

TEST REPORT

FCC Sub6 n77(78) Test for SM-X526B
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2502-FC049

DATE OF ISSUE
February 17, 2025

Tested by
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Applicant

SAMSUNG Electronics Co., Ltd.

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

Product Name

Tablet

Model Name

SM-X526B

Date of Test

December 26, 2024 ~ February 12, 2025

FCC ID

A3LSMX526B

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing

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

FCC Classification:

PCS Licensed Transmitter (PCB)

Test Standard Used

FCC Rule Part: § 27

Test Results

PASS

REVISION HISTORY

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

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

Notice

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:	A3LSMX526B
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part(s):	§ 27
EUT Type:	Tablet
Model(s):	SM-X526B
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:	December 26, 2024 ~ February 12, 2025
Serial number:	Radiated : R32XC00BE2B Conducted : R32XC00AY5E

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	8M70G7D	PI/2 BPSK	0.512	27.09
		8M68G7D	QPSK	0.511	27.08
		8M70W7D	16QAM	0.403	26.05
		8M66W7D	64QAM	0.294	24.69
		8M68W7D	256QAM	0.170	22.31
Sub6 n77(78) (15)	3457.50 – 3542.50	13M0G7D	PI/2 BPSK	0.506	27.04
		13M0G7D	QPSK	0.505	27.03
		13M0W7D	16QAM	0.402	26.04
		13M0W7D	64QAM	0.304	24.83
		12M9W7D	256QAM	0.175	22.44
Sub6 n77(78) (20)	3460.02 – 3540.00	18M0G7D	PI/2 BPSK	0.520	27.16
		18M0G7D	QPSK	0.500	26.99
		18M0W7D	16QAM	0.402	26.04
		18M0W7D	64QAM	0.279	24.45
		17M9W7D	256QAM	0.183	22.62
Sub6 n77(78) (25)	3462.50 – 3537.50	23M1G7D	PI/2 BPSK	0.524	27.19
		23M1G7D	QPSK	0.509	27.07
		23M0W7D	16QAM	0.408	26.11
		23M0W7D	64QAM	0.274	24.38
		23M0W7D	256QAM	0.176	22.45
Sub6 n77(78) (30)	3465.00 – 3534.99	27M0G7D	PI/2 BPSK	0.545	27.36
		26M9G7D	QPSK	0.516	27.13
		26M9W7D	16QAM	0.414	26.17
		27M0W7D	64QAM	0.292	24.66
		26M9W7D	256QAM	0.192	22.84
Sub6 n77(78) (40)	3470.01 – 3529.98	36M0G7D	PI/2 BPSK	0.533	27.27
		35M9G7D	QPSK	0.528	27.23
		35M9W7D	16QAM	0.437	26.40
		36M0W7D	64QAM	0.318	25.02
		35M9W7D	256QAM	0.175	22.42
Sub6 n77(78) (50)	3475.02 – 3525.00	46M1G7D	PI/2 BPSK	0.528	27.23
		45M9G7D	QPSK	0.506	27.04
		46M0W7D	16QAM	0.426	26.29
		46M2W7D	64QAM	0.301	24.78
		45M9W7D	256QAM	0.187	22.72
Sub6 n77(78) (60)	3480.00 – 3519.99	58M3G7D	PI/2 BPSK	0.528	27.23
		58M2G7D	QPSK	0.508	27.06
		58M1W7D	16QAM	0.417	26.20
		58M2W7D	64QAM	0.283	24.52
		58M1W7D	256QAM	0.184	22.65
Sub6 n77(78) (70)	3485.01 – 3514.98	64M9G7D	PI/2 BPSK	0.536	27.29
		64M8G7D	QPSK	0.532	27.26
		64M5W7D	16QAM	0.420	26.23
		64M8W7D	64QAM	0.286	24.56
		64M4W7D	256QAM	0.180	22.55
Sub6 n77(78) (80)	3490.02 – 3510.00	77M5G7D	PI/2 BPSK	0.543	27.35
		77M5G7D	QPSK	0.528	27.23
		77M7W7D	16QAM	0.415	26.18
		77M6W7D	64QAM	0.296	24.71
		77M7W7D	256QAM	0.187	22.72
Sub6 n77(78) (90)	3495.00 – 3504.99	87M3G7D	PI/2 BPSK	0.535	27.28
		87M2G7D	QPSK	0.530	27.24
		87M3W7D	16QAM	0.435	26.38
		87M2W7D	64QAM	0.316	24.99
		87M1W7D	256QAM	0.190	22.79
Sub6 n77(78) (100)	3500.01	96M8G7D	PI/2 BPSK	0.524	27.19
		96M6G7D	QPSK	0.521	27.17
		96M5W7D	16QAM	0.402	26.04
		96M8W7D	64QAM	0.281	24.48
		96M4W7D	256QAM	0.179	22.53

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	8M65G7D	PI/2 BPSK	0.491	26.91
		8M63G7D	QPSK	0.488	26.88
		8M65W7D	16QAM	0.385	25.86
		8M67W7D	64QAM	0.280	24.47
		8M71W7D	256QAM	0.171	22.32
Sub6 n77(78) (15)	3707.51 – 3972.48	13M0G7D	PI/2 BPSK	0.485	26.86
		13M0G7D	QPSK	0.469	26.71
		13M0W7D	16QAM	0.367	25.65
		12M9W7D	64QAM	0.267	24.27
		13M0W7D	256QAM	0.163	22.11
Sub6 n77(78) (20)	3710.01 – 3969.99	18M0G7D	PI/2 BPSK	0.479	26.80
		18M0G7D	QPSK	0.478	26.79
		18M0W7D	16QAM	0.392	25.93
		18M0W7D	64QAM	0.269	24.29
		17M9W7D	256QAM	0.166	22.20
Sub6 n77(78) (25)	3712.50 – 3967.50	23M0G7D	PI/2 BPSK	0.498	26.97
		23M0G7D	QPSK	0.491	26.91
		22M9W7D	16QAM	0.384	25.84
		23M0W7D	64QAM	0.270	24.31
		22M9W7D	256QAM	0.173	22.37
Sub6 n77(78) (30)	3715.02 – 3964.98	27M1G7D	PI/2 BPSK	0.493	26.93
		26M9G7D	QPSK	0.491	26.91
		27M0W7D	16QAM	0.395	25.97
		27M0W7D	64QAM	0.267	24.26
		27M0W7D	256QAM	0.168	22.26
Sub6 n77(78) (40)	3720.00 – 3960.00	36M0G7D	PI/2 BPSK	0.504	27.02
		35M9G7D	QPSK	0.491	26.91
		35M9W7D	16QAM	0.379	25.79
		35M9W7D	64QAM	0.263	24.20
		35M8W7D	256QAM	0.176	22.45
Sub6 n77(78) (50)	3725.10 – 3954.99	45M9G7D	PI/2 BPSK	0.507	27.05
		46M0G7D	QPSK	0.498	26.97
		46M0W7D	16QAM	0.399	26.01
		45M8W7D	64QAM	0.286	24.56
		46M0W7D	256QAM	0.175	22.44
Sub6 n77(78) (60)	3730.02 – 3949.98	58M1G7D	PI/2 BPSK	0.522	27.18
		58M2G7D	QPSK	0.518	27.14
		58M1W7D	16QAM	0.408	26.11
		58M1W7D	64QAM	0.279	24.45
		58M0W7D	256QAM	0.180	22.56
Sub6 n77(78) (70)	3735.00 – 3945.00	64M8G7D	PI/2 BPSK	0.540	27.32
		64M6G7D	QPSK	0.528	27.23
		64M5W7D	16QAM	0.419	26.22
		64M7W7D	64QAM	0.306	24.86
		64M7W7D	256QAM	0.191	22.80
Sub6 n77(78) (80)	3740.01 – 3939.99	77M5G7D	PI/2 BPSK	0.552	27.42
		77M7G7D	QPSK	0.548	27.39
		77M3W7D	16QAM	0.430	26.33
		77M5W7D	64QAM	0.311	24.93
		77M3W7D	256QAM	0.196	22.93
Sub6 n77(78) (90)	3745.02 – 3934.98	87M1G7D	PI/2 BPSK	0.573	27.58
		87M1G7D	QPSK	0.557	27.46
		87M2W7D	16QAM	0.437	26.40
		87M2W7D	64QAM	0.315	24.98
		87M0W7D	256QAM	0.200	23.01
Sub6 n77(78) (100)	3750.00 – 3930.00	96M8G7D	PI/2 BPSK	0.566	27.53
		96M8G7D	QPSK	0.555	27.44
		97M0W7D	16QAM	0.445	26.48
		96M8W7D	64QAM	0.329	25.17
		97M1W7D	256QAM	0.197	22.94

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;

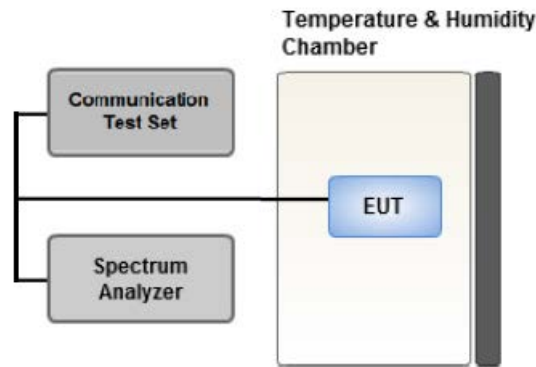
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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)

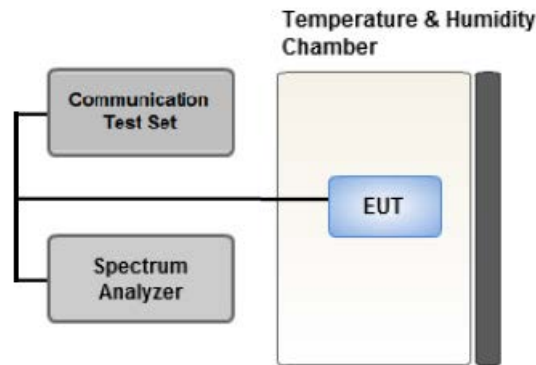
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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.

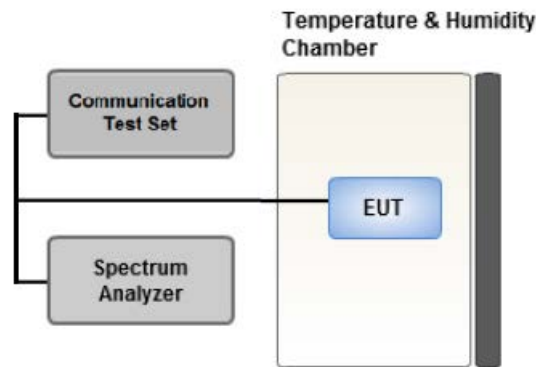
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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 $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5 % of the 99 % occupied bandwidth observed in Step 7

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

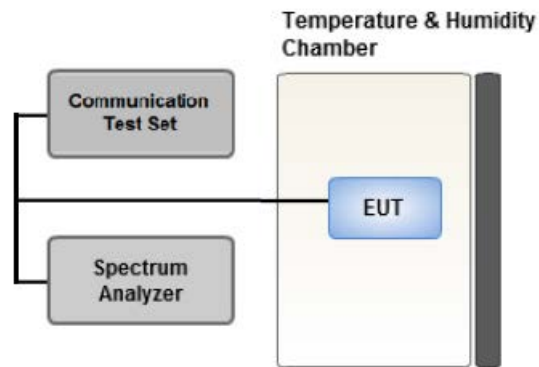
Test Overview

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

Test Settings

1. RBW = 1 MHz
2. VBW $\geq$ 3 MHz
3. Detector = Peak
4. Trace Mode = max hold
5. Sweep time = auto
6. Number of points in sweep $\geq 2 \times \text{Span} / \text{RBW}$

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.

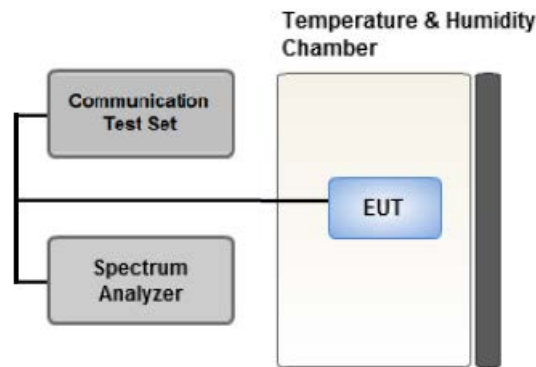
However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz.

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
Worst case: SA
Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)
Worst case : Stand alone
- All simultaneous transmission scenarios of operation were investigated, and the test results showed no additional significant emissions relative to the least restrictive limit were observed.
Therefore, only the worst case(stand-alone) results were reported.
- All power classes were tested, and the results were reported for the worst case PC2.
- Radiated Spurious emissions are measured while operating in EN-DC mode with Sub 6 NR carrier as well as an LTE carrier (anchor).
All EN-DC mode of operation (=anchor) were investigated and the test results were measured No Peak Found.
The test results which are attenuated more than 20 dB below the permissible value, so it was not reported.
- In the case of radiated spurious emissions, all bandwidth of operation were investigated and the worst case bandwidth results are reported.
(Worst case : 30 MHz(3450 MHz – 3550 MHz), 90 MHz (3700 MHz – 3980 MHz))
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.

[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		X
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		X
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 9.2		Y

3.10 WORST CASE(CONDUCTED TEST)

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

[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
Trilog Broadband Antenna	VULB9168	Schwarzbeck	895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	1135	08/19/2026	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	02/04/2026	Annual
Chamber	SU-642	ESPEC	93022487	06/27/2025	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	02/04/2026	Annual
Signal & Spectrum Analyzer (2 Hz~67 GHz)	FSW67	REOHDE & SCHWARZ	101736	05/23/2025	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
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/26/2025	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	-20.88	17.10	11.96	3.04	H	< 1.00	0.400	26.02	1	1
		QPSK	-20.91	17.07	11.96	3.04	H		0.397	25.99		
		16-QAM	-21.62	16.36	11.96	3.04	H		0.337	25.28		
		64-QAM	-23.30	14.68	11.96	3.04	H		0.229	23.60		
		256-QAM	-25.34	12.64	11.96	3.04	H		0.143	21.56		
3500.01		PI/2 BPSK	-21.54	16.78	12.04	3.04	H		0.378	25.78	1	12
		QPSK	-21.69	16.63	12.04	3.04	H		0.366	25.63		
		16-QAM	-22.39	15.93	12.04	3.04	H		0.311	24.93		
		64-QAM	-24.09	14.23	12.04	3.04	H		0.210	23.23		
		256-QAM	-26.04	12.28	12.04	3.04	H		0.134	21.28		
3544.99		PI/2 BPSK	-20.23	18.12	12.04	3.07	H		0.512	27.09	1	1
		QPSK	-20.24	18.11	12.04	3.07	H		0.511	27.08		
		16-QAM	-21.27	17.08	12.04	3.07	H		0.403	26.05		
		64-QAM	-22.63	15.72	12.04	3.07	H		0.294	24.69		
		256-QAM	-25.01	13.34	12.04	3.07	H		0.170	22.31		

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	-20.76	17.25	12.00	3.04	H	< 1.00	0.418	26.21	1	1
		QPSK	-20.82	17.19	12.00	3.04	H		0.412	26.15		
		16-QAM	-21.63	16.38	12.00	3.04	H		0.342	25.34		
		64-QAM	-23.18	14.83	12.00	3.04	H		0.239	23.79		
		256-QAM	-25.31	12.70	12.00	3.04	H		0.147	21.66		
3500.01	Sub6 n77(78)/ 15 MHz [30 kHz]	PI/2 BPSK	-21.14	17.18	12.04	3.04	H	< 1.00	0.415	26.18	1	36
		QPSK	-21.47	16.85	12.04	3.04	H		0.385	25.85		
		16-QAM	-22.27	16.05	12.04	3.04	H		0.320	25.05		
		64-QAM	-23.72	14.60	12.04	3.04	H		0.229	23.60		
		256-QAM	-25.99	12.33	12.04	3.04	H		0.136	21.33		
3542.50		PI/2 BPSK	-20.28	18.07	12.04	3.07	H	< 1.00	0.506	27.04	1	19
		QPSK	-20.29	18.06	12.04	3.07	H		0.505	27.03		
		16-QAM	-21.28	17.07	12.04	3.07	H		0.402	26.04		
		64-QAM	-22.49	15.86	12.04	3.07	H		0.304	24.83		
		256-QAM	-24.88	13.47	12.04	3.07	H		0.175	22.44		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3460.02	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-21.00	17.01	12.00	3.04	H	< 1.00	0.395	25.97	1	49
		QPSK	-21.12	16.89	12.00	3.04	H		0.385	25.85		
		16-QAM	-21.78	16.23	12.00	3.04	H		0.330	25.19		
		64-QAM	-23.53	14.48	12.00	3.04	H		0.221	23.44		
		256-QAM	-25.45	12.56	12.00	3.04	H		0.142	21.52		
3500.01		PI/2 BPSK	-21.10	17.22	12.04	3.04	H		0.419	26.22	1	49
		QPSK	-21.26	17.06	12.04	3.04	H		0.404	26.06		
		16-QAM	-22.10	16.22	12.04	3.04	H		0.333	25.22		
		64-QAM	-23.85	14.47	12.04	3.04	H		0.222	23.47		
		256-QAM	-25.54	12.78	12.04	3.04	H		0.151	21.78		
3540.00		PI/2 BPSK	-20.10	18.18	12.04	3.06	H	0.520	27.16	1	25	
		QPSK	-20.27	18.01	12.04	3.06	H	0.500	26.99			
		16-QAM	-21.22	17.06	12.04	3.06	H	0.402	26.04			
		64-QAM	-22.81	15.47	12.04	3.06	H	0.279	24.45			
		256-QAM	-24.64	13.64	12.04	3.06	H	0.183	22.62			

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	-20.73	17.27	12.02	3.02	H	< 1.00	0.424	26.27	1	1
		QPSK	-20.81	17.19	12.02	3.02	H		0.416	26.19		
		16-QAM	-21.63	16.37	12.02	3.02	H		0.344	25.37		
		64-QAM	-23.33	14.67	12.02	3.02	H		0.233	23.67		
		256-QAM	-25.35	12.65	12.02	3.02	H		0.146	21.65		
3500.01		PI/2 BPSK	-21.13	17.19	12.04	3.04	H		0.416	26.19	1	63
		QPSK	-21.17	17.15	12.04	3.04	H		0.412	26.15		
		16-QAM	-21.82	16.50	12.04	3.04	H		0.355	25.50		
		64-QAM	-23.40	14.92	12.04	3.04	H		0.247	23.92		
		256-QAM	-25.53	12.79	12.04	3.04	H		0.151	21.79		
3537.50		PI/2 BPSK	-20.07	18.21	12.04	3.06	H		0.524	27.19	1	32
		QPSK	-20.19	18.09	12.04	3.06	H		0.509	27.07		
		16-QAM	-21.15	17.13	12.04	3.06	H		0.408	26.11		
		64-QAM	-22.88	15.40	12.04	3.06	H		0.274	24.38		
		256-QAM	-24.81	13.47	12.04	3.06	H		0.176	22.45		

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
3465.00		PI/2 BPSK	-20.77	17.23	12.02	3.02	H	< 1.00	0.420	26.23	1	1
		QPSK	-20.85	17.15	12.02	3.02	H		0.412	26.15		
		16-QAM	-21.89	16.11	12.02	3.02	H		0.324	25.11		
		64-QAM	-23.47	14.53	12.02	3.02	H		0.225	23.53		
		256-QAM	-25.65	12.35	12.02	3.02	H		0.137	21.35		
3500.01	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-20.72	17.60	12.04	3.04	H	< 1.00	0.457	26.60	1	76
		QPSK	-20.80	17.52	12.04	3.04	H		0.449	26.52		
		16-QAM	-21.97	16.35	12.04	3.04	H		0.343	25.35		
		64-QAM	-23.31	15.01	12.04	3.04	H		0.252	24.01		
		256-QAM	-25.44	12.88	12.04	3.04	H		0.154	21.88		
3534.99		PI/2 BPSK	-19.93	18.37	12.04	3.05	H	< 1.00	0.545	27.36	1	39
		QPSK	-20.16	18.14	12.04	3.05	H		0.516	27.13		
		16-QAM	-21.12	17.18	12.04	3.05	H		0.414	26.17		
		64-QAM	-22.63	15.67	12.04	3.05	H		0.292	24.66		
		256-QAM	-24.45	13.85	12.04	3.05	H		0.192	22.84		

