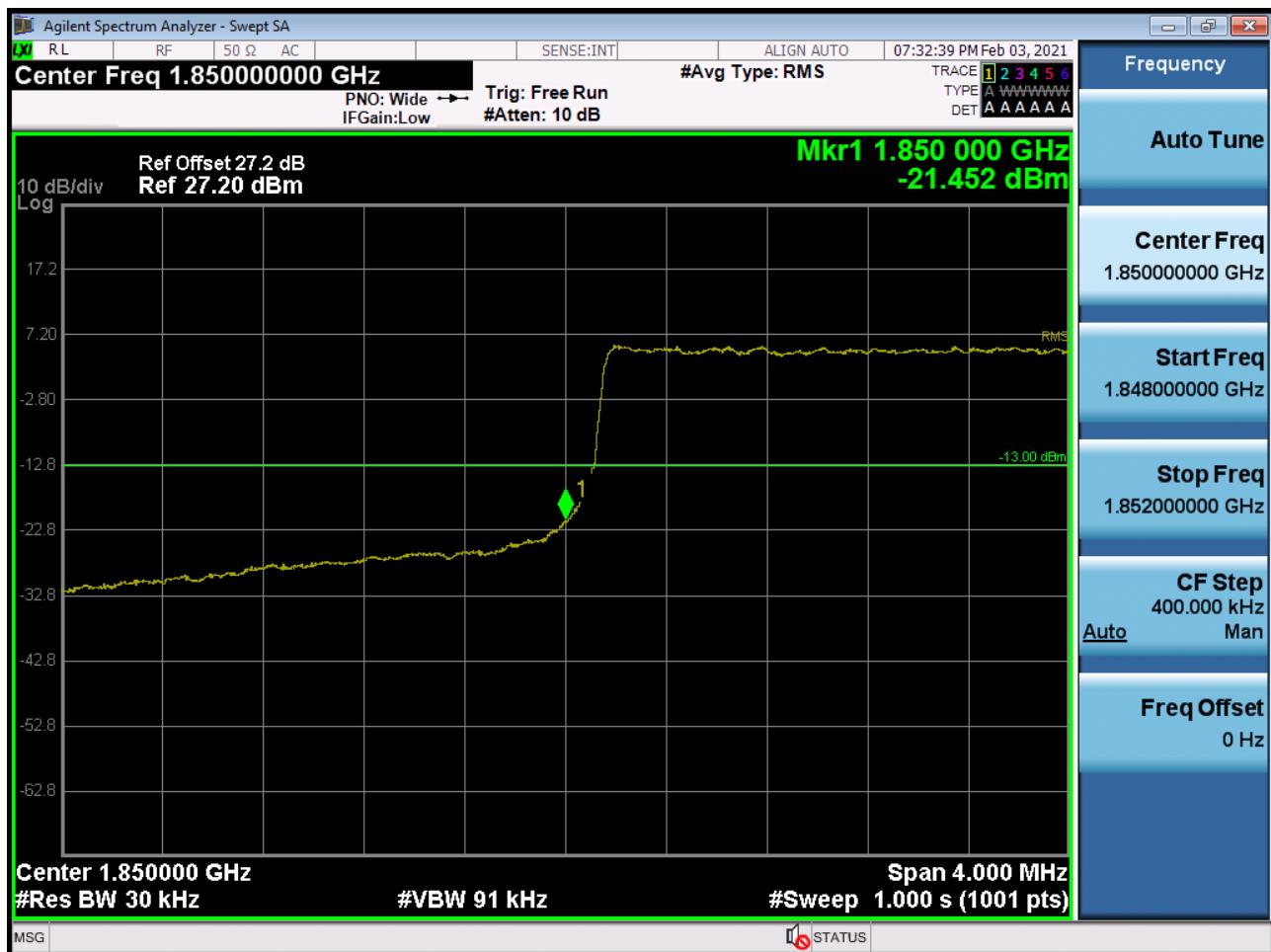
BAND 25/2. Lower Extended Band Edge Plot (1.4M BW Ch.26047 QPSK\_RB6\_0) -2



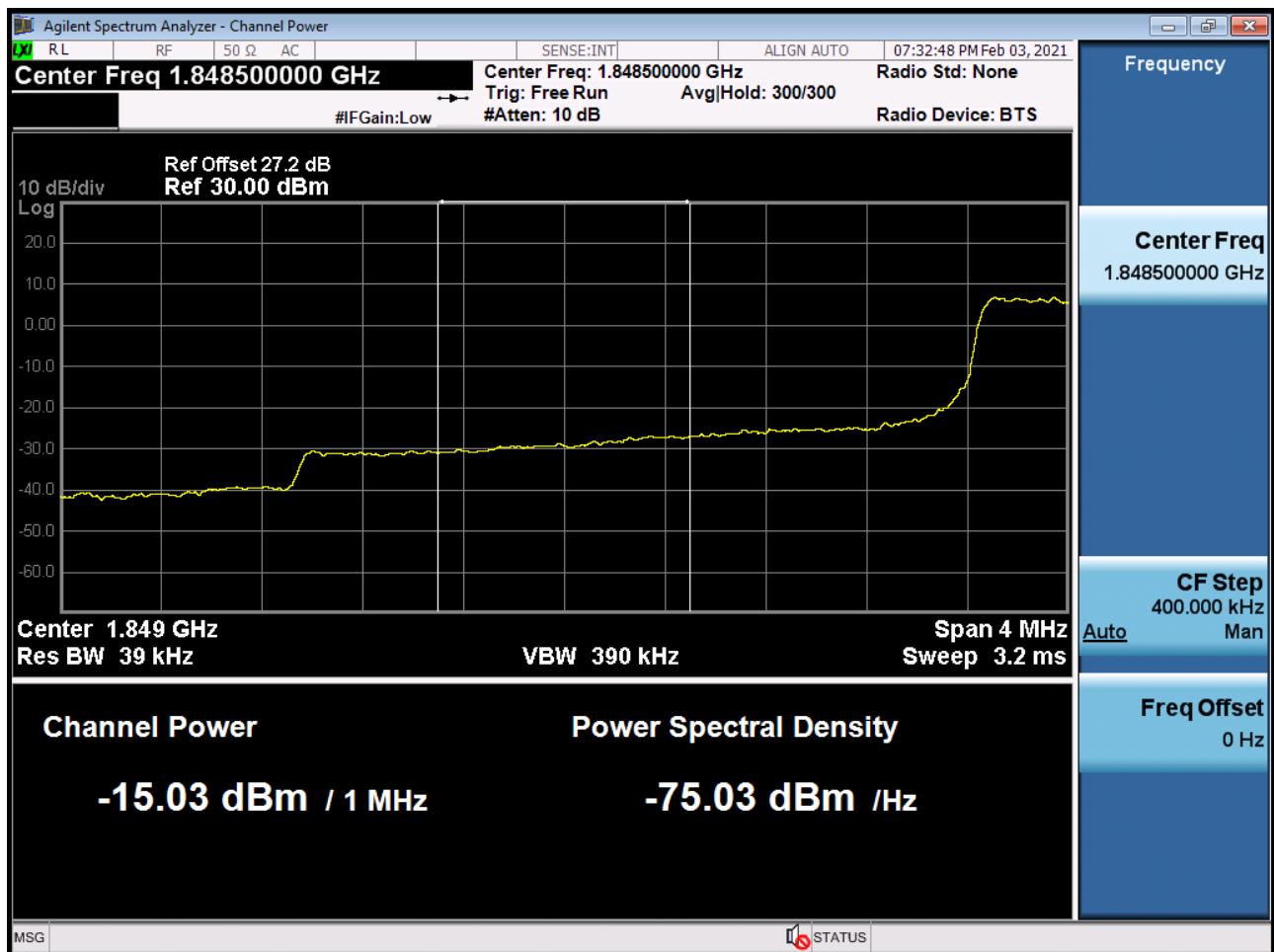
BAND 25/2. Lower Band Edge Plot (3M BW Ch.26055 QPSK\_RB1\_Offset 0)



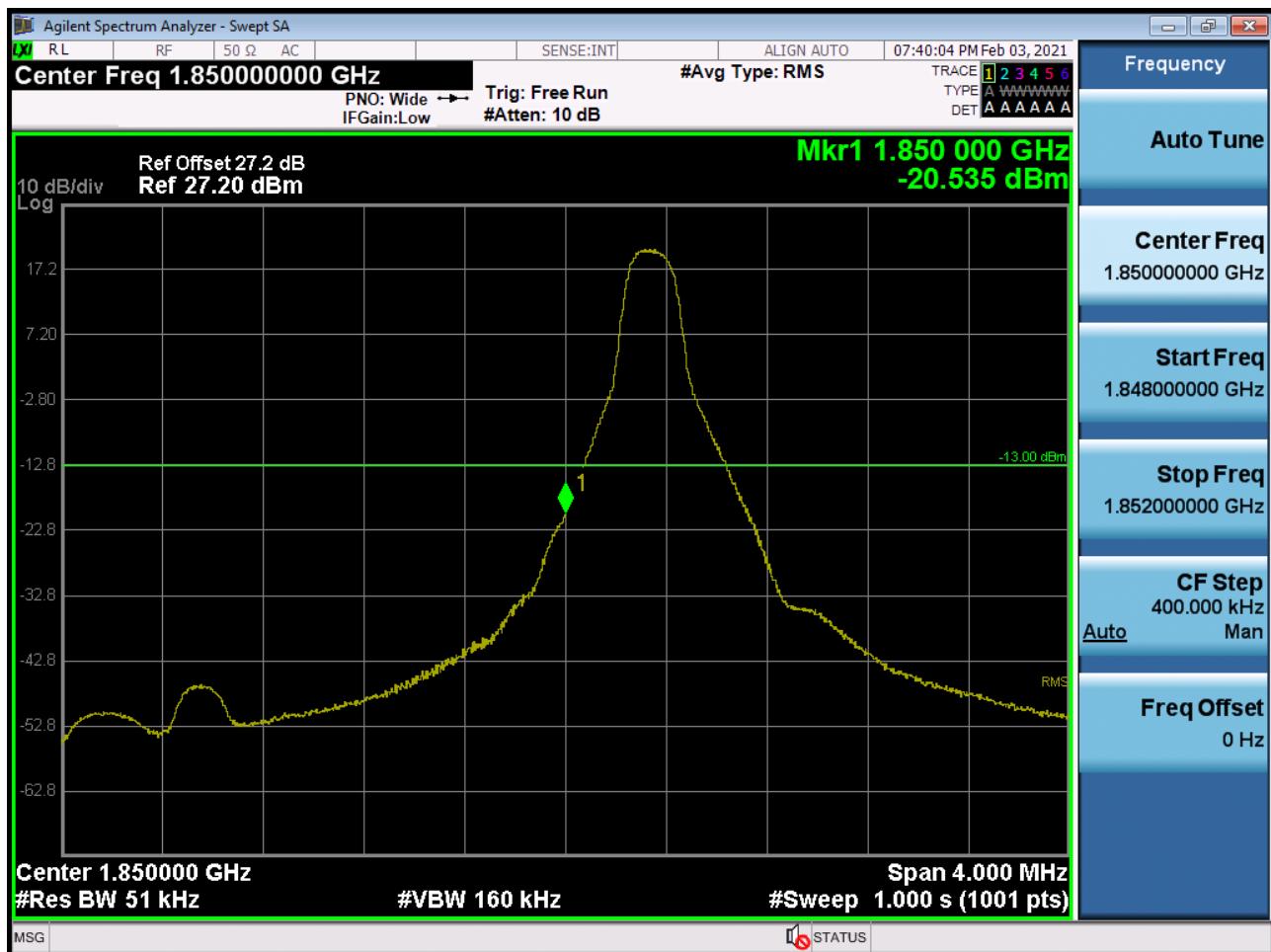
BAND 25/2. Lower Band Edge Plot (3M BW Ch.26055 QPSK\_RB15\_Offset 0) -1



