

TEST REPORT

FCC Sub6 n77(78) Test for SM-A266U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2501-FC027

DATE OF ISSUE
January 15, 2025

Tested by
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TEST REPORT

REPORT NO.

HCT-RF-2501-FC027

DATE OF ISSUE

January 15, 2025

Additional Model

SM-A566E

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-A566E/DS

Date of Test

November 22, 2024~ January 10, 2025

FCC ID

A3LSMA556E

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	January 15, 2025	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

Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMA556E
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§ 27
EUT Type:	Mobile phone
Model(s):	SM-A566E/DS
Additional Model(s)	SM-A566E
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)) 3745.02 MHz - 3934.98 MHz (Sub6 n77(78)(90 MHz)) 3750.00 MHz - 3930.00 MHz (Sub6 n77(78)(100 MHz))
Date(s) of Tests:	November 22, 2024~ January 10, 2025
Serial number:	Radiated : R3CXB07JMQT Conducted : R3CXB07HDAZ

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	0.204	23.10
		8M72G7D	QPSK	0.193	22.85
		8M69W7D	16QAM	0.161	22.07
		8M69W7D	64QAM	0.112	20.51
		8M68W7D	256QAM	0.072	18.56
Sub6 n77(78) (15)	3457.50 – 3542.50	13M0G7D	PI/2 BPSK	0.200	23.00
		12M9G7D	QPSK	0.186	22.69
		13M0W7D	16QAM	0.177	22.48
		13M0W7D	64QAM	0.125	20.98
		13M0W7D	256QAM	0.080	19.03
Sub6 n77(78) (20)	3460.02 – 3540.00	18M0G7D	PI/2 BPSK	0.212	23.26
		18M0G7D	QPSK	0.204	23.10
		18M0W7D	16QAM	0.166	22.21
		18M0W7D	64QAM	0.123	20.89
		18M0W7D	256QAM	0.076	18.80
Sub6 n77(78) (25)	3462.50 – 3537.50	23M0G7D	PI/2 BPSK	0.212	23.26
		23M0G7D	QPSK	0.205	23.11
		23M0W7D	16QAM	0.173	22.39
		23M0W7D	64QAM	0.119	20.76
		23M0W7D	256QAM	0.078	18.94
Sub6 n77(78) (30)	3465.00 – 3534.99	27M0G7D	PI/2 BPSK	0.209	23.20
		27M0G7D	QPSK	0.200	23.00
		27M0W7D	16QAM	0.182	22.60
		27M0W7D	64QAM	0.124	20.92
		27M0W7D	256QAM	0.081	19.06
Sub6 n77(78) (40)	3470.01 – 3529.98	36M0G7D	PI/2 BPSK	0.219	23.40
		36M0G7D	QPSK	0.204	23.10
		35M9W7D	16QAM	0.182	22.61
		35M9W7D	64QAM	0.125	20.97
		35M9W7D	256QAM	0.082	19.13
Sub6 n77(78) (50)	3475.02 – 3525.00	46M1G7D	PI/2 BPSK	0.212	23.27
		46M1G7D	QPSK	0.207	23.17
		46M0W7D	16QAM	0.192	22.83
		45M9W7D	64QAM	0.130	21.14
		46M1W7D	256QAM	0.083	19.18
Sub6 n77(78) (60)	3480.00 – 3519.99	58M3G7D	PI/2 BPSK	0.213	23.28
		58M2G7D	QPSK	0.204	23.10
		58M2W7D	16QAM	0.190	22.78
		58M2W7D	64QAM	0.124	20.93
		58M2W7D	256QAM	0.081	19.08
Sub6 n77(78) (70)	3485.01 – 3514.98	64M9G7D	PI/2 BPSK	0.215	23.33
		64M7G7D	QPSK	0.202	23.05
		64M8W7D	16QAM	0.186	22.70
		64M8W7D	64QAM	0.127	21.04
		64M8W7D	256QAM	0.080	19.02
Sub6 n77(78) (80)	3490.02 – 3510.00	77M5G7D	PI/2 BPSK	0.209	23.20
		77M6G7D	QPSK	0.204	23.10
		77M6W7D	16QAM	0.184	22.64
		77M6W7D	64QAM	0.129	21.11
		77M5W7D	256QAM	0.082	19.14
Sub6 n77(78) (90)	3495.00 – 3504.99	87M3G7D	PI/2 BPSK	0.216	23.34
		87M2G7D	QPSK	0.200	23.01
		87M3W7D	16QAM	0.182	22.60
		87M6W7D	64QAM	0.133	21.25
		87M3W7D	256QAM	0.083	19.20
Sub6 n77(78) (100)	3500.01	96M8G7D	PI/2 BPSK	0.194	22.88
		96M8G7D	QPSK	0.193	22.86
		96M6W7D	16QAM	0.174	22.41
		96M9W7D	64QAM	0.123	20.90
		97M0W7D	256QAM	0.082	19.16

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	8M69G7D	PI/2 BPSK	0.407	26.10
		8M66G7D	QPSK	0.378	25.78
		8M67W7D	16QAM	0.373	25.72
		8M67W7D	64QAM	0.245	23.90
		8M67W7D	256QAM	0.161	22.06
Sub6 n77(78) (15)	3707.51 – 3972.48	13M0G7D	PI/2 BPSK	0.385	25.85
		12M9G7D	QPSK	0.368	25.66
		13M0W7D	16QAM	0.350	25.44
		13M0W7D	64QAM	0.235	23.71
		12M9W7D	256QAM	0.158	21.99
Sub6 n77(78) (20)	3710.01 – 3969.99	18M0G7D	PI/2 BPSK	0.385	25.85
		18M0G7D	QPSK	0.378	25.77
		18M0W7D	16QAM	0.356	25.52
		18M0W7D	64QAM	0.236	23.73
		18M0W7D	256QAM	0.155	21.89
Sub6 n77(78) (25)	3712.50 – 3967.50	23M1G7D	PI/2 BPSK	0.405	26.07
		23M1G7D	QPSK	0.374	25.73
		23M0W7D	16QAM	0.340	25.32
		23M0W7D	64QAM	0.239	23.78
		23M1W7D	256QAM	0.157	21.97
Sub6 n77(78) (30)	3715.02 – 3964.98	27M0G7D	PI/2 BPSK	0.421	26.24
		27M0G7D	QPSK	0.396	25.98
		26M9W7D	16QAM	0.359	25.55
		26M9W7D	64QAM	0.264	24.22
		26M9W7D	256QAM	0.154	21.88
Sub6 n77(78) (40)	3720.00 – 3960.00	35M9G7D	PI/2 BPSK	0.403	26.05
		36M0G7D	QPSK	0.397	25.99
		35M8W7D	16QAM	0.374	25.73
		36M0W7D	64QAM	0.261	24.16
		36M0W7D	256QAM	0.163	22.11
Sub6 n77(78) (50)	3725.10 – 3954.99	46M0G7D	PI/2 BPSK	0.432	26.35
		46M0G7D	QPSK	0.412	26.15
		45M9W7D	16QAM	0.350	25.44
		46M0W7D	64QAM	0.235	23.71
		45M9W7D	256QAM	0.159	22.02
Sub6 n77(78) (60)	3730.02 – 3949.98	58M1G7D	PI/2 BPSK	0.424	26.27
		58M2G7D	QPSK	0.387	25.88
		58M2W7D	16QAM	0.361	25.57
		58M3W7D	64QAM	0.244	23.87
		58M3W7D	256QAM	0.166	22.21
Sub6 n77(78) (70)	3735.00 – 3945.00	64M7G7D	PI/2 BPSK	0.383	25.83
		64M6G7D	QPSK	0.375	25.74
		64M7W7D	16QAM	0.337	25.27
		64M9W7D	64QAM	0.233	23.68
		64M8W7D	256QAM	0.155	21.90
Sub6 n77(78) (80)	3740.01 – 3939.99	77M5G7D	PI/2 BPSK	0.402	26.04
		77M6G7D	QPSK	0.392	25.93
		77M7W7D	16QAM	0.357	25.53
		77M6W7D	64QAM	0.249	23.97
		77M6W7D	256QAM	0.148	21.69
Sub6 n77(78) (90)	3745.02 – 3934.98	87M3G7D	PI/2 BPSK	0.366	25.63
		87M2G7D	QPSK	0.353	25.48
		87M2W7D	16QAM	0.304	24.83
		87M0W7D	64QAM	0.221	23.44
		87M3W7D	256QAM	0.140	21.45
Sub6 n77(78) (100)	3750.00 – 3930.00	97M0G7D	PI/2 BPSK	0.401	26.03
		96M8G7D	QPSK	0.382	25.82
		96M7W7D	16QAM	0.376	25.75
		96M9W7D	64QAM	0.245	23.90
		97M0W7D	256QAM	0.149	21.73

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

2.2. MEASURING INSTRUMENT CALIBRATION

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

2.3. TEST FACILITY

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

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

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

3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

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

Test Settings

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

Test Note

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

The power is calculated by the following formula;

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

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

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

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

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

3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method.

Test Settings

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

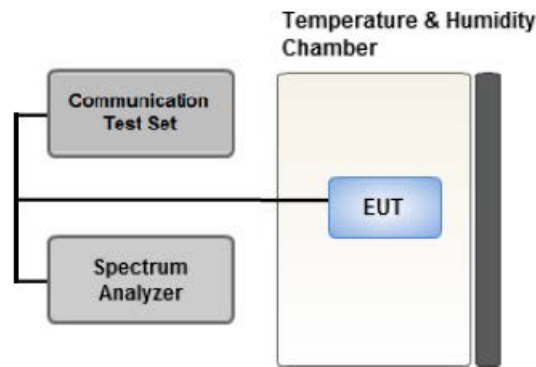
$$\text{Result}_{(\text{dBm})} = P_{\text{g}}_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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

① CCDF Procedure for PAPR

Test Settings

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

② Alternate Procedure for PAPR

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

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

Test Settings(Peak Power)

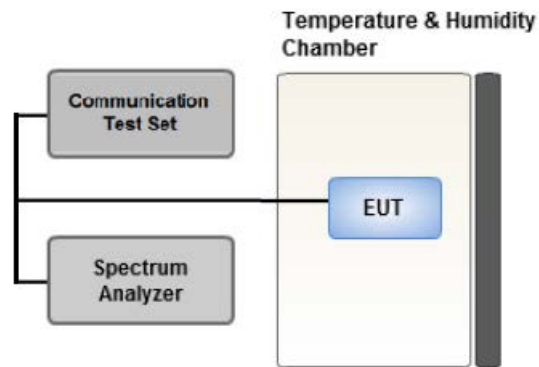
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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

Test Settings(Average Power)

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

3.5 OCCUPIED BANDWIDTH.



Test setup

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

The EUT makes a call to the communication simulator.

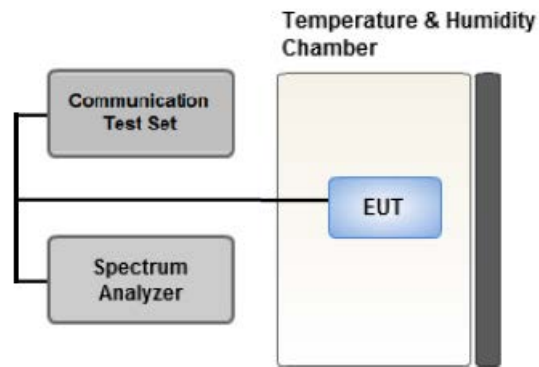
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99 % occupied bandwidth and the 26 dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5 % of the expected OBW
3. VBW $\geq$ 3 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

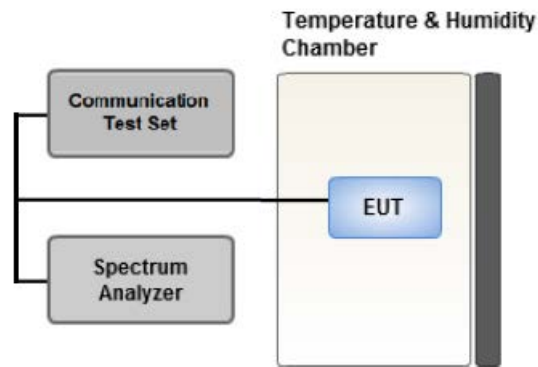
Test Overview

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 $\geq 2 \times \text{Span} / \text{RBW}$

3.7 BAND EDGE



Test setup

Test Overview

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

Test Settings

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

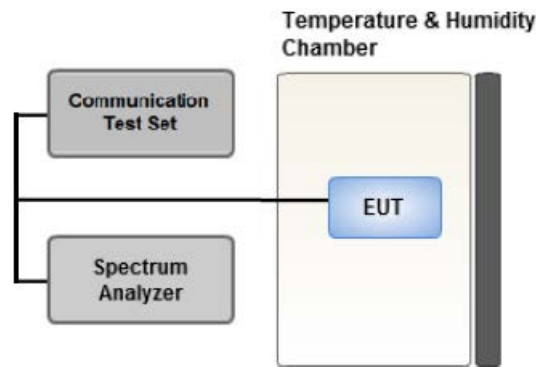
However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz.

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 power classes were tested, and the results were reported for the worst case PC2.
- 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.
- 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 : 40 MHz(3450 MHz – 3550 MHz), 50 MHz (3700 MHz – 3980 MHz))
- SM-A266U & additional models were tested and the worst case results are reported.
(Worst case : SM-A266U)

[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		Y
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		Z

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 power classes were tested, and the results were reported for the worst case PC2.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA, SRS
Worst case: SA
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.
- SM-A266U & additional models were tested and the worst case results are reported.
(Worst case : SM-A266U)

[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
Precision Dipole Antenna	UHAP	Schwarzbeck	01273	03/10/2026	Biennial
Precision Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	02289	02/14/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	9120D-1299	04/27/2025	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/28/2025	Biennial
Loop Antenna(9 kHz~30 MHz)	FMZB1513	Rohde & Schwarz	1513-175	01/06/2027	Biennial
Bilog Antenna	VULB9160	Schwarzbeck	3150	03/09/2025	Biennial
Hybrid Antenna	VULB9160	Schwarzbeck	760	02/24/2025	Biennial
RF Switching System	FBSR-06B (1G HPF + LNA)	T&M SYSTEM	F3L1	05/14/2025	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/14/2025	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/14/2025	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/14/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/26/2025	Annual
DC Power Supply	E3632A	Hewlett Packard	MY40004427	08/22/2025	Annual
Power Splitter(DC~26.5 GHz)	11667B	Hewlett Packard	11275	02/29/2025	Annual
Chamber	SU-642	ESPEC	93008124	02/19/2025	Annual
Signal Analyzer(10 Hz~26.5 GHz)	N9020A	Agilent	MY51110063	04/04/2025	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/17/2025	Annual
Spectrum Analyzer (10 Hz~40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/13/2025	Annual
Signal & Spectrum Analyzer (2 Hz~67 GHz)	FSW67	REOHDE & SCHWARZ	101736	23/05/2025	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/16/2025	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/14/2025	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/17/2025	Annual
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/10/2025	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.,	-	-	-

Note:

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

5. MEASUREMENT UNCERTAINTY

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

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

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

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

6. SUMMARY OF TEST RESULTS

6.1 Test Condition : Conducted Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Occupied Bandwidth	§ 2.1049	N/A	PASS
Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§ 2.1051, § 27.53(n)(2), § 27.53(l)(2)	< -13 dBm	PASS
Conducted Output Power	§ 2.1046	N/A	<u>See 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. See 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	-25.58	12.40	11.96	3.04	H	< 1.00	0.136	21.32	1	22
		QPSK	-25.74	12.24	11.96	3.04	H		0.131	21.16		
		16-QAM	-26.19	11.79	11.96	3.04	H		0.118	20.71		
		64-QAM	-27.69	10.29	11.96	3.04	H		0.083	19.21		
		256-QAM	-30.07	7.91	11.96	3.04	H		0.048	16.83		
3500.01		PI/2 BPSK	-24.22	14.10	12.04	3.04	H		0.204	23.10	1	12
		QPSK	-24.57	13.75	12.04	3.04	H		0.188	22.75		
		16-QAM	-25.25	13.07	12.04	3.04	H		0.161	22.07		
		64-QAM	-26.81	11.51	12.04	3.04	H		0.113	20.51		
		256-QAM	-28.76	9.56	12.04	3.04	H		0.072	18.56		
3544.99		PI/2 BPSK	-24.25	14.10	12.04	3.07	H		0.203	23.07	1	12
		QPSK	-24.47	13.88	12.04	3.07	H		0.193	22.85		
		16-QAM	-27.57	10.78	12.04	3.07	H		0.094	19.75		
		64-QAM	-29.13	9.22	12.04	3.07	H		0.066	18.19		
		256-QAM	-31.22	7.13	12.04	3.07	H		0.041	16.10		

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
3457.50		PI/2 BPSK	-25.54	12.47	12.00	3.04	H		0.139	21.43	1	19
		QPSK	-25.62	12.39	12.00	3.04	H		0.137	21.35		
		16-QAM	-26.06	11.95	12.00	3.04	H		0.123	20.91		
		64-QAM	-27.66	10.35	12.00	3.04	H		0.085	19.31		
		256-QAM	-29.87	8.14	12.00	3.04	H		0.051	17.10		
3500.01	Sub6 n77(78)/ 15 MHz [30 kHz]	PI/2 BPSK	-24.32	14.00	12.04	3.04	H	< 1.00	0.200	23.00	1	36
		QPSK	-24.63	13.69	12.04	3.04	H		0.186	22.69		
		16-QAM	-24.84	13.48	12.04	3.04	H		0.177	22.48		
		64-QAM	-26.71	11.61	12.04	3.04	H		0.115	20.61		
		256-QAM	-28.48	9.84	12.04	3.04	H		0.077	18.84		
3542.50		PI/2 BPSK	-24.37	13.98	12.04	3.07	H		0.197	22.95	1	1
		QPSK	-24.67	13.68	12.04	3.07	H		0.184	22.65		
		16-QAM	-25.03	13.32	12.04	3.07	H		0.169	22.29		
		64-QAM	-26.34	12.01	12.04	3.07	H		0.125	20.98		
		256-QAM	-28.29	10.06	12.04	3.07	H		0.080	19.03		

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	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-25.46	12.55	12.00	3.04	H	< 1.00	0.142	21.51	1	25
		QPSK	-25.51	12.50	12.00	3.04	H		0.140	21.46		
		16-QAM	-26.29	11.72	12.00	3.04	H		0.117	20.68		
		64-QAM	-27.62	10.39	12.00	3.04	H		0.086	19.35		
		256-QAM	-29.70	8.31	12.00	3.04	H		0.053	17.27		
3500.01		PI/2 BPSK	-24.33	13.99	12.04	3.04	H		0.199	22.99	1	1
		QPSK	-24.52	13.80	12.04	3.04	H		0.191	22.80		
		16-QAM	-25.15	13.17	12.04	3.04	H		0.165	22.17		
		64-QAM	-26.92	11.40	12.04	3.04	H		0.110	20.40		
		256-QAM	-28.84	9.48	12.04	3.04	H		0.071	18.48		
3540.00		PI/2 BPSK	-24.00	14.28	12.04	3.06	H		0.212	23.26	1	1
		QPSK	-24.16	14.12	12.04	3.06	H		0.204	23.10		
		16-QAM	-25.05	13.23	12.04	3.06	H		0.166	22.21		
		64-QAM	-26.37	11.91	12.04	3.06	H		0.123	20.89		
		256-QAM	-28.46	9.82	12.04	3.06	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
3462.50	Sub6 n77(78)/ 25 MHz [30 kHz]	PI/2 BPSK	-25.60	12.40	12.02	3.02	H	< 1.00	0.138	21.40	1	32
		QPSK	-25.74	12.26	12.02	3.02	H		0.134	21.26		
		16-QAM	-26.53	11.47	12.02	3.02	H		0.111	20.47		
		64-QAM	-28.13	9.87	12.02	3.02	H		0.077	18.87		
		256-QAM	-30.17	7.83	12.02	3.02	H		0.048	16.83		
3500.01		PI/2 BPSK	-24.77	13.55	12.04	3.04	H		0.180	22.55	1	63
		QPSK	-24.86	13.46	12.04	3.04	H		0.176	22.46		
		16-QAM	-24.93	13.39	12.04	3.04	H		0.173	22.39		
		64-QAM	-26.56	11.76	12.04	3.04	H		0.119	20.76		
		256-QAM	-28.38	9.94	12.04	3.04	H		0.078	18.94		
3537.50		PI/2 BPSK	-24.00	14.28	12.04	3.06	H		0.212	23.26	1	1
		QPSK	-24.15	14.13	12.04	3.06	H		0.205	23.11		
		16-QAM	-25.00	13.28	12.04	3.06	H		0.168	22.26		
		64-QAM	-26.54	11.74	12.04	3.06	H		0.118	20.72		
		256-QAM	-28.50	9.78	12.04	3.06	H		0.075	18.76		

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	-25.00	13.00	12.02	3.02	H	< 1.00	0.159	22.00	1	76
		QPSK	-25.19	12.81	12.02	3.02	H		0.152	21.81		
		16-QAM	-25.88	12.12	12.02	3.02	H		0.129	21.12		
		64-QAM	-27.12	10.88	12.02	3.02	H		0.097	19.88		
		256-QAM	-28.96	9.04	12.02	3.02	H		0.064	18.04		
3500.01	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-24.49	13.83	12.04	3.04	H	< 1.00	0.192	22.83	1	76
		QPSK	-24.59	13.73	12.04	3.04	H		0.188	22.73		
		16-QAM	-24.96	13.36	12.04	3.04	H		0.172	22.36		
		64-QAM	-26.61	11.71	12.04	3.04	H		0.118	20.71		
		256-QAM	-28.67	9.65	12.04	3.04	H		0.073	18.65		
3534.99		PI/2 BPSK	-24.09	14.21	12.04	3.05	H	< 1.00	0.209	23.20	1	39
		QPSK	-24.29	14.01	12.04	3.05	H		0.200	23.00		
		16-QAM	-24.69	13.61	12.04	3.05	H		0.182	22.60		
		64-QAM	-26.37	11.93	12.04	3.05	H		0.124	20.92		
		256-QAM	-28.23	10.07	12.04	3.05	H		0.081	19.06		

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	-24.68	13.32	12.04	3.01	H	< 1.00	0.172	22.35	1	104
		QPSK	-24.75	13.25	12.04	3.01	H		0.169	22.28		
		16-QAM	-25.17	12.83	12.04	3.01	H		0.154	21.86		
		64-QAM	-27.10	10.90	12.04	3.01	H		0.098	19.93		
		256-QAM	-28.60	9.40	12.04	3.01	H		0.070	18.43		
3500.01	Sub6 n77(78)/ 40 MHz [30 kHz]	PI/2 BPSK	-24.24	14.08	12.04	3.04	H	< 1.00	0.203	23.08	1	53
		QPSK	-24.85	13.47	12.04	3.04	H		0.177	22.47		
		16-QAM	-25.08	13.24	12.04	3.04	H		0.168	22.24		
		64-QAM	-26.61	11.71	12.04	3.04	H		0.118	20.71		
		256-QAM	-28.65	9.67	12.04	3.04	H		0.074	18.67		
3529.98		PI/2 BPSK	-23.91	14.41	12.04	3.05	H	< 1.00	0.219	23.40	1	53
		QPSK	-24.21	14.11	12.04	3.05	H		0.204	23.10		
		16-QAM	-24.70	13.62	12.04	3.05	H		0.182	22.61		
		64-QAM	-26.34	11.98	12.04	3.05	H		0.125	20.97		
		256-QAM	-28.18	10.14	12.04	3.05	H		0.082	19.13		

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	-24.55	13.47	12.04	3.02	H	< 1.00	0.177	22.49	1	131
		QPSK	-24.60	13.42	12.04	3.02	H		0.175	22.44		
		16-QAM	-25.10	12.92	12.04	3.02	H		0.156	21.94		
		64-QAM	-26.42	11.60	12.04	3.02	H		0.115	20.62		
		256-QAM	-28.51	9.51	12.04	3.02	H		0.071	18.53		
3500.01	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-24.19	14.13	12.04	3.04	H	< 1.00	0.206	23.13	1	131
		QPSK	-24.30	14.02	12.04	3.04	H		0.200	23.02		
		16-QAM	-24.66	13.66	12.04	3.04	H		0.185	22.66		
		64-QAM	-26.30	12.02	12.04	3.04	H		0.127	21.02		
		256-QAM	-28.41	9.91	12.04	3.04	H		0.078	18.91		
3525.00		PI/2 BPSK	-24.13	14.27	12.04	3.04	H	< 1.00	0.212	23.27	1	66
		QPSK	-24.23	14.17	12.04	3.04	H		0.208	23.17		
		16-QAM	-24.57	13.83	12.04	3.04	H		0.192	22.83		
		64-QAM	-26.26	12.14	12.04	3.04	H		0.130	21.14		
		256-QAM	-28.22	10.18	12.04	3.04	H		0.083	19.18		

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	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-24.41	13.62	12.04	3.02	H	< 1.00	0.184	22.64	1	160
		QPSK	-24.53	13.50	12.04	3.02	H		0.179	22.52		
		16-QAM	-25.11	12.92	12.04	3.02	H		0.156	21.94		
		64-QAM	-26.50	11.53	12.04	3.02	H		0.114	20.55		
		256-QAM	-28.62	9.41	12.04	3.02	H		0.070	18.43		
3500.01		PI/2 BPSK	-24.06	14.26	12.04	3.04	H		0.212	23.26	1	160
		QPSK	-24.30	14.02	12.04	3.04	H		0.200	23.02		
		16-QAM	-24.94	13.38	12.04	3.04	H		0.173	22.38		
		64-QAM	-26.39	11.93	12.04	3.04	H		0.124	20.93		
		256-QAM	-28.24	10.08	12.04	3.04	H		0.081	19.08		
3519.99		PI/2 BPSK	-24.21	14.28	12.04	3.04	H		0.213	23.28	1	82
		QPSK	-24.39	14.10	12.04	3.04	H		0.204	23.10		
		16-QAM	-24.71	13.78	12.04	3.04	H		0.190	22.78		
		64-QAM	-26.69	11.80	12.04	3.04	H		0.120	20.80		
		256-QAM	-28.63	9.86	12.04	3.04	H		0.077	18.86		

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	-24.22	13.88	12.04	3.03	H	< 1.00	0.195	22.89	1	187
		QPSK	-24.36	13.74	12.04	3.03	H		0.188	22.75		
		16-QAM	-24.89	13.21	12.04	3.03	H		0.167	22.22		
		64-QAM	-26.54	11.56	12.04	3.03	H		0.114	20.57		
		256-QAM	-28.71	9.39	12.04	3.03	H		0.069	18.40		
3500.01		PI/2 BPSK	-24.00	14.32	12.04	3.04	H		0.215	23.32	1	187
		QPSK	-24.32	14.00	12.04	3.04	H		0.200	23.00		
		16-QAM	-24.69	13.63	12.04	3.04	H		0.183	22.63		
		64-QAM	-26.28	12.04	12.04	3.04	H		0.127	21.04		
		256-QAM	-28.34	9.98	12.04	3.04	H		0.079	18.98		
3514.98		PI/2 BPSK	-24.19	14.33	12.04	3.04	H		0.215	23.33	1	94
		QPSK	-24.47	14.05	12.04	3.04	H		0.202	23.05		
		16-QAM	-24.82	13.70	12.04	3.04	H		0.186	22.70		
		64-QAM	-26.51	12.01	12.04	3.04	H		0.126	21.01		
		256-QAM	-28.50	10.02	12.04	3.04	H		0.080	19.02		

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	-24.13	14.04	12.04	3.04	H	< 1.00	0.201	23.04	1	215
		QPSK	-24.28	13.89	12.04	3.04	H		0.195	22.89		
		16-QAM	-24.72	13.45	12.04	3.04	H		0.176	22.45		
		64-QAM	-26.06	12.11	12.04	3.04	H		0.129	21.11		
		256-QAM	-28.23	9.94	12.04	3.04	H		0.078	18.94		
3500.01	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-24.20	14.12	12.04	3.04	H	< 1.00	0.205	23.12	1	215
		QPSK	-24.45	13.87	12.04	3.04	H		0.194	22.87		
		16-QAM	-24.97	13.35	12.04	3.04	H		0.172	22.35		
		64-QAM	-26.31	12.01	12.04	3.04	H		0.126	21.01		
		256-QAM	-28.18	10.14	12.04	3.04	H		0.082	19.14		
3510.00		PI/2 BPSK	-24.36	14.21	12.04	3.05	H	< 1.00	0.209	23.20	1	108
		QPSK	-24.46	14.11	12.04	3.05	H		0.204	23.10		
		16-QAM	-24.92	13.65	12.04	3.05	H		0.184	22.64		
		64-QAM	-26.72	11.85	12.04	3.05	H		0.121	20.84		
		256-QAM	-28.57	10.00	12.04	3.05	H		0.079	18.99		

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	-23.91	14.34	12.04	3.04	H	< 1.00	0.216	23.34	1	243
		QPSK	-24.24	14.01	12.04	3.04	H		0.200	23.01		
		16-QAM	-24.71	13.54	12.04	3.04	H		0.180	22.54		
		64-QAM	-26.00	12.25	12.04	3.04	H		0.133	21.25		
		256-QAM	-28.05	10.20	12.04	3.04	H		0.083	19.20		
3500.01	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-24.36	13.96	12.04	3.04	H	< 1.00	0.198	22.96	1	243
		QPSK	-24.50	13.82	12.04	3.04	H		0.191	22.82		
		16-QAM	-24.72	13.60	12.04	3.04	H		0.182	22.60		
		64-QAM	-26.66	11.66	12.04	3.04	H		0.116	20.66		
		256-QAM	-28.25	10.07	12.04	3.04	H		0.081	19.07		
3504.99		PI/2 BPSK	-24.49	13.96	12.04	3.05	H	< 1.00	0.197	22.95	1	122
		QPSK	-24.60	13.85	12.04	3.05	H		0.192	22.84		
		16-QAM	-24.90	13.55	12.04	3.05	H		0.180	22.54		
		64-QAM	-26.38	12.07	12.04	3.05	H		0.128	21.06		
		256-QAM	-28.56	9.89	12.04	3.05	H		0.077	18.88		

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	-24.44	13.88	12.04	3.04	H	< 1.00	0.194	22.88	1	271
		QPSK	-24.46	13.86	12.04	3.04	H		0.193	22.86		
		16-QAM	-24.91	13.41	12.04	3.04	H		0.174	22.41		
		64-QAM	-26.42	11.90	12.04	3.04	H		0.123	20.90		
		256-QAM	-28.16	10.16	12.04	3.04	H		0.082	19.16		

8.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>N77(78)</u>
Bandwidth:	<u>40 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
631334 (3470.01)	6 940.02	-60.17	11.16	-54.37	4.41	H	-47.62	-13.00	1	104
	10 410.03	-54.77	11.71	-44.30	5.56	H	-38.15	-13.00		
	13 880.04	-53.64	13.01	-42.88	6.48	H	-36.35	-13.00		
633334 (3500.01)	7 000.02	-60.37	11.13	-53.72	4.45	H	-47.04	-13.00	1	53
	10 500.03	-56.47	11.71	-45.22	5.64	H	-39.15	-13.00		
	14 000.04	-52.94	12.76	-43.36	6.55	H	-37.15	-13.00		
635332 (3529.98)	7 059.96	-59.01	10.95	-52.14	4.49	H	-45.68	-13.00	1	53
	10 589.94	-56.49	11.60	-45.39	5.66	H	-39.45	-13.00		
	14 119.92	-55.36	12.75	-46.82	6.61	H	-40.68	-13.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n77(78)	10 MHz	3500.01	BPSK	Full RB	0	4.34
			QPSK			5.18
			16-QAM			5.72
			64-QAM			6.04
			256-QAM			5.98
	15 MHz		BPSK			4.25
			QPSK			5.18
			16-QAM			5.68
			64-QAM			6.01
			256-QAM			5.90
	20 MHz		BPSK			4.39
			QPSK			5.21
			16-QAM			5.77
			64-QAM			6.04
			256-QAM			5.90
	25 MHz		BPSK			4.38
			QPSK			5.24
			16-QAM			5.84
			64-QAM			6.02
			256-QAM			6.04
	30 MHz		BPSK			4.39
			QPSK			5.21
			16-QAM			5.77
			64-QAM			6.13
			256-QAM			5.99
	40 MHz		BPSK			4.95
			QPSK			5.28
			16-QAM			5.74
			64-QAM			6.08
			256-QAM			5.99
	50 MHz		BPSK			4.34
			QPSK			5.23
			16-QAM			5.81
			64-QAM			6.05
			256-QAM			6.00
	60 MHz		BPSK			4.66
			QPSK			5.22
			16-QAM			5.85
			64-QAM			6.10
			256-QAM			6.06
	70 MHz		BPSK			4.74
			QPSK			5.29
			16-QAM			5.81
			64-QAM			6.05
			256-QAM			6.07

	80 MHz		BPSK			4.36
			QPSK			5.26
			16-QAM			5.79
			64-QAM			6.04
			256-QAM			6.02
	90 MHz		BPSK			4.39
			QPSK			5.30
			16-QAM			5.86
			64-QAM			6.04
			256-QAM			6.01
	100 MHz		BPSK			4.39
			QPSK			5.29
			16-QAM			5.83
			64-QAM			6.10
			256-QAM			6.09

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 91 ~ 150.