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	-20.70	17.30	12.04	3.01	H	< 1.00	0.430	26.33	1	1
		QPSK	-20.93	17.07	12.04	3.01	H		0.407	26.10		
		16-QAM	-21.68	16.32	12.04	3.01	H		0.343	25.35		
		64-QAM	-23.38	14.62	12.04	3.01	H		0.232	23.65		
		256-QAM	-25.04	12.96	12.04	3.01	H		0.158	21.99		
3500.01	Sub6 n77(78)/ 40 MHz [30 kHz]	PI/2 BPSK	-20.76	17.56	12.04	3.04	H	< 1.00	0.453	26.56	1	104
		QPSK	-20.80	17.52	12.04	3.04	H		0.449	26.52		
		16-QAM	-21.82	16.50	12.04	3.04	H		0.355	25.50		
		64-QAM	-23.27	15.05	12.04	3.04	H		0.254	24.05		
		256-QAM	-25.26	13.06	12.04	3.04	H		0.161	22.06		
3529.98		PI/2 BPSK	-20.04	18.28	12.04	3.05	H	< 1.00	0.533	27.27	1	53
		QPSK	-20.08	18.24	12.04	3.05	H		0.528	27.23		
		16-QAM	-20.91	17.41	12.04	3.05	H		0.437	26.40		
		64-QAM	-22.29	16.03	12.04	3.05	H		0.318	25.02		
		256-QAM	-24.89	13.43	12.04	3.05	H		0.175	22.42		

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	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-20.74	17.28	12.04	3.02	H	< 1.00	0.427	26.30	1	1
		QPSK	-20.79	17.23	12.04	3.02	H		0.422	26.25		
		16-QAM	-21.75	16.27	12.04	3.02	H		0.338	25.29		
		64-QAM	-23.15	14.87	12.04	3.02	H		0.245	23.89		
		256-QAM	-25.16	12.86	12.04	3.02	H		0.154	21.88		
3500.01		PI/2 BPSK	-20.34	17.98	12.04	3.04	H		0.499	26.98	1	131
		QPSK	-20.37	17.95	12.04	3.04	H		0.496	26.95		
		16-QAM	-21.49	16.83	12.04	3.04	H		0.383	25.83		
		64-QAM	-23.00	15.32	12.04	3.04	H		0.270	24.32		
		256-QAM	-25.32	13.00	12.04	3.04	H		0.159	22.00		
3525.00		PI/2 BPSK	-20.17	18.23	12.04	3.04	H		0.528	27.23	1	66
		QPSK	-20.36	18.04	12.04	3.04	H		0.506	27.04		
		16-QAM	-21.11	17.29	12.04	3.04	H		0.426	26.29		
		64-QAM	-22.62	15.78	12.04	3.04	H		0.301	24.78		
		256-QAM	-24.68	13.72	12.04	3.04	H		0.187	22.72		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3480.00		PI/2 BPSK	-20.69	17.34	12.04	3.02	H	< 1.00	0.433	26.36	1	1
		QPSK	-20.83	17.20	12.04	3.02	H		0.419	26.22		
		16-QAM	-21.83	16.20	12.04	3.02	H		0.333	25.22		
		64-QAM	-23.23	14.80	12.04	3.02	H		0.241	23.82		
		256-QAM	-25.21	12.82	12.04	3.02	H		0.153	21.84		
3500.01	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-20.09	18.23	12.04	3.04	H	< 1.00	0.528	27.23	1	160
		QPSK	-20.26	18.06	12.04	3.04	H		0.508	27.06		
		16-QAM	-21.34	16.98	12.04	3.04	H		0.396	25.98		
		64-QAM	-22.80	15.52	12.04	3.04	H		0.283	24.52		
		256-QAM	-24.67	13.65	12.04	3.04	H		0.184	22.65		
3519.99		PI/2 BPSK	-20.36	18.13	12.04	3.04	H	< 1.00	0.516	27.13	1	160
		QPSK	-20.43	18.06	12.04	3.04	H		0.508	27.06		
		16-QAM	-21.29	17.20	12.04	3.04	H		0.417	26.20		
		64-QAM	-23.08	15.41	12.04	3.04	H		0.276	24.41		
		256-QAM	-25.07	13.42	12.04	3.04	H		0.175	22.42		

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	-20.48	17.62	12.04	3.03	H	< 1.00	0.460	26.63	1	187
		QPSK	-20.69	17.41	12.04	3.03	H		0.439	26.42		
		16-QAM	-21.62	16.48	12.04	3.03	H		0.354	25.49		
		64-QAM	-23.01	15.09	12.04	3.03	H		0.257	24.10		
		256-QAM	-25.31	12.79	12.04	3.03	H		0.151	21.80		
3500.01		PI/2 BPSK	-20.03	18.29	12.04	3.04	H		0.536	27.29	1	187
		QPSK	-20.06	18.26	12.04	3.04	H		0.532	27.26		
		16-QAM	-21.09	17.23	12.04	3.04	H		0.420	26.23		
		64-QAM	-22.77	15.55	12.04	3.04	H		0.285	24.55		
		256-QAM	-24.77	13.55	12.04	3.04	H		0.180	22.55		
3514.98		PI/2 BPSK	-20.36	18.16	12.04	3.04	H		0.520	27.16	1	187
		QPSK	-20.44	18.08	12.04	3.04	H		0.511	27.08		
		16-QAM	-21.44	17.08	12.04	3.04	H		0.406	26.08		
		64-QAM	-22.96	15.56	12.04	3.04	H		0.286	24.56		
		256-QAM	-24.98	13.54	12.04	3.04	H		0.180	22.54		

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	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-20.11	18.06	12.04	3.04	H	< 1.00	0.508	27.06	1	215
		QPSK	-20.15	18.02	12.04	3.04	H		0.504	27.02		
		16-QAM	-21.11	17.06	12.04	3.04	H		0.404	26.06		
		64-QAM	-22.77	15.40	12.04	3.04	H		0.275	24.40		
		256-QAM	-24.68	13.49	12.04	3.04	H		0.177	22.49		
3500.01		PI/2 BPSK	-19.97	18.35	12.04	3.04	H		0.543	27.35	1	215
		QPSK	-20.09	18.23	12.04	3.04	H		0.528	27.23		
		16-QAM	-21.14	17.18	12.04	3.04	H		0.415	26.18		
		64-QAM	-22.62	15.70	12.04	3.04	H		0.295	24.70		
		256-QAM	-24.87	13.45	12.04	3.04	H		0.176	22.45		
3510.00		PI/2 BPSK	-20.32	18.25	12.04	3.05	H		0.530	27.24	1	215
		QPSK	-20.36	18.21	12.04	3.05	H		0.525	27.20		
		16-QAM	-21.51	17.06	12.04	3.05	H		0.403	26.05		
		64-QAM	-22.85	15.72	12.04	3.05	H		0.296	24.71		
		256-QAM	-24.84	13.73	12.04	3.05	H		0.187	22.72		

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	-19.97	18.28	12.04	3.04	H	< 1.00	0.535	27.28	1	243
		QPSK	-20.01	18.24	12.04	3.04	H		0.530	27.24		
		16-QAM	-20.87	17.38	12.04	3.04	H		0.435	26.38		
		64-QAM	-22.26	15.99	12.04	3.04	H		0.316	24.99		
		256-QAM	-24.46	13.79	12.04	3.04	H		0.190	22.79		
3500.01	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-20.12	18.20	12.04	3.04	H	< 1.00	0.525	27.20	1	243
		QPSK	-20.20	18.12	12.04	3.04	H		0.515	27.12		
		16-QAM	-21.13	17.19	12.04	3.04	H		0.416	26.19		
		64-QAM	-22.79	15.53	12.04	3.04	H		0.284	24.53		
		256-QAM	-24.69	13.63	12.04	3.04	H		0.183	22.63		
3504.99		PI/2 BPSK	-20.27	18.18	12.04	3.05	H	< 1.00	0.521	27.17	1	243
		QPSK	-20.34	18.11	12.04	3.05	H		0.513	27.10		
		16-QAM	-21.40	17.05	12.04	3.05	H		0.402	26.04		
		64-QAM	-22.86	15.59	12.04	3.05	H		0.287	24.58		
		256-QAM	-24.79	13.66	12.04	3.05	H		0.184	22.65		

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	-20.13	18.19	12.04	3.04	H	< 1.00	0.524	27.19	1	271
		QPSK	-20.15	18.17	12.04	3.04	H		0.521	27.17		
		16-QAM	-21.28	17.04	12.04	3.04	H		0.402	26.04		
		64-QAM	-22.84	15.48	12.04	3.04	H		0.281	24.48		
		256-QAM	-24.79	13.53	12.04	3.04	H		0.179	22.53		

8.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>N77(78)</u>
Bandwidth:	<u>30 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
631000 (3465.00)	6 930.00	-62.77	11.16	-56.90	4.40	V	-50.14	-13.00	1	1
	10 395.00	-63.37	11.70	-53.05	5.56	V	-46.91	-13.00		
	13 860.00	-61.57	13.05	-51.14	6.49	V	-44.58	-13.00		
633334 (3500.01)	7 000.02	-64.14	11.13	-57.49	4.45	V	-50.81	-13.00	1	76
	10 500.03	-64.46	11.71	-53.21	5.64	V	-47.14	-13.00		
	14 000.04	-60.42	12.76	-50.84	6.55	V	-44.63	-13.00		
635666 (3534.99)	7 069.98	-62.96	10.92	-55.87	4.50	V	-49.45	-13.00	1	39
	10 604.97	-63.24	11.58	-51.88	5.67	V	-45.97	-13.00		
	14 139.96	-60.65	12.77	-52.40	6.57	V	-46.20	-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	4.40
			QPSK			5.66
			16-QAM			6.34
			64-QAM			6.54
			256-QAM			6.81
	15 MHz		BPSK			5.18
			QPSK			5.61
			16-QAM			6.38
			64-QAM			6.36
			256-QAM			6.65
	20 MHz		BPSK			5.53
			QPSK			5.78
			16-QAM			6.37
			64-QAM			6.68
			256-QAM			6.66
	25 MHz		BPSK			4.54
			QPSK			5.70
			16-QAM			6.36
			64-QAM			6.64
			256-QAM			6.65
	30 MHz		BPSK			4.70
			QPSK			5.74
			16-QAM			6.51
			64-QAM			6.58
			256-QAM			6.78
	40 MHz		BPSK			6.04
			QPSK			6.24
			16-QAM			6.60
			64-QAM			6.69
			256-QAM			6.87
	50 MHz		BPSK			4.48
			QPSK			5.69
			16-QAM			6.46
			64-QAM			6.60
			256-QAM			6.69
	60 MHz		BPSK			4.63
			QPSK			5.65
			16-QAM			6.44
			64-QAM			6.61
			256-QAM			6.63
	70 MHz		BPSK			4.60
			QPSK			5.69
			16-QAM			6.39
			64-QAM			6.58
			256-QAM			6.66

	80 MHz		BPSK			4.75
			QPSK			5.70
			16-QAM			6.45
			64-QAM			6.54
			256-QAM			6.73
	90 MHz		BPSK			4.77
			QPSK			5.70
			16-QAM			6.42
			64-QAM			6.66
			256-QAM			6.61
	100 MHz		BPSK			5.22
			QPSK			5.68
			16-QAM			6.41
			64-QAM			6.54
			256-QAM			6.67

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	8.7041
			QPSK			8.6818
			16-QAM			8.6978
			64-QAM			8.6564
			256-QAM			8.6802
	15 MHz		BPSK			12.975
			QPSK			13.003
			16-QAM			12.987
			64-QAM			12.992
			256-QAM			12.925
	20 MHz		BPSK			17.954
			QPSK			17.962
			16-QAM			18.002
			64-QAM			17.988
			256-QAM			17.912
	25 MHz		BPSK			23.092
			QPSK			23.065
			16-QAM			22.983
			64-QAM			22.981
			256-QAM			23.008
	30 MHz		BPSK			26.973
			QPSK			26.935
			16-QAM			26.923
			64-QAM			26.951
			256-QAM			26.926
	40 MHz		BPSK			35.970
			QPSK			35.883
			16-QAM			35.905
			64-QAM			35.954
			256-QAM			35.906
	50 MHz		BPSK			46.062
			QPSK			45.924
			16-QAM			45.961
			64-QAM			46.202
			256-QAM			45.925
	60 MHz		BPSK			58.277
			QPSK			58.167
			16-QAM			58.142
			64-QAM			58.223
			256-QAM			58.123
	70 MHz		BPSK			64.909
			QPSK			64.756
			16-QAM			64.541
			64-QAM			64.756
			256-QAM			64.412

	80 MHz		BPSK			77.473
			QPSK			77.492
			16-QAM			77.711
			64-QAM			77.628
			256-QAM			77.722
	90 MHz		BPSK			87.260
			QPSK			87.206
			16-QAM			87.273
			64-QAM			87.172
			256-QAM			87.085
	100 MHz		BPSK			96.763
			QPSK			96.573
			16-QAM			96.538
			64-QAM			96.777
			256-QAM			96.431

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	4.5564	30.200	-62.229	-32.029	-13.00
		3500.010	4.9053	30.200	-61.477	-31.277	
		3544.980	10.0000	30.815	-61.302	-30.487	
	15	3457.500	4.9053	30.200	-60.908	-30.708	
		3500.010	9.1526	30.815	-62.308	-31.493	
		3542.490	5.4437	30.815	-62.106	-31.291	
	20	3460.020	9.9900	30.815	-61.598	-30.783	
		3500.010	8.3250	30.815	-61.765	-30.950	
		3540.000	5.3041	30.815	-61.460	-30.645	
	25	3462.510	4.9851	30.200	-61.652	-31.452	
		3500.010	9.1725	30.815	-61.893	-31.078	
		3537.480	4.8754	30.200	-61.962	-31.762	
	30	3465.000	9.5214	30.815	-62.483	-31.668	
		3500.010	4.9352	30.200	-61.613	-31.413	
		3534.990	4.5664	30.200	-61.700	-31.500	
	40	3470.010	4.9552	30.200	-60.168	-29.968	
		3500.010	6.9592	30.815	-61.405	-30.590	
		3529.980	6.3211	30.815	-61.787	-30.972	
	50	3475.020	8.8235	30.815	-61.885	-31.070	
		3500.010	8.1157	30.815	-62.496	-31.681	
		3525.000	8.3350	30.815	-62.004	-31.189	
	60	3480.000	5.9622	30.815	-62.018	-31.203	
		3500.010	4.8954	30.200	-61.902	-31.702	
		3519.990	5.7229	30.815	-62.218	-31.403	
	70	3485.010	9.1127	30.815	-62.331	-31.516	
		3500.010	5.1845	30.815	-61.983	-31.168	
		3514.980	6.0818	30.815	-61.901	-31.086	
	80	3490.020	4.9253	30.200	-59.955	-29.755	
		3500.010	7.1984	30.815	-61.790	-30.975	
		3510.000	7.1087	30.815	-60.957	-30.142	
	90	3495.000	4.9153	30.200	-61.760	-31.560	
		3500.010	5.7528	30.815	-61.768	-30.953	
		3504.990	4.9352	30.200	-62.142	-31.942	
	100	3500.010	4.9652	30.200	-59.984	-29.784	

Note:

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

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 %): 3.860 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 009 995	0.0	0.000 000	0.000
	100 %	-30	3455 009 989	-5.7	0.000 000	-0.002
	100 %	-20	3455 009 994	-1.1	0.000 000	0.000
	100 %	-10	3455 009 998	3.1	0.000 000	0.001
	100 %	0	3455 009 987	-7.4	0.000 000	-0.002
	100 %	+10	3455 009 997	2.0	0.000 000	0.001
	100 %	+30	3455 009 990	-4.8	0.000 000	-0.001
	100 %	+40	3455 009 993	-2.2	0.000 000	-0.001
	100 %	+50	3455 009 989	-5.5	0.000 000	-0.002
	Batt. Endpoint	+20	3455 009 992	-3.2	0.000 000	-0.001
3544.980	100 %	+20(Ref)	3544 979 996	0.0	0.000 000	0.000
	100 %	-30	3544 979 995	-1.0	0.000 000	0.000
	100 %	-20	3544 979 998	1.4	0.000 000	0.000
	100 %	-10	3544 979 993	-3.3	0.000 000	-0.001
	100 %	0	3544 979 990	-6.1	0.000 000	-0.002
	100 %	+10	3544 979 988	-7.9	0.000 000	-0.002
	100 %	+30	3544 979 991	-5.1	0.000 000	-0.001
	100 %	+40	3544 979 993	-3.2	0.000 000	-0.001
	100 %	+50	3544 979 993	-3.7	0.000 000	-0.001
	Batt. Endpoint	+20	3544 979 991	-5.1	0.000 000	-0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.860 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 500 000	0.0	0.000 000	0.000
	100 %	-30	3457 499 995	-4.9	0.000 000	-0.001
	100 %	-20	3457 499 994	-6.0	0.000 000	-0.002
	100 %	-10	3457 500 003	3.2	0.000 000	0.001
	100 %	0	3457 499 994	-5.6	0.000 000	-0.002
	100 %	+10	3457 499 994	-6.1	0.000 000	-0.002
	100 %	+30	3457 499 993	-7.1	0.000 000	-0.002
	100 %	+40	3457 499 997	-2.8	0.000 000	-0.001
	100 %	+50	3457 499 997	-2.3	0.000 000	-0.001
	Batt. Endpoint	+20	3457 499 993	-6.9	0.000 000	-0.002
3542.490	100 %	+20(Ref)	3542 490 001	0.0	0.000 000	0.000
	100 %	-30	3542 490 003	2.2	0.000 000	0.001
	100 %	-20	3542 489 998	-2.9	0.000 000	-0.001
	100 %	-10	3542 489 997	-3.7	0.000 000	-0.001
	100 %	0	3542 490 001	-0.2	0.000 000	0.000
	100 %	+10	3542 489 995	-6.3	0.000 000	-0.002
	100 %	+30	3542 490 002	0.5	0.000 000	0.000
	100 %	+40	3542 490 000	-1.0	0.000 000	0.000
	100 %	+50	3542 490 002	1.1	0.000 000	0.000
	Batt. Endpoint	+20	3542 490 001	-0.3	0.000 000	0.000

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.860 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 019 995	0.0	0.000 000	0.000
	100 %	-30	3460 019 989	-5.5	0.000 000	-0.002
	100 %	-20	3460 019 984	-10.1	0.000 000	-0.003
	100 %	-10	3460 019 993	-1.1	0.000 000	0.000
	100 %	0	3460 019 990	-5.0	0.000 000	-0.001
	100 %	+10	3460 019 995	0.7	0.000 000	0.000
	100 %	+30	3460 019 994	-0.3	0.000 000	0.000
	100 %	+40	3460 019 990	-4.2	0.000 000	-0.001
	100 %	+50	3460 019 986	-8.4	0.000 000	-0.002
	Batt. Endpoint	+20	3460 019 985	-9.4	0.000 000	-0.003
3540.000	100 %	+20(Ref)	3540 000 000	0.0	0.000 000	0.000
	100 %	-30	3539 999 997	-3.4	0.000 000	-0.001
	100 %	-20	3539 999 996	-4.6	0.000 000	-0.001
	100 %	-10	3539 999 997	-3.8	0.000 000	-0.001
	100 %	0	3539 999 996	-4.3	0.000 000	-0.001
	100 %	+10	3539 999 995	-5.7	0.000 000	-0.002
	100 %	+30	3539 999 996	-3.9	0.000 000	-0.001
	100 %	+40	3539 999 998	-2.0	0.000 000	-0.001
	100 %	+50	3540 000 004	3.2	0.000 000	0.001
	Batt. Endpoint	+20	3540 000 004	3.6	0.000 000	0.001