BAND 25/2. Lower Extended Band Edge Plot (3M BW Ch.26055 QPSK\_RB15\_0) -2



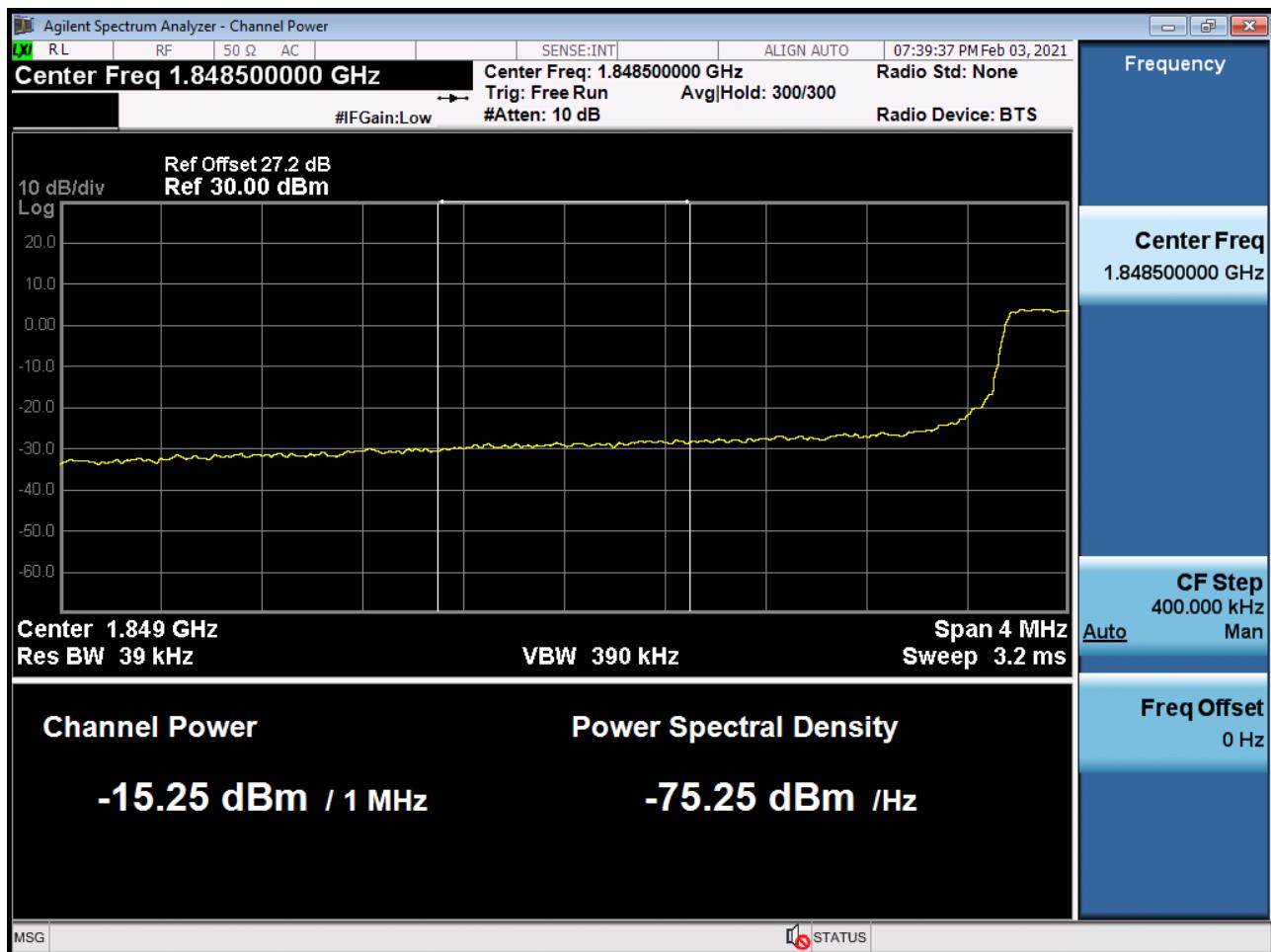
BAND 25/2. Lower Band Edge Plot (5M BW Ch.26065 QPSK\_RB1\_Offset 0)



BAND 25/2. Lower Band Edge Plot (5M BW Ch.26065 QPSK\_RB25\_Offset 0) -1



BAND 25/2. Lower Extended Band Edge Plot (5M BW Ch.26065 QPSK\_RB25\_0) -2



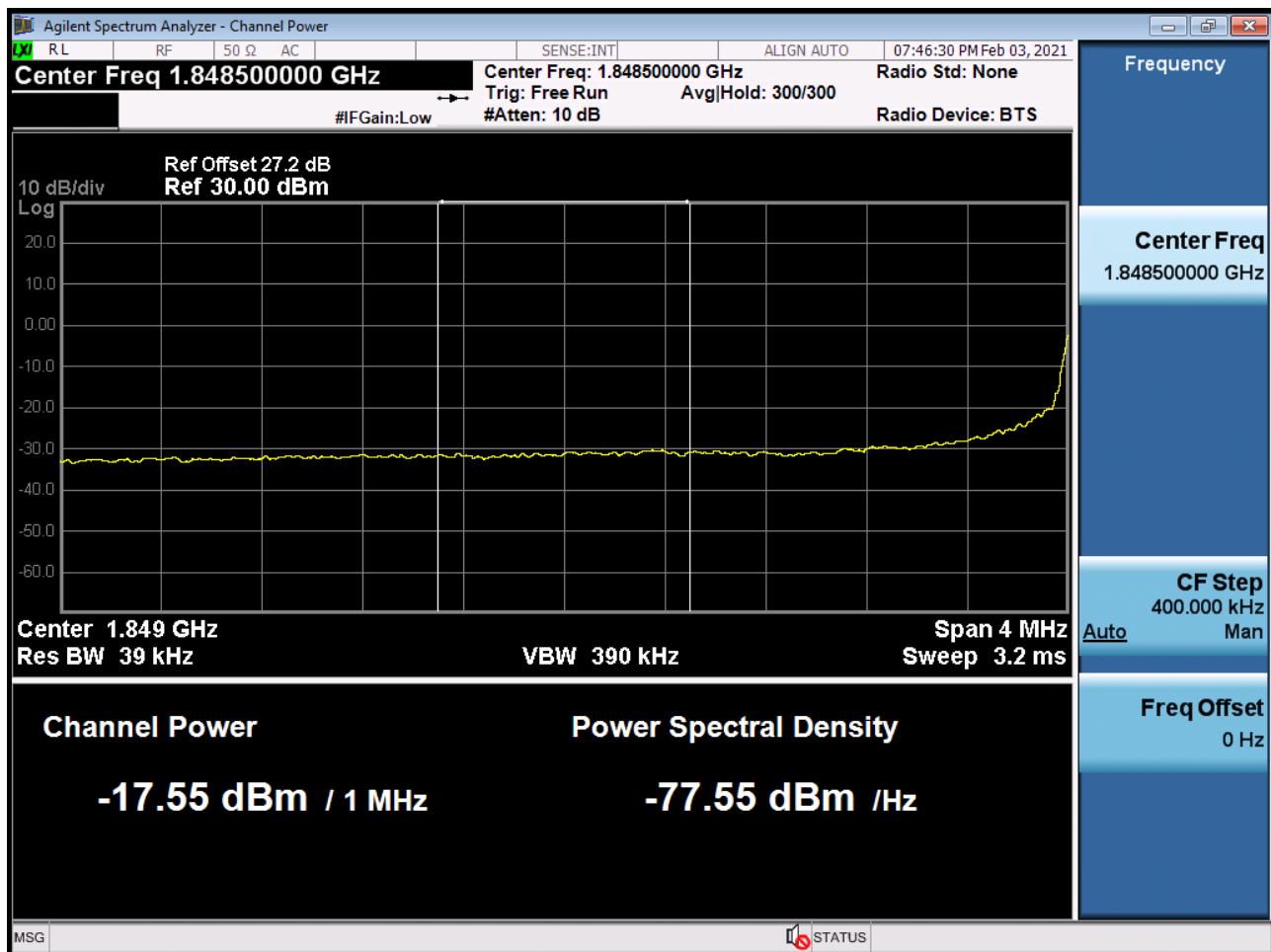
BAND 25/2. Lower Band Edge Plot (10M BW Ch.26090 QPSK\_RB1\_Offset 0)



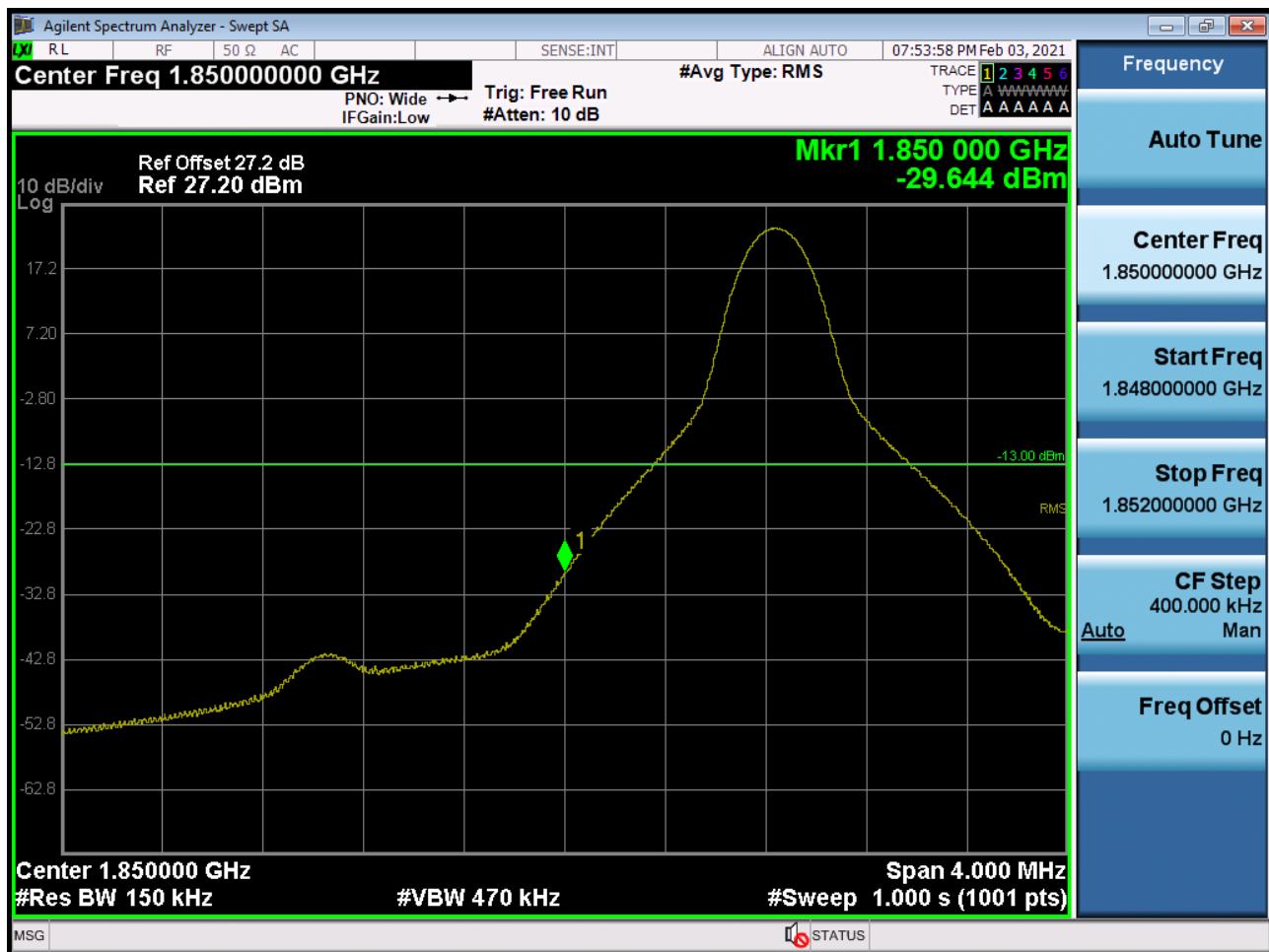
BAND 25/2. Lower Band Edge Plot (10M BW Ch.26090 QPSK\_RB50\_Offset 0) -1



BAND 25/2. Lower Extended Band Edge Plot (10M BW Ch.26090 QPSK\_RB50\_0) -2



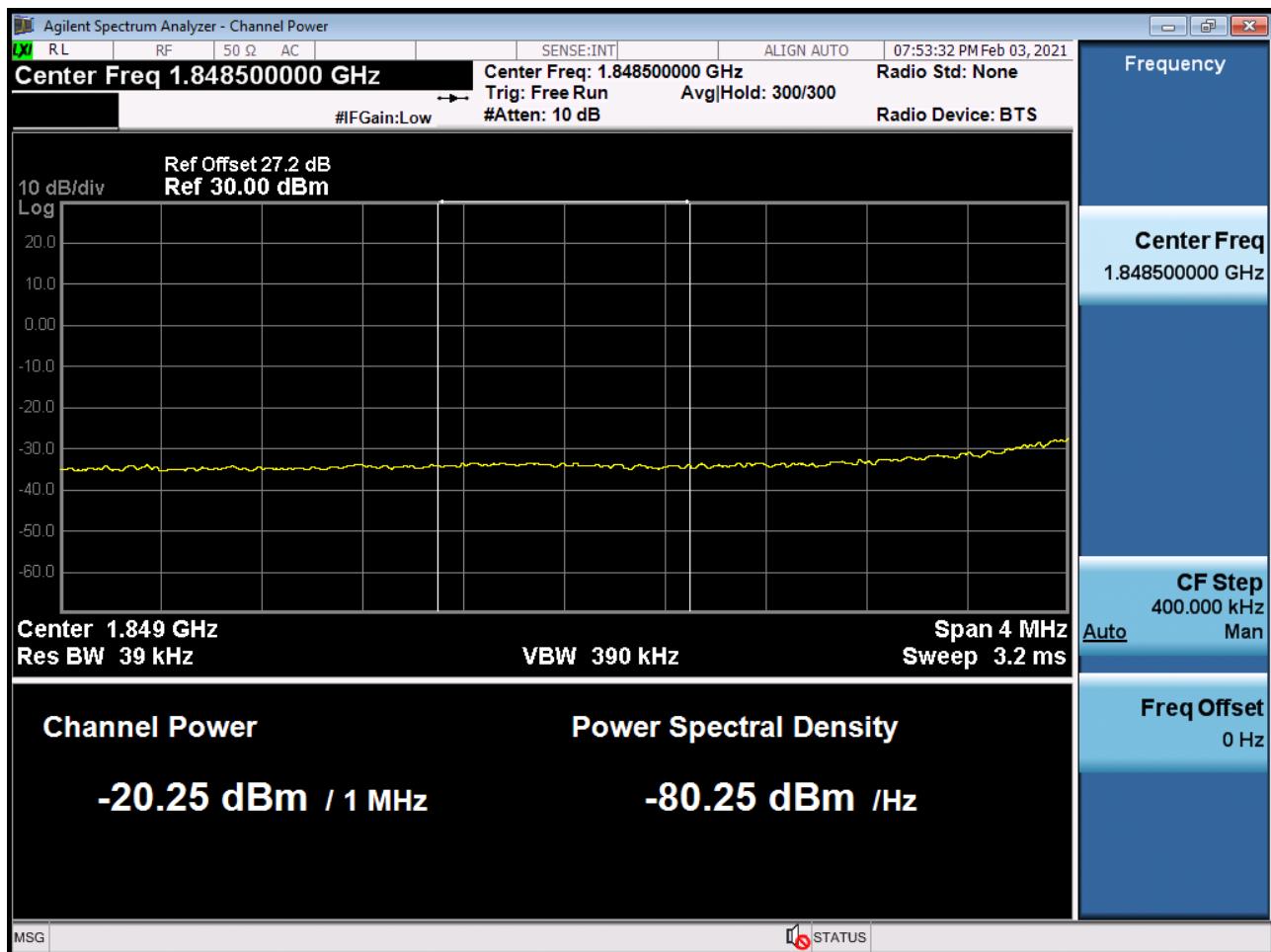
BAND 25/2. Lower Band Edge Plot (15M BW Ch.26115 QPSK\_RB1\_Offset 0)



