

TEST REPORT

FCC Sub6 n77(78) Test for SM-A276U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2604-FC034

DATE OF ISSUE
April 23, 2026

Tested by
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TEST REPORT

REPORT NO.

HCT-RF-2604-FC034

DATE OF ISSUE

April 23, 2026

Additional Model

SM-A276U1, SM-S276V

Applicant

SAMSUNG Electronics Co., Ltd.

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

Product Name

Mobile Phone

Model Name

SM-A276U

Date of Test

March 11, 2026 ~ April 22, 2026

FCC ID

A3LSMA276U

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 Held to Ear (PCE)

Test Standard Used

FCC Rule Part: § 27

Test Results

PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	April 23, 2026	Initial Release

Notice

Content

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

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

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

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

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

Information provided by the applicant is marked **.

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

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

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

Model(s):	SM-A276U
Additional Model(s)	SM-A276U1, SM-S276V
SCS(kHz):	30
Bandwidth(MHz):	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
Waveform:	CP-OFDM, DFT-S-OFDM
Modulation:	DFT-S-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
Tx Frequency: (3450 MHz - 3550 MHz)	3455.01 MHz – 3544.99 MHz (Sub6 n77(78)(10 MHz)) 3457.50 MHz – 3542.50 MHz (Sub6 n77(78)(15 MHz)) 3460.02 MHz – 3540.00 MHz (Sub6 n77(78)(20 MHz)) 3462.50 MHz – 3537.50 MHz (Sub6 n77(78)(25 MHz)) 3465.00 MHz – 3534.99 MHz (Sub6 n77(78)(30 MHz)) 3470.01 MHz – 3529.98 MHz (Sub6 n77(78)(40 MHz)) 3475.02 MHz – 3525.00 MHz (Sub6 n77(78)(50 MHz)) 3480.00 MHz – 3519.99 MHz (Sub6 n77(78)(60 MHz)) 3485.01 MHz – 3514.98 MHz (Sub6 n77(78)(70 MHz)) 3490.02 MHz – 3510.00 MHz (Sub6 n77(78)(80 MHz)) 3495.00 MHz – 3504.99 MHz (Sub6 n77(78)(90 MHz)) 3500.01 MHz (Sub6 n77(78)(100 MHz))
Tx Frequency: (3700 MHz - 3980 MHz)	3705.00 MHz – 3975.00 MHz (Sub6 n77(78)(10 MHz)) 3707.51 MHz – 3972.48 MHz (Sub6 n77(78)(15 MHz)) 3710.01 MHz – 3969.99 MHz (Sub6 n77(78)(20 MHz)) 3712.50 MHz – 3967.50 MHz (Sub6 n77(78)(25 MHz)) 3715.02 MHz – 3964.98 MHz (Sub6 n77(78)(30 MHz)) 3720.00 MHz – 3960.00 MHz (Sub6 n77(78)(40 MHz)) 3725.10 MHz – 3954.99 MHz (Sub6 n77(78)(50 MHz)) 3730.02 MHz – 3949.98 MHz (Sub6 n77(78)(60 MHz)) 3735.00 MHz – 3945.00 MHz (Sub6 n77(78)(70 MHz)) 3740.01 MHz – 3939.99 MHz (Sub6 n77(78)(80 MHz)) 3745.02 MHz – 3934.98 MHz (Sub6 n77(78)(90 MHz)) 3750.00 MHz – 3930.00 MHz (Sub6 n77(78)(100 MHz))
Serial number:	Radiated : R3GL30N9KXD Conducted : 9aece1613d127ece
Antenna Information	Please refer to the Antenna Specification document.

1.1. MAXIMUM OUTPUT POWER

1. 3450 MHz - 3550 MHz

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n77(78) (10)	3455.01 – 3544.99	8M66G7D	PI/2 BPSK	0.220	23.43
		8M66G7D	QPSK	0.213	23.28
		8M70W7D	16QAM	0.170	22.31
		8M66W7D	64QAM	0.133	21.25
		8M67W7D	256QAM	0.070	18.43
Sub6 n77(78) (15)	3457.50 – 3542.50	12M9G7D	PI/2 BPSK	0.230	23.62
		12M9G7D	QPSK	0.230	23.61
		13M0W7D	16QAM	0.177	22.48
		13M0W7D	64QAM	0.130	21.13
		12M9W7D	256QAM	0.076	18.83
Sub6 n77(78) (20)	3460.02 – 3540.00	17M9G7D	PI/2 BPSK	0.229	23.59
		18M0G7D	QPSK	0.226	23.54
		18M0W7D	16QAM	0.175	22.44
		17M9W7D	64QAM	0.130	21.13
		18M0W7D	256QAM	0.077	18.87
Sub6 n77(78) (25)	3462.50 – 3537.50	23M0G7D	PI/2 BPSK	0.247	23.93
		22M9G7D	QPSK	0.242	23.83
		23M1W7D	16QAM	0.187	22.72
		22M9W7D	64QAM	0.138	21.41
		22M9W7D	256QAM	0.083	19.19
Sub6 n77(78) (30)	3465.00 – 3534.99	27M0G7D	PI/2 BPSK	0.237	23.74
		26M9G7D	QPSK	0.233	23.67
		26M9W7D	16QAM	0.186	22.70
		26M9W7D	64QAM	0.133	21.23
		26M9W7D	256QAM	0.079	18.96
Sub6 n77(78) (40)	3470.01 – 3529.98	35M9G7D	PI/2 BPSK	0.243	23.85
		35M9G7D	QPSK	0.237	23.75
		35M8W7D	16QAM	0.188	22.74
		35M8W7D	64QAM	0.138	21.40
		35M9W7D	256QAM	0.081	19.10
Sub6 n77(78) (50)	3475.02 – 3525.00	46M0G7D	PI/2 BPSK	0.219	23.41
		45M7G7D	QPSK	0.218	23.39
		45M7W7D	16QAM	0.170	22.31
		45M8W7D	64QAM	0.126	21.00
		45M8W7D	256QAM	0.074	18.72

Sub6 n77(78) (60)	3480.00 – 3519.99	58M1G7D	PI/2 BPSK	0.224	23.50
		57M9G7D	QPSK	0.221	23.45
		58M1W7D	16QAM	0.173	22.39
		58M0W7D	64QAM	0.128	21.07
		58M0W7D	256QAM	0.076	18.80
Sub6 n77(78) (70)	3485.01 – 3514.98	64M6G7D	PI/2 BPSK	0.223	23.49
		64M6G7D	QPSK	0.220	23.43
		64M5W7D	16QAM	0.173	22.39
		64M5W7D	64QAM	0.126	21.02
		64M8W7D	256QAM	0.075	18.73
Sub6 n77(78) (80)	3490.02 – 3510.00	77M3G7D	PI/2 BPSK	0.225	23.53
		77M3G7D	QPSK	0.223	23.48
		77M3W7D	16QAM	0.176	22.45
		77M3W7D	64QAM	0.128	21.08
		77M3W7D	256QAM	0.076	18.81
Sub6 n77(78) (90)	3495.00 – 3504.99	87M0G7D	PI/2 BPSK	0.228	23.58
		87M1G7D	QPSK	0.218	23.39
		87M1W7D	16QAM	0.179	22.53
		87M1W7D	64QAM	0.129	21.12
		87M0W7D	256QAM	0.076	18.80
Sub6 n77(78) (100)	3500.01	96M5G7D	PI/2 BPSK	0.229	23.60
		96M5G7D	QPSK	0.225	23.53
		96M7W7D	16QAM	0.176	22.46
		96M7W7D	64QAM	0.130	21.14
		96M4W7D	256QAM	0.077	18.88

2. 3700 MHz - 3980 MHz

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n77(78) (10)	3705.00 – 3975.00	8M70G7D	PI/2 BPSK	0.457	26.60
		8M72G7D	QPSK	0.446	26.49
		8M65W7D	16QAM	0.341	25.33
		8M68W7D	64QAM	0.249	23.97
		8M67W7D	256QAM	0.161	22.07
Sub6 n77(78) (15)	3707.51 – 3972.48	12M9G7D	PI/2 BPSK	0.494	26.94
		12M9G7D	QPSK	0.492	26.92
		13M0W7D	16QAM	0.379	25.79
		12M9W7D	64QAM	0.283	24.52
		12M9W7D	256QAM	0.169	22.29
Sub6 n77(78) (20)	3710.01 – 3969.99	18M0G7D	PI/2 BPSK	0.500	26.99
		17M9G7D	QPSK	0.492	26.92
		18M0W7D	16QAM	0.387	25.88
		17M9W7D	64QAM	0.282	24.51
		18M0W7D	256QAM	0.167	22.22
Sub6 n77(78) (25)	3712.50 – 3967.50	23M0G7D	PI/2 BPSK	0.596	27.75
		22M9G7D	QPSK	0.586	27.68
		23M0W7D	16QAM	0.462	26.65
		23M0W7D	64QAM	0.335	25.25
		23M0W7D	256QAM	0.198	22.97
Sub6 n77(78) (30)	3715.02 – 3964.98	26M9G7D	PI/2 BPSK	0.495	26.95
		26M9G7D	QPSK	0.493	26.93
		26M8W7D	16QAM	0.388	25.89
		26M9W7D	64QAM	0.282	24.50
		26M9W7D	256QAM	0.166	22.20
Sub6 n77(78) (40)	3720.00 – 3960.00	35M8G7D	PI/2 BPSK	0.516	27.13
		35M7G7D	QPSK	0.513	27.10
		35M7W7D	16QAM	0.401	26.03
		35M8W7D	64QAM	0.291	24.64
		35M7W7D	256QAM	0.174	22.40
Sub6 n77(78) (50)	3725.10 – 3954.99	45M7G7D	PI/2 BPSK	0.472	26.74
		45M8G7D	QPSK	0.469	26.71
		45M8W7D	16QAM	0.365	25.62
		45M8W7D	64QAM	0.269	24.30
		45M9W7D	256QAM	0.160	22.05
Sub6 n77(78) (60)	3730.02 – 3949.98	58M1G7D	PI/2 BPSK	0.481	26.82
		58M0G7D	QPSK	0.473	26.75
		57M9W7D	16QAM	0.373	25.72
		57M9W7D	64QAM	0.272	24.34
		58M0W7D	256QAM	0.162	22.10

Sub6 n77(78) (70)	3735.00 – 3945.00	64M5G7D	PI/2 BPSK	0.472	26.74
		64M6G7D	QPSK	0.469	26.71
		64M6W7D	16QAM	0.366	25.63
		64M4W7D	64QAM	0.267	24.27
		64M8W7D	256QAM	0.160	22.03
Sub6 n77(78) (80)	3740.01 – 3939.99	77M1G7D	PI/2 BPSK	0.480	26.81
		77M5G7D	QPSK	0.473	26.75
		77M2W7D	16QAM	0.374	25.73
		77M3W7D	64QAM	0.271	24.33
		77M3W7D	256QAM	0.160	22.03
Sub6 n77(78) (90)	3745.02 – 3934.98	87M1G7D	PI/2 BPSK	0.474	26.76
		87M0G7D	QPSK	0.469	26.71
		86M9W7D	16QAM	0.367	25.65
		86M9W7D	64QAM	0.270	24.32
		86M9W7D	256QAM	0.159	22.01
Sub6 n77(78) (100)	3750.00 – 3930.00	96M6G7D	PI/2 BPSK	0.441	26.44
		96M5G7D	QPSK	0.425	26.28
		96M6W7D	16QAM	0.344	25.36
		96M4W7D	64QAM	0.249	23.96
		96M3W7D	256QAM	0.145	21.62

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

2.2. MEASURING INSTRUMENT CALIBRATION

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

2.3. TEST FACILITY

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

Detailed description of test facility was submitted to the Commission and accepted dated February 26, 2026 (Registration Number: KR0032).

2.4. EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to ANSI/USEMCSC C63.2-2023, "American National Standard for Specifications of Electromagnetic Interference and Field Strength Measuring Instrumentation in the Frequency Range 9 kHz to 40 GHz".

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	- KDB 971168 D01 v03r01 - Section 5.2.4 - ANSI C63.26-2015 - Section 5.2.1 & 5.2.4.2
Peak- to- Average Ratio	- KDB 971168 D01 v03r01 – Section 5.7 - ANSI C63.26-2015 – Section 5.2.3.4
Frequency stability	- ANSI C63.26-2015 – Section 5.6
Radiated Power	- ANSI C63.26-2015 – Section 5.2.4.4 - KDB 971168 D01 v03r01 – Section 5.8
Radiated Spurious and Harmonic Emissions	- ANSI C63.26-2015 – Section 5.5.3 - KDB 971168 D01 v03r01 – Section 5.8

3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

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

Test Settings

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

Test Note

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

The power is calculated by the following formula;

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

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

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

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

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

3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method.

Test Settings

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

Test Note

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

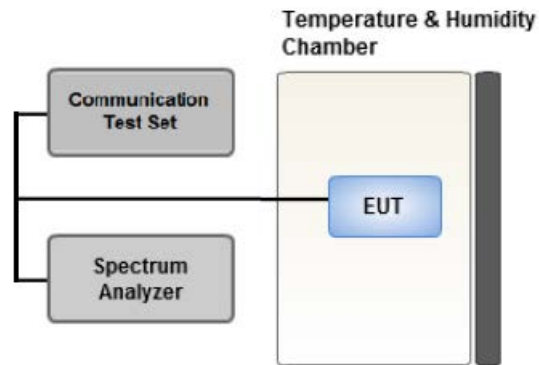
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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.

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

3.4 PEAK- TO- AVERAGE RATIO

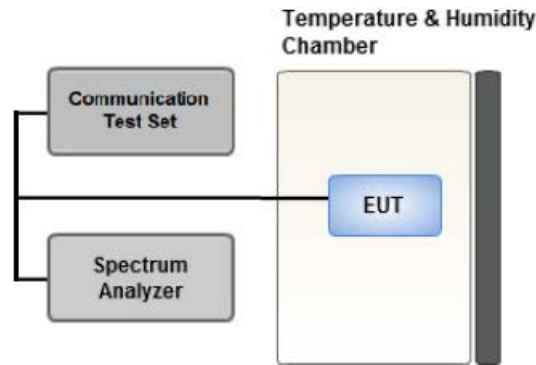


Test setup

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 %.

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.

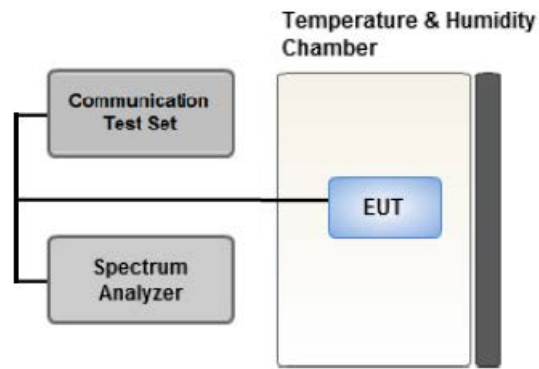
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

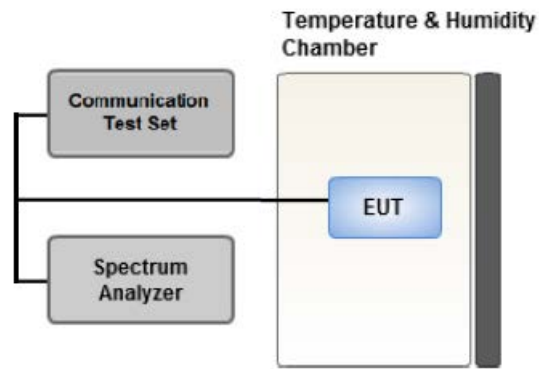
Test Overview

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 = Peak
4. Trace Mode = max hold
5. Sweep time = auto
6. Number of points in sweep = 1001 pts

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 $\geq 2 \times \text{Span/RBW}$
7. Trace mode = trace average
8. Sweep time > (Number of Points) $\times$ (Symbol Period)
9. The trace was allowed to stabilize

Test Notes

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater.

However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz.

In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

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

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater.

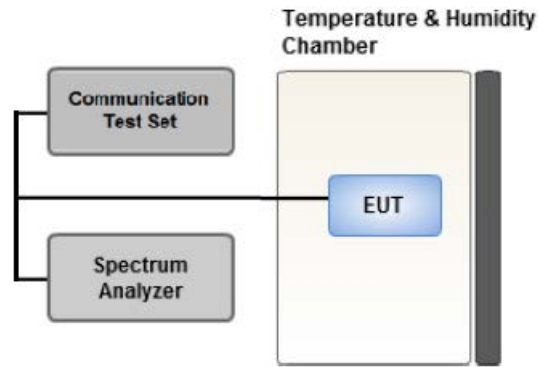
However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz.

In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

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

Where $\text{Margin} < 1$ 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)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- NR n77 (3450 – 3550 MHz / 3700 – 3980 MHz) overlaps the entire frequency range of NR n78 (3450 - 3550 MHz / 3700 – 3800 MHz) and they have the same Tune-up power.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA, SRS
Worst case: SA
Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)
Worst case : Stand alone
- All simultaneous transmission scenarios of operation were investigated, and the test results showed no additional significant emissions relative to the least restrictive limit were observed.
Therefore, only the worst case(stand-alone) results were reported.
- All power classes were tested, and the results were reported for the worst case PC2.
- Radiated Spurious emissions are measured while operating in EN-DC mode with Sub 6 NR carrier as well as an LTE carrier (anchor).
All EN-DC mode of operation (=anchor) were investigated and the test results were measured No Peak Found.
The test results which are attenuated more than 20 dB below the permissible value, so it was not reported.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.
- In the case of radiated spurious emissions, all bandwidth of operation were investigated and the worst case bandwidth results are reported. (Worst case : 25 MHz)
- SM-A276U & additional models were tested and the worst case results are reported.
(Worst case : SM-A276U)

[3450 MHz - 3550 MHz Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Equivalent Isotropic Radiated Power	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	See Section 8.1		Z
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 8.2		Y

[3700 MHz - 3980 MHz Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Equivalent Isotropic Radiated Power	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	See Section 9.1		Z
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 9.2		X

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
(Worst case: PI/2 BPSK)
- NR n77 (3450 – 3550 MHz / 3700 – 3980 MHz) overlaps the entire frequency range of NR n78 (3450 -3550 MHz / 3700 – 3800 MHz) and they have the same Tune-up power.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA, SRS
Worst case: SA
- All power classes were tested, and the results were reported for the worst case PC2.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported. Please refer to the table below.
- SM-A276U & additional models were tested and the worst case results are reported.
(Worst case : SM-A276U)

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth,	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	10, 15, 20,25, 30, 40, 50, 60, 70, 80, 90, 100	Mid	Full RB	0
Peak-To-Average Ratio	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	10, 15, 20,25, 30, 40, 50, 60, 70, 80, 90, 100	Mid	Full RB	0
Band Edge	PI/2 BPSK	10	Low	1	0
			High	1	23
		15	Low	1	0
			High	1	37
		20	Low	1	0
			High	1	50
		25	Low	1	0
			High	1	64
		30	Low	1	0
			High	1	77
		40	Low	1	0
			High	1	105
		50	Low	1	0
			High	1	132
		60	Low	1	0
			High	1	161
		70	Low	1	0
			High	1	188
		80	Low	1	0
			High	1	216
		90	Low	1	0
			High	1	244
		100	Low	1	0
			High	1	272
		10, 15, 20,25, 30, 40, 50, 60, 70, 80, 90, 100	Low, High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	10, 15, 20,25, 30, 40, 50, 60, 70, 80, 90, 100	Low, Mid, High	1	1

4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
Dipole Antenna	UHAP	Schwarzbeck	01273	03/05/2028	Biennial
Dipole Antenna	UHAP	Schwarzbeck	01274	03/05/2028	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	02289	02/10/2028	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	9120D-1299	04/17/2027	Biennial
Horn Antenna	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Horn Antenna	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Loop Antenna	FMZB1513	Schwarzbeck	1513-175	06/24/2027	Biennial
Bilog Antenna	VULB9160	Schwarzbeck	3150	03/05/2027	Biennial
Hybrid Antenna	VULB9168	Schwarzbeck	760	02/17/2027	Biennial
RF Switching System	FBSR-06B (1G HPF + LNA)	T&M SYSTEM	F3L1	05/08/2026	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/08/2026	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/08/2026	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/08/2026	Annual
Broadband LNA	CBL18265035	CERNEX	22966	10/21/2026	Annual
Broadband LNA	CBL26405040	CERNEX	25956	02/09/2027	Annual
DC Power Supply	E3632A	Hewlett Packard	MY40004427	08/11/2026	Annual
Power Splitter	11667B	Hewlett Packard	11275	01/26/2027	Annual
Chamber	SU-642	ESPEC	93008124	02/04/2027	Annual
Signal Analyzer	N9020A	Agilent	MY51110063	04/01/2027	Annual
20dB ATTENUATOR	8493C	Hewlett Packard	15233	12/10/2026	Annual
Signal Analyzer	FSV40	ROHDE & SCHWARZ	101436	01/29/2027	Annual
Signal & Spectrum Analyzer	FSW67	ROHDE & SCHWARZ	101736	05/27/2026	Annual
Wireless Communications Set	E5515C	Agilent	MY48360800	07/29/2026	Annual
Radio Communication Analyzer	MT8821C	Anritsu Corp.	6262287701	05/14/2026	Annual
Radio Communication Test Station	MT8000A	Anritsu Corp.	6262302511	05/08/2026	Annual
Signal Analyzer	N9030B	KEYSIGHT	MY55480167	05/14/2026	Annual
UXM 5G Wireless Test Platform	E7515B	KEYSIGHT	MY60101126	01/29/2027	Annual
Power Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/05/2026	Annual
SIGNAL GENERATOR	SMB100A	ROHDE & SCHWARZ	177633	07/22/2026	Annual
Automation Software	FCC 2G/3G/4G Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC NR Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC LTE Radiated	HCT CO., LTD	-	-	-
Automation Software	FCC NR Radiated	HCT CO., LTD	-	-	-

Note:

1. Equipment whose calibration due date was updated during the test period was not used between the previous due date and the update. All reported measurements were performed using equipment within valid calibration.
2. Especially, all antenna for measurement is calibrated in accordance with the requirements of ANSI C63.5-2017.

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_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

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

Parameter	Expanded Uncertainty ($\pm$ dB)
Block Edge	0.70 (Confidence level about 95 %, $k=2$)
Conducted Spurious Emissions	1.11 (Confidence level about 95 %, $k=2$)
Peak- to- Average Ratio	0.73 (Confidence level about 95 %, $k=2$)
Radiated Power	4.74 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.54 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.74 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.80 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.86 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (Above 40 GHz)	5.44 (Confidence level about 95 %, $k=2$)

6. SUMMARY OF TEST RESULTS

-. The decision rule applies 'simple acceptance'

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, § 27.53(n)(2), § 27.53(l)(2)	< -13 dBm	PASS
Conducted Output Power	§ 2.1046	N/A	PASS_ <u>Note1</u>
Peak- to- Average Ratio	§ 27.50(k)(4), § 27.50(j)(4)	< 13 dB	PASS
Frequency stability / variation of ambient temperature	§ 2.1055, § 27.54	Emission must remain in band	PASS

Note:

1. Refer to the SAR report
2. All conducted tests were tested using 5G Wireless Tester.

6.2 Test Condition : Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Equivalent Isotropic Radiated Power	§ 27.50(k)(3), § 27.50(j)(3)	< 1 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1051, § 27.53(n)(2), § 27.53(l)(2)	< -13 dBm	PASS

Note:

1. Radiated tests were tested using 5G Wireless Tester.

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(3450 MHz - 3550 MHz)

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3455.01	Sub6 n77(78)/ 10 MHz [30 kHz]	PI/2 BPSK	-24.06	14.59	11.38	3.02	H	< 1.00	0.197	22.95	1	1
		QPSK	-24.18	14.47	11.38	3.02	H		0.192	22.83		
		16-QAM	-25.11	13.54	11.38	3.02	H		0.155	21.90		
		64-QAM	-26.50	12.15	11.38	3.02	H		0.112	20.51		
		256-QAM	-28.70	9.95	11.38	3.02	H		0.068	18.31		
3500.01		PI/2 BPSK	-24.09	14.81	11.53	3.06	H		0.213	23.28	1	22
		QPSK	-24.31	14.59	11.53	3.06	H		0.202	23.06		
		16-QAM	-25.29	13.61	11.53	3.06	H		0.161	22.08		
		64-QAM	-26.57	12.33	11.53	3.06	H		0.120	20.80		
		256-QAM	-28.94	9.96	11.53	3.06	H		0.070	18.43		
3544.99		PI/2 BPSK	-23.84	14.85	11.67	3.09	H		0.220	23.43	1	22
		QPSK	-23.99	14.70	11.67	3.09	H		0.213	23.28		
		16-QAM	-24.96	13.73	11.67	3.09	H		0.170	22.31		
		64-QAM	-26.02	12.67	11.67	3.09	H		0.133	21.25		
		256-QAM	-28.84	9.85	11.67	3.09	H		0.070	18.43		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3457.50	Sub6 n77(78)/ 15 MHz [30 kHz]	PI/2 BPSK	-23.72	14.92	11.40	3.02	H	< 1.00	0.214	23.30	1	36
		QPSK	-23.76	14.88	11.40	3.02	H		0.212	23.26		
		16-QAM	-24.84	13.80	11.40	3.02	H		0.165	22.18		
		64-QAM	-26.14	12.50	11.40	3.02	H		0.122	20.88		
		256-QAM	-28.42	10.22	11.40	3.02	H		0.072	18.60		
3500.01		PI/2 BPSK	-23.82	15.08	11.53	3.06	H		0.226	23.55	1	36
		QPSK	-23.92	14.98	11.53	3.06	H		0.221	23.45		
		16-QAM	-24.93	13.97	11.53	3.06	H		0.175	22.44		
		64-QAM	-26.27	12.63	11.53	3.06	H		0.129	21.10		
		256-QAM	-28.56	10.34	11.53	3.06	H		0.076	18.81		
3542.50		PI/2 BPSK	-23.65	15.04	11.67	3.09	H		0.230	23.62	1	36
		QPSK	-23.66	15.03	11.67	3.09	H		0.230	23.61		
		16-QAM	-24.79	13.90	11.67	3.09	H		0.177	22.48		
		64-QAM	-26.14	12.55	11.67	3.09	H		0.130	21.13		
		256-QAM	-28.44	10.25	11.67	3.09	H		0.076	18.83		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3460.02		PI/2 BPSK	-23.72	14.92	11.40	3.02	H	< 1.00	0.214	23.30	1	49
		QPSK	-23.77	14.87	11.40	3.02	H		0.211	23.25		
		16-QAM	-24.83	13.81	11.40	3.02	H		0.166	22.19		
		64-QAM	-26.20	12.44	11.40	3.02	H		0.121	20.82		
		256-QAM	-28.50	10.14	11.40	3.02	H		0.071	18.52		
3500.01	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-23.94	14.96	11.53	3.06	H	< 1.00	0.220	23.43	1	1
		QPSK	-24.01	14.89	11.53	3.06	H		0.217	23.36		
		16-QAM	-25.06	13.84	11.53	3.06	H		0.170	22.31		
		64-QAM	-26.38	12.52	11.53	3.06	H		0.126	20.99		
		256-QAM	-28.68	10.22	11.53	3.06	H		0.074	18.69		
3540.00		PI/2 BPSK	-23.66	15.03	11.65	3.09	H	< 1.00	0.229	23.59	1	49
		QPSK	-23.71	14.98	11.65	3.09	H		0.226	23.54		
		16-QAM	-24.81	13.88	11.65	3.09	H		0.175	22.44		
		64-QAM	-26.12	12.57	11.65	3.09	H		0.130	21.13		
		256-QAM	-28.38	10.31	11.65	3.09	H		0.077	18.87		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3462.50	Sub6 n77(78)/ 25 MHz [30 kHz]	PI/2 BPSK	-23.46	15.22	11.42	3.03	H	< 1.00	0.230	23.61	1	63
		QPSK	-23.53	15.15	11.42	3.03	H		0.226	23.54		
		16-QAM	-24.63	14.05	11.42	3.03	H		0.175	22.44		
		64-QAM	-26.00	12.68	11.42	3.03	H		0.128	21.07		
		256-QAM	-28.13	10.55	11.42	3.03	H		0.078	18.94		
3500.01		PI/2 BPSK	-23.53	15.37	11.53	3.06	H		0.242	23.84	1	63
		QPSK	-23.56	15.34	11.53	3.06	H		0.240	23.81		
		16-QAM	-24.65	14.25	11.53	3.06	H		0.187	22.72		
		64-QAM	-25.96	12.94	11.53	3.06	H		0.138	21.41		
		256-QAM	-28.20	10.70	11.53	3.06	H		0.083	19.17		
3537.50		PI/2 BPSK	-23.32	15.37	11.65	3.09	H		0.247	23.93	1	63
		QPSK	-23.42	15.27	11.65	3.09	H		0.242	23.83		
		16-QAM	-24.58	14.11	11.65	3.09	H		0.185	22.67		
		64-QAM	-25.88	12.81	11.65	3.09	H		0.137	21.37		
		256-QAM	-28.06	10.63	11.65	3.09	H		0.083	19.19		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3465.00		PI/2 BPSK	-23.68	15.00	11.42	3.03	H	< 1.00	0.218	23.39	1	1
		QPSK	-23.69	14.99	11.42	3.03	H		0.218	23.38		
		16-QAM	-24.78	13.90	11.42	3.03	H		0.169	22.29		
		64-QAM	-26.12	12.56	11.42	3.03	H		0.124	20.95		
		256-QAM	-28.43	10.25	11.42	3.03	H		0.073	18.64		
3500.01	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-23.70	15.20	11.53	3.06	H	< 1.00	0.233	23.67	1	76
		QPSK	-23.77	15.13	11.53	3.06	H		0.229	23.60		
		16-QAM	-24.80	14.10	11.53	3.06	H		0.181	22.57		
		64-QAM	-26.18	12.72	11.53	3.06	H		0.132	21.19		
		256-QAM	-28.45	10.45	11.53	3.06	H		0.078	18.92		
3534.99		PI/2 BPSK	-23.51	15.19	11.64	3.09	H	< 1.00	0.237	23.74	1	76
		QPSK	-23.58	15.12	11.64	3.09	H		0.233	23.67		
		16-QAM	-24.55	14.15	11.64	3.09	H		0.186	22.70		
		64-QAM	-26.02	12.68	11.64	3.09	H		0.133	21.23		
		256-QAM	-28.29	10.41	11.64	3.09	H		0.079	18.96		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3470.01		PI/2 BPSK	-23.66	15.06	11.43	3.04	H	< 1.00	0.221	23.45	1	1
		QPSK	-23.68	15.04	11.43	3.04	H		0.220	23.43		
		16-QAM	-24.76	13.96	11.43	3.04	H		0.172	22.35		
		64-QAM	-26.11	12.61	11.43	3.04	H		0.126	21.00		
		256-QAM	-28.34	10.38	11.43	3.04	H		0.075	18.77		
3500.01	Sub6 n77(78)/ 40 MHz [30 kHz]	PI/2 BPSK	-23.70	15.20	11.53	3.06	H	< 1.00	0.233	23.67	1	104
		QPSK	-23.72	15.18	11.53	3.06	H		0.232	23.65		
		16-QAM	-24.79	14.11	11.53	3.06	H		0.181	22.58		
		64-QAM	-26.17	12.73	11.53	3.06	H		0.132	21.20		
		256-QAM	-28.43	10.47	11.53	3.06	H		0.078	18.94		
3529.98		PI/2 BPSK	-23.40	15.32	11.62	3.09	H	< 1.00	0.243	23.85	1	104
		QPSK	-23.50	15.22	11.62	3.09	H		0.237	23.75		
		16-QAM	-24.51	14.21	11.62	3.09	H		0.188	22.74		
		64-QAM	-25.85	12.87	11.62	3.09	H		0.138	21.40		
		256-QAM	-28.15	10.57	11.62	3.09	H		0.081	19.10		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3475.02		PI/2 BPSK	-23.90	14.92	11.45	3.05	H	< 1.00	0.215	23.32	1	1
		QPSK	-23.92	14.90	11.45	3.05	H		0.214	23.30		
		16-QAM	-24.98	13.84	11.45	3.05	H		0.167	22.24		
		64-QAM	-26.32	12.50	11.45	3.05	H		0.123	20.90		
		256-QAM	-28.65	10.17	11.45	3.05	H		0.072	18.57		
3500.01	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-23.96	14.94	11.53	3.06	H	< 1.00	0.219	23.41	1	1
		QPSK	-23.98	14.92	11.53	3.06	H		0.218	23.39		
		16-QAM	-25.06	13.84	11.53	3.06	H		0.170	22.31		
		64-QAM	-26.37	12.53	11.53	3.06	H		0.126	21.00		
		256-QAM	-28.65	10.25	11.53	3.06	H		0.074	18.72		
3525.00		PI/2 BPSK	-23.96	14.81	11.60	3.08	H	< 1.00	0.215	23.33	1	131
		QPSK	-23.98	14.79	11.60	3.08	H		0.214	23.31		
		16-QAM	-25.15	13.62	11.60	3.08	H		0.164	22.14		
		64-QAM	-26.40	12.37	11.60	3.08	H		0.123	20.89		
		256-QAM	-28.74	10.03	11.60	3.08	H		0.072	18.55		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3480.00		PI/2 BPSK	-23.98	14.93	11.46	3.05	H	< 1.00	0.216	23.34	1	1
		QPSK	-23.99	14.92	11.46	3.05	H		0.215	23.33		
		16-QAM	-25.08	13.83	11.46	3.05	H		0.167	22.24		
		64-QAM	-26.36	12.55	11.46	3.05	H		0.125	20.96		
		256-QAM	-28.60	10.31	11.46	3.05	H		0.074	18.72		
3500.01	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-23.96	14.94	11.53	3.06	H	< 1.00	0.219	23.41	1	1
		QPSK	-24.01	14.89	11.53	3.06	H		0.217	23.36		
		16-QAM	-25.07	13.83	11.53	3.06	H		0.170	22.30		
		64-QAM	-26.38	12.52	11.53	3.06	H		0.126	20.99		
		256-QAM	-28.69	10.21	11.53	3.06	H		0.074	18.68		
3519.99		PI/2 BPSK	-23.83	14.99	11.59	3.08	H	< 1.00	0.224	23.50	1	160
		QPSK	-23.88	14.94	11.59	3.08	H		0.221	23.45		
		16-QAM	-24.94	13.88	11.59	3.08	H		0.173	22.39		
		64-QAM	-26.26	12.56	11.59	3.08	H		0.128	21.07		
		256-QAM	-28.53	10.29	11.59	3.08	H		0.076	18.80		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3485.01	Sub6 n77(78)/ 70 MHz [30 kHz]	PI/2 BPSK	-23.98	14.88	11.48	3.06	H	< 1.00	0.214	23.30	1	1
		QPSK	-24.03	14.83	11.48	3.06	H		0.211	23.25		
		16-QAM	-25.10	13.76	11.48	3.06	H		0.165	22.18		
		64-QAM	-26.48	12.38	11.48	3.06	H		0.120	20.80		
		256-QAM	-28.74	10.12	11.48	3.06	H		0.071	18.54		
3500.01		PI/2 BPSK	-23.90	15.00	11.53	3.06	H		0.222	23.47	1	1
		QPSK	-23.94	14.96	11.53	3.06	H		0.220	23.43		
		16-QAM	-24.98	13.92	11.53	3.06	H		0.173	22.39		
		64-QAM	-26.38	12.52	11.53	3.06	H		0.126	20.99		
		256-QAM	-28.69	10.21	11.53	3.06	H		0.074	18.68		
3514.98		PI/2 BPSK	-23.89	14.99	11.57	3.07	H		0.223	23.49	1	187
		QPSK	-23.95	14.93	11.57	3.07	H		0.220	23.43		
		16-QAM	-25.00	13.88	11.57	3.07	H		0.173	22.38		
		64-QAM	-26.36	12.52	11.57	3.07	H		0.126	21.02		
		256-QAM	-28.65	10.23	11.57	3.07	H		0.075	18.73		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3490.02		PI/2 BPSK	-24.03	14.78	11.49	3.06	H	< 1.00	0.209	23.21	1	1
		QPSK	-24.06	14.75	11.49	3.06	H		0.208	23.18		
		16-QAM	-25.16	13.65	11.49	3.06	H		0.161	22.08		
		64-QAM	-26.49	12.32	11.49	3.06	H		0.119	20.75		
		256-QAM	-28.75	10.06	11.49	3.06	H		0.071	18.49		
3500.01	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-23.92	14.98	11.53	3.06	H	< 1.00	0.221	23.45	1	1
		QPSK	-23.99	14.91	11.53	3.06	H		0.218	23.38		
		16-QAM	-24.99	13.91	11.53	3.06	H		0.173	22.38		
		64-QAM	-26.39	12.51	11.53	3.06	H		0.125	20.98		
		256-QAM	-28.63	10.27	11.53	3.06	H		0.075	18.74		
3510.00		PI/2 BPSK	-23.89	15.04	11.56	3.07	H	< 1.00	0.225	23.53	1	215
		QPSK	-23.94	14.99	11.56	3.07	H		0.223	23.48		
		16-QAM	-24.97	13.96	11.56	3.07	H		0.176	22.45		
		64-QAM	-26.34	12.59	11.56	3.07	H		0.128	21.08		
		256-QAM	-28.61	10.32	11.56	3.07	H		0.076	18.81		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3495.00		PI/2 BPSK	-24.13	14.72	11.51	3.06	H	< 1.00	0.207	23.17	1	243
		QPSK	-24.14	14.71	11.51	3.06	H		0.207	23.16		
		16-QAM	-25.13	13.72	11.51	3.06	H		0.165	22.17		
		64-QAM	-26.54	12.31	11.51	3.06	H		0.119	20.76		
		256-QAM	-28.88	9.97	11.51	3.06	H		0.070	18.42		
3500.01	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-24.00	14.90	11.53	3.06	H	< 1.00	0.217	23.37	1	1
		QPSK	-24.12	14.78	11.53	3.06	H		0.211	23.25		
		16-QAM	-25.16	13.74	11.53	3.06	H		0.166	22.21		
		64-QAM	-26.49	12.41	11.53	3.06	H		0.122	20.88		
		256-QAM	-28.77	10.13	11.53	3.06	H		0.072	18.60		
3504.99		PI/2 BPSK	-23.81	15.11	11.54	3.07	H	< 1.00	0.228	23.58	1	243
		QPSK	-24.00	14.92	11.54	3.07	H		0.218	23.39		
		16-QAM	-24.86	14.06	11.54	3.07	H		0.179	22.53		
		64-QAM	-26.27	12.65	11.54	3.07	H		0.129	21.12		
		256-QAM	-28.59	10.33	11.54	3.07	H		0.076	18.80		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3500.01	Sub6 n77(78)/ 100 MHz [30 kHz]	PI/2 BPSK	-23.77	15.13	11.53	3.06	H	< 1.00	0.229	23.60	1	271
		QPSK	-23.84	15.06	11.53	3.06	H		0.225	23.53		
		16-QAM	-24.91	13.99	11.53	3.06	H		0.176	22.46		
		64-QAM	-26.23	12.67	11.53	3.06	H		0.130	21.14		
		256-QAM	-28.49	10.41	11.53	3.06	H		0.077	18.88		