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.860 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 510 001	0.0	0.000 000	0.000
	100 %	-30	3462 509 984	-17.2	0.000 000	-0.005
	100 %	-20	3462 509 994	-7.3	0.000 000	-0.002
	100 %	-10	3462 509 996	-5.1	0.000 000	-0.001
	100 %	0	3462 509 994	-7.3	0.000 000	-0.002
	100 %	+10	3462 510 001	-0.1	0.000 000	0.000
	100 %	+30	3462 509 998	-3.9	0.000 000	-0.001
	100 %	+40	3462 510 000	-1.7	0.000 000	-0.001
	100 %	+50	3462 509 993	-7.9	0.000 000	-0.002
	Batt. Endpoint	+20	3462 509 992	-9.1	0.000 000	-0.003
3537.480	100 %	+20(Ref)	3537 479 995	0.0	0.000 000	0.000
	100 %	-30	3537 479 992	-2.9	0.000 000	-0.001
	100 %	-20	3537 479 998	3.7	0.000 000	0.001
	100 %	-10	3537 479 989	-6.1	0.000 000	-0.002
	100 %	0	3537 479 988	-6.3	0.000 000	-0.002
	100 %	+10	3537 479 984	-10.7	0.000 000	-0.003
	100 %	+30	3537 479 986	-8.6	0.000 000	-0.002
	100 %	+40	3537 479 986	-8.5	0.000 000	-0.002
	100 %	+50	3537 479 996	1.1	0.000 000	0.000
	Batt. Endpoint	+20	3537 479 996	1.3	0.000 000	0.000

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.860 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 999 989	0.0	0.000 000	0.000
	100 %	-30	3464 999 992	2.7	0.000 000	0.001
	100 %	-20	3464 999 982	-7.8	0.000 000	-0.002
	100 %	-10	3464 999 988	-1.6	0.000 000	0.000
	100 %	0	3464 999 986	-3.5	0.000 000	-0.001
	100 %	+10	3464 999 986	-3.0	0.000 000	-0.001
	100 %	+30	3464 999 983	-6.1	0.000 000	-0.002
	100 %	+40	3464 999 985	-4.7	0.000 000	-0.001
	100 %	+50	3464 999 984	-5.7	0.000 000	-0.002
	Batt. Endpoint	+20	3464 999 987	-2.5	0.000 000	-0.001
3534.990	100 %	+20(Ref)	3534 990 001	0.0	0.000 000	0.000
	100 %	-30	3534 989 997	-4.1	0.000 000	-0.001
	100 %	-20	3534 990 000	-1.0	0.000 000	0.000
	100 %	-10	3534 989 999	-1.9	0.000 000	-0.001
	100 %	0	3534 989 994	-6.4	0.000 000	-0.002
	100 %	+10	3534 989 999	-1.8	0.000 000	-0.001
	100 %	+30	3534 990 003	2.2	0.000 000	0.001
	100 %	+40	3534 989 998	-3.0	0.000 000	-0.001
	100 %	+50	3534 990 002	1.3	0.000 000	0.000
	Batt. Endpoint	+20	3534 989 999	-2.0	0.000 000	-0.001

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.860 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 009 996	0.0	0.000 000	0.000
	100 %	-30	3470 009 995	-1.1	0.000 000	0.000
	100 %	-20	3470 009 993	-3.1	0.000 000	-0.001
	100 %	-10	3470 009 994	-2.3	0.000 000	-0.001
	100 %	0	3470 009 993	-3.1	0.000 000	-0.001
	100 %	+10	3470 009 993	-2.7	0.000 000	-0.001
	100 %	+30	3470 009 990	-6.0	0.000 000	-0.002
	100 %	+40	3470 009 993	-3.0	0.000 000	-0.001
	100 %	+50	3470 009 993	-3.2	0.000 000	-0.001
	Batt. Endpoint	+20	3470 009 989	-7.5	0.000 000	-0.002
3529.980	100 %	+20(Ref)	3529 979 990	0.0	0.000 000	0.000
	100 %	-30	3529 979 986	-3.7	0.000 000	-0.001
	100 %	-20	3529 979 983	-7.3	0.000 000	-0.002
	100 %	-10	3529 979 985	-4.9	0.000 000	-0.001
	100 %	0	3529 979 985	-4.7	0.000 000	-0.001
	100 %	+10	3529 979 985	-5.4	0.000 000	-0.002
	100 %	+30	3529 979 981	-9.1	0.000 000	-0.003
	100 %	+40	3529 979 982	-7.8	0.000 000	-0.002
	100 %	+50	3529 979 989	-0.7	0.000 000	0.000
	Batt. Endpoint	+20	3529 979 983	-6.8	0.000 000	-0.002

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.860 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 020 000	0.0	0.000 000	0.000
	100 %	-30	3475 019 992	-7.7	0.000 000	-0.002
	100 %	-20	3475 019 999	-1.5	0.000 000	0.000
	100 %	-10	3475 019 995	-4.5	0.000 000	-0.001
	100 %	0	3475 019 995	-4.6	0.000 000	-0.001
	100 %	+10	3475 019 996	-4.1	0.000 000	-0.001
	100 %	+30	3475 019 995	-5.2	0.000 000	-0.001
	100 %	+40	3475 020 000	0.4	0.000 000	0.000
	100 %	+50	3475 019 994	-6.3	0.000 000	-0.002
	Batt. Endpoint	+20	3475 019 999	-1.4	0.000 000	0.000
3525.000	100 %	+20(Ref)	3525 000 004	0.0	0.000 000	0.000
	100 %	-30	3524 999 999	-5.4	0.000 000	-0.002
	100 %	-20	3524 999 997	-7.2	0.000 000	-0.002
	100 %	-10	3525 000 005	0.6	0.000 000	0.000
	100 %	0	3525 000 005	1.1	0.000 000	0.000
	100 %	+10	3525 000 001	-3.6	0.000 000	-0.001
	100 %	+30	3524 999 999	-4.9	0.000 000	-0.001
	100 %	+40	3525 000 001	-3.6	0.000 000	-0.001
	100 %	+50	3525 000 002	-2.3	0.000 000	-0.001
	Batt. Endpoint	+20	3525 000 008	3.5	0.000 000	0.001

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.860 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 999 995	0.0	0.000 000	0.000
	100 %	-30	3479 999 995	-0.3	0.000 000	0.000
	100 %	-20	3479 999 994	-1.7	0.000 000	0.000
	100 %	-10	3479 999 991	-4.1	0.000 000	-0.001
	100 %	0	3479 999 989	-6.5	0.000 000	-0.002
	100 %	+10	3479 999 988	-7.3	0.000 000	-0.002
	100 %	+30	3479 999 994	-1.2	0.000 000	0.000
	100 %	+40	3479 999 989	-6.6	0.000 000	-0.002
	100 %	+50	3479 999 992	-3.3	0.000 000	-0.001
	Batt. Endpoint	+20	3479 999 990	-5.6	0.000 000	-0.002
3519.990	100 %	+20(Ref)	3519 989 993	0.0	0.000 000	0.000
	100 %	-30	3519 989 987	-5.9	0.000 000	-0.002
	100 %	-20	3519 989 985	-7.3	0.000 000	-0.002
	100 %	-10	3519 989 983	-9.7	0.000 000	-0.003
	100 %	0	3519 989 993	0.5	0.000 000	0.000
	100 %	+10	3519 989 984	-8.6	0.000 000	-0.002
	100 %	+30	3519 989 987	-6.0	0.000 000	-0.002
	100 %	+40	3519 989 991	-1.3	0.000 000	0.000
	100 %	+50	3519 989 986	-6.6	0.000 000	-0.002
	Batt. Endpoint	+20	3519 989 985	-7.4	0.000 000	-0.002

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.860 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 009 998	0.0	0.000 000	0.000
	100 %	-30	3485 009 998	0.6	0.000 000	0.000
	100 %	-20	3485 009 990	-7.8	0.000 000	-0.002
	100 %	-10	3485 009 992	-5.1	0.000 000	-0.001
	100 %	0	3485 009 992	-5.8	0.000 000	-0.002
	100 %	+10	3485 009 994	-3.2	0.000 000	-0.001
	100 %	+30	3485 009 988	-10.0	0.000 000	-0.003
	100 %	+40	3485 009 995	-2.1	0.000 000	-0.001
	100 %	+50	3485 009 992	-5.8	0.000 000	-0.002
	Batt. Endpoint	+20	3485 010 000	2.1	0.000 000	0.001
3514.980	100 %	+20(Ref)	3514 979 999	0.0	0.000 000	0.000
	100 %	-30	3514 979 999	-0.4	0.000 000	0.000
	100 %	-20	3514 979 999	-0.4	0.000 000	0.000
	100 %	-10	3514 979 994	-5.2	0.000 000	-0.001
	100 %	0	3514 979 995	-3.8	0.000 000	-0.001
	100 %	+10	3514 979 997	-1.9	0.000 000	-0.001
	100 %	+30	3514 979 994	-5.5	0.000 000	-0.002
	100 %	+40	3514 979 989	-9.8	0.000 000	-0.003
	100 %	+50	3514 979 994	-4.8	0.000 000	-0.001
	Batt. Endpoint	+20	3514 979 996	-3.1	0.000 000	-0.001

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.860 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 019 998	0.0	0.000 000	0.000
	100 %	-30	3490 020 000	2.0	0.000 000	0.001
	100 %	-20	3490 019 998	-0.3	0.000 000	0.000
	100 %	-10	3490 019 996	-1.9	0.000 000	-0.001
	100 %	0	3490 019 994	-4.6	0.000 000	-0.001
	100 %	+10	3490 019 996	-2.6	0.000 000	-0.001
	100 %	+30	3490 019 991	-7.4	0.000 000	-0.002
	100 %	+40	3490 019 996	-2.3	0.000 000	-0.001
	100 %	+50	3490 019 994	-4.8	0.000 000	-0.001
	Batt. Endpoint	+20	3490 019 996	-2.1	0.000 000	-0.001
3510.000	100 %	+20(Ref)	3510 000 002	0.0	0.000 000	0.000
	100 %	-30	3509 999 994	-7.7	0.000 000	-0.002
	100 %	-20	3509 999 997	-4.9	0.000 000	-0.001
	100 %	-10	3509 999 994	-7.8	0.000 000	-0.002
	100 %	0	3510 000 003	1.3	0.000 000	0.000
	100 %	+10	3510 000 003	1.3	0.000 000	0.000
	100 %	+30	3510 000 001	-0.2	0.000 000	0.000
	100 %	+40	3509 999 997	-4.4	0.000 000	-0.001
	100 %	+50	3509 999 998	-3.9	0.000 000	-0.001
	Batt. Endpoint	+20	3509 999 998	-3.7	0.000 000	-0.001

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 3.860 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 999 987	0.0	0.000 000	0.000
	100 %	-30	3494 999 981	-5.7	0.000 000	-0.002
	100 %	-20	3494 999 978	-8.9	0.000 000	-0.003
	100 %	-10	3494 999 983	-4.5	0.000 000	-0.001
	100 %	0	3494 999 980	-7.0	0.000 000	-0.002
	100 %	+10	3494 999 976	-11.4	0.000 000	-0.003
	100 %	+30	3494 999 980	-7.6	0.000 000	-0.002
	100 %	+40	3494 999 982	-5.4	0.000 000	-0.002
	100 %	+50	3494 999 978	-9.5	0.000 000	-0.003
	Batt. Endpoint	+20	3494 999 985	-1.9	0.000 000	-0.001
3504.990	100 %	+20(Ref)	3504 989 995	0.0	0.000 000	0.000
	100 %	-30	3504 989 988	-6.2	0.000 000	-0.002
	100 %	-20	3504 989 991	-3.4	0.000 000	-0.001
	100 %	-10	3504 989 993	-1.1	0.000 000	0.000
	100 %	0	3504 989 990	-4.9	0.000 000	-0.001
	100 %	+10	3504 989 993	-1.1	0.000 000	0.000
	100 %	+30	3504 989 994	-0.8	0.000 000	0.000
	100 %	+40	3504 989 989	-5.4	0.000 000	-0.002
	100 %	+50	3504 989 994	-0.3	0.000 000	0.000
	Batt. Endpoint	+20	3504 989 992	-2.5	0.000 000	-0.001

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.860 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 009 998	0.0	0.000 000	0.000
	100 %	-30	3500 009 988	-10.2	0.000 000	-0.003
	100 %	-20	3500 009 985	-12.6	0.000 000	-0.004
	100 %	-10	3500 009 985	-12.6	0.000 000	-0.004
	100 %	0	3500 009 993	-5.3	0.000 000	-0.002
	100 %	+10	3500 009 995	-3.6	0.000 000	-0.001
	100 %	+30	3500 009 994	-4.4	0.000 000	-0.001
	100 %	+40	3500 009 993	-4.9	0.000 000	-0.001
	100 %	+50	3500 009 996	-1.7	0.000 000	0.000
	Batt. Endpoint	+20	3500 009 990	-8.3	0.000 000	-0.002

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	-20.68	17.91	12.08	3.08	H	< 1.00	0.491	26.91	1	1
		QPSK	-20.71	17.88	12.08	3.08	H		0.488	26.88		
		16-QAM	-21.73	16.86	12.08	3.08	H		0.386	25.86		
		64-QAM	-23.12	15.47	12.08	3.08	H		0.280	24.47		
		256-QAM	-25.27	13.32	12.08	3.08	H		0.171	22.32		
3840.00		PI/2 BPSK	-21.66	18.29	11.58	3.20	H		0.465	26.67	1	22
		QPSK	-21.67	18.28	11.58	3.20	H		0.463	26.66		
		16-QAM	-22.60	17.35	11.58	3.20	H		0.374	25.73		
		64-QAM	-24.17	15.78	11.58	3.20	H		0.261	24.16		
		256-QAM	-26.33	13.62	11.58	3.20	H		0.159	22.00		
3975.00		PI/2 BPSK	-23.96	15.95	11.70	3.25	H	0.275	24.40	1	12	
		QPSK	-24.04	15.87	11.70	3.25	H	0.270	24.32			
		16-QAM	-25.12	14.79	11.70	3.25	H	0.211	23.24			
		64-QAM	-26.50	13.41	11.70	3.25	H	0.154	21.86			
		256-QAM	-28.56	11.35	11.70	3.25	H	0.096	19.80			

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
3707.51	Sub6 n77(78)/ 15 MHz [30 kHz]	PI/2 BPSK	-20.84	17.66	12.08	3.08	H		0.463	26.66	1	19
		QPSK	-20.89	17.61	12.08	3.08	H		0.458	26.61		
		16-QAM	-22.08	16.42	12.08	3.08	H		0.348	25.42		
		64-QAM	-23.23	15.27	12.08	3.08	H		0.267	24.27		
		256-QAM	-25.39	13.11	12.08	3.08	H		0.163	22.11		
3840.00		PI/2 BPSK	-21.47	18.48	11.58	3.20	H	< 1.00	0.485	26.86	1	36
		QPSK	-21.62	18.33	11.58	3.20	H		0.469	26.71		
		16-QAM	-22.68	17.27	11.58	3.20	H		0.367	25.65		
		64-QAM	-24.22	15.73	11.58	3.20	H		0.258	24.11		
		256-QAM	-26.26	13.69	11.58	3.20	H		0.161	22.07		
3972.48		PI/2 BPSK	-23.94	15.92	11.69	3.25	H		0.273	24.36	1	36
		QPSK	-24.04	15.82	11.69	3.25	H		0.267	24.26		
		16-QAM	-25.04	14.82	11.69	3.25	H		0.212	23.26		
		64-QAM	-26.55	13.31	11.69	3.25	H		0.150	21.75		
		256-QAM	-28.74	11.12	11.69	3.25	H		0.090	19.56		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3710.01		PI/2 BPSK	-20.70	17.80	12.08	3.08	H	< 1.00	0.479	26.80	1	1
		QPSK	-20.71	17.79	12.08	3.08	H		0.478	26.79		
		16-QAM	-21.67	16.83	12.08	3.08	H		0.383	25.83		
		64-QAM	-23.21	15.29	12.08	3.08	H		0.269	24.29		
		256-QAM	-25.30	13.20	12.08	3.08	H		0.166	22.20		
3840.00	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-21.66	18.29	11.58	3.20	H	< 1.00	0.465	26.67	1	25
		QPSK	-21.79	18.16	11.58	3.20	H		0.451	26.54		
		16-QAM	-22.40	17.55	11.58	3.20	H		0.392	25.93		
		64-QAM	-24.23	15.72	11.58	3.20	H		0.257	24.10		
		256-QAM	-26.17	13.78	11.58	3.20	H		0.164	22.16		
3969.99		PI/2 BPSK	-23.88	15.98	11.69	3.25	H	< 1.00	0.277	24.42	1	49
		QPSK	-24.02	15.84	11.69	3.25	H		0.268	24.28		
		16-QAM	-25.01	14.85	11.69	3.25	H		0.213	23.29		
		64-QAM	-26.37	13.49	11.69	3.25	H		0.156	21.93		
		256-QAM	-28.50	11.36	11.69	3.25	H		0.096	19.80		

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
3712.50	Sub6 n77(78)/ 25 MHz [30 kHz]	PI/2 BPSK	-20.72	17.85	12.08	3.11	H	< 1.00	0.481	26.82	1	32
		QPSK	-20.86	17.71	12.08	3.11	H		0.466	26.68		
		16-QAM	-21.99	16.58	12.08	3.11	H		0.359	25.55		
		64-QAM	-23.37	15.20	12.08	3.11	H		0.261	24.17		
		256-QAM	-25.17	13.40	12.08	3.11	H		0.173	22.37		
3840.00		PI/2 BPSK	-21.36	18.59	11.58	3.20	H		0.498	26.97	1	1
		QPSK	-21.42	18.53	11.58	3.20	H		0.491	26.91		
		16-QAM	-22.49	17.46	11.58	3.20	H		0.384	25.84		
		64-QAM	-24.02	15.93	11.58	3.20	H		0.270	24.31		
		256-QAM	-26.03	13.92	11.58	3.20	H		0.170	22.30		
3967.50		PI/2 BPSK	-23.97	15.89	11.69	3.25	H		0.271	24.33	1	1
		QPSK	-24.02	15.84	11.69	3.25	H		0.268	24.28		
		16-QAM	-25.13	14.73	11.69	3.25	H		0.208	23.17		
		64-QAM	-26.56	13.30	11.69	3.25	H		0.149	21.74		
		256-QAM	-28.48	11.38	11.69	3.25	H		0.096	19.82		

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	-20.61	17.96	12.08	3.11	H	< 1.00	0.493	26.93	1	1
		QPSK	-20.63	17.94	12.08	3.11	H		0.491	26.91		
		16-QAM	-21.57	17.00	12.08	3.11	H		0.395	25.97		
		64-QAM	-23.30	15.27	12.08	3.11	H		0.266	24.24		
		256-QAM	-25.28	13.29	12.08	3.11	H		0.168	22.26		
3840.00	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-21.42	18.53	11.58	3.20	H	< 1.00	0.491	26.91	1	39
		QPSK	-21.51	18.44	11.58	3.20	H		0.481	26.82		
		16-QAM	-22.43	17.52	11.58	3.20	H		0.389	25.90		
		64-QAM	-24.07	15.88	11.58	3.20	H		0.267	24.26		
		256-QAM	-26.18	13.77	11.58	3.20	H		0.164	22.15		
3964.98		PI/2 BPSK	-23.87	16.06	11.67	3.24	H	< 1.00	0.281	24.49	1	1
		QPSK	-23.92	16.01	11.67	3.24	H		0.278	24.44		
		16-QAM	-24.83	15.10	11.67	3.24	H		0.225	23.53		
		64-QAM	-26.36	13.57	11.67	3.24	H		0.159	22.00		
		256-QAM	-28.54	11.39	11.67	3.24	H		0.096	19.82		