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	BPSK	Full RB	0	8.6583
			QPSK			8.7207
			16-QAM			8.6876
			64-QAM			8.6889
			256-QAM			8.6791
	15 MHz		BPSK			12.989
			QPSK			12.923
			16-QAM			12.971
			64-QAM			12.948
			256-QAM			12.989
	20 MHz		BPSK			17.980
			QPSK			17.981
			16-QAM			17.971
			64-QAM			17.974
			256-QAM			17.972
	25 MHz		BPSK			23.003
			QPSK			23.032
			16-QAM			23.039
			64-QAM			22.968
			256-QAM			22.975
	30 MHz		BPSK			26.974
			QPSK			27.005
			16-QAM			26.990
			64-QAM			26.966
			256-QAM			27.011
	40 MHz		BPSK			36.003
			QPSK			35.950
			16-QAM			35.933
			64-QAM			35.920
			256-QAM			35.928
	50 MHz		BPSK			46.094
			QPSK			46.076
			16-QAM			46.011
			64-QAM			45.876
			256-QAM			46.046
	60 MHz		BPSK			58.285
			QPSK			58.179
			16-QAM			58.238
			64-QAM			58.199
			256-QAM			58.172
	70 MHz		BPSK			64.879
			QPSK			64.718
			16-QAM			64.777
			64-QAM			64.800
			256-QAM			64.790

	80 MHz		BPSK			77.540
			QPSK			77.622
			16-QAM			77.578
			64-QAM			77.554
			256-QAM			77.523
	90 MHz		BPSK			87.304
			QPSK			87.226
			16-QAM			87.263
			64-QAM			87.605
			256-QAM			87.247
	100 MHz		BPSK			96.824
			QPSK			96.755
			16-QAM			96.627
			64-QAM			96.941
			256-QAM			96.984

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 151 ~ 210.

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	6.0419	30.815	-62.684	-31.869	-13.00
		3500.010	4.9851	30.200	-63.443	-33.243	
		3544.980	9.2423	30.815	-63.871	-33.056	
	15	3457.500	4.6262	30.200	-62.863	-32.663	
		3500.010	6.8694	30.815	-63.256	-32.441	
		3542.490	9.9801	30.815	-63.347	-32.532	
	20	3460.020	9.4317	30.815	-62.764	-31.949	
		3500.010	8.2652	30.815	-63.036	-32.221	
		3540.000	9.6311	30.815	-62.568	-31.753	
	25	3462.510	5.7528	30.815	-63.802	-32.987	
		3500.010	4.8954	30.200	-63.721	-33.521	
		3537.480	7.9163	30.815	-63.013	-32.198	
	30	3465.000	9.1725	30.815	-62.719	-31.904	
		3500.010	5.2244	30.815	-63.677	-32.862	
		3534.990	4.9951	30.200	-62.754	-32.554	
	40	3470.010	8.0559	30.815	-63.404	-32.589	
		3500.010	9.9202	30.815	-63.359	-32.544	
		3529.980	4.6062	30.200	-62.274	-32.074	
	50	3475.020	4.9851	30.200	-63.150	-32.950	
		3500.010	8.3051	30.815	-63.226	-32.411	
		3525.000	8.8136	30.815	-62.491	-31.676	
	60	3480.000	6.0619	30.815	-63.413	-32.598	
		3500.010	8.2951	30.815	-62.805	-31.990	
		3519.990	6.0020	30.815	-63.570	-32.755	
	70	3485.010	9.4317	30.815	-63.060	-32.245	
		3500.010	6.0020	30.815	-62.983	-32.168	
		3514.980	8.2353	30.815	-63.459	-32.644	
	80	3490.020	8.5843	30.815	-63.141	-32.326	
		3500.010	4.7957	30.200	-63.408	-33.208	
		3510.000	7.7667	30.815	-62.743	-31.928	
	90	3495.000	5.1745	30.815	-63.119	-32.304	
		3500.010	4.9253	30.200	-62.542	-32.342	
		3504.990	8.6541	30.815	-62.290	-31.475	
	100	3500.010	8.0359	30.815	-63.170	-32.355	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 211 ~ 278.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Attenuator + Power Splitter

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.494
1 – 5	30.200
5 – 10	30.815
10 – 15	31.340
15 – 20	31.713
Above 20	32.355

8.6 BAND EDGE

1. Plots of the EUT's Band Edge are shown Page 279 ~ 422.
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 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 009 993	0.0	0.000 000	0.000
	100 %	-30	3455 009 987	-6.3	0.000 000	-0.002
	100 %	-20	3455 009 984	-8.6	0.000 000	-0.002
	100 %	-10	3455 009 987	-6.2	0.000 000	-0.002
	100 %	0	3455 009 987	-5.8	0.000 000	-0.002
	100 %	+10	3455 009 987	-6.3	0.000 000	-0.002
	100 %	+30	3455 009 986	-6.9	0.000 000	-0.002
	100 %	+40	3455 009 987	-5.6	0.000 000	-0.002
	100 %	+50	3455 009 984	-8.4	0.000 000	-0.002
	Batt. Endpoint	+20	3455 009 986	-7.3	0.000 000	-0.002
3544.980	100 %	+20(Ref)	3544 979 989	0.0	0.000 000	0.000
	100 %	-30	3544 979 982	-7.5	0.000 000	-0.002
	100 %	-20	3544 979 981	-8.7	0.000 000	-0.002
	100 %	-10	3544 979 979	-10.3	0.000 000	-0.003
	100 %	0	3544 979 981	-7.9	0.000 000	-0.002
	100 %	+10	3544 979 978	-11.2	0.000 000	-0.003
	100 %	+30	3544 979 979	-10.5	0.000 000	-0.003
	100 %	+40	3544 979 981	-7.8	0.000 000	-0.002
	100 %	+50	3544 979 981	-8.1	0.000 000	-0.002
	Batt. Endpoint	+20	3544 979 980	-9.6	0.000 000	-0.003

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 499 995	0.0	0.000 000	0.000
	100 %	-30	3457 499 987	-7.8	0.000 000	-0.002
	100 %	-20	3457 499 989	-5.9	0.000 000	-0.002
	100 %	-10	3457 499 987	-7.8	0.000 000	-0.002
	100 %	0	3457 499 990	-4.6	0.000 000	-0.001
	100 %	+10	3457 499 987	-7.5	0.000 000	-0.002
	100 %	+30	3457 499 989	-5.5	0.000 000	-0.002
	100 %	+40	3457 499 987	-7.2	0.000 000	-0.002
	100 %	+50	3457 499 988	-6.5	0.000 000	-0.002
	Batt. Endpoint	+20	3457 499 990	-4.4	0.000 000	-0.001
3542.490	100 %	+20(Ref)	3542 489 996	0.0	0.000 000	0.000
	100 %	-30	3542 489 992	-4.2	0.000 000	-0.001
	100 %	-20	3542 489 991	-4.7	0.000 000	-0.001
	100 %	-10	3542 489 991	-4.9	0.000 000	-0.001
	100 %	0	3542 489 991	-4.9	0.000 000	-0.001
	100 %	+10	3542 489 989	-6.9	0.000 000	-0.002
	100 %	+30	3542 489 990	-5.9	0.000 000	-0.002
	100 %	+40	3542 489 993	-3.5	0.000 000	-0.001
	100 %	+50	3542 489 988	-7.8	0.000 000	-0.002
	Batt. Endpoint	+20	3542 489 991	-5.5	0.000 000	-0.002

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 019 991	0.0	0.000 000	0.000
	100 %	-30	3460 019 983	-7.7	0.000 000	-0.002
	100 %	-20	3460 019 980	-10.4	0.000 000	-0.003
	100 %	-10	3460 019 984	-6.6	0.000 000	-0.002
	100 %	0	3460 019 983	-7.4	0.000 000	-0.002
	100 %	+10	3460 019 981	-9.4	0.000 000	-0.003
	100 %	+30	3460 019 983	-7.7	0.000 000	-0.002
	100 %	+40	3460 019 982	-8.3	0.000 000	-0.002
	100 %	+50	3460 019 983	-7.2	0.000 000	-0.002
	Batt. Endpoint	+20	3460 019 984	-6.6	0.000 000	-0.002
3540.000	100 %	+20(Ref)	3539 999 993	0.0	0.000 000	0.000
	100 %	-30	3539 999 986	-7.1	0.000 000	-0.002
	100 %	-20	3539 999 987	-6.3	0.000 000	-0.002
	100 %	-10	3539 999 987	-6.5	0.000 000	-0.002
	100 %	0	3539 999 985	-8.5	0.000 000	-0.002
	100 %	+10	3539 999 986	-7.8	0.000 000	-0.002
	100 %	+30	3539 999 988	-5.6	0.000 000	-0.002
	100 %	+40	3539 999 985	-8.2	0.000 000	-0.002
	100 %	+50	3539 999 986	-7.8	0.000 000	-0.002
	Batt. Endpoint	+20	3539 999 988	-5.9	0.000 000	-0.002

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 509 991	0.0	0.000 000	0.000
	100 %	-30	3462 509 983	-7.8	0.000 000	-0.002
	100 %	-20	3462 509 982	-9.4	0.000 000	-0.003
	100 %	-10	3462 509 983	-7.9	0.000 000	-0.002
	100 %	0	3462 509 983	-8.2	0.000 000	-0.002
	100 %	+10	3462 509 984	-6.7	0.000 000	-0.002
	100 %	+30	3462 509 984	-6.7	0.000 000	-0.002
	100 %	+40	3462 509 982	-9.5	0.000 000	-0.003
	100 %	+50	3462 509 986	-5.3	0.000 000	-0.002
	Batt. Endpoint	+20	3462 509 983	-7.8	0.000 000	-0.002
3537.480	100 %	+20(Ref)	3537 479 992	0.0	0.000 000	0.000
	100 %	-30	3537 479 985	-7.1	0.000 000	-0.002
	100 %	-20	3537 479 983	-9.0	0.000 000	-0.003
	100 %	-10	3537 479 985	-7.6	0.000 000	-0.002
	100 %	0	3537 479 985	-7.3	0.000 000	-0.002
	100 %	+10	3537 479 985	-7.6	0.000 000	-0.002
	100 %	+30	3537 479 986	-6.5	0.000 000	-0.002
	100 %	+40	3537 479 985	-7.8	0.000 000	-0.002
	100 %	+50	3537 479 983	-9.4	0.000 000	-0.003
	Batt. Endpoint	+20	3537 479 983	-9.3	0.000 000	-0.003

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 999 995	0.0	0.000 000	0.000
	100 %	-30	3464 999 987	-7.8	0.000 000	-0.002
	100 %	-20	3464 999 989	-5.8	0.000 000	-0.002
	100 %	-10	3464 999 990	-5.1	0.000 000	-0.001
	100 %	0	3464 999 987	-7.6	0.000 000	-0.002
	100 %	+10	3464 999 987	-7.7	0.000 000	-0.002
	100 %	+30	3464 999 990	-4.8	0.000 000	-0.001
	100 %	+40	3464 999 985	-9.6	0.000 000	-0.003
	100 %	+50	3464 999 988	-7.1	0.000 000	-0.002
	Batt. Endpoint	+20	3464 999 988	-6.7	0.000 000	-0.002
3534.990	100 %	+20(Ref)	3534 989 992	0.0	0.000 000	0.000
	100 %	-30	3534 989 983	-9.1	0.000 000	-0.003
	100 %	-20	3534 989 985	-7.3	0.000 000	-0.002
	100 %	-10	3534 989 986	-6.2	0.000 000	-0.002
	100 %	0	3534 989 986	-6.4	0.000 000	-0.002
	100 %	+10	3534 989 985	-7.2	0.000 000	-0.002
	100 %	+30	3534 989 985	-7.0	0.000 000	-0.002
	100 %	+40	3534 989 982	-10.6	0.000 000	-0.003
	100 %	+50	3534 989 985	-7.4	0.000 000	-0.002
	Batt. Endpoint	+20	3534 989 985	-6.9	0.000 000	-0.002

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 009 992	0.0	0.000 000	0.000
	100 %	-30	3470 009 987	-4.9	0.000 000	-0.001
	100 %	-20	3470 009 985	-7.2	0.000 000	-0.002
	100 %	-10	3470 009 986	-6.4	0.000 000	-0.002
	100 %	0	3470 009 985	-6.7	0.000 000	-0.002
	100 %	+10	3470 009 986	-6.1	0.000 000	-0.002
	100 %	+30	3470 009 987	-5.5	0.000 000	-0.002
	100 %	+40	3470 009 983	-8.6	0.000 000	-0.002
	100 %	+50	3470 009 985	-7.2	0.000 000	-0.002
	Batt. Endpoint	+20	3470 009 986	-5.8	0.000 000	-0.002
3529.980	100 %	+20(Ref)	3529 979 993	0.0	0.000 000	0.000
	100 %	-30	3529 979 983	-9.7	0.000 000	-0.003
	100 %	-20	3529 979 980	-12.3	0.000 000	-0.003
	100 %	-10	3529 979 988	-4.7	0.000 000	-0.001
	100 %	0	3529 979 985	-8.2	0.000 000	-0.002
	100 %	+10	3529 979 983	-9.5	0.000 000	-0.003
	100 %	+30	3529 979 985	-8.2	0.000 000	-0.002
	100 %	+40	3529 979 980	-12.6	0.000 000	-0.004
	100 %	+50	3529 979 985	-8.0	0.000 000	-0.002
	Batt. Endpoint	+20	3529 979 984	-8.4	0.000 000	-0.002

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 019 992	0.0	0.000 000	0.000
	100 %	-30	3475 019 985	-6.9	0.000 000	-0.002
	100 %	-20	3475 019 983	-9.6	0.000 000	-0.003
	100 %	-10	3475 019 986	-6.3	0.000 000	-0.002
	100 %	0	3475 019 987	-5.0	0.000 000	-0.001
	100 %	+10	3475 019 983	-9.4	0.000 000	-0.003
	100 %	+30	3475 019 986	-6.3	0.000 000	-0.002
	100 %	+40	3475 019 985	-7.2	0.000 000	-0.002
	100 %	+50	3475 019 984	-8.3	0.000 000	-0.002
	Batt. Endpoint	+20	3475 019 985	-6.9	0.000 000	-0.002
3525.000	100 %	+20(Ref)	3524 999 992	0.0	0.000 000	0.000
	100 %	-30	3524 999 982	-9.3	0.000 000	-0.003
	100 %	-20	3524 999 983	-8.6	0.000 000	-0.002
	100 %	-10	3524 999 986	-5.8	0.000 000	-0.002
	100 %	0	3524 999 981	-10.4	0.000 000	-0.003
	100 %	+10	3524 999 986	-5.7	0.000 000	-0.002
	100 %	+30	3524 999 985	-6.6	0.000 000	-0.002
	100 %	+40	3524 999 986	-5.2	0.000 000	-0.001
	100 %	+50	3524 999 982	-9.5	0.000 000	-0.003
	Batt. Endpoint	+20	3524 999 981	-10.1	0.000 000	-0.003

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 999 994	0.0	0.000 000	0.000
	100 %	-30	3479 999 985	-8.8	0.000 000	-0.003
	100 %	-20	3479 999 985	-8.1	0.000 000	-0.002
	100 %	-10	3479 999 983	-10.1	0.000 000	-0.003
	100 %	0	3479 999 986	-7.1	0.000 000	-0.002
	100 %	+10	3479 999 986	-7.6	0.000 000	-0.002
	100 %	+30	3479 999 985	-8.1	0.000 000	-0.002
	100 %	+40	3479 999 987	-6.2	0.000 000	-0.002
	100 %	+50	3479 999 988	-6.0	0.000 000	-0.002
	Batt. Endpoint	+20	3479 999 984	-9.2	0.000 000	-0.003
3519.990	100 %	+20(Ref)	3519 989 991	0.0	0.000 000	0.000
	100 %	-30	3519 989 983	-8.7	0.000 000	-0.002
	100 %	-20	3519 989 984	-7.7	0.000 000	-0.002
	100 %	-10	3519 989 984	-7.0	0.000 000	-0.002
	100 %	0	3519 989 982	-9.2	0.000 000	-0.003
	100 %	+10	3519 989 984	-7.1	0.000 000	-0.002
	100 %	+30	3519 989 985	-6.0	0.000 000	-0.002
	100 %	+40	3519 989 986	-5.9	0.000 000	-0.002
	100 %	+50	3519 989 984	-7.5	0.000 000	-0.002
	Batt. Endpoint	+20	3519 989 982	-9.6	0.000 000	-0.003

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 009 991	0.0	0.000 000	0.000
	100 %	-30	3485 009 985	-5.8	0.000 000	-0.002
	100 %	-20	3485 009 984	-7.3	0.000 000	-0.002
	100 %	-10	3485 009 984	-7.0	0.000 000	-0.002
	100 %	0	3485 009 985	-5.4	0.000 000	-0.002
	100 %	+10	3485 009 983	-8.0	0.000 000	-0.002
	100 %	+30	3485 009 981	-10.3	0.000 000	-0.003
	100 %	+40	3485 009 984	-7.3	0.000 000	-0.002
	100 %	+50	3485 009 986	-5.4	0.000 000	-0.002
	Batt. Endpoint	+20	3485 009 984	-6.6	0.000 000	-0.002
3514.980	100 %	+20(Ref)	3514 979 993	0.0	0.000 000	0.000
	100 %	-30	3514 979 986	-7.2	0.000 000	-0.002
	100 %	-20	3514 979 988	-4.8	0.000 000	-0.001
	100 %	-10	3514 979 988	-4.6	0.000 000	-0.001
	100 %	0	3514 979 986	-7.2	0.000 000	-0.002
	100 %	+10	3514 979 985	-7.3	0.000 000	-0.002
	100 %	+30	3514 979 988	-4.3	0.000 000	-0.001
	100 %	+40	3514 979 986	-7.0	0.000 000	-0.002
	100 %	+50	3514 979 984	-8.6	0.000 000	-0.002
	Batt. Endpoint	+20	3514 979 987	-5.5	0.000 000	-0.002

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 019 987	0.0	0.000 000	0.000
	100 %	-30	3490 019 978	-9.6	0.000 000	-0.003
	100 %	-20	3490 019 980	-7.4	0.000 000	-0.002
	100 %	-10	3490 019 983	-4.4	0.000 000	-0.001
	100 %	0	3490 019 981	-5.8	0.000 000	-0.002
	100 %	+10	3490 019 980	-7.0	0.000 000	-0.002
	100 %	+30	3490 019 983	-3.9	0.000 000	-0.001
	100 %	+40	3490 019 980	-7.0	0.000 000	-0.002
	100 %	+50	3490 019 980	-7.0	0.000 000	-0.002
	Batt. Endpoint	+20	3490 019 980	-7.4	0.000 000	-0.002
3510.000	100 %	+20(Ref)	3509 999 992	0.0	0.000 000	0.000
	100 %	-30	3509 999 986	-6.2	0.000 000	-0.002
	100 %	-20	3509 999 982	-10.5	0.000 000	-0.003
	100 %	-10	3509 999 985	-7.6	0.000 000	-0.002
	100 %	0	3509 999 985	-7.7	0.000 000	-0.002
	100 %	+10	3509 999 985	-7.6	0.000 000	-0.002
	100 %	+30	3509 999 982	-9.8	0.000 000	-0.003
	100 %	+40	3509 999 985	-7.0	0.000 000	-0.002
	100 %	+50	3509 999 984	-8.5	0.000 000	-0.002
	Batt. Endpoint	+20	3509 999 985	-7.0	0.000 000	-0.002

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 999 993	0.0	0.000 000	0.000
	100 %	-30	3494 999 983	-10.0	0.000 000	-0.003
	100 %	-20	3494 999 984	-8.4	0.000 000	-0.002
	100 %	-10	3494 999 982	-11.1	0.000 000	-0.003
	100 %	0	3494 999 982	-10.3	0.000 000	-0.003
	100 %	+10	3494 999 982	-10.3	0.000 000	-0.003
	100 %	+30	3494 999 985	-7.8	0.000 000	-0.002
	100 %	+40	3494 999 984	-8.8	0.000 000	-0.003
	100 %	+50	3494 999 984	-8.3	0.000 000	-0.002
	Batt. Endpoint	+20	3494 999 984	-9.1	0.000 000	-0.003
3504.990	100 %	+20(Ref)	3504 989 989	0.0	0.000 000	0.000
	100 %	-30	3504 989 981	-7.7	0.000 000	-0.002
	100 %	-20	3504 989 982	-7.1	0.000 000	-0.002
	100 %	-10	3504 989 979	-9.8	0.000 000	-0.003
	100 %	0	3504 989 979	-9.5	0.000 000	-0.003
	100 %	+10	3504 989 980	-8.6	0.000 000	-0.002
	100 %	+30	3504 989 981	-7.9	0.000 000	-0.002
	100 %	+40	3504 989 978	-10.9	0.000 000	-0.003
	100 %	+50	3504 989 981	-8.1	0.000 000	-0.002
	Batt. Endpoint	+20	3504 989 977	-11.6	0.000 000	-0.003

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 009 989	0.0	0.000 000	0.000
	100 %	-30	3500 009 979	-10.5	0.000 000	-0.003
	100 %	-20	3500 009 979	-10.6	0.000 000	-0.003
	100 %	-10	3500 009 981	-8.8	0.000 000	-0.003
	100 %	0	3500 009 980	-8.9	0.000 000	-0.003
	100 %	+10	3500 009 981	-8.0	0.000 000	-0.002
	100 %	+30	3500 009 981	-8.6	0.000 000	-0.002
	100 %	+40	3500 009 980	-9.7	0.000 000	-0.003
	100 %	+50	3500 009 981	-8.3	0.000 000	-0.002
	Batt. Endpoint	+20	3500 009 979	-10.7	0.000 000	-0.003

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	-24.36	14.23	12.08	3.08	H	< 1.00	0.210	23.23	1	1
		QPSK	-24.42	14.17	12.08	3.08	H		0.208	23.17		
		16-QAM	-24.82	13.77	12.08	3.08	H		0.189	22.77		
		64-QAM	-26.23	12.36	12.08	3.08	H		0.137	21.36		
		256-QAM	-28.49	10.10	12.08	3.08	H		0.081	19.10		
3840.00		PI/2 BPSK	-23.98	15.97	11.58	3.20	H		0.272	24.35	1	1
		QPSK	-24.17	15.78	11.58	3.20	H		0.261	24.16		
		16-QAM	-24.71	15.24	11.58	3.20	H		0.230	23.62		
		64-QAM	-26.14	13.81	11.58	3.20	H		0.166	22.19		
		256-QAM	-27.95	12.00	11.58	3.20	H		0.109	20.38		
3975.00		PI/2 BPSK	-22.26	17.65	11.70	3.25	H		0.407	26.10	1	12
		QPSK	-22.58	17.33	11.70	3.25	H		0.378	25.78		
		16-QAM	-22.64	17.27	11.70	3.25	H		0.373	25.72		
		64-QAM	-24.46	15.45	11.70	3.25	H		0.246	23.90		
		256-QAM	-26.30	13.61	11.70	3.25	H		0.161	22.06		

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	-24.33	14.17	12.08	3.08	H	< 1.00	0.208	23.17	1	19
		QPSK	-24.42	14.08	12.08	3.08	H		0.203	23.08		
		16-QAM	-24.97	13.53	12.08	3.08	H		0.179	22.53		
		64-QAM	-26.43	12.07	12.08	3.08	H		0.128	21.07		
		256-QAM	-28.30	10.20	12.08	3.08	H		0.083	19.20		
3840.00	Sub6 n77(78)/ 15 MHz [30 kHz]	PI/2 BPSK	-23.94	16.01	11.58	3.20	H	< 1.00	0.275	24.39	1	1
		QPSK	-24.03	15.92	11.58	3.20	H		0.269	24.30		
		16-QAM	-24.39	15.56	11.58	3.20	H		0.248	23.94		
		64-QAM	-25.95	14.00	11.58	3.20	H		0.173	22.38		
		256-QAM	-28.04	11.91	11.58	3.20	H		0.107	20.29		
3972.48		PI/2 BPSK	-22.45	17.41	11.69	3.25	H	< 1.00	0.385	25.85	1	1
		QPSK	-22.64	17.22	11.69	3.25	H		0.368	25.66		
		16-QAM	-22.86	17.00	11.69	3.25	H		0.350	25.44		
		64-QAM	-24.59	15.27	11.69	3.25	H		0.235	23.71		
		256-QAM	-26.31	13.55	11.69	3.25	H		0.158	21.99		

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	-23.79	14.71	12.08	3.08	H	< 1.00	0.235	23.71	1	1
		QPSK	-24.11	14.39	12.08	3.08	H		0.218	23.39		
		16-QAM	-24.49	14.01	12.08	3.08	H		0.200	23.01		
		64-QAM	-25.76	12.74	12.08	3.08	H		0.149	21.74		
		256-QAM	-28.15	10.35	12.08	3.08	H		0.086	19.35		
3840.00	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-24.08	15.87	11.58	3.20	H	< 1.00	0.266	24.25	1	1
		QPSK	-24.20	15.75	11.58	3.20	H		0.259	24.13		
		16-QAM	-24.51	15.44	11.58	3.20	H		0.241	23.82		
		64-QAM	-25.83	14.12	11.58	3.20	H		0.178	22.50		
		256-QAM	-28.04	11.91	11.58	3.20	H		0.107	20.29		
3969.99		PI/2 BPSK	-22.45	17.41	11.69	3.25	H	< 1.00	0.385	25.85	1	25
		QPSK	-22.53	17.33	11.69	3.25	H		0.378	25.77		
		16-QAM	-22.78	17.08	11.69	3.25	H		0.357	25.52		
		64-QAM	-24.57	15.29	11.69	3.25	H		0.236	23.73		
		256-QAM	-26.41	13.45	11.69	3.25	H		0.155	21.89		