8.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>NR n77(78)</u>
Bandwidth:	<u>25 MHz</u>
Modulation:	<u>PI/2 BPSK</u>
Distance:	<u>1 meters</u>
SCS:	<u>30 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
630836 (3462.50)	6 925.00	-62.72	12.28	-56.47	4.54	V	-48.73	-13.00	1	63
		-62.83		-56.58		H	-48.84	-13.00		
	10 387.50	-59.38	10.98	-48.76	5.62	V	-43.40	-13.00		
		-57.85		-47.23		H	-41.87	-13.00		
	13 850.00	-58.81	12.26	-47.99	6.60	V	-42.33	-13.00		
		-59.27		-48.45		H	-42.79	-13.00		
633334 (3500.01)	7 000.02	-62.91	11.92	-56.24	4.61	V	-48.93	-13.00	1	63
		-62.26		-55.59		H	-48.28	-13.00		
	10 500.03	-60.02	10.88	-48.79	5.65	V	-43.56	-13.00		
		-58.62		-47.39		H	-42.16	-13.00		
	14 000.04	-58.78	11.88	-49.18	6.63	V	-43.93	-13.00		
		-58.82		-49.22		H	-43.97	-13.00		
635834 (3537.50)	7 075.00	-61.55	11.56	-54.30	4.58	V	-47.32	-13.00	1	63
		-61.93		-54.68		H	-47.70	-13.00		
	10 612.50	-59.89	10.98	-48.17	5.65	V	-42.84	-13.00		
		-58.39		-46.67		H	-41.34	-13.00		
	14 150.00	-58.15	11.75	-49.37	6.68	V	-44.30	-13.00		
		-58.41		-49.63		H	-44.56	-13.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)	Limit (dB)
Sub6 n77(78)	10 MHz	3500.01	PI/2 BPSK	Full RB	0	3.80	13.00
			QPSK			4.91	
			16-QAM			5.75	
			64-QAM			6.14	
			256-QAM			6.16	
	15 MHz		PI/2 BPSK			3.94	
			QPSK			5.14	
			16-QAM			5.87	
			64-QAM			6.18	
			256-QAM			6.55	
	20 MHz		PI/2 BPSK			4.37	
			QPSK			4.97	
			16-QAM			5.57	
			64-QAM			5.95	
			256-QAM			6.45	
	25 MHz		PI/2 BPSK			4.36	
			QPSK			4.93	
			16-QAM			5.77	
			64-QAM			6.06	
			256-QAM			6.28	
	30 MHz		PI/2 BPSK			4.03	
			QPSK			4.92	
			16-QAM			5.66	
			64-QAM			5.97	
			256-QAM			6.43	
	40 MHz		PI/2 BPSK			4.20	
			QPSK			4.92	
			16-QAM			5.69	
			64-QAM			6.04	
			256-QAM			6.50	
	50 MHz		PI/2 BPSK			3.71	
			QPSK			4.91	
			16-QAM			5.70	
			64-QAM			6.00	
			256-QAM			6.43	

	60 MHz	PI/2 BPSK			4.21	
		QPSK			4.88	
		16-QAM			5.76	
		64-QAM			6.07	
		256-QAM			6.41	
	70 MHz	PI/2 BPSK			4.43	
		QPSK			5.37	
		16-QAM			6.03	
		64-QAM			6.19	
		256-QAM			6.46	
	80 MHz	PI/2 BPSK			3.87	
		QPSK			4.93	
		16-QAM			5.78	
		64-QAM			6.19	
		256-QAM			6.48	
	90 MHz	PI/2 BPSK			3.92	
		QPSK			5.03	
		16-QAM			5.86	
		64-QAM			6.14	
		256-QAM			6.51	
	100 MHz	PI/2 BPSK			3.87	
		QPSK			5.01	
		16-QAM			5.88	
		64-QAM			6.12	
		256-QAM			6.51	

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n77(78)	10 MHz	3500.01	PI/2 BPSK	Full RB	0	8.6559
			QPSK			8.6556
			16-QAM			8.7009
			64-QAM			8.6562
			256-QAM			8.6709
	15 MHz		PI/2 BPSK			12.904
			QPSK			12.912
			16-QAM			13.023
			64-QAM			12.945
			256-QAM			12.939
	20 MHz		PI/2 BPSK			17.905
			QPSK			17.987
			16-QAM			17.963
			64-QAM			17.879
			256-QAM			17.951
	25 MHz		PI/2 BPSK			22.966
			QPSK			22.935
			16-QAM			23.126
			64-QAM			22.943
			256-QAM			22.938
	30 MHz		PI/2 BPSK			26.945
			QPSK			26.940
			16-QAM			26.909
			64-QAM			26.933
			256-QAM			26.931
	40 MHz		PI/2 BPSK			35.847
			QPSK			35.897
			16-QAM			35.783
			64-QAM			35.838
			256-QAM			35.921
	50 MHz		PI/2 BPSK			45.952
			QPSK			45.734
			16-QAM			45.715
			64-QAM			45.777
			256-QAM			45.832

60 MHz			PI/2 BPSK			58.091
			QPSK			57.864
			16-QAM			58.121
			64-QAM			58.016
			256-QAM			57.951
70 MHz			PI/2 BPSK			64.610
			QPSK			64.611
			16-QAM			64.498
			64-QAM			64.534
			256-QAM			64.793
80 MHz			PI/2 BPSK			77.263
			QPSK			77.305
			16-QAM			77.314
			64-QAM			77.292
			256-QAM			77.313
90 MHz			PI/2 BPSK			86.957
			QPSK			87.117
			16-QAM			87.112
			64-QAM			87.139
			256-QAM			86.958
100 MHz			PI/2 BPSK			96.497
			QPSK			96.525
			16-QAM			96.678
			64-QAM			96.738
			256-QAM			96.411

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)
Sub6 n77(78)	10	3455.010	7.4277	29.116	-63.124	-34.008	-13.00
		3500.010	9.9502	29.116	-63.753	-34.637	
		3544.980	5.1745	29.116	-62.880	-33.764	
	15	3457.500	9.1426	29.116	-63.720	-34.604	
		3500.010	8.5843	29.116	-62.160	-33.044	
		3542.490	9.7109	29.116	-63.107	-33.991	
	20	3460.020	5.0250	29.116	-63.668	-34.552	
		3500.010	9.1326	29.116	-63.470	-34.354	
		3540.000	9.0529	29.116	-63.154	-34.038	
	25	3462.510	4.2274	28.533	-55.179	-26.646	
		3500.010	4.2174	28.533	-55.790	-27.257	
		3537.480	4.2174	28.533	-55.630	-27.097	
	30	3465.000	4.2174	28.533	-55.095	-26.562	
		3500.010	4.2174	28.533	-55.210	-26.677	
		3534.990	4.2274	28.533	-55.222	-26.689	
	40	3470.010	4.2274	28.533	-55.547	-27.014	
		3500.010	4.2174	28.533	-55.153	-26.620	
		3529.980	4.2174	28.533	-55.075	-26.542	
	50	3475.020	4.2174	28.533	-56.133	-27.600	
		3500.010	4.2174	28.533	-55.522	-26.989	
		3525.000	4.2174	28.533	-55.320	-26.787	
	60	3480.000	4.2174	28.533	-55.364	-26.831	
		3500.010	4.2174	28.533	-55.506	-26.973	
		3519.990	4.2174	28.533	-55.544	-27.011	
	70	3485.010	4.2174	28.533	-55.506	-26.973	
		3500.010	4.2174	28.533	-55.150	-26.617	
		3514.980	4.2174	28.533	-55.474	-26.941	
	80	3490.020	4.2174	28.533	-56.128	-27.595	
		3500.010	4.2174	28.533	-55.898	-27.365	
		3510.000	4.2174	28.533	-55.482	-26.949	
	90	3495.000	4.2174	28.533	-55.061	-26.528	
		3500.010	4.2174	28.533	-56.156	-27.623	
		3504.990	4.2174	28.533	-56.196	-27.663	
	100	3500.010	4.2174	28.533	-55.290	-26.757	

Note:

1. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)

- Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

2. Factor(dB)

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.012
1 – 5	28.533
5 – 10	29.116
10 – 15	30.025
15 – 20	31.052
Above 20	31.613

8.6 BAND EDGE

1. Plots of the EUT's Band Edge are shown Section 10.4.

2. Duty Cycle factor already applied on the factor.

- Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter

- Result(dBm) = Reading + Factor

- Duty Cycle Factor(dB) = 6.990

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ BandWidth: 10 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3455.010	100 %	+20(Ref)	3455 009 999	0.0	0.000 000	0.000
	100 %	-30	3455 009 999	-0.5	0.000 000	0.000
	100 %	-20	3455 010 005	5.5	0.000 000	0.002
	100 %	-10	3455 009 992	-7.7	0.000 000	-0.002
	100 %	0	3455 010 004	4.9	0.000 000	0.001
	100 %	+10	3455 009 994	-4.9	0.000 000	-0.001
	100 %	+30	3455 010 001	2.0	0.000 000	0.001
	100 %	+40	3455 009 992	-7.2	0.000 000	-0.002
	100 %	+50	3455 009 993	-6.9	0.000 000	-0.002
	Batt. Endpoint	+20	3455 009 995	-4.6	0.000 000	-0.001
3544.980	100 %	+20(Ref)	3544 979 999	0.0	0.000 000	0.000
	100 %	-30	3544 979 989	-9.5	0.000 000	-0.003
	100 %	-20	3544 979 994	-4.6	0.000 000	-0.001
	100 %	-10	3544 979 995	-3.1	0.000 000	-0.001
	100 %	0	3544 979 998	-0.2	0.000 000	0.000
	100 %	+10	3544 979 996	-3.0	0.000 000	-0.001
	100 %	+30	3544 979 996	-2.8	0.000 000	-0.001
	100 %	+40	3544 979 995	-3.5	0.000 000	-0.001
	100 %	+50	3544 979 999	0.0	0.000 000	0.000
	Batt. Endpoint	+20	3544 979 999	0.9	0.000 000	0.000

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3457.500	100 %	+20(Ref)	3457 499 998	0.0	0.000 000	0.000
	100 %	-30	3457 499 987	-11.6	0.000 000	-0.003
	100 %	-20	3457 499 983	-15.4	0.000 000	-0.004
	100 %	-10	3457 499 991	-7.1	0.000 000	-0.002
	100 %	0	3457 499 992	-6.2	0.000 000	-0.002
	100 %	+10	3457 499 986	-12.3	0.000 000	-0.004
	100 %	+30	3457 499 995	-2.9	0.000 000	-0.001
	100 %	+40	3457 499 992	-6.8	0.000 000	-0.002
	100 %	+50	3457 499 990	-7.9	0.000 000	-0.002
	Batt. Endpoint	+20	3457 499 996	-2.4	0.000 000	-0.001
3542.490	100 %	+20(Ref)	3542 489 985	0.0	0.000 000	0.000
	100 %	-30	3542 489 987	2.4	0.000 000	0.001
	100 %	-20	3542 489 972	-13.2	0.000 000	-0.004
	100 %	-10	3542 489 974	-11.3	0.000 000	-0.003
	100 %	0	3542 489 978	-6.5	0.000 000	-0.002
	100 %	+10	3542 489 972	-12.6	0.000 000	-0.004
	100 %	+30	3542 489 971	-14.0	0.000 000	-0.004
	100 %	+40	3542 489 980	-4.7	0.000 000	-0.001
	100 %	+50	3542 489 976	-8.9	0.000 000	-0.003
	Batt. Endpoint	+20	3542 489 973	-11.6	0.000 000	-0.003

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3460.020	100 %	+20(Ref)	3460 019 998	0.0	0.000 000	0.000
	100 %	-30	3460 019 995	-3.1	0.000 000	-0.001
	100 %	-20	3460 019 994	-3.4	0.000 000	-0.001
	100 %	-10	3460 019 997	-1.3	0.000 000	0.000
	100 %	0	3460 020 001	3.3	0.000 000	0.001
	100 %	+10	3460 019 998	0.1	0.000 000	0.000
	100 %	+30	3460 019 999	1.4	0.000 000	0.000
	100 %	+40	3460 020 001	3.0	0.000 000	0.001
	100 %	+50	3460 019 991	-6.4	0.000 000	-0.002
	Batt. Endpoint	+20	3460 020 001	2.7	0.000 000	0.001
3540.000	100 %	+20(Ref)	3539 999 994	0.0	0.000 000	0.000
	100 %	-30	3539 999 996	2.0	0.000 000	0.001
	100 %	-20	3539 999 994	0.1	0.000 000	0.000
	100 %	-10	3539 999 993	-1.3	0.000 000	0.000
	100 %	0	3539 999 991	-3.2	0.000 000	-0.001
	100 %	+10	3539 999 993	-0.9	0.000 000	0.000
	100 %	+30	3539 999 991	-3.2	0.000 000	-0.001
	100 %	+40	3539 999 992	-2.6	0.000 000	-0.001
	100 %	+50	3539 999 986	-7.8	0.000 000	-0.002
	Batt. Endpoint	+20	3539 999 993	-1.5	0.000 000	0.000

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3462.510	100 %	+20(Ref)	3462 509 998	0.0	0.000 000	0.000
	100 %	-30	3462 509 995	-3.2	0.000 000	-0.001
	100 %	-20	3462 509 996	-2.2	0.000 000	-0.001
	100 %	-10	3462 509 991	-6.7	0.000 000	-0.002
	100 %	0	3462 509 993	-4.8	0.000 000	-0.001
	100 %	+10	3462 509 997	-0.7	0.000 000	0.000
	100 %	+30	3462 510 000	1.5	0.000 000	0.000
	100 %	+40	3462 509 998	0.0	0.000 000	0.000
	100 %	+50	3462 510 001	3.2	0.000 000	0.001
	Batt. Endpoint	+20	3462 509 996	-2.1	0.000 000	-0.001
3537.480	100 %	+20(Ref)	3537 479 999	0.0	0.000 000	0.000
	100 %	-30	3537 479 998	-1.4	0.000 000	0.000
	100 %	-20	3537 479 997	-2.7	0.000 000	-0.001
	100 %	-10	3537 479 995	-4.0	0.000 000	-0.001
	100 %	0	3537 479 999	-0.7	0.000 000	0.000
	100 %	+10	3537 480 003	3.2	0.000 000	0.001
	100 %	+30	3537 479 996	-3.2	0.000 000	-0.001
	100 %	+40	3537 479 997	-2.8	0.000 000	-0.001
	100 %	+50	3537 479 999	-0.7	0.000 000	0.000
	Batt. Endpoint	+20	3537 479 995	-4.2	0.000 000	-0.001

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3465.000	100 %	+20(Ref)	3464 999 998	0.0	0.000 000	0.000
	100 %	-30	3464 999 995	-3.5	0.000 000	-0.001
	100 %	-20	3464 999 994	-3.7	0.000 000	-0.001
	100 %	-10	3464 999 991	-6.9	0.000 000	-0.002
	100 %	0	3464 999 999	0.6	0.000 000	0.000
	100 %	+10	3464 999 991	-6.6	0.000 000	-0.002
	100 %	+30	3464 999 992	-5.7	0.000 000	-0.002
	100 %	+40	3464 999 993	-4.8	0.000 000	-0.001
	100 %	+50	3464 999 997	-1.4	0.000 000	0.000
	Batt. Endpoint	+20	3464 999 995	-3.0	0.000 000	-0.001
3534.990	100 %	+20(Ref)	3534 989 994	0.0	0.000 000	0.000
	100 %	-30	3534 989 992	-2.3	0.000 000	-0.001
	100 %	-20	3534 989 995	0.6	0.000 000	0.000
	100 %	-10	3534 989 988	-5.6	0.000 000	-0.002
	100 %	0	3534 989 992	-2.2	0.000 000	-0.001
	100 %	+10	3534 989 991	-3.2	0.000 000	-0.001
	100 %	+30	3534 989 991	-2.8	0.000 000	-0.001
	100 %	+40	3534 989 991	-2.8	0.000 000	-0.001
	100 %	+50	3534 989 991	-3.4	0.000 000	-0.001
	Batt. Endpoint	+20	3534 989 993	-1.0	0.000 000	0.000

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3470.010	100 %	+20(Ref)	3470 010 000	0.0	0.000 000	0.000
	100 %	-30	3470 009 997	-2.8	0.000 000	-0.001
	100 %	-20	3470 010 001	0.9	0.000 000	0.000
	100 %	-10	3470 009 997	-3.4	0.000 000	-0.001
	100 %	0	3470 009 999	-1.3	0.000 000	0.000
	100 %	+10	3470 009 996	-4.0	0.000 000	-0.001
	100 %	+30	3470 009 995	-4.6	0.000 000	-0.001
	100 %	+40	3470 009 999	-1.5	0.000 000	0.000
	100 %	+50	3470 010 000	0.4	0.000 000	0.000
	Batt. Endpoint	+20	3470 010 001	0.9	0.000 000	0.000
3529.980	100 %	+20(Ref)	3529 979 996	0.0	0.000 000	0.000
	100 %	-30	3529 979 989	-7.0	0.000 000	-0.002
	100 %	-20	3529 979 992	-4.3	0.000 000	-0.001
	100 %	-10	3529 979 991	-5.5	0.000 000	-0.002
	100 %	0	3529 979 991	-4.9	0.000 000	-0.001
	100 %	+10	3529 979 995	-1.5	0.000 000	0.000
	100 %	+30	3529 979 993	-3.1	0.000 000	-0.001
	100 %	+40	3529 979 990	-6.2	0.000 000	-0.002
	100 %	+50	3529 979 989	-6.7	0.000 000	-0.002
	Batt. Endpoint	+20	3529 979 993	-3.5	0.000 000	-0.001

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3475.020	100 %	+20(Ref)	3475 020 005	0.0	0.000 000	0.000
	100 %	-30	3475 020 008	2.6	0.000 000	0.001
	100 %	-20	3475 020 006	1.5	0.000 000	0.000
	100 %	-10	3475 020 006	0.6	0.000 000	0.000
	100 %	0	3475 020 003	-2.1	0.000 000	-0.001
	100 %	+10	3475 020 008	3.4	0.000 000	0.001
	100 %	+30	3475 020 010	5.1	0.000 000	0.001
	100 %	+40	3475 020 004	-0.8	0.000 000	0.000
	100 %	+50	3475 020 004	-1.3	0.000 000	0.000
	Batt. Endpoint	+20	3475 020 007	1.8	0.000 000	0.001
3525.000	100 %	+20(Ref)	352 499 999	0.0	0.000 000	0.000
	100 %	-30	352 499 996	-3.2	-0.000 001	-0.009
	100 %	-20	352 499 999	-0.2	0.000 000	-0.001
	100 %	-10	352 500 000	1.2	0.000 000	0.003
	100 %	0	352 500 000	0.5	0.000 000	0.001
	100 %	+10	352 499 995	-3.8	-0.000 001	-0.011
	100 %	+30	352 499 997	-2.2	-0.000 001	-0.006
	100 %	+40	352 499 995	-4.1	-0.000 001	-0.012
	100 %	+50	352 499 999	-0.6	0.000 000	-0.002
	Batt. Endpoint	+20	352 499 997	-2.0	-0.000 001	-0.006

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3480.000	100 %	+20(Ref)	3479 999 998	0.0	0.000 000	0.000
	100 %	-30	3479 999 995	-3.7	0.000 000	-0.001
	100 %	-20	3479 999 995	-3.7	0.000 000	-0.001
	100 %	-10	3479 999 997	-1.0	0.000 000	0.000
	100 %	0	3479 999 998	-0.8	0.000 000	0.000
	100 %	+10	3479 999 997	-0.9	0.000 000	0.000
	100 %	+30	3479 999 995	-3.4	0.000 000	-0.001
	100 %	+40	3479 999 994	-3.9	0.000 000	-0.001
	100 %	+50	3479 999 994	-4.3	0.000 000	-0.001
	Batt. Endpoint	+20	3479 999 993	-5.2	0.000 000	-0.002
3519.990	100 %	+20(Ref)	3519 990 001	0.0	0.000 000	0.000
	100 %	-30	3519 989 997	-4.4	0.000 000	-0.001
	100 %	-20	3519 990 001	-0.3	0.000 000	0.000
	100 %	-10	3519 989 998	-3.0	0.000 000	-0.001
	100 %	0	3519 990 000	-1.8	0.000 000	-0.001
	100 %	+10	3519 989 997	-4.3	0.000 000	-0.001
	100 %	+30	3519 990 002	0.2	0.000 000	0.000
	100 %	+40	3519 990 004	2.5	0.000 000	0.001
	100 %	+50	3519 990 000	-1.0	0.000 000	0.000
	Batt. Endpoint	+20	3519 989 999	-2.5	0.000 000	-0.001

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3485.010	100 %	+20(Ref)	3485 010 000	0.0	0.000 000	0.000
	100 %	-30	3485 009 996	-4.3	0.000 000	-0.001
	100 %	-20	3485 010 007	7.0	0.000 000	0.002
	100 %	-10	3485 010 002	1.3	0.000 000	0.000
	100 %	0	3485 009 998	-2.6	0.000 000	-0.001
	100 %	+10	3485 010 000	-0.6	0.000 000	0.000
	100 %	+30	3485 009 998	-2.2	0.000 000	-0.001
	100 %	+40	3485 009 999	-1.6	0.000 000	0.000
	100 %	+50	3485 010 004	3.3	0.000 000	0.001
	Batt. Endpoint	+20	3485 010 000	-0.7	0.000 000	0.000
3514.980	100 %	+20(Ref)	3514 979 993	0.0	0.000 000	0.000
	100 %	-30	3514 979 985	-8.3	0.000 000	-0.002
	100 %	-20	3514 979 988	-4.6	0.000 000	-0.001
	100 %	-10	3514 979 989	-3.6	0.000 000	-0.001
	100 %	0	3514 979 990	-3.4	0.000 000	-0.001
	100 %	+10	3514 979 986	-7.1	0.000 000	-0.002
	100 %	+30	3514 979 985	-7.6	0.000 000	-0.002
	100 %	+40	3514 979 989	-3.6	0.000 000	-0.001
	100 %	+50	3514 979 988	-4.7	0.000 000	-0.001
	Batt. Endpoint	+20	3514 979 991	-1.6	0.000 000	0.000

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3490.020	100 %	+20(Ref)	3490 020 002	0.0	0.000 000	0.000
	100 %	-30	3490 020 005	3.0	0.000 000	0.001
	100 %	-20	3490 019 998	-4.3	0.000 000	-0.001
	100 %	-10	3490 020 002	-0.5	0.000 000	0.000
	100 %	0	3490 020 002	-0.2	0.000 000	0.000
	100 %	+10	3490 019 999	-3.3	0.000 000	-0.001
	100 %	+30	3490 020 000	-2.4	0.000 000	-0.001
	100 %	+40	3490 019 998	-4.1	0.000 000	-0.001
	100 %	+50	3490 020 005	2.9	0.000 000	0.001
	Batt. Endpoint	+20	3490 020 001	-1.1	0.000 000	0.000
3510.000	100 %	+20(Ref)	3509 999 995	0.0	0.000 000	0.000
	100 %	-30	3509 999 993	-2.1	0.000 000	-0.001
	100 %	-20	3509 999 995	-0.2	0.000 000	0.000
	100 %	-10	3509 999 993	-2.5	0.000 000	-0.001
	100 %	0	3509 999 990	-4.8	0.000 000	-0.001
	100 %	+10	3509 999 992	-2.9	0.000 000	-0.001
	100 %	+30	3509 999 993	-2.1	0.000 000	-0.001
	100 %	+40	3509 999 994	-1.8	0.000 000	-0.001
	100 %	+50	3509 999 993	-2.6	0.000 000	-0.001
	Batt. Endpoint	+20	3509 999 992	-3.0	0.000 000	-0.001

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3495.000	100 %	+20(Ref)	3494 999 996	0.0	0.000 000	0.000
	100 %	-30	3494 999 993	-3.3	0.000 000	-0.001
	100 %	-20	3494 999 986	-10.2	0.000 000	-0.003
	100 %	-10	3494 999 995	-1.0	0.000 000	0.000
	100 %	0	3494 999 993	-3.0	0.000 000	-0.001
	100 %	+10	3494 999 994	-1.5	0.000 000	0.000
	100 %	+30	3494 999 992	-4.3	0.000 000	-0.001
	100 %	+40	3494 999 991	-5.3	0.000 000	-0.002
	100 %	+50	3494 999 991	-5.0	0.000 000	-0.001
	Batt. Endpoint	+20	3494 999 991	-4.5	0.000 000	-0.001
3504.990	100 %	+20(Ref)	3504 989 997	0.0	0.000 000	0.000
	100 %	-30	3504 989 995	-1.7	0.000 000	0.000
	100 %	-20	3504 989 997	-0.6	0.000 000	0.000
	100 %	-10	3504 989 990	-7.7	0.000 000	-0.002
	100 %	0	3504 989 996	-1.3	0.000 000	0.000
	100 %	+10	3504 989 997	-0.7	0.000 000	0.000
	100 %	+30	3504 989 992	-4.8	0.000 000	-0.001
	100 %	+40	3504 989 990	-7.4	0.000 000	-0.002
	100 %	+50	3504 989 997	-0.1	0.000 000	0.000
	Batt. Endpoint	+20	3504 989 996	-1.7	0.000 000	0.000

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3500.010	100 %	+20(Ref)	3500 009 999	0.0	0.000 000	0.000
	100 %	-30	3500 010 003	4.0	0.000 000	0.001
	100 %	-20	3500 010 000	1.2	0.000 000	0.000
	100 %	-10	3500 009 993	-5.4	0.000 000	-0.002
	100 %	0	3500 010 001	2.0	0.000 000	0.001
	100 %	+10	3500 009 998	-0.9	0.000 000	0.000
	100 %	+30	3500 010 000	1.3	0.000 000	0.000
	100 %	+40	3500 009 999	0.7	0.000 000	0.000
	100 %	+50	3500 010 000	0.9	0.000 000	0.000
	Batt. Endpoint	+20	3500 009 997	-2.0	0.000 000	-0.001