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	-20.55	18.08	12.07	3.13	H	< 1.00	0.504	27.02	1	1
		QPSK	-20.66	17.97	12.07	3.13	H		0.491	26.91		
		16-QAM	-21.78	16.85	12.07	3.13	H		0.379	25.79		
		64-QAM	-23.37	15.26	12.07	3.13	H		0.263	24.20		
		256-QAM	-25.12	13.51	12.07	3.13	H		0.176	22.45		
3840.00		PI/2 BPSK	-21.54	18.41	11.58	3.20	H		0.478	26.79	1	1
		QPSK	-21.56	18.39	11.58	3.20	H		0.475	26.77		
		16-QAM	-22.60	17.35	11.58	3.20	H		0.374	25.73		
		64-QAM	-24.18	15.77	11.58	3.20	H		0.260	24.15		
		256-QAM	-26.00	13.95	11.58	3.20	H		0.171	22.33		
3960.00		PI/2 BPSK	-23.18	16.82	11.65	3.24	H		0.333	25.23	1	1
		QPSK	-23.26	16.74	11.65	3.24	H		0.327	25.15		
		16-QAM	-24.30	15.70	11.65	3.24	H		0.258	24.11		
		64-QAM	-25.62	14.38	11.65	3.24	H		0.190	22.79		
		256-QAM	-27.84	12.16	11.65	3.24	H		0.114	20.57		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3725.10		PI/2 BPSK	-20.62	18.14	12.06	3.15	H	< 1.00	0.507	27.05	1	1
		QPSK	-20.70	18.06	12.06	3.15	H		0.498	26.97		
		16-QAM	-21.85	16.91	12.06	3.15	H		0.382	25.82		
		64-QAM	-23.11	15.65	12.06	3.15	H		0.286	24.56		
		256-QAM	-25.23	13.53	12.06	3.15	H		0.175	22.44		
3840.00	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-21.35	18.60	11.58	3.20	H	< 1.00	0.499	26.98	1	1
		QPSK	-21.39	18.56	11.58	3.20	H		0.494	26.94		
		16-QAM	-22.32	17.63	11.58	3.20	H		0.399	26.01		
		64-QAM	-23.83	16.12	11.58	3.20	H		0.282	24.50		
		256-QAM	-26.00	13.95	11.58	3.20	H		0.171	22.33		
3954.99		PI/2 BPSK	-22.92	17.11	11.63	3.23	H	< 1.00	0.356	25.51	1	1
		QPSK	-22.93	17.10	11.63	3.23	H		0.355	25.50		
		16-QAM	-23.88	16.15	11.63	3.23	H		0.285	24.55		
		64-QAM	-25.35	14.68	11.63	3.23	H		0.203	23.08		
		256-QAM	-27.57	12.46	11.63	3.23	H		0.122	20.86		

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
3730.02		PI/2 BPSK	-20.59	18.31	12.04	3.17	H	< 1.00	0.522	27.18	1	1
		QPSK	-20.63	18.27	12.04	3.17	H		0.518	27.14		
		16-QAM	-21.66	17.24	12.04	3.17	H		0.408	26.11		
		64-QAM	-23.32	15.58	12.04	3.17	H		0.279	24.45		
		256-QAM	-25.28	13.62	12.04	3.17	H		0.177	22.49		
3840.00	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-21.41	18.54	11.58	3.20	H	< 1.00	0.492	26.92	1	160
		QPSK	-21.43	18.52	11.58	3.20	H		0.490	26.90		
		16-QAM	-22.35	17.60	11.58	3.20	H		0.396	25.98		
		64-QAM	-23.89	16.06	11.58	3.20	H		0.278	24.44		
		256-QAM	-25.77	14.18	11.58	3.20	H		0.180	22.56		
3949.98		PI/2 BPSK	-22.80	17.25	11.61	3.22	H	< 1.00	0.366	25.64	1	1
		QPSK	-22.87	17.18	11.61	3.22	H		0.361	25.57		
		16-QAM	-23.84	16.21	11.61	3.22	H		0.288	24.60		
		64-QAM	-25.43	14.62	11.61	3.22	H		0.200	23.01		
		256-QAM	-27.45	12.60	11.61	3.22	H		0.126	20.99		

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
3735.00	Sub6 n77(78)/ 70 MHz [30 kHz]	PI/2 BPSK	-20.54	18.48	12.02	3.18	H	< 1.00	0.540	27.32	1	1
		QPSK	-20.63	18.39	12.02	3.18	H		0.528	27.23		
		16-QAM	-21.88	17.14	12.02	3.18	H		0.396	25.98		
		64-QAM	-23.15	15.87	12.02	3.18	H		0.296	24.71		
		256-QAM	-25.09	13.93	12.02	3.18	H		0.189	22.77		
3840.00		PI/2 BPSK	-21.06	18.89	11.58	3.20	H		0.533	27.27	1	1
		QPSK	-21.13	18.82	11.58	3.20	H		0.525	27.20		
		16-QAM	-22.11	17.84	11.58	3.20	H		0.419	26.22		
		64-QAM	-23.47	16.48	11.58	3.20	H		0.306	24.86		
		256-QAM	-25.53	14.42	11.58	3.20	H		0.191	22.80		
3945.00		PI/2 BPSK	-22.74	17.29	11.60	3.23	H		0.368	25.66	1	1
		QPSK	-22.75	17.28	11.60	3.23	H		0.367	25.65		
		16-QAM	-23.82	16.21	11.60	3.23	H		0.287	24.58		
		64-QAM	-25.25	14.78	11.60	3.23	H		0.207	23.15		
		256-QAM	-27.18	12.85	11.60	3.23	H		0.132	21.22		

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	-20.60	18.55	12.00	3.19	H	< 1.00	0.545	27.36	1	1
		QPSK	-20.62	18.53	12.00	3.19	H		0.542	27.34		
		16-QAM	-21.63	17.52	12.00	3.19	H		0.430	26.33		
		64-QAM	-23.33	15.82	12.00	3.19	H		0.290	24.63		
		256-QAM	-25.03	14.12	12.00	3.19	H		0.196	22.93		
3840.00	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-20.91	19.04	11.58	3.20	H	< 1.00	0.552	27.42	1	1
		QPSK	-20.94	19.01	11.58	3.20	H		0.548	27.39		
		16-QAM	-22.18	17.77	11.58	3.20	H		0.412	26.15		
		64-QAM	-23.40	16.55	11.58	3.20	H		0.311	24.93		
		256-QAM	-25.62	14.33	11.58	3.20	H		0.187	22.71		
3939.99		PI/2 BPSK	-22.24	17.76	11.58	3.23	H	< 1.00	0.408	26.11	1	1
		QPSK	-22.28	17.72	11.58	3.23	H		0.405	26.07		
		16-QAM	-23.17	16.83	11.58	3.23	H		0.330	25.18		
		64-QAM	-24.88	15.12	11.58	3.23	H		0.222	23.47		
		256-QAM	-26.75	13.25	11.58	3.23	H		0.145	21.60		

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	-20.57	18.60	11.97	3.18	H	< 1.00	0.548	27.39	1	1
		QPSK	-20.59	18.58	11.97	3.18	H		0.546	27.37		
		16-QAM	-21.56	17.61	11.97	3.18	H		0.437	26.40		
		64-QAM	-23.03	16.14	11.97	3.18	H		0.311	24.93		
		256-QAM	-24.95	14.22	11.97	3.18	H		0.200	23.01		
3840.00	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-20.75	19.20	11.58	3.20	H	< 1.00	0.573	27.58	1	1
		QPSK	-20.87	19.08	11.58	3.20	H		0.557	27.46		
		16-QAM	-22.03	17.92	11.58	3.20	H		0.427	26.30		
		64-QAM	-23.35	16.60	11.58	3.20	H		0.315	24.98		
		256-QAM	-25.39	14.56	11.58	3.20	H		0.197	22.94		
3934.98		PI/2 BPSK	-21.54	18.41	11.56	3.24	H	< 1.00	0.471	26.73	1	1
		QPSK	-21.65	18.30	11.56	3.24	H		0.459	26.62		
		16-QAM	-22.47	17.48	11.56	3.24	H		0.380	25.80		
		64-QAM	-24.00	15.95	11.56	3.24	H		0.267	24.27		
		256-QAM	-25.92	14.03	11.56	3.24	H		0.172	22.35		

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	-20.44	18.75	11.95	3.17	H	< 1.00	0.566	27.53	1	1
		QPSK	-20.53	18.66	11.95	3.17	H		0.555	27.44		
		16-QAM	-21.55	17.64	11.95	3.17	H		0.439	26.42		
		64-QAM	-22.80	16.39	11.95	3.17	H		0.329	25.17		
		256-QAM	-25.08	14.11	11.95	3.17	H		0.195	22.89		
3840.00	Sub6 n77(78)/ 100 MHz [30 kHz]	PI/2 BPSK	-20.90	19.05	11.58	3.20	H	< 1.00	0.553	27.43	1	1
		QPSK	-20.98	18.97	11.58	3.20	H		0.543	27.35		
		16-QAM	-21.85	18.10	11.58	3.20	H		0.445	26.48		
		64-QAM	-23.43	16.52	11.58	3.20	H		0.309	24.90		
		256-QAM	-25.39	14.56	11.58	3.20	H		0.197	22.94		
3930.00		PI/2 BPSK	-21.16	18.74	11.54	3.26	H	< 1.00	0.504	27.02	1	1
		QPSK	-21.30	18.60	11.54	3.26	H		0.488	26.88		
		16-QAM	-22.17	17.73	11.54	3.26	H		0.399	26.01		
		64-QAM	-23.50	16.40	11.54	3.26	H		0.294	24.68		
		256-QAM	-25.72	14.18	11.54	3.26	H		0.176	22.46		

9.2 RADIATED SPURIOUS EMISSIONS

■ NR Band:	<u>N77(78)</u>
■ Bandwidth:	<u>90 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
649668 (3745.02)	7 490.04	-61.32	11.48	-53.85	4.61	V	-46.98	-13.00	1	1
	11 235.06	-64.65	12.06	-53.84	5.82	V	-47.60	-13.00		
	14 980.08	-57.63	14.24	-51.23	6.79	V	-43.78	-13.00		
656000 (3840.00)	7 680.00	-63.78	11.47	-56.47	4.70	V	-49.70	-13.00	1	1
	11 520.00	-64.97	12.34	-53.66	5.87	V	-47.19	-13.00		
	15 360.00	-59.31	15.37	-52.73	6.88	V	-44.24	-13.00		
662332 (3934.98)	7 869.96	-64.89	11.06	-57.07	4.75	V	-50.76	-13.00	1	1
	11 804.94	-64.45	12.66	-54.52	5.97	V	-47.83	-13.00		
	15 739.92	-60.44	16.08	-53.33	6.93	V	-44.18	-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	4.46
			QPSK			5.71
			16-QAM			6.39
			64-QAM			6.56
			256-QAM			6.55
	15 MHz		BPSK			4.50
			QPSK			5.66
			16-QAM			6.43
			64-QAM			6.68
			256-QAM			6.55
	20 MHz		BPSK			4.55
			QPSK			5.75
			16-QAM			6.45
			64-QAM			6.61
			256-QAM			6.55
	25 MHz		BPSK			4.47
			QPSK			5.75
			16-QAM			6.49
			64-QAM			6.50
			256-QAM			6.58
	30 MHz		BPSK			4.52
			QPSK			5.80
			16-QAM			6.53
			64-QAM			6.78
			256-QAM			6.60
	40 MHz		BPSK			5.18
			QPSK			5.73
			16-QAM			6.41
			64-QAM			6.59
			256-QAM			6.55
	50 MHz		BPSK			4.46
			QPSK			5.74
			16-QAM			6.52
			64-QAM			6.59
			256-QAM			6.57
	60 MHz		BPSK			4.76
			QPSK			5.72
			16-QAM			6.50
			64-QAM			6.61
			256-QAM			6.63
	70 MHz		BPSK			4.91
			QPSK			5.73
			16-QAM			6.47
			64-QAM			6.54
			256-QAM			6.67
	80 MHz		BPSK			4.48
			QPSK			5.76

			16-QAM			6.39
			64-QAM			6.53
			256-QAM			6.55
	90 MHz		BPSK			4.46
			QPSK			5.75
			16-QAM			6.47
			64-QAM			6.53
			256-QAM			6.54
	100 MHz		BPSK			4.88
			QPSK			5.70
			16-QAM			6.39
			64-QAM			6.51
			256-QAM			6.63

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	3500.01	BPSK	Full RB	0	8.6472
			QPSK			8.6245
			16-QAM			8.6476
			64-QAM			8.6723
			256-QAM			8.7095
	15 MHz		BPSK			12.952
			QPSK			12.967
			16-QAM			12.965
			64-QAM			12.911
			256-QAM			12.973
	20 MHz		BPSK			17.983
			QPSK			17.987
			16-QAM			17.950
			64-QAM			17.974
			256-QAM			17.925
	25 MHz		BPSK			22.999
			QPSK			23.003
			16-QAM			22.942
			64-QAM			22.957
			256-QAM			22.944
	30 MHz		BPSK			27.067
			QPSK			26.905
			16-QAM			26.969
			64-QAM			26.949
			256-QAM			27.005
	40 MHz		BPSK			35.973
			QPSK			35.925
			16-QAM			35.902
			64-QAM			35.893
			256-QAM			35.849
	50 MHz		BPSK			45.900
			QPSK			45.955
			16-QAM			46.009
			64-QAM			45.830
			256-QAM			45.999
	60 MHz		BPSK			58.104
			QPSK			58.185
			16-QAM			58.064
			64-QAM			58.083
			256-QAM			58.033
	70 MHz		BPSK			64.812
			QPSK			64.596
			16-QAM			64.528
			64-QAM			64.655
			256-QAM			64.678

	80 MHz		BPSK			77.514
			QPSK			77.684
			16-QAM			77.344
			64-QAM			77.489
			256-QAM			77.343
	90 MHz		BPSK			87.084
			QPSK			87.127
			16-QAM			87.187
			64-QAM			87.159
			256-QAM			86.955
	100 MHz		BPSK			96.749
			QPSK			96.800
			16-QAM			97.025
			64-QAM			96.823
			256-QAM			97.067

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	7.3978	30.815	-62.131	-31.316	-13.00
		3840.000	8.1256	30.815	-61.322	-30.507	
		3975.000	7.9462	30.815	-62.205	-31.390	
	15	3707.520	4.9552	30.200	-61.080	-30.880	
		3840.000	4.6960	30.200	-62.459	-32.259	
		3972.480	9.3918	30.815	-62.033	-31.218	
	20	3710.010	4.9751	30.200	-61.732	-31.532	
		3840.000	5.1646	30.815	-60.637	-29.822	
		3969.990	7.9262	30.815	-61.199	-30.384	
	25	3712.500	4.9652	30.200	-61.342	-31.142	
		3840.000	5.1646	30.815	-61.470	-30.655	
		3967.500	4.9053	30.200	-60.354	-30.154	
	30	3715.020	7.4078	30.815	-61.498	-30.683	
		3840.000	4.9352	30.200	-61.419	-31.219	
		3964.980	7.9063	30.815	-60.626	-29.811	
	40	3720.000	8.4148	30.815	-60.885	-30.070	
		3840.000	9.1625	30.815	-60.761	-29.946	
		3960.000	5.2343	30.815	-62.417	-31.602	
	50	3725.010	7.4078	30.815	-62.333	-31.518	
		3840.000	7.6371	30.815	-61.537	-30.722	
		3954.990	4.9153	30.200	-60.421	-30.221	
	60	3730.020	7.3978	30.815	-61.156	-30.341	
		3840.000	7.6271	30.815	-61.032	-30.217	
		3949.980	8.3151	30.815	-60.461	-29.646	
	70	3735.000	7.3978	30.815	-61.869	-31.054	
		3840.000	6.0120	30.815	-61.722	-30.907	
		3945.000	8.2852	30.815	-62.075	-31.260	
	80	3740.010	5.2044	30.815	-61.564	-30.749	
		3840.000	7.6072	30.815	-61.636	-30.821	
		3939.990	4.9153	30.200	-62.494	-32.294	
	90	3745.020	7.3978	30.815	-60.920	-30.105	
		3840.000	7.5972	30.815	-61.417	-30.602	
		3934.980	4.9851	30.200	-61.244	-31.044	
	100	3750.000	7.3978	30.815	-60.901	-30.086	
		3840.000	4.9253	30.200	-61.617	-31.417	
		3930.000	4.5364	30.200	-61.356	-31.156	

Note:

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

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 %): 3.860 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)	3705 000 002	0.0	0.000 000	0.000
	100 %	-30	3705 000 005	2.4	0.000 000	0.001
	100 %	-20	3704 999 993	-9.6	0.000 000	-0.003
	100 %	-10	3705 000 002	-0.4	0.000 000	0.000
	100 %	0	3704 999 996	-6.8	0.000 000	-0.002
	100 %	+10	3704 999 997	-5.7	0.000 000	-0.002
	100 %	+30	3705 000 000	-2.6	0.000 000	-0.001
	100 %	+40	3705 000 002	0.1	0.000 000	0.000
	100 %	+50	3705 000 000	-2.3	0.000 000	-0.001
	Batt. Endpoint	+20	3704 999 999	-3.7	0.000 000	-0.001
3975.000	100 %	+20(Ref)	3974 999 998	0.0	0.000 000	0.000
	100 %	-30	3974 999 997	-1.6	0.000 000	0.000
	100 %	-20	3974 999 995	-3.5	0.000 000	-0.001
	100 %	-10	3975 000 002	3.8	0.000 000	0.001
	100 %	0	3974 999 995	-2.7	0.000 000	-0.001
	100 %	+10	3974 999 991	-7.3	0.000 000	-0.002
	100 %	+30	3974 999 995	-3.4	0.000 000	-0.001
	100 %	+40	3974 999 996	-2.4	0.000 000	-0.001
	100 %	+50	3974 999 995	-2.9	0.000 000	-0.001
	Batt. Endpoint	+20	3974 999 997	-1.4	0.000 000	0.000

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.860 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 519 992	0.0	0.000 000	0.000
	100 %	-30	3707 519 986	-5.7	0.000 000	-0.002
	100 %	-20	3707 519 993	1.0	0.000 000	0.000
	100 %	-10	3707 519 987	-5.0	0.000 000	-0.001
	100 %	0	3707 519 994	2.0	0.000 000	0.001
	100 %	+10	3707 519 984	-8.4	0.000 000	-0.002
	100 %	+30	3707 519 991	-1.5	0.000 000	0.000
	100 %	+40	3707 519 992	-0.3	0.000 000	0.000
	100 %	+50	3707 519 985	-7.4	0.000 000	-0.002
	Batt. Endpoint	+20	3707 519 987	-5.2	0.000 000	-0.001
3972.480	100 %	+20(Ref)	3972 479 999	0.0	0.000 000	0.000
	100 %	-30	3972 479 990	-9.7	0.000 000	-0.002
	100 %	-20	3972 479 996	-3.8	0.000 000	-0.001
	100 %	-10	3972 479 994	-5.7	0.000 000	-0.001
	100 %	0	3972 479 991	-8.8	0.000 000	-0.002
	100 %	+10	3972 479 995	-4.7	0.000 000	-0.001
	100 %	+30	3972 479 996	-3.6	0.000 000	-0.001
	100 %	+40	3972 479 993	-6.4	0.000 000	-0.002
	100 %	+50	3972 479 994	-5.0	0.000 000	-0.001
	Batt. Endpoint	+20	3972 479 998	-1.4	0.000 000	0.000

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.860 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 009 998	0.0	0.000 000	0.000
	100 %	-30	3710 009 993	-4.0	0.000 000	-0.001
	100 %	-20	3710 009 987	-10.3	0.000 000	-0.003
	100 %	-10	3710 009 996	-1.8	0.000 000	0.000
	100 %	0	3710 009 997	-0.9	0.000 000	0.000
	100 %	+10	3710 009 993	-5.0	0.000 000	-0.001
	100 %	+30	3710 009 998	0.0	0.000 000	0.000
	100 %	+40	3710 009 995	-2.3	0.000 000	-0.001
	100 %	+50	3710 009 989	-8.9	0.000 000	-0.002
	Batt. Endpoint	+20	3710 009 995	-2.9	0.000 000	-0.001
3969.990	100 %	+20(Ref)	3969 990 001	0.0	0.000 000	0.000
	100 %	-30	3969 989 999	-2.7	0.000 000	-0.001
	100 %	-20	3969 990 004	2.5	0.000 000	0.001
	100 %	-10	3969 990 001	-0.5	0.000 000	0.000
	100 %	0	3969 989 996	-5.8	0.000 000	-0.001
	100 %	+10	3969 989 998	-3.3	0.000 000	-0.001
	100 %	+30	3969 990 005	3.9	0.000 000	0.001
	100 %	+40	3969 989 994	-7.5	0.000 000	-0.002
	100 %	+50	3969 989 987	-14.0	0.000 000	-0.004
	Batt. Endpoint	+20	3969 989 996	-5.8	0.000 000	-0.001