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	-23.85	14.72	12.08	3.11	H	< 1.00	0.234	23.69	1	1
		QPSK	-24.01	14.56	12.08	3.11	H		0.225	23.53		
		16-QAM	-24.21	14.36	12.08	3.11	H		0.215	23.33		
		64-QAM	-25.85	12.72	12.08	3.11	H		0.148	21.69		
		256-QAM	-27.77	10.80	12.08	3.11	H		0.095	19.77		
3840.00		PI/2 BPSK	-23.95	16.00	11.58	3.20	H		0.274	24.38	1	1
		QPSK	-24.04	15.91	11.58	3.20	H		0.269	24.29		
		16-QAM	-24.36	15.59	11.58	3.20	H		0.250	23.97		
		64-QAM	-25.98	13.97	11.58	3.20	H		0.172	22.35		
		256-QAM	-27.96	11.99	11.58	3.20	H		0.109	20.37		
3967.50		PI/2 BPSK	-22.23	17.63	11.69	3.25	H		0.405	26.07	1	63
		QPSK	-22.57	17.29	11.69	3.25	H		0.374	25.73		
		16-QAM	-22.98	16.88	11.69	3.25	H		0.340	25.32		
		64-QAM	-24.52	15.34	11.69	3.25	H		0.239	23.78		
		256-QAM	-26.33	13.53	11.69	3.25	H		0.157	21.97		

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	-23.82	14.75	12.08	3.11	H	< 1.00	0.236	23.72	1	1
		QPSK	-23.97	14.60	12.08	3.11	H		0.228	23.57		
		16-QAM	-24.38	14.19	12.08	3.11	H		0.207	23.16		
		64-QAM	-25.80	12.77	12.08	3.11	H		0.149	21.74		
		256-QAM	-27.74	10.83	12.08	3.11	H		0.096	19.80		
3840.00	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-23.58	16.37	11.58	3.20	H	< 1.00	0.299	24.75	1	76
		QPSK	-23.73	16.22	11.58	3.20	H		0.288	24.60		
		16-QAM	-24.64	15.31	11.58	3.20	H		0.234	23.69		
		64-QAM	-25.61	14.34	11.58	3.20	H		0.187	22.72		
		256-QAM	-27.81	12.14	11.58	3.20	H		0.113	20.52		
3964.98		PI/2 BPSK	-22.12	17.81	11.67	3.24	H	< 1.00	0.421	26.24	1	39
		QPSK	-22.38	17.55	11.67	3.24	H		0.396	25.98		
		16-QAM	-22.81	17.12	11.67	3.24	H		0.359	25.55		
		64-QAM	-24.14	15.79	11.67	3.24	H		0.264	24.22		
		256-QAM	-26.48	13.45	11.67	3.24	H		0.154	21.88		

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	Sub6 n77(78)/ 40 MHz [30 kHz]	PI/2 BPSK	-23.73	14.90	12.07	3.13	H	< 1.00	0.242	23.84	1	53
		QPSK	-23.77	14.86	12.07	3.13	H		0.240	23.80		
		16-QAM	-24.20	14.43	12.07	3.13	H		0.217	23.37		
		64-QAM	-25.76	12.87	12.07	3.13	H		0.152	21.81		
		256-QAM	-27.84	10.79	12.07	3.13	H		0.094	19.73		
3840.00		PI/2 BPSK	-24.08	15.87	11.58	3.20	H		0.266	24.25	1	1
		QPSK	-24.16	15.79	11.58	3.20	H		0.261	24.17		
		16-QAM	-24.43	15.52	11.58	3.20	H		0.246	23.90		
		64-QAM	-26.11	13.84	11.58	3.20	H		0.167	22.22		
		256-QAM	-28.01	11.94	11.58	3.20	H		0.108	20.32		
3960.00		PI/2 BPSK	-22.36	17.64	11.65	3.24	H		0.403	26.05	1	53
		QPSK	-22.42	17.58	11.65	3.24	H		0.397	25.99		
		16-QAM	-22.68	17.32	11.65	3.24	H		0.374	25.73		
		64-QAM	-24.25	15.75	11.65	3.24	H		0.261	24.16		
		256-QAM	-26.30	13.70	11.65	3.24	H		0.163	22.11		

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	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-23.71	15.05	12.06	3.15	H	< 1.00	0.249	23.96	1	66
		QPSK	-23.75	15.01	12.06	3.15	H		0.247	23.92		
		16-QAM	-24.21	14.55	12.06	3.15	H		0.222	23.46		
		64-QAM	-25.40	13.36	12.06	3.15	H		0.169	22.27		
		256-QAM	-27.66	11.10	12.06	3.15	H		0.100	20.01		
3840.00		PI/2 BPSK	-23.97	15.98	11.58	3.20	H		0.273	24.36	1	66
		QPSK	-24.09	15.86	11.58	3.20	H		0.266	24.24		
		16-QAM	-24.62	15.33	11.58	3.20	H		0.235	23.71		
		64-QAM	-25.96	13.99	11.58	3.20	H		0.173	22.37		
		256-QAM	-28.14	11.81	11.58	3.20	H		0.105	20.19		
3954.99		PI/2 BPSK	-22.08	17.95	11.63	3.23	H		0.432	26.35	1	66
		QPSK	-22.28	17.75	11.63	3.23	H		0.412	26.15		
		16-QAM	-22.99	17.04	11.63	3.23	H		0.350	25.44		
		64-QAM	-24.72	15.31	11.63	3.23	H		0.235	23.71		
		256-QAM	-26.41	13.62	11.63	3.23	H		0.159	22.02		

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	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-24.04	14.86	12.04	3.17	H	< 1.00	0.236	23.73	1	1
		QPSK	-24.07	14.83	12.04	3.17	H		0.234	23.70		
		16-QAM	-24.37	14.53	12.04	3.17	H		0.219	23.40		
		64-QAM	-25.67	13.23	12.04	3.17	H		0.162	22.10		
		256-QAM	-27.73	11.17	12.04	3.17	H		0.101	20.04		
3840.00		PI/2 BPSK	-23.86	16.09	11.58	3.20	H		0.280	24.47	1	1
		QPSK	-24.04	15.91	11.58	3.20	H		0.269	24.29		
		16-QAM	-24.41	15.54	11.58	3.20	H		0.247	23.92		
		64-QAM	-26.02	13.93	11.58	3.20	H		0.170	22.31		
		256-QAM	-27.94	12.01	11.58	3.20	H		0.109	20.39		
3949.98		PI/2 BPSK	-22.17	17.88	11.61	3.22	H		0.424	26.27	1	160
		QPSK	-22.56	17.49	11.61	3.22	H		0.387	25.88		
		16-QAM	-22.87	17.18	11.61	3.22	H		0.361	25.57		
		64-QAM	-24.57	15.48	11.61	3.22	H		0.244	23.87		
		256-QAM	-26.23	13.82	11.61	3.22	H		0.166	22.21		

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	-23.83	15.19	12.02	3.18	H	< 1.00	0.253	24.03	1	1
		QPSK	-23.94	15.08	12.02	3.18	H		0.247	23.92		
		16-QAM	-23.98	15.04	12.02	3.18	H		0.244	23.88		
		64-QAM	-25.87	13.15	12.02	3.18	H		0.158	21.99		
		256-QAM	-28.03	10.99	12.02	3.18	H		0.096	19.83		
3840.00		PI/2 BPSK	-23.82	16.13	11.58	3.20	H		0.283	24.51	1	187
		QPSK	-23.99	15.96	11.58	3.20	H		0.272	24.34		
		16-QAM	-24.08	15.87	11.58	3.20	H		0.266	24.25		
		64-QAM	-25.66	14.29	11.58	3.20	H		0.185	22.67		
		256-QAM	-27.96	11.99	11.58	3.20	H		0.109	20.37		
3945.00		PI/2 BPSK	-22.57	17.46	11.60	3.23	H		0.383	25.83	1	94
		QPSK	-22.66	17.37	11.60	3.23	H		0.375	25.74		
		16-QAM	-23.13	16.90	11.60	3.23	H		0.337	25.27		
		64-QAM	-24.72	15.31	11.60	3.23	H		0.233	23.68		
		256-QAM	-26.50	13.53	11.60	3.23	H		0.155	21.90		

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	-23.59	15.56	12.00	3.19	H	< 1.00	0.274	24.37	1	1
		QPSK	-23.64	15.51	12.00	3.19	H		0.270	24.32		
		16-QAM	-24.24	14.91	12.00	3.19	H		0.236	23.72		
		64-QAM	-25.62	13.53	12.00	3.19	H		0.171	22.34		
		256-QAM	-27.55	11.60	12.00	3.19	H		0.110	20.41		
3840.00	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-23.48	16.47	11.58	3.20	H	< 1.00	0.306	24.85	1	215
		QPSK	-23.57	16.38	11.58	3.20	H		0.299	24.76		
		16-QAM	-24.02	15.93	11.58	3.20	H		0.270	24.31		
		64-QAM	-25.29	14.66	11.58	3.20	H		0.201	23.04		
		256-QAM	-27.57	12.38	11.58	3.20	H		0.119	20.76		
3939.99		PI/2 BPSK	-22.31	17.69	11.58	3.23	H	< 1.00	0.402	26.04	1	215
		QPSK	-22.42	17.58	11.58	3.23	H		0.392	25.93		
		16-QAM	-22.82	17.18	11.58	3.23	H		0.357	25.53		
		64-QAM	-24.38	15.62	11.58	3.23	H		0.250	23.97		
		256-QAM	-26.66	13.34	11.58	3.23	H		0.148	21.69		

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	-23.43	15.74	11.97	3.18	H	< 1.00	0.284	24.53	1	1
		QPSK	-23.52	15.65	11.97	3.18	H		0.278	24.44		
		16-QAM	-24.09	15.08	11.97	3.18	H		0.244	23.87		
		64-QAM	-25.74	13.43	11.97	3.18	H		0.167	22.22		
		256-QAM	-27.66	11.51	11.97	3.18	H		0.107	20.30		
3840.00	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-23.39	16.56	11.58	3.20	H	< 1.00	0.312	24.94	1	1
		QPSK	-23.45	16.50	11.58	3.20	H		0.308	24.88		
		16-QAM	-24.20	15.75	11.58	3.20	H		0.259	24.13		
		64-QAM	-25.50	14.45	11.58	3.20	H		0.192	22.83		
		256-QAM	-27.52	12.43	11.58	3.20	H		0.121	20.81		
3934.98		PI/2 BPSK	-22.64	17.31	11.56	3.24	H	< 1.00	0.366	25.63	1	122
		QPSK	-22.79	17.16	11.56	3.24	H		0.353	25.48		
		16-QAM	-23.44	16.51	11.56	3.24	H		0.304	24.83		
		64-QAM	-24.83	15.12	11.56	3.24	H		0.221	23.44		
		256-QAM	-26.82	13.13	11.56	3.24	H		0.140	21.45		

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		PI/2 BPSK	-23.57	15.62	11.95	3.17	H	< 1.00	0.275	24.40	1	1
		QPSK	-23.61	15.58	11.95	3.17	H		0.273	24.36		
		16-QAM	-23.92	15.27	11.95	3.17	H		0.254	24.05		
		64-QAM	-25.25	13.94	11.95	3.17	H		0.187	22.72		
		256-QAM	-27.23	11.96	11.95	3.17	H		0.119	20.74		
3840.00	Sub6 n77(78)/ 100 MHz [30 kHz]	PI/2 BPSK	-23.40	16.55	11.58	3.20	H	< 1.00	0.311	24.93	1	271
		QPSK	-23.42	16.53	11.58	3.20	H		0.310	24.91		
		16-QAM	-23.75	16.20	11.58	3.20	H		0.287	24.58		
		64-QAM	-25.32	14.63	11.58	3.20	H		0.200	23.01		
		256-QAM	-27.09	12.86	11.58	3.20	H		0.133	21.24		
3930.00		PI/2 BPSK	-22.15	17.75	11.54	3.26	H	< 1.00	0.401	26.03	1	271
		QPSK	-22.36	17.54	11.54	3.26	H		0.382	25.82		
		16-QAM	-22.43	17.47	11.54	3.26	H		0.376	25.75		
		64-QAM	-24.28	15.62	11.54	3.26	H		0.246	23.90		
		256-QAM	-26.45	13.45	11.54	3.26	H		0.149	21.73		

9.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>N77(78)</u>
Bandwidth:	<u>50 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
648334 (3725.01)	7 450.02	-57.18	11.34	-49.52	4.60	H	-42.78	-13.00	1	66
	11 175.03	-57.59	12.11	-46.37	5.87	V	-40.13	-13.00		
	14 900.04	-56.48	13.97	-50.23	6.75	V	-43.01	-13.00		
656000 (3840.00)	7 680.00	-59.95	11.47	-52.64	4.70	H	-45.87	-13.00	1	66
	11 520.00	-61.83	12.34	-50.52	5.87	H	-44.05	-13.00		
	15 360.00	-60.10	15.37	-53.52	6.88	V	-45.03	-13.00		
663666 (3954.99)	7 909.98	-61.70	11.03	-54.16	4.76	V	-47.89	-13.00	1	66
	11 864.97	-61.61	12.56	-51.67	6.02	H	-45.13	-13.00		
	15 819.96	-61.74	16.06	-53.28	7.00	V	-44.22	-13.00		

9.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n77(78)	10 MHz	3840.00	BPSK	Full RB	0	4.60
			QPSK			5.59
			16-QAM			6.19
			64-QAM			6.46
			256-QAM			6.47
	15 MHz		BPSK			4.56
			QPSK			5.60
			16-QAM			6.20
			64-QAM			6.48
			256-QAM			6.33
	20 MHz		BPSK			5.49
			QPSK			5.69
			16-QAM			6.24
			64-QAM			6.48
			256-QAM			6.38
	25 MHz		BPSK			5.38
			QPSK			5.66
			16-QAM			6.25
			64-QAM			6.58
			256-QAM			6.43
	30 MHz		BPSK			5.03
			QPSK			5.64
			16-QAM			6.26
			64-QAM			6.54
			256-QAM			6.39
	40 MHz		BPSK			6.00
			QPSK			5.96
			16-QAM			6.30
			64-QAM			6.54
			256-QAM			6.41
	50 MHz		BPSK			4.51
			QPSK			5.47
			16-QAM			5.76
			64-QAM			6.08
			256-QAM			6.19
	60 MHz		BPSK			5.58
			QPSK			5.69
			16-QAM			5.86
			64-QAM			6.15
			256-QAM			6.25
	70 MHz		BPSK			4.52
			QPSK			5.48
			16-QAM			5.86
			64-QAM			6.11
			256-QAM			6.29

	80 MHz		BPSK			5.05
			QPSK			5.50
			16-QAM			5.84
			64-QAM			6.07
			256-QAM			6.22
	90 MHz		BPSK			5.49
			QPSK			5.65
			16-QAM			5.83
			64-QAM			6.10
			256-QAM			6.25
	100 MHz		BPSK			4.50
			QPSK			5.48
			16-QAM			5.82
			64-QAM			6.10
			256-QAM			6.28

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 424 ~ 483.

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	BPSK	Full RB	0	8.6887
			QPSK			8.6559
			16-QAM			8.6670
			64-QAM			8.6679
			256-QAM			8.6722
	15 MHz		BPSK			12.979
			QPSK			12.942
			16-QAM			12.951
			64-QAM			12.996
			256-QAM			12.933
	20 MHz		BPSK			17.953
			QPSK			17.969
			16-QAM			17.984
			64-QAM			18.026
			256-QAM			17.982
	25 MHz		BPSK			23.061
			QPSK			23.061
			16-QAM			23.043
			64-QAM			23.012
			256-QAM			23.051
	30 MHz		BPSK			26.951
			QPSK			26.960
			16-QAM			26.938
			64-QAM			26.936
			256-QAM			26.905
	40 MHz		BPSK			35.933
			QPSK			35.961
			16-QAM			35.823
			64-QAM			35.977
			256-QAM			35.956
	50 MHz		BPSK			45.953
			QPSK			46.008
			16-QAM			45.918
			64-QAM			46.036
			256-QAM			45.908
	60 MHz		BPSK			58.129
			QPSK			58.207
			16-QAM			58.175
			64-QAM			58.333
			256-QAM			58.247
	70 MHz		BPSK			64.714
			QPSK			64.607
			16-QAM			64.669
			64-QAM			64.852
			256-QAM			64.774

	80 MHz		BPSK			77.532
			QPSK			77.572
			16-QAM			77.718
			64-QAM			77.597
			256-QAM			77.638
	90 MHz		BPSK			87.277
			QPSK			87.230
			16-QAM			87.145
			64-QAM			86.984
			256-QAM			87.324
	100 MHz		BPSK			97.024
			QPSK			96.788
			16-QAM			96.710
			64-QAM			96.867
			256-QAM			96.953

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 484 ~ 543.

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	8.8535	30.815	-62.356	-31.541	-13.00
		3840.000	9.9601	30.815	-63.888	-33.073	
		3975.000	10.0000	30.815	-62.267	-31.452	
	15	3707.520	9.8405	30.815	-62.595	-31.780	
		3840.000	9.6810	30.815	-63.406	-32.591	
		3972.480	8.0160	30.815	-63.372	-32.557	
	20	3710.010	6.0419	30.815	-63.590	-32.775	
		3840.000	7.4377	30.815	-63.248	-32.433	
		3969.990	8.8136	30.815	-63.240	-32.425	
	25	3712.500	8.5942	30.815	-62.915	-32.100	
		3840.000	8.2752	30.815	-61.656	-30.841	
		3967.500	4.8754	30.200	-62.639	-32.439	
	30	3715.020	8.0559	30.815	-63.749	-32.934	
		3840.000	8.6341	30.815	-61.970	-31.155	
		3964.980	8.2951	30.815	-63.387	-32.572	
	40	3720.000	4.8355	30.200	-63.490	-33.290	
		3840.000	9.8704	30.815	-62.111	-31.296	
		3960.000	8.1556	30.815	-63.485	-32.670	
	50	3725.010	4.9253	30.200	-63.225	-33.025	
		3840.000	6.0220	30.815	-63.084	-32.269	
		3954.990	4.9253	30.200	-63.273	-33.073	
	60	3730.020	4.9751	30.200	-63.524	-33.324	
		3840.000	8.8933	30.815	-62.704	-31.889	
		3949.980	5.1945	30.815	-63.111	-32.296	
	70	3735.000	9.9402	30.815	-63.132	-32.317	
		3840.000	9.6810	30.815	-63.764	-32.949	
		3945.000	9.3520	30.815	-63.177	-32.362	
	80	3740.010	8.4746	30.815	-62.925	-32.110	
		3840.000	9.1526	30.815	-63.189	-32.374	
		3939.990	9.8903	30.815	-63.743	-32.928	
	90	3745.020	8.5942	30.815	-63.688	-32.873	
		3840.000	8.3151	30.815	-63.704	-32.889	
		3934.980	9.9900	30.815	-62.525	-31.710	
	100	3750.000	9.4616	30.815	-62.937	-32.122	
		3840.000	9.0529	30.815	-63.140	-32.325	
		3930.000	9.6511	30.815	-64.125	-33.310	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 544 ~ 615.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Attenuator + Power Splitter

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.494
1 – 5	30.200
5 – 10	30.815
10 – 15	31.340
15 – 20	31.713
Above 20	32.355

9.6 BAND EDGE

1. Plots of the EUT's Band Edge are shown Page 616 ~ 759.
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 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 999 993	0.0	0.000 000	0.000
	100 %	-30	3704 999 987	-5.4	0.000 000	-0.001
	100 %	-20	3704 999 985	-8.1	0.000 000	-0.002
	100 %	-10	3704 999 987	-6.0	0.000 000	-0.002
	100 %	0	3704 999 989	-3.9	0.000 000	-0.001
	100 %	+10	3704 999 986	-6.3	0.000 000	-0.002
	100 %	+30	3704 999 988	-4.5	0.000 000	-0.001
	100 %	+40	3704 999 987	-6.1	0.000 000	-0.002
	100 %	+50	3704 999 984	-9.0	0.000 000	-0.002
	Batt. Endpoint	+20	3704 999 988	-5.0	0.000 000	-0.001
3975.000	100 %	+20(Ref)	3974 999 994	0.0	0.000 000	0.000
	100 %	-30	3974 999 987	-6.3	0.000 000	-0.002
	100 %	-20	3974 999 985	-8.3	0.000 000	-0.002
	100 %	-10	3974 999 987	-6.3	0.000 000	-0.002
	100 %	0	3974 999 988	-5.0	0.000 000	-0.001
	100 %	+10	3974 999 987	-6.6	0.000 000	-0.002
	100 %	+30	3974 999 987	-6.7	0.000 000	-0.002
	100 %	+40	3974 999 988	-5.4	0.000 000	-0.001
	100 %	+50	3974 999 987	-6.8	0.000 000	-0.002
	Batt. Endpoint	+20	3974 999 985	-8.5	0.000 000	-0.002

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 519 994	0.0	0.000 000	0.000
	100 %	-30	3707 519 993	-1.6	0.000 000	0.000
	100 %	-20	3707 519 989	-5.7	0.000 000	-0.002
	100 %	-10	3707 519 986	-8.8	0.000 000	-0.002
	100 %	0	3707 519 987	-7.7	0.000 000	-0.002
	100 %	+10	3707 519 988	-6.9	0.000 000	-0.002
	100 %	+30	3707 519 989	-5.4	0.000 000	-0.001
	100 %	+40	3707 519 987	-7.2	0.000 000	-0.002
	100 %	+50	3707 519 988	-6.2	0.000 000	-0.002
	Batt. Endpoint	+20	3707 519 988	-6.6	0.000 000	-0.002
3972.480	100 %	+20(Ref)	3972 479 990	0.0	0.000 000	0.000
	100 %	-30	3972 479 980	-10.4	0.000 000	-0.003
	100 %	-20	3972 479 983	-7.0	0.000 000	-0.002
	100 %	-10	3972 479 984	-6.3	0.000 000	-0.002
	100 %	0	3972 479 985	-4.9	0.000 000	-0.001
	100 %	+10	3972 479 984	-6.8	0.000 000	-0.002
	100 %	+30	3972 479 982	-8.1	0.000 000	-0.002
	100 %	+40	3972 479 983	-7.5	0.000 000	-0.002
	100 %	+50	3972 479 981	-9.4	0.000 000	-0.002
	Batt. Endpoint	+20	3972 479 986	-4.2	0.000 000	-0.001

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 009 997	0.0	0.000 000	0.000
	100 %	-30	3710 009 993	-3.3	0.000 000	-0.001
	100 %	-20	3710 009 991	-5.8	0.000 000	-0.002
	100 %	-10	3710 009 991	-5.6	0.000 000	-0.002
	100 %	0	3710 009 991	-5.9	0.000 000	-0.002
	100 %	+10	3710 009 990	-6.1	0.000 000	-0.002
	100 %	+30	3710 009 990	-6.3	0.000 000	-0.002
	100 %	+40	3710 009 991	-5.7	0.000 000	-0.002
	100 %	+50	3710 009 990	-6.9	0.000 000	-0.002
	Batt. Endpoint	+20	3710 009 990	-6.8	0.000 000	-0.002
3969.990	100 %	+20(Ref)	3969 989 996	0.0	0.000 000	0.000
	100 %	-30	3969 989 989	-7.1	0.000 000	-0.002
	100 %	-20	3969 989 989	-6.8	0.000 000	-0.002
	100 %	-10	3969 989 992	-4.2	0.000 000	-0.001
	100 %	0	3969 989 988	-8.1	0.000 000	-0.002
	100 %	+10	3969 989 991	-5.4	0.000 000	-0.001
	100 %	+30	3969 989 990	-5.8	0.000 000	-0.001
	100 %	+40	3969 989 989	-6.7	0.000 000	-0.002
	100 %	+50	3969 989 989	-7.0	0.000 000	-0.002
	Batt. Endpoint	+20	3969 989 991	-5.4	0.000 000	-0.001

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 499 994	0.0	0.000 000	0.000
	100 %	-30	3712 499 987	-6.6	0.000 000	-0.002
	100 %	-20	3712 499 986	-8.3	0.000 000	-0.002
	100 %	-10	3712 499 986	-8.0	0.000 000	-0.002
	100 %	0	3712 499 987	-7.0	0.000 000	-0.002
	100 %	+10	3712 499 990	-4.1	0.000 000	-0.001
	100 %	+30	3712 499 986	-8.2	0.000 000	-0.002
	100 %	+40	3712 499 986	-7.5	0.000 000	-0.002
	100 %	+50	3712 499 986	-7.5	0.000 000	-0.002
	Batt. Endpoint	+20	3712 499 986	-8.1	0.000 000	-0.002
3967.500	100 %	+20(Ref)	3967 499 995	0.0	0.000 000	0.000
	100 %	-30	3967 499 990	-4.7	0.000 000	-0.001
	100 %	-20	3967 499 989	-5.6	0.000 000	-0.001
	100 %	-10	3967 499 991	-3.9	0.000 000	-0.001
	100 %	0	3967 499 994	-0.6	0.000 000	0.000
	100 %	+10	3967 499 991	-3.9	0.000 000	-0.001
	100 %	+30	3967 499 986	-8.2	0.000 000	-0.002
	100 %	+40	3967 499 989	-5.4	0.000 000	-0.001
	100 %	+50	3967 499 990	-4.3	0.000 000	-0.001
	Batt. Endpoint	+20	3967 499 989	-5.3	0.000 000	-0.001

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 019 995	0.0	0.000 000	0.000
	100 %	-30	3715 019 988	-6.6	0.000 000	-0.002
	100 %	-20	3715 019 986	-9.1	0.000 000	-0.002
	100 %	-10	3715 019 991	-3.9	0.000 000	-0.001
	100 %	0	3715 019 987	-7.2	0.000 000	-0.002
	100 %	+10	3715 019 986	-8.4	0.000 000	-0.002
	100 %	+30	3715 019 991	-3.7	0.000 000	-0.001
	100 %	+40	3715 019 988	-6.5	0.000 000	-0.002
	100 %	+50	3715 019 993	-2.1	0.000 000	-0.001
	Batt. Endpoint	+20	3715 019 990	-4.3	0.000 000	-0.001
3964.980	100 %	+20(Ref)	3964 979 996	0.0	0.000 000	0.000
	100 %	-30	3964 979 991	-5.6	0.000 000	-0.001
	100 %	-20	3964 979 993	-3.6	0.000 000	-0.001
	100 %	-10	3964 979 989	-7.4	0.000 000	-0.002
	100 %	0	3964 979 989	-7.0	0.000 000	-0.002
	100 %	+10	3964 979 988	-7.7	0.000 000	-0.002
	100 %	+30	3964 979 991	-5.6	0.000 000	-0.001
	100 %	+40	3964 979 991	-4.8	0.000 000	-0.001
	100 %	+50	3964 979 989	-7.5	0.000 000	-0.002
	Batt. Endpoint	+20	3964 979 991	-5.4	0.000 000	-0.001

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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)	3719 999 990	0.0	0.000 000	0.000
	100 %	-30	3719 999 980	-9.6	0.000 000	-0.003
	100 %	-20	3719 999 982	-8.1	0.000 000	-0.002
	100 %	-10	3719 999 982	-7.5	0.000 000	-0.002
	100 %	0	3719 999 982	-8.2	0.000 000	-0.002
	100 %	+10	3719 999 982	-7.9	0.000 000	-0.002
	100 %	+30	3719 999 983	-7.2	0.000 000	-0.002
	100 %	+40	3719 999 983	-6.9	0.000 000	-0.002
	100 %	+50	3719 999 983	-7.0	0.000 000	-0.002
	Batt. Endpoint	+20	3719 999 982	-7.6	0.000 000	-0.002
3960.000	100 %	+20(Ref)	3959 999 995	0.0	0.000 000	0.000
	100 %	-30	3959 999 988	-6.7	0.000 000	-0.002
	100 %	-20	3959 999 985	-10.1	0.000 000	-0.003
	100 %	-10	3959 999 988	-6.6	0.000 000	-0.002
	100 %	0	3959 999 986	-9.0	0.000 000	-0.002
	100 %	+10	3959 999 989	-5.9	0.000 000	-0.001
	100 %	+30	3959 999 986	-8.8	0.000 000	-0.002
	100 %	+40	3959 999 990	-5.3	0.000 000	-0.001
	100 %	+50	3959 999 988	-7.1	0.000 000	-0.002
	Batt. Endpoint	+20	3959 999 984	-10.6	0.000 000	-0.003

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 009 995	0.0	0.000 000	0.000
	100 %	-30	3725 009 992	-3.0	0.000 000	-0.001
	100 %	-20	3725 009 986	-8.8	0.000 000	-0.002
	100 %	-10	3725 009 992	-3.0	0.000 000	-0.001
	100 %	0	3725 009 989	-6.0	0.000 000	-0.002
	100 %	+10	3725 009 988	-6.9	0.000 000	-0.002
	100 %	+30	3725 009 988	-6.8	0.000 000	-0.002
	100 %	+40	3725 009 991	-3.5	0.000 000	-0.001
	100 %	+50	3725 009 986	-9.1	0.000 000	-0.002
	Batt. Endpoint	+20	3725 009 989	-5.3	0.000 000	-0.001
3954.990	100 %	+20(Ref)	3954 989 994	0.0	0.000 000	0.000
	100 %	-30	3954 989 989	-5.5	0.000 000	-0.001
	100 %	-20	3954 989 987	-7.9	0.000 000	-0.002
	100 %	-10	3954 989 988	-6.7	0.000 000	-0.002
	100 %	0	3954 989 988	-6.9	0.000 000	-0.002
	100 %	+10	3954 989 987	-7.8	0.000 000	-0.002
	100 %	+30	3954 989 985	-9.4	0.000 000	-0.002
	100 %	+40	3954 989 986	-8.7	0.000 000	-0.002
	100 %	+50	3954 989 989	-5.3	0.000 000	-0.001
	Batt. Endpoint	+20	3954 989 987	-6.9	0.000 000	-0.002