BAND 25/2. Lower Band Edge Plot (15M BW Ch.26115 QPSK\_RB75\_Offset 0) -1



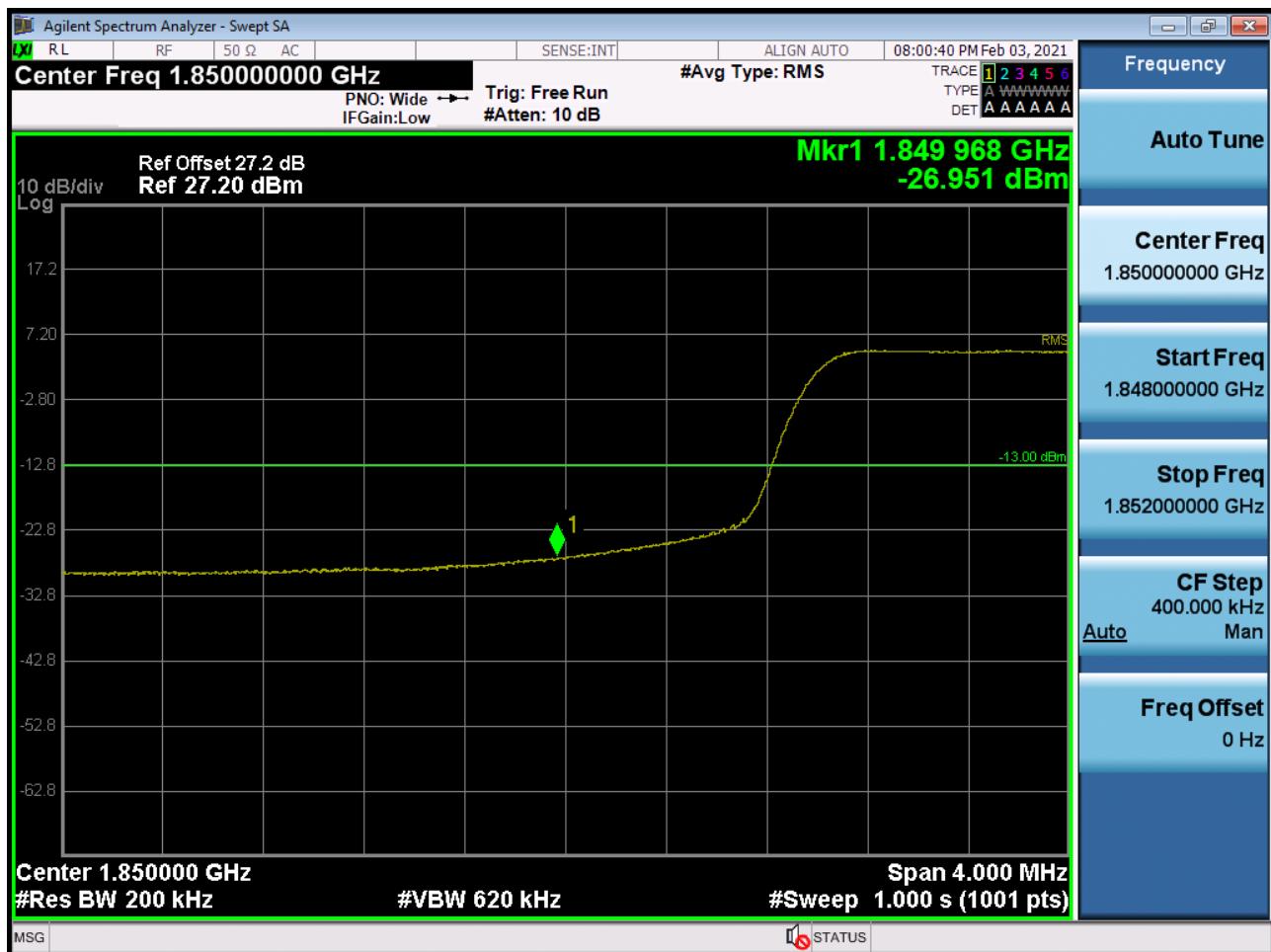
BAND 25/2. Lower Extended Band Edge Plot (15M BW Ch.26115 QPSK\_RB75\_0) -2



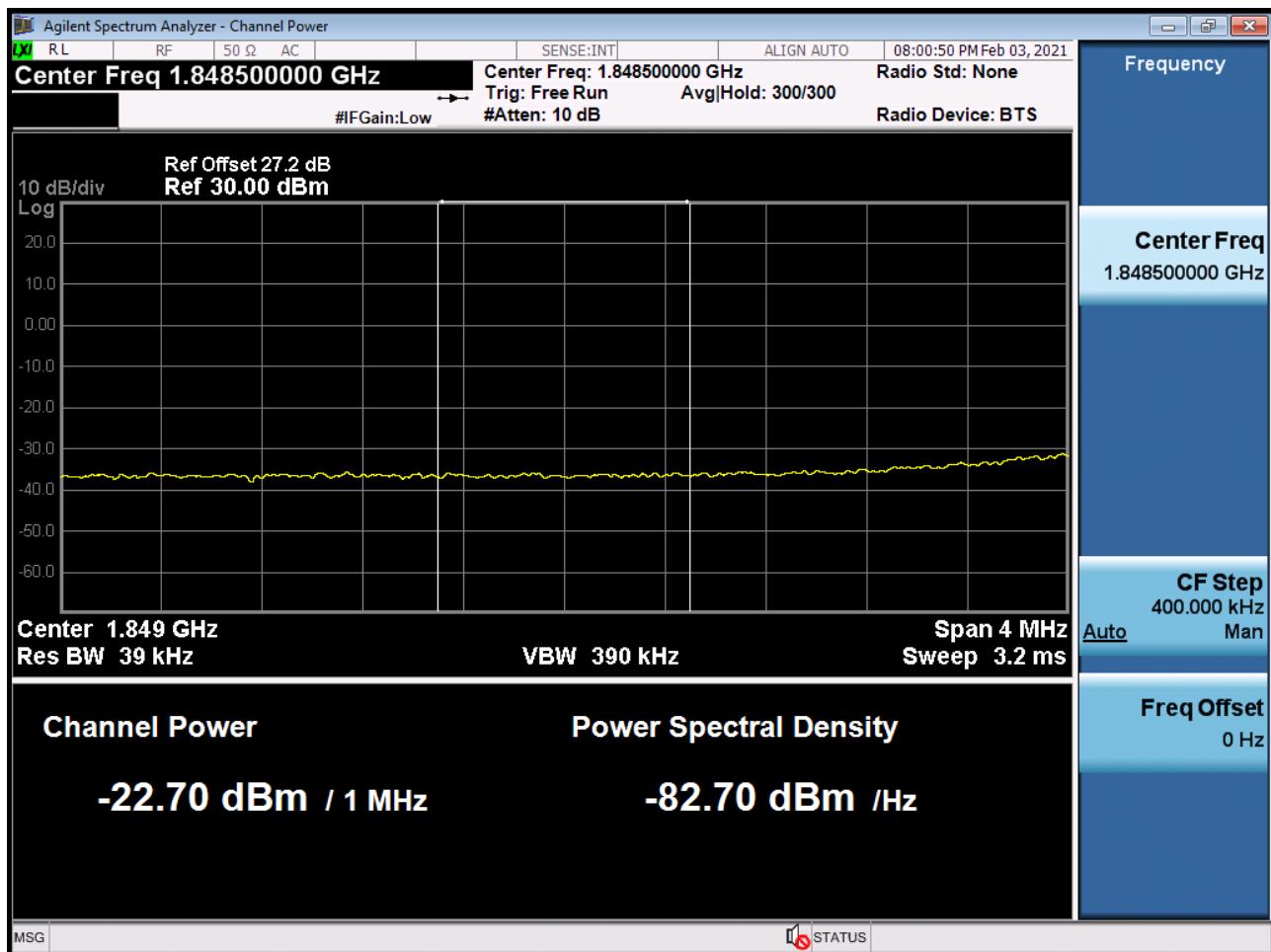
BAND 25/2. Lower Band Edge Plot (20M BW Ch.26140 QPSK\_RB1\_Offset 0)



BAND 25/2. Lower Band Edge Plot (20M BW Ch.26140 QPSK\_RB100\_Offset 0) -1



BAND 25/2. Lower Extended Band Edge Plot (20M BW Ch.26140 QPSK\_RB100\_0) -2



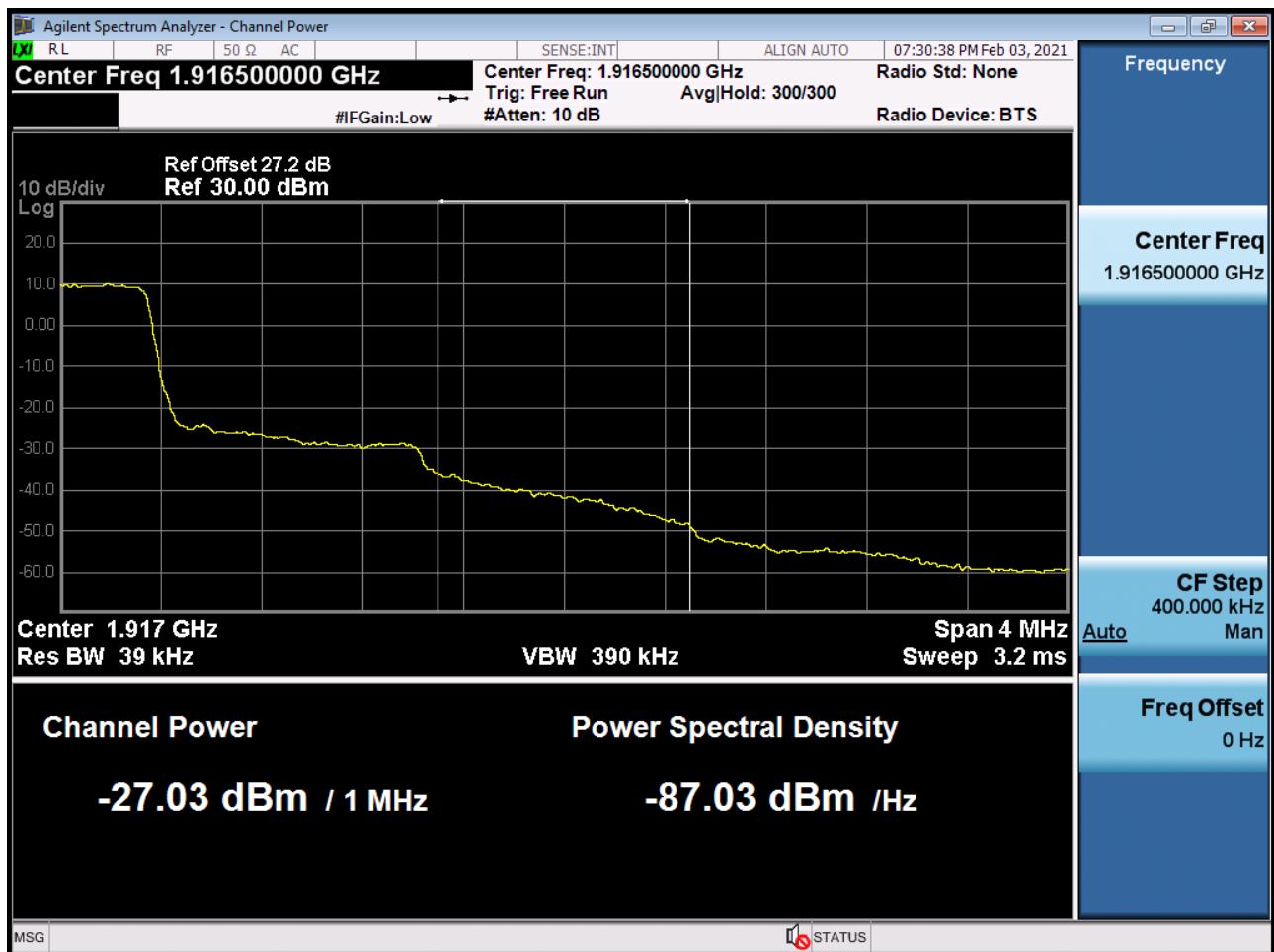
BAND 25/2. Upper Band Edge Plot (1.4M BW Ch.26683 QPSK\_RB1\_Offset 5)