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.860 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 499 988	0.0	0.000 000	0.000
	100 %	-30	3712 499 983	-4.9	0.000 000	-0.001
	100 %	-20	3712 499 982	-6.7	0.000 000	-0.002
	100 %	-10	3712 499 989	0.2	0.000 000	0.000
	100 %	0	3712 499 982	-6.3	0.000 000	-0.002
	100 %	+10	3712 499 983	-5.1	0.000 000	-0.001
	100 %	+30	3712 499 984	-4.7	0.000 000	-0.001
	100 %	+40	3712 499 981	-7.6	0.000 000	-0.002
	100 %	+50	3712 499 982	-6.7	0.000 000	-0.002
	Batt. Endpoint	+20	3712 499 985	-3.1	0.000 000	-0.001
3967.500	100 %	+20(Ref)	3967 500 001	0.0	0.000 000	0.000
	100 %	-30	3967 500 002	1.5	0.000 000	0.000
	100 %	-20	3967 499 999	-1.8	0.000 000	0.000
	100 %	-10	3967 500 000	-0.4	0.000 000	0.000
	100 %	0	3967 500 000	-0.8	0.000 000	0.000
	100 %	+10	3967 499 997	-3.8	0.000 000	-0.001
	100 %	+30	3967 500 000	-1.1	0.000 000	0.000
	100 %	+40	3967 500 006	5.4	0.000 000	0.001
	100 %	+50	3967 499 992	-8.5	0.000 000	-0.002
	Batt. Endpoint	+20	3967 500 002	1.4	0.000 000	0.000

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.860 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 019 996	0.0	0.000 000	0.000
	100 %	-30	3715 019 994	-1.5	0.000 000	0.000
	100 %	-20	3715 019 990	-5.6	0.000 000	-0.001
	100 %	-10	3715 019 989	-7.1	0.000 000	-0.002
	100 %	0	3715 019 993	-2.4	0.000 000	-0.001
	100 %	+10	3715 019 993	-2.8	0.000 000	-0.001
	100 %	+30	3715 019 993	-2.4	0.000 000	-0.001
	100 %	+40	3715 019 993	-2.5	0.000 000	-0.001
	100 %	+50	3715 019 988	-8.0	0.000 000	-0.002
	Batt. Endpoint	+20	3715 019 997	1.0	0.000 000	0.000
3964.980	100 %	+20(Ref)	3964 979 995	0.0	0.000 000	0.000
	100 %	-30	3964 979 991	-4.8	0.000 000	-0.001
	100 %	-20	3964 979 990	-5.4	0.000 000	-0.001
	100 %	-10	3964 979 983	-12.4	0.000 000	-0.003
	100 %	0	3964 979 996	0.6	0.000 000	0.000
	100 %	+10	3964 979 995	-0.6	0.000 000	0.000
	100 %	+30	3964 979 999	3.7	0.000 000	0.001
	100 %	+40	3964 979 988	-7.1	0.000 000	-0.002
	100 %	+50	3964 979 989	-6.8	0.000 000	-0.002
	Batt. Endpoint	+20	3964 979 992	-3.6	0.000 000	-0.001

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.860 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 999 992	0.0	0.000 000	0.000
	100 %	-30	3719 999 994	1.1	0.000 000	0.000
	100 %	-20	3719 999 988	-4.1	0.000 000	-0.001
	100 %	-10	3719 999 987	-5.3	0.000 000	-0.001
	100 %	0	3719 999 989	-3.8	0.000 000	-0.001
	100 %	+10	3719 999 980	-12.8	0.000 000	-0.003
	100 %	+30	3719 999 989	-3.9	0.000 000	-0.001
	100 %	+40	3719 999 985	-7.0	0.000 000	-0.002
	100 %	+50	3719 999 988	-4.1	0.000 000	-0.001
	Batt. Endpoint	+20	3719 999 986	-6.4	0.000 000	-0.002
3960.000	100 %	+20(Ref)	3959 999 998	0.0	0.000 000	0.000
	100 %	-30	3959 999 992	-6.6	0.000 000	-0.002
	100 %	-20	3959 999 996	-2.6	0.000 000	-0.001
	100 %	-10	3959 999 993	-4.8	0.000 000	-0.001
	100 %	0	3959 999 992	-6.0	0.000 000	-0.002
	100 %	+10	3959 999 987	-11.0	0.000 000	-0.003
	100 %	+30	3959 999 996	-1.7	0.000 000	0.000
	100 %	+40	3959 999 992	-6.1	0.000 000	-0.002
	100 %	+50	3959 999 995	-3.1	0.000 000	-0.001
	Batt. Endpoint	+20	3959 999 996	-2.7	0.000 000	-0.001

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.860 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 010 003	0.0	0.000 000	0.000
	100 %	-30	3725 009 999	-4.2	0.000 000	-0.001
	100 %	-20	3725 010 002	-1.4	0.000 000	0.000
	100 %	-10	3725 009 999	-4.4	0.000 000	-0.001
	100 %	0	3725 010 000	-3.3	0.000 000	-0.001
	100 %	+10	3725 009 991	-11.7	0.000 000	-0.003
	100 %	+30	3725 010 002	-1.2	0.000 000	0.000
	100 %	+40	3725 010 004	0.7	0.000 000	0.000
	100 %	+50	3725 009 999	-3.7	0.000 000	-0.001
	Batt. Endpoint	+20	3725 010 004	1.1	0.000 000	0.000
3954.990	100 %	+20(Ref)	3954 989 996	0.0	0.000 000	0.000
	100 %	-30	3954 989 990	-5.5	0.000 000	-0.001
	100 %	-20	3954 989 991	-5.2	0.000 000	-0.001
	100 %	-10	3954 989 988	-7.9	0.000 000	-0.002
	100 %	0	3954 989 991	-4.5	0.000 000	-0.001
	100 %	+10	3954 989 995	-0.8	0.000 000	0.000
	100 %	+30	3954 989 993	-3.1	0.000 000	-0.001
	100 %	+40	3954 989 988	-8.2	0.000 000	-0.002
	100 %	+50	3954 989 988	-8.2	0.000 000	-0.002
	Batt. Endpoint	+20	3954 989 987	-8.7	0.000 000	-0.002

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.860 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 019 995	0.0	0.000 000	0.000
	100 %	-30	3730 019 989	-5.6	0.000 000	-0.002
	100 %	-20	3730 019 993	-2.1	0.000 000	-0.001
	100 %	-10	3730 019 986	-9.3	0.000 000	-0.003
	100 %	0	3730 019 994	-0.6	0.000 000	0.000
	100 %	+10	3730 019 992	-2.8	0.000 000	-0.001
	100 %	+30	3730 019 987	-8.1	0.000 000	-0.002
	100 %	+40	3730 019 996	1.0	0.000 000	0.000
	100 %	+50	3730 019 996	0.9	0.000 000	0.000
	Batt. Endpoint	+20	3730 019 988	-7.1	0.000 000	-0.002
3949.980	100 %	+20(Ref)	3949 979 997	0.0	0.000 000	0.000
	100 %	-30	3949 979 994	-2.5	0.000 000	-0.001
	100 %	-20	3949 979 991	-5.6	0.000 000	-0.001
	100 %	-10	3949 979 991	-6.0	0.000 000	-0.002
	100 %	0	3949 979 987	-9.5	0.000 000	-0.002
	100 %	+10	3949 979 990	-7.3	0.000 000	-0.002
	100 %	+30	3949 979 990	-6.8	0.000 000	-0.002
	100 %	+40	3949 979 992	-5.1	0.000 000	-0.001
	100 %	+50	3949 979 993	-4.3	0.000 000	-0.001
	Batt. Endpoint	+20	3949 979 988	-8.4	0.000 000	-0.002

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.860 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 999 981	-7.7	0.000 000	-0.002
	100 %	-20	3734 999 984	-4.7	0.000 000	-0.001
	100 %	-10	3734 999 976	-12.2	0.000 000	-0.003
	100 %	0	3734 999 982	-6.4	0.000 000	-0.002
	100 %	+10	3734 999 984	-4.7	0.000 000	-0.001
	100 %	+30	3734 999 977	-11.8	0.000 000	-0.003
	100 %	+40	3734 999 985	-3.6	0.000 000	-0.001
	100 %	+50	3734 999 981	-7.1	0.000 000	-0.002
	Batt. Endpoint	+20	3734 999 984	-4.8	0.000 000	-0.001
3945.000	100 %	+20(Ref)	3944 999 999	0.0	0.000 000	0.000
	100 %	-30	3944 999 999	0.8	0.000 000	0.000
	100 %	-20	3944 999 997	-1.5	0.000 000	0.000
	100 %	-10	3944 999 990	-8.3	0.000 000	-0.002
	100 %	0	3944 999 990	-8.8	0.000 000	-0.002
	100 %	+10	3944 999 991	-7.8	0.000 000	-0.002
	100 %	+30	3944 999 994	-4.5	0.000 000	-0.001
	100 %	+40	3944 999 992	-6.4	0.000 000	-0.002
	100 %	+50	3944 999 998	-0.5	0.000 000	0.000
	Batt. Endpoint	+20	3944 999 998	-0.9	0.000 000	0.000

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.860 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 009 995	0.0	0.000 000	0.000
	100 %	-30	3740 009 988	-7.2	0.000 000	-0.002
	100 %	-20	3740 009 992	-2.3	0.000 000	-0.001
	100 %	-10	3740 009 985	-9.3	0.000 000	-0.002
	100 %	0	3740 009 989	-5.7	0.000 000	-0.002
	100 %	+10	3740 009 993	-1.7	0.000 000	0.000
	100 %	+30	3740 009 988	-7.2	0.000 000	-0.002
	100 %	+40	3740 009 993	-1.9	0.000 000	-0.001
	100 %	+50	3740 009 993	-2.3	0.000 000	-0.001
	Batt. Endpoint	+20	3740 009 989	-6.0	0.000 000	-0.002
3939.990	100 %	+20(Ref)	3939 989 995	0.0	0.000 000	0.000
	100 %	-30	3939 989 990	-4.4	0.000 000	-0.001
	100 %	-20	3939 989 993	-2.2	0.000 000	-0.001
	100 %	-10	3939 989 991	-3.4	0.000 000	-0.001
	100 %	0	3939 989 991	-3.7	0.000 000	-0.001
	100 %	+10	3939 989 989	-5.7	0.000 000	-0.001
	100 %	+30	3939 989 994	-0.8	0.000 000	0.000
	100 %	+40	3939 989 997	2.5	0.000 000	0.001
	100 %	+50	3939 989 994	-1.0	0.000 000	0.000
	Batt. Endpoint	+20	3939 989 995	-0.2	0.000 000	0.000

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

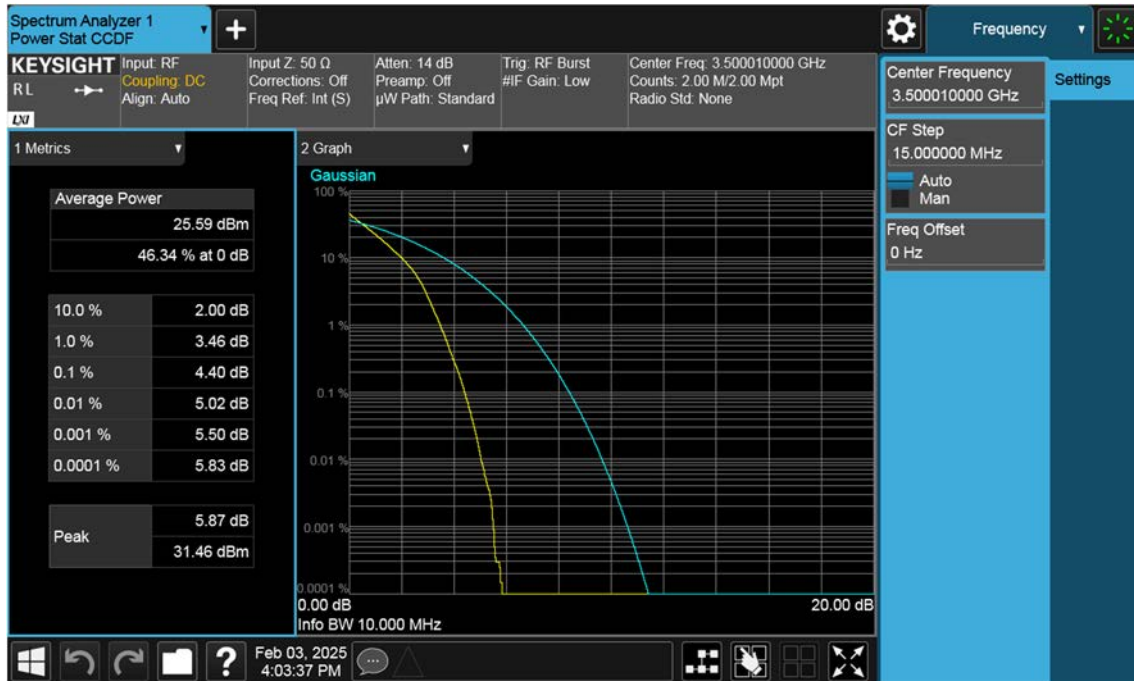
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3745.020	100 %	+20(Ref)	3745 019 995	0.0	0.000 000	0.000
	100 %	-30	3745 019 991	-3.8	0.000 000	-0.001
	100 %	-20	3745 019 991	-3.8	0.000 000	-0.001
	100 %	-10	3745 019 990	-5.4	0.000 000	-0.001
	100 %	0	3745 019 982	-12.7	0.000 000	-0.003
	100 %	+10	3745 019 994	-0.7	0.000 000	0.000
	100 %	+30	3745 019 987	-7.9	0.000 000	-0.002
	100 %	+40	3745 019 985	-9.4	0.000 000	-0.003
	100 %	+50	3745 019 990	-4.9	0.000 000	-0.001
	Batt. Endpoint	+20	3745 019 993	-1.6	0.000 000	0.000
3934.980	100 %	+20(Ref)	3934 980 006	0.0	0.000 000	0.000
	100 %	-30	3934 980 000	-5.6	0.000 000	-0.001
	100 %	-20	3934 980 004	-2.4	0.000 000	-0.001
	100 %	-10	3934 980 004	-2.3	0.000 000	-0.001
	100 %	0	3934 979 999	-6.8	0.000 000	-0.002
	100 %	+10	3934 980 001	-5.0	0.000 000	-0.001
	100 %	+30	3934 979 998	-7.9	0.000 000	-0.002
	100 %	+40	3934 980 004	-2.1	0.000 000	-0.001
	100 %	+50	3934 980 000	-6.2	0.000 000	-0.002
	Batt. Endpoint	+20	3934 980 003	-3.0	0.000 000	-0.001

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

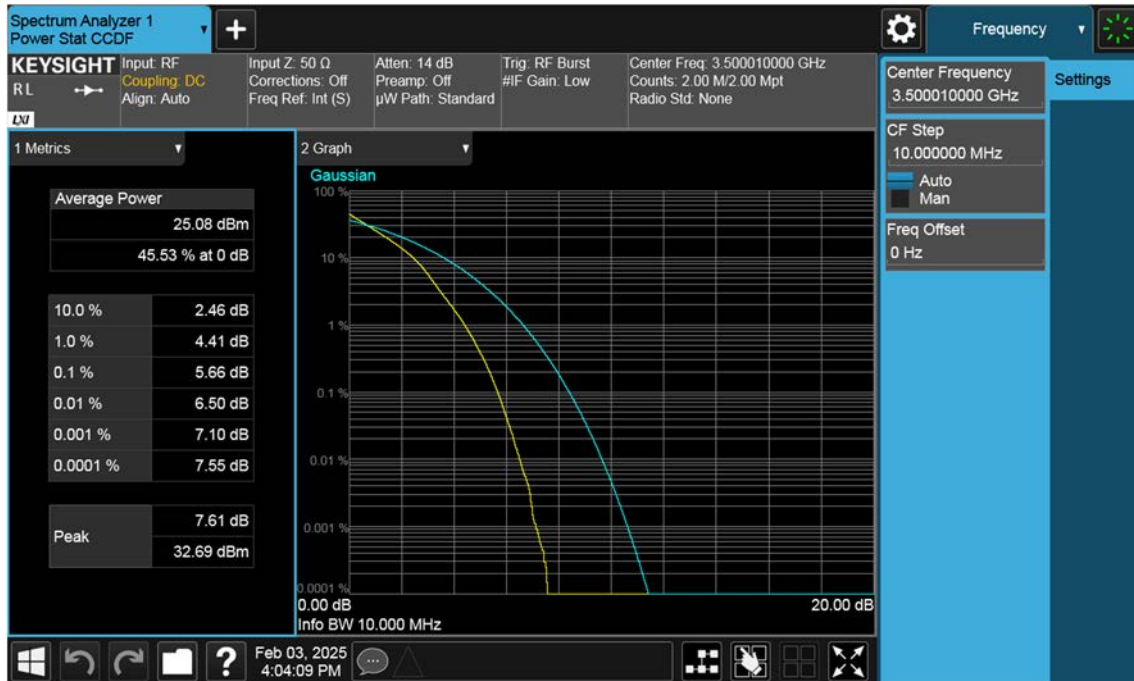
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3750.000	100 %	+20(Ref)	3749 999 995	0.0	0.000 000	0.000
	100 %	-30	3749 999 991	-3.8	0.000 000	-0.001
	100 %	-20	3749 999 990	-5.2	0.000 000	-0.001
	100 %	-10	3749 999 994	-0.8	0.000 000	0.000
	100 %	0	3749 999 989	-5.4	0.000 000	-0.001
	100 %	+10	3749 999 988	-7.2	0.000 000	-0.002
	100 %	+30	3749 999 989	-5.4	0.000 000	-0.001
	100 %	+40	3749 999 992	-2.4	0.000 000	-0.001
	100 %	+50	3749 999 993	-1.8	0.000 000	0.000
	Batt. Endpoint	+20	3749 999 993	-1.8	0.000 000	0.000
3930.000	100 %	+20(Ref)	3929 999 999	0.0	0.000 000	0.000
	100 %	-30	3929 999 999	0.3	0.000 000	0.000
	100 %	-20	3929 999 996	-2.8	0.000 000	-0.001
	100 %	-10	3929 999 994	-5.0	0.000 000	-0.001
	100 %	0	3929 999 999	-0.1	0.000 000	0.000
	100 %	+10	3929 999 993	-5.9	0.000 000	-0.002
	100 %	+30	3929 999 995	-4.1	0.000 000	-0.001
	100 %	+40	3929 999 995	-4.1	0.000 000	-0.001
	100 %	+50	3929 999 997	-2.0	0.000 000	0.000
	Batt. Endpoint	+20	3929 999 986	-13.3	0.000 000	-0.003

10. TEST PLOTS(3450 MHz - 3550 MHz)

n77(3450~3550 MHz)_10 M_PAR_Mid_BPSK_FullRB



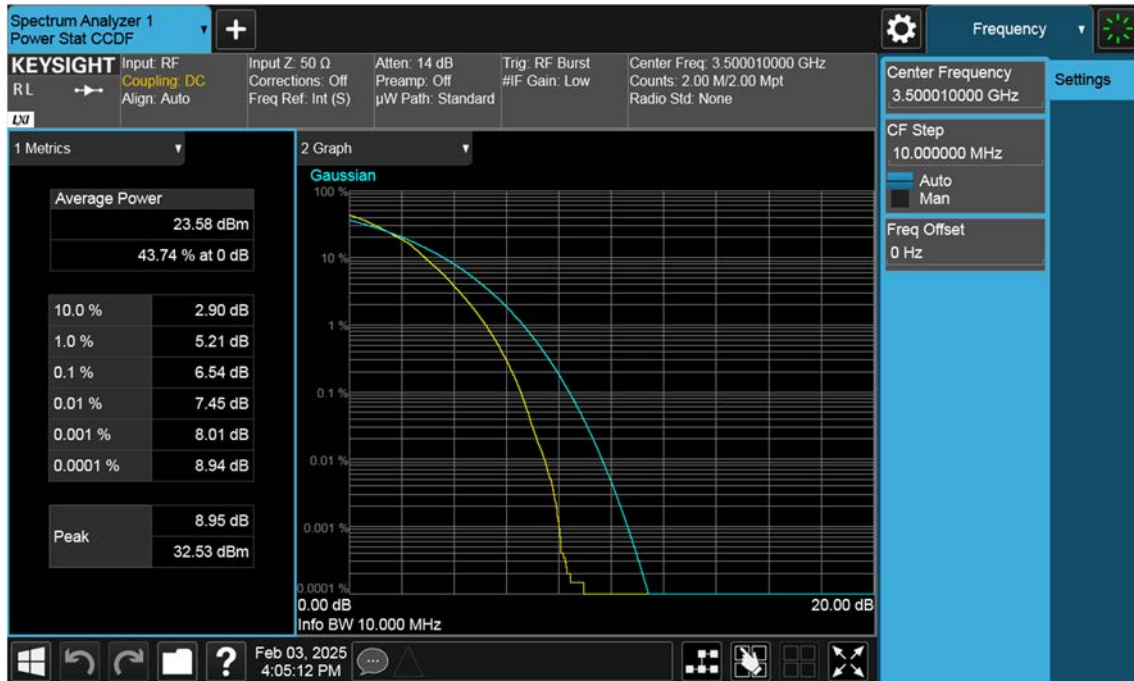
n77(3450~3550 MHz)_10 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_10 M_PAR_Mid_16QAM_FullRB