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 019 992	0.0	0.000 000	0.000
	100 %	-30	3730 019 983	-9.7	0.000 000	-0.003
	100 %	-20	3730 019 985	-7.1	0.000 000	-0.002
	100 %	-10	3730 019 986	-6.0	0.000 000	-0.002
	100 %	0	3730 019 990	-2.0	0.000 000	-0.001
	100 %	+10	3730 019 986	-6.1	0.000 000	-0.002
	100 %	+30	3730 019 987	-5.2	0.000 000	-0.001
	100 %	+40	3730 019 984	-8.2	0.000 000	-0.002
	100 %	+50	3730 019 984	-8.2	0.000 000	-0.002
	Batt. Endpoint	+20	3730 019 985	-7.6	0.000 000	-0.002
3949.980	100 %	+20(Ref)	3949 979 993	0.0	0.000 000	0.000
	100 %	-30	3949 979 985	-7.8	0.000 000	-0.002
	100 %	-20	3949 979 985	-7.7	0.000 000	-0.002
	100 %	-10	3949 979 988	-5.4	0.000 000	-0.001
	100 %	0	3949 979 985	-7.8	0.000 000	-0.002
	100 %	+10	3949 979 985	-8.1	0.000 000	-0.002
	100 %	+30	3949 979 986	-7.4	0.000 000	-0.002
	100 %	+40	3949 979 985	-8.2	0.000 000	-0.002
	100 %	+50	3949 979 990	-3.5	0.000 000	-0.001
	Batt. Endpoint	+20	3949 979 986	-6.7	0.000 000	-0.002

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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)	3734 999 989	0.0	0.000 000	0.000
	100 %	-30	3734 999 979	-9.8	0.000 000	-0.003
	100 %	-20	3734 999 983	-5.7	0.000 000	-0.002
	100 %	-10	3734 999 977	-11.9	0.000 000	-0.003
	100 %	0	3734 999 980	-8.4	0.000 000	-0.002
	100 %	+10	3734 999 979	-9.8	0.000 000	-0.003
	100 %	+30	3734 999 978	-10.6	0.000 000	-0.003
	100 %	+40	3734 999 979	-9.7	0.000 000	-0.003
	100 %	+50	3734 999 979	-9.6	0.000 000	-0.003
	Batt. Endpoint	+20	3734 999 981	-7.4	0.000 000	-0.002
3945.000	100 %	+20(Ref)	3944 999 991	0.0	0.000 000	0.000
	100 %	-30	3944 999 987	-4.4	0.000 000	-0.001
	100 %	-20	3944 999 985	-6.5	0.000 000	-0.002
	100 %	-10	3944 999 986	-5.2	0.000 000	-0.001
	100 %	0	3944 999 986	-5.2	0.000 000	-0.001
	100 %	+10	3944 999 984	-6.8	0.000 000	-0.002
	100 %	+30	3944 999 983	-7.9	0.000 000	-0.002
	100 %	+40	3944 999 984	-7.1	0.000 000	-0.002
	100 %	+50	3944 999 989	-2.5	0.000 000	-0.001
	Batt. Endpoint	+20	3944 999 988	-3.6	0.000 000	-0.001

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 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 009 993	0.0	0.000 000	0.000
	100 %	-30	3740 009 985	-8.1	0.000 000	-0.002
	100 %	-20	3740 009 983	-9.9	0.000 000	-0.003
	100 %	-10	3740 009 985	-7.8	0.000 000	-0.002
	100 %	0	3740 009 986	-7.5	0.000 000	-0.002
	100 %	+10	3740 009 984	-9.5	0.000 000	-0.003
	100 %	+30	3740 009 983	-9.6	0.000 000	-0.003
	100 %	+40	3740 009 982	-11.3	0.000 000	-0.003
	100 %	+50	3740 009 984	-8.7	0.000 000	-0.002
	Batt. Endpoint	+20	3740 009 982	-11.1	0.000 000	-0.003
3939.990	100 %	+20(Ref)	3939 989 994	0.0	0.000 000	0.000
	100 %	-30	3939 989 990	-3.5	0.000 000	-0.001
	100 %	-20	3939 989 990	-3.6	0.000 000	-0.001
	100 %	-10	3939 989 990	-3.7	0.000 000	-0.001
	100 %	0	3939 989 987	-6.8	0.000 000	-0.002
	100 %	+10	3939 989 987	-6.8	0.000 000	-0.002
	100 %	+30	3939 989 992	-2.0	0.000 000	0.000
	100 %	+40	3939 989 989	-4.7	0.000 000	-0.001
	100 %	+50	3939 989 989	-5.2	0.000 000	-0.001
	Batt. Endpoint	+20	3939 989 987	-6.4	0.000 000	-0.002

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

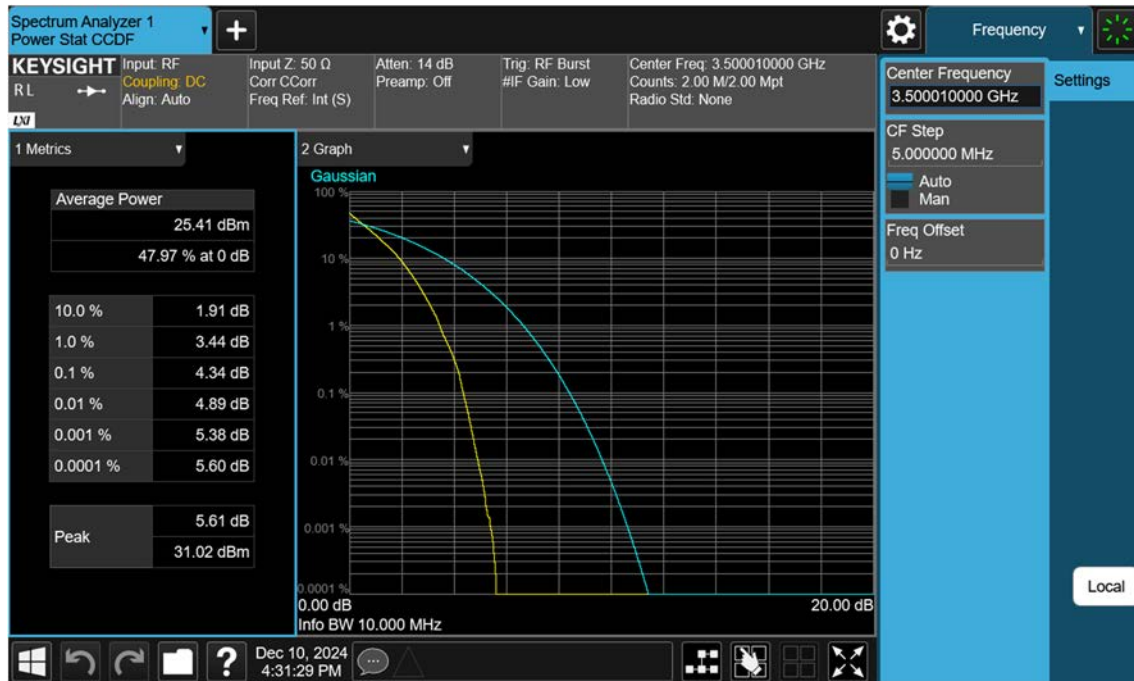
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3745.020	100 %	+20(Ref)	3745 019 992	0.0	0.000 000	0.000
	100 %	-30	3745 019 984	-8.1	0.000 000	-0.002
	100 %	-20	3745 019 985	-6.6	0.000 000	-0.002
	100 %	-10	3745 019 983	-8.3	0.000 000	-0.002
	100 %	0	3745 019 984	-7.3	0.000 000	-0.002
	100 %	+10	3745 019 982	-9.4	0.000 000	-0.003
	100 %	+30	3745 019 984	-8.1	0.000 000	-0.002
	100 %	+40	3745 019 984	-8.1	0.000 000	-0.002
	100 %	+50	3745 019 983	-8.7	0.000 000	-0.002
	Batt. Endpoint	+20	3745 019 983	-8.4	0.000 000	-0.002
3934.980	100 %	+20(Ref)	3934 979 994	0.0	0.000 000	0.000
	100 %	-30	3934 979 982	-11.9	0.000 000	-0.003
	100 %	-20	3934 979 989	-5.3	0.000 000	-0.001
	100 %	-10	3934 979 988	-6.3	0.000 000	-0.002
	100 %	0	3934 979 987	-7.1	0.000 000	-0.002
	100 %	+10	3934 979 988	-6.2	0.000 000	-0.002
	100 %	+30	3934 979 988	-6.6	0.000 000	-0.002
	100 %	+40	3934 979 984	-10.3	0.000 000	-0.003
	100 %	+50	3934 979 990	-4.7	0.000 000	-0.001
	Batt. Endpoint	+20	3934 979 986	-8.4	0.000 000	-0.002

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

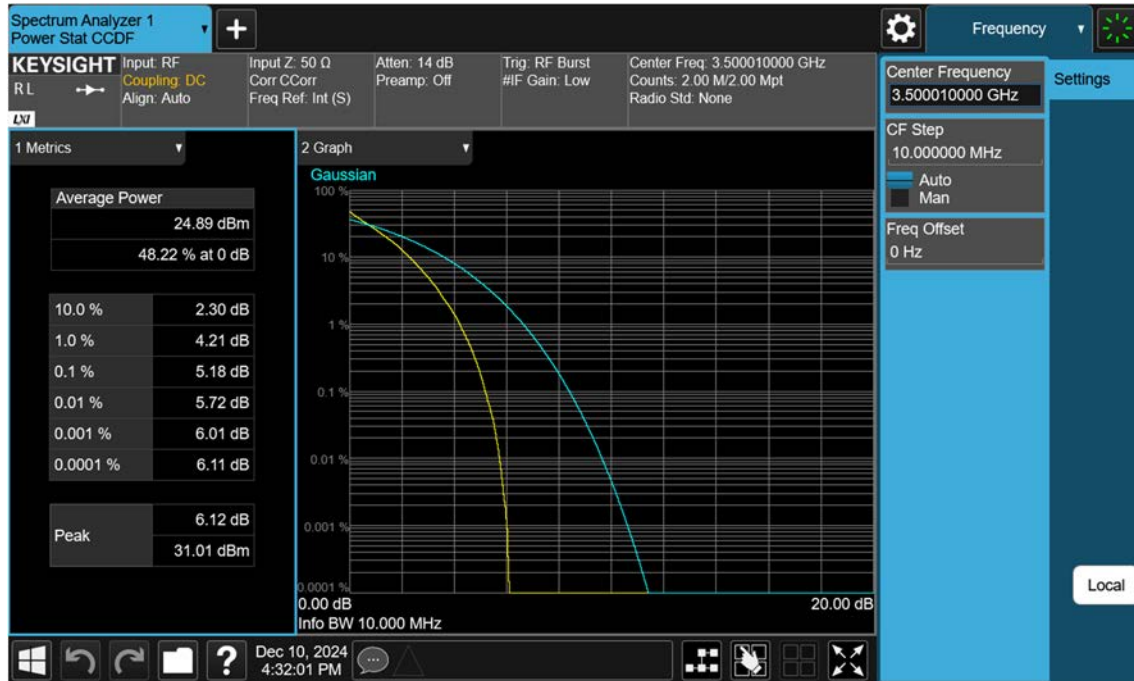
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3750.000	100 %	+20(Ref)	3749 999 996	0.0	0.000 000	0.000
	100 %	-30	3749 999 990	-5.3	0.000 000	-0.001
	100 %	-20	3749 999 986	-9.8	0.000 000	-0.003
	100 %	-10	3749 999 986	-9.8	0.000 000	-0.003
	100 %	0	3749 999 989	-6.5	0.000 000	-0.002
	100 %	+10	3749 999 989	-6.9	0.000 000	-0.002
	100 %	+30	3749 999 992	-3.9	0.000 000	-0.001
	100 %	+40	3749 999 991	-4.6	0.000 000	-0.001
	100 %	+50	3749 999 987	-8.2	0.000 000	-0.002
	Batt. Endpoint	+20	3749 999 987	-8.9	0.000 000	-0.002
3930.000	100 %	+20(Ref)	3929 999 990	0.0	0.000 000	0.000
	100 %	-30	3929 999 980	-10.5	0.000 000	-0.003
	100 %	-20	3929 999 982	-7.8	0.000 000	-0.002
	100 %	-10	3929 999 977	-12.9	0.000 000	-0.003
	100 %	0	3929 999 977	-12.9	0.000 000	-0.003
	100 %	+10	3929 999 981	-8.8	0.000 000	-0.002
	100 %	+30	3929 999 983	-7.3	0.000 000	-0.002
	100 %	+40	3929 999 985	-5.3	0.000 000	-0.001
	100 %	+50	3929 999 982	-7.7	0.000 000	-0.002
	Batt. Endpoint	+20	3929 999 983	-7.4	0.000 000	-0.002

10. TEST PLOTS(3450 MHz - 3550 MHz)

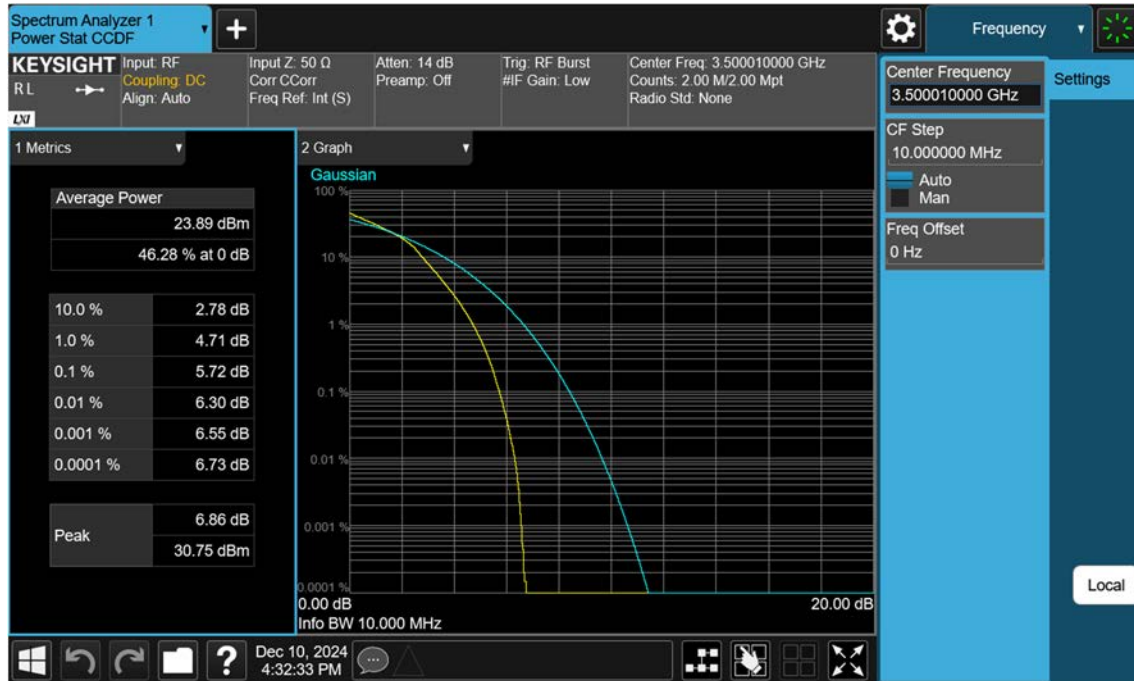
n77(3450~3550 MHz)_10 M_PAR_Mid_BPSK_FullRB



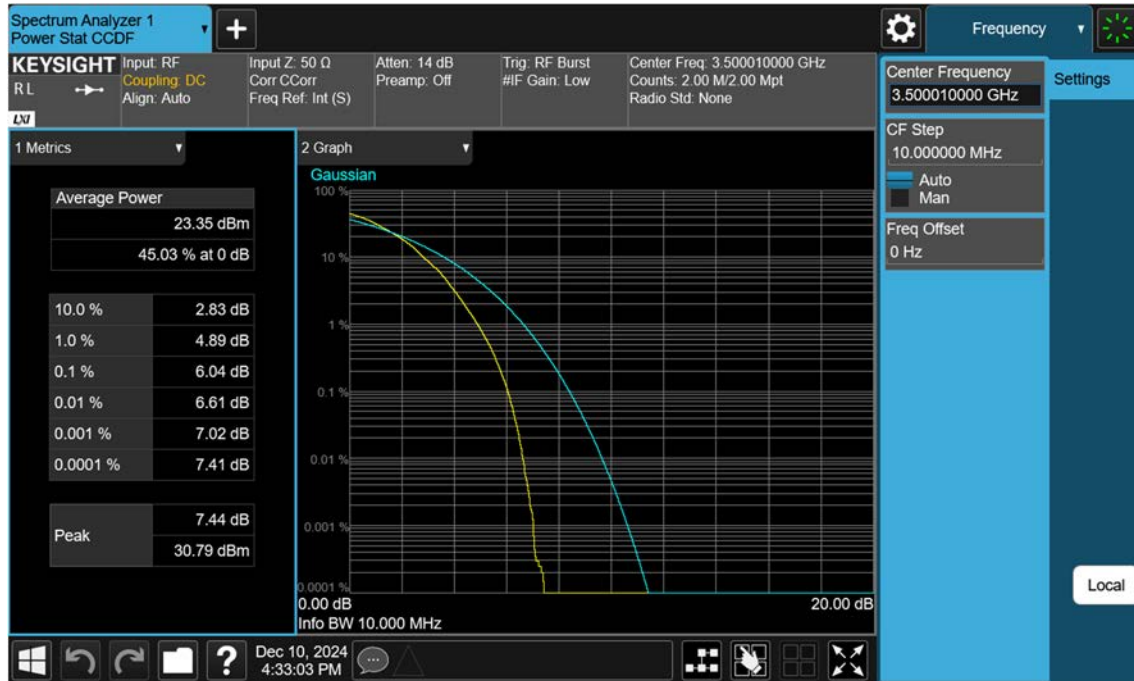
n77(3450~3550 MHz)_10 M_PAR_Mid_QPSK_FullIRB



n77(3450~3550 MHz)_10 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_10 M_PAR_Mid_64QAM_FullRB



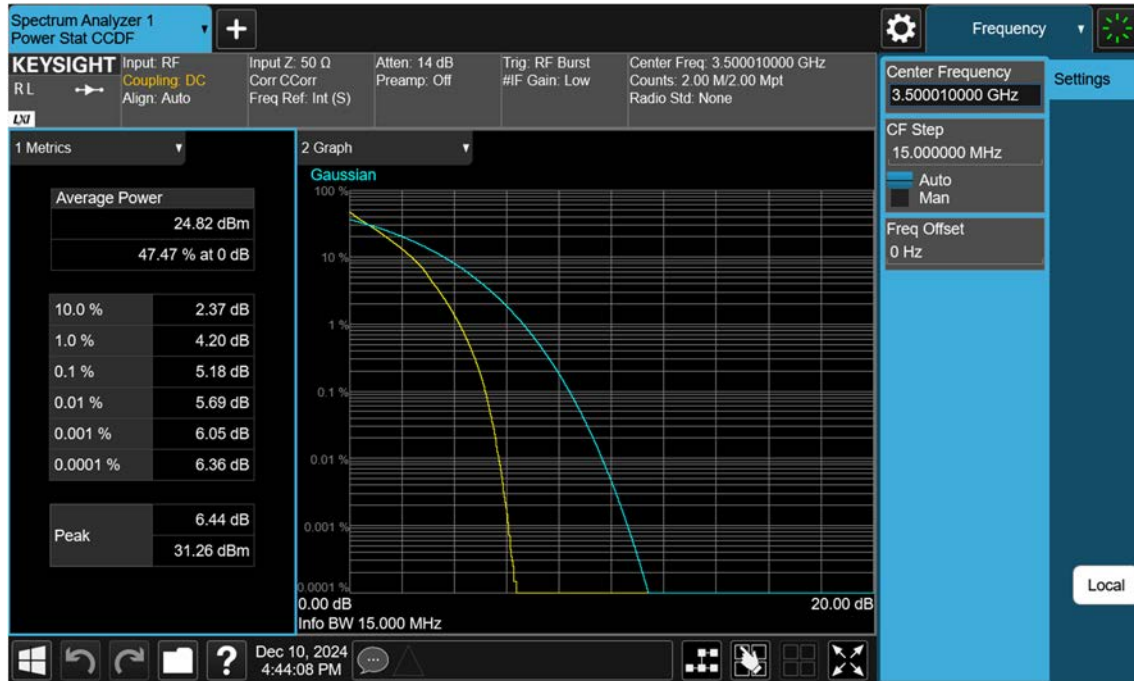
n77(3450~3550 MHz)_10 M_PAR_Mid_256QAM_FullRB



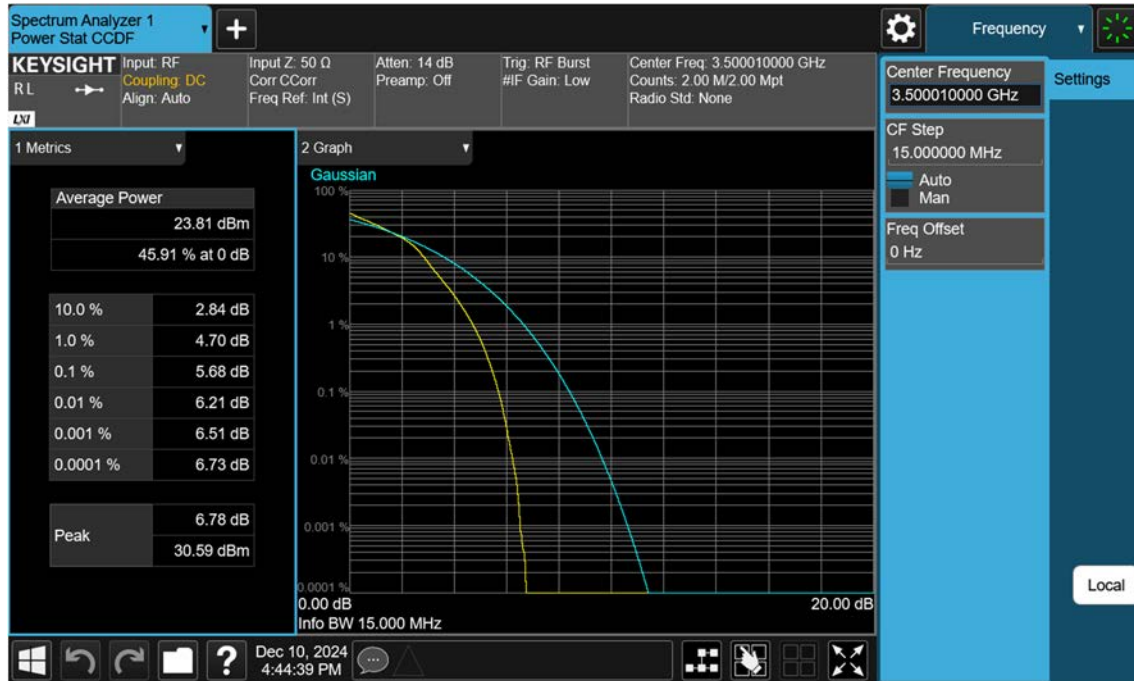
n77(3450~3550 MHz)_15 M_PAR_Mid_BPSK_FullRB



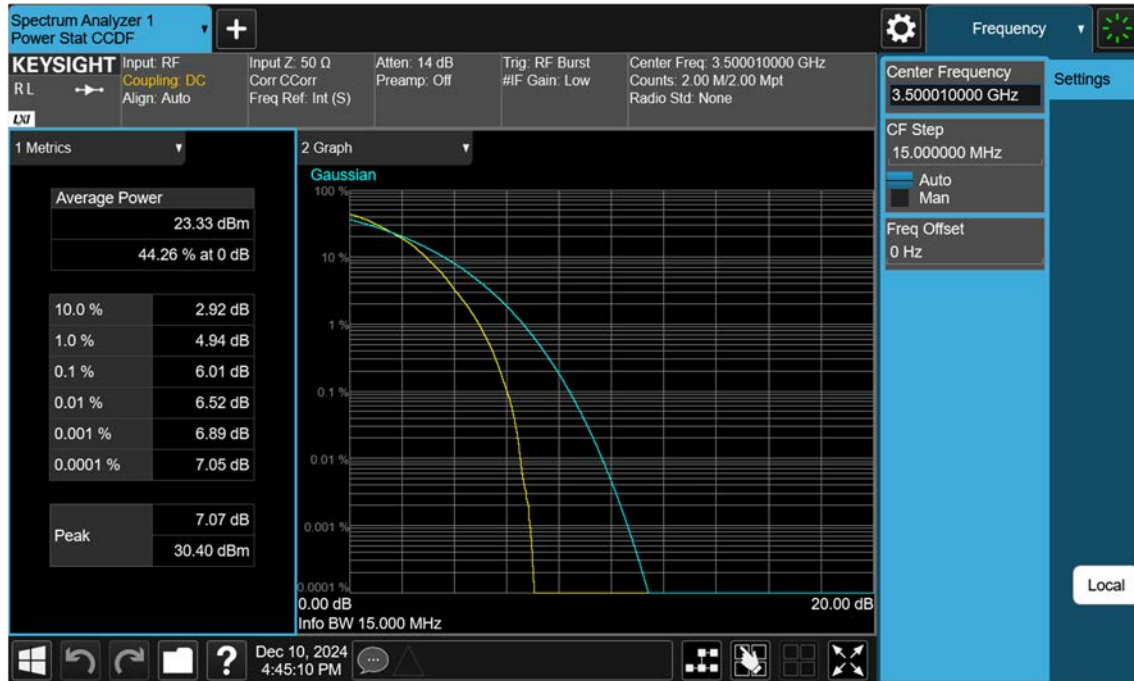
n77(3450~3550 MHz)_15 M_PAR_Mid_QPSK_FullRB



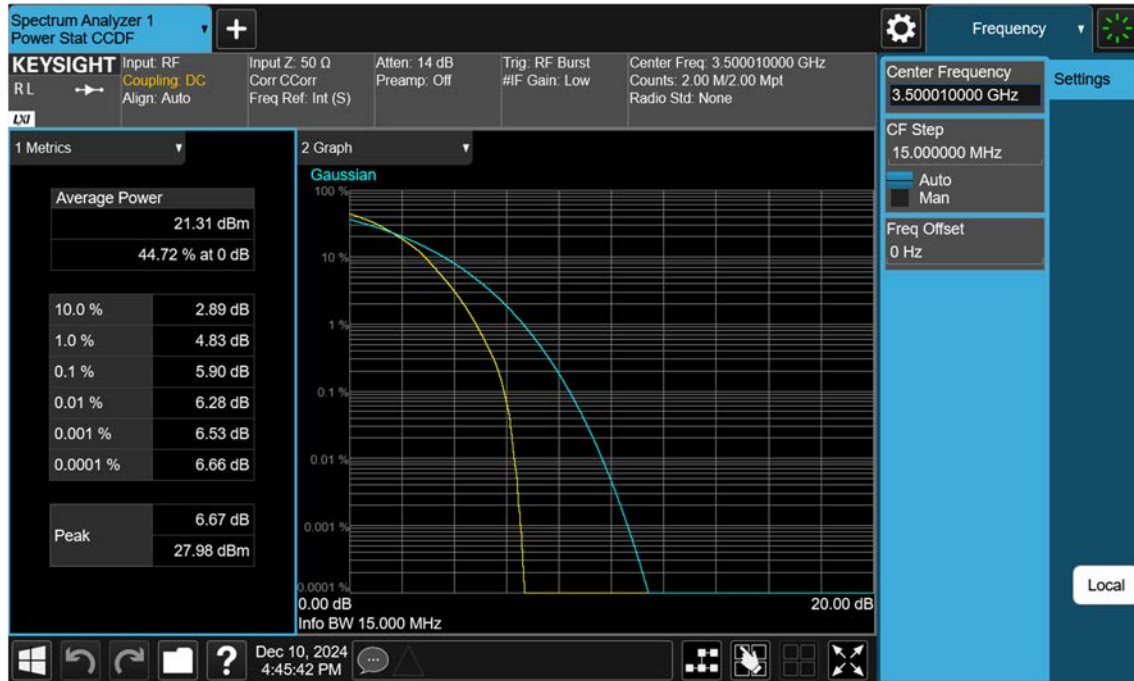
n77(3450~3550 MHz)_15 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_15 M_PAR_Mid_64QAM_FullRB