BAND 25/2. Upper Band Edge Plot (1.4M BW Ch.26683 QPSK\_RB6\_Offset 0) -1



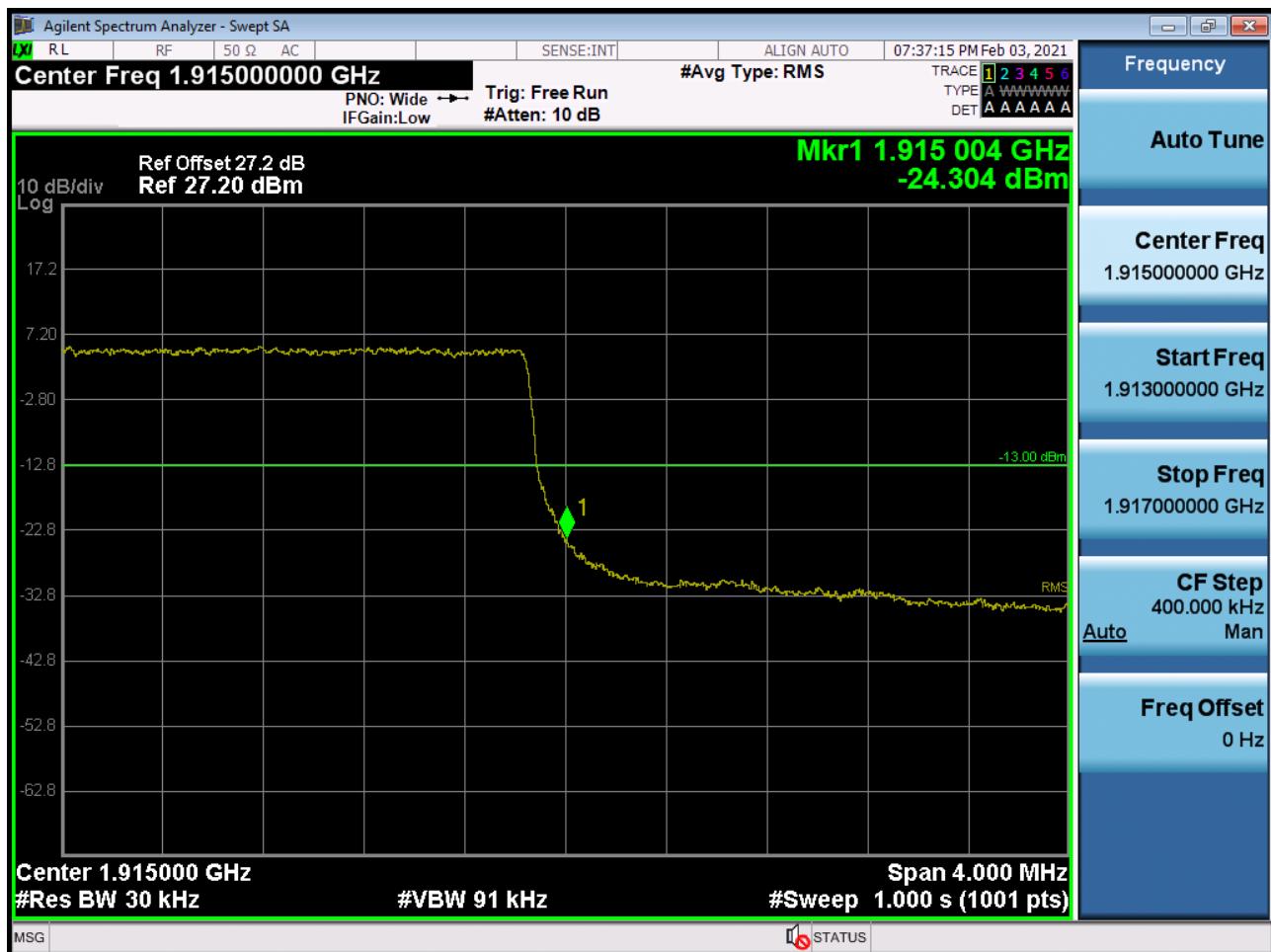
BAND 25/2. Upper Extended Band Edge Plot (1.4M BW Ch.26683 QPSK\_RB6\_0) -2



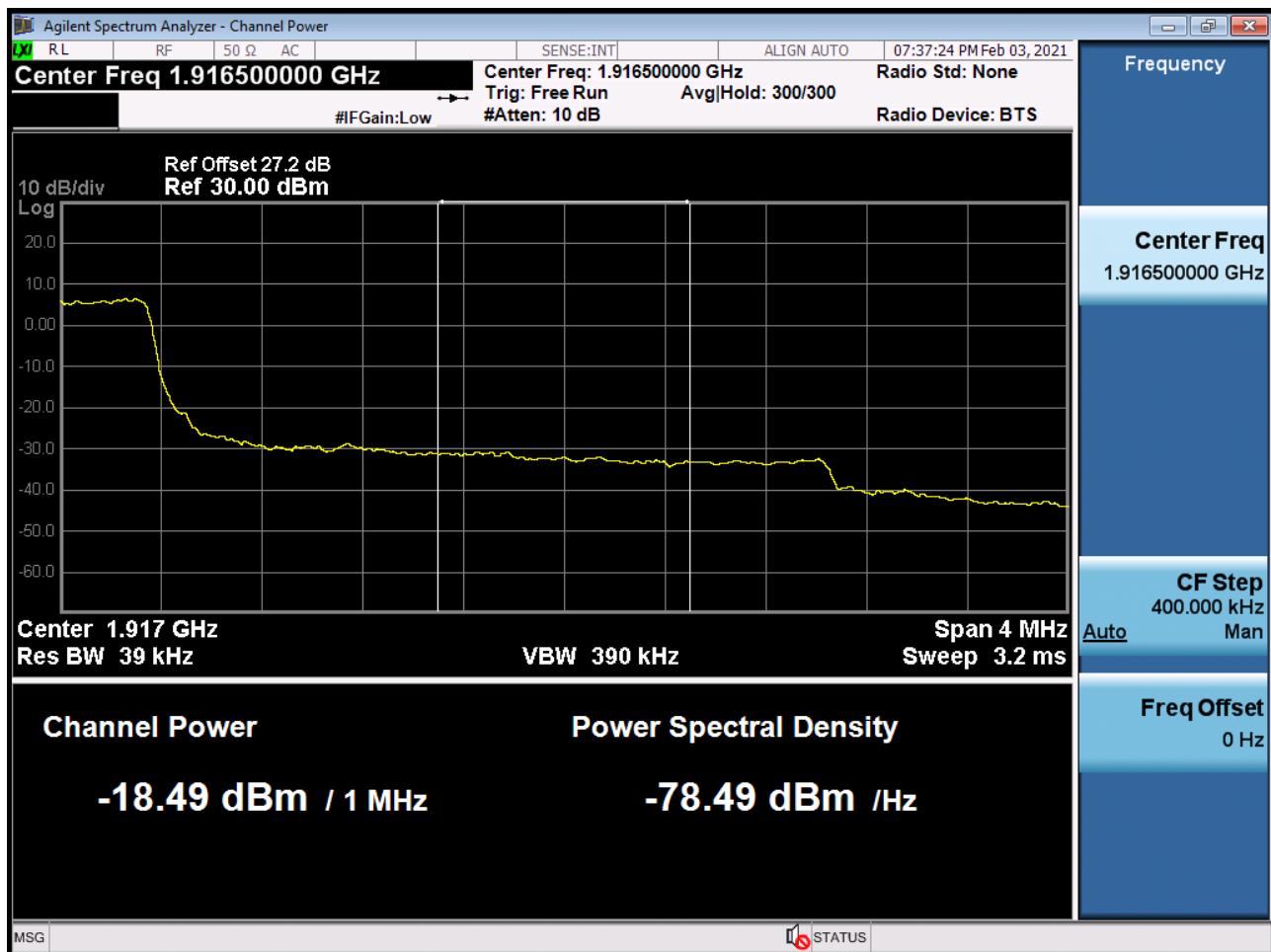
BAND 25/2. Upper Band Edge Plot (3M BW Ch.26675 QPSK\_RB1\_Offset 14)



BAND 25/2. Upper Band Edge Plot (3M BW Ch.26675 QPSK\_RB15\_Offset 0) -1



BAND 25/2. Upper Extended Band Edge Plot (3M BW Ch.26675 QPSK\_RB15 0) -2



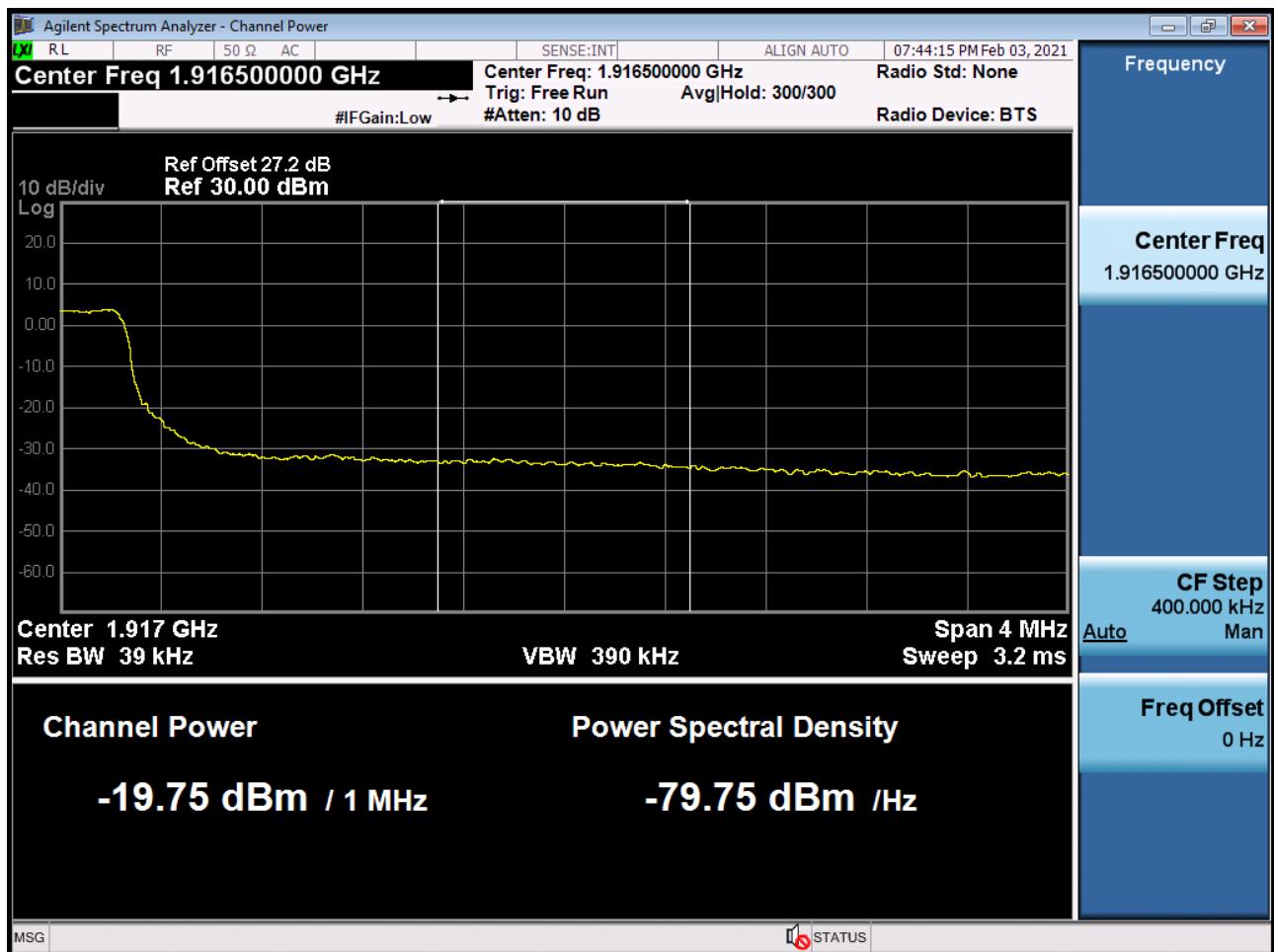
BAND 25/2. Upper Band Edge Plot (5M BW Ch.26665 QPSK\_RB1\_Offset 24)



BAND 25/2. Upper Band Edge Plot (5M BW Ch.26665 QPSK\_RB25\_Offset 0) -1



BAND 25/2. Upper Extended Band Edge Plot (5M BW Ch.26665 QPSK\_RB25\_0) -2



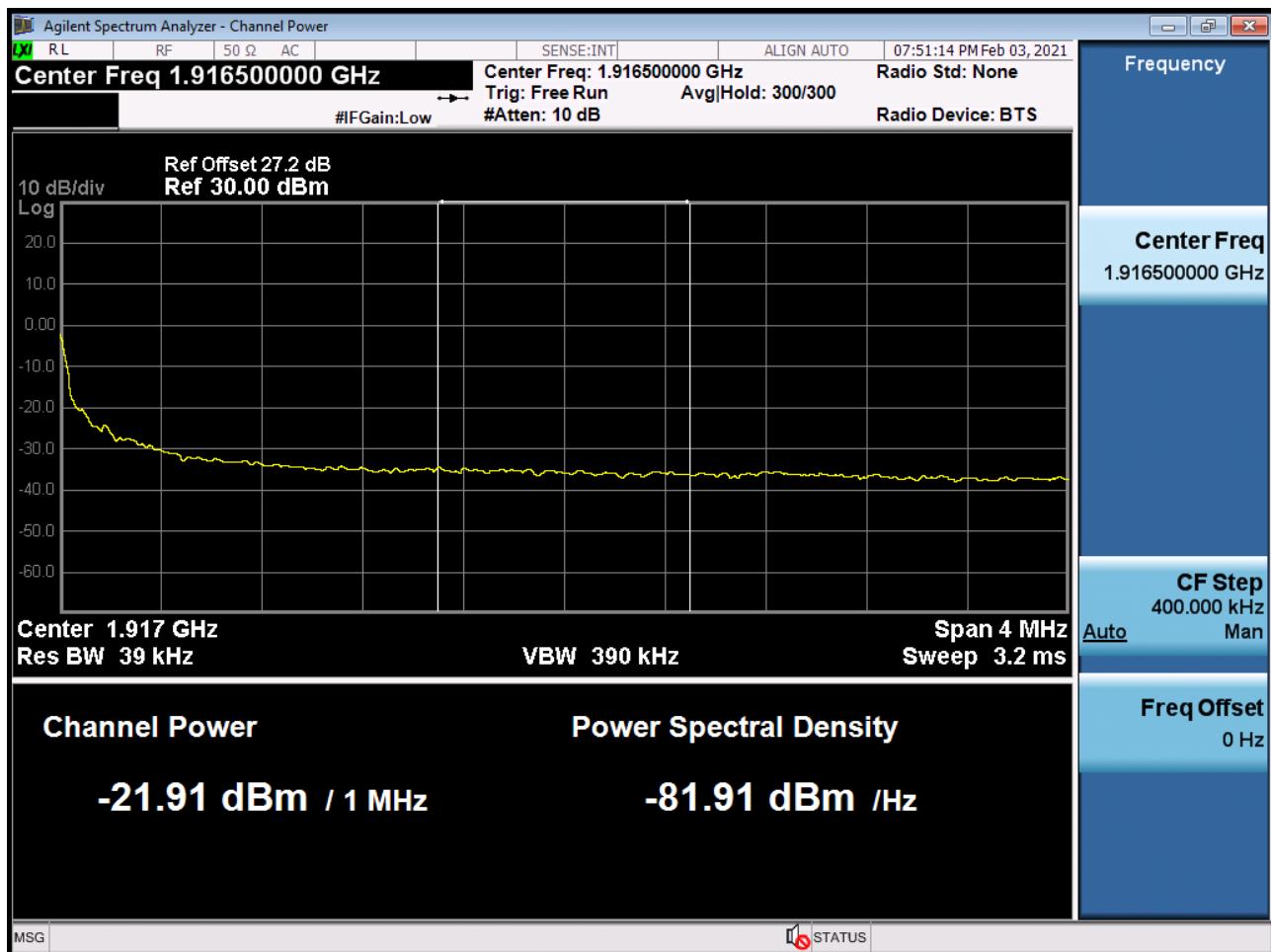
BAND 25/2. Upper Band Edge Plot (10M BW Ch.26640 QPSK\_RB1\_Offset 49)