9. TEST DATA (3700 MHz - 3980 MHz)

9.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3705.00	Sub6 n77(78)/ 10 MHz [30 kHz]	PI/2 BPSK	-22.63	16.40	11.61	3.16	H	< 1.00	0.305	24.85	1	12
		QPSK	-22.83	16.20	11.61	3.16	H		0.292	24.65		
		16-QAM	-23.80	15.23	11.61	3.16	H		0.233	23.68		
		64-QAM	-25.14	13.89	11.61	3.16	H		0.171	22.34		
		256-QAM	-27.47	11.56	11.61	3.16	H		0.100	20.01		
3840.00		PI/2 BPSK	-22.04	18.63	11.18	3.21	H		0.457	26.60	1	22
		QPSK	-22.15	18.52	11.18	3.21	H		0.446	26.49		
		16-QAM	-23.31	17.36	11.18	3.21	H		0.341	25.33		
		64-QAM	-24.67	16.00	11.18	3.21	H		0.249	23.97		
		256-QAM	-26.57	14.10	11.18	3.21	H		0.161	22.07		
3975.00		PI/2 BPSK	-23.20	17.93	11.30	3.28	H		0.394	25.95	1	1
		QPSK	-23.27	17.86	11.30	3.28	H		0.387	25.88		
		16-QAM	-24.34	16.79	11.30	3.28	H		0.303	24.81		
		64-QAM	-25.42	15.71	11.30	3.28	H		0.236	23.73		
		256-QAM	-28.20	12.93	11.30	3.28	H		0.124	20.95		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3707.51		PI/2 BPSK	-22.38	16.69	11.59	3.16	H	< 1.00	0.325	25.12	1	36
		QPSK	-22.49	16.58	11.59	3.16	H		0.317	25.01		
		16-QAM	-23.58	15.49	11.59	3.16	H		0.247	23.92		
		64-QAM	-24.87	14.20	11.59	3.16	H		0.183	22.63		
		256-QAM	-27.12	11.95	11.59	3.16	H		0.109	20.38		
3840.00	Sub6 n77(78)/ 15 MHz [30 kHz]	PI/2 BPSK	-21.70	18.97	11.18	3.21	H	< 1.00	0.494	26.94	1	1
		QPSK	-21.72	18.95	11.18	3.21	H		0.492	26.92		
		16-QAM	-22.85	17.82	11.18	3.21	H		0.379	25.79		
		64-QAM	-24.12	16.55	11.18	3.21	H		0.283	24.52		
		256-QAM	-26.35	14.32	11.18	3.21	H		0.169	22.29		
3972.48		PI/2 BPSK	-22.89	18.19	11.29	3.28	H	< 1.00	0.417	26.20	1	1
		QPSK	-23.06	18.02	11.29	3.28	H		0.401	26.03		
		16-QAM	-24.04	17.04	11.29	3.28	H		0.320	25.05		
		64-QAM	-25.37	15.71	11.29	3.28	H		0.236	23.72		
		256-QAM	-27.65	13.43	11.29	3.28	H		0.139	21.44		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3710.01		PI/2 BPSK	-22.19	16.88	11.59	3.16	H	< 1.00	0.340	25.31	1	49
		QPSK	-22.24	16.83	11.59	3.16	H		0.336	25.26		
		16-QAM	-23.31	15.76	11.59	3.16	H		0.262	24.19		
		64-QAM	-24.67	14.40	11.59	3.16	H		0.192	22.83		
		256-QAM	-26.94	12.13	11.59	3.16	H		0.114	20.56		
3840.00	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-21.65	19.02	11.18	3.21	H	< 1.00	0.500	26.99	1	1
		QPSK	-21.72	18.95	11.18	3.21	H		0.492	26.92		
		16-QAM	-22.76	17.91	11.18	3.21	H		0.387	25.88		
		64-QAM	-24.13	16.54	11.18	3.21	H		0.282	24.51		
		256-QAM	-26.42	14.25	11.18	3.21	H		0.167	22.22		
3969.99		PI/2 BPSK	-22.89	18.19	11.29	3.28	H	< 1.00	0.417	26.20	1	49
		QPSK	-23.56	17.52	11.29	3.28	H		0.357	25.53		
		16-QAM	-24.53	16.55	11.29	3.28	H		0.286	24.56		
		64-QAM	-25.74	15.34	11.29	3.28	H		0.216	23.35		
		256-QAM	-27.61	13.47	11.29	3.28	H		0.141	21.48		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3712.50	Sub6 n77(78)/ 25 MHz [30 kHz]	PI/2 BPSK	-21.85	17.24	11.57	3.17	H	< 1.00	0.366	25.64	1	63
		QPSK	-21.86	17.23	11.57	3.17	H		0.366	25.63		
		16-QAM	-22.98	16.11	11.57	3.17	H		0.282	24.51		
		64-QAM	-24.26	14.83	11.57	3.17	H		0.210	23.23		
		256-QAM	-26.55	12.54	11.57	3.17	H		0.124	20.94		
3840.00		PI/2 BPSK	-20.89	19.78	11.18	3.21	H		0.596	27.75	1	1
		QPSK	-20.96	19.71	11.18	3.21	H		0.586	27.68		
		16-QAM	-21.99	18.68	11.18	3.21	H		0.462	26.65		
		64-QAM	-23.39	17.28	11.18	3.21	H		0.335	25.25		
		256-QAM	-25.67	15.00	11.18	3.21	H		0.198	22.97		
3967.50		PI/2 BPSK	-22.47	18.61	11.29	3.28	H		0.459	26.62	1	1
		QPSK	-23.16	17.92	11.29	3.28	H		0.392	25.93		
		16-QAM	-24.16	16.92	11.29	3.28	H		0.311	24.93		
		64-QAM	-25.39	15.69	11.29	3.28	H		0.234	23.70		
		256-QAM	-27.24	13.84	11.29	3.28	H		0.153	21.85		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3715.02		PI/2 BPSK	-22.15	16.94	11.57	3.17	H	< 1.00	0.342	25.34	1	76
		QPSK	-22.23	16.86	11.57	3.17	H		0.336	25.26		
		16-QAM	-23.24	15.85	11.57	3.17	H		0.266	24.25		
		64-QAM	-24.62	14.47	11.57	3.17	H		0.194	22.87		
		256-QAM	-26.89	12.20	11.57	3.17	H		0.115	20.60		
3840.00	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-21.69	18.98	11.18	3.21	H	< 1.00	0.495	26.95	1	76
		QPSK	-21.71	18.96	11.18	3.21	H		0.493	26.93		
		16-QAM	-22.75	17.92	11.18	3.21	H		0.388	25.89		
		64-QAM	-24.14	16.53	11.18	3.21	H		0.282	24.50		
		256-QAM	-26.44	14.23	11.18	3.21	H		0.166	22.20		
3964.98		PI/2 BPSK	-22.80	18.32	11.27	3.28	H	< 1.00	0.428	26.31	1	1
		QPSK	-23.16	17.96	11.27	3.28	H		0.394	25.95		
		16-QAM	-24.22	16.90	11.27	3.28	H		0.308	24.89		
		64-QAM	-25.36	15.76	11.27	3.28	H		0.237	23.75		
		256-QAM	-27.50	13.62	11.27	3.28	H		0.145	21.61		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3720.00		PI/2 BPSK	-22.18	16.92	11.56	3.17	H	< 1.00	0.340	25.31	1	53
		QPSK	-22.21	16.89	11.56	3.17	H		0.337	25.28		
		16-QAM	-23.27	15.83	11.56	3.17	H		0.264	24.22		
		64-QAM	-24.58	14.52	11.56	3.17	H		0.195	22.91		
		256-QAM	-26.84	12.26	11.56	3.17	H		0.116	20.65		
3840.00	Sub6 n77(78)/ 40 MHz [30 kHz]	PI/2 BPSK	-21.51	19.16	11.18	3.21	H	< 1.00	0.516	27.13	1	1
		QPSK	-21.54	19.13	11.18	3.21	H		0.513	27.10		
		16-QAM	-22.61	18.06	11.18	3.21	H		0.401	26.03		
		64-QAM	-24.00	16.67	11.18	3.21	H		0.291	24.64		
		256-QAM	-26.24	14.43	11.18	3.21	H		0.174	22.40		
3960.00		PI/2 BPSK	-22.73	18.42	11.26	3.27	H	< 1.00	0.438	26.41	1	1
		QPSK	-23.22	17.93	11.26	3.27	H		0.391	25.92		
		16-QAM	-24.20	16.95	11.26	3.27	H		0.312	24.94		
		64-QAM	-25.43	15.72	11.26	3.27	H		0.235	23.71		
		256-QAM	-27.48	13.67	11.26	3.27	H		0.147	21.66		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3725.10		PI/2 BPSK	-22.34	16.78	11.54	3.17	H	< 1.00	0.327	25.15	1	66
		QPSK	-22.39	16.73	11.54	3.17	H		0.324	25.10		
		16-QAM	-23.49	15.63	11.54	3.17	H		0.251	24.00		
		64-QAM	-24.83	14.29	11.54	3.17	H		0.185	22.66		
		256-QAM	-27.12	12.00	11.54	3.17	H		0.109	20.37		
3840.00	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-21.90	18.77	11.18	3.21	H	< 1.00	0.472	26.74	1	1
		QPSK	-21.93	18.74	11.18	3.21	H		0.469	26.71		
		16-QAM	-23.02	17.65	11.18	3.21	H		0.365	25.62		
		64-QAM	-24.34	16.33	11.18	3.21	H		0.269	24.30		
		256-QAM	-26.59	14.08	11.18	3.21	H		0.160	22.05		
3954.99		PI/2 BPSK	-23.01	18.09	11.24	3.27	H	< 1.00	0.404	26.06	1	1
		QPSK	-23.22	17.88	11.24	3.27	H		0.385	25.85		
		16-QAM	-24.24	16.86	11.24	3.27	H		0.304	24.83		
		64-QAM	-25.50	15.60	11.24	3.27	H		0.228	23.57		
		256-QAM	-27.78	13.32	11.24	3.27	H		0.135	21.29		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3730.02		PI/2 BPSK	-22.55	16.59	11.52	3.18	H	< 1.00	0.311	24.93	1	82
		QPSK	-22.61	16.53	11.52	3.18	H		0.307	24.87		
		16-QAM	-23.71	15.43	11.52	3.18	H		0.238	23.77		
		64-QAM	-25.03	14.11	11.52	3.18	H		0.176	22.45		
		256-QAM	-27.32	11.82	11.52	3.18	H		0.104	20.16		
3840.00	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-21.82	18.85	11.18	3.21	H	< 1.00	0.481	26.82	1	1
		QPSK	-21.89	18.78	11.18	3.21	H		0.473	26.75		
		16-QAM	-22.92	17.75	11.18	3.21	H		0.373	25.72		
		64-QAM	-24.30	16.37	11.18	3.21	H		0.272	24.34		
		256-QAM	-26.54	14.13	11.18	3.21	H		0.162	22.10		
3949.98		PI/2 BPSK	-23.03	17.99	11.23	3.26	H	< 1.00	0.394	25.96	1	1
		QPSK	-23.04	17.98	11.23	3.26	H		0.394	25.95		
		16-QAM	-24.09	16.93	11.23	3.26	H		0.309	24.90		
		64-QAM	-25.47	15.55	11.23	3.26	H		0.225	23.52		
		256-QAM	-27.80	13.22	11.23	3.26	H		0.132	21.19		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3735.00	Sub6 n77(78)/ 70 MHz [30 kHz]	PI/2 BPSK	-22.48	16.78	11.51	3.18	H	< 1.00	0.324	25.11	1	187
		QPSK	-22.49	16.77	11.51	3.18	H		0.324	25.10		
		16-QAM	-23.60	15.66	11.51	3.18	H		0.251	23.99		
		64-QAM	-24.90	14.36	11.51	3.18	H		0.186	22.69		
		256-QAM	-27.15	12.11	11.51	3.18	H		0.111	20.44		
3840.00		PI/2 BPSK	-21.90	18.77	11.18	3.21	H		0.472	26.74	1	1
		QPSK	-21.93	18.74	11.18	3.21	H		0.469	26.71		
		16-QAM	-23.01	17.66	11.18	3.21	H		0.366	25.63		
		64-QAM	-24.37	16.30	11.18	3.21	H		0.267	24.27		
		256-QAM	-26.61	14.06	11.18	3.21	H		0.160	22.03		
3945.00		PI/2 BPSK	-22.83	18.19	11.21	3.26	H		0.411	26.14	1	1
		QPSK	-22.90	18.12	11.21	3.26	H		0.405	26.07		
		16-QAM	-23.96	17.06	11.21	3.26	H		0.317	25.01		
		64-QAM	-25.37	15.65	11.21	3.26	H		0.229	23.60		
		256-QAM	-27.64	13.38	11.21	3.26	H		0.136	21.33		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3740.01		PI/2 BPSK	-22.02	17.37	11.49	3.18	H	< 1.00	0.370	25.68	1	215
		QPSK	-22.08	17.31	11.49	3.18	H		0.365	25.62		
		16-QAM	-23.12	16.27	11.49	3.18	H		0.287	24.58		
		64-QAM	-24.46	14.93	11.49	3.18	H		0.211	23.24		
		256-QAM	-26.74	12.65	11.49	3.18	H		0.125	20.96		
3840.00	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-21.83	18.84	11.18	3.21	H	< 1.00	0.480	26.81	1	1
		QPSK	-21.89	18.78	11.18	3.21	H		0.473	26.75		
		16-QAM	-22.91	17.76	11.18	3.21	H		0.374	25.73		
		64-QAM	-24.31	16.36	11.18	3.21	H		0.271	24.33		
		256-QAM	-26.61	14.06	11.18	3.21	H		0.160	22.03		
3939.99		PI/2 BPSK	-22.62	18.37	11.20	3.25	H	< 1.00	0.429	26.32	1	1
		QPSK	-22.67	18.32	11.20	3.25	H		0.424	26.27		
		16-QAM	-23.78	17.21	11.20	3.25	H		0.328	25.16		
		64-QAM	-25.10	15.89	11.20	3.25	H		0.242	23.84		
		256-QAM	-27.38	13.61	11.20	3.25	H		0.143	21.56		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3745.02		PI/2 BPSK	-21.94	17.54	11.47	3.19	H	< 1.00	0.382	25.82	1	243
		QPSK	-21.95	17.53	11.47	3.19	H		0.381	25.81		
		16-QAM	-23.04	16.44	11.47	3.19	H		0.296	24.72		
		64-QAM	-24.37	15.11	11.47	3.19	H		0.218	23.39		
		256-QAM	-26.67	12.81	11.47	3.19	H		0.129	21.09		
3840.00	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-21.88	18.79	11.18	3.21	H	< 1.00	0.474	26.76	1	1
		QPSK	-21.93	18.74	11.18	3.21	H		0.469	26.71		
		16-QAM	-22.99	17.68	11.18	3.21	H		0.367	25.65		
		64-QAM	-24.32	16.35	11.18	3.21	H		0.270	24.32		
		256-QAM	-26.63	14.04	11.18	3.21	H		0.159	22.01		
3934.98		PI/2 BPSK	-22.45	18.60	11.19	3.25	H	< 1.00	0.451	26.54	1	1
		QPSK	-22.46	18.59	11.19	3.25	H		0.450	26.53		
		16-QAM	-23.67	17.38	11.19	3.25	H		0.340	25.32		
		64-QAM	-24.85	16.20	11.19	3.25	H		0.259	24.14		
		256-QAM	-27.18	13.87	11.19	3.25	H		0.152	21.81		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3750.00	Sub6 n77(78)/ 100 MHz [30 kHz]	PI/2 BPSK	-22.06	17.51	11.45	3.19	H	< 1.00	0.378	25.77	1	271
		QPSK	-22.29	17.28	11.45	3.19	H		0.358	25.54		
		16-QAM	-23.01	16.56	11.45	3.19	H		0.303	24.82		
		64-QAM	-24.60	14.97	11.45	3.19	H		0.210	23.23		
		256-QAM	-26.77	12.80	11.45	3.19	H		0.128	21.06		
3840.00		PI/2 BPSK	-22.31	18.36	11.18	3.21	H		0.430	26.33	1	136
		QPSK	-22.36	18.31	11.18	3.21	H		0.425	26.28		
		16-QAM	-23.38	17.29	11.18	3.21	H		0.336	25.26		
		64-QAM	-24.68	15.99	11.18	3.21	H		0.249	23.96		
		256-QAM	-27.03	13.64	11.18	3.21	H		0.145	21.61		
3930.00		PI/2 BPSK	-22.60	18.52	11.17	3.25	H		0.441	26.44	1	1
		QPSK	-22.81	18.31	11.17	3.25	H		0.420	26.23		
		16-QAM	-23.68	17.44	11.17	3.25	H		0.344	25.36		
		64-QAM	-25.16	15.96	11.17	3.25	H		0.244	23.88		
		256-QAM	-27.42	13.70	11.17	3.25	H		0.145	21.62		

9.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>NR n77(78)</u>
Bandwidth:	<u>25 MHz</u>
Modulation:	<u>PI/2 BPSK</u>
Distance:	<u>1 meters</u>
SCS:	<u>30 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
647500 (3712.50)	7 425.00	-60.33	11.42	-51.95	4.69	V	-45.22	-13.00	1	63
		-59.00		-50.62		H	-43.89	-13.00		
	11 137.50	-57.59	11.28	-45.36	5.84	V	-39.92	-13.00		
		-59.06		-46.83		H	-41.39	-13.00		
	14 850.00	-56.44	12.19	-50.93	6.84	V	-45.58	-13.00		
		-56.82		-51.31		H	-45.96	-13.00		
656000 (3840.00)	7 680.00	-61.49	11.94	-54.62	4.78	V	-47.46	-13.00	1	1
		-61.33		-54.46		H	-47.30	-13.00		
	11 520.00	-58.72	11.50	-47.62	5.93	V	-42.05	-13.00		
		-60.23		-49.13		H	-43.56	-13.00		
	15 360.00	-58.86	15.31	-51.40	6.97	V	-43.06	-13.00		
		-58.86		-51.40		H	-43.06	-13.00		
664500 (3967.50)	7 935.00	-60.09	11.62	-52.18	4.87	V	-45.43	-13.00	1	1
		-60.23		-52.32		H	-45.57	-13.00		
	11 902.50	-59.75	12.97	-49.26	6.06	V	-42.35	-13.00		
		-59.09		-48.60		H	-41.69	-13.00		
	15 870.00	-61.67	16.99	-53.94	7.08	V	-44.03	-13.00		
		-62.32		-54.59		H	-44.68	-13.00		

9.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)	Limit (dB)
Sub6 n77(78)	10 MHz	3840.00	PI/2 BPSK	Full RB	0	3.90	13.00
			QPSK			5.12	
			16-QAM			5.98	
			64-QAM			6.16	
			256-QAM			6.52	
	15 MHz		PI/2 BPSK			4.15	
			QPSK			5.01	
			16-QAM			5.81	
			64-QAM			6.14	
			256-QAM			6.62	
	20 MHz		PI/2 BPSK			4.01	
			QPSK			5.02	
			16-QAM			5.86	
			64-QAM			6.24	
			256-QAM			6.52	
	25 MHz		PI/2 BPSK			3.98	
			QPSK			5.01	
			16-QAM			5.85	
			64-QAM			6.17	
			256-QAM			6.44	
	30 MHz		PI/2 BPSK			4.44	
			QPSK			5.01	
			16-QAM			5.89	
			64-QAM			6.23	
			256-QAM			6.55	
	40 MHz		PI/2 BPSK			4.04	
			QPSK			4.91	
			16-QAM			5.74	
			64-QAM			6.15	
			256-QAM			6.38	

	50 MHz	PI/2 BPSK			4.28
		QPSK			4.97
		16-QAM			5.73
		64-QAM			6.13
		256-QAM			6.60
	60 MHz	PI/2 BPSK			4.25
		QPSK			5.10
		16-QAM			6.02
		64-QAM			6.32
		256-QAM			6.62
	70 MHz	PI/2 BPSK			4.07
		QPSK			5.24
		16-QAM			6.01
		64-QAM			6.29
		256-QAM			6.69
	80 MHz	PI/2 BPSK			4.29
		QPSK			5.05
		16-QAM			5.92
		64-QAM			6.21
		256-QAM			6.65
	90 MHz	PI/2 BPSK			4.16
		QPSK			5.03
		16-QAM			5.87
		64-QAM			6.18
		256-QAM			6.62
	100 MHz	PI/2 BPSK			4.51
		QPSK			5.05
		16-QAM			5.88
		64-QAM			6.18
		256-QAM			6.56

9.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n77(78)	10 MHz	3840.00	PI/2 BPSK	Full RB	0	8.6995
			QPSK			8.7200
			16-QAM			8.6458
			64-QAM			8.6773
			256-QAM			8.6724
	15 MHz		PI/2 BPSK			12.880
			QPSK			12.913
			16-QAM			13.031
			64-QAM			12.917
			256-QAM			12.921
	20 MHz		PI/2 BPSK			17.994
			QPSK			17.872
			16-QAM			17.957
			64-QAM			17.890
			256-QAM			18.029
	25 MHz		PI/2 BPSK			22.965
			QPSK			22.933
			16-QAM			22.948
			64-QAM			22.970
			256-QAM			22.974
	30 MHz		PI/2 BPSK			26.850
			QPSK			26.905
			16-QAM			26.777
			64-QAM			26.898
			256-QAM			26.893
	40 MHz		PI/2 BPSK			35.779
			QPSK			35.742
			16-QAM			35.712
			64-QAM			35.772
			256-QAM			35.704

	50 MHz		PI/2 BPSK			45.733
			QPSK			45.745
			16-QAM			45.813
			64-QAM			45.750
			256-QAM			45.884
	60 MHz		PI/2 BPSK			58.054
			QPSK			57.998
			16-QAM			57.887
			64-QAM			57.924
			256-QAM			57.984
	70 MHz		PI/2 BPSK			64.479
			QPSK			64.552
			16-QAM			64.632
			64-QAM			64.406
			256-QAM			64.760
	80 MHz		PI/2 BPSK			77.096
			QPSK			77.478
			16-QAM			77.202
			64-QAM			77.261
			256-QAM			77.297
	90 MHz		PI/2 BPSK			87.060
			QPSK			87.027
			16-QAM			86.867
			64-QAM			86.869
			256-QAM			86.906
100 MHz	PI/2 BPSK	96.564				
	QPSK	96.466				
	16-QAM	96.545				
	64-QAM	96.417				
	256-QAM	96.315				

9.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n77(78)	10	3705.000	8.8634	29.116	-62.493	-33.377	-13.00
		3840.000	9.4616	29.116	-62.957	-33.841	
		3975.000	7.9960	29.116	-62.506	-33.390	
	15	3707.520	7.9761	29.116	-64.106	-34.990	
		3840.000	9.1924	29.116	-63.811	-34.695	
		3972.480	9.7408	29.116	-62.673	-33.557	
	20	3710.010	9.6710	29.116	-63.392	-34.276	
		3840.000	8.2951	29.116	-63.434	-34.318	
		3969.990	9.0728	29.116	-63.450	-34.334	
	25	3712.500	4.2274	28.533	-55.454	-26.921	
		3840.000	4.2174	28.533	-55.178	-26.645	
		3967.500	4.2174	28.533	-55.938	-27.405	
	30	3715.020	4.2174	28.533	-56.863	-28.330	
		3840.000	4.2174	28.533	-55.138	-26.605	
		3964.980	4.2274	28.533	-56.062	-27.529	
	40	3720.000	4.2174	28.533	-56.710	-28.177	
		3840.000	4.2174	28.533	-55.599	-27.066	
		3960.000	4.2274	28.533	-55.013	-26.480	
	50	3725.010	4.2174	28.533	-55.150	-26.617	
		3840.000	4.2174	28.533	-55.112	-26.579	
		3954.990	4.2174	28.533	-55.231	-26.698	
	60	3730.020	4.2174	28.533	-55.937	-27.404	
		3840.000	4.2174	28.533	-55.172	-26.639	
		3949.980	4.2174	28.533	-55.246	-26.713	
	70	3735.000	4.2174	28.533	-57.510	-28.977	
		3840.000	4.2174	28.533	-55.834	-27.301	
		3945.000	4.2174	28.533	-57.755	-29.222	
	80	3740.010	4.2174	28.533	-56.014	-27.481	
		3840.000	4.2174	28.533	-55.433	-26.900	
		3939.990	4.2174	28.533	-56.011	-27.478	
	90	3745.020	4.2174	28.533	-55.478	-26.945	
		3840.000	4.2174	28.533	-55.587	-27.054	
		3934.980	4.2174	28.533	-56.397	-27.864	
	100	3750.000	4.2174	28.533	-57.164	-28.631	
		3840.000	4.2174	28.533	-57.369	-28.836	
		3930.000	4.2174	28.533	-56.131	-27.598	

Note:

1. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)

- Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

2. Factor(dB)

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.012
1 – 5	28.533
5 – 10	29.116
10 – 15	30.025
15 – 20	31.052
Above 20	31.613

9.6 BAND EDGE

1. Plots of the EUT's Band Edge are shown Section 11.4.

2. Duty Cycle factor already applied on the factor.

- Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter

- Result(dBm) = Reading + Factor

- Duty Cycle Factor(dB) = 6.990

9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ BandWidth: 10 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3705.000	100 %	+20(Ref)	3704 999 998	0.0	0.000 000	0.000
	100 %	-30	3704 999 998	-0.1	0.000 000	0.000
	100 %	-20	3705 000 000	1.8	0.000 000	0.000
	100 %	-10	3704 999 995	-3.5	0.000 000	-0.001
	100 %	0	3704 999 995	-3.6	0.000 000	-0.001
	100 %	+10	3704 999 996	-2.1	0.000 000	-0.001
	100 %	+30	3704 999 996	-1.9	0.000 000	-0.001
	100 %	+40	3704 999 994	-4.5	0.000 000	-0.001
	100 %	+50	3704 999 996	-2.1	0.000 000	-0.001
	Batt. Endpoint	+20	3704 999 998	-0.4	0.000 000	0.000
3975.000	100 %	+20(Ref)	3974 999 999	0.0	0.000 000	0.000
	100 %	-30	3974 999 997	-2.5	0.000 000	-0.001
	100 %	-20	3975 000 001	1.5	0.000 000	0.000
	100 %	-10	3974 999 998	-0.9	0.000 000	0.000
	100 %	0	3974 999 999	-0.3	0.000 000	0.000
	100 %	+10	3975 000 001	1.9	0.000 000	0.000
	100 %	+30	3974 999 995	-4.5	0.000 000	-0.001
	100 %	+40	3974 999 998	-1.5	0.000 000	0.000
	100 %	+50	3974 999 996	-3.3	0.000 000	-0.001
	Batt. Endpoint	+20	3974 999 998	-0.7	0.000 000	0.000

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3707.520	100 %	+20(Ref)	3707 519 992	0.0	0.000 000	0.000
	100 %	-30	3707 519 994	1.2	0.000 000	0.000
	100 %	-20	3707 519 980	-12.3	0.000 000	-0.003
	100 %	-10	3707 519 985	-7.7	0.000 000	-0.002
	100 %	0	3707 519 981	-11.1	0.000 000	-0.003
	100 %	+10	3707 519 987	-5.0	0.000 000	-0.001
	100 %	+30	3707 519 979	-13.0	0.000 000	-0.004
	100 %	+40	3707 519 985	-7.4	0.000 000	-0.002
	100 %	+50	3707 519 989	-3.6	0.000 000	-0.001
	Batt. Endpoint	+20	3707 519 983	-9.8	0.000 000	-0.003
3972.480	100 %	+20(Ref)	3972 479 988	0.0	0.000 000	0.000
	100 %	-30	3972 479 974	-13.8	0.000 000	-0.003
	100 %	-20	3972 479 983	-5.4	0.000 000	-0.001
	100 %	-10	3972 479 994	6.2	0.000 000	0.002
	100 %	0	3972 479 977	-11.6	0.000 000	-0.003
	100 %	+10	3972 479 984	-4.4	0.000 000	-0.001
	100 %	+30	3972 479 971	-17.2	0.000 000	-0.004
	100 %	+40	3972 479 975	-13.1	0.000 000	-0.003
	100 %	+50	3972 479 975	-13.2	0.000 000	-0.003
	Batt. Endpoint	+20	3972 479 967	-21.7	-0.000 001	-0.005

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3710.010	100 %	+20(Ref)	3710 010 002	0.0	0.000 000	0.000
	100 %	-30	3710 010 003	1.0	0.000 000	0.000
	100 %	-20	3710 010 000	-1.9	0.000 000	-0.001
	100 %	-10	3710 009 997	-5.3	0.000 000	-0.001
	100 %	0	3710 009 999	-2.7	0.000 000	-0.001
	100 %	+10	3710 010 000	-2.1	0.000 000	-0.001
	100 %	+30	3710 010 004	1.6	0.000 000	0.000
	100 %	+40	3710 010 001	-1.4	0.000 000	0.000
	100 %	+50	3710 010 002	-0.1	0.000 000	0.000
	Batt. Endpoint	+20	3710 010 002	0.4	0.000 000	0.000
3969.990	100 %	+20(Ref)	3969 990 006	0.0	0.000 000	0.000
	100 %	-30	3969 990 007	0.8	0.000 000	0.000
	100 %	-20	3969 990 007	0.9	0.000 000	0.000
	100 %	-10	3969 990 001	-5.4	0.000 000	-0.001
	100 %	0	3969 990 013	6.9	0.000 000	0.002
	100 %	+10	3969 990 007	1.0	0.000 000	0.000
	100 %	+30	3969 990 007	1.1	0.000 000	0.000
	100 %	+40	3969 990 003	-3.1	0.000 000	-0.001
	100 %	+50	3969 990 002	-4.3	0.000 000	-0.001
	Batt. Endpoint	+20	3969 990 004	-2.4	0.000 000	-0.001

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3712.500	100 %	+20(Ref)	3712 500 000	0.0	0.000 000	0.000
	100 %	-30	3712 499 996	-4.3	0.000 000	-0.001
	100 %	-20	3712 499 996	-3.8	0.000 000	-0.001
	100 %	-10	3712 499 999	-0.6	0.000 000	0.000
	100 %	0	3712 499 997	-3.3	0.000 000	-0.001
	100 %	+10	3712 499 994	-5.8	0.000 000	-0.002
	100 %	+30	3712 499 997	-3.4	0.000 000	-0.001
	100 %	+40	3712 499 993	-6.6	0.000 000	-0.002
	100 %	+50	3712 499 997	-3.4	0.000 000	-0.001
	Batt. Endpoint	+20	3712 499 998	-1.7	0.000 000	0.000
3967.500	100 %	+20(Ref)	3967 500 000	0.0	0.000 000	0.000
	100 %	-30	3967 500 006	5.9	0.000 000	0.001
	100 %	-20	3967 500 000	-0.1	0.000 000	0.000
	100 %	-10	3967 500 001	1.2	0.000 000	0.000
	100 %	0	3967 500 007	6.5	0.000 000	0.002
	100 %	+10	3967 499 996	-4.1	0.000 000	-0.001
	100 %	+30	3967 499 999	-1.3	0.000 000	0.000
	100 %	+40	3967 499 997	-3.2	0.000 000	-0.001
	100 %	+50	3967 500 004	3.7	0.000 000	0.001
	Batt. Endpoint	+20	3967 499 999	-1.4	0.000 000	0.000

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3715.020	100 %	+20(Ref)	3715 020 000	0.0	0.000 000	0.000
	100 %	-30	3715 020 000	0.6	0.000 000	0.000
	100 %	-20	3715 020 000	0.2	0.000 000	0.000
	100 %	-10	3715 020 002	2.7	0.000 000	0.001
	100 %	0	3715 020 002	2.0	0.000 000	0.001
	100 %	+10	3715 020 002	2.1	0.000 000	0.001
	100 %	+30	3715 020 005	5.4	0.000 000	0.001
	100 %	+40	3715 019 996	-3.2	0.000 000	-0.001
	100 %	+50	3715 020 005	5.3	0.000 000	0.001
	Batt. Endpoint	+20	3715 019 996	-4.1	0.000 000	-0.001
3964.980	100 %	+20(Ref)	3964 979 995	0.0	0.000 000	0.000
	100 %	-30	3964 979 989	-5.9	0.000 000	-0.001
	100 %	-20	3964 979 993	-1.5	0.000 000	0.000
	100 %	-10	3964 979 989	-5.6	0.000 000	-0.001
	100 %	0	3964 979 992	-3.3	0.000 000	-0.001
	100 %	+10	3964 979 988	-7.0	0.000 000	-0.002
	100 %	+30	3964 979 987	-7.9	0.000 000	-0.002
	100 %	+40	3964 979 991	-3.7	0.000 000	-0.001
	100 %	+50	3964 979 989	-5.8	0.000 000	-0.001
	Batt. Endpoint	+20	3964 979 992	-2.5	0.000 000	-0.001

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3720.000	100 %	+20(Ref)	3720 000 001	0.0	0.000 000	0.000
	100 %	-30	3720 000 002	0.5	0.000 000	0.000
	100 %	-20	3720 000 000	-1.3	0.000 000	0.000
	100 %	-10	3720 000 001	-0.2	0.000 000	0.000
	100 %	0	3719 999 995	-6.4	0.000 000	-0.002
	100 %	+10	3719 999 998	-3.0	0.000 000	-0.001
	100 %	+30	3720 000 007	6.1	0.000 000	0.002
	100 %	+40	3719 999 997	-4.5	0.000 000	-0.001
	100 %	+50	3720 000 006	4.8	0.000 000	0.001
	Batt. Endpoint	+20	3720 000 004	2.5	0.000 000	0.001
3960.000	100 %	+20(Ref)	3959 999 993	0.0	0.000 000	0.000
	100 %	-30	3959 999 992	-1.7	0.000 000	0.000
	100 %	-20	3959 999 992	-1.6	0.000 000	0.000
	100 %	-10	3959 999 993	-0.7	0.000 000	0.000
	100 %	0	3959 999 990	-3.7	0.000 000	-0.001
	100 %	+10	3959 999 991	-2.1	0.000 000	-0.001
	100 %	+30	3959 999 996	2.9	0.000 000	0.001
	100 %	+40	3959 999 994	0.7	0.000 000	0.000
	100 %	+50	3959 999 990	-3.2	0.000 000	-0.001
	Batt. Endpoint	+20	3959 999 993	0.1	0.000 000	0.000

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3725.010	100 %	+20(Ref)	3725 009 997	0.0	0.000 000	0.000
	100 %	-30	3725 009 999	1.9	0.000 000	0.000
	100 %	-20	3725 009 995	-2.2	0.000 000	-0.001
	100 %	-10	3725 009 993	-3.6	0.000 000	-0.001
	100 %	0	3725 009 994	-2.8	0.000 000	-0.001
	100 %	+10	3725 009 997	0.1	0.000 000	0.000
	100 %	+30	3725 009 993	-3.9	0.000 000	-0.001
	100 %	+40	3725 009 997	-0.1	0.000 000	0.000
	100 %	+50	3725 009 996	-1.3	0.000 000	0.000
	Batt. Endpoint	+20	3725 009 991	-6.1	0.000 000	-0.002
3954.990	100 %	+20(Ref)	3954 990 000	0.0	0.000 000	0.000
	100 %	-30	3954 989 999	-0.9	0.000 000	0.000
	100 %	-20	3954 989 995	-4.6	0.000 000	-0.001
	100 %	-10	3954 989 999	-1.3	0.000 000	0.000
	100 %	0	3954 989 997	-2.9	0.000 000	-0.001
	100 %	+10	3954 990 000	-0.2	0.000 000	0.000
	100 %	+30	3954 989 995	-5.3	0.000 000	-0.001
	100 %	+40	3954 989 997	-3.3	0.000 000	-0.001
	100 %	+50	3954 989 996	-3.5	0.000 000	-0.001
	Batt. Endpoint	+20	3954 990 000	0.6	0.000 000	0.000