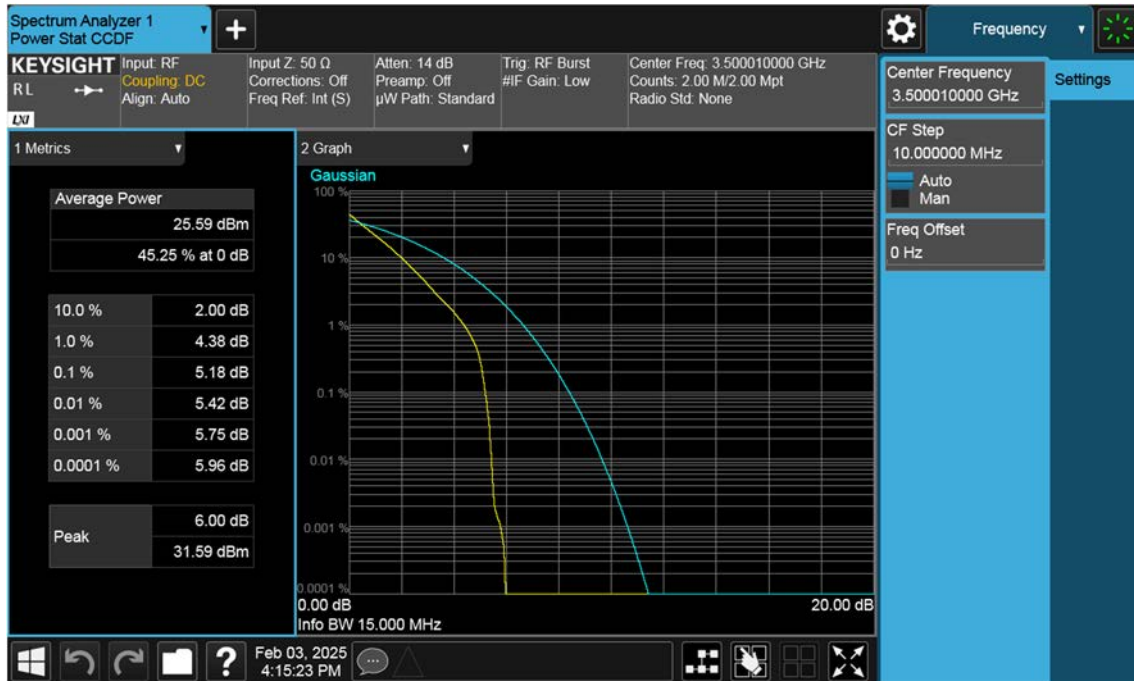
n77(3450~3550 MHz)_10 M_PAR_Mid_64QAM_FullRB



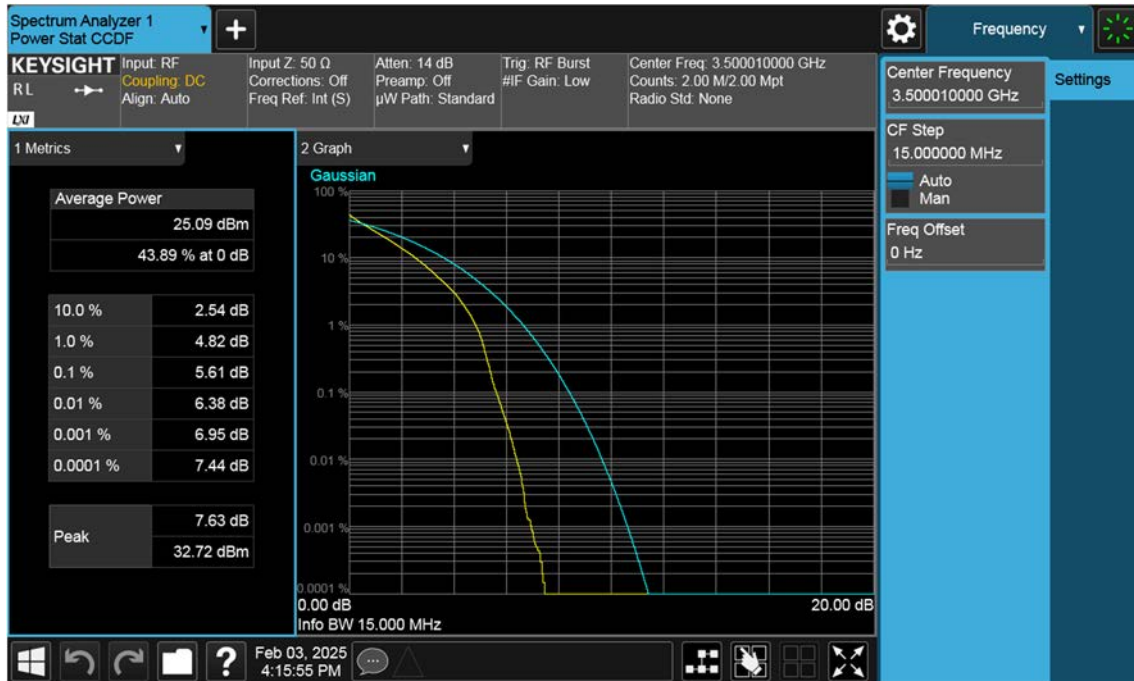
n77(3450~3550 MHz)_10 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_15 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_15 M_PAR_Mid_QPSK_FullRB



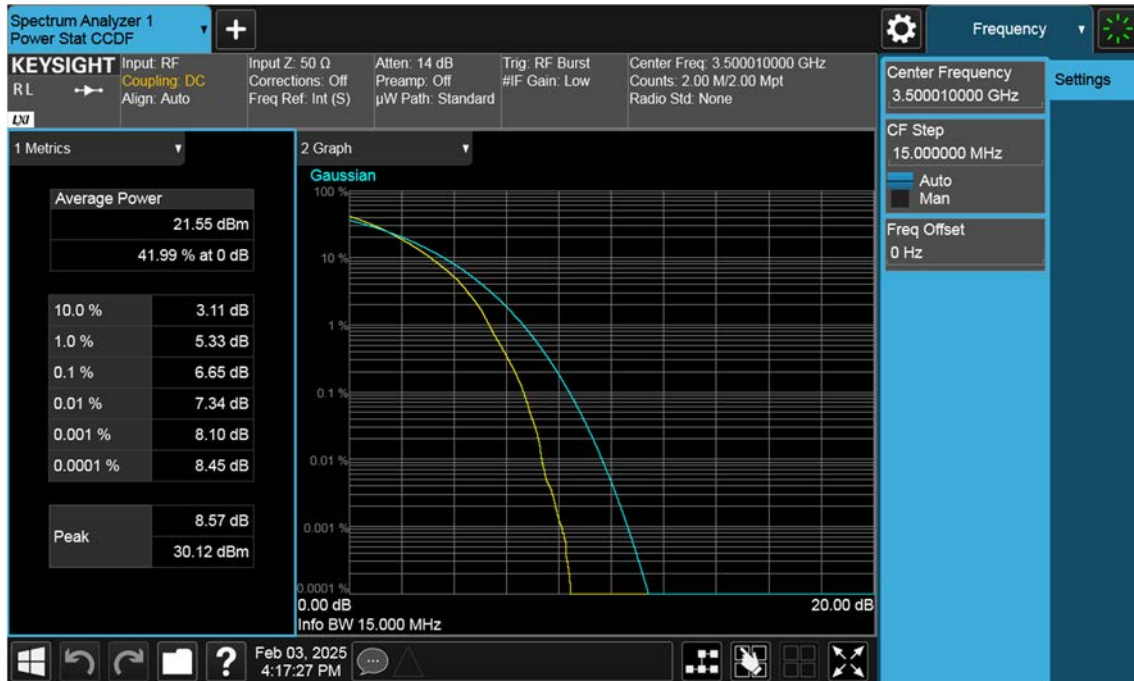
n77(3450~3550 MHz)_15 M_PAR_Mid_16QAM_FullRB



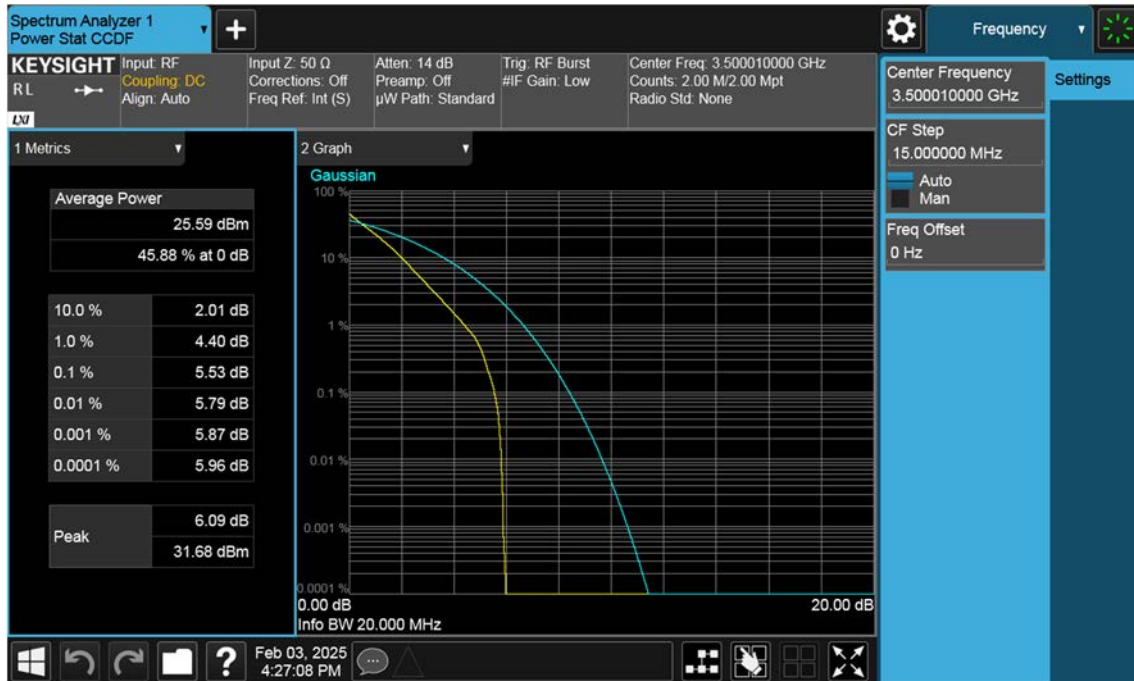
n77(3450~3550 MHz)_15 M_PAR_Mid_64QAM_FullRB



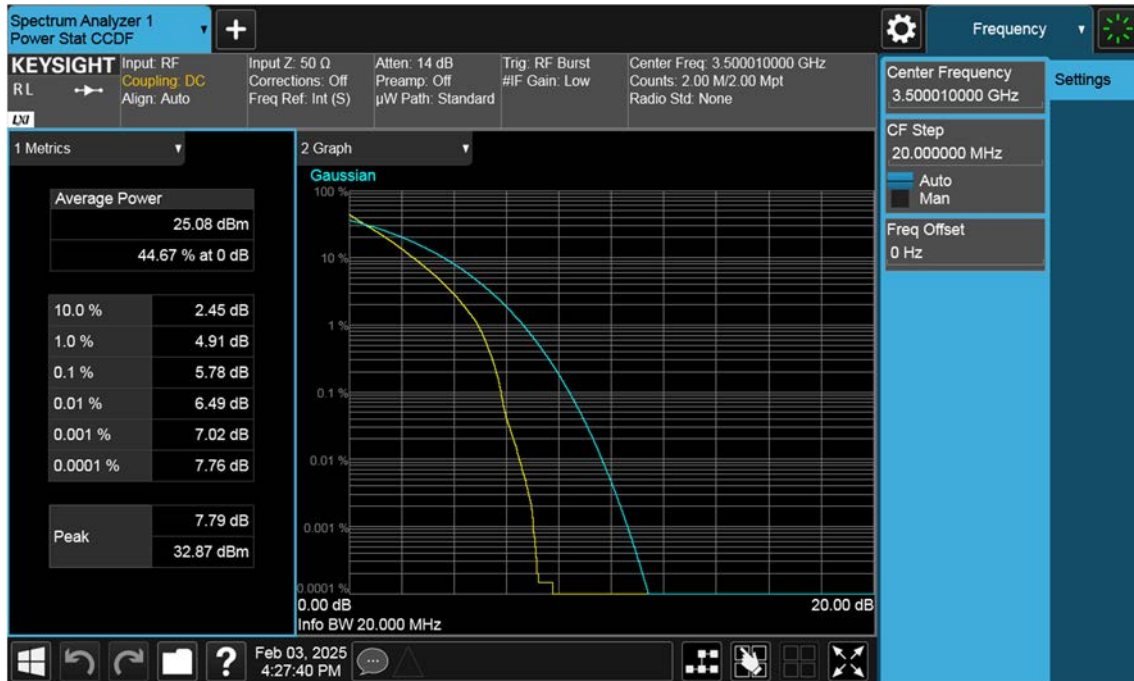
n77(3450~3550 MHz)_15 M_PAR_Mid_256QAM_FullRB



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



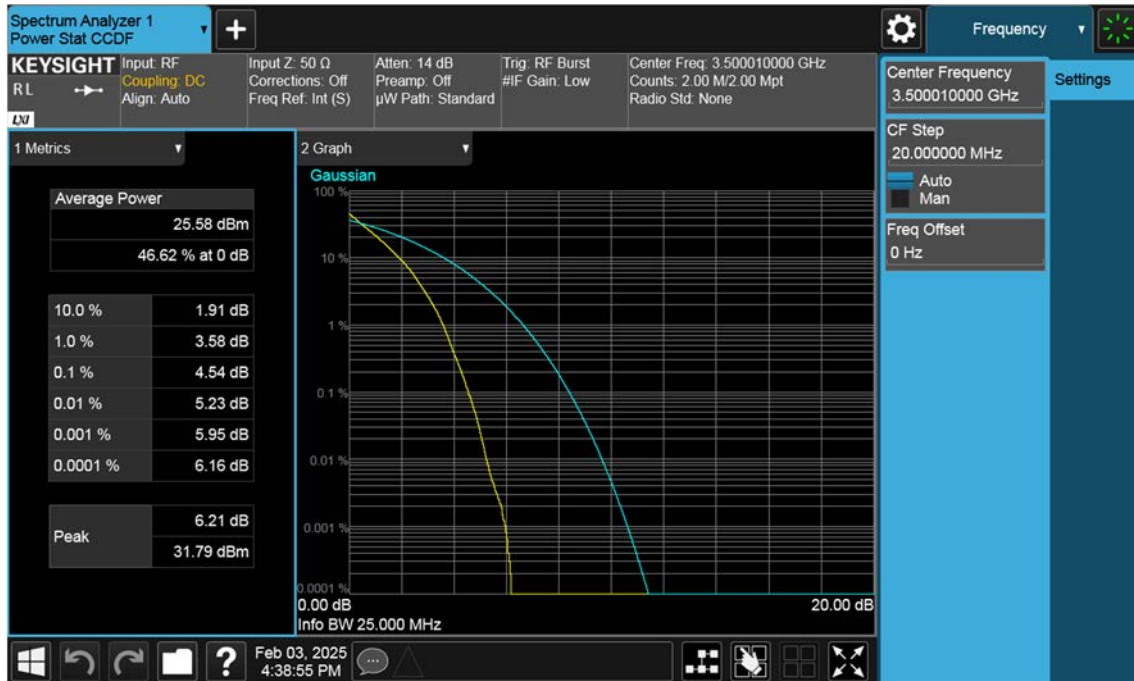
n77(3450~3550 MHz)_20 M_PAR_Mid_64QAM_FullRB



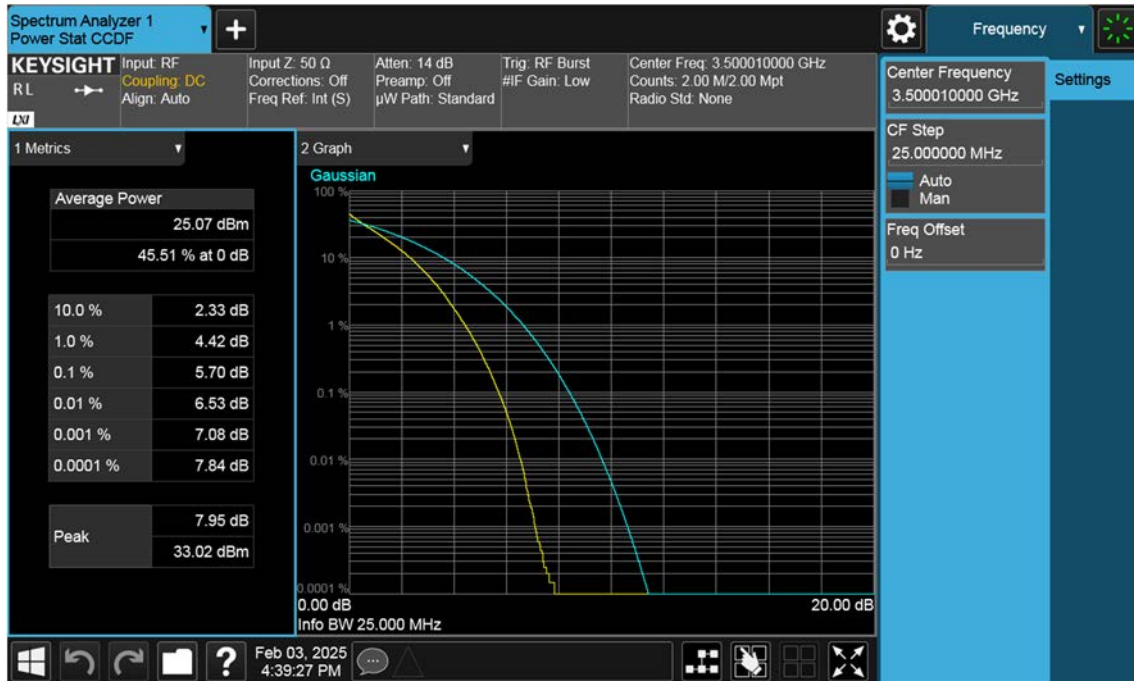
n77(3450~3550 MHz)_20 M_PAR_Mid_256QAM_FullRB