BAND 25/2. Upper Band Edge Plot (10M BW Ch.26640 QPSK\_RB50\_Offset 0) -1



BAND 25/2. Upper Extended Band Edge Plot (10M BW Ch.26640 QPSK\_RB50\_0) -2



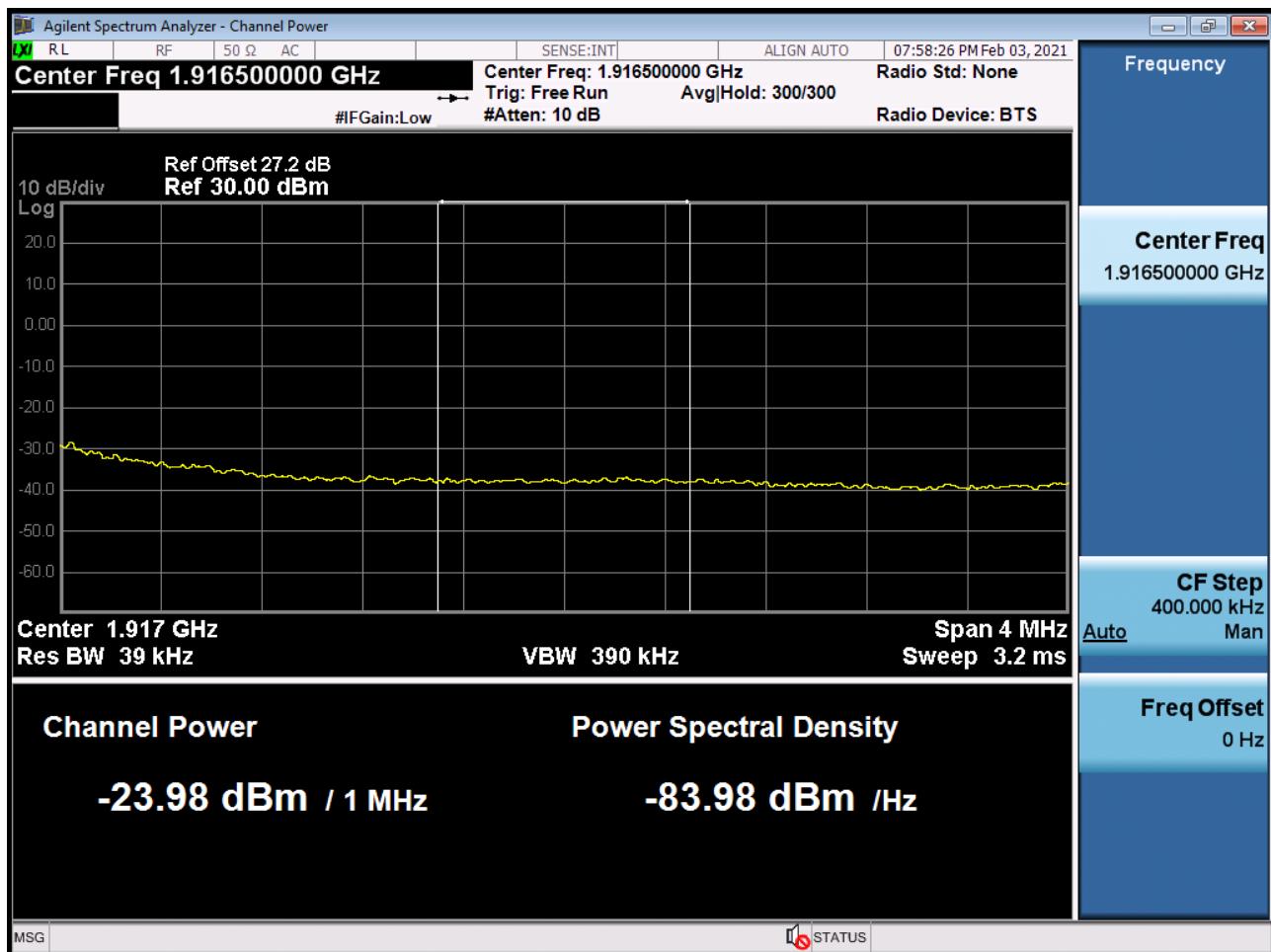
BAND 25/2. Upper Band Edge Plot (15M BW Ch.26615 QPSK\_RB1\_Offset 74)



BAND 25/2. Upper Band Edge Plot (15M BW Ch.26615 QPSK\_RB75\_Offset 0) -1



BAND 25/2. Upper Extended Band Edge Plot (15M BW Ch.26615 QPSK\_RB75\_0) -2



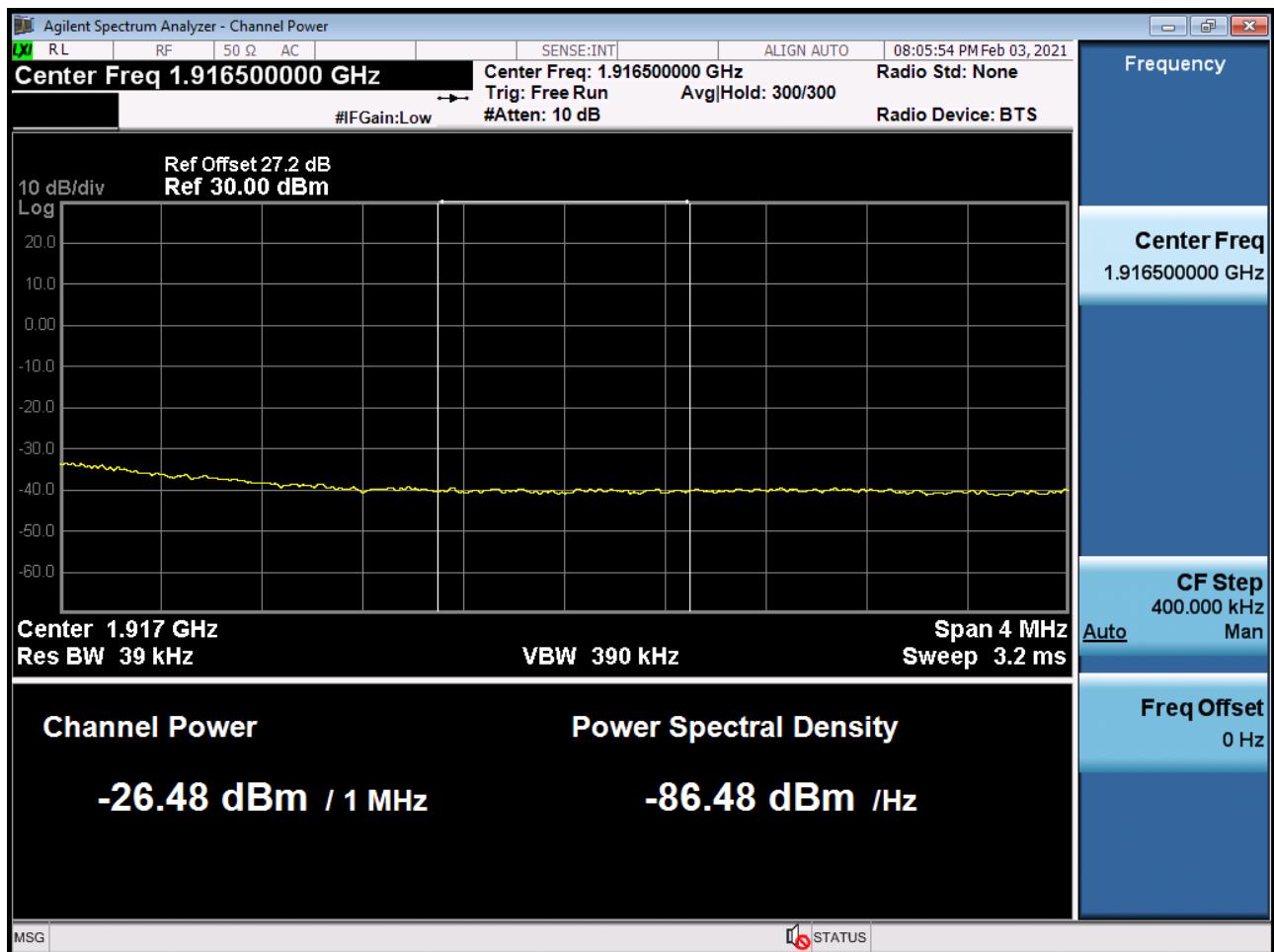
BAND 25/2. Upper Band Edge Plot (20M BW Ch.26590 QPSK\_RB1\_Offset 99)



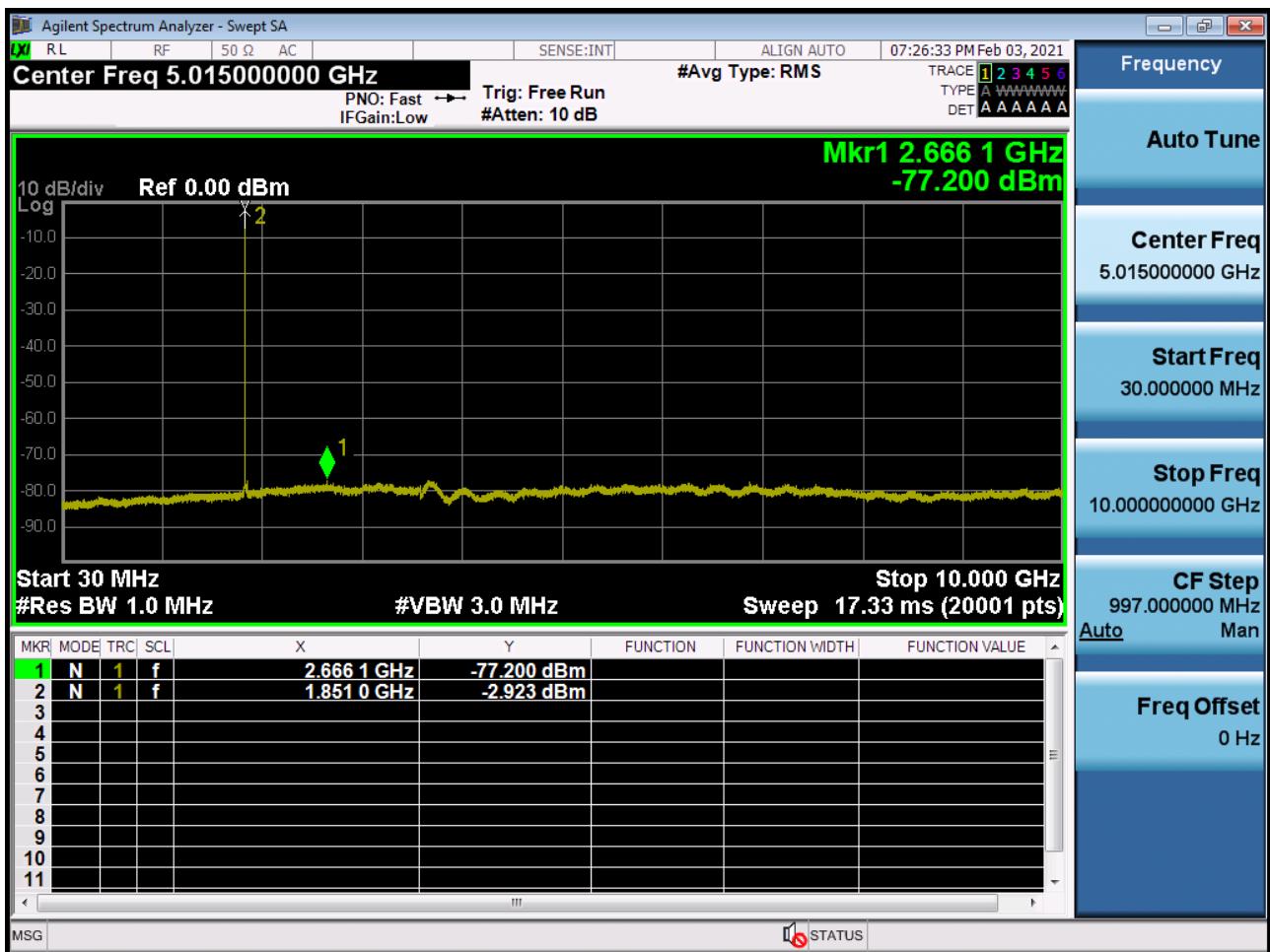
BAND 25/2. Upper Band Edge Plot (20M BW Ch.26590 QPSK\_RB100\_Offset 0) -1