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3730.020	100 %	+20(Ref)	3730 020 003	0.0	0.000 000	0.000
	100 %	-30	3730 020 005	1.9	0.000 000	0.001
	100 %	-20	3730 020 003	-0.3	0.000 000	0.000
	100 %	-10	3730 020 002	-1.6	0.000 000	0.000
	100 %	0	3730 020 000	-3.1	0.000 000	-0.001
	100 %	+10	3730 019 996	-7.2	0.000 000	-0.002
	100 %	+30	3730 020 008	4.0	0.000 000	0.001
	100 %	+40	3730 019 997	-6.3	0.000 000	-0.002
	100 %	+50	3730 020 007	3.9	0.000 000	0.001
	Batt. Endpoint	+20	3730 020 003	-0.6	0.000 000	0.000
3949.980	100 %	+20(Ref)	3949 979 996	0.0	0.000 000	0.000
	100 %	-30	3949 979 993	-3.0	0.000 000	-0.001
	100 %	-20	3949 979 991	-4.8	0.000 000	-0.001
	100 %	-10	3949 979 990	-6.0	0.000 000	-0.002
	100 %	0	3949 979 991	-4.8	0.000 000	-0.001
	100 %	+10	3949 979 988	-8.1	0.000 000	-0.002
	100 %	+30	3949 979 992	-4.5	0.000 000	-0.001
	100 %	+40	3949 979 997	0.5	0.000 000	0.000
	100 %	+50	3949 979 990	-6.3	0.000 000	-0.002
	Batt. Endpoint	+20	3949 979 993	-2.9	0.000 000	-0.001

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3735.000	100 %	+20(Ref)	3735 000 001	0.0	0.000 000	0.000
	100 %	-30	3735 000 001	0.5	0.000 000	0.000
	100 %	-20	3735 000 003	2.8	0.000 000	0.001
	100 %	-10	3734 999 997	-3.8	0.000 000	-0.001
	100 %	0	3734 999 997	-3.1	0.000 000	-0.001
	100 %	+10	3734 999 998	-2.7	0.000 000	-0.001
	100 %	+30	3734 999 997	-3.6	0.000 000	-0.001
	100 %	+40	3735 000 000	-0.4	0.000 000	0.000
	100 %	+50	3734 999 998	-2.4	0.000 000	-0.001
	Batt. Endpoint	+20	3735 000 002	1.6	0.000 000	0.000
3945.000	100 %	+20(Ref)	3944 999 991	0.0	0.000 000	0.000
	100 %	-30	3944 999 986	-5.1	0.000 000	-0.001
	100 %	-20	3944 999 989	-2.3	0.000 000	-0.001
	100 %	-10	3944 999 994	2.7	0.000 000	0.001
	100 %	0	3944 999 990	-0.5	0.000 000	0.000
	100 %	+10	3944 999 987	-4.2	0.000 000	-0.001
	100 %	+30	3944 999 989	-1.4	0.000 000	0.000
	100 %	+40	3944 999 991	0.1	0.000 000	0.000
	100 %	+50	3944 999 988	-2.9	0.000 000	-0.001
	Batt. Endpoint	+20	3944 999 992	1.0	0.000 000	0.000

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3740.010	100 %	+20(Ref)	3740 010 007	0.0	0.000 000	0.000
	100 %	-30	3740 010 004	-2.6	0.000 000	-0.001
	100 %	-20	3740 010 006	-0.5	0.000 000	0.000
	100 %	-10	3740 010 006	-0.9	0.000 000	0.000
	100 %	0	3740 010 004	-2.6	0.000 000	-0.001
	100 %	+10	3740 010 003	-3.8	0.000 000	-0.001
	100 %	+30	3740 010 010	2.8	0.000 000	0.001
	100 %	+40	3740 010 003	-3.6	0.000 000	-0.001
	100 %	+50	3740 010 010	3.7	0.000 000	0.001
	Batt. Endpoint	+20	3740 010 006	-1.0	0.000 000	0.000
3939.990	100 %	+20(Ref)	3939 989 997	0.0	0.000 000	0.000
	100 %	-30	3939 989 997	0.3	0.000 000	0.000
	100 %	-20	3939 989 994	-2.4	0.000 000	-0.001
	100 %	-10	3939 989 990	-6.6	0.000 000	-0.002
	100 %	0	3939 989 992	-4.6	0.000 000	-0.001
	100 %	+10	3939 989 996	-1.1	0.000 000	0.000
	100 %	+30	3939 989 991	-5.7	0.000 000	-0.001
	100 %	+40	3939 989 993	-4.0	0.000 000	-0.001
	100 %	+50	3939 989 990	-6.6	0.000 000	-0.002
	Batt. Endpoint	+20	3939 989 993	-4.1	0.000 000	-0.001

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3745.020	100 %	+20(Ref)	3745 019 999	0.0	0.000 000	0.000
	100 %	-30	3745 020 001	2.1	0.000 000	0.001
	100 %	-20	3745 020 000	0.7	0.000 000	0.000
	100 %	-10	3745 020 000	1.0	0.000 000	0.000
	100 %	0	3745 019 993	-5.9	0.000 000	-0.002
	100 %	+10	3745 020 000	0.8	0.000 000	0.000
	100 %	+30	3745 019 997	-2.4	0.000 000	-0.001
	100 %	+40	3745 020 003	4.2	0.000 000	0.001
	100 %	+50	3745 019 997	-1.8	0.000 000	0.000
	Batt. Endpoint	+20	3745 019 999	0.0	0.000 000	0.000
3934.980	100 %	+20(Ref)	3934 979 991	0.0	0.000 000	0.000
	100 %	-30	3934 979 991	0.0	0.000 000	0.000
	100 %	-20	3934 979 987	-3.5	0.000 000	-0.001
	100 %	-10	3934 979 994	3.0	0.000 000	0.001
	100 %	0	3934 979 990	-0.6	0.000 000	0.000
	100 %	+10	3934 979 989	-1.5	0.000 000	0.000
	100 %	+30	3934 979 990	-1.0	0.000 000	0.000
	100 %	+40	3934 979 992	0.9	0.000 000	0.000
	100 %	+50	3934 979 987	-4.4	0.000 000	-0.001
	Batt. Endpoint	+20	3934 979 989	-1.6	0.000 000	0.000

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3750.000	100 %	+20(Ref)	3749 999 999	0.0	0.000 000	0.000
	100 %	-30	3749 999 996	-3.1	0.000 000	-0.001
	100 %	-20	3749 999 998	-0.7	0.000 000	0.000
	100 %	-10	3749 999 995	-4.1	0.000 000	-0.001
	100 %	0	3749 999 999	0.4	0.000 000	0.000
	100 %	+10	3749 999 993	-6.1	0.000 000	-0.002
	100 %	+30	3749 999 992	-7.3	0.000 000	-0.002
	100 %	+40	3750 000 001	1.6	0.000 000	0.000
	100 %	+50	3749 999 996	-3.1	0.000 000	-0.001
	Batt. Endpoint	+20	3749 999 995	-3.9	0.000 000	-0.001
3930.000	100 %	+20(Ref)	3929 999 997	0.0	0.000 000	0.000
	100 %	-30	3929 999 994	-2.8	0.000 000	-0.001
	100 %	-20	3929 999 994	-2.9	0.000 000	-0.001
	100 %	-10	3929 999 999	2.0	0.000 000	0.001
	100 %	0	3929 999 993	-4.0	0.000 000	-0.001
	100 %	+10	3929 999 999	1.9	0.000 000	0.000
	100 %	+30	3929 999 997	0.2	0.000 000	0.000
	100 %	+40	3929 999 995	-2.5	0.000 000	-0.001
	100 %	+50	3929 999 993	-3.7	0.000 000	-0.001
	Batt. Endpoint	+20	3929 999 993	-4.4	0.000 000	-0.001

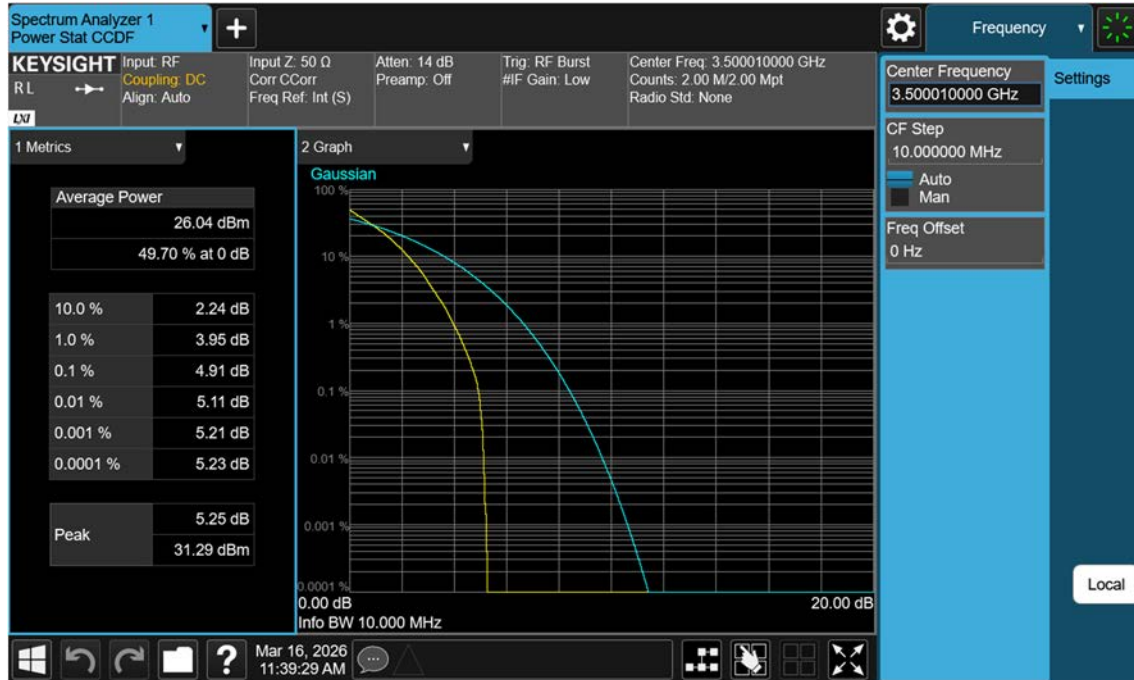
10. TEST PLOTS(3450 MHz - 3550 MHz)

10.1 PEAK-TO-AVERAGE RATIO

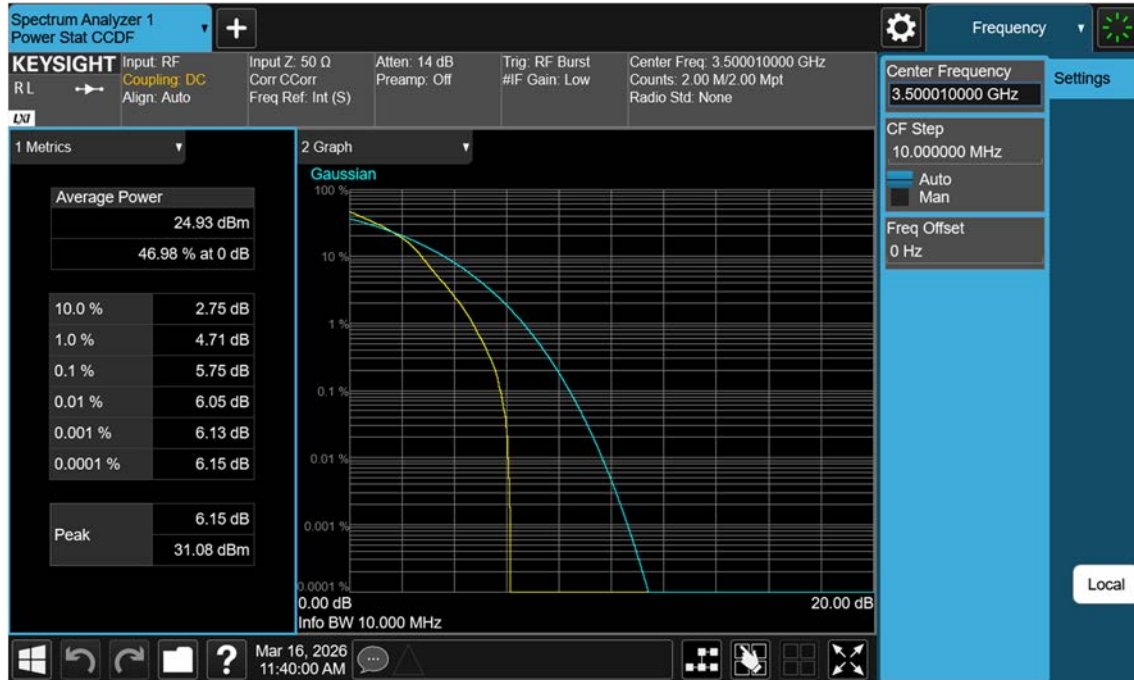
NR n77(78)(3450~3550 MHz)_10 M_PAR_Mid_PI/2 BPSK_FullIRB



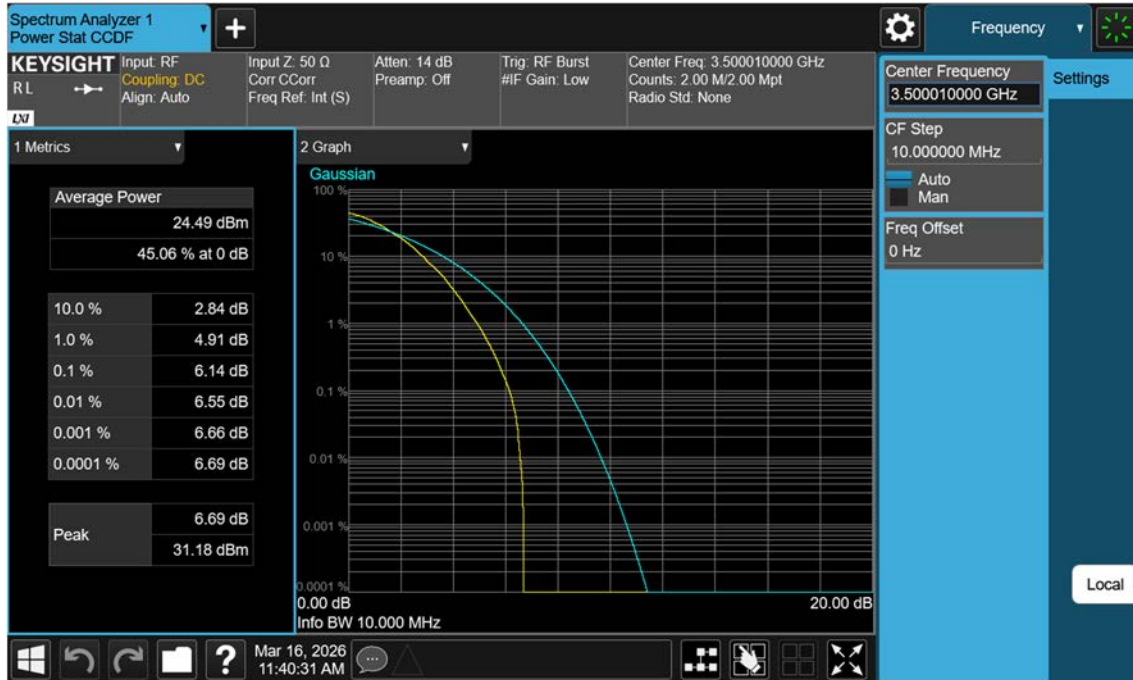
NR n77(78)(3450~3550 MHz)_10 M_PAR_Mid_QPSK_FullRB



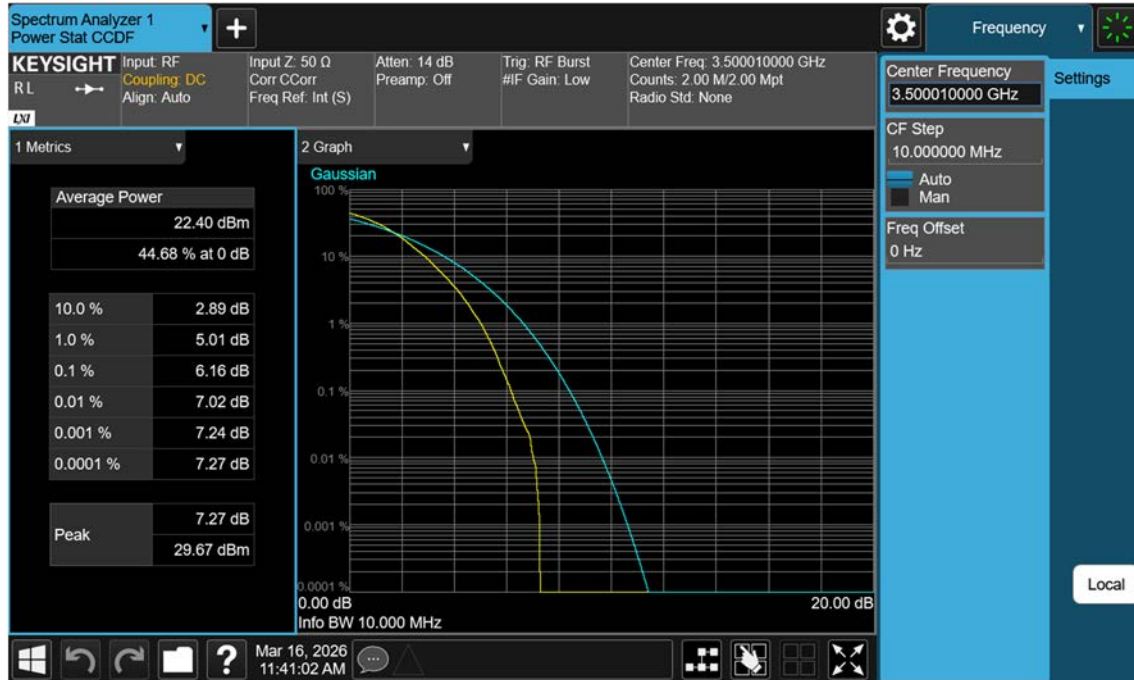
NR n77(78)(3450~3550 MHz)_10 M_PAR_Mid_16QAM_FullRB



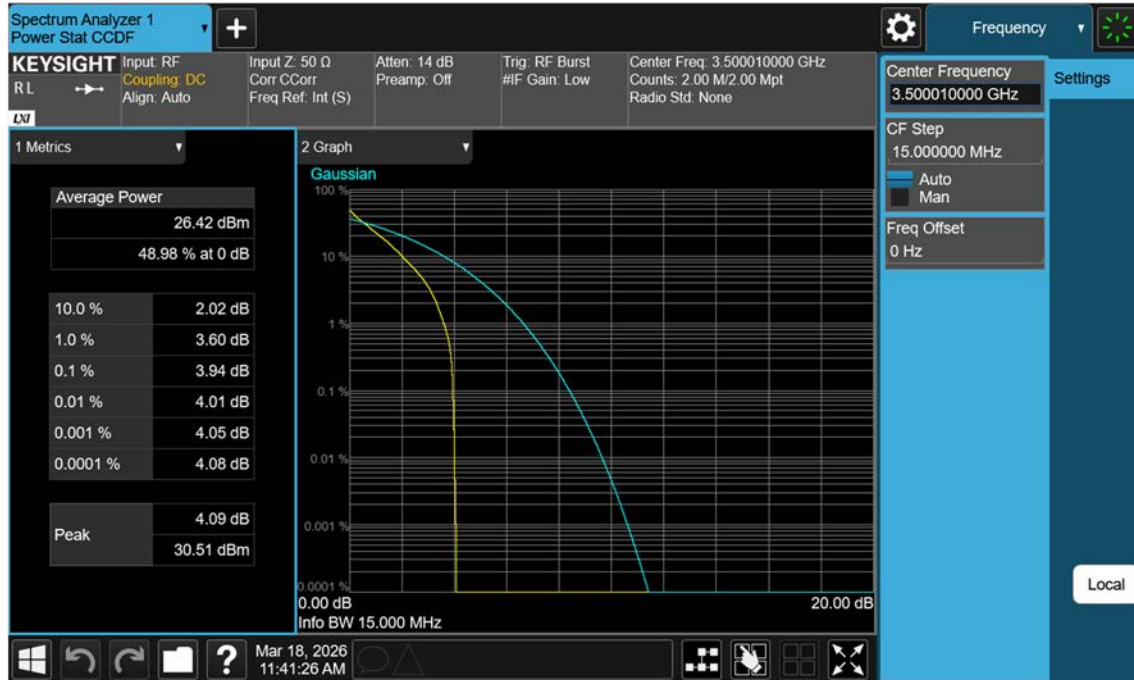
NR n77(78)(3450~3550 MHz)_10 M_PAR_Mid_64QAM_FullRB



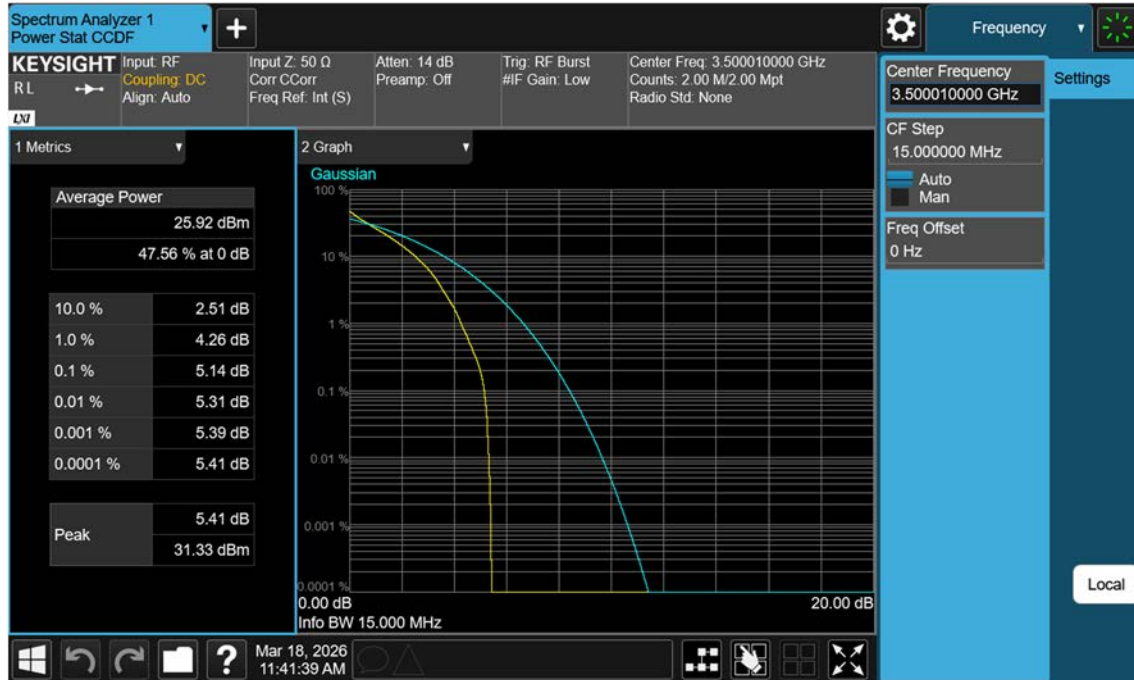
NR n77(78)(3450~3550 MHz)_10 M_PAR_Mid_256QAM_FullRB



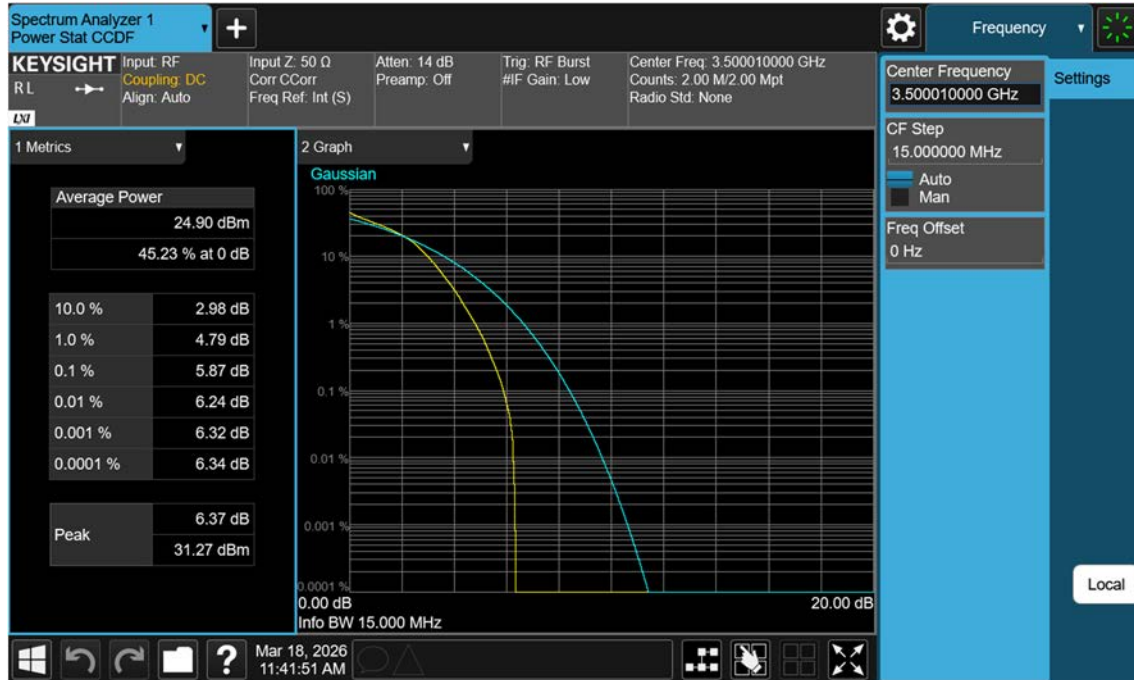
NR n77(78)(3450~3550 MHz)_15 M_PAR_Mid_PI/2 BPSK_FullIRB



NR n77(78)(3450~3550 MHz)_15 M_PAR_Mid_QPSK_FullRB



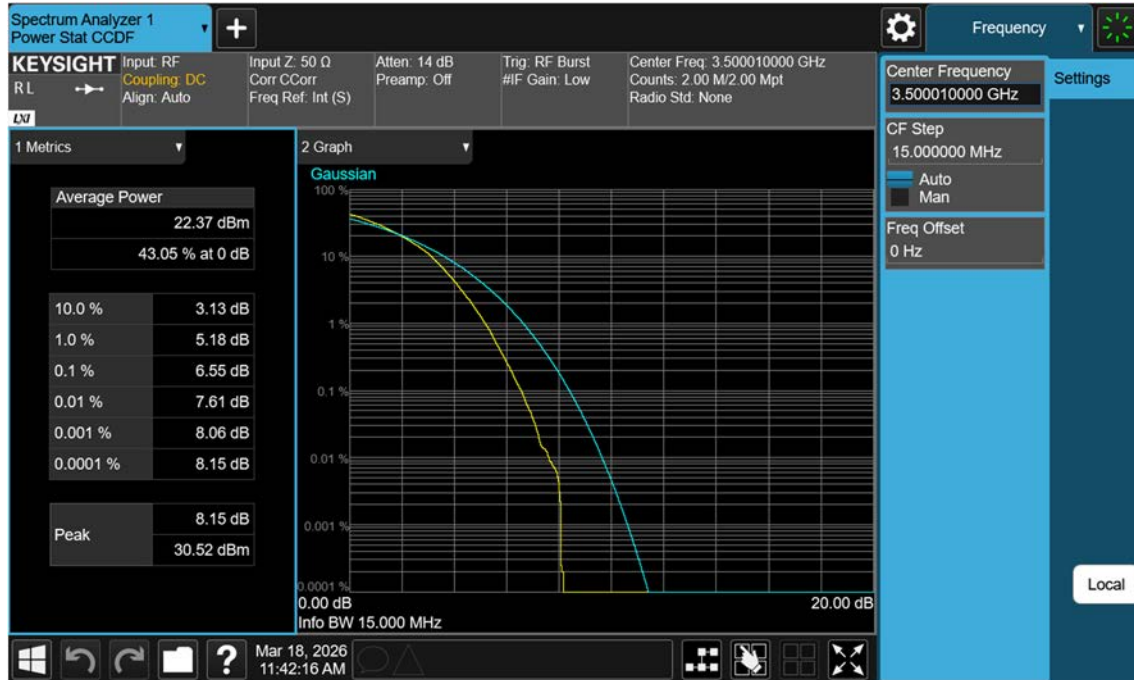
NR n77(78)(3450~3550 MHz)_15 M_PAR_Mid_16QAM_FullRB



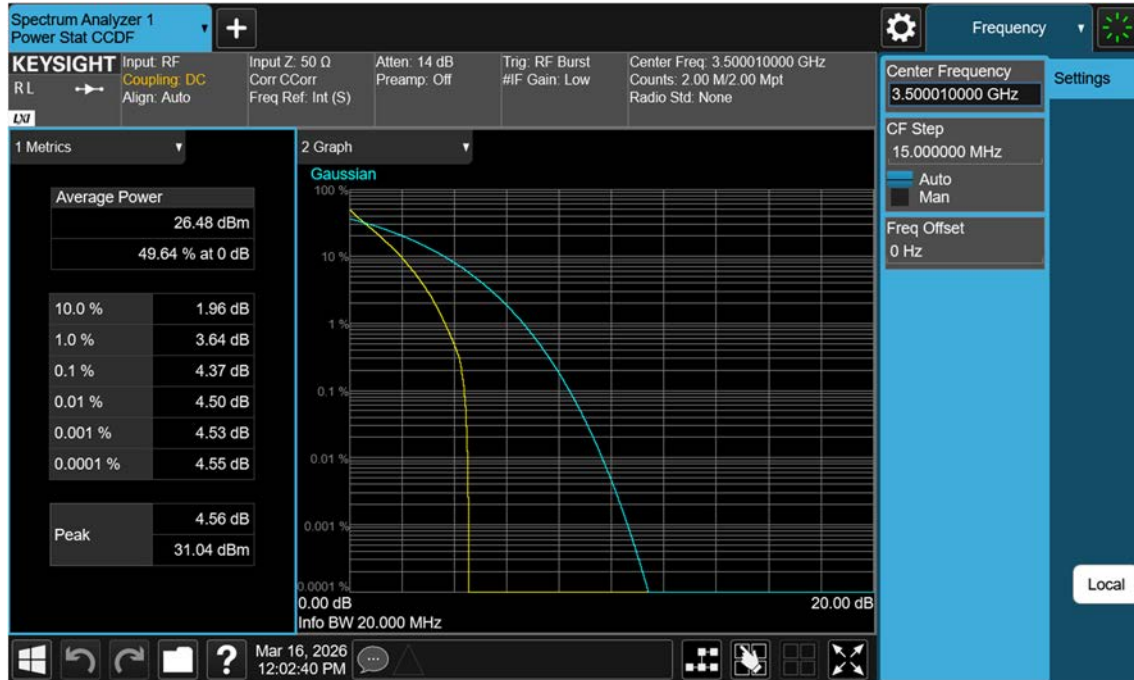
NR n77(78)(3450~3550 MHz)_15 M_PAR_Mid_64QAM_FullRB



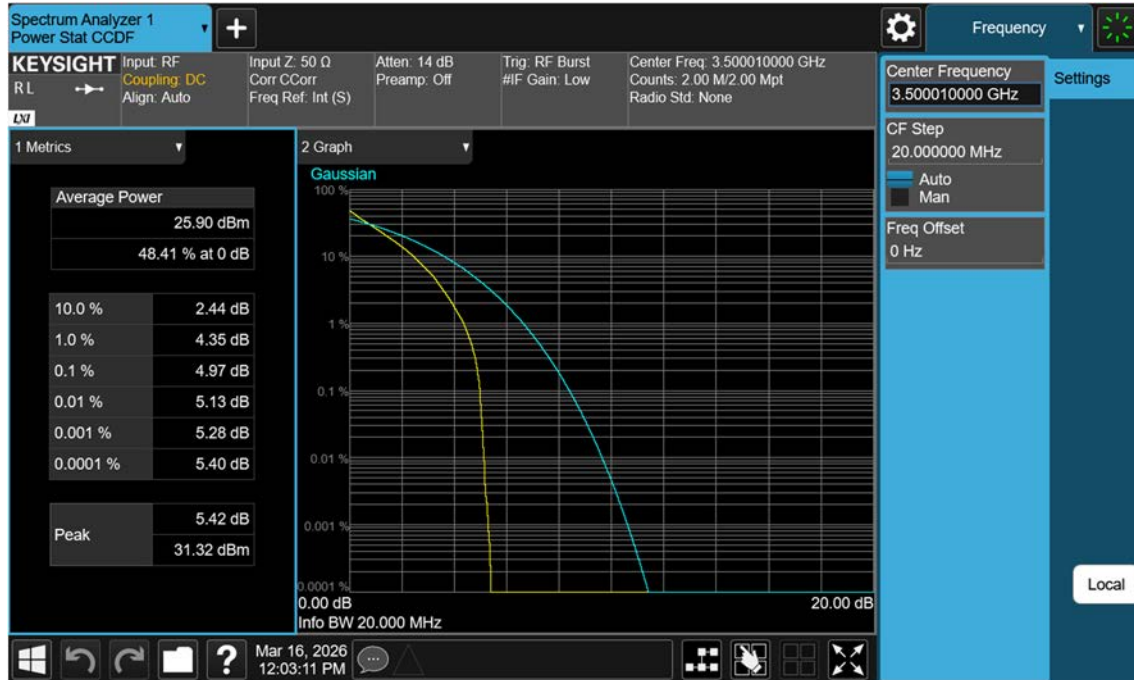
NR n77(78)(3450~3550 MHz)_15 M_PAR_Mid_256QAM_FullRB