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



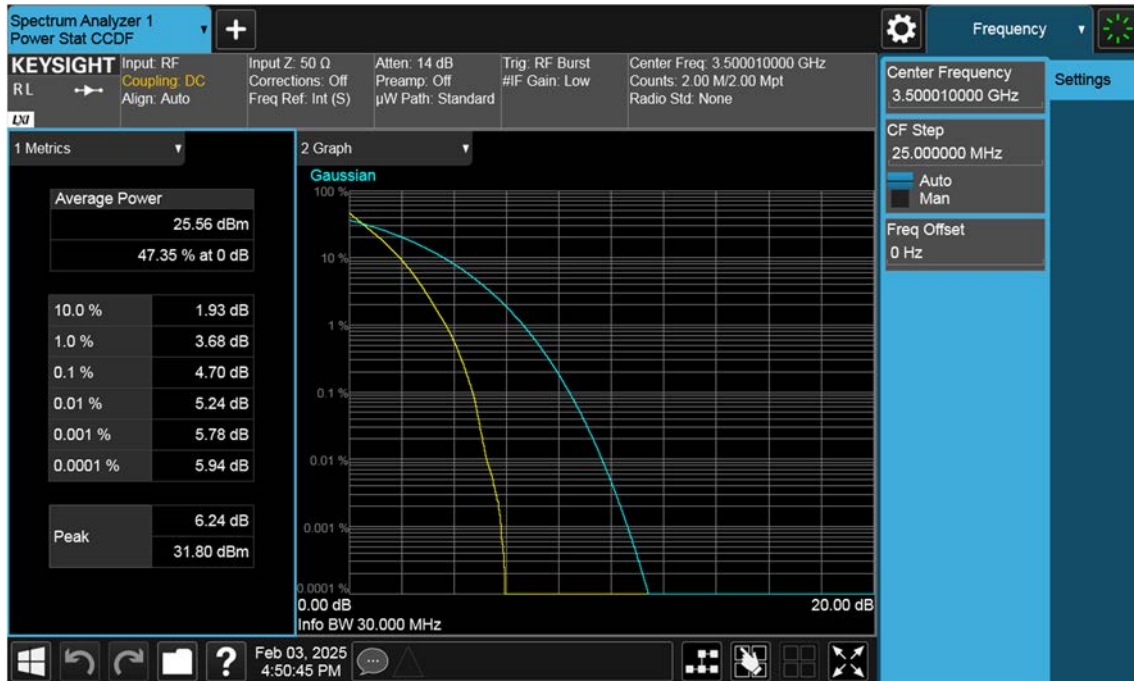
n77(3450~3550 MHz)_25 M_PAR_Mid_64QAM_FullRB



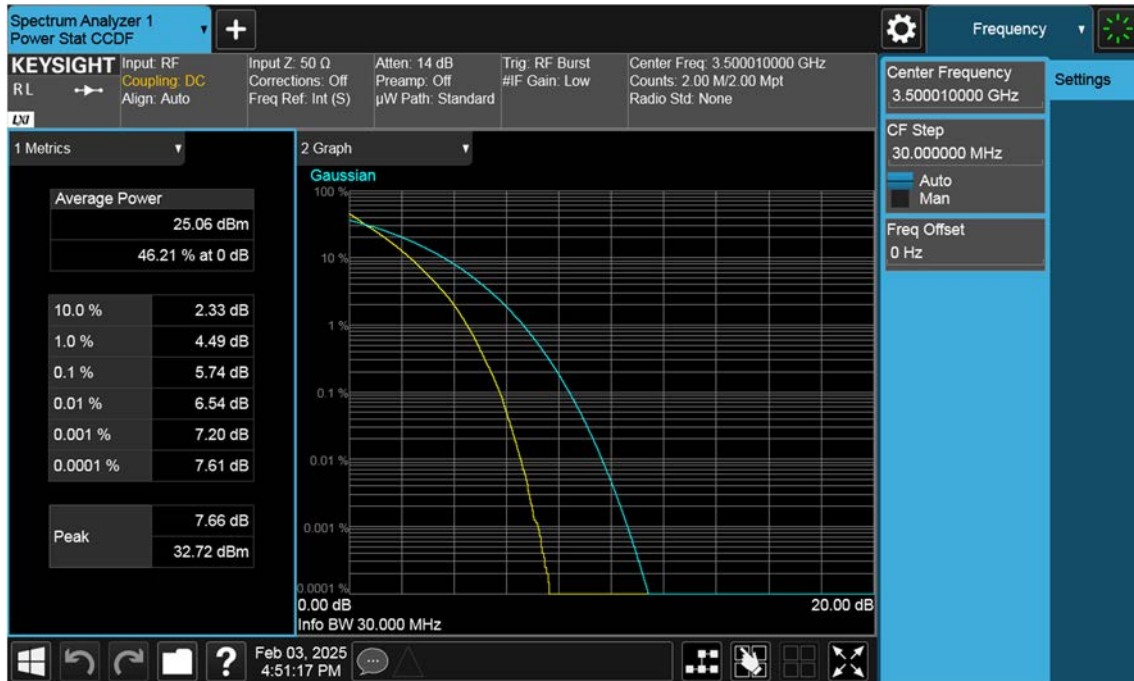
n77(3450~3550 MHz)_25 M_PAR_Mid_256QAM_FullRB



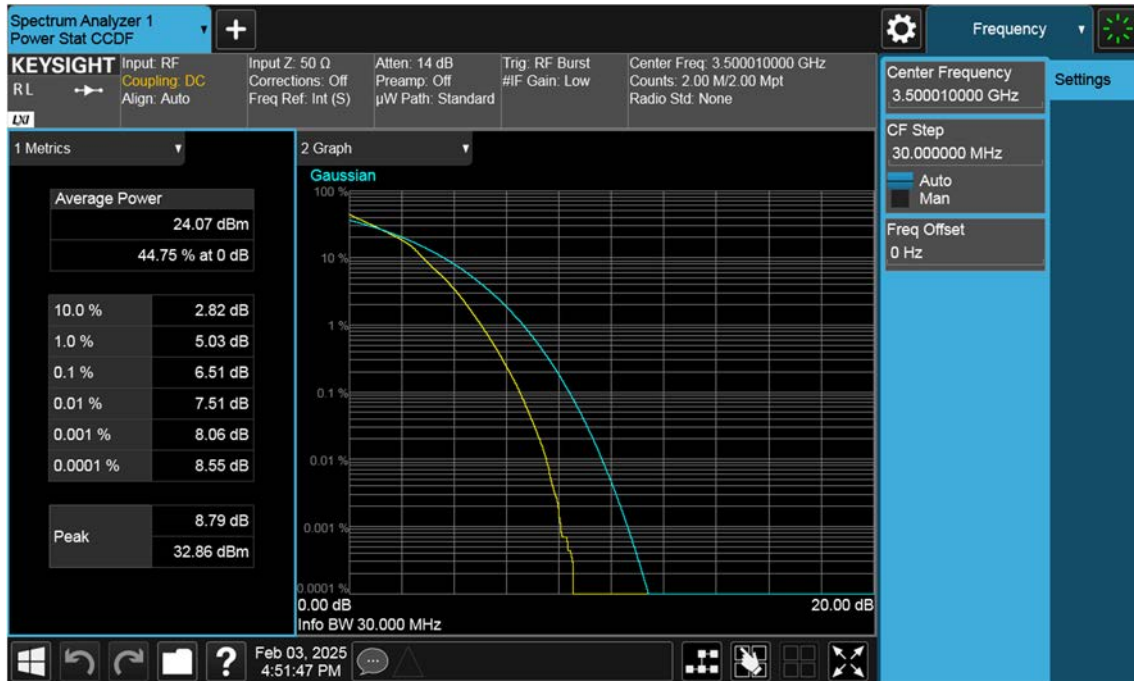
n77(3450~3550 MHz)_30 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_30 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_30 M_PAR_Mid_16QAM_FullRB



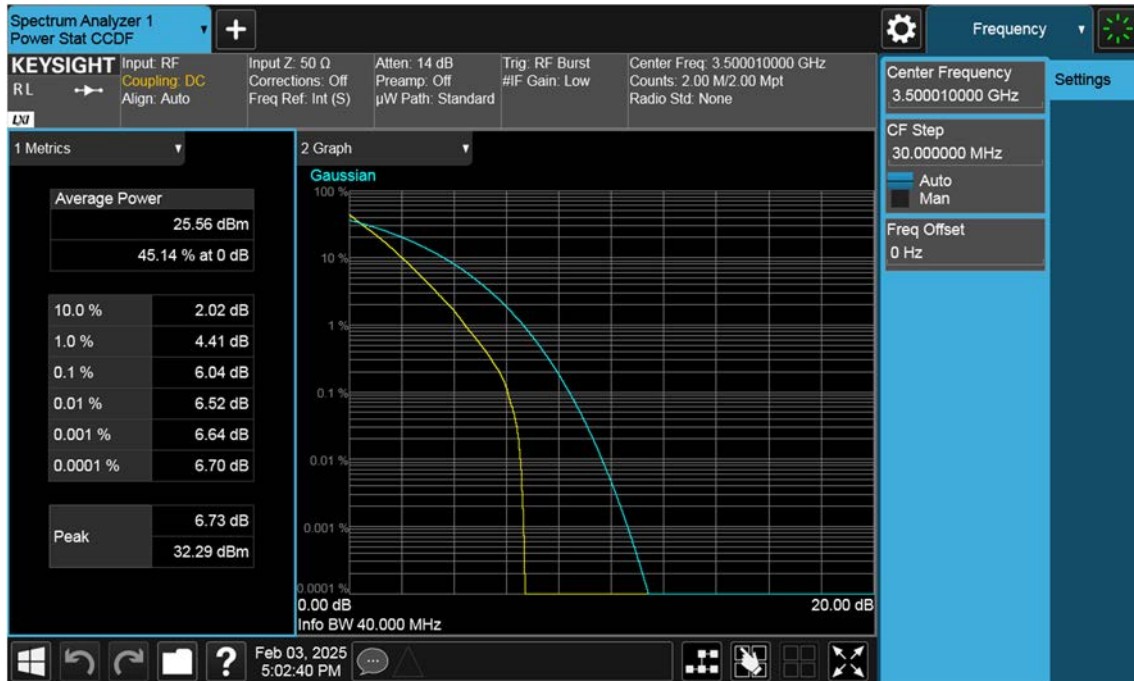
n77(3450~3550 MHz)_30 M_PAR_Mid_64QAM_FullRB



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



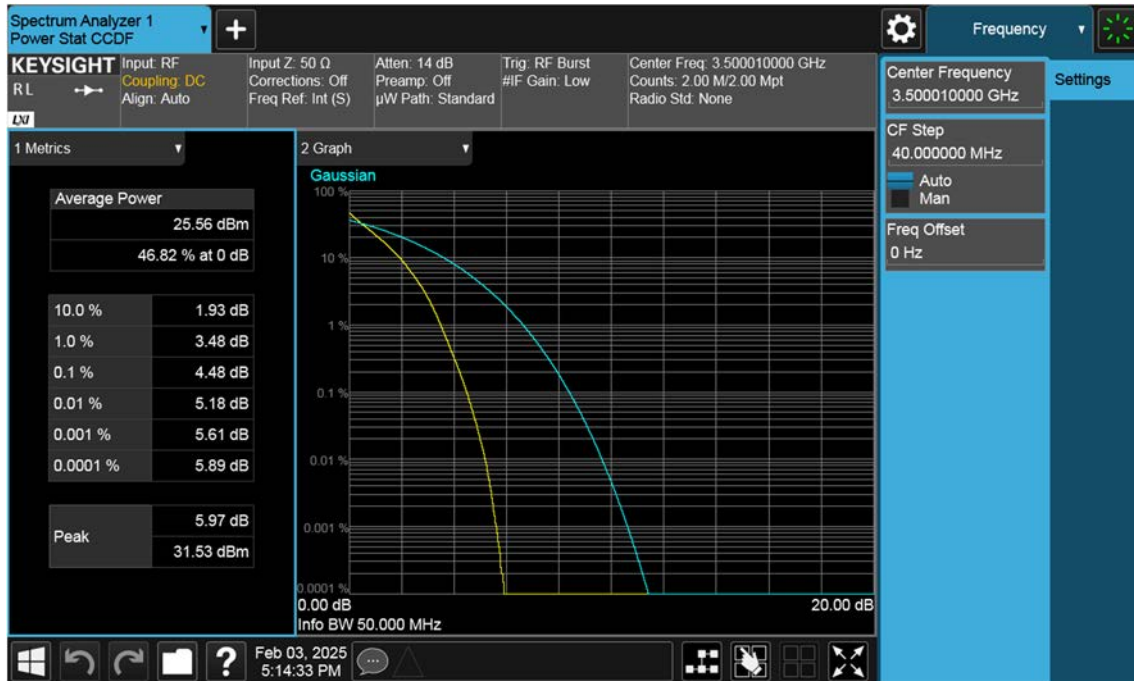
n77(3450~3550 MHz)_40 M_PAR_Mid_64QAM_FullRB



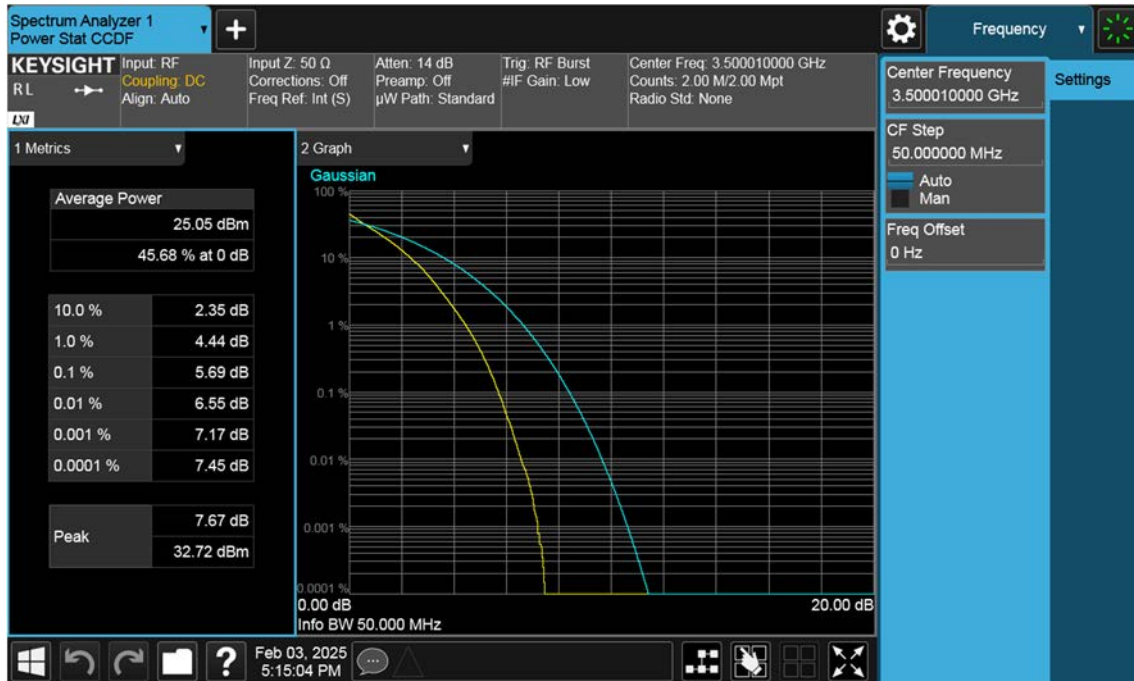
n77(3450~3550 MHz)_40 M_PAR_Mid_256QAM_FullRB



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



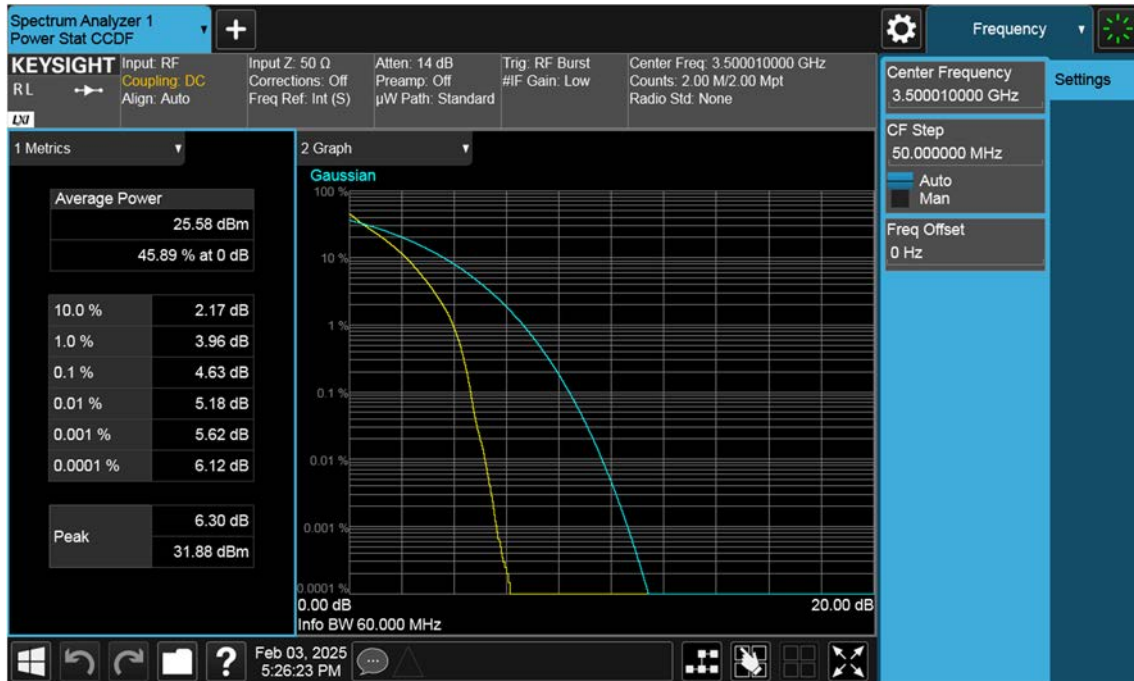
n77(3450~3550 MHz)_50 M_PAR_Mid_64QAM_FullRB



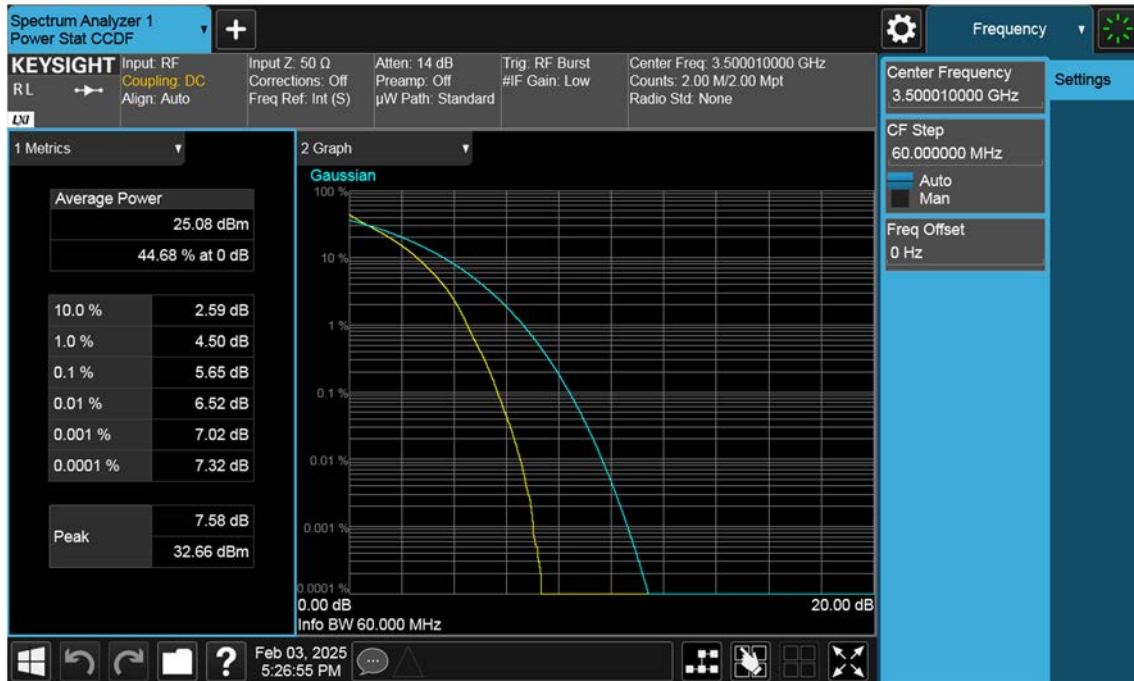
n77(3450~3550 MHz)_50 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_60 M_PAR_Mid_BPSK_FullRB