BAND 25/2. Upper Extended Band Edge Plot (20M BW Ch.26590 QPSK\_RB100\_0) -2



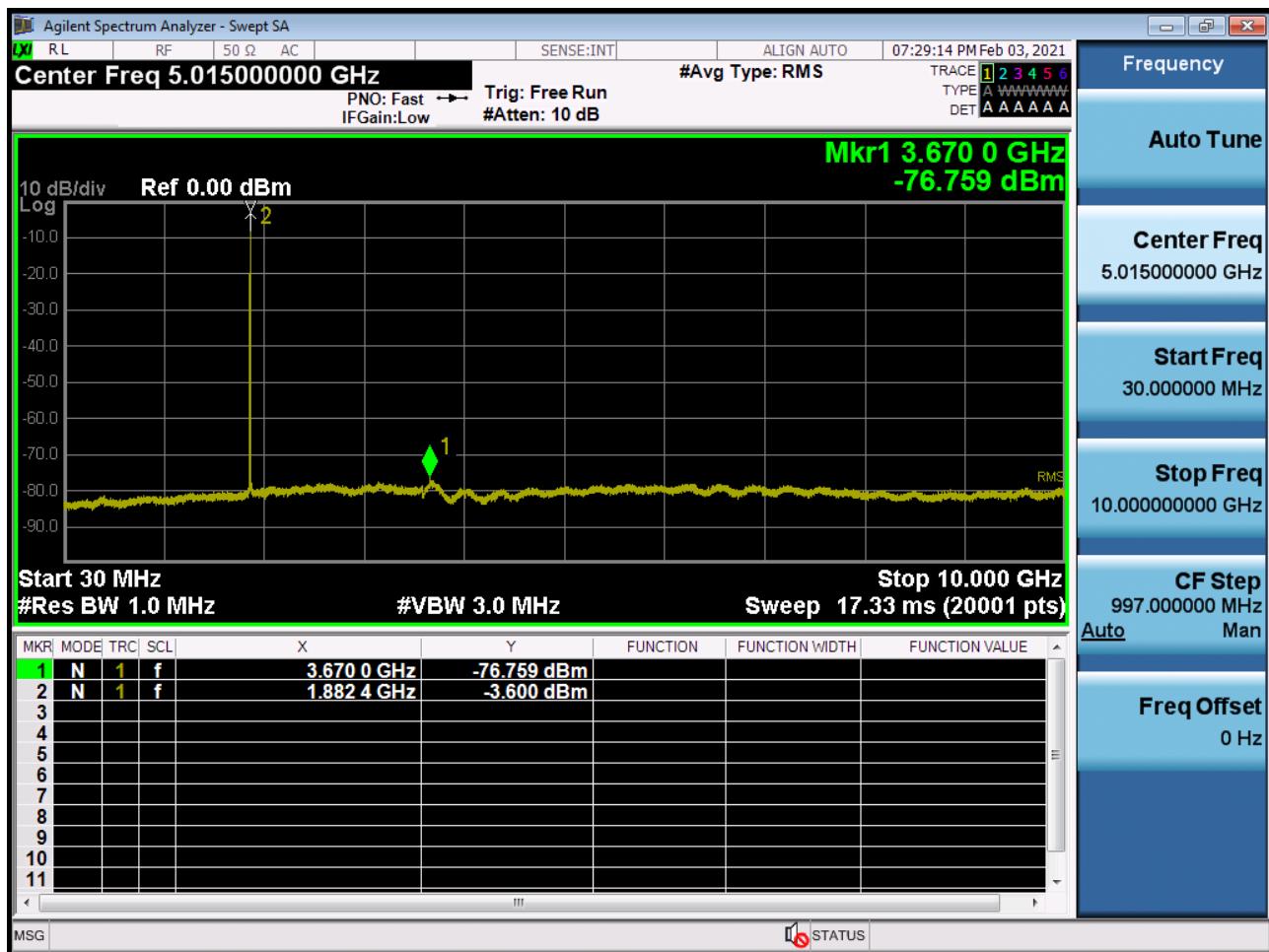
BAND 25/2. Conducted Spurious\_1 (26047ch\_1.4MHz\_QPSK\_RB 1\_0)



BAND 25/2. Conducted Spurious\_2 (26047ch\_1.4MHz\_QPSK\_RB 1\_0)



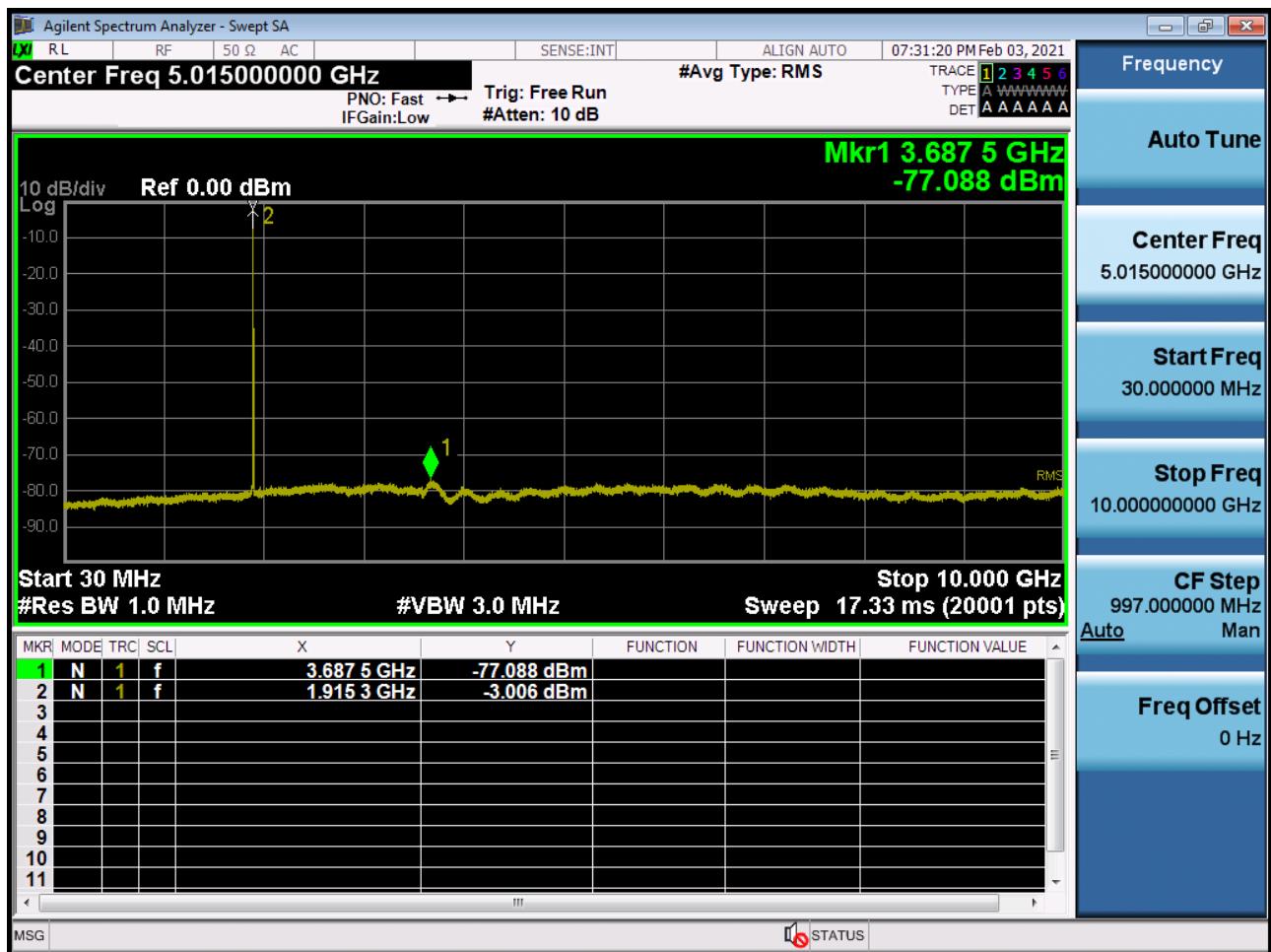
BAND 25/2. Conducted Spurious\_1 (26365ch\_1.4MHz\_QPSK\_RB 1\_0)



BAND 25/2. Conducted Spurious\_2 (26365ch\_1.4MHz\_QPSK\_RB 1\_0)



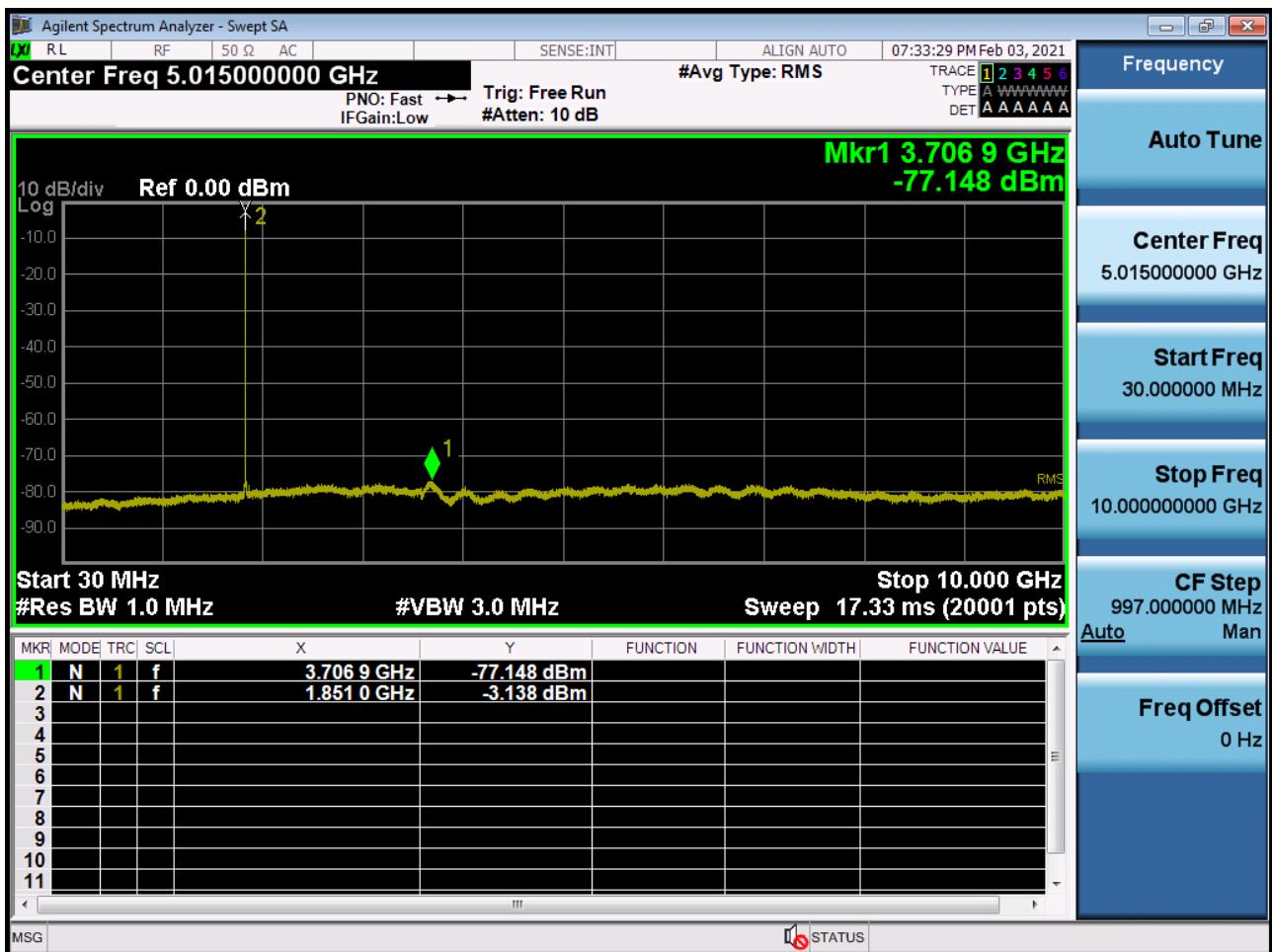
BAND 25/2. Conducted Spurious\_1 (26683ch\_1.4MHz\_QPSK\_RB 1\_0)



BAND 25/2. Conducted Spurious\_2 (26683ch\_1.4MHz\_QPSK\_RB 1\_0)