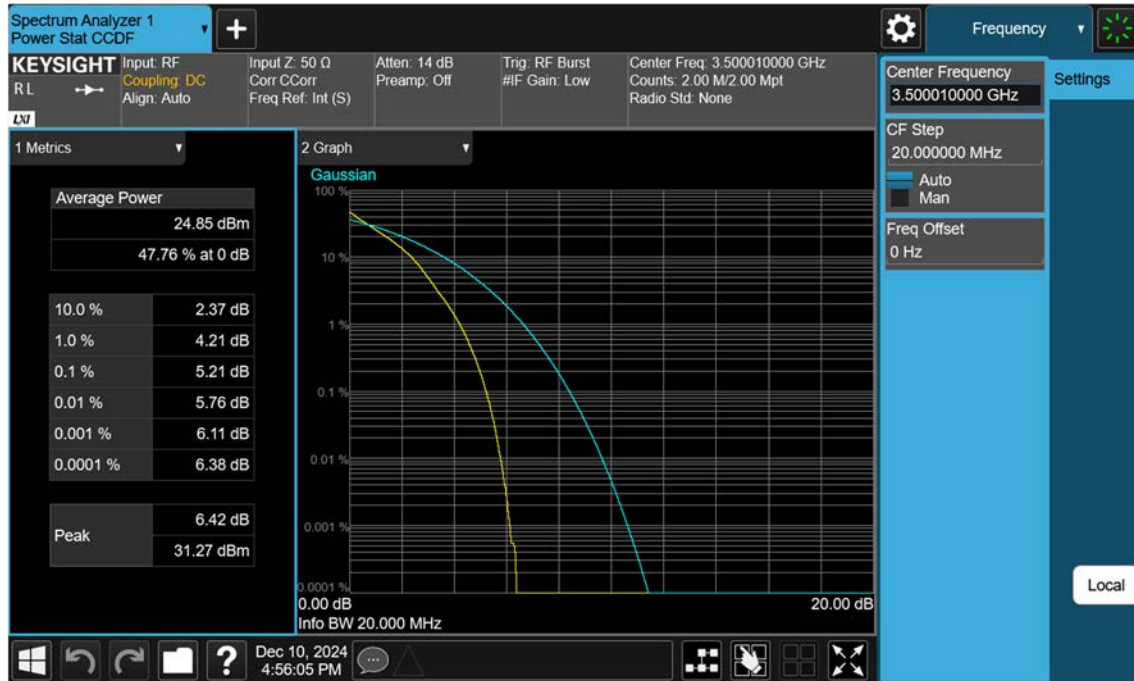
n77(3450~3550 MHz)_15 M_PAR_Mid_256QAM_FullRB



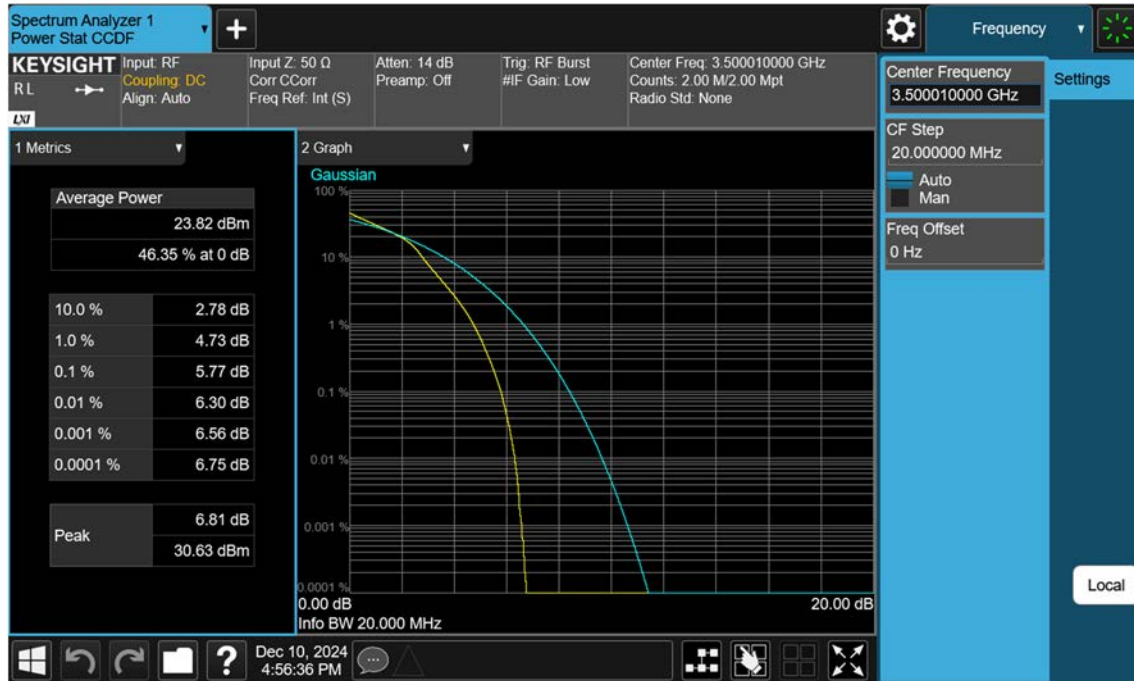
n77(3450~3550 MHz)_20 M_PAR_Mid_BPSK_FullRB



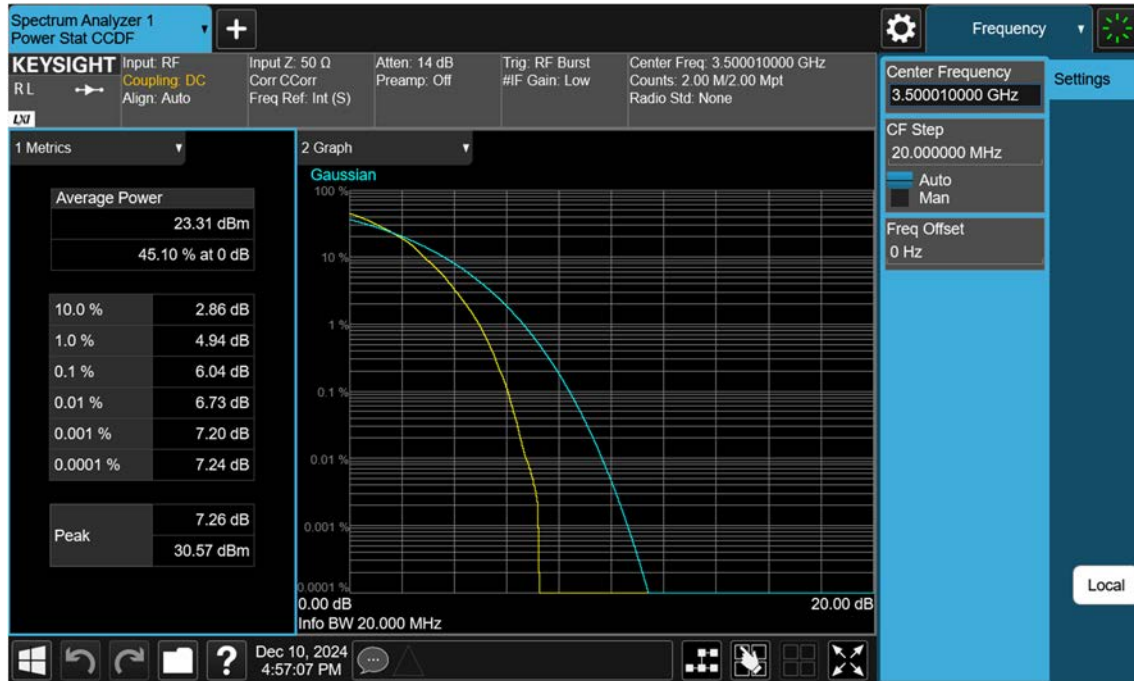
n77(3450~3550 MHz)_20 M_PAR_Mid_QPSK_FullRB



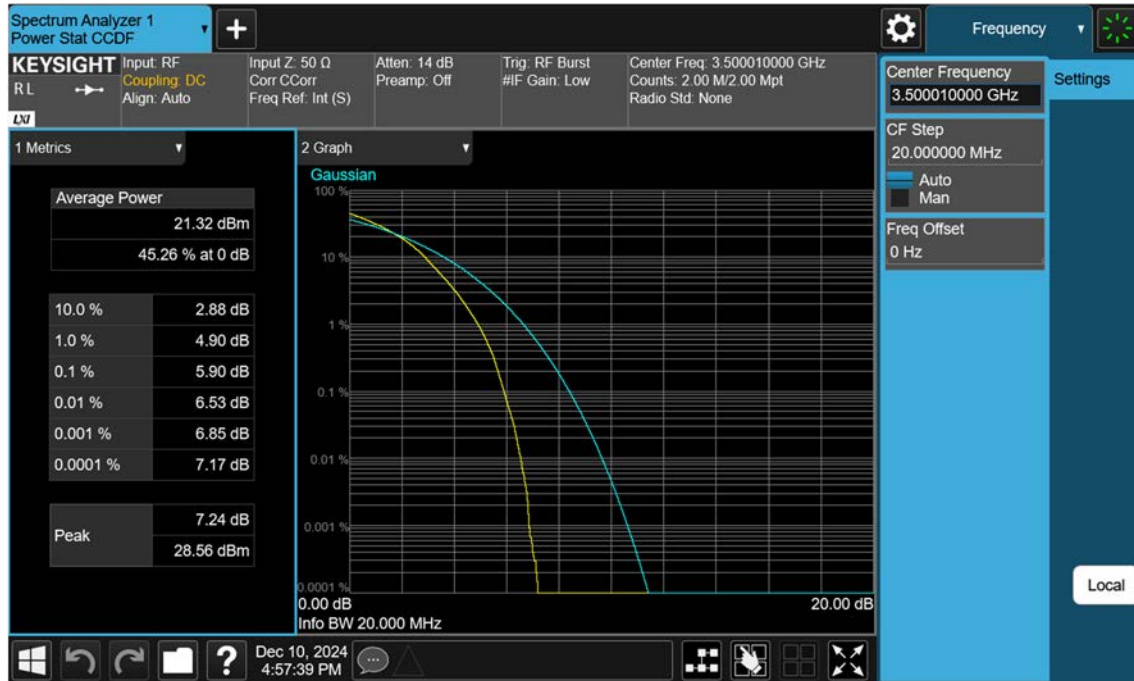
n77(3450~3550 MHz)_20 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_20 M_PAR_Mid_64QAM_FullRB



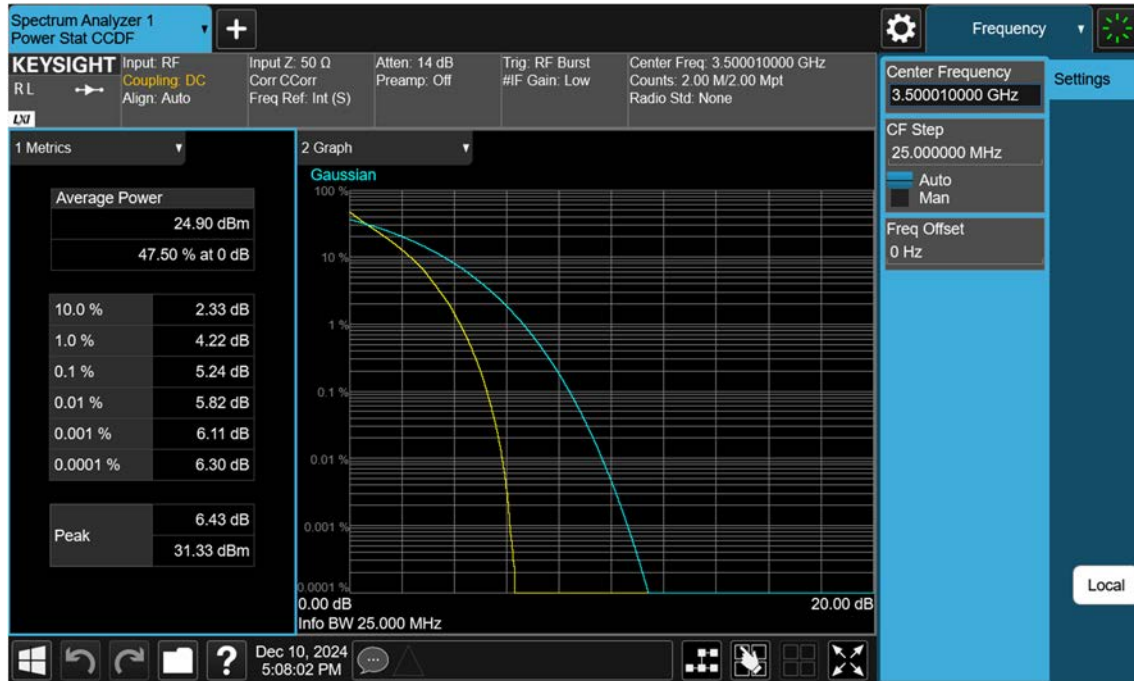
n77(3450~3550 MHz)_20 M_PAR_Mid_256QAM_FullRB



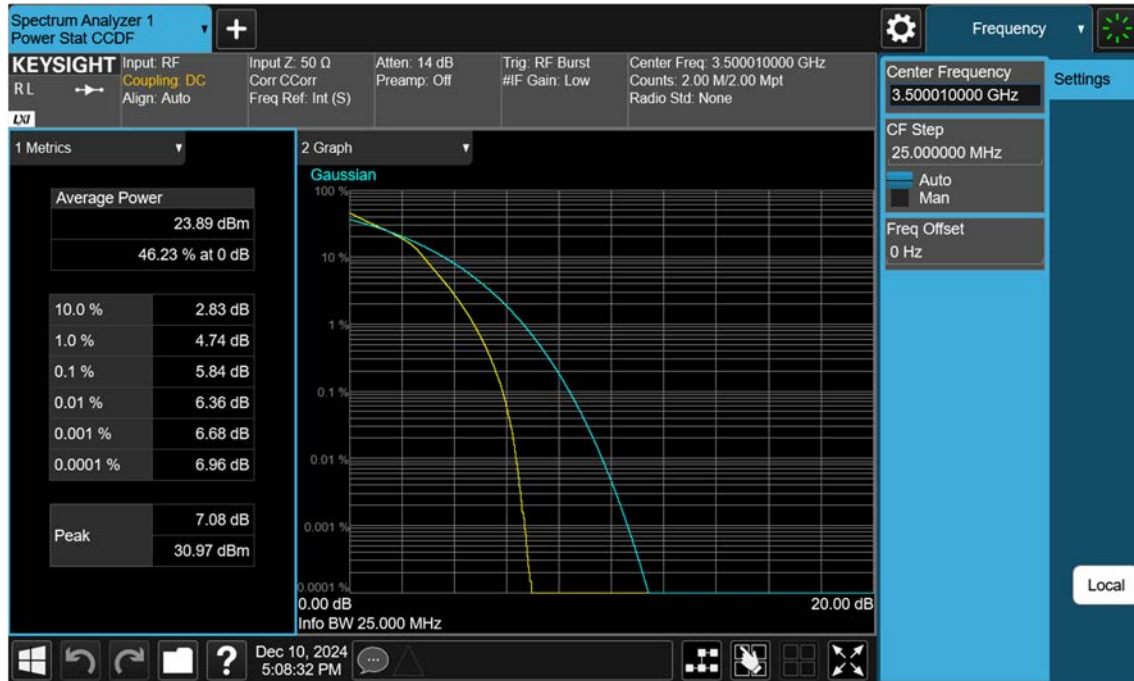
n77(3450~3550 MHz)_25 M_PAR_Mid_BPSK_FullRB



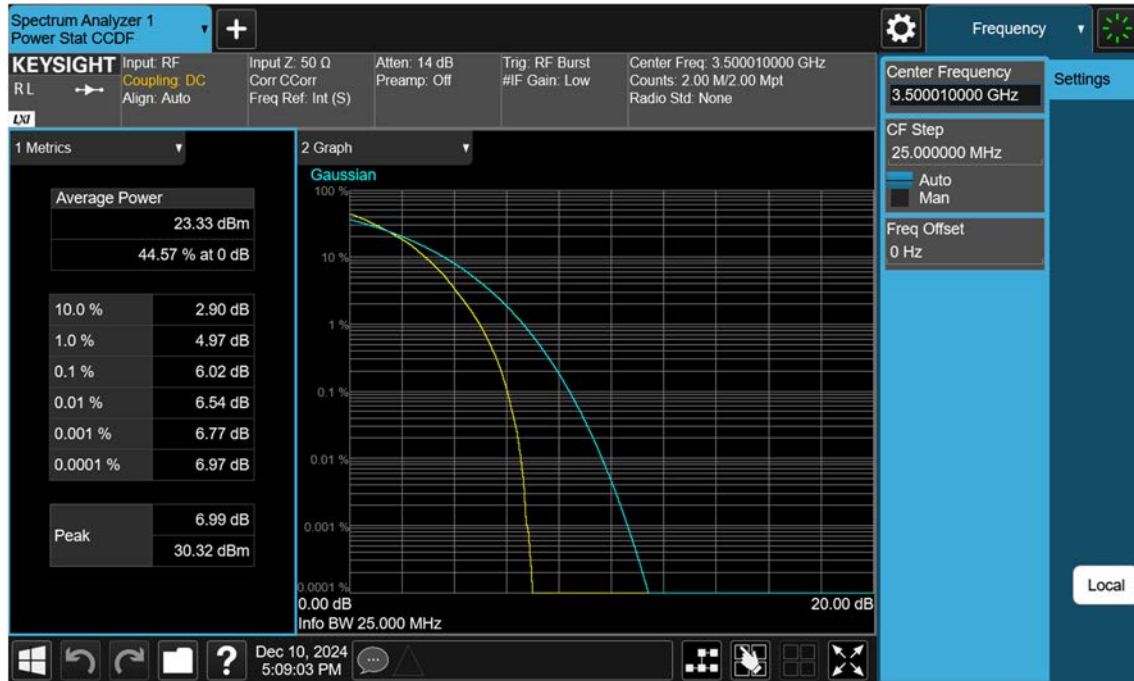
n77(3450~3550 MHz)_25 M_PAR_Mid_QPSK_FullRB



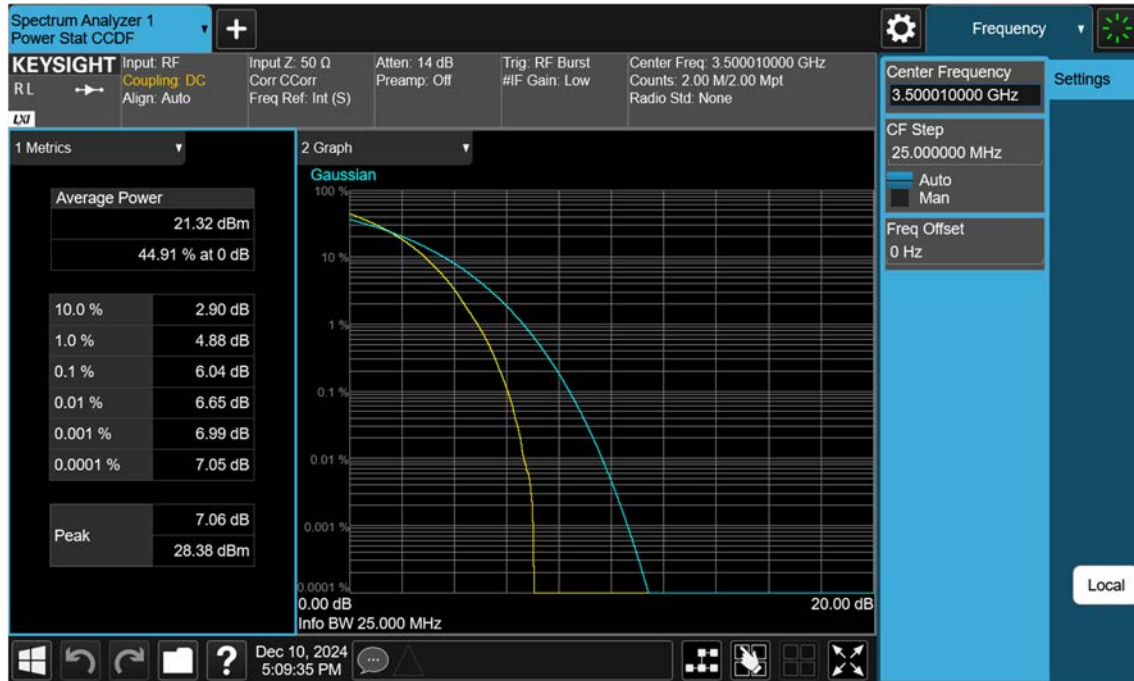
n77(3450~3550 MHz)_25 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_25 M_PAR_Mid_64QAM_FullRB



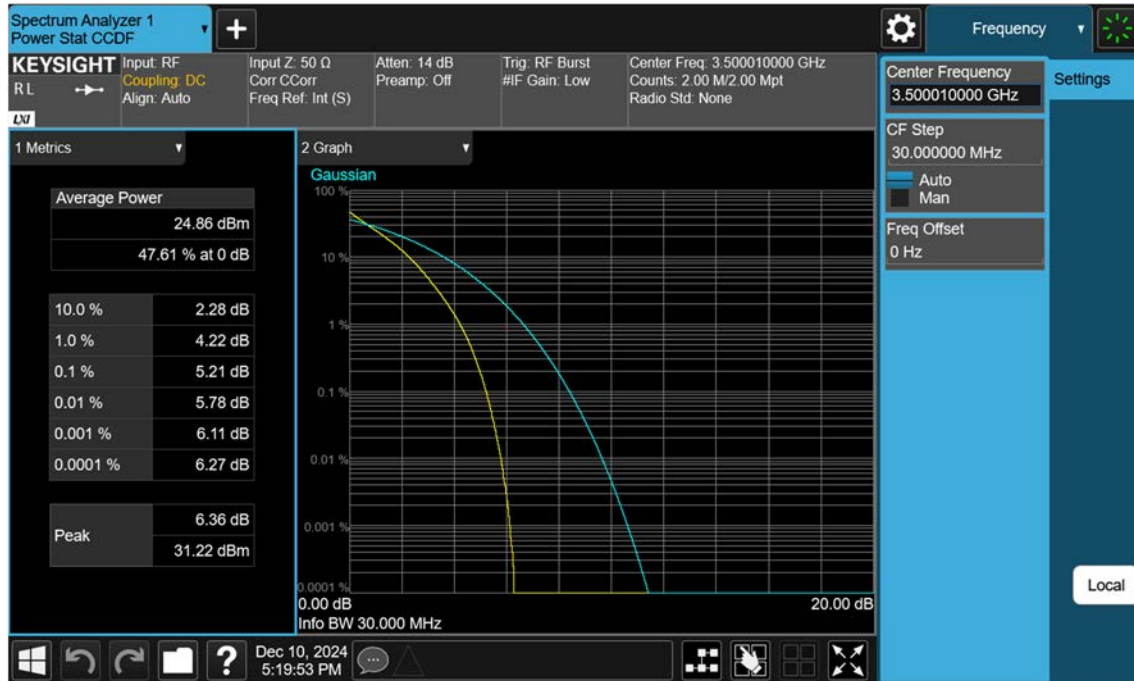
n77(3450~3550 MHz)_25 M_PAR_Mid_256QAM_FullRB



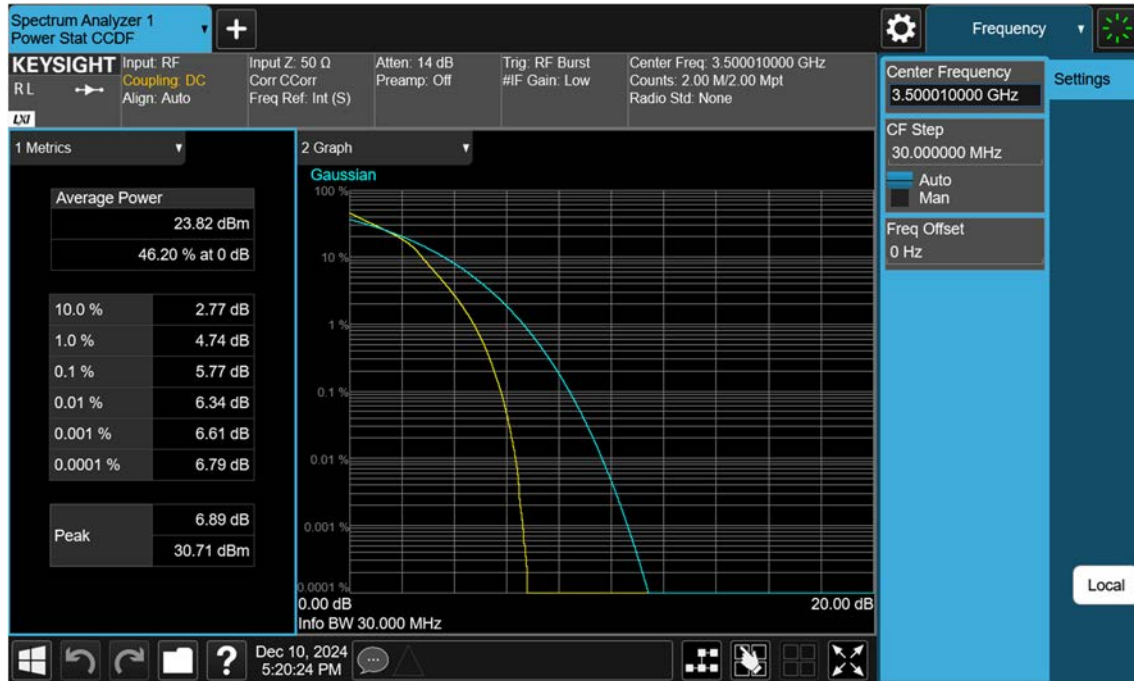
n77(3450~3550 MHz)_30 M_PAR_Mid_BPSK_FullRB



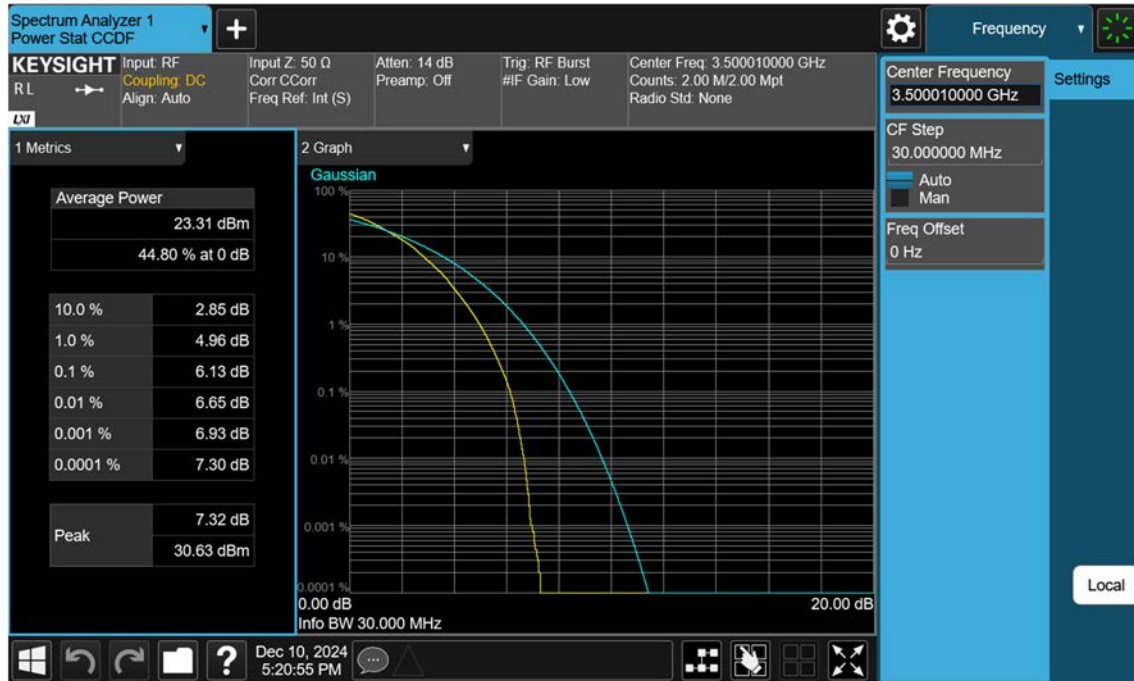
n77(3450~3550 MHz)_30 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_30 M_PAR_Mid_16QAM_FullRB



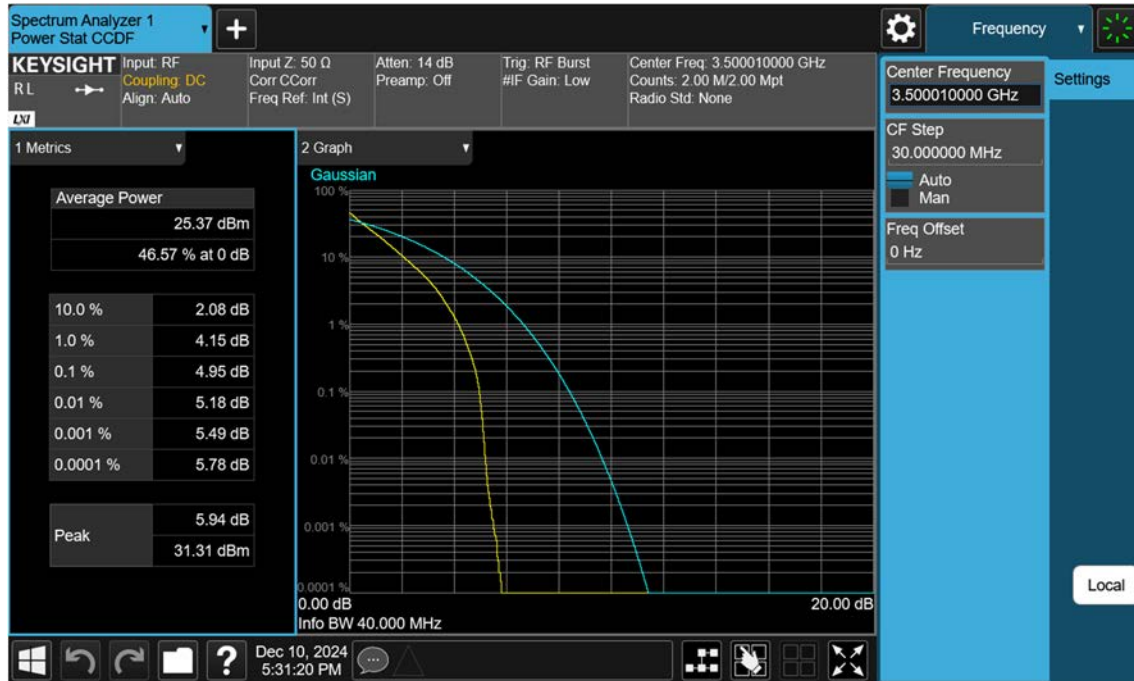
n77(3450~3550 MHz)_30 M_PAR_Mid_64QAM_FullRB