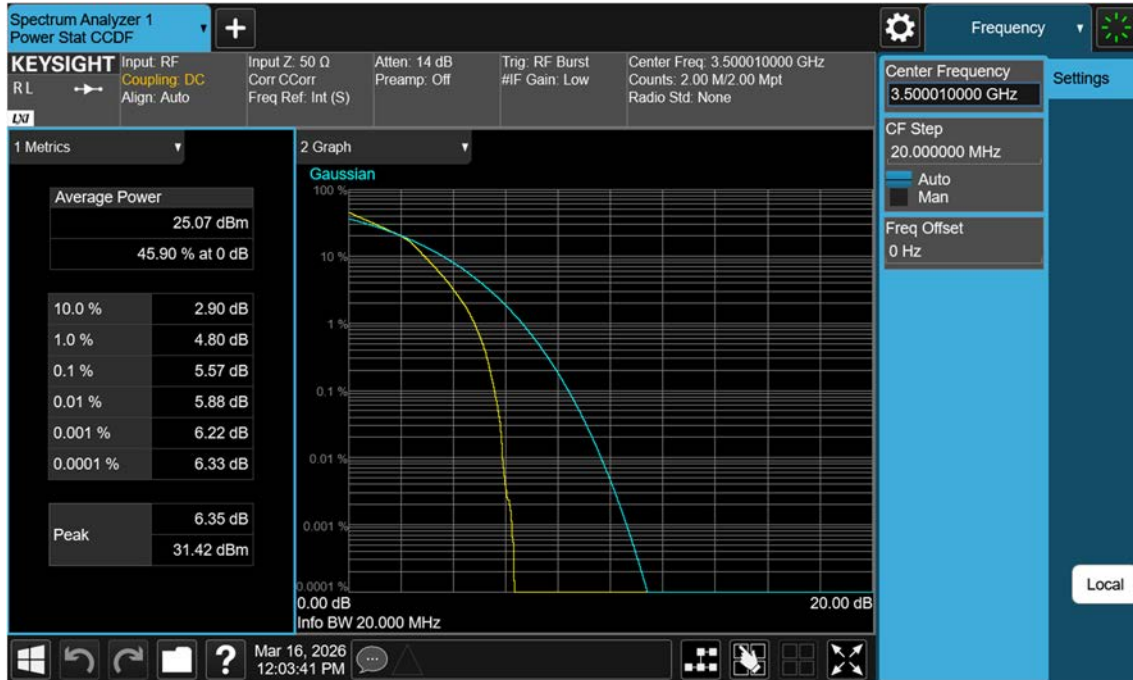
NR n77(78)(3450~3550 MHz)_20 M_PAR_Mid_PI/2 BPSK_FullRB



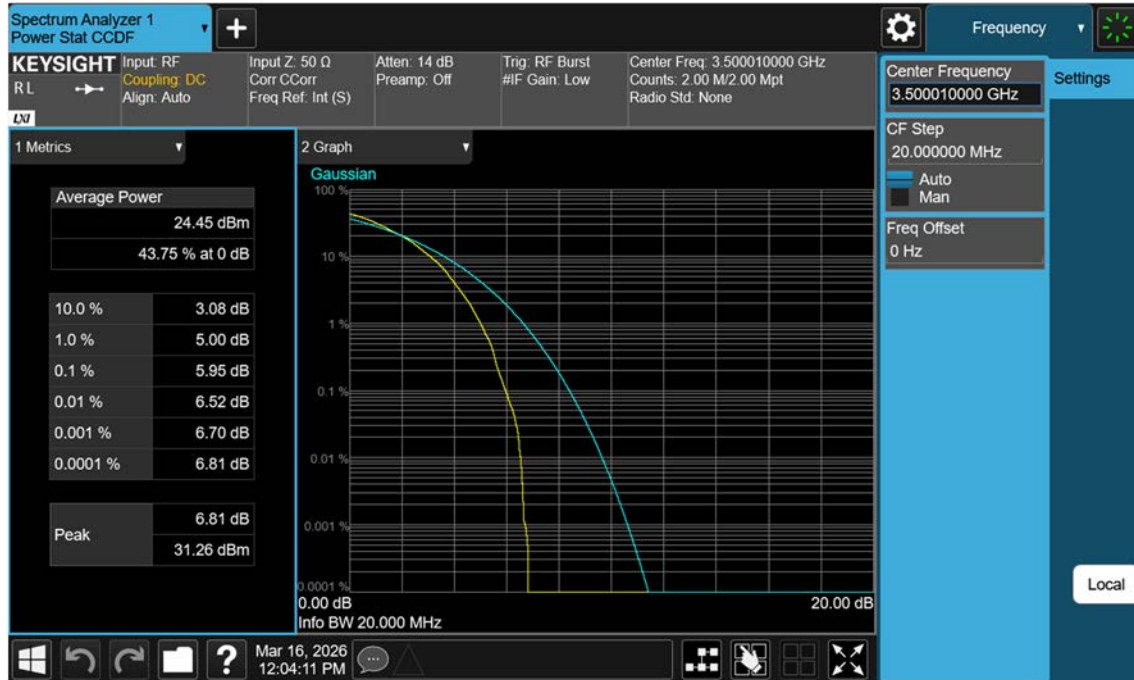
NR n77(78)(3450~3550 MHz)_20 M_PAR_Mid_QPSK_FullRB



NR n77(78)(3450~3550 MHz)_20 M_PAR_Mid_16QAM_FullRB



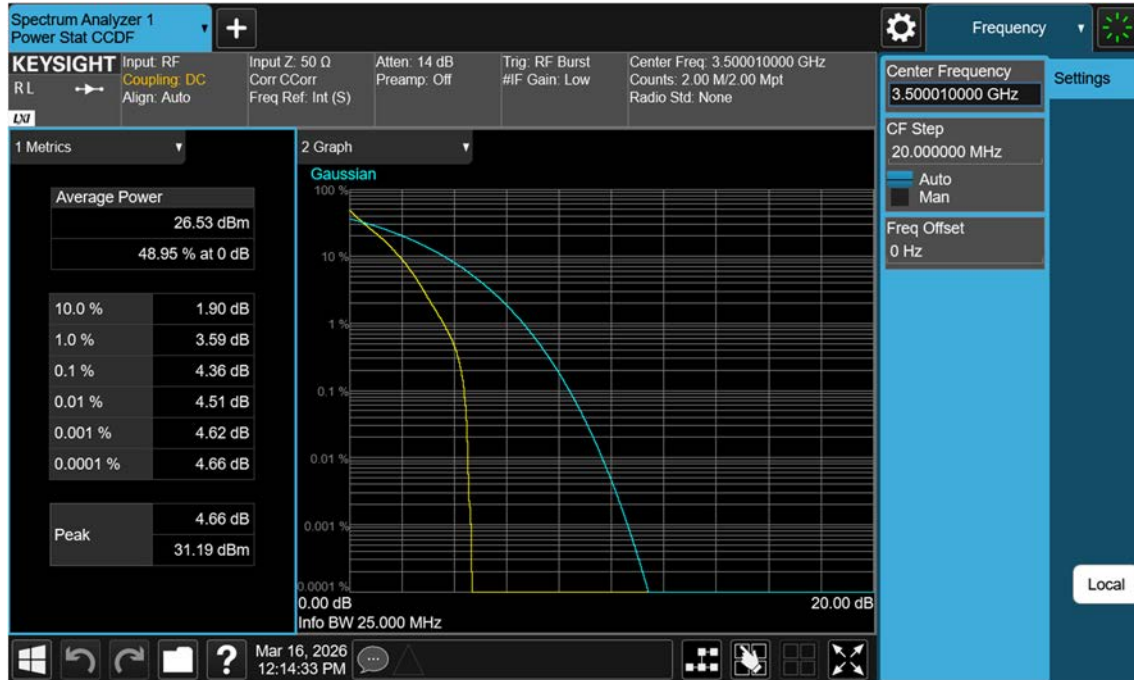
NR n77(78)(3450~3550 MHz)_20 M_PAR_Mid_64QAM_FullRB



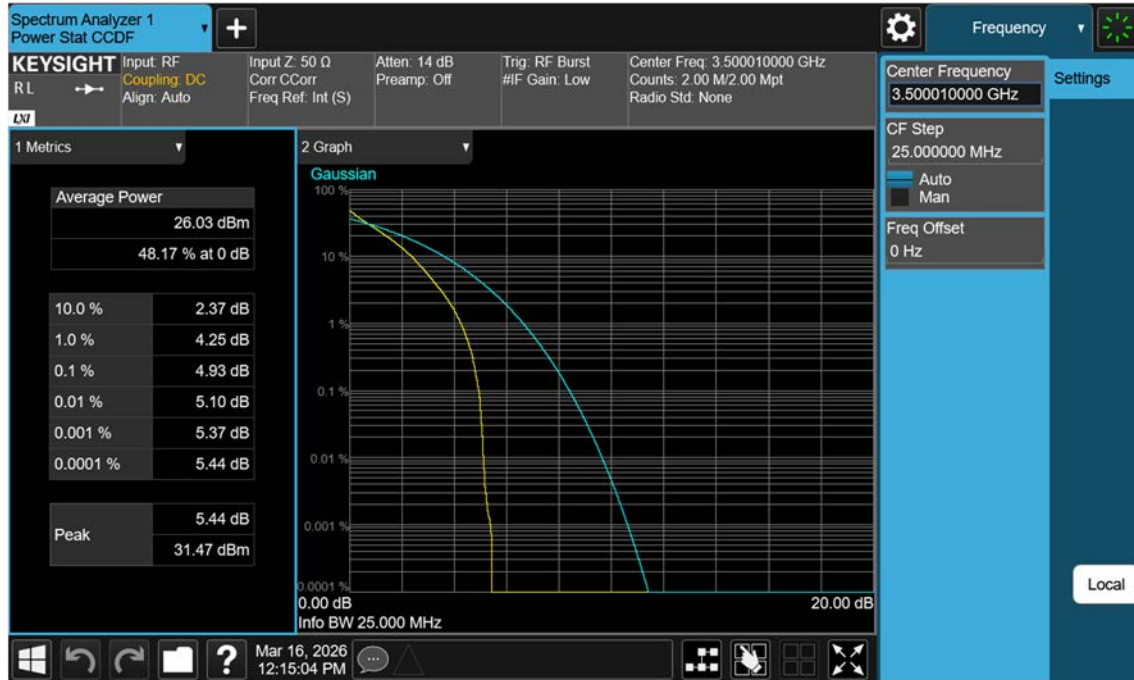
NR n77(78)(3450~3550 MHz)_20 M_PAR_Mid_256QAM_FullRB



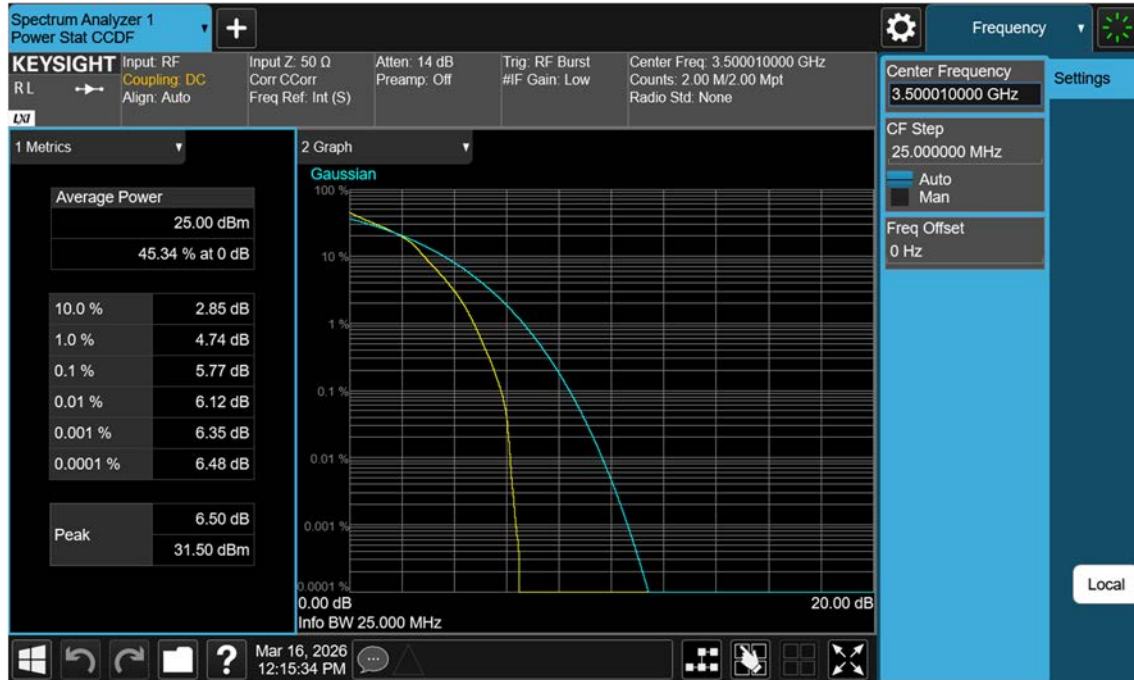
NR n77(78)(3450~3550 MHz)_25 M_PAR_Mid_PI/2 BPSK_FullIRB



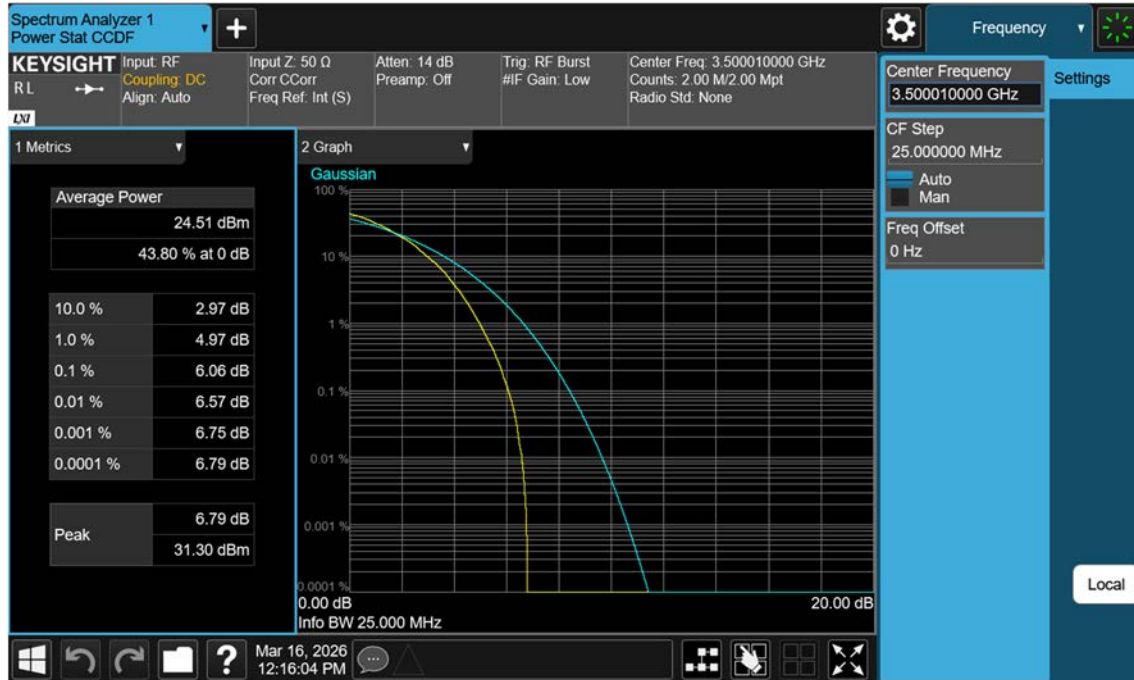
NR n77(78)(3450~3550 MHz)_25 M_PAR_Mid_QPSK_FullRB



NR n77(78)(3450~3550 MHz)_25 M_PAR_Mid_16QAM_FullRB



NR n77(78)(3450~3550 MHz)_25 M_PAR_Mid_64QAM_FullRB



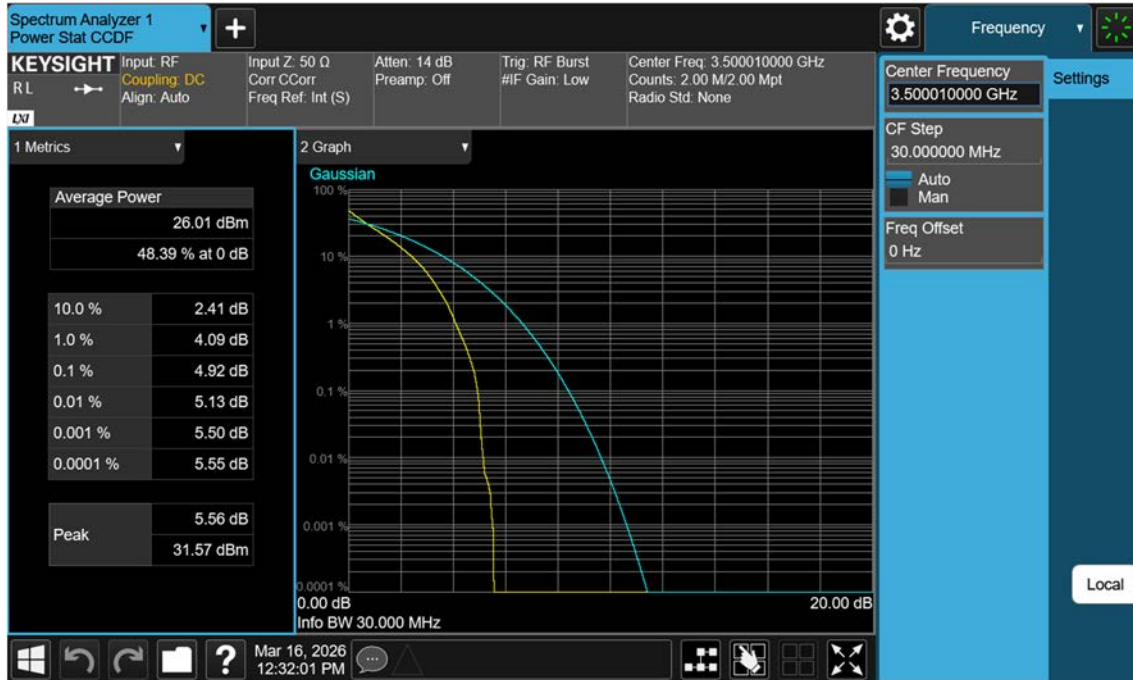
NR n77(78)(3450~3550 MHz)_25 M_PAR_Mid_256QAM_FullRB



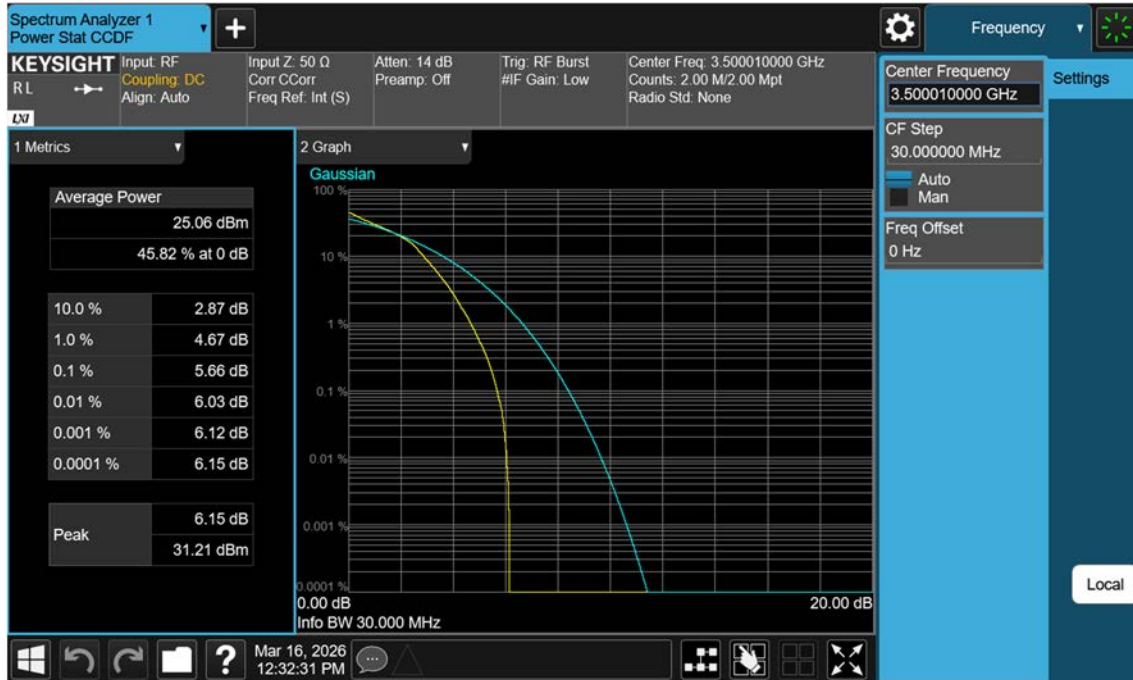
NR n77(78)(3450~3550 MHz)_30 M_PAR_Mid_PI/2 BPSK_FullIRB



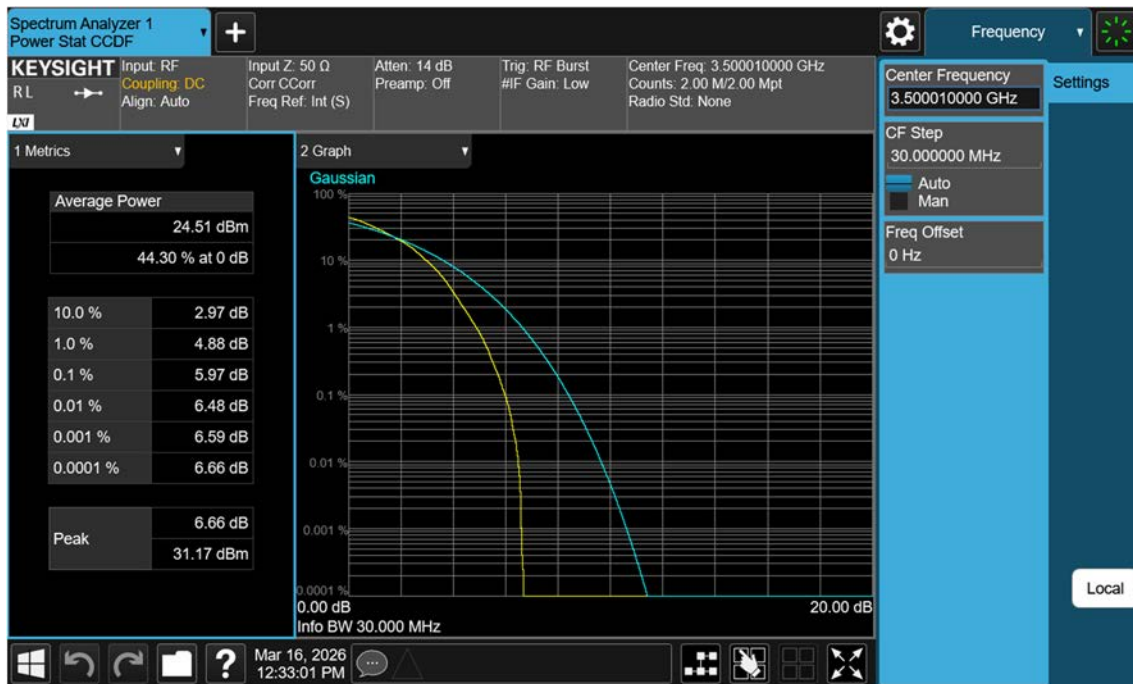
NR n77(78)(3450~3550 MHz)_30 M_PAR_Mid_QPSK_FullRB



NR n77(78)(3450~3550 MHz)_30 M_PAR_Mid_16QAM_FullRB



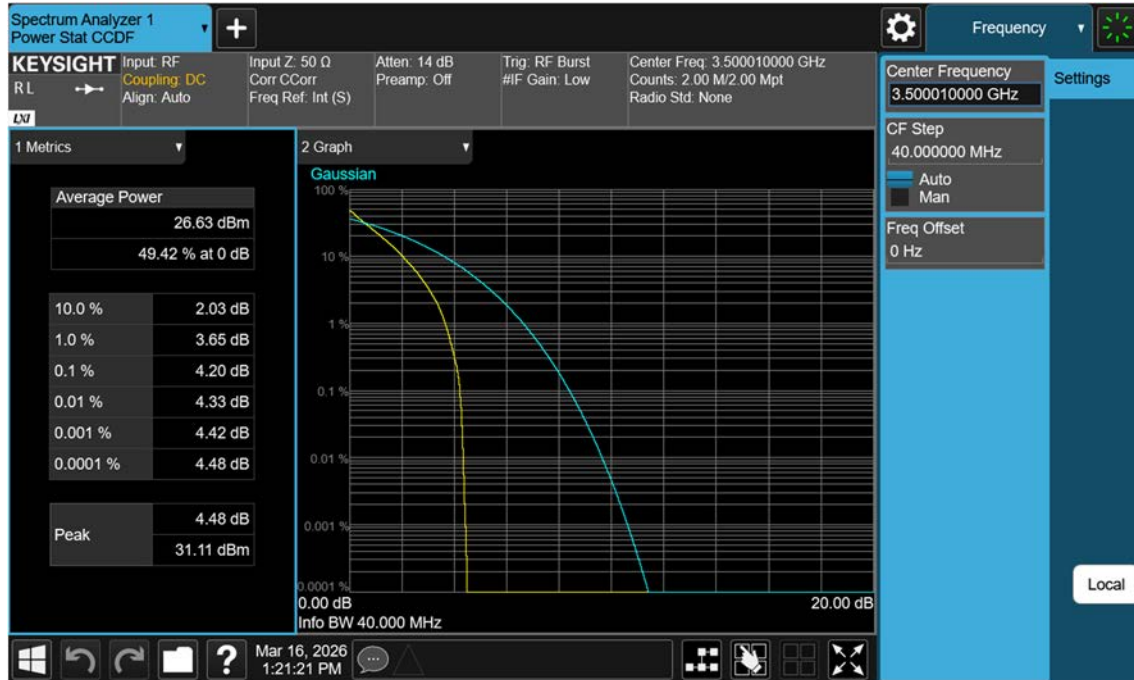
NR n77(78)(3450~3550 MHz)_30 M_PAR_Mid_64QAM_FullRB



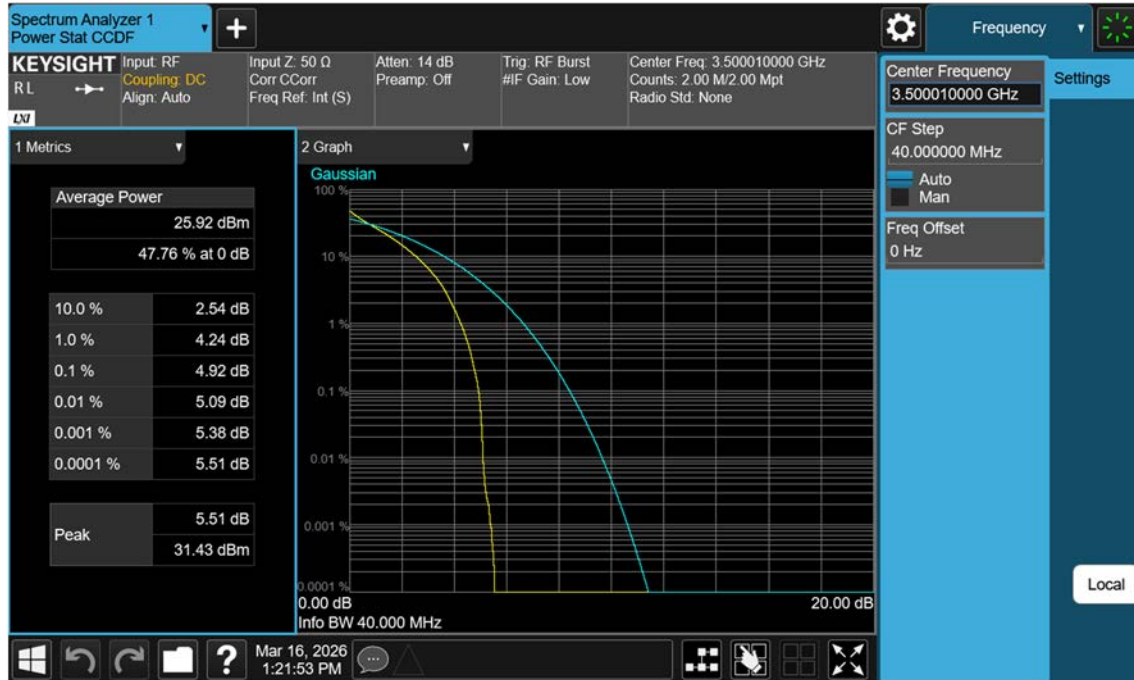
NR n77(78)(3450~3550 MHz)_30 M_PAR_Mid_256QAM_FullRB



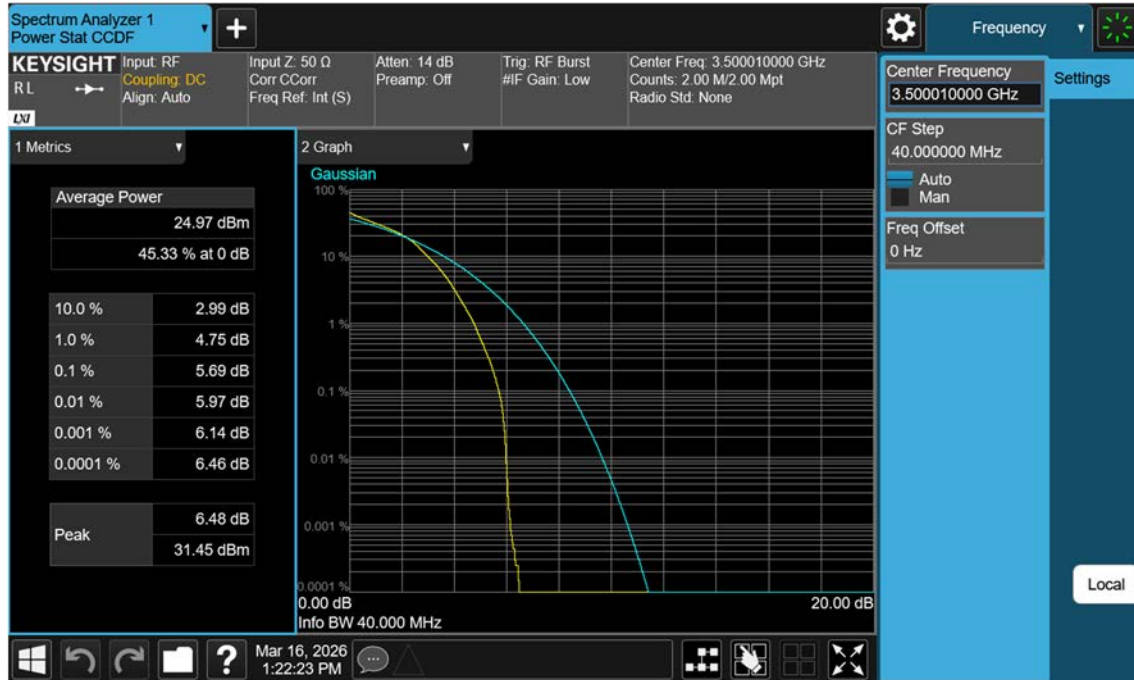
NR n77(78)(3450~3550 MHz)_40 M_PAR_Mid_PI/2 BPSK_FullRB



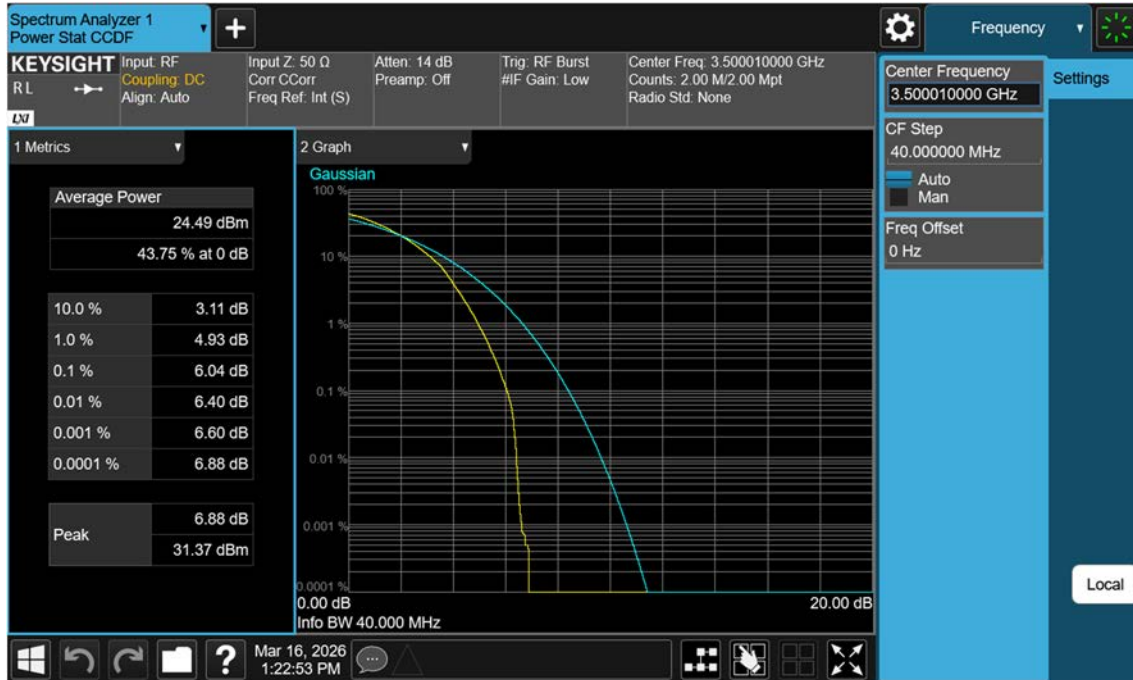
NR n77(78)(3450~3550 MHz)_40 M_PAR_Mid_QPSK_FullRB