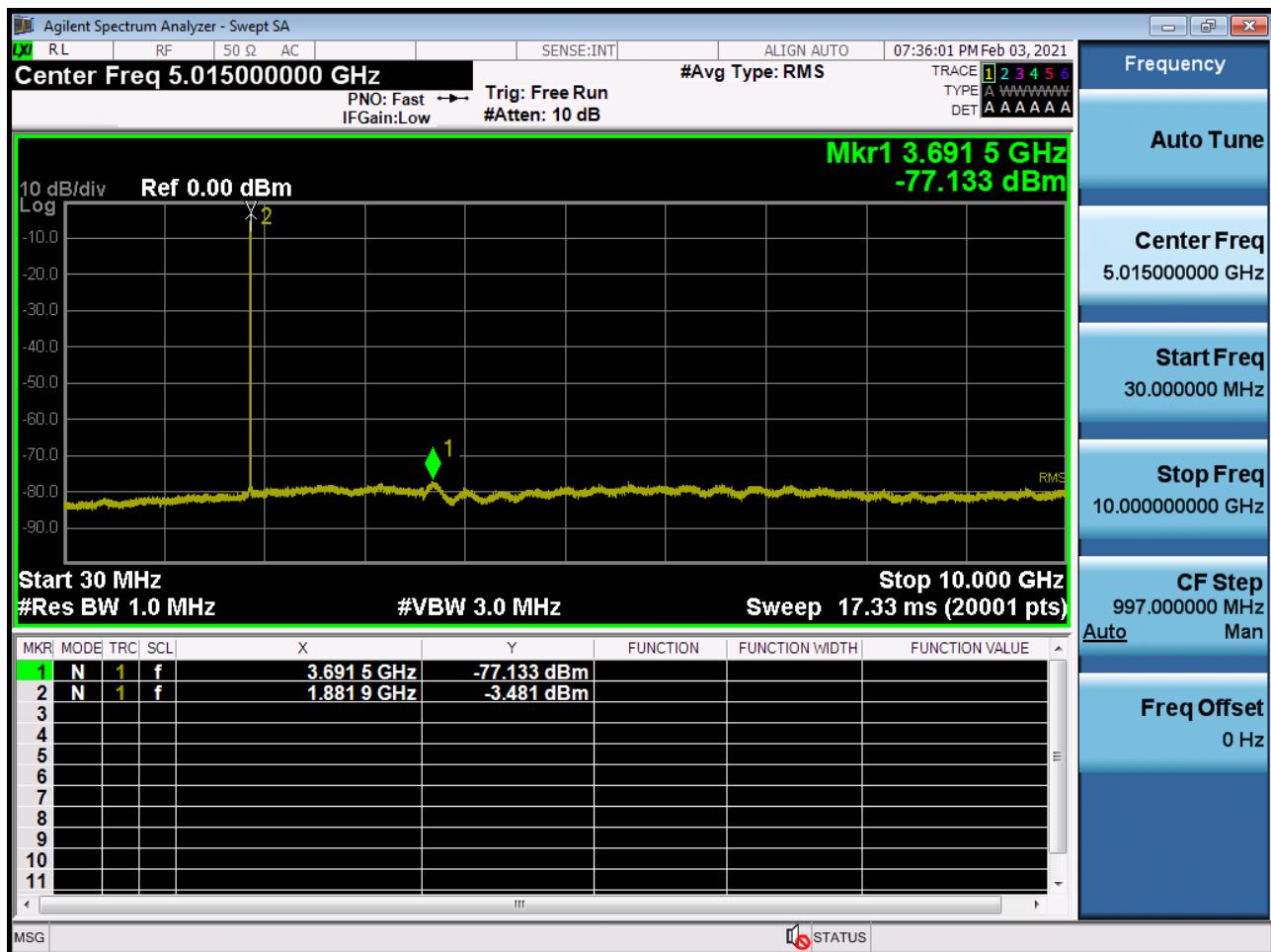
BAND 25/2. Conducted Spurious\_1 (26055ch\_3MHz\_QPSK\_RB 1\_0)



BAND 25/2. Conducted Spurious\_2 (26055ch\_3MHz\_QPSK\_RB 1\_0)



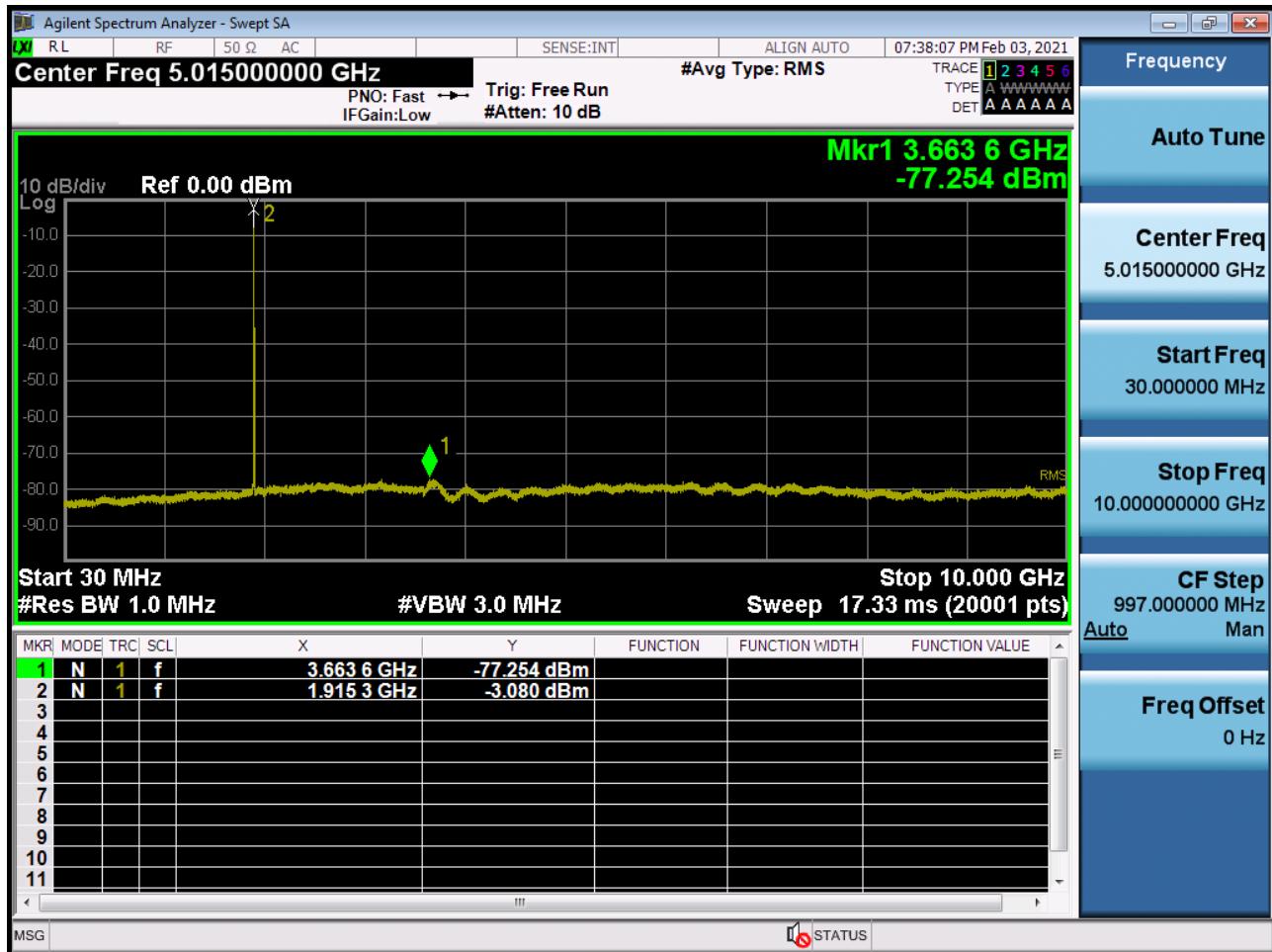
BAND 25/2. Conducted Spurious\_1 (26365ch\_3MHz\_QPSK\_RB 1\_0)



BAND 25/2. Conducted Spurious\_2 (26365ch\_3MHz\_QPSK\_RB 1\_0)



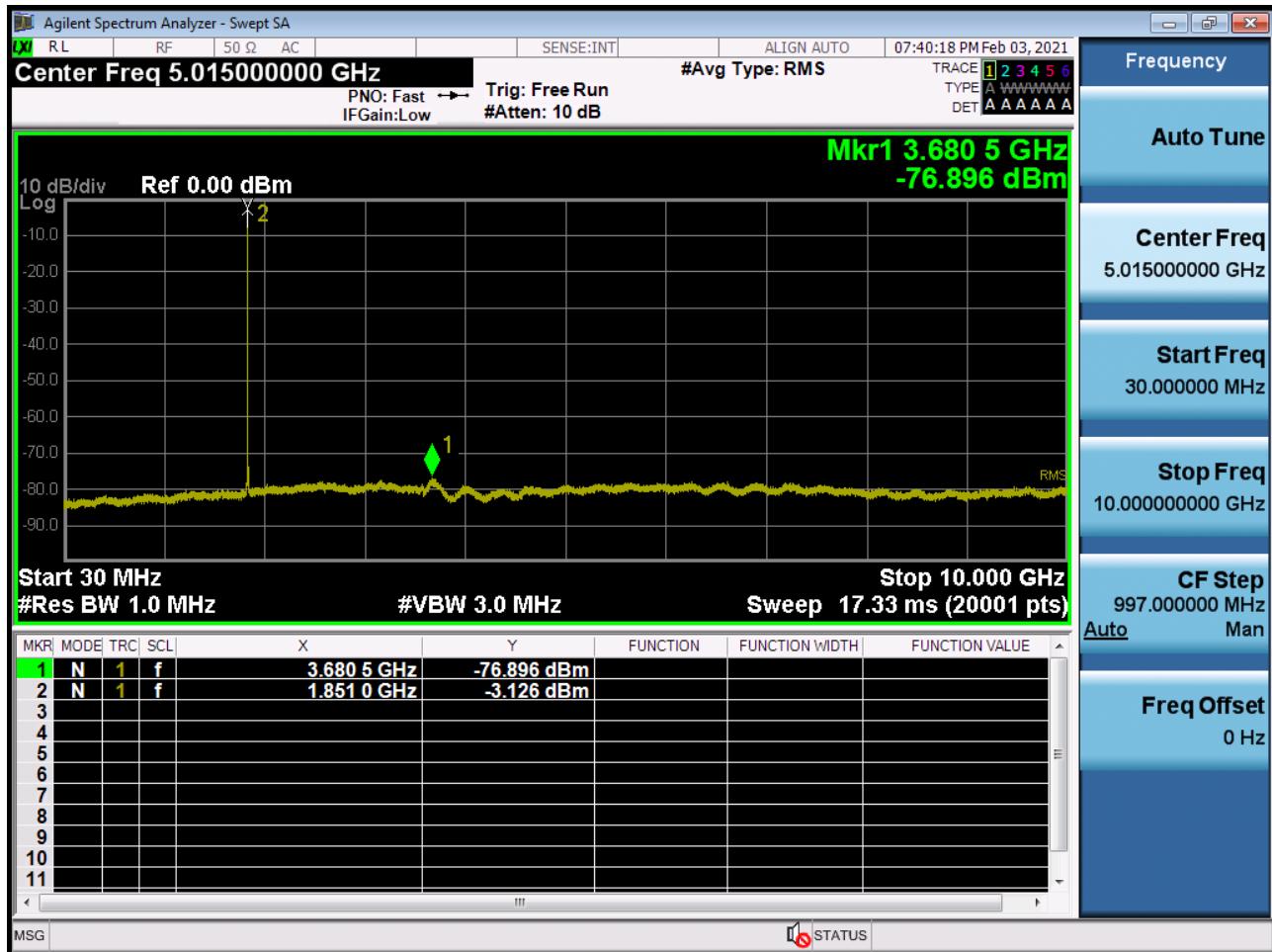
BAND 25/2. Conducted Spurious\_1 (26675ch\_3MHz\_QPSK\_RB 1\_0)



BAND 25/2. Conducted Spurious\_2 (26675ch\_3MHz\_QPSK\_RB 1\_0)



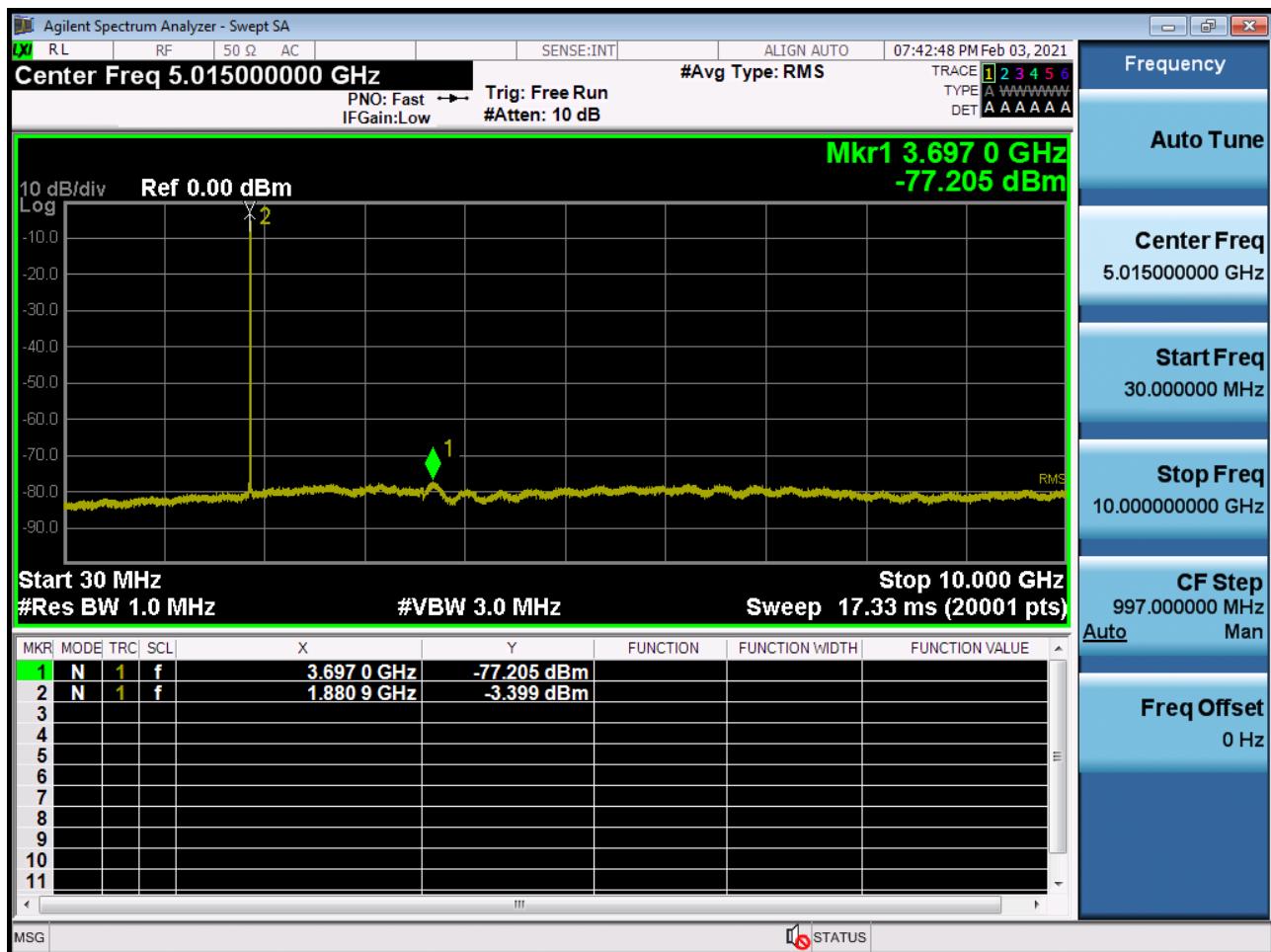
BAND 25/2. Conducted Spurious\_1 (26065ch\_5MHz\_QPSK\_RB 1\_0)