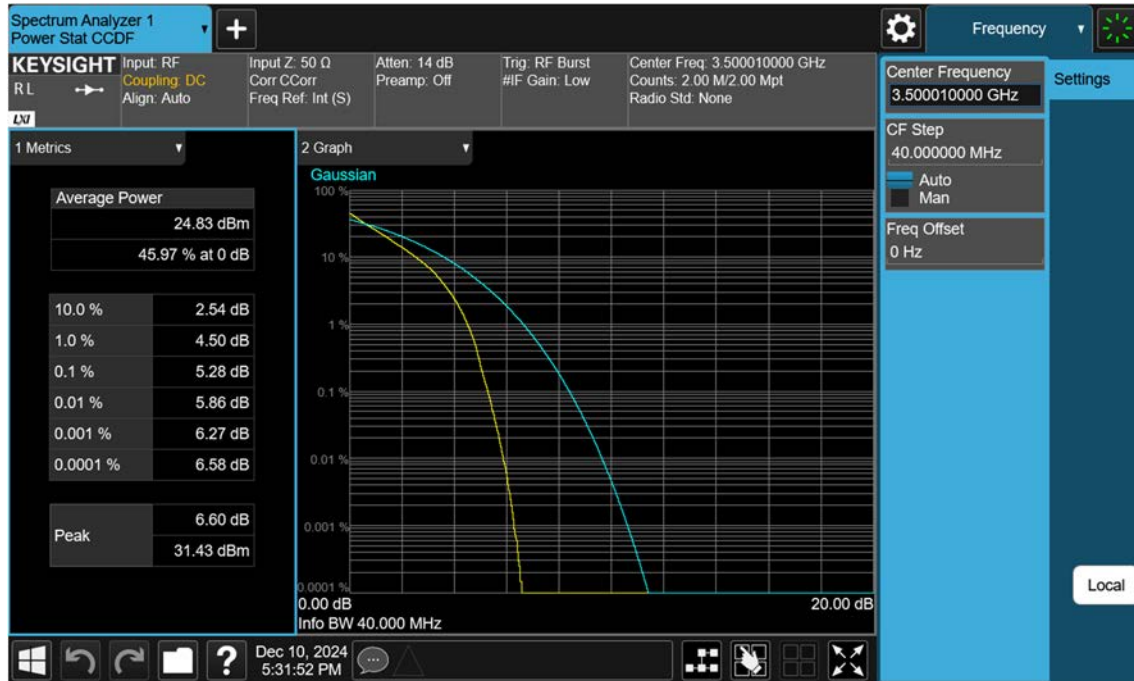
n77(3450~3550 MHz)_30 M_PAR_Mid_256QAM_FullRB



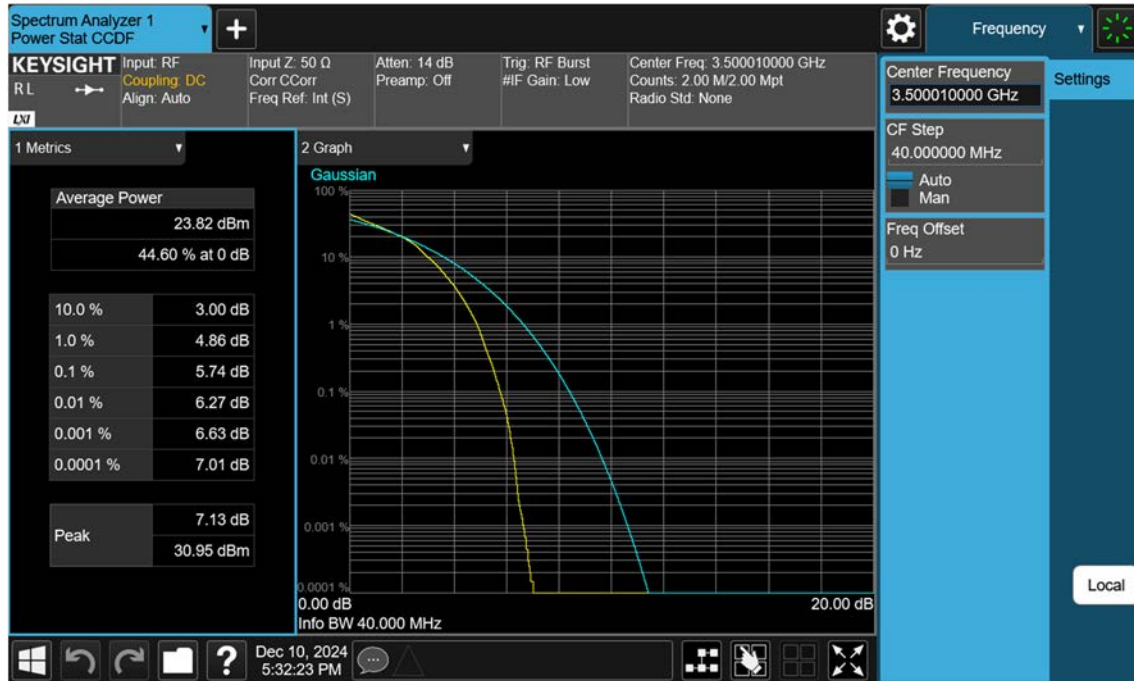
n77(3450~3550 MHz)_40 M_PAR_Mid_BPSK_FullRB



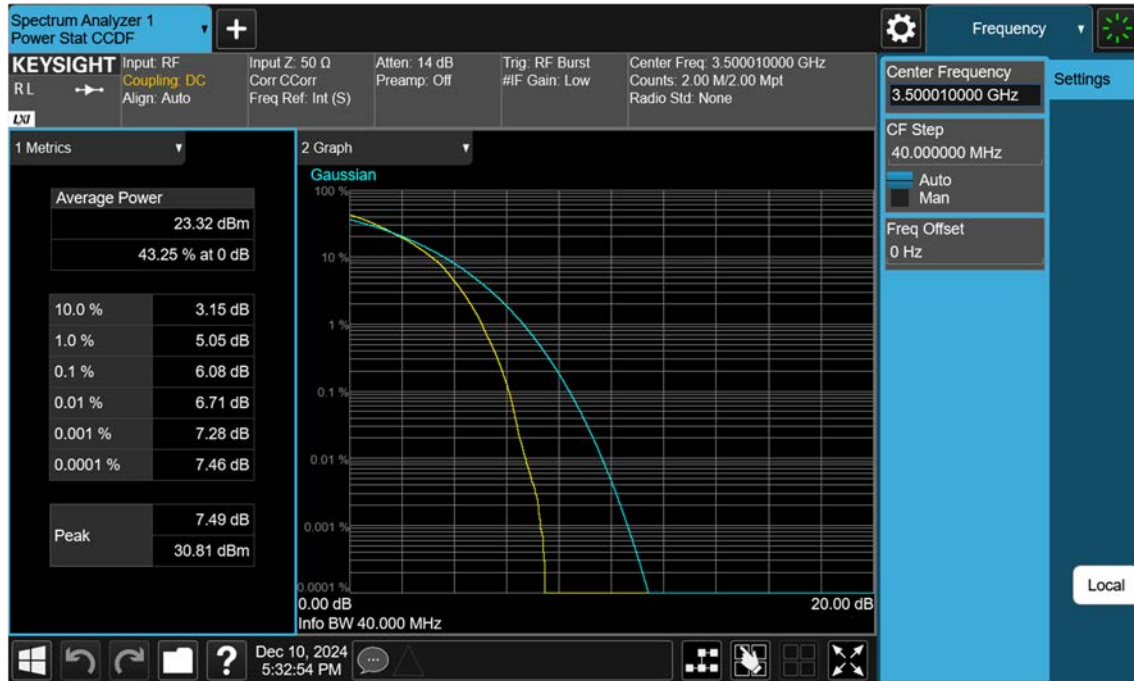
n77(3450~3550 MHz)_40 M_PAR_Mid_QPSK_FullRB



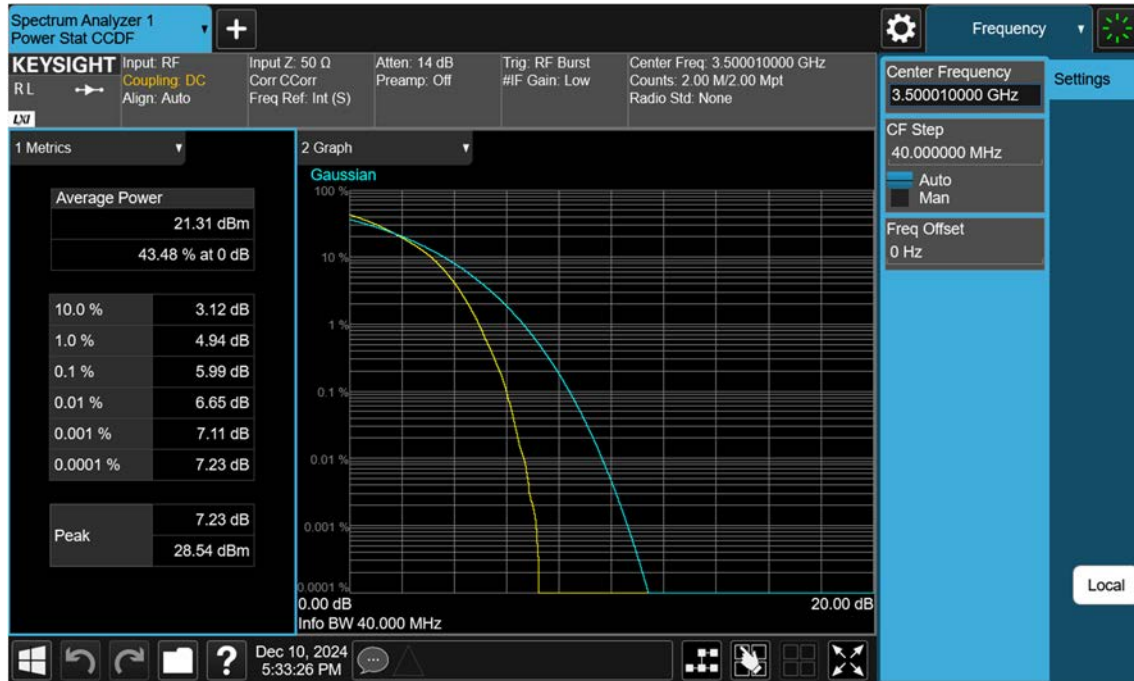
n77(3450~3550 MHz)_40 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_40 M_PAR_Mid_64QAM_FullRB



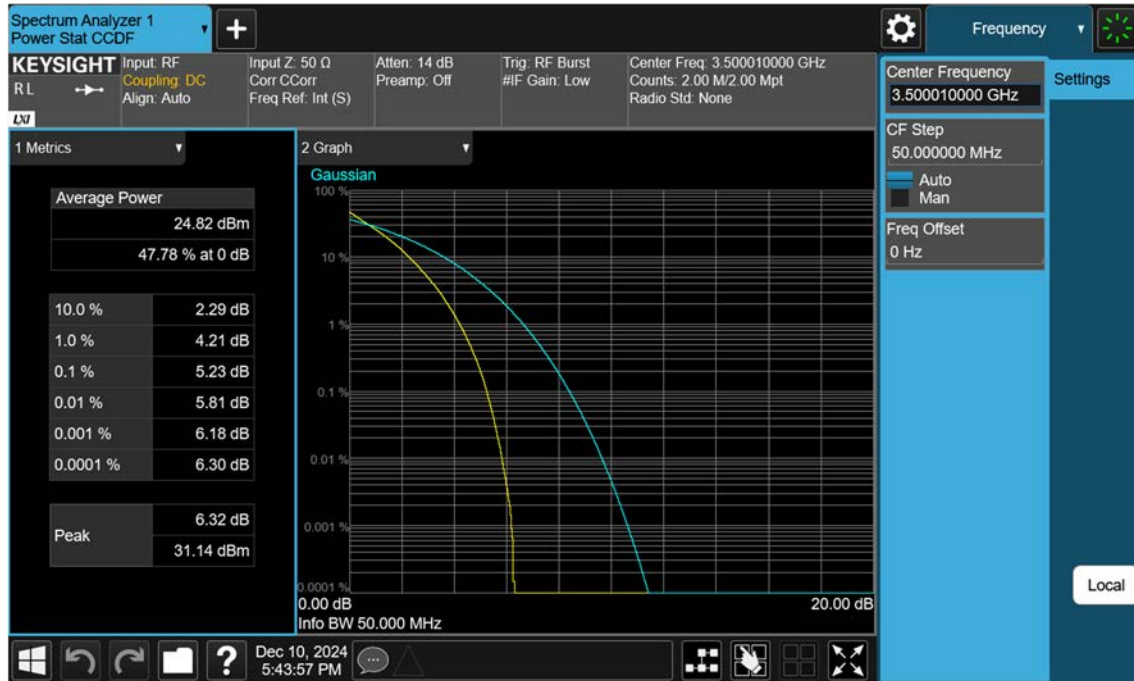
n77(3450~3550 MHz)_40 M_PAR_Mid_256QAM_FullRB



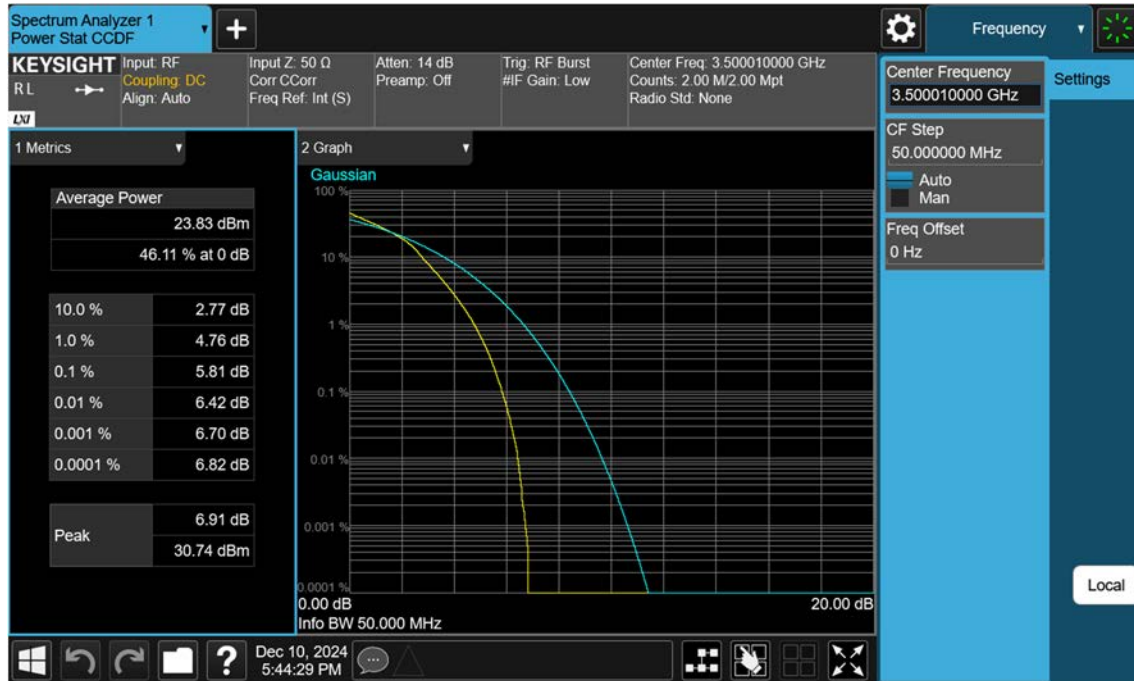
n77(3450~3550 MHz)_50 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_50 M_PAR_Mid_QPSK_FullRB



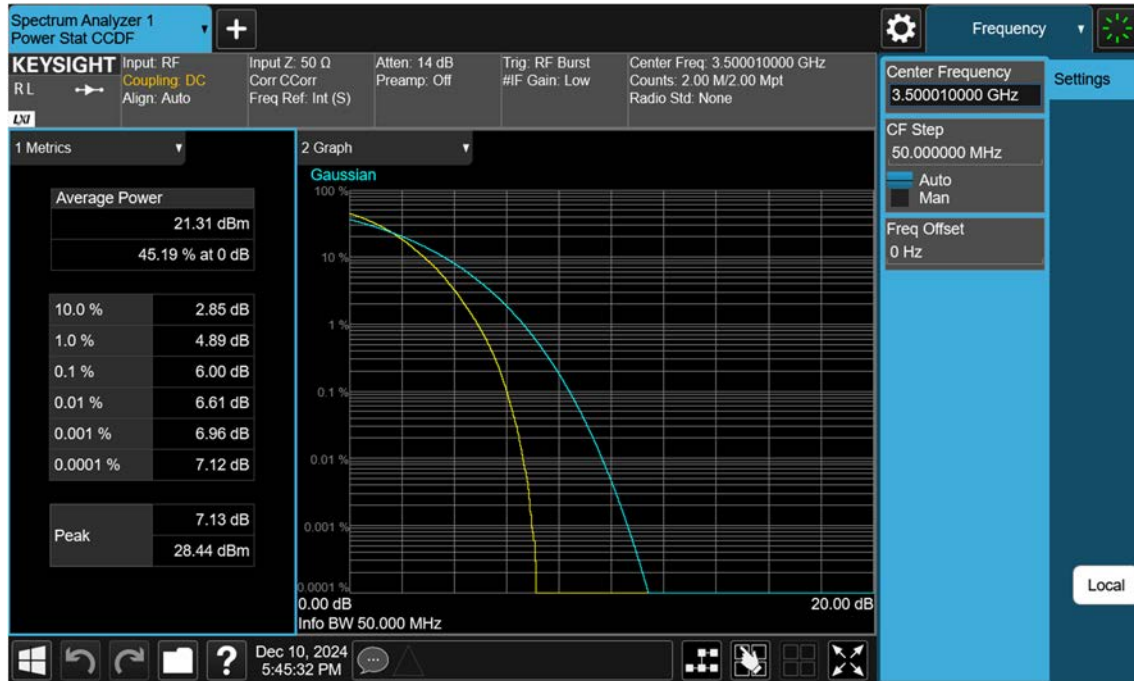
n77(3450~3550 MHz)_50 M_PAR_Mid_16QAM_FullRB



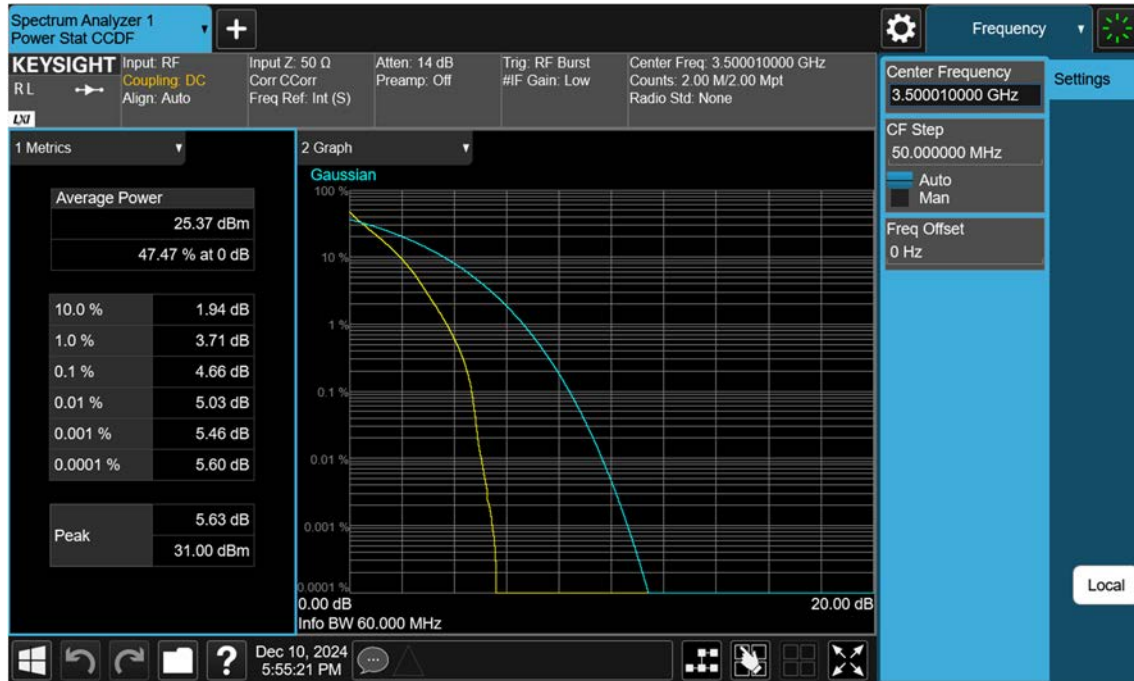
n77(3450~3550 MHz)_50 M_PAR_Mid_64QAM_FullRB



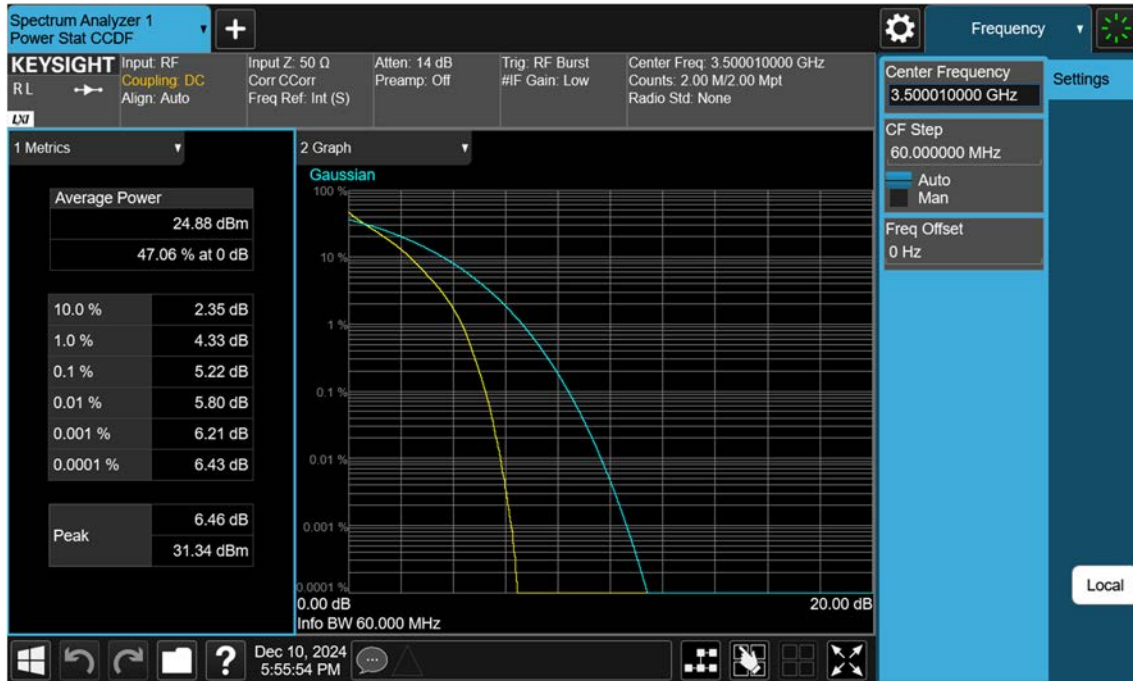
n77(3450~3550 MHz)_50 M_PAR_Mid_256QAM_FullRB



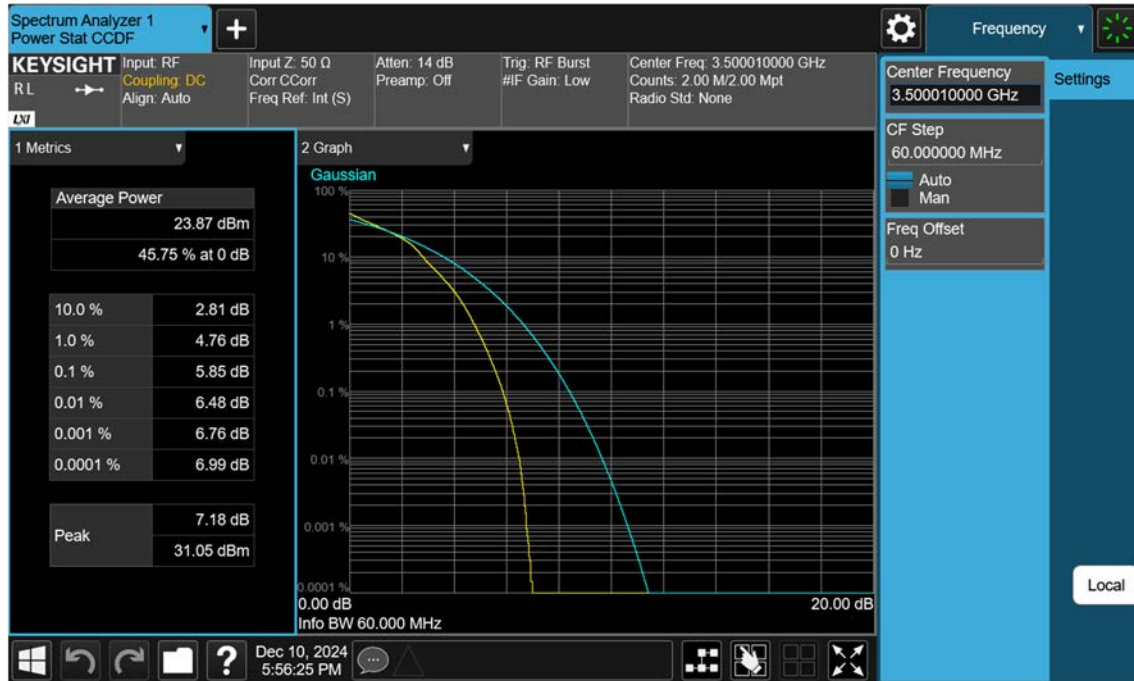
n77(3450~3550 MHz)_60 M_PAR_Mid_BPSK_FullRB



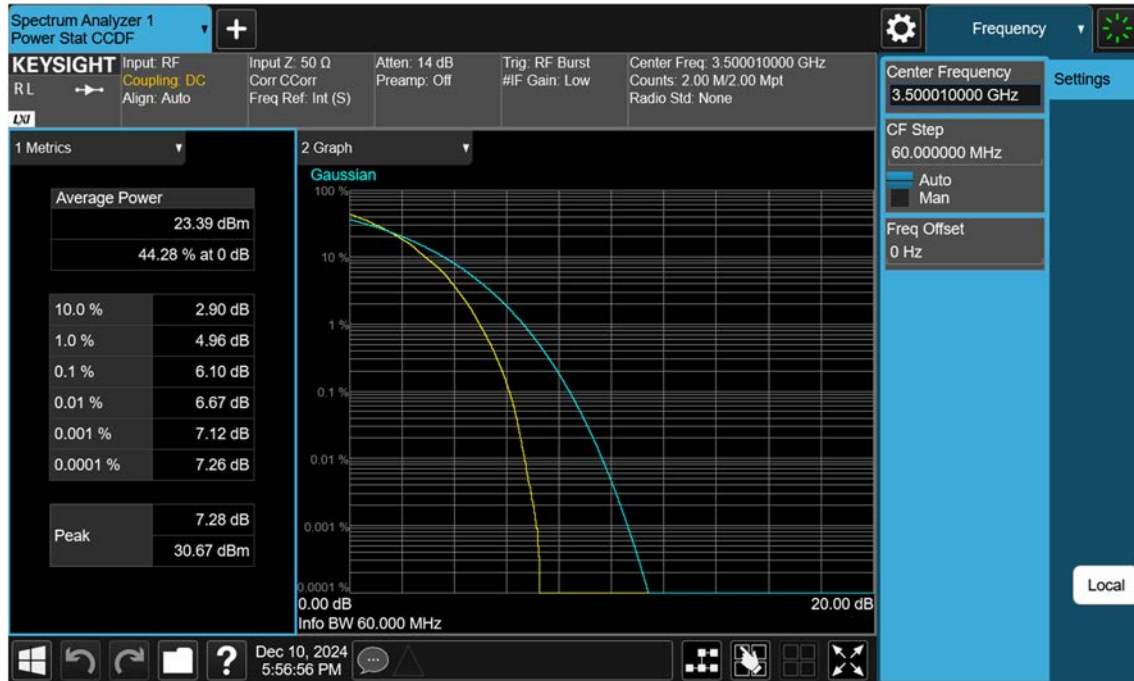
n77(3450~3550 MHz)_60 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_60 M_PAR_Mid_16QAM_FullRB