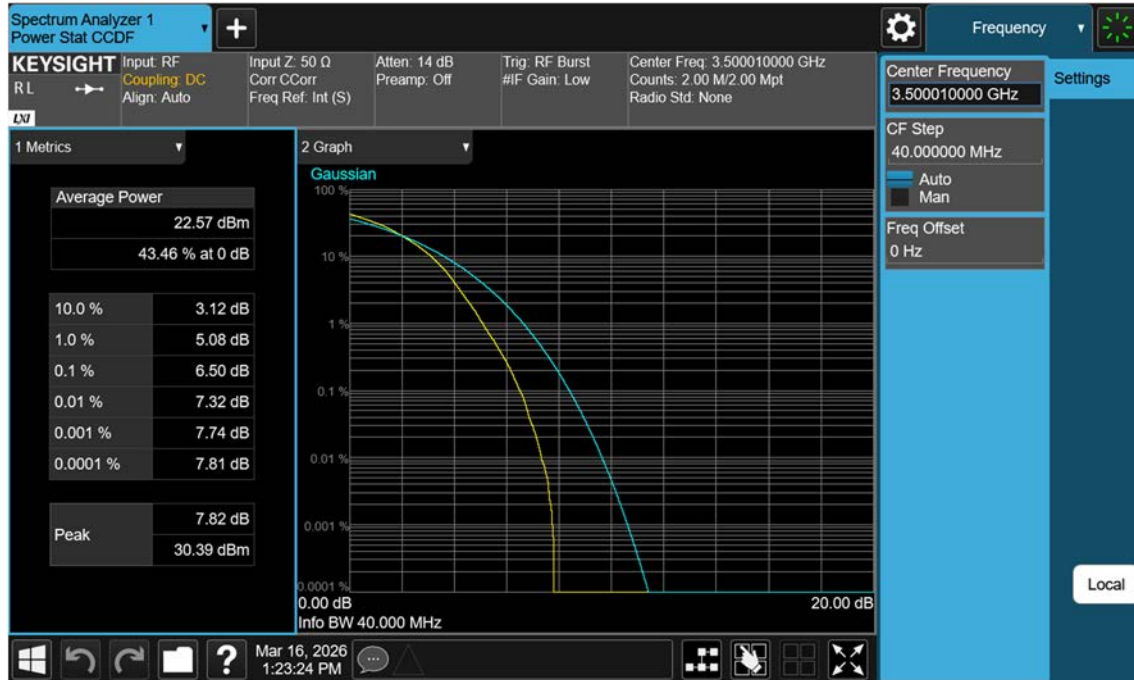
NR n77(78)(3450~3550 MHz)_40 M_PAR_Mid_16QAM_FullRB



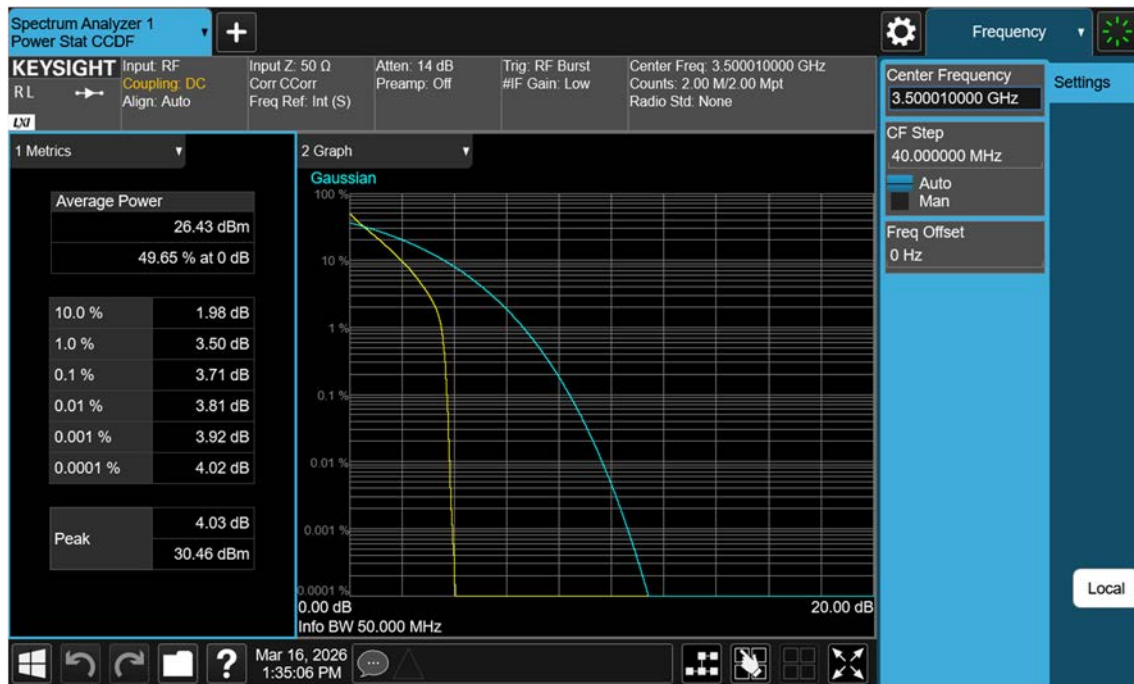
NR n77(78)(3450~3550 MHz)_40 M_PAR_Mid_64QAM_FullRB



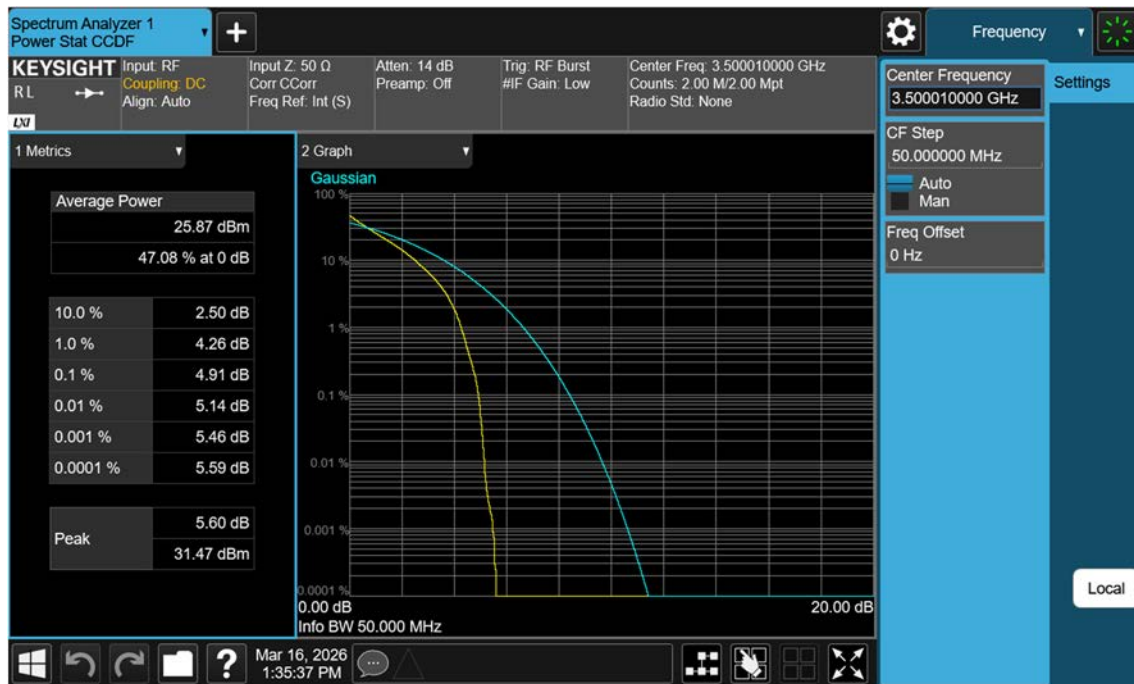
NR n77(78)(3450~3550 MHz)_40 M_PAR_Mid_256QAM_FullRB



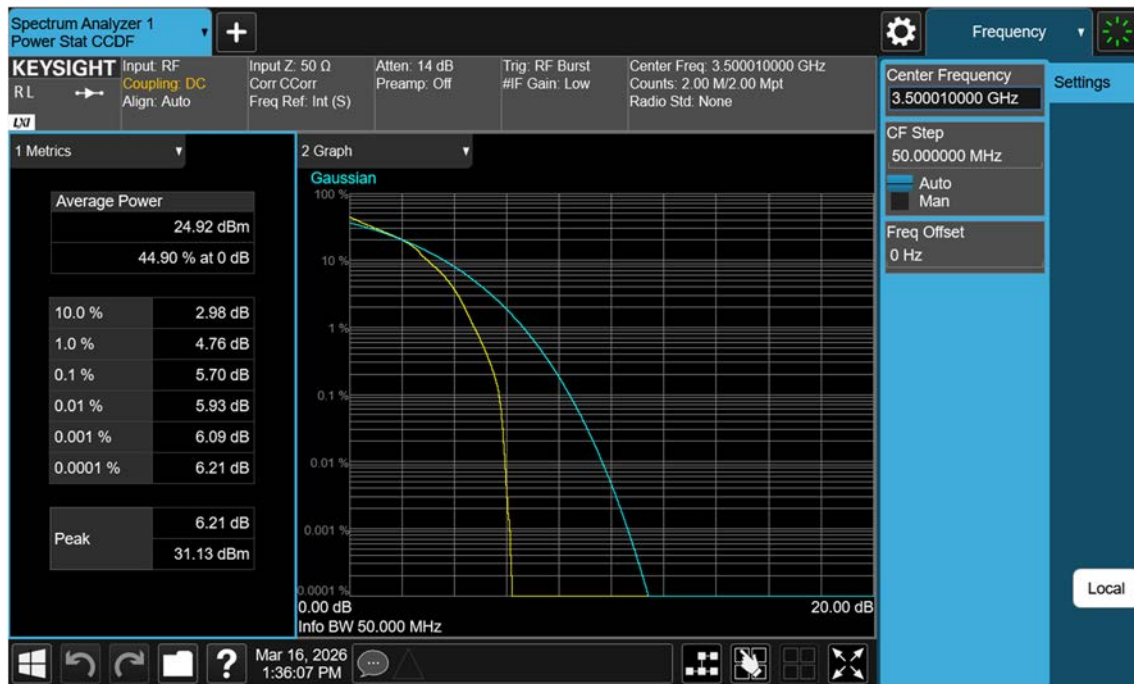
NR n77(78)(3450~3550 MHz)_50 M_PAR_Mid_PI/2 BPSK_FullIRB



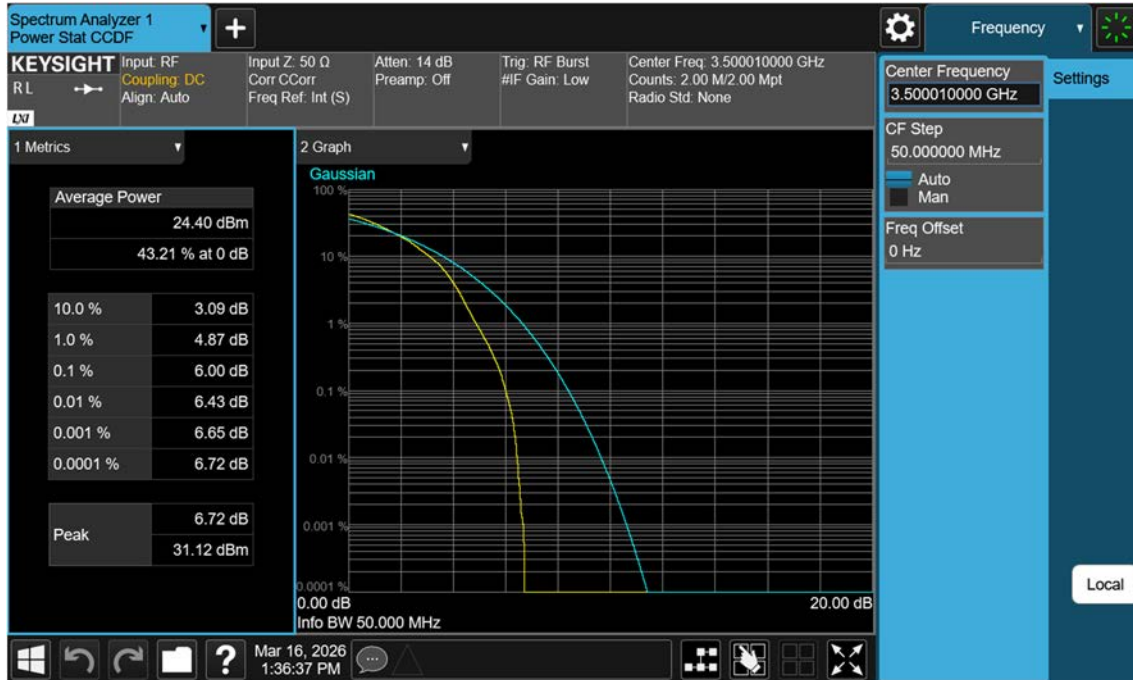
NR n77(78)(3450~3550 MHz)_50 M_PAR_Mid_QPSK_FullRB



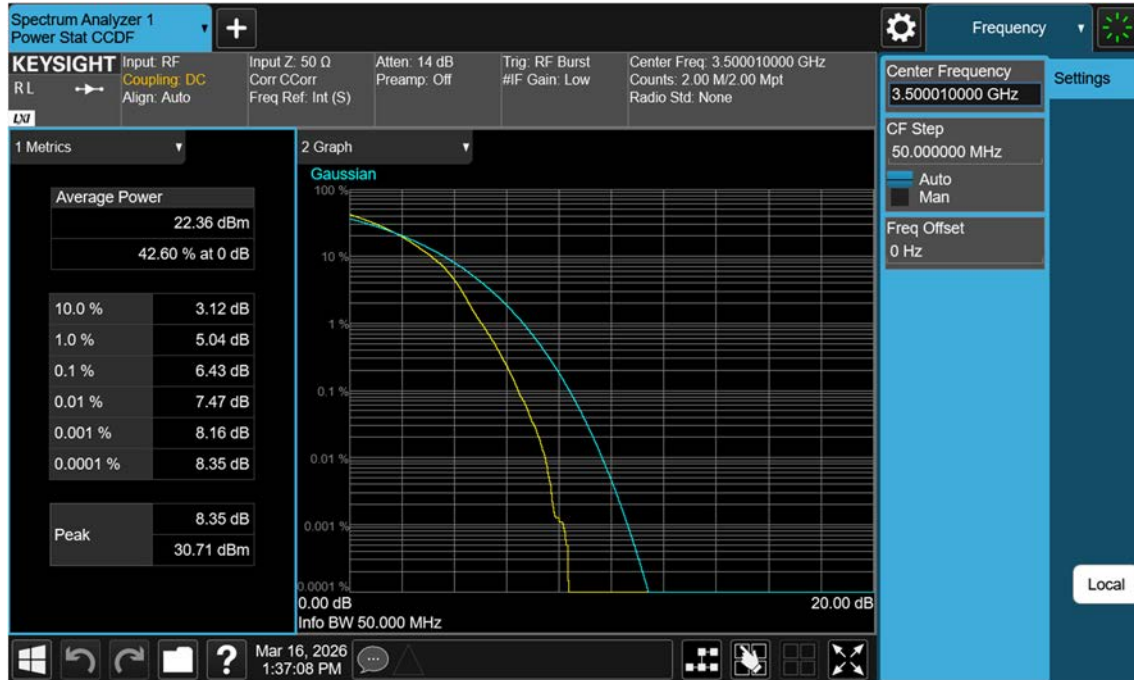
NR n77(78)(3450~3550 MHz)_50 M_PAR_Mid_16QAM_FullRB



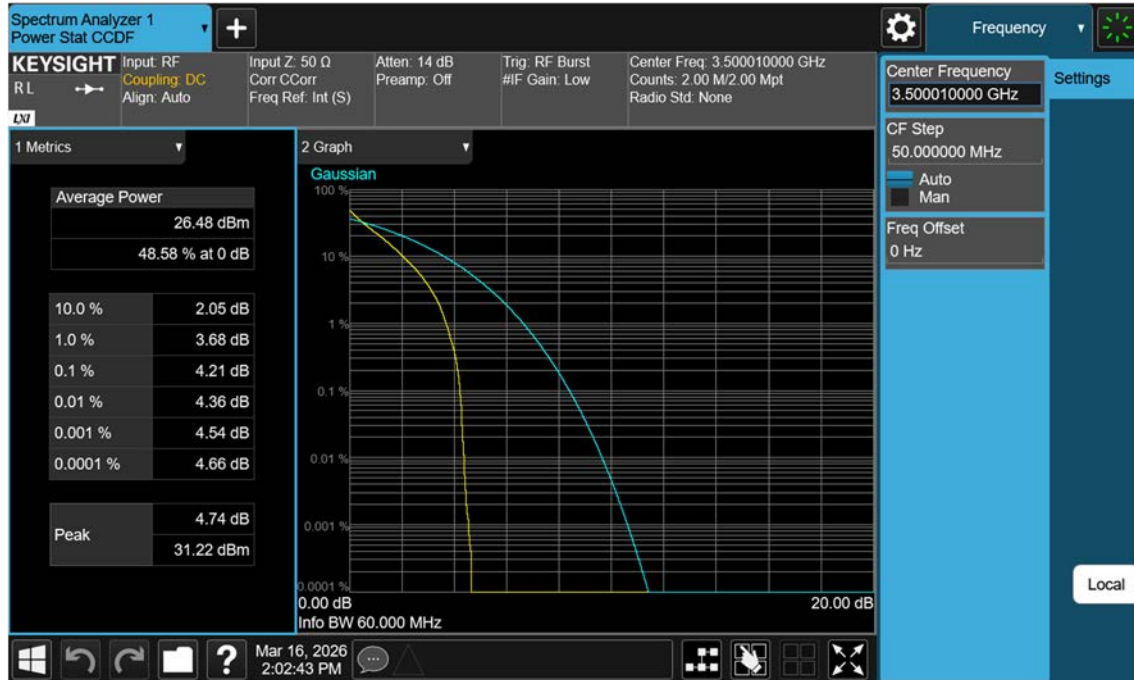
NR n77(78)(3450~3550 MHz)_50 M_PAR_Mid_64QAM_FullRB



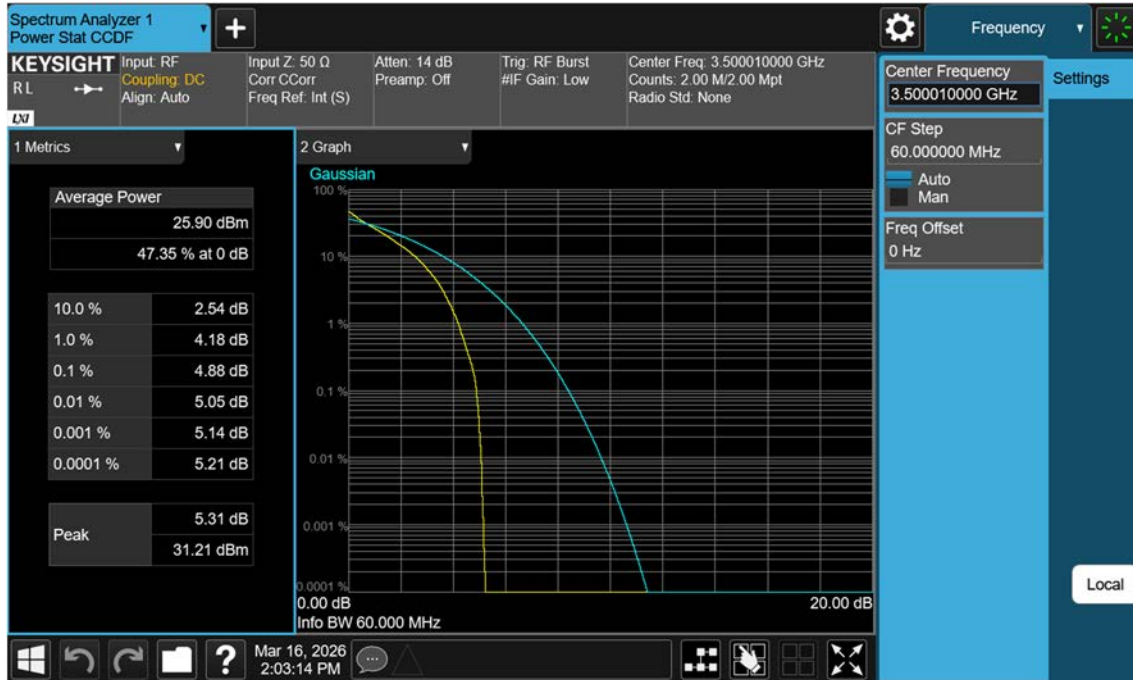
NR n77(78)(3450~3550 MHz)_50 M_PAR_Mid_256QAM_FullRB



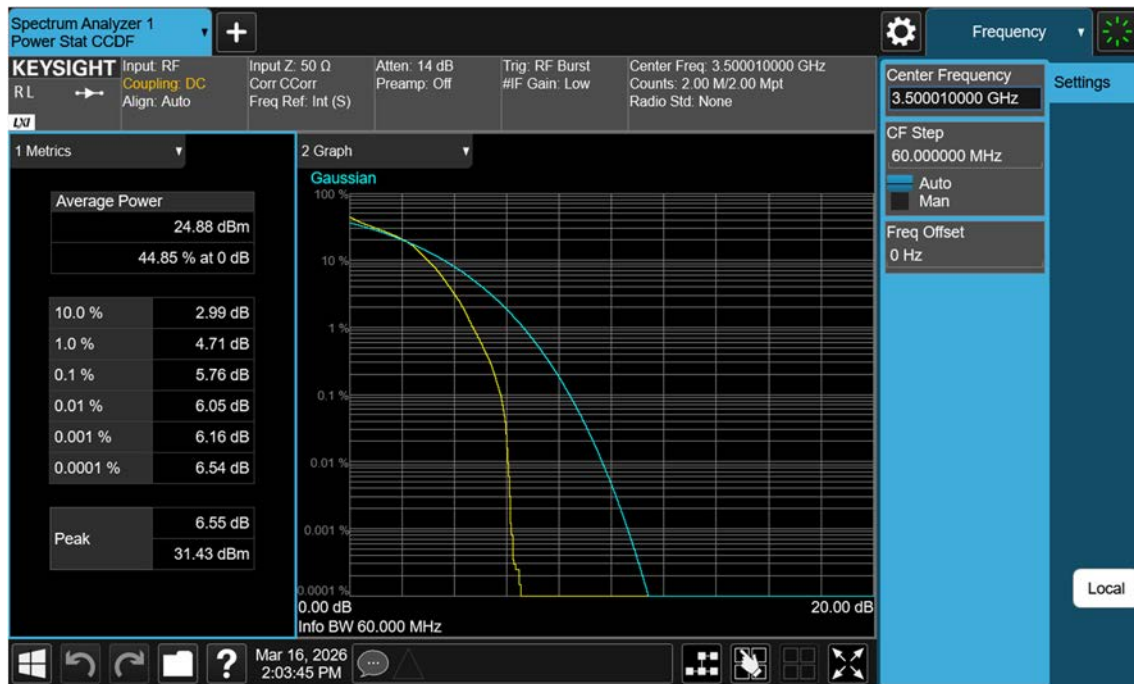
NR n77(78)(3450~3550 MHz)_60 M_PAR_Mid_PI/2 BPSK_FullRB



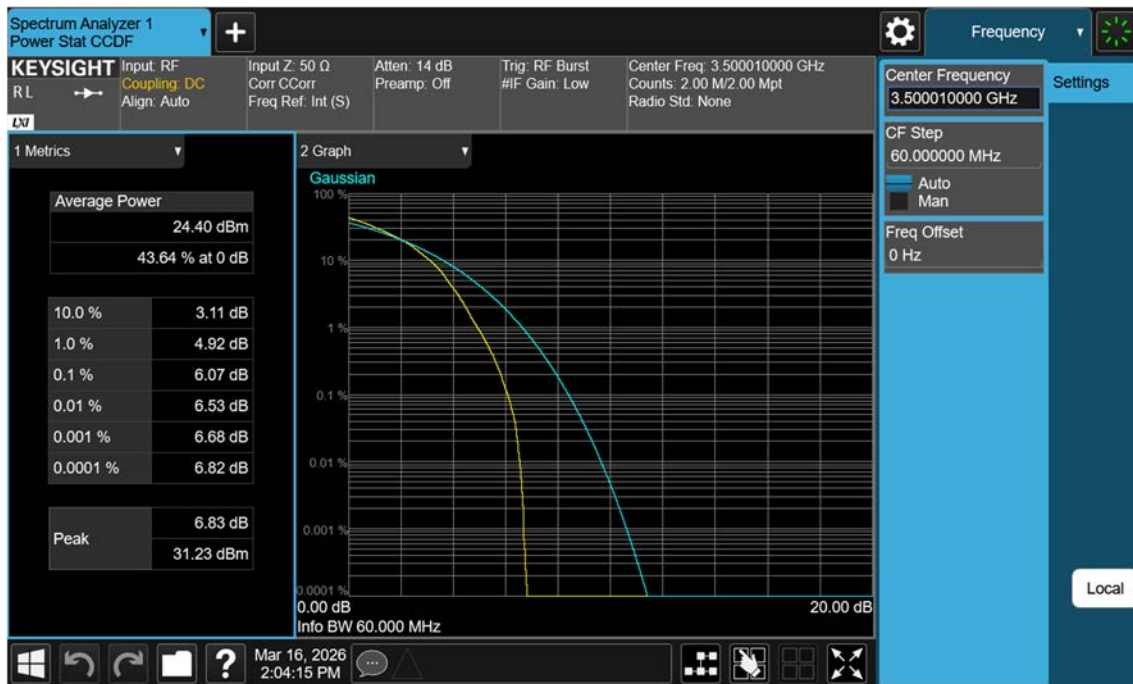
NR n77(78)(3450~3550 MHz)_60 M_PAR_Mid_QPSK_FullRB



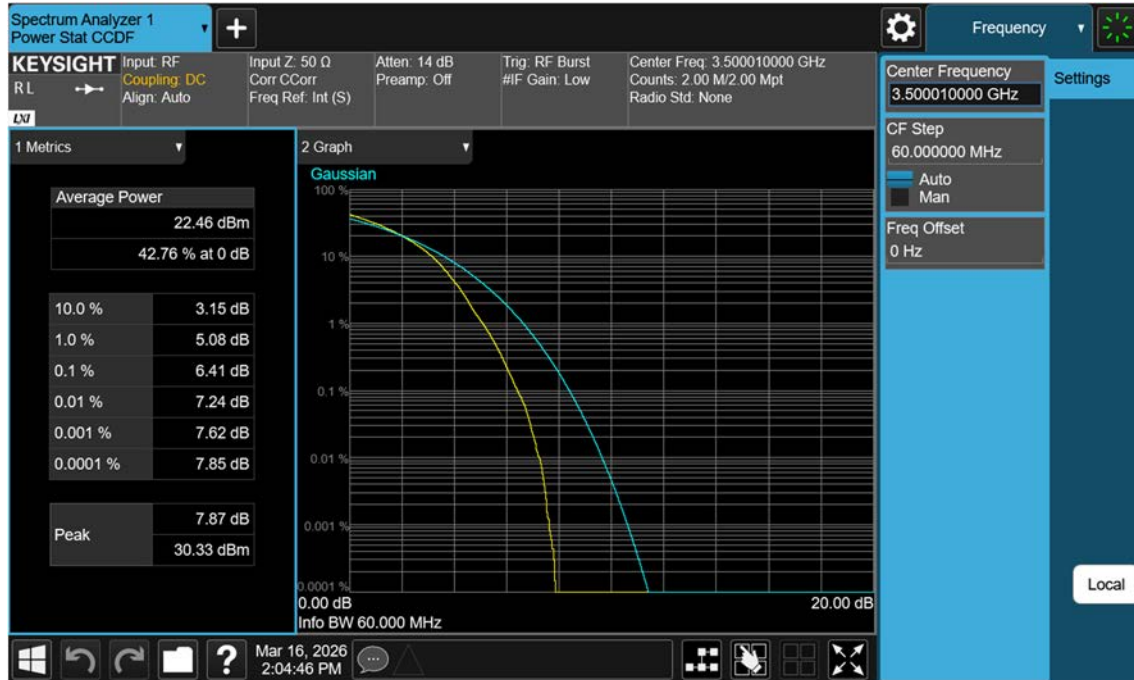
NR n77(78)(3450~3550 MHz)_60 M_PAR_Mid_16QAM_FullRB



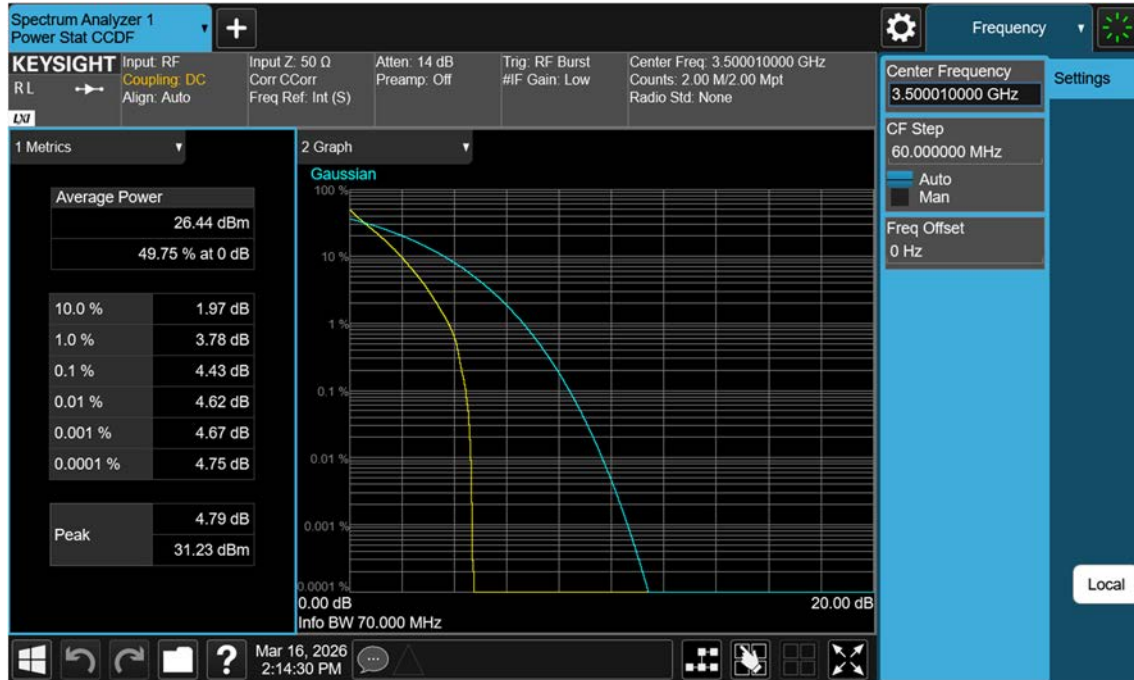
NR n77(78)(3450~3550 MHz)_60 M_PAR_Mid_64QAM_FullRB



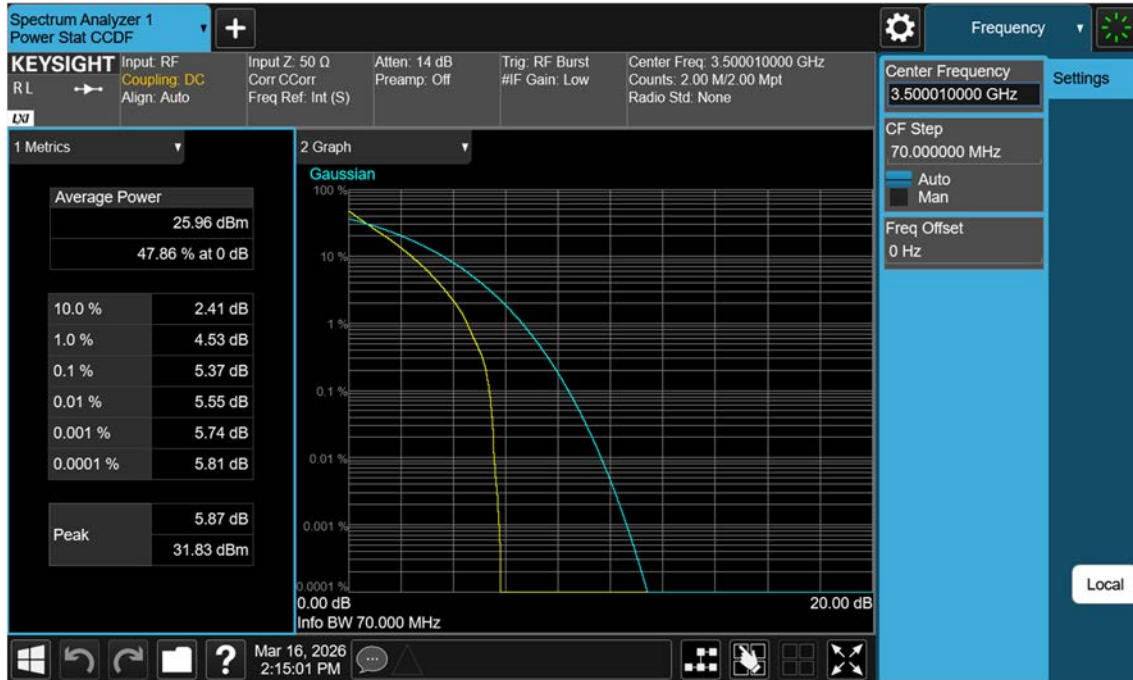
NR n77(78)(3450~3550 MHz)_60 M_PAR_Mid_256QAM_FullRB