BAND 25/2. Conducted Spurious\_2 (26065ch\_5MHz\_QPSK\_RB 1\_0)



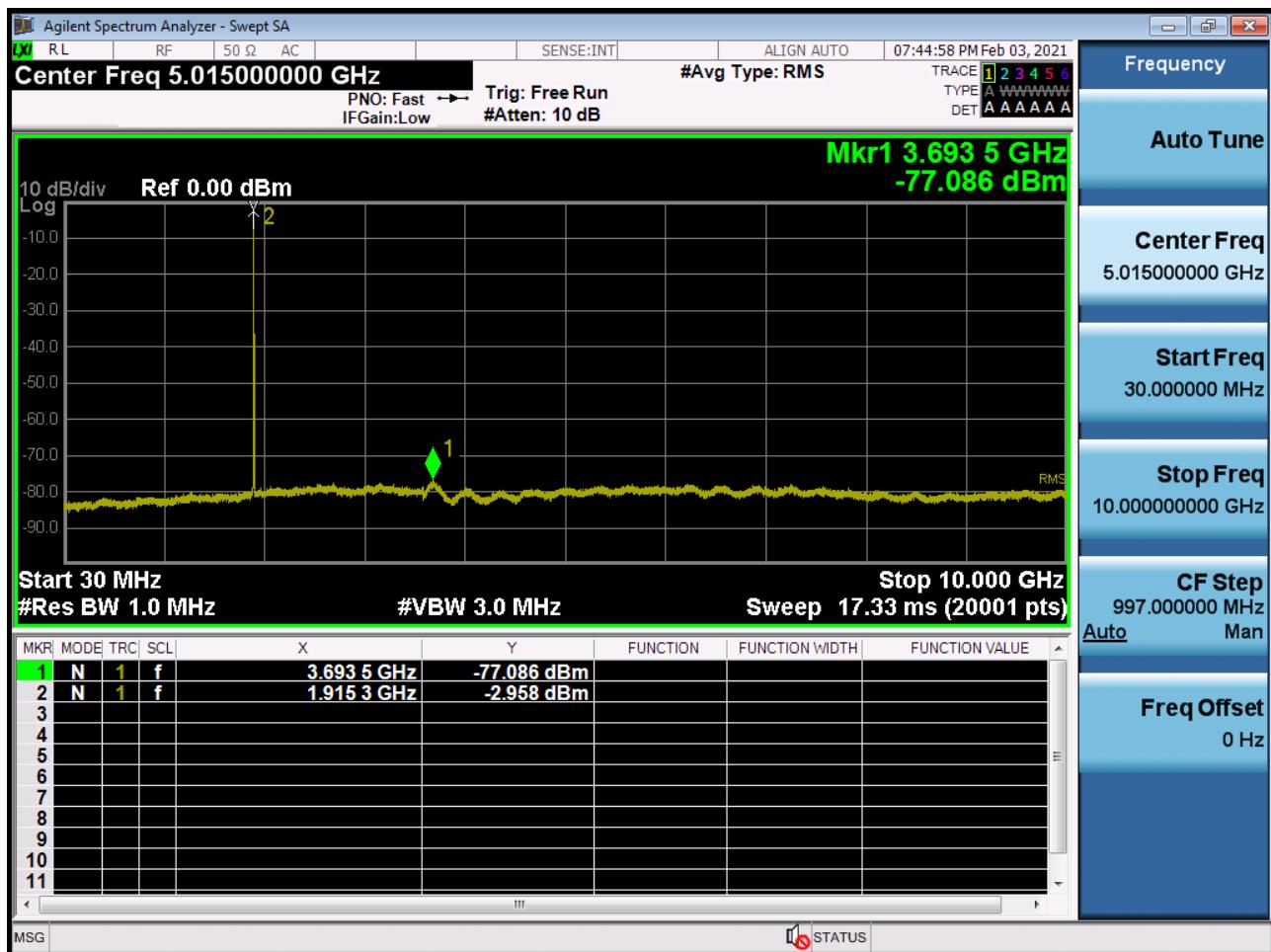
BAND 25/2. Conducted Spurious\_1 (26365ch\_5MHz\_QPSK\_RB 1\_0)



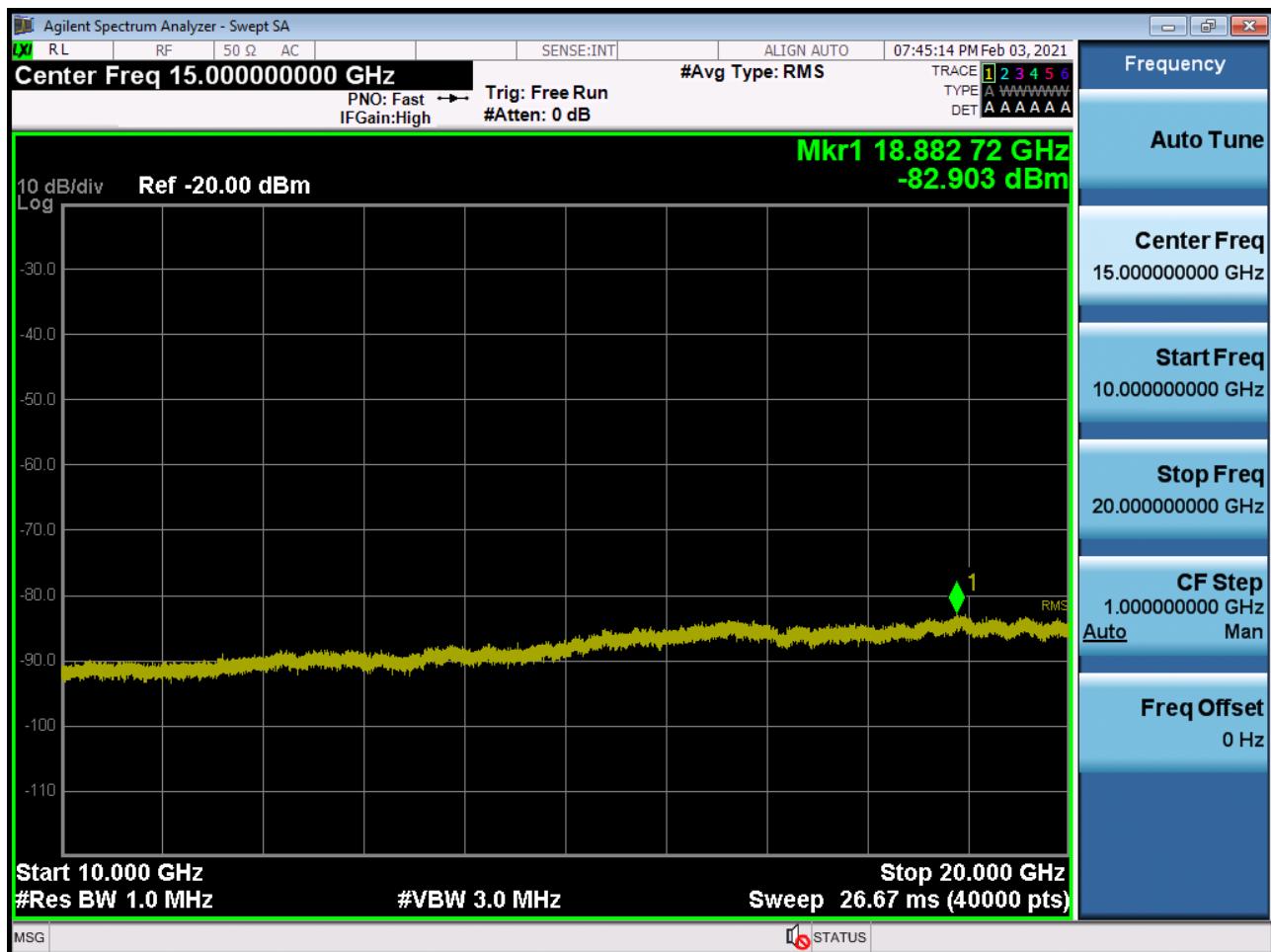
BAND 25/2. Conducted Spurious\_2 (26365ch\_5MHz\_QPSK\_RB 1\_0)



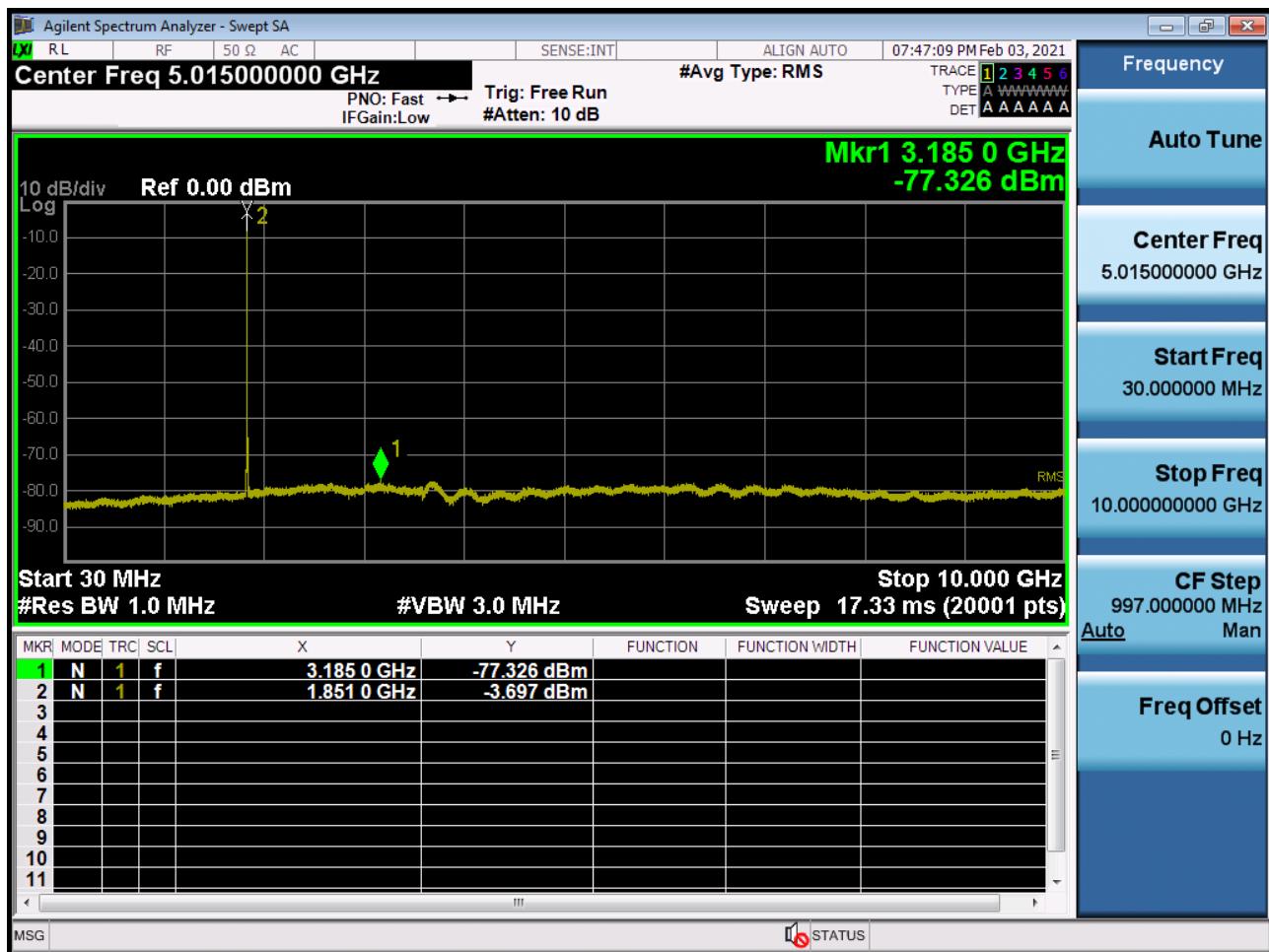
BAND 25/2. Conducted Spurious\_1 (26665ch\_5MHz\_QPSK\_RB 1\_0)



BAND 25/2. Conducted Spurious\_2 (26665ch\_5MHz\_QPSK\_RB 1\_0)



BAND 25/2. Conducted Spurious\_1 (26090ch\_10MHz\_QPSK\_RB 1\_0)



BAND 25/2. Conducted Spurious\_2 (26090ch\_10MHz\_QPSK\_RB 1\_0)



BAND 25/2. Conducted Spurious\_1 (26365ch\_10MHz\_QPSK\_RB 1\_0)