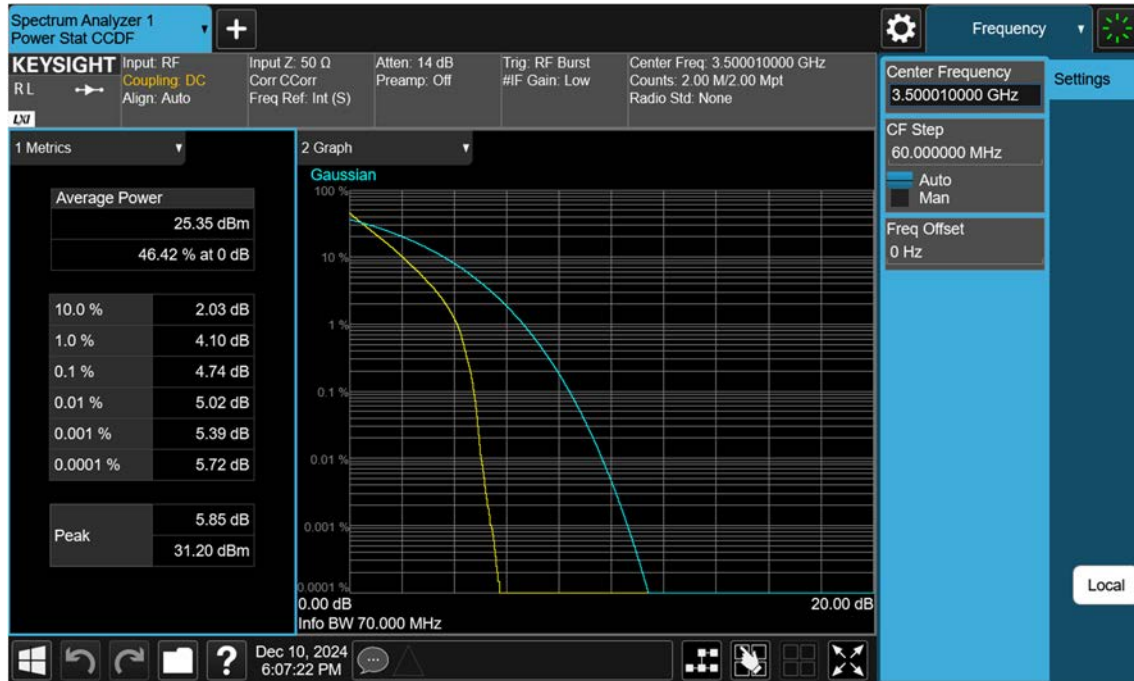
n77(3450~3550 MHz)_60 M_PAR_Mid_64QAM_FullRB



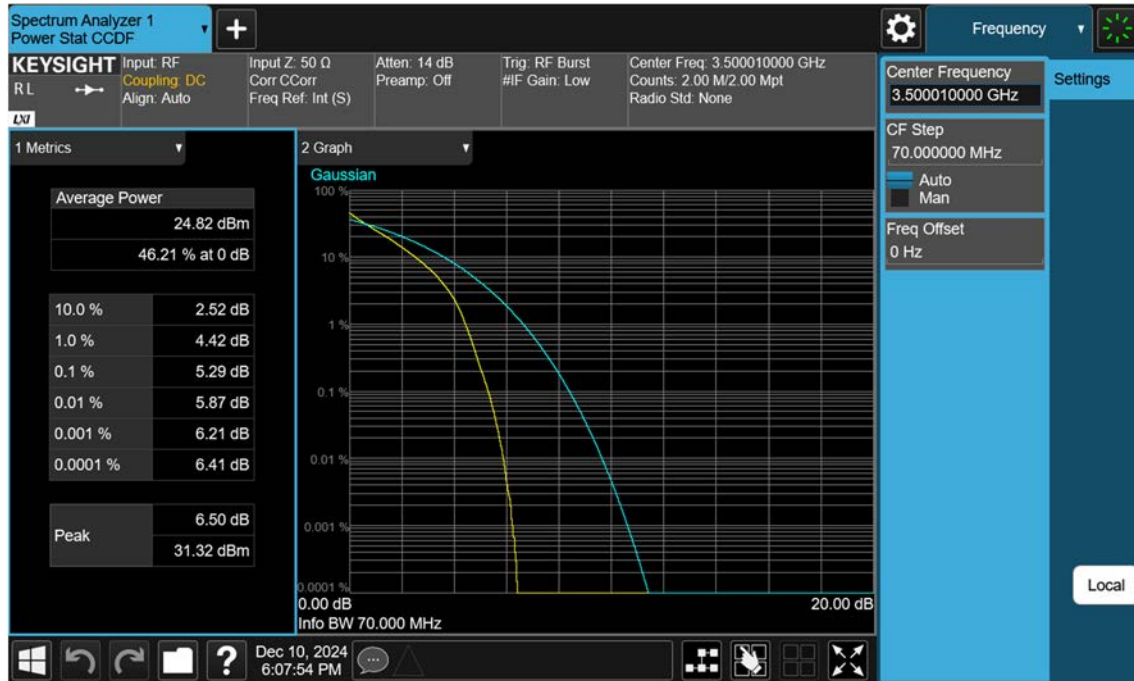
n77(3450~3550 MHz)_60 M_PAR_Mid_256QAM_FullRB



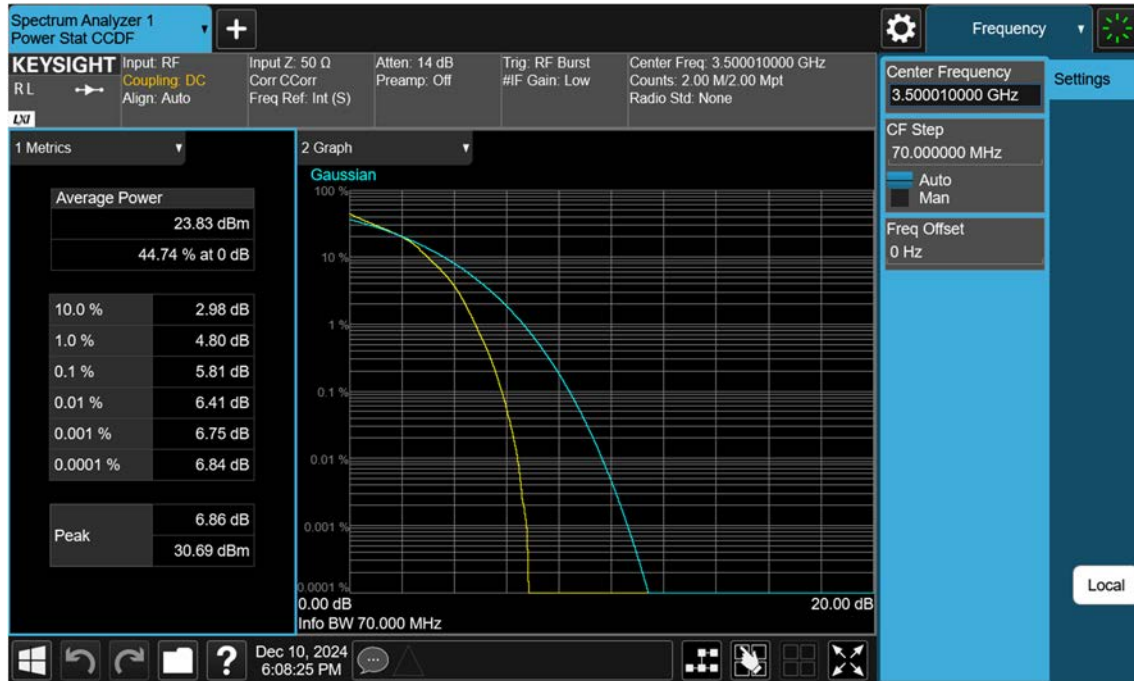
n77(3450~3550 MHz)_70 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_70 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_70 M_PAR_Mid_16QAM_FullRB

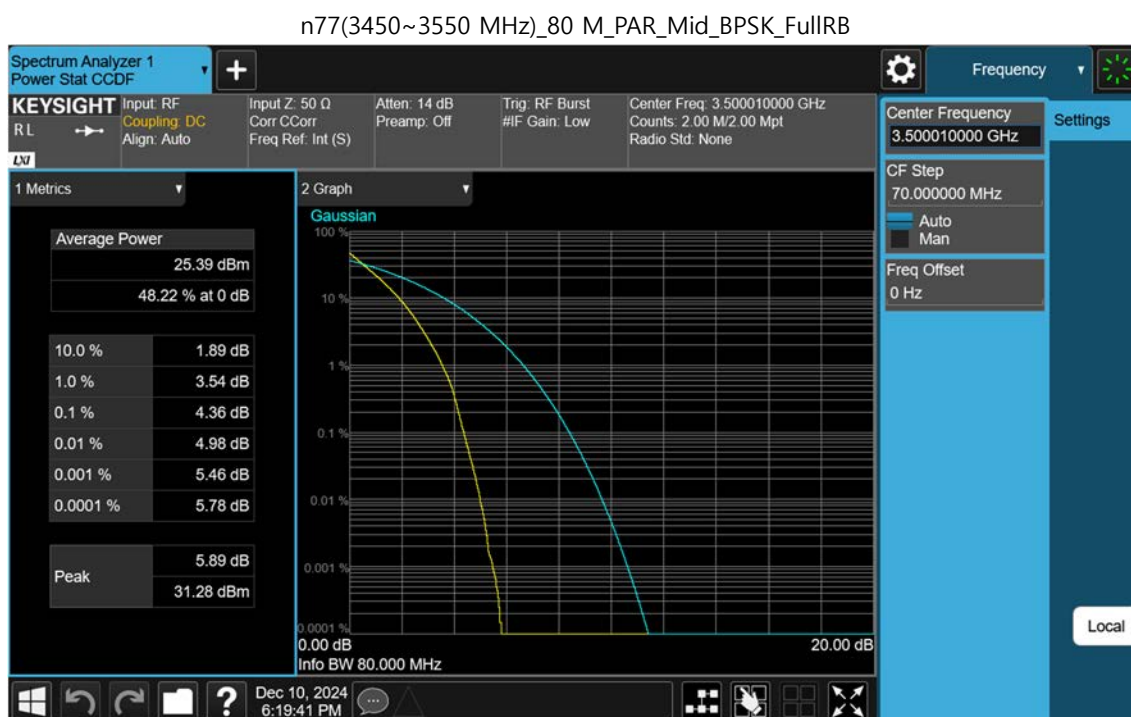


n77(3450~3550 MHz)_70 M_PAR_Mid_64QAM_FullRB

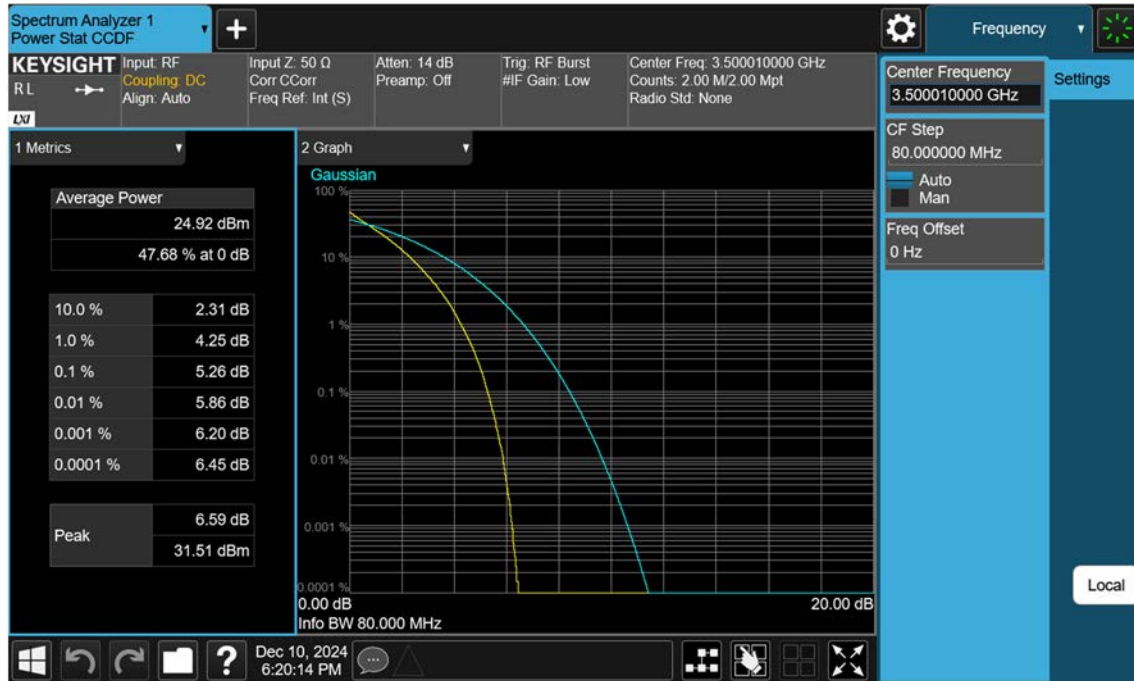


n77(3450~3550 MHz)_70 M_PAR_Mid_256QAM_FullRB

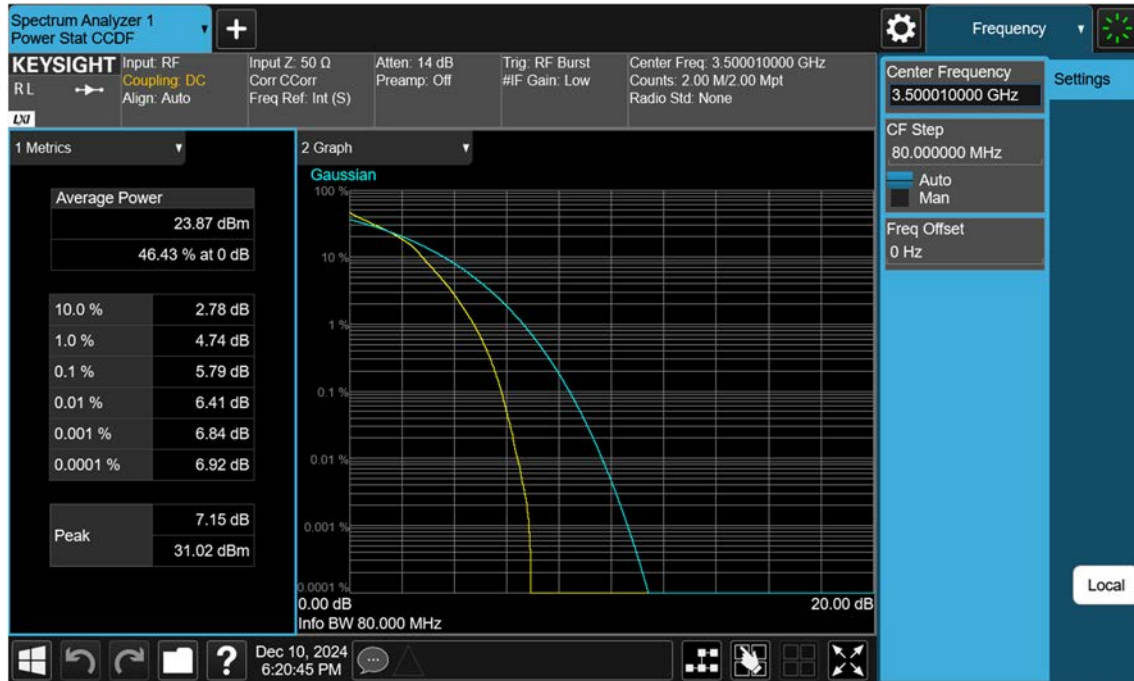




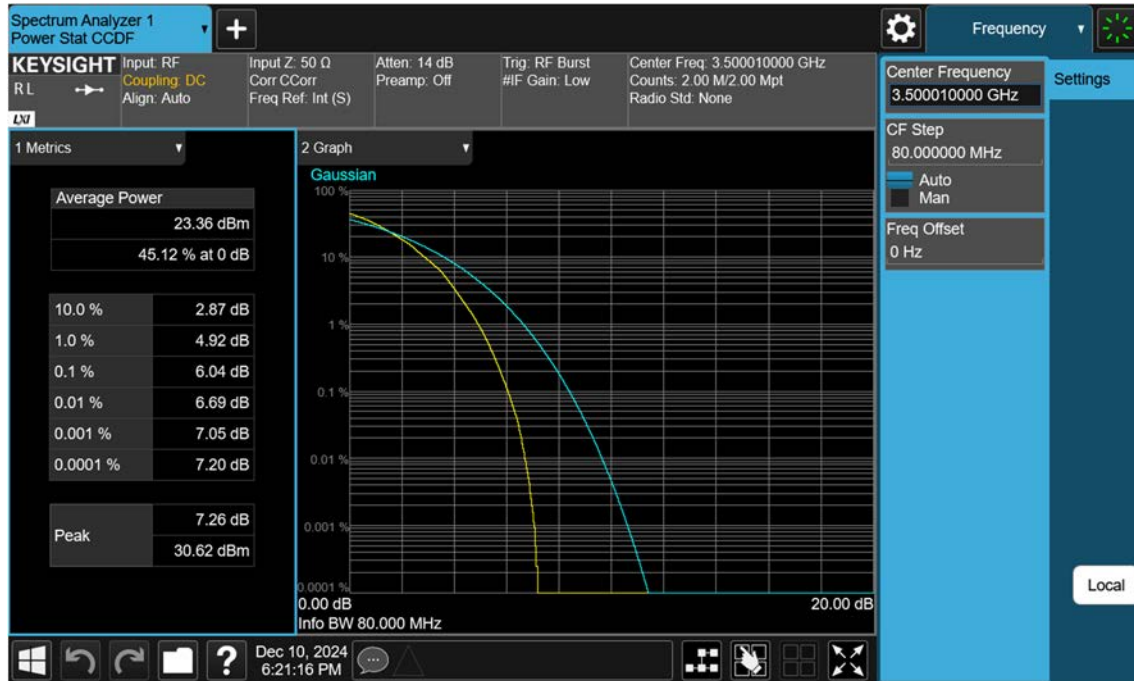
n77(3450~3550 MHz)_80 M_PAR_Mid_QPSK_FullRB



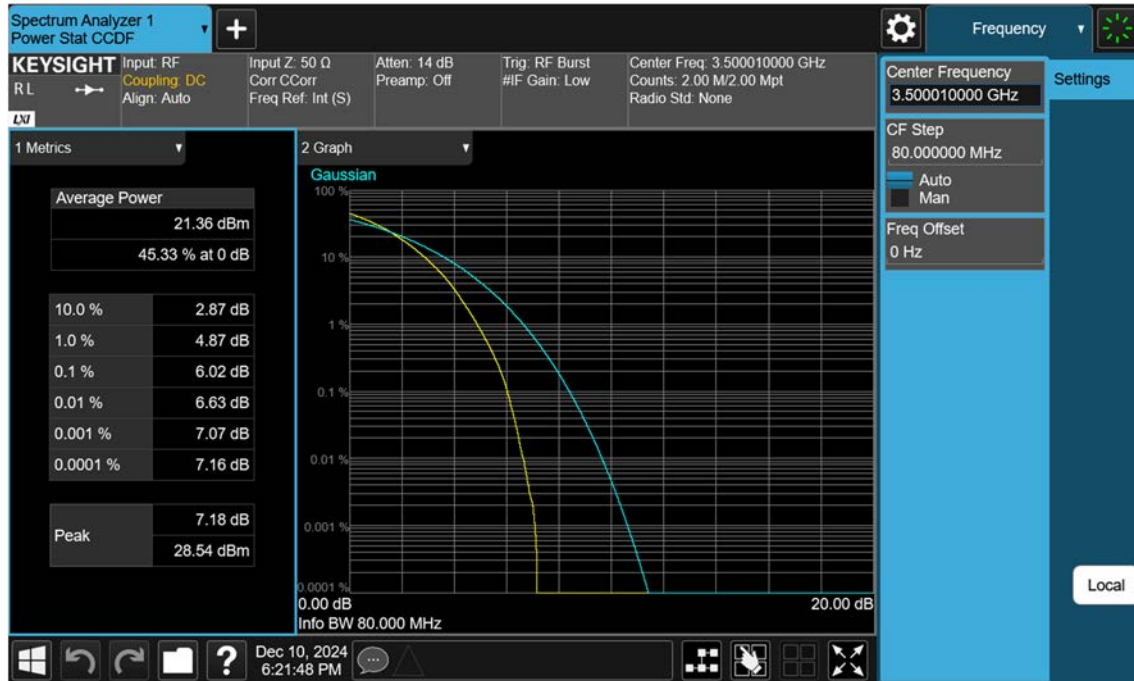
n77(3450~3550 MHz)_80 M_PAR_Mid_16QAM_FullRB



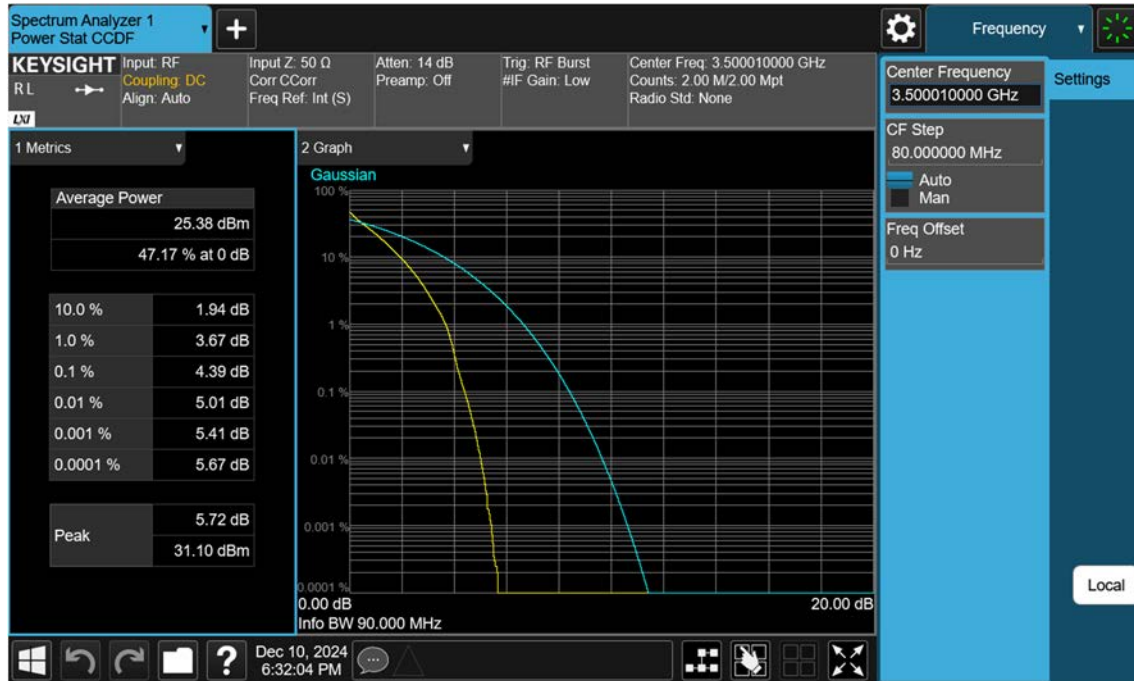
n77(3450~3550 MHz)_80 M_PAR_Mid_64QAM_FullRB



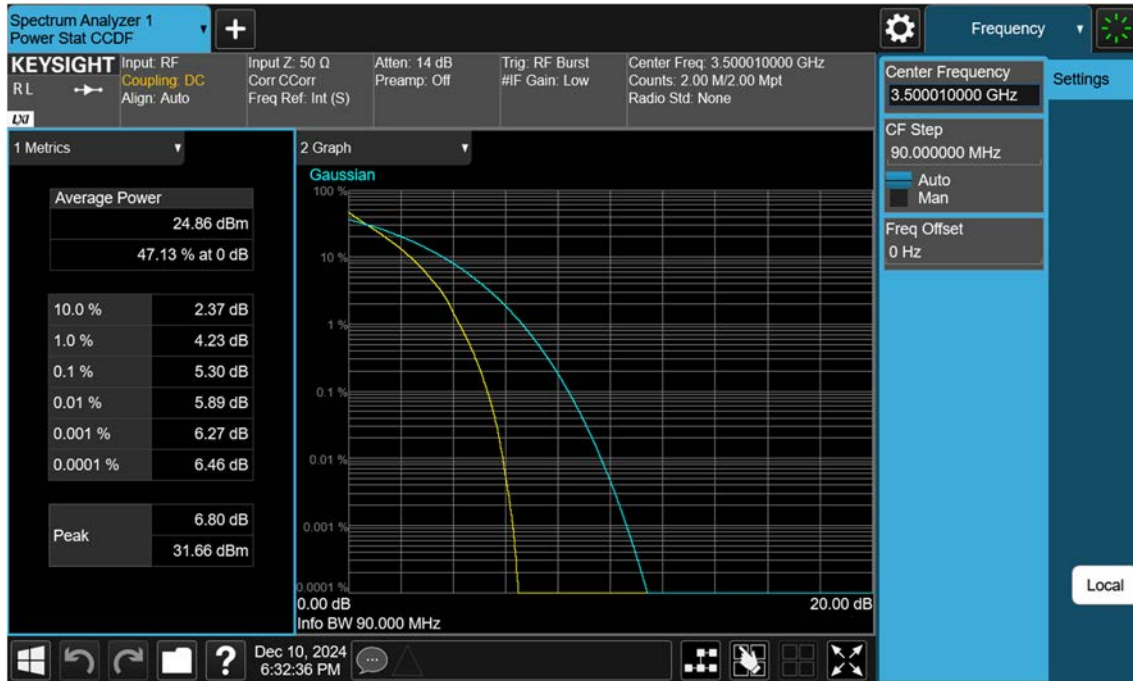
n77(3450~3550 MHz)_80 M_PAR_Mid_256QAM_FullRB



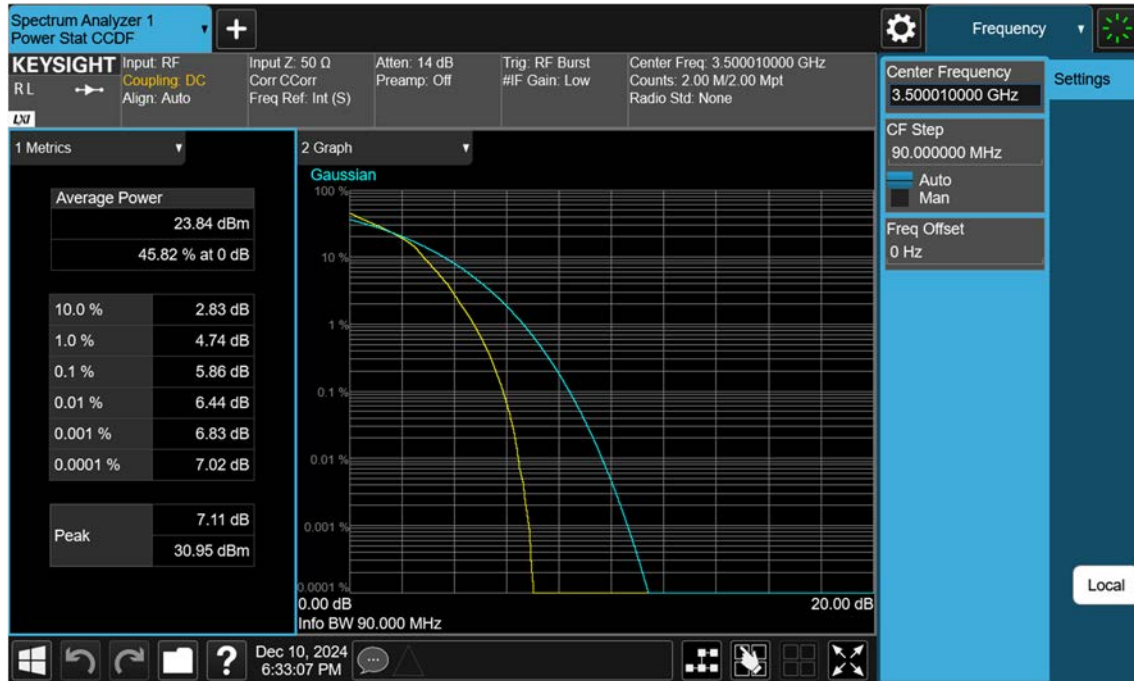
n77(3450~3550 MHz)_90 M_PAR_Mid_BPSK_FullRB



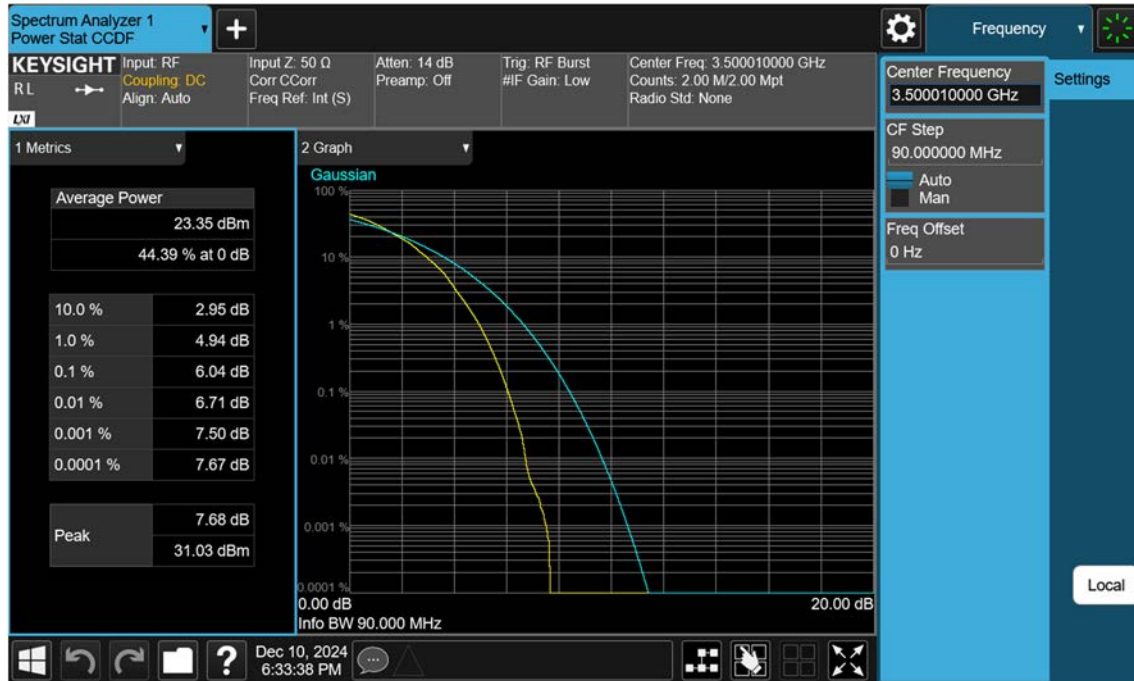
n77(3450~3550 MHz)_90 M_PAR_Mid_QPSK_FullRB