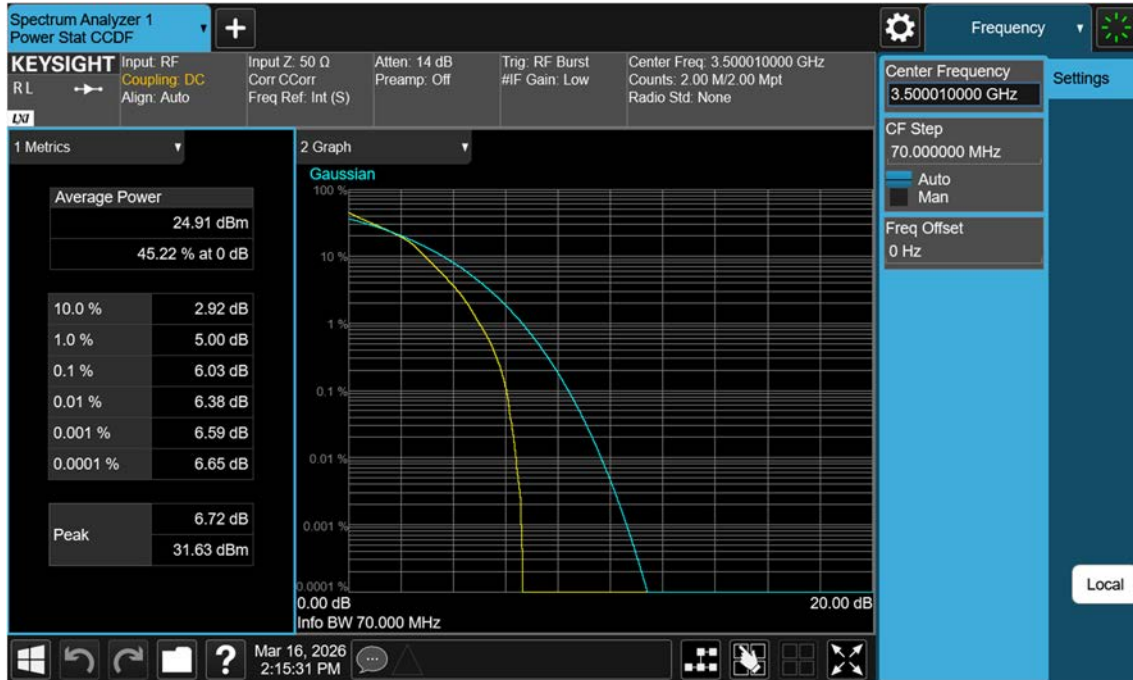
NR n77(78)(3450~3550 MHz)_70 M_PAR_Mid_PI/2 BPSK_FullRB



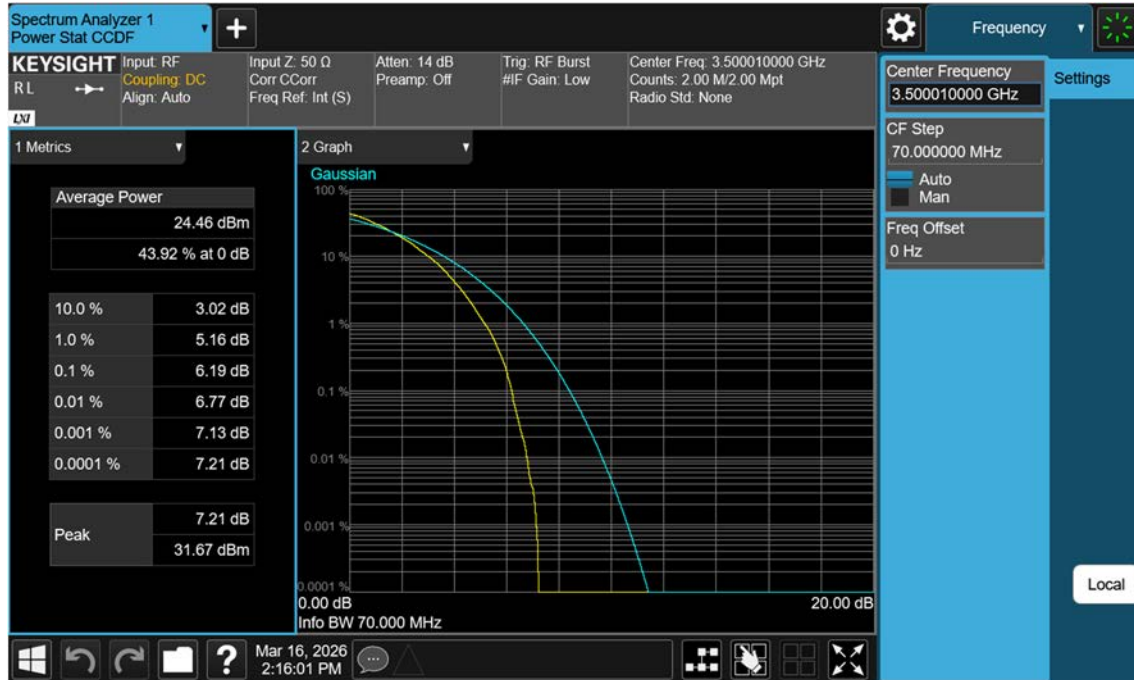
NR n77(78)(3450~3550 MHz)_70 M_PAR_Mid_QPSK_FullRB



NR n77(78)(3450~3550 MHz)_70 M_PAR_Mid_16QAM_FullRB



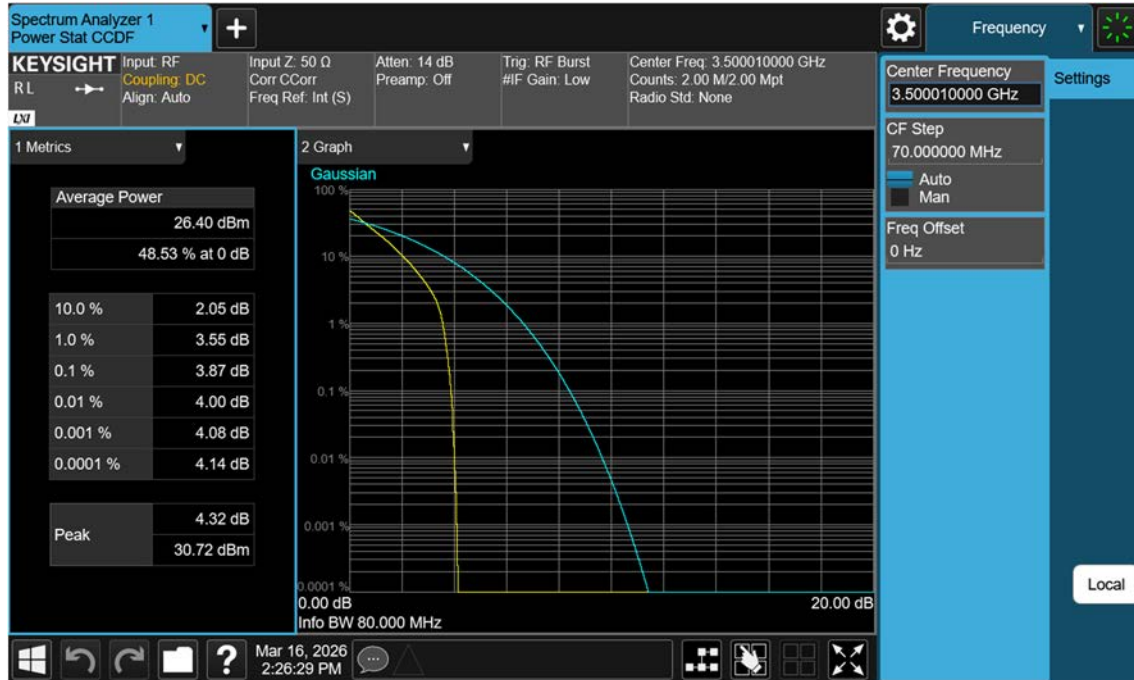
NR n77(78)(3450~3550 MHz)_70 M_PAR_Mid_64QAM_FullRB



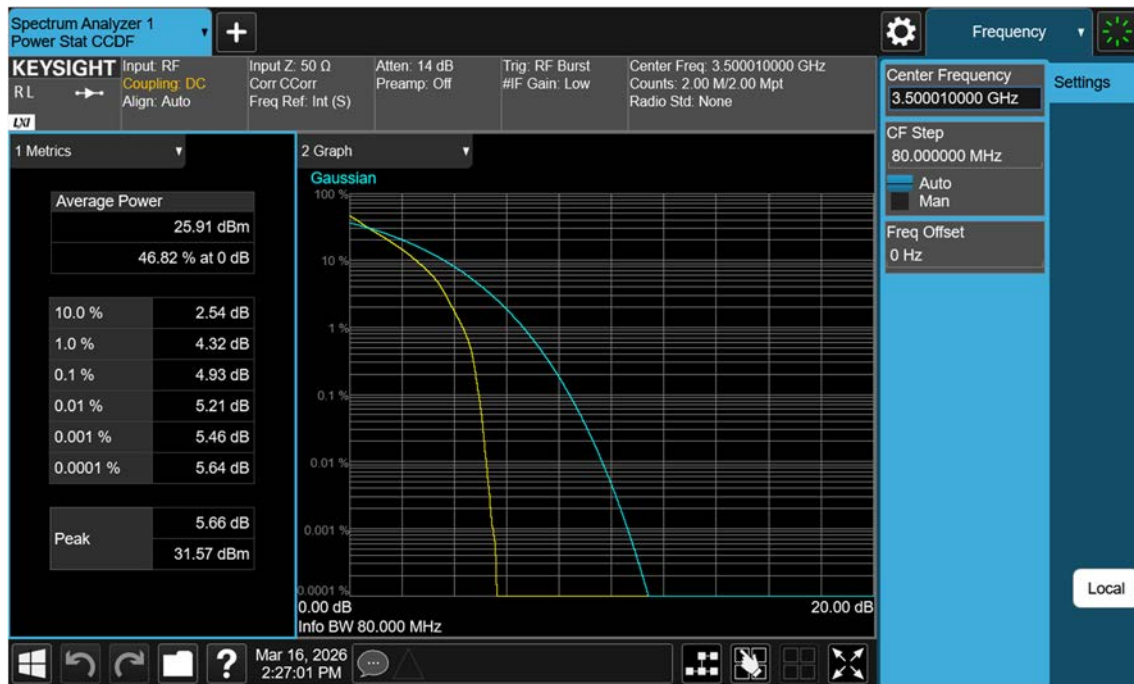
NR n77(78)(3450~3550 MHz)_70 M_PAR_Mid_256QAM_FullRB



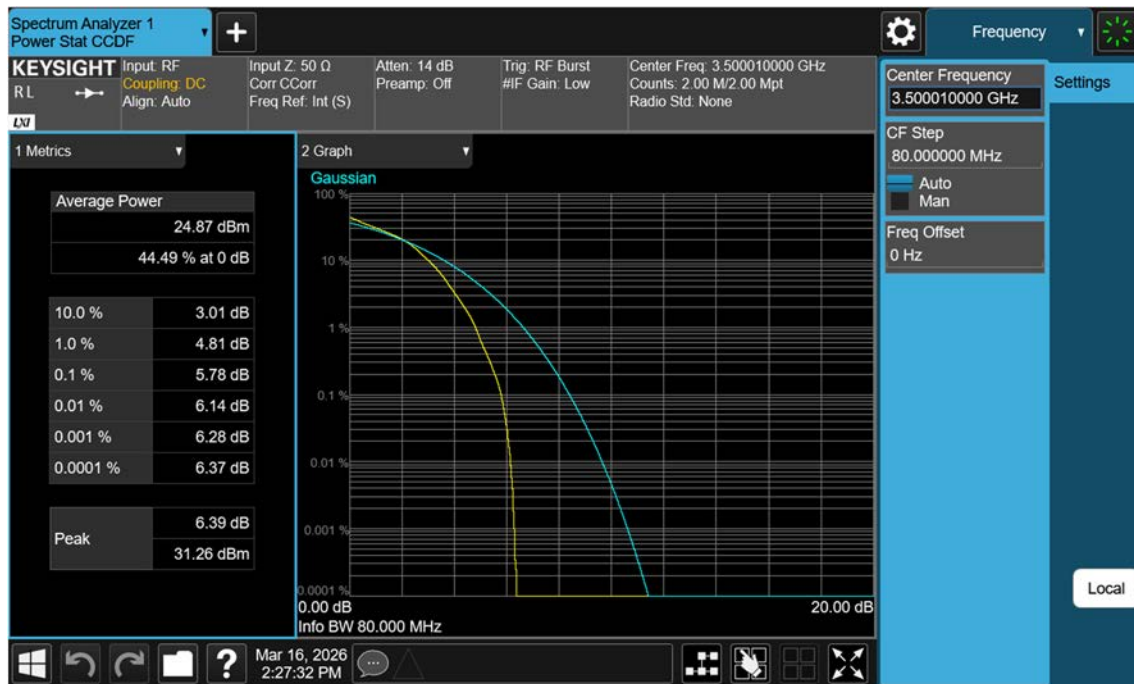
NR n77(78)(3450~3550 MHz)_80 M_PAR_Mid_PI/2 BPSK_FullIRB



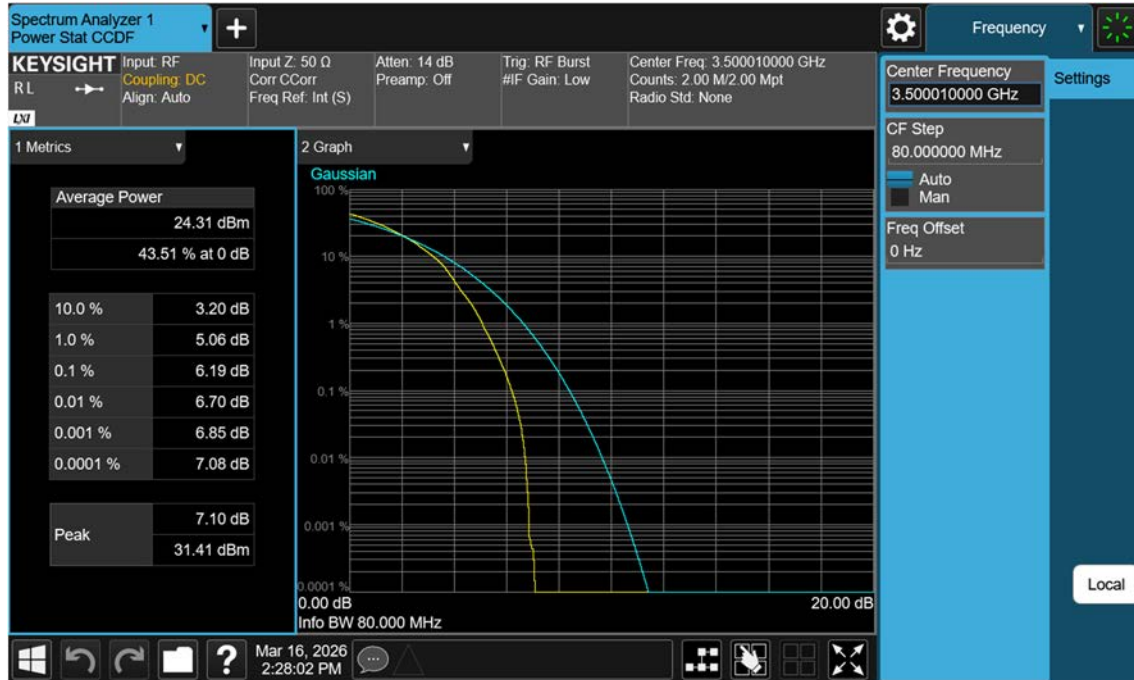
NR n77(78)(3450~3550 MHz)_80 M_PAR_Mid_QPSK_FullRB



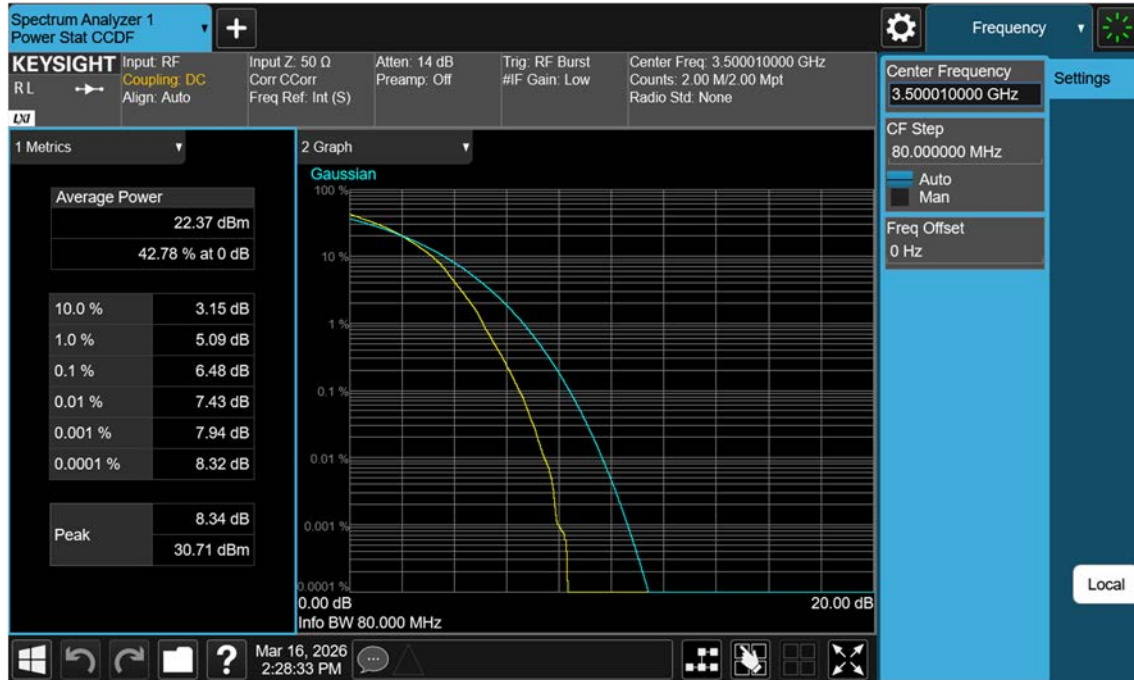
NR n77(78)(3450~3550 MHz)_80 M_PAR_Mid_16QAM_FullRB



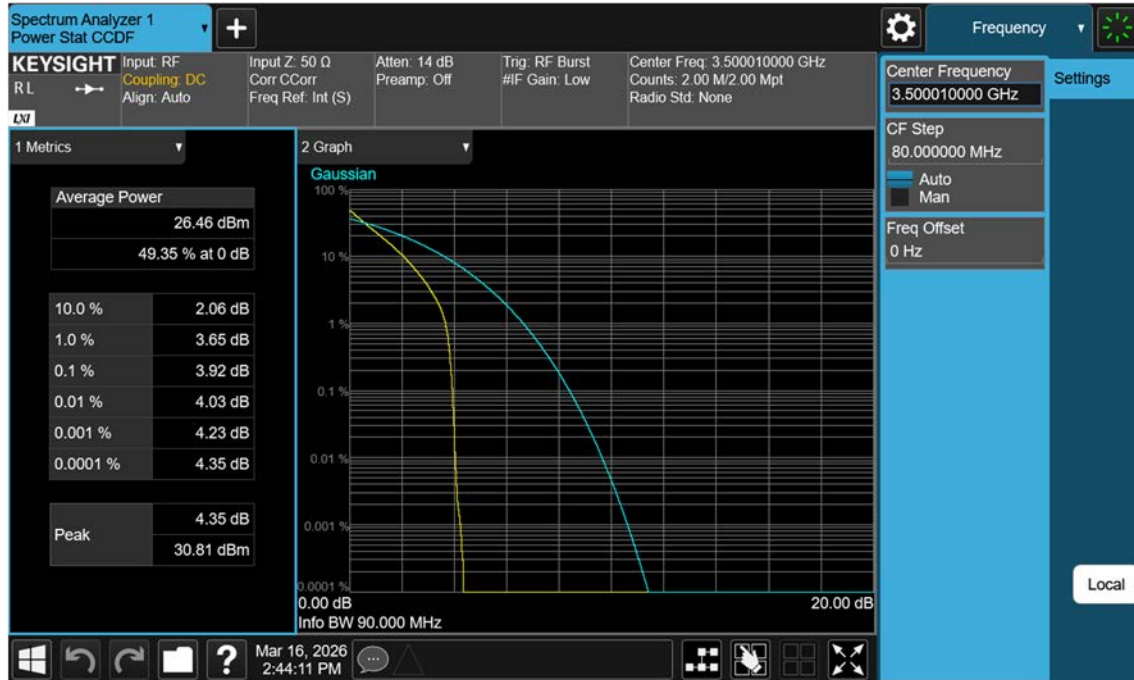
NR n77(78)(3450~3550 MHz)_80 M_PAR_Mid_64QAM_FullRB



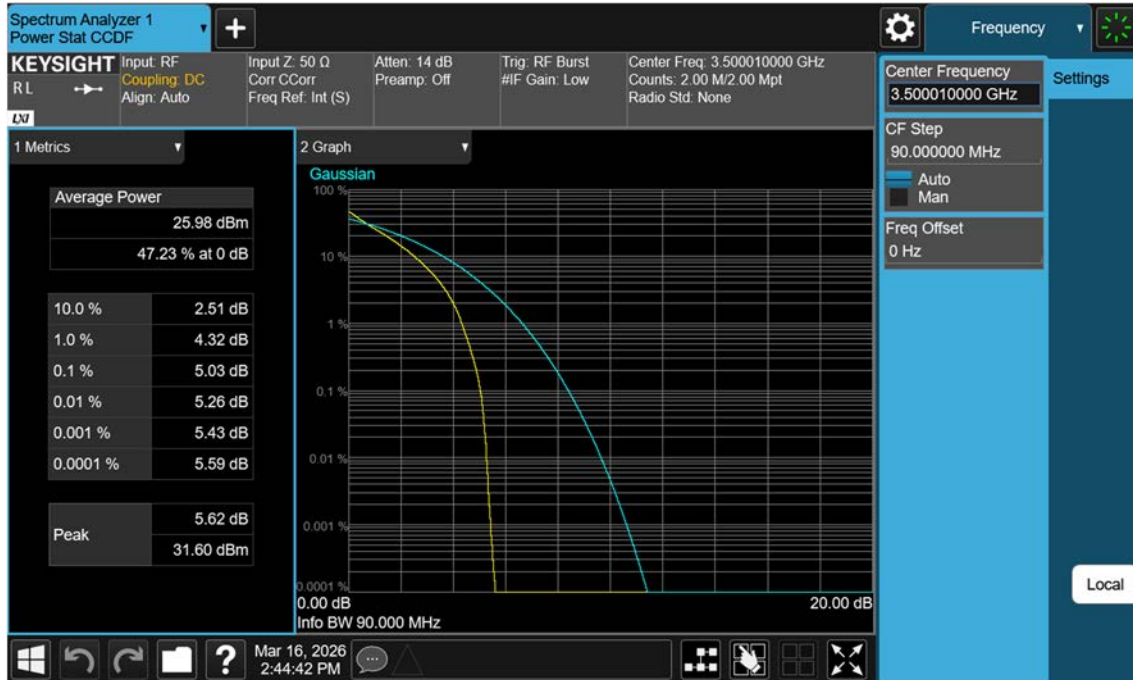
NR n77(78)(3450~3550 MHz)_80 M_PAR_Mid_256QAM_FullRB



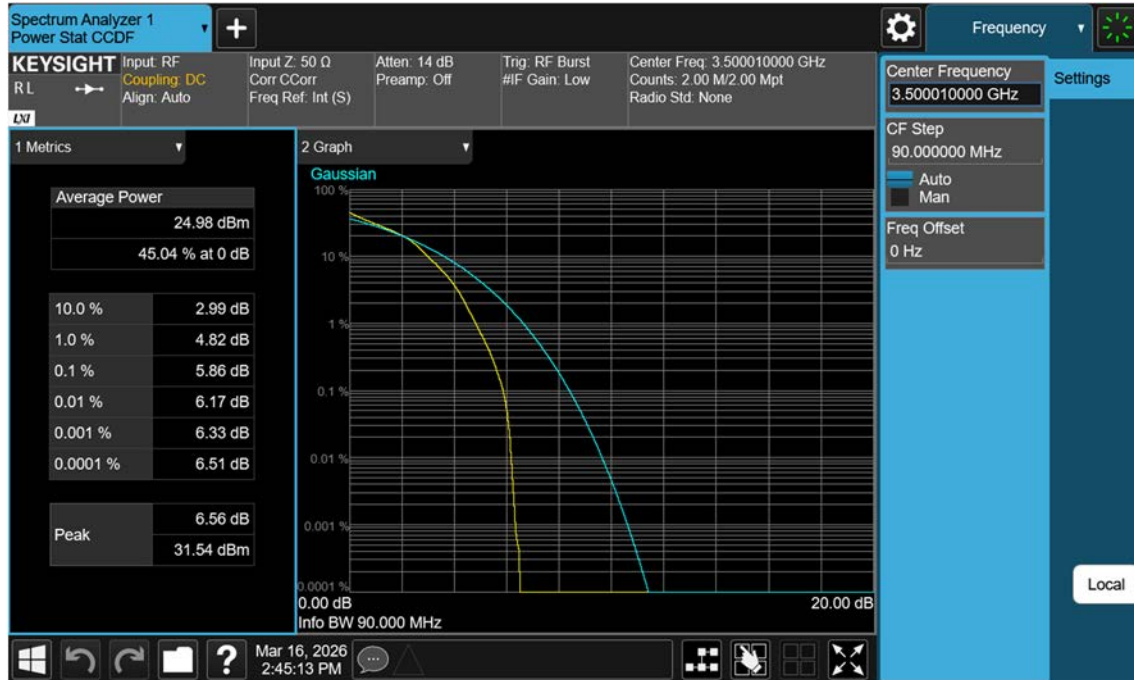
NR n77(78)(3450~3550 MHz)_90 M_PAR_Mid_PI/2 BPSK_FullIRB



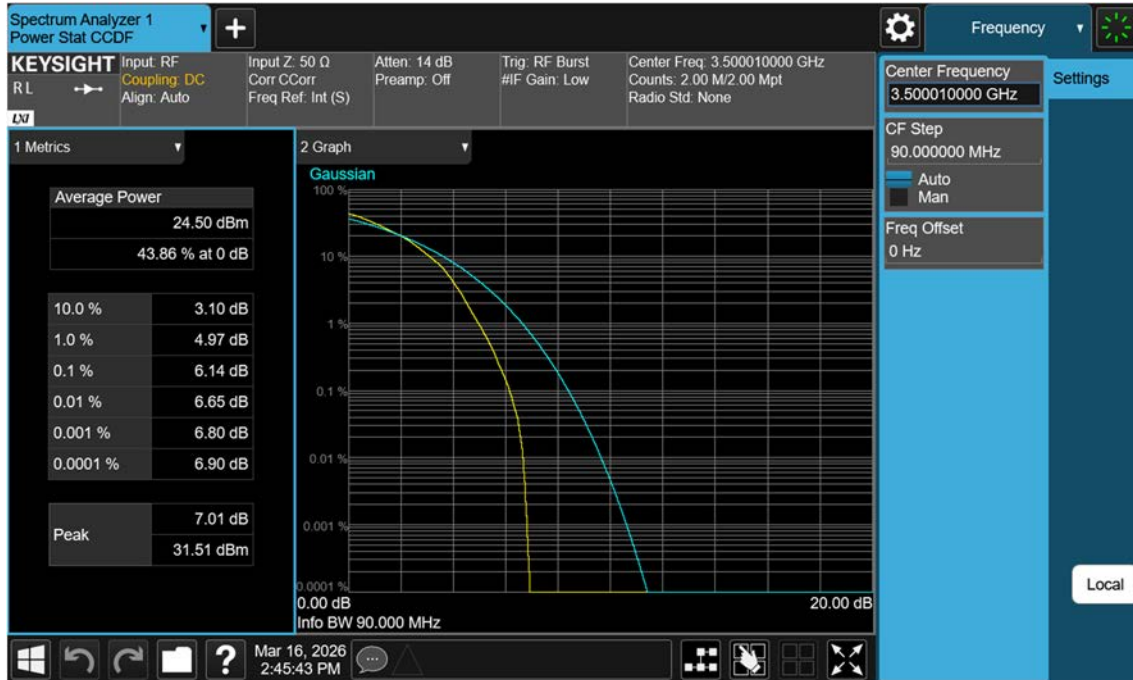
NR n77(78)(3450~3550 MHz)_90 M_PAR_Mid_QPSK_FullRB



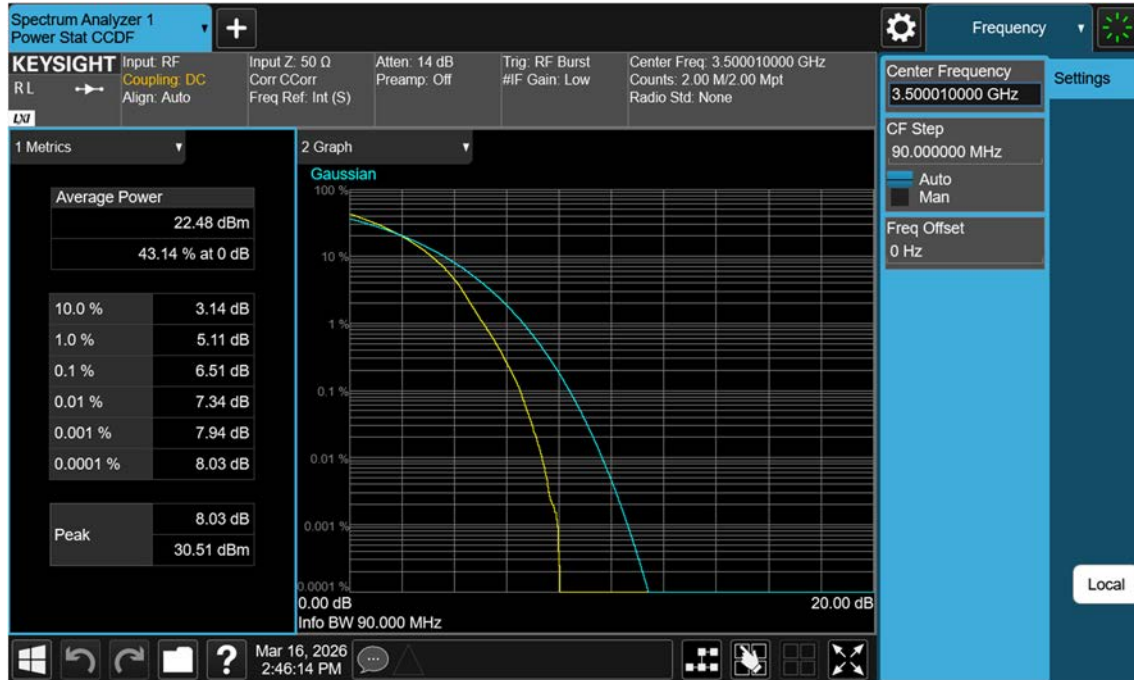
NR n77(78)(3450~3550 MHz)_90 M_PAR_Mid_16QAM_FullRB



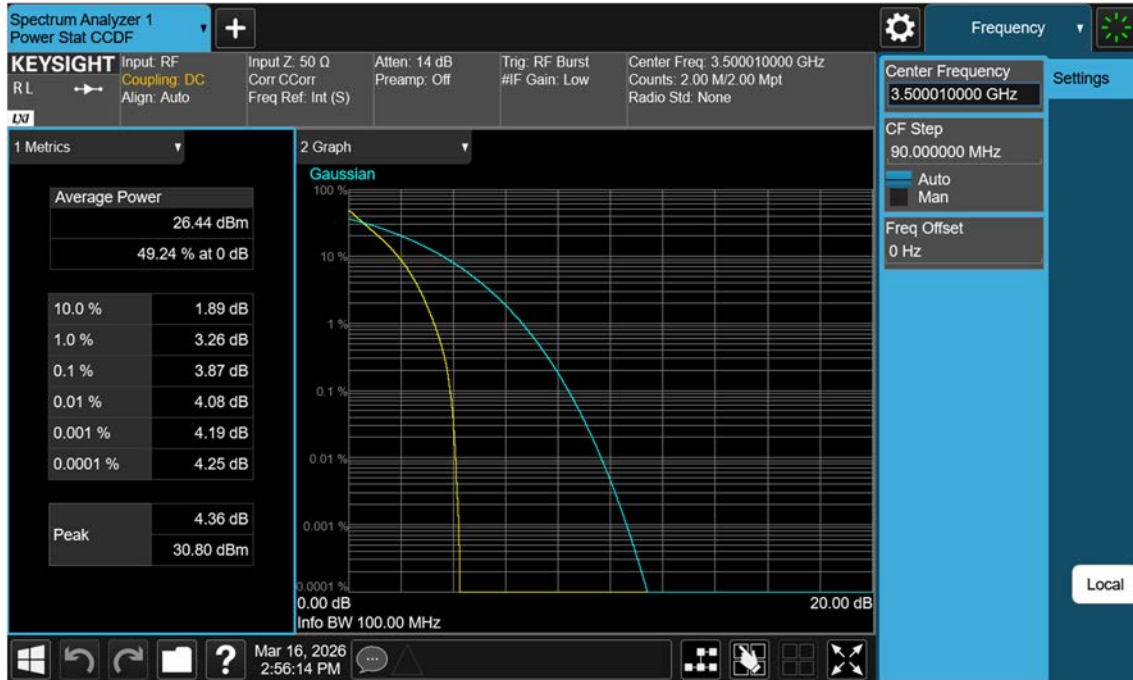
NR n77(78)(3450~3550 MHz)_90 M_PAR_Mid_64QAM_FullRB