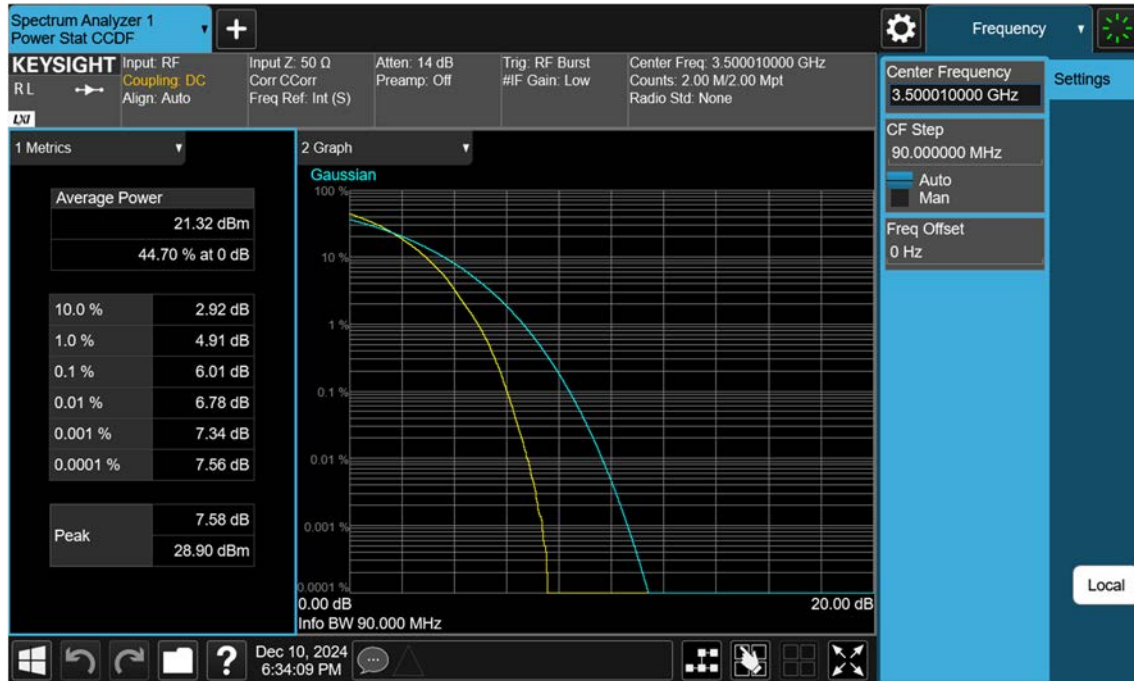
n77(3450~3550 MHz)_90 M_PAR_Mid_16QAM_FullRB



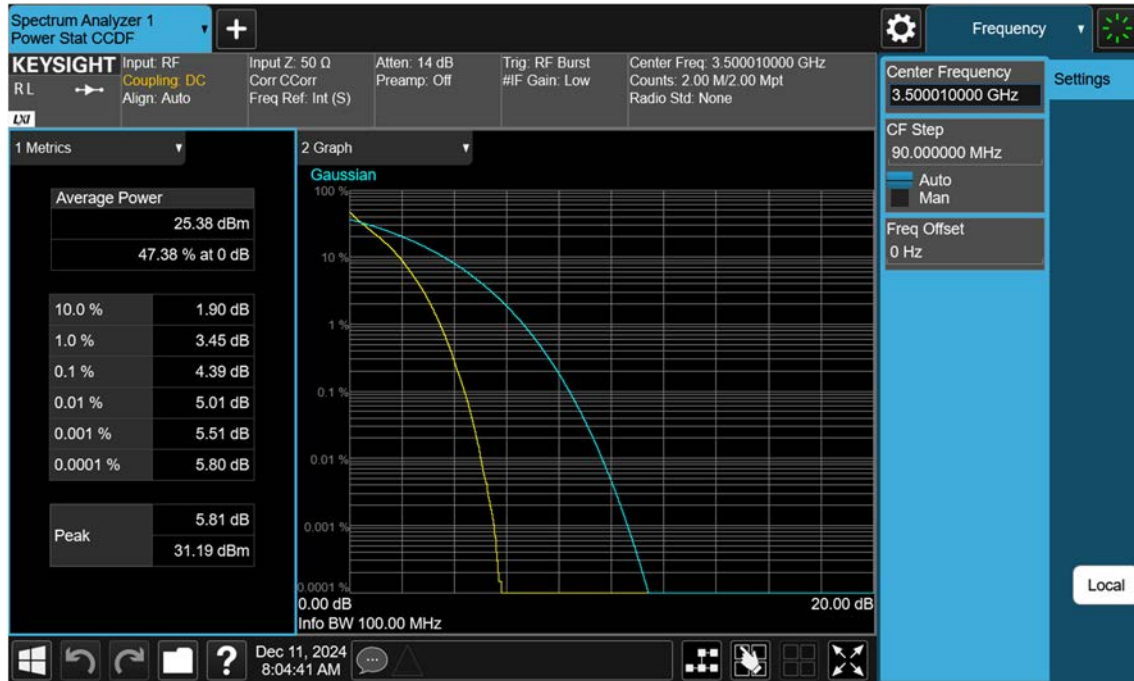
n77(3450~3550 MHz)_90 M_PAR_Mid_64QAM_FullRB



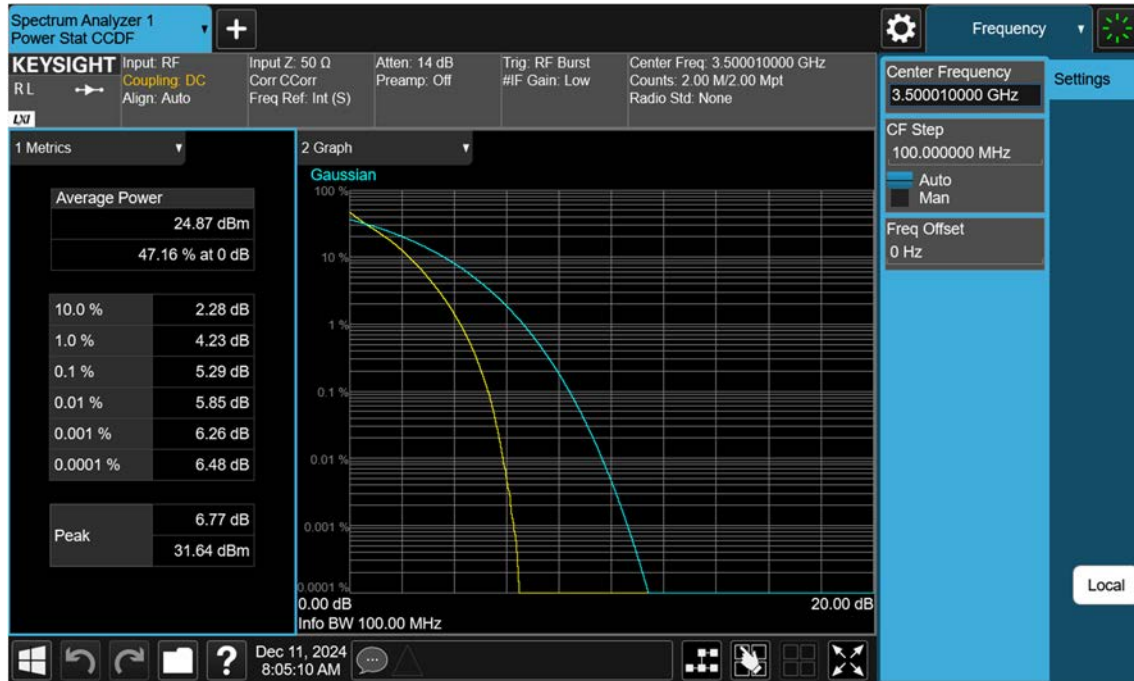
n77(3450~3550 MHz)_90 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_100 M_PAR_Mid_BPSK_FullRB



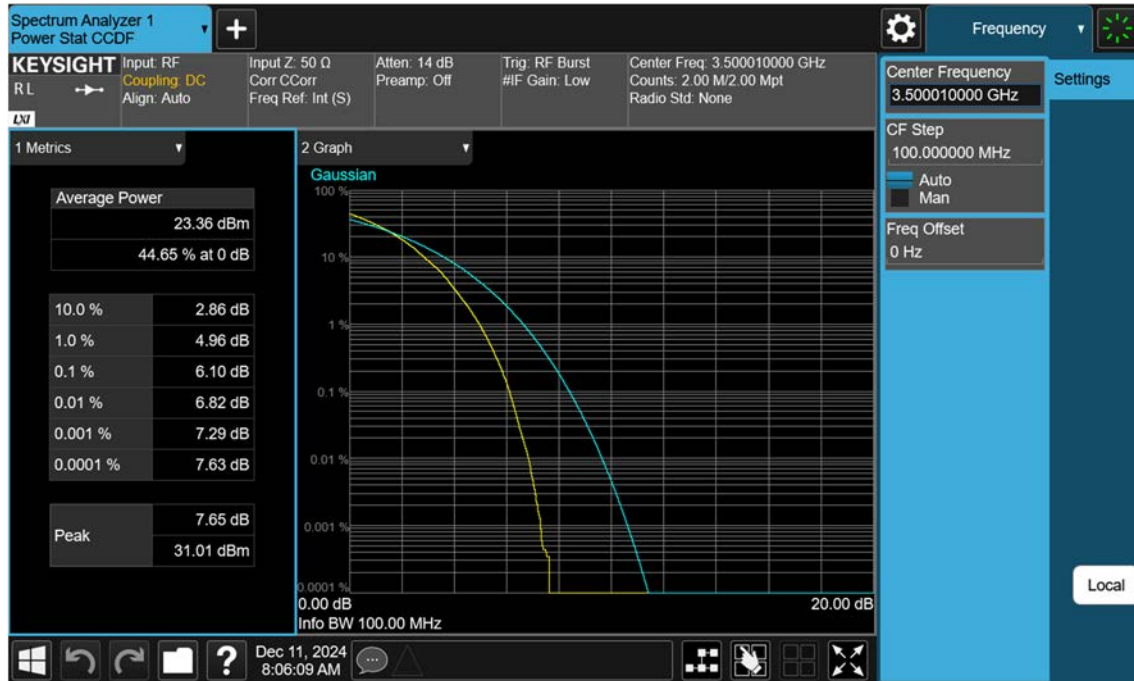
n77(3450~3550 MHz)_100 M_PAR_Mid_QPSK_FullRB



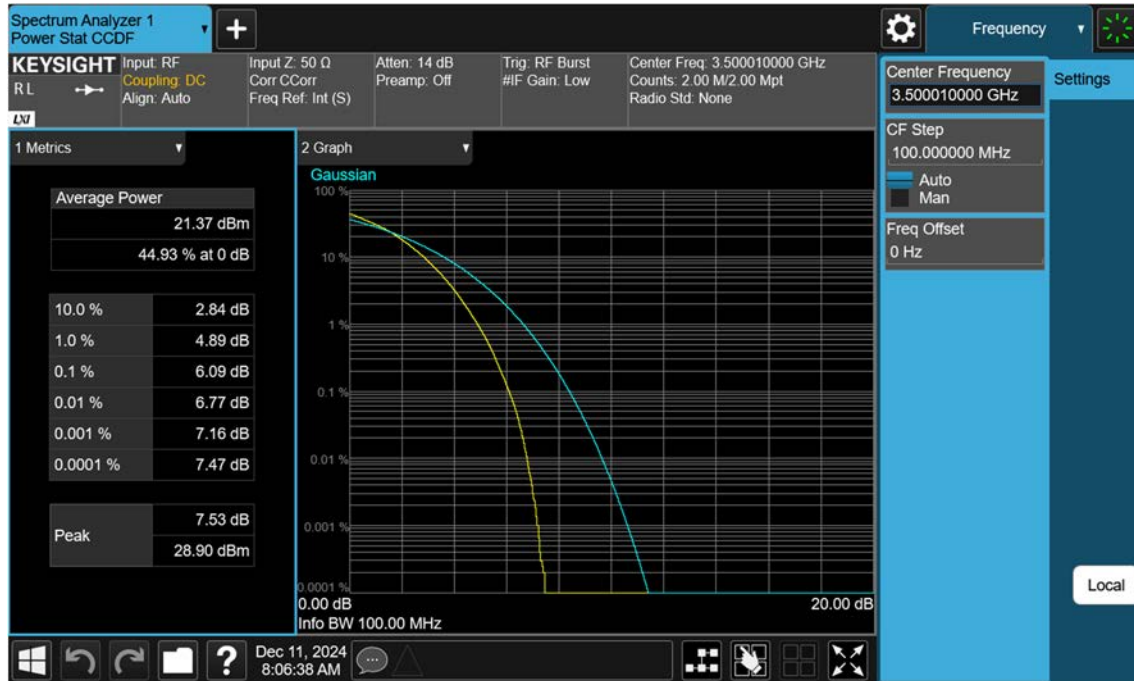
n77(3450~3550 MHz)_100 M_PAR_Mid_16QAM_FullRB



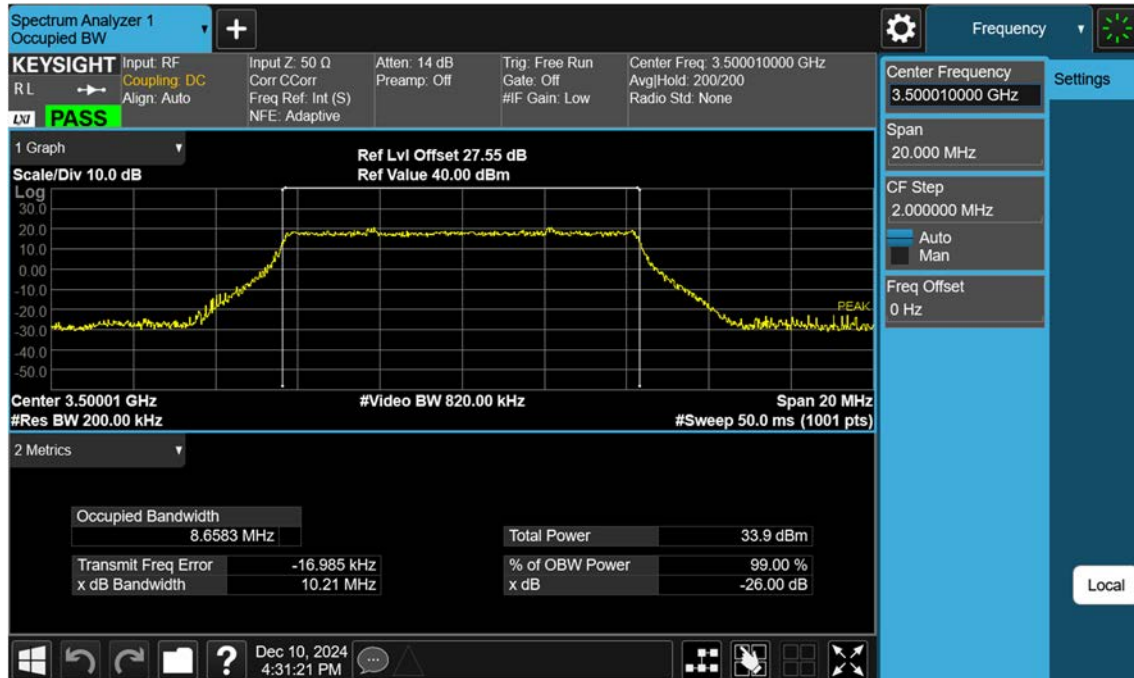
n77(3450~3550 MHz)_100 M_PAR_Mid_64QAM_FullRB



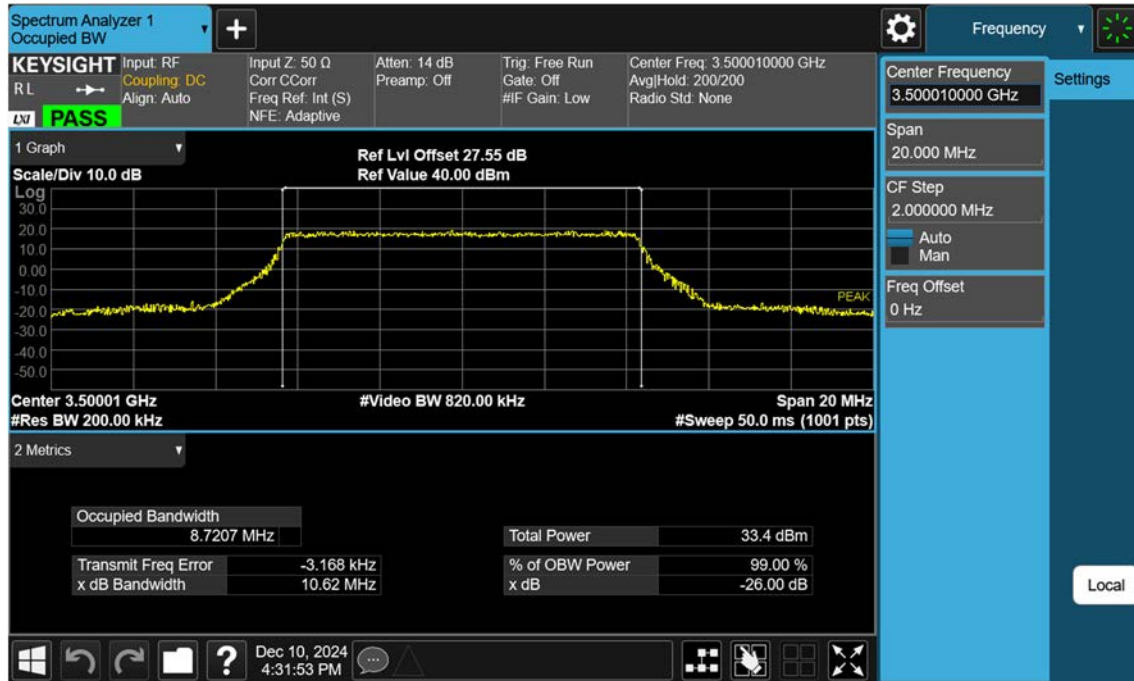
n77(3450~3550 MHz)_100 M_PAR_Mid_256QAM_FullRB



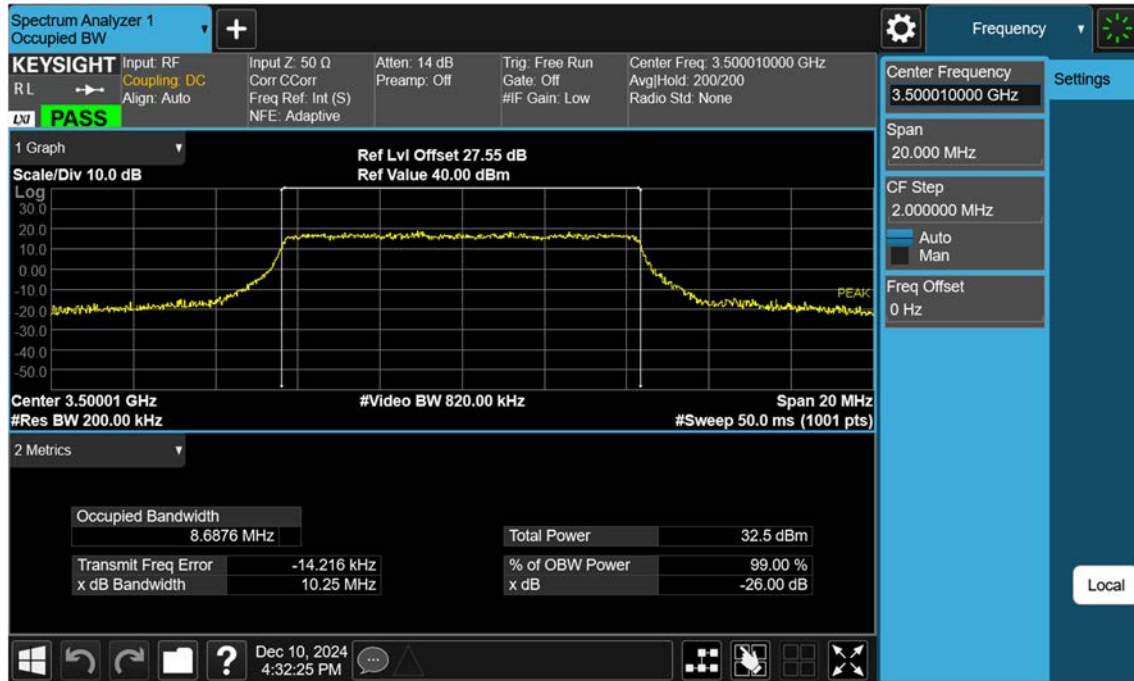
n77(3450~3550 MHz)_10 M_OBW_Mid_BPSK_FullRB



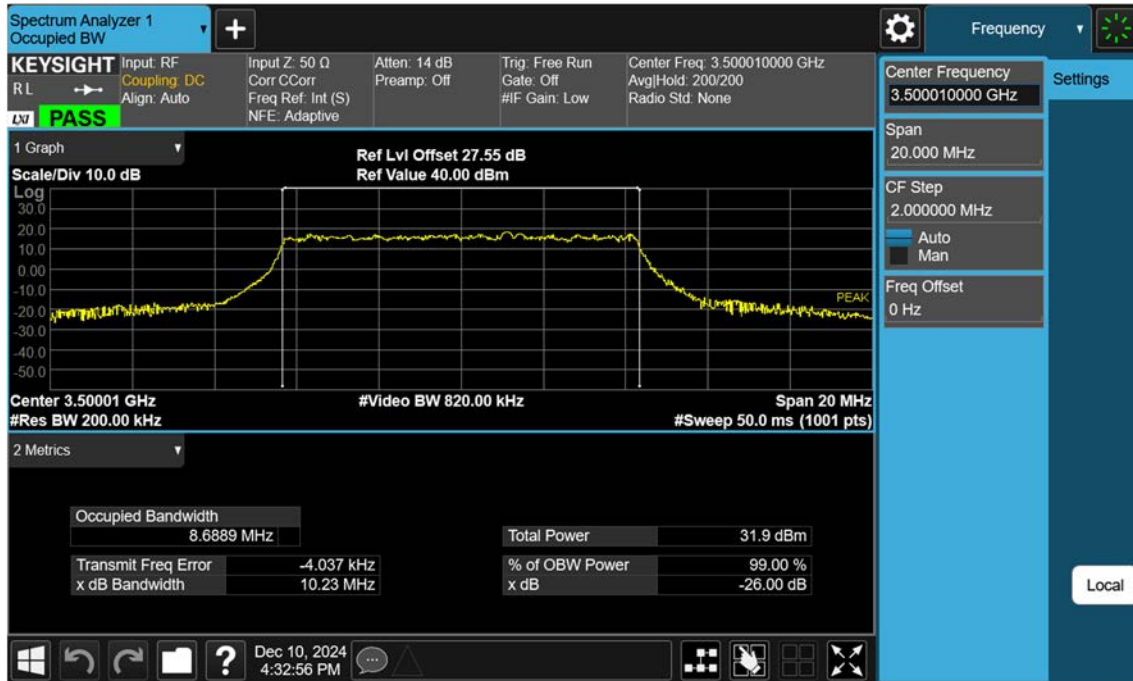
n77(3450~3550 MHz)_10 M_OBW_Mid_QPSK_FullRB



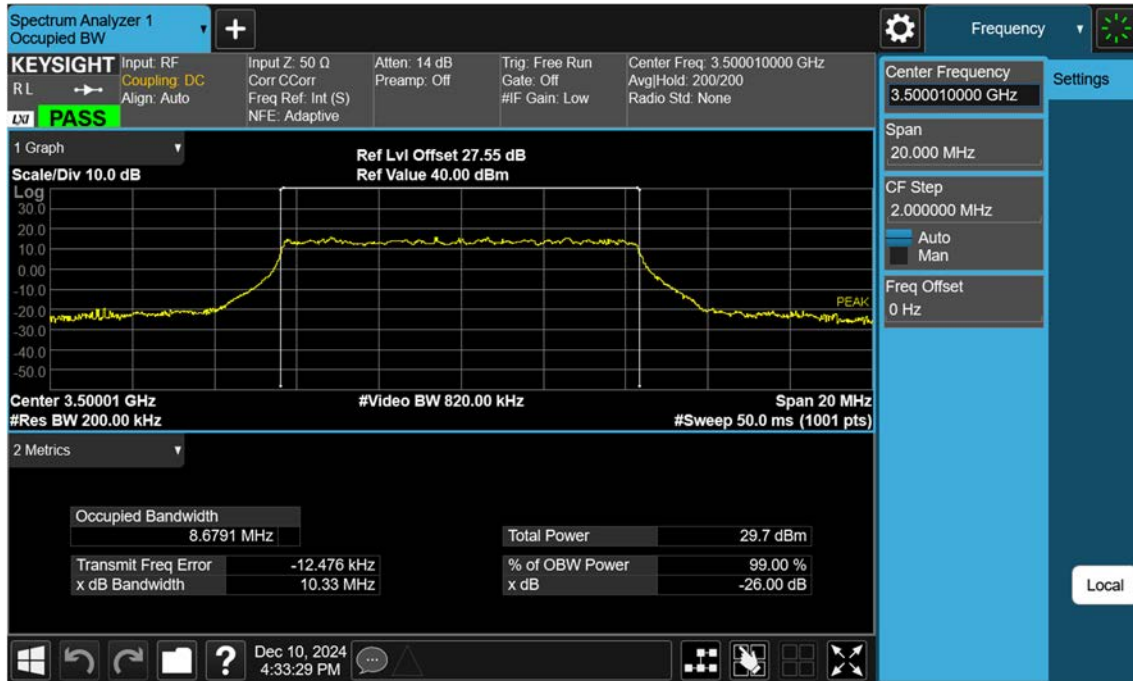
n77(3450~3550 MHz)_10 M_OBW_Mid_16QAM_FullRB



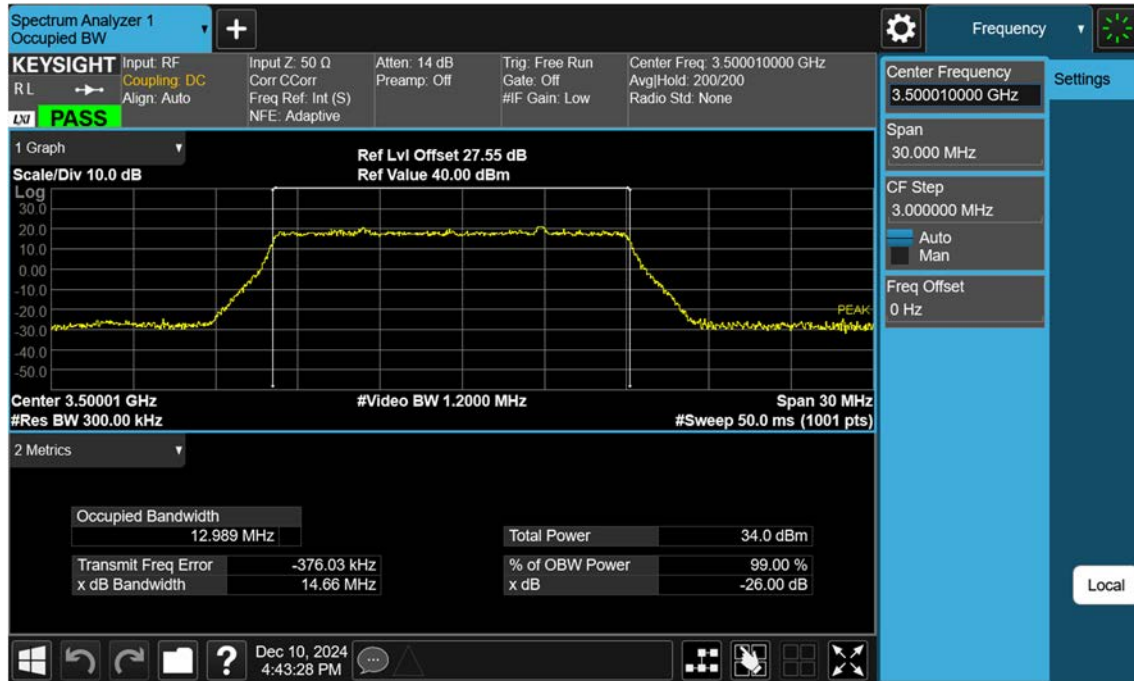
n77(3450~3550 MHz)_10 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_10 M_OBW_Mid_256QAM_FullRB



n77(3450~3550 MHz)_15 M_OBW_Mid_BPSK_FullRB



n77(3450~3550 MHz)_15 M_OBW_Mid_QPSK_FullRB