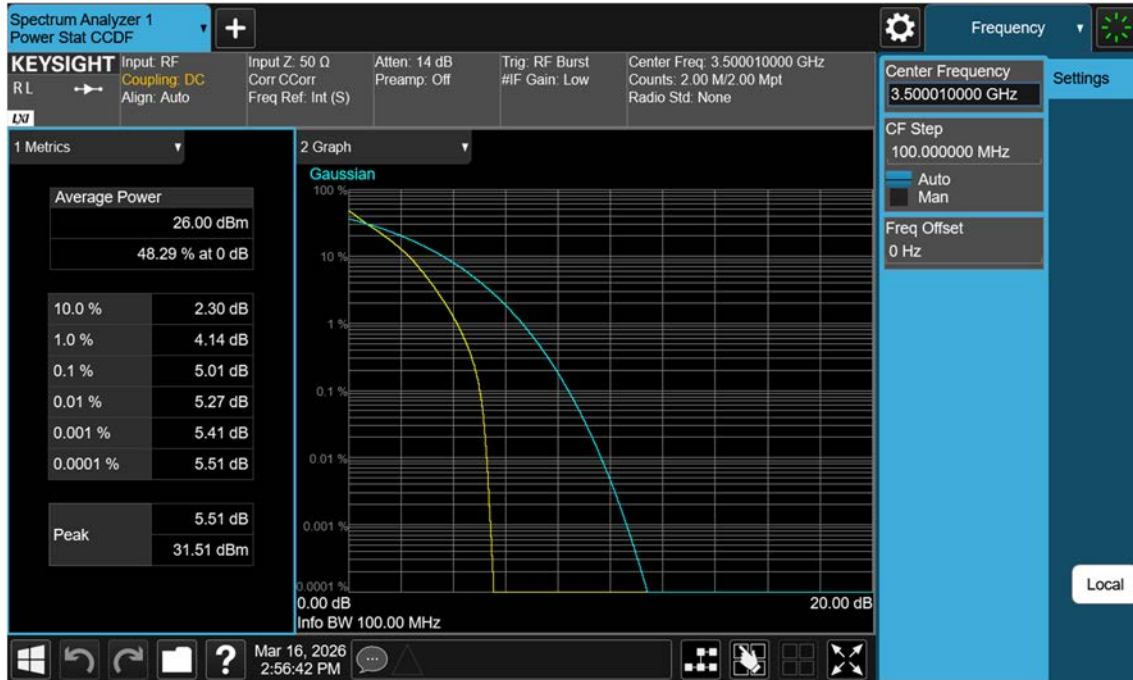
NR n77(78)(3450~3550 MHz)_90 M_PAR_Mid_256QAM_FullRB



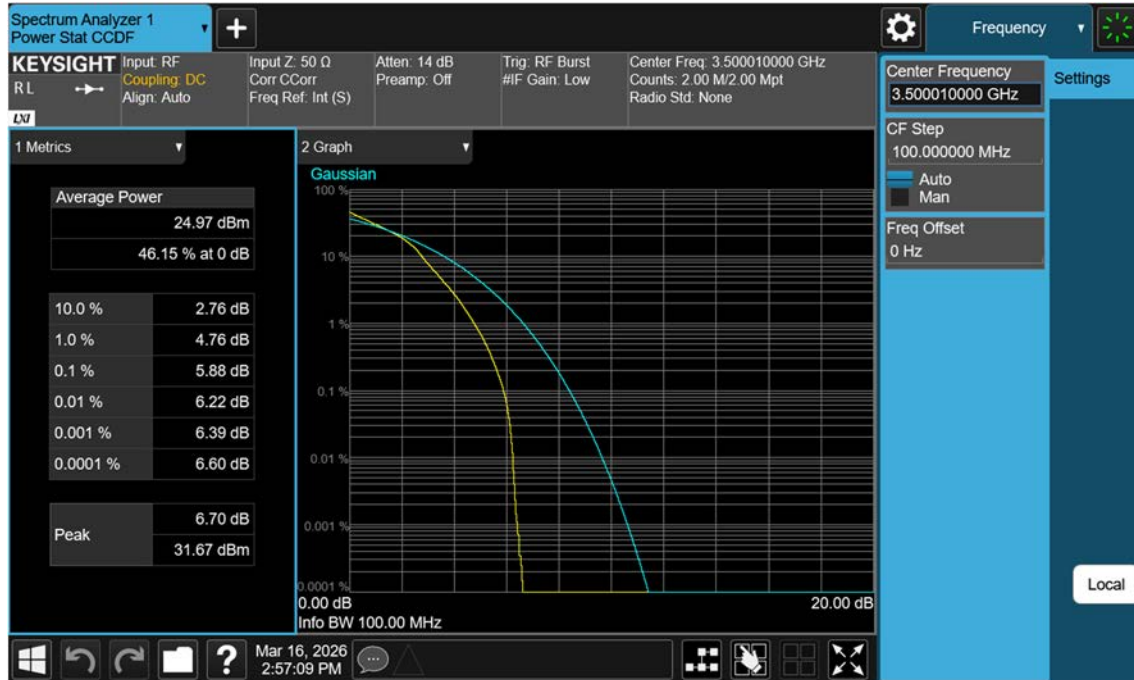
NR n77(78)(3450~3550 MHz)_100 M_PAR_Mid_PI/2 BPSK_FullRB



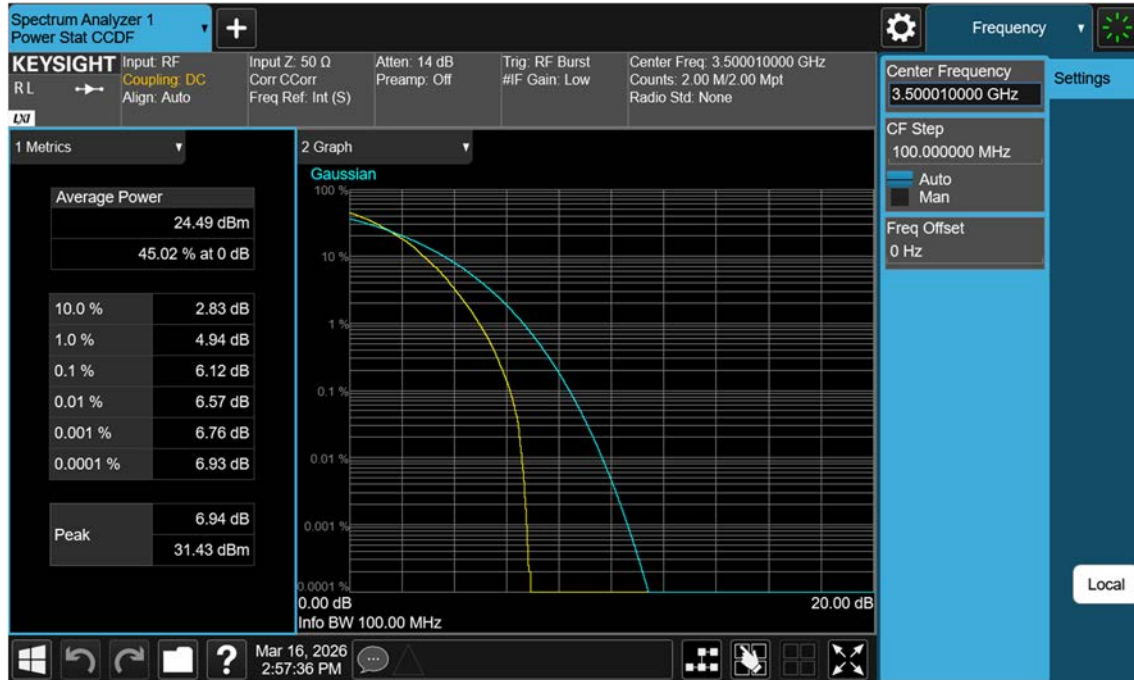
NR n77(78)(3450~3550 MHz)_100 M_PAR_Mid_QPSK_FullRB



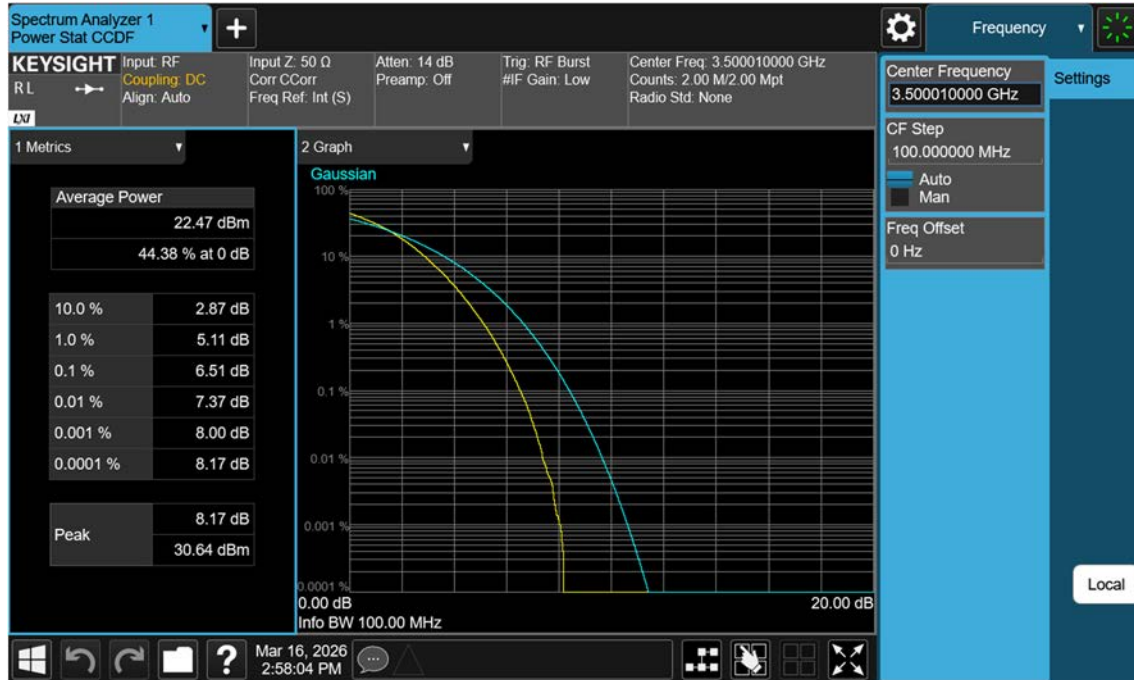
NR n77(78)(3450~3550 MHz)_100 M_PAR_Mid_16QAM_FullRB



NR n77(78)(3450~3550 MHz)_100 M_PAR_Mid_64QAM_FullRB

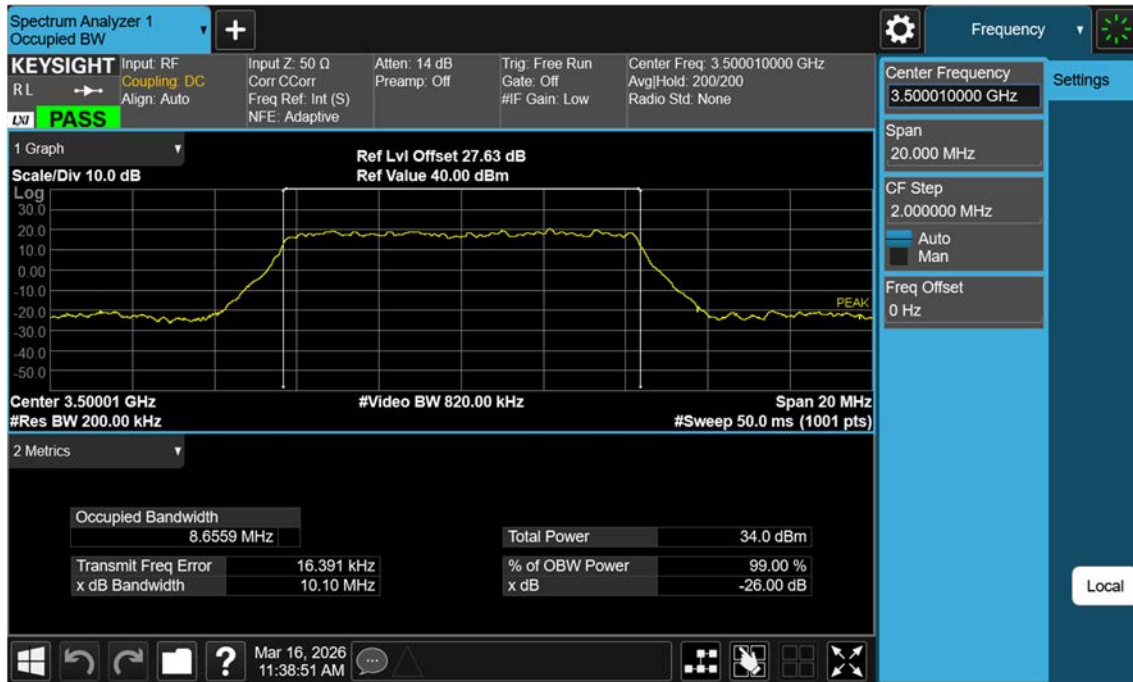


NR n77(78)(3450~3550 MHz)_100 M_PAR_Mid_256QAM_FullRB

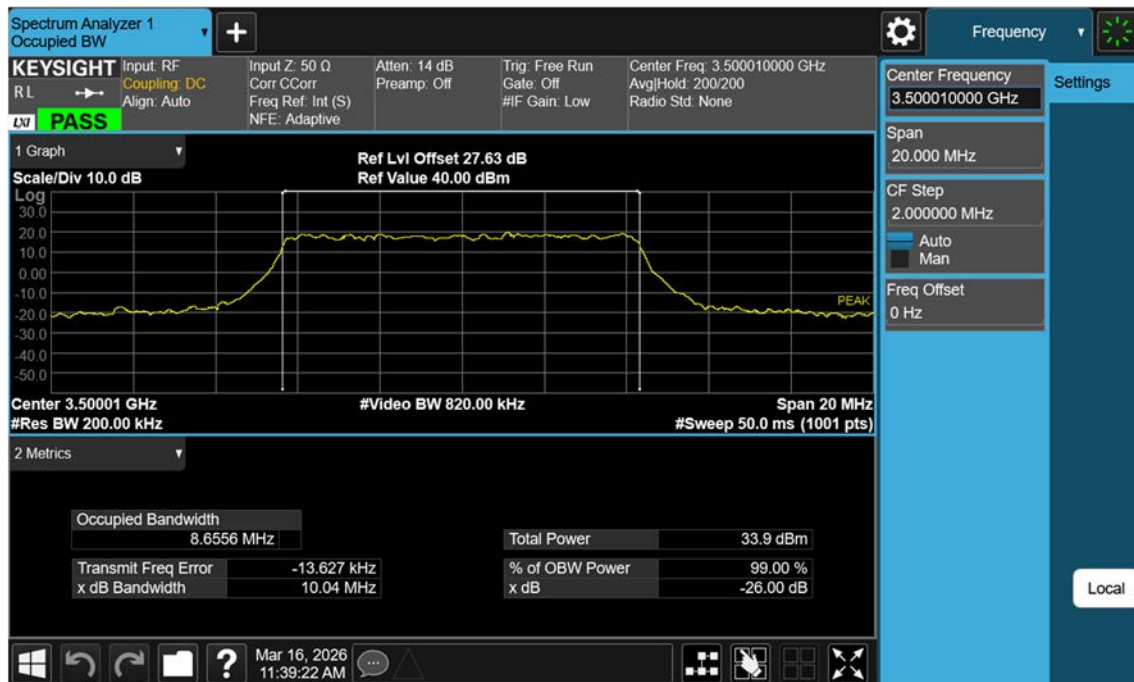


10.2 OCCUPIED BANDWIDTH

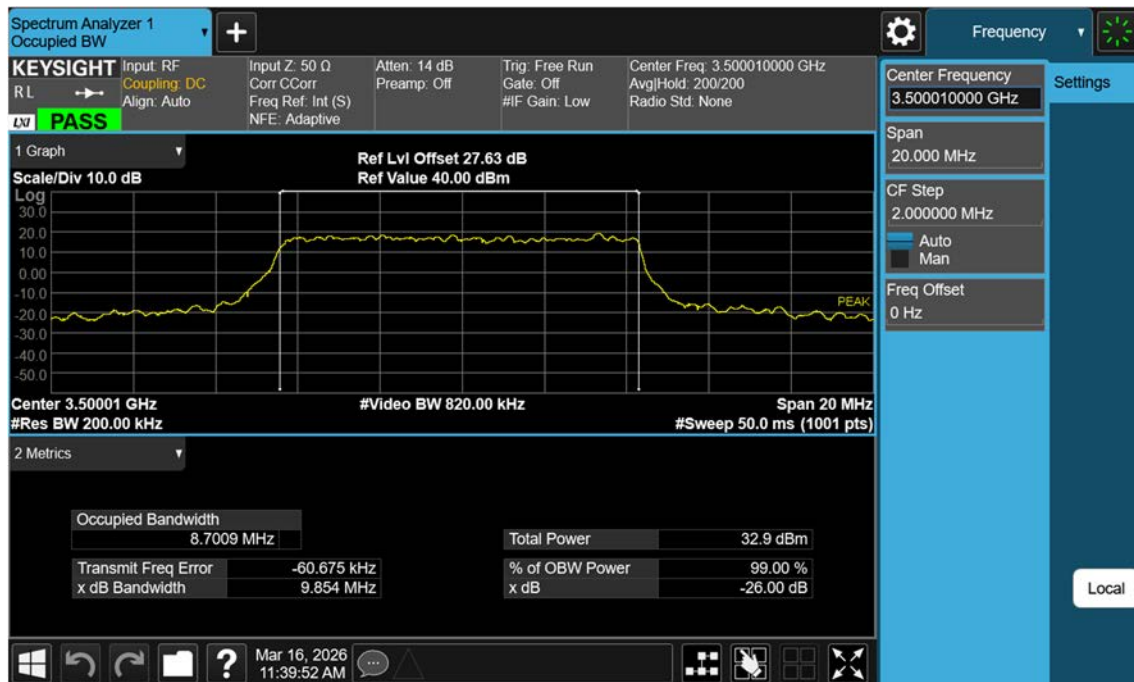
NR n77(78)(3450~3550 MHz)_10 M_OBW_Mid_PI/2 BPSK_FullRB



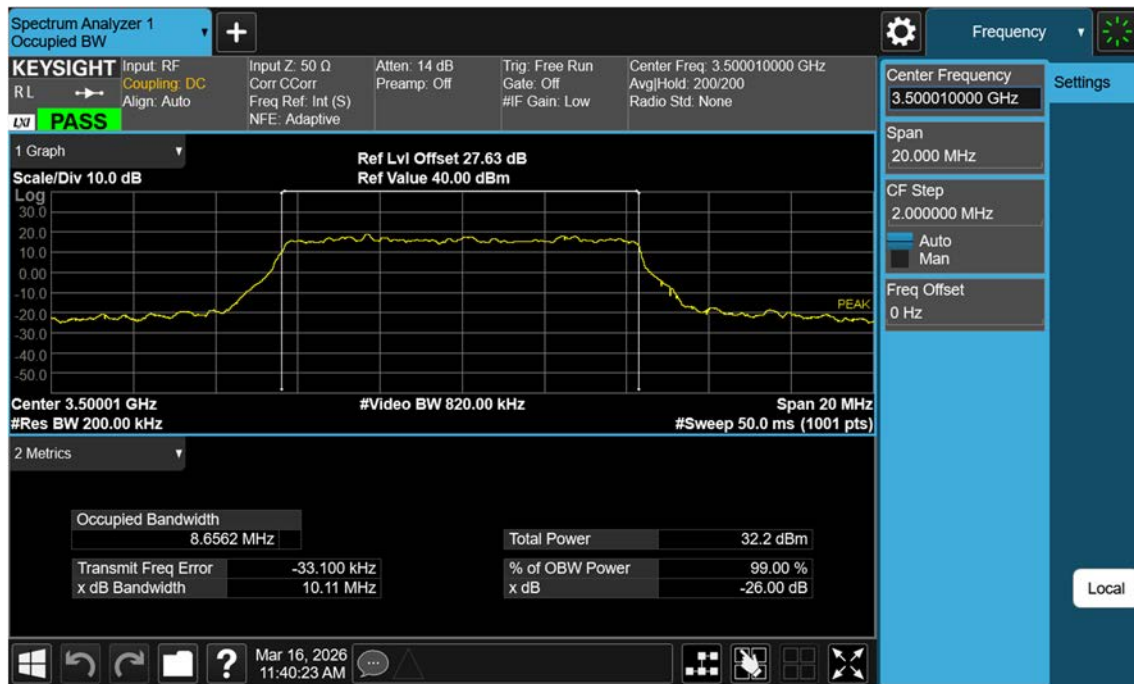
NR n77(78)(3450~3550 MHz)_10 M_OBW_Mid_QPSK_FullRB



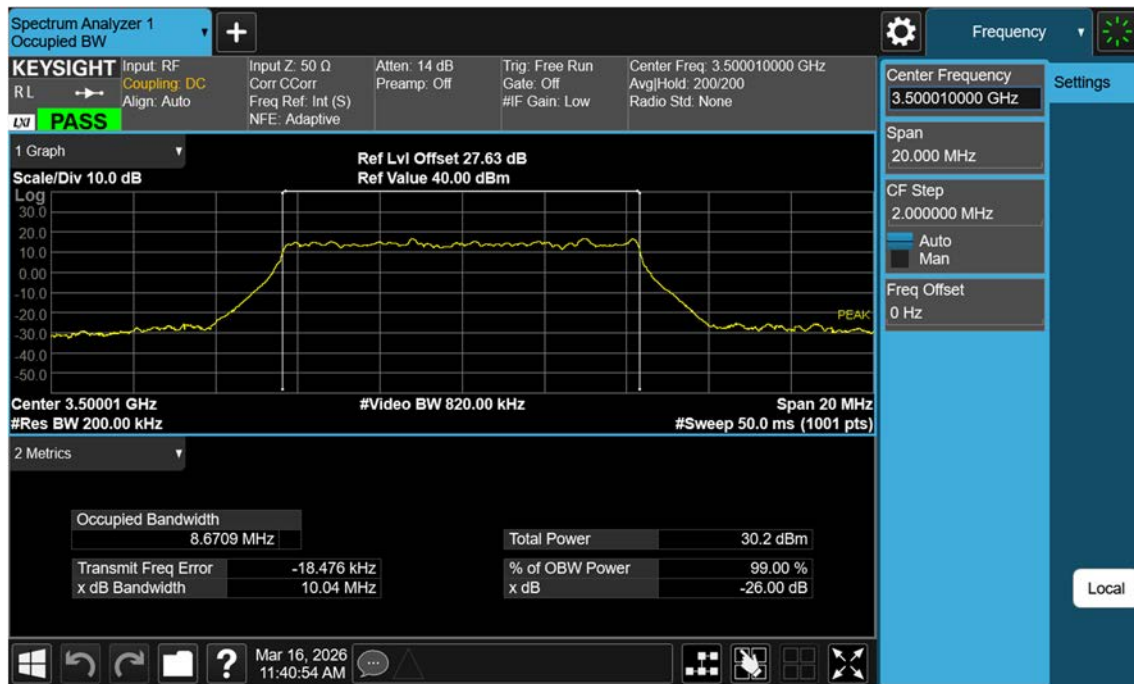
NR n77(78)(3450~3550 MHz)_10 M_OBW_Mid_16QAM_FullRB



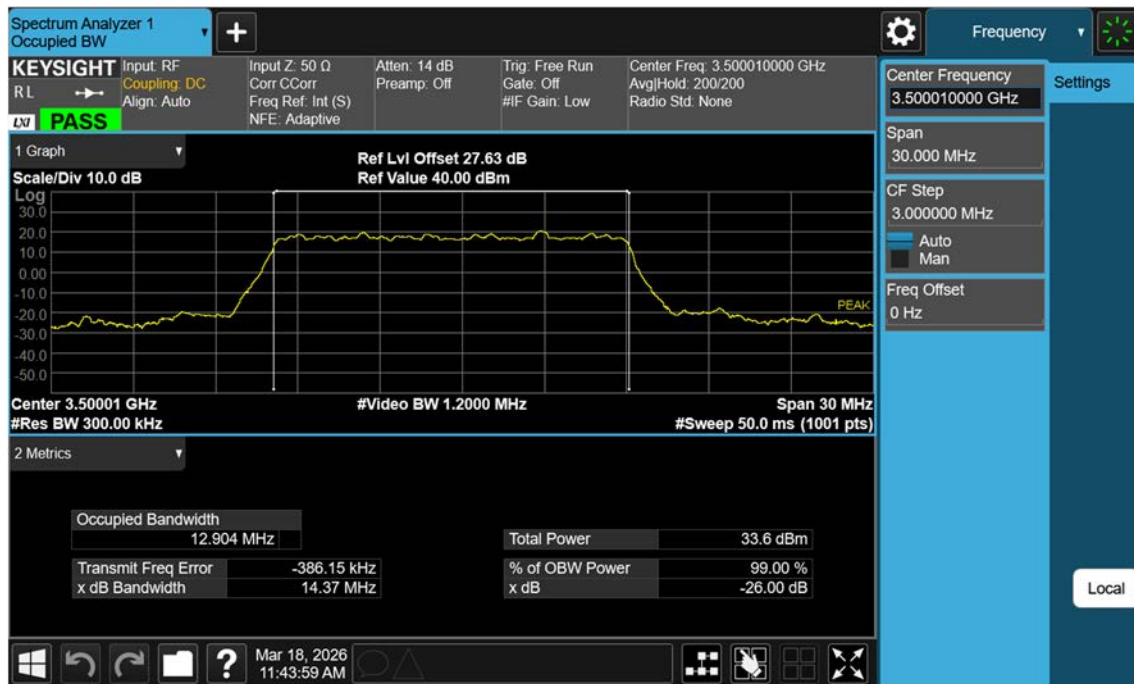
NR n77(78)(3450~3550 MHz)_10 M_OBW_Mid_64QAM_FullRB



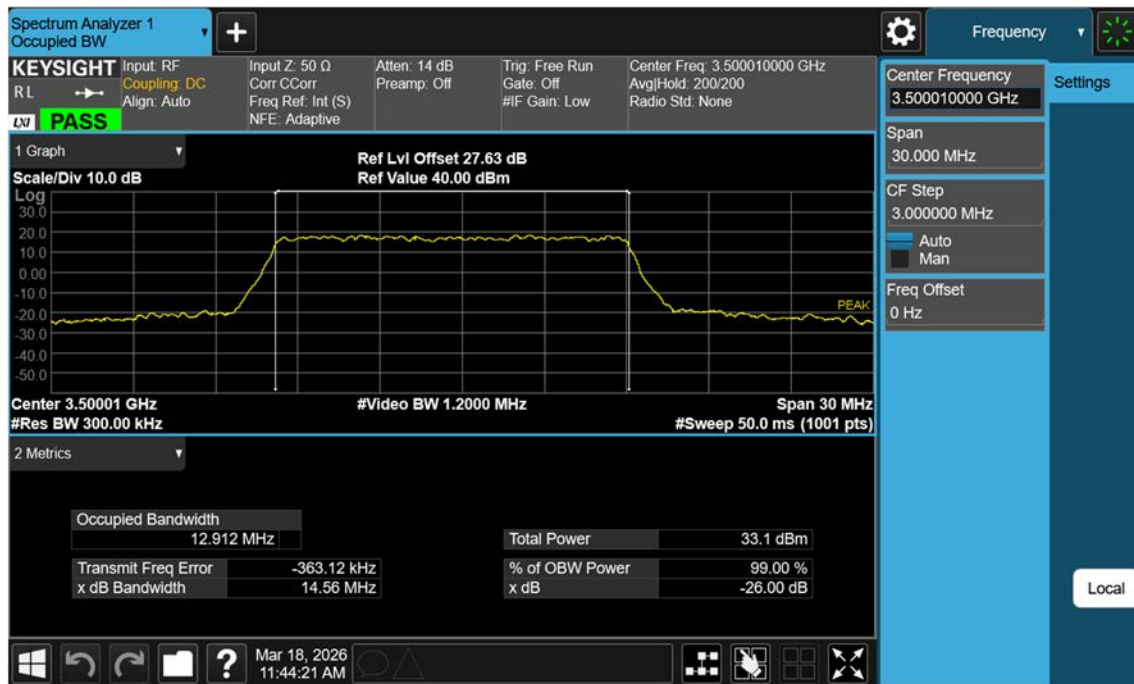
NR n77(78)(3450~3550 MHz)_10 M_OBW_Mid_256QAM_FullRB



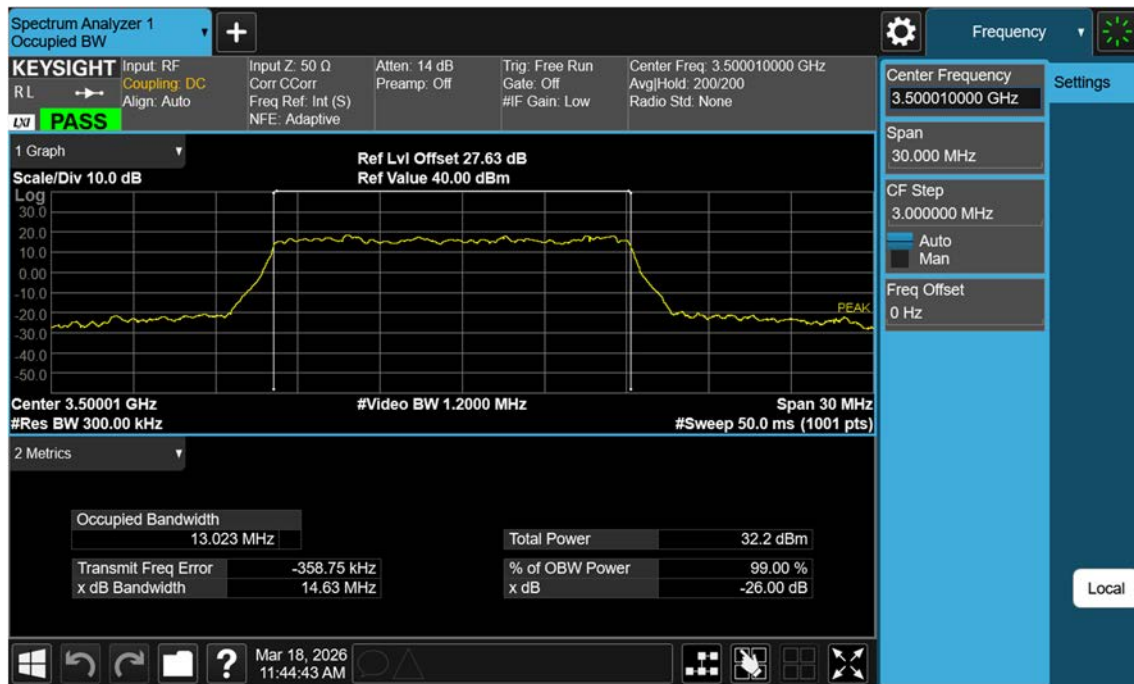
NR n77(78)(3450~3550 MHz)_15 M_OBW_Mid_PI/2 BPSK_FullIRB



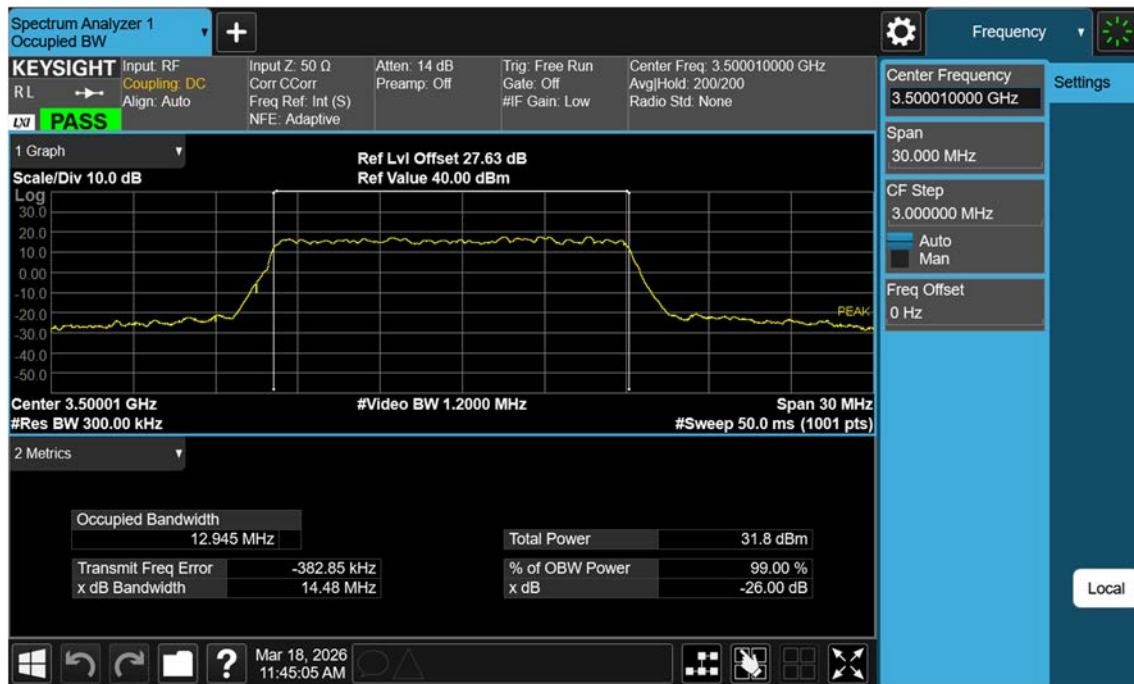
NR n77(78)(3450~3550 MHz)_15 M_OBW_Mid_QPSK_FullRB



NR n77(78)(3450~3550 MHz)_15 M_OBW_Mid_16QAM_FullRB



NR n77(78)(3450~3550 MHz)_15 M_OBW_Mid_64QAM_FullRB



NR n77(78)(3450~3550 MHz)_15 M_OBW_Mid_256QAM_FullRB