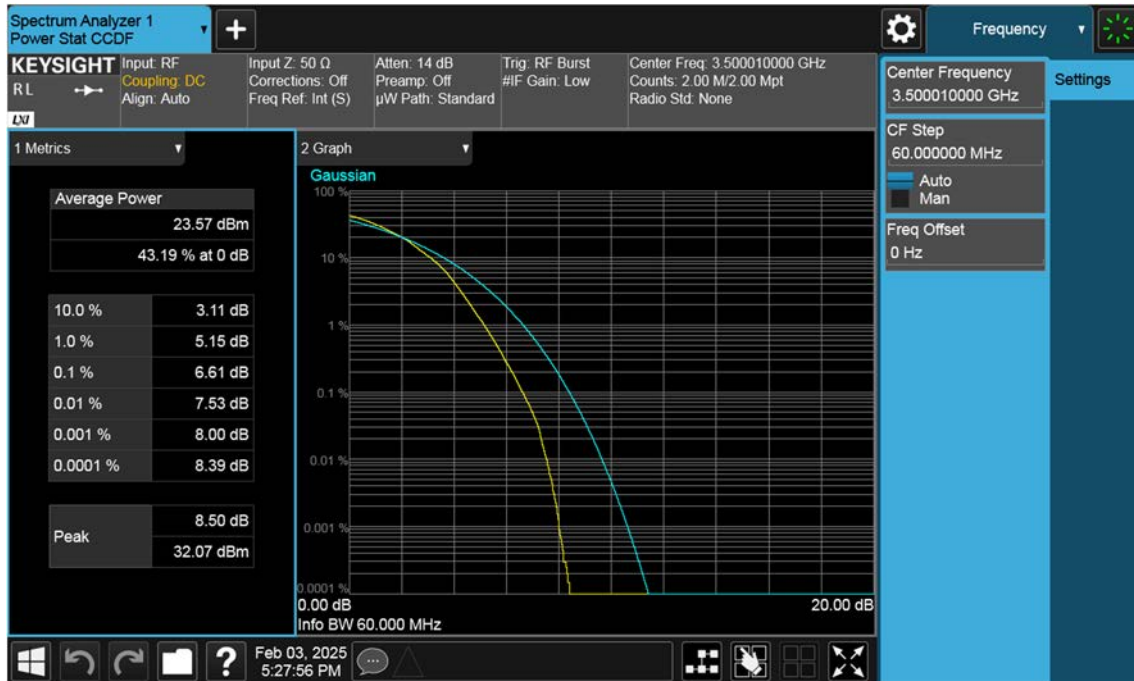
n77(3450~3550 MHz)_60 M_PAR_Mid_QPSK_FullRB



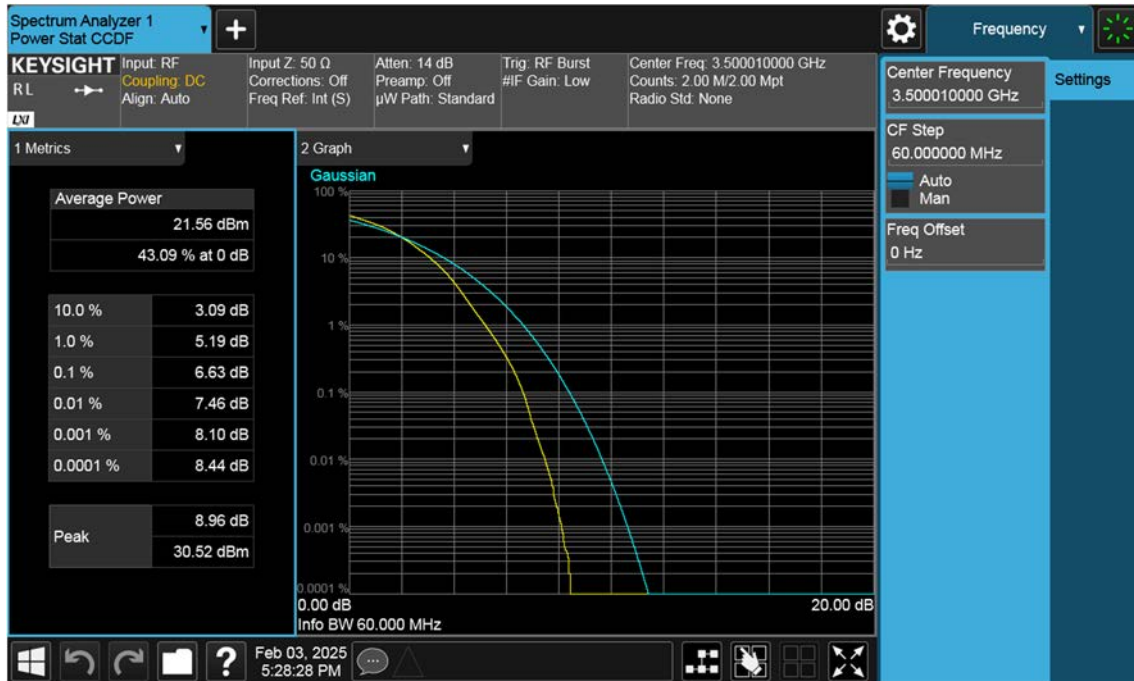
n77(3450~3550 MHz)_60 M_PAR_Mid_16QAM_FullRB



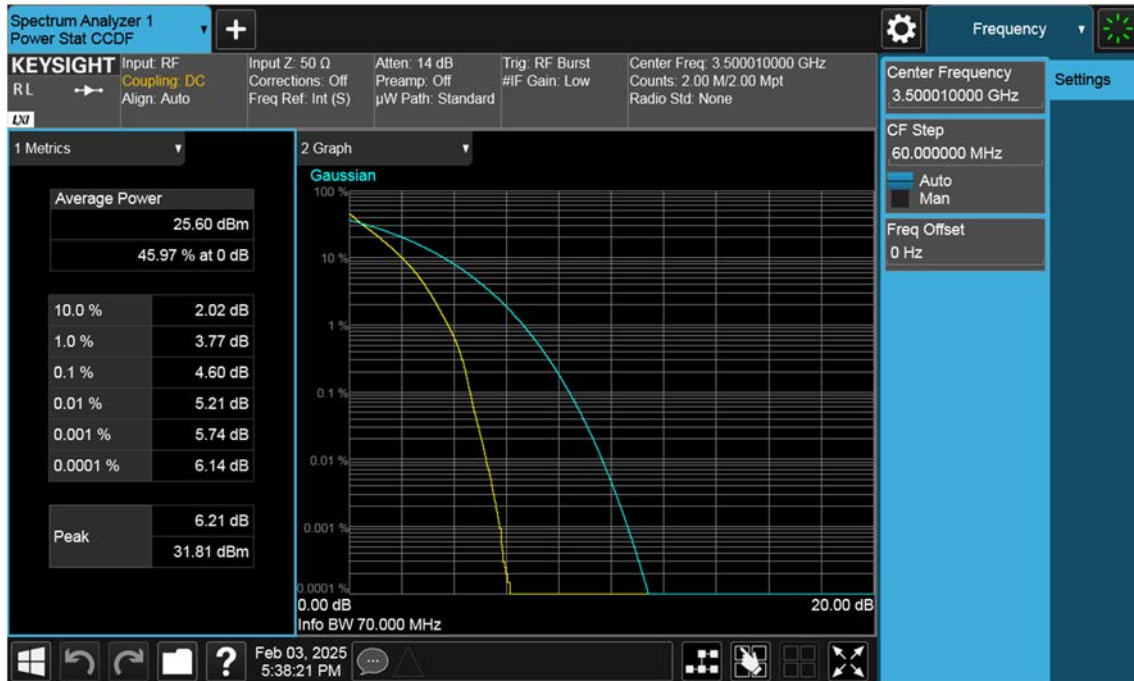
n77(3450~3550 MHz)_60 M_PAR_Mid_64QAM_FullRB



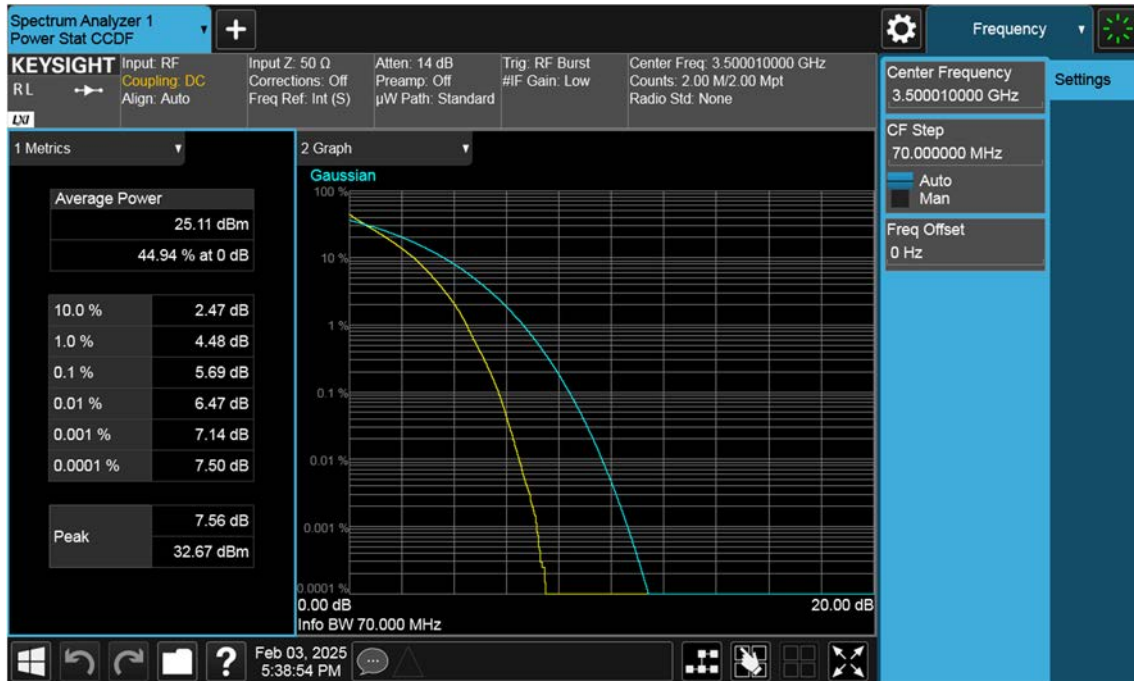
n77(3450~3550 MHz)_60 M_PAR_Mid_256QAM_FullRB



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



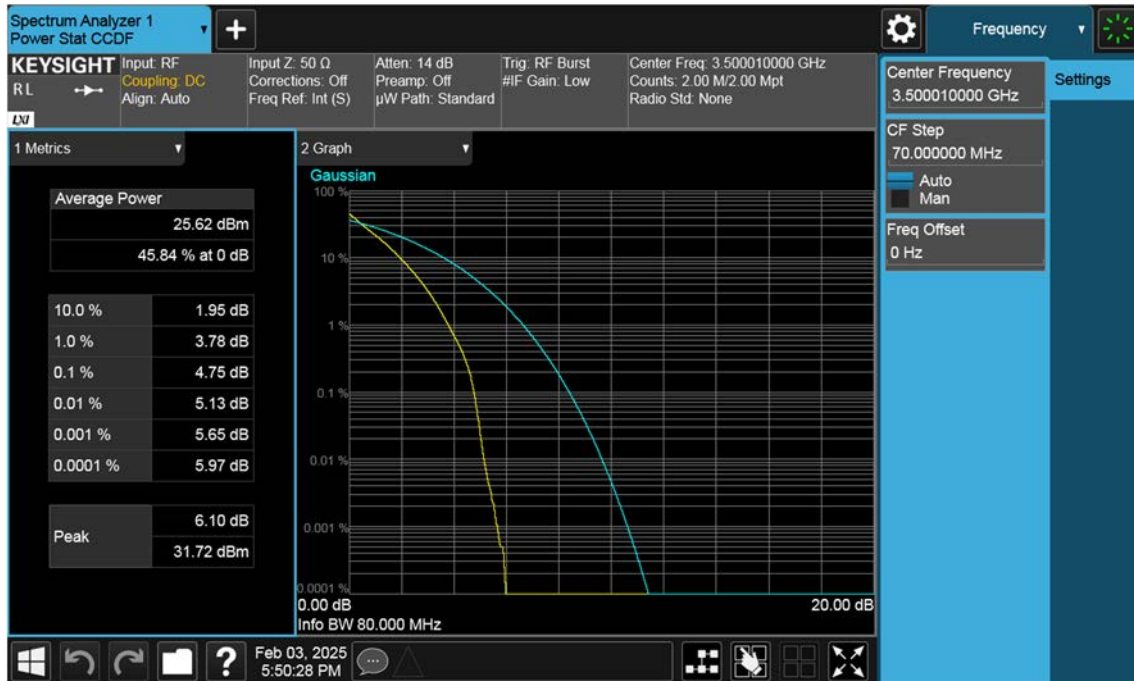
n77(3450~3550 MHz)_70 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_70 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_80 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_80 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_80 M_PAR_Mid_16QAM_FullRB



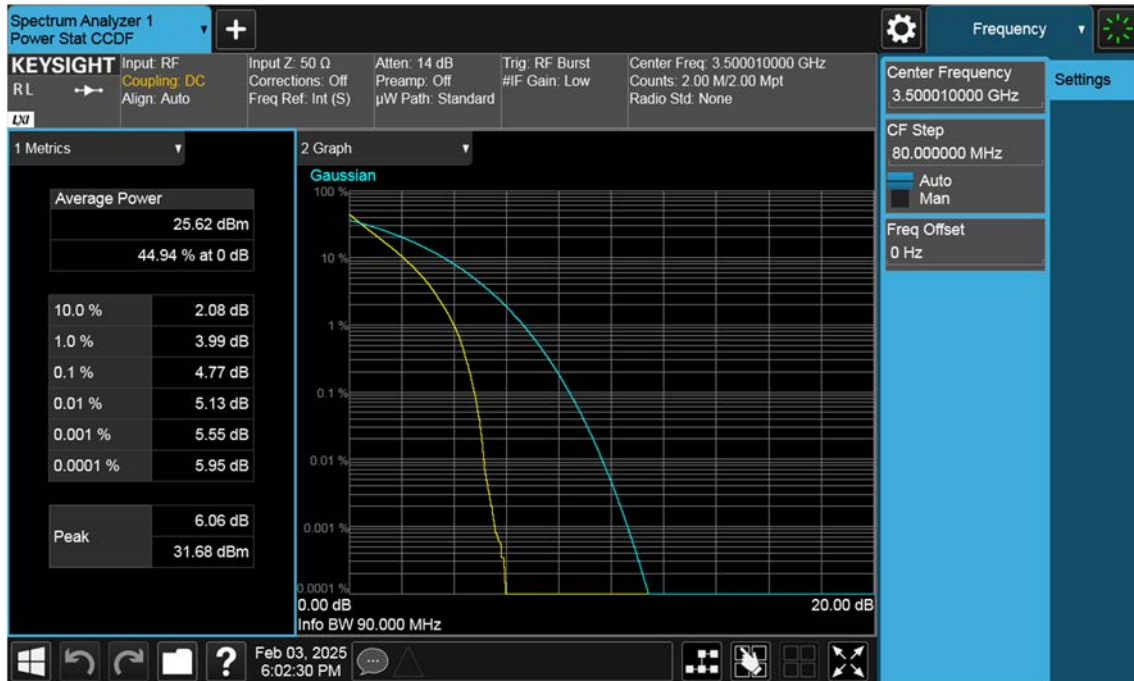
n77(3450~3550 MHz)_80 M_PAR_Mid_64QAM_FullRB



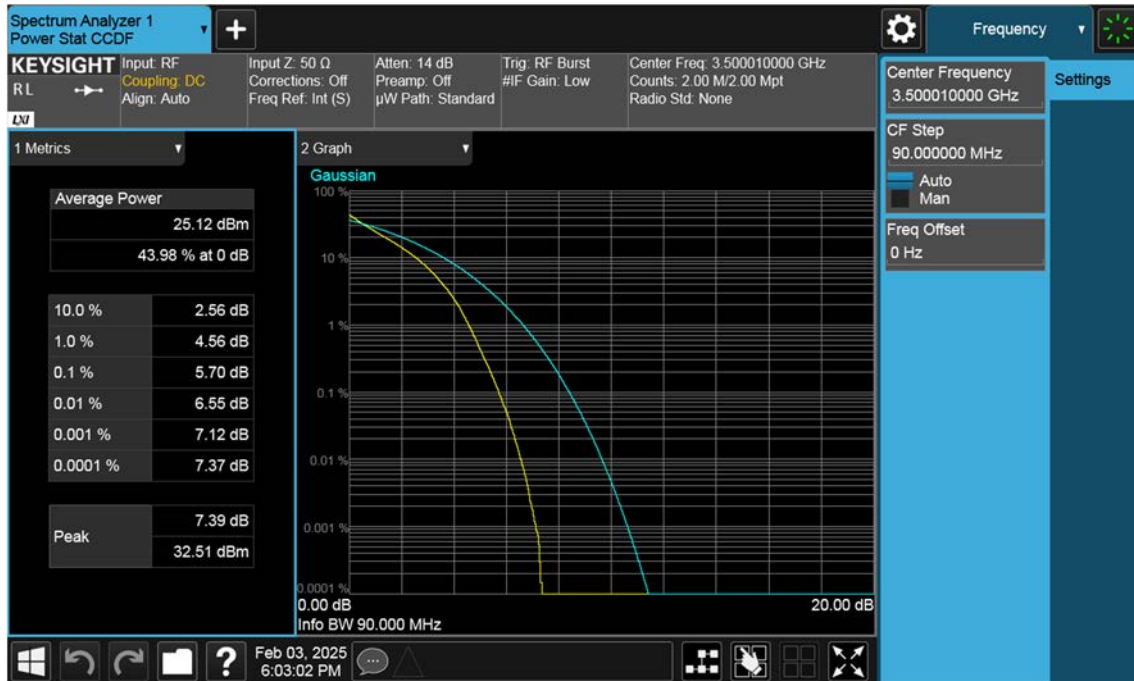
n77(3450~3550 MHz)_80 M_PAR_Mid_256QAM_FullRB



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



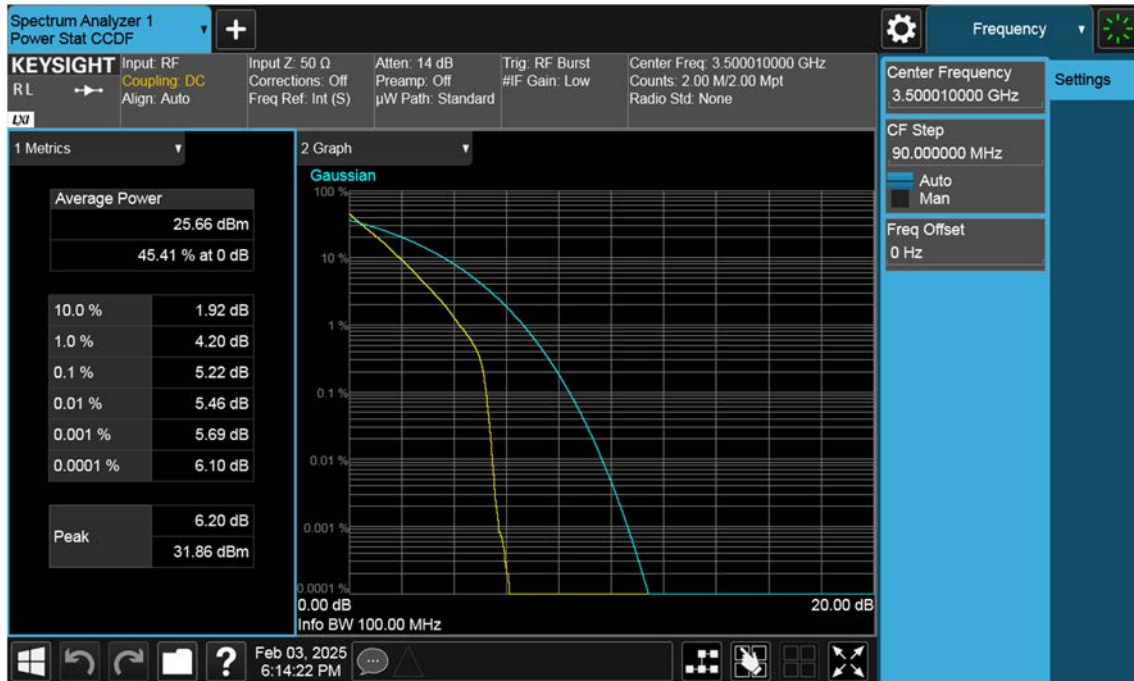
n77(3450~3550 MHz)_90 M_PAR_Mid_64QAM_FullRB



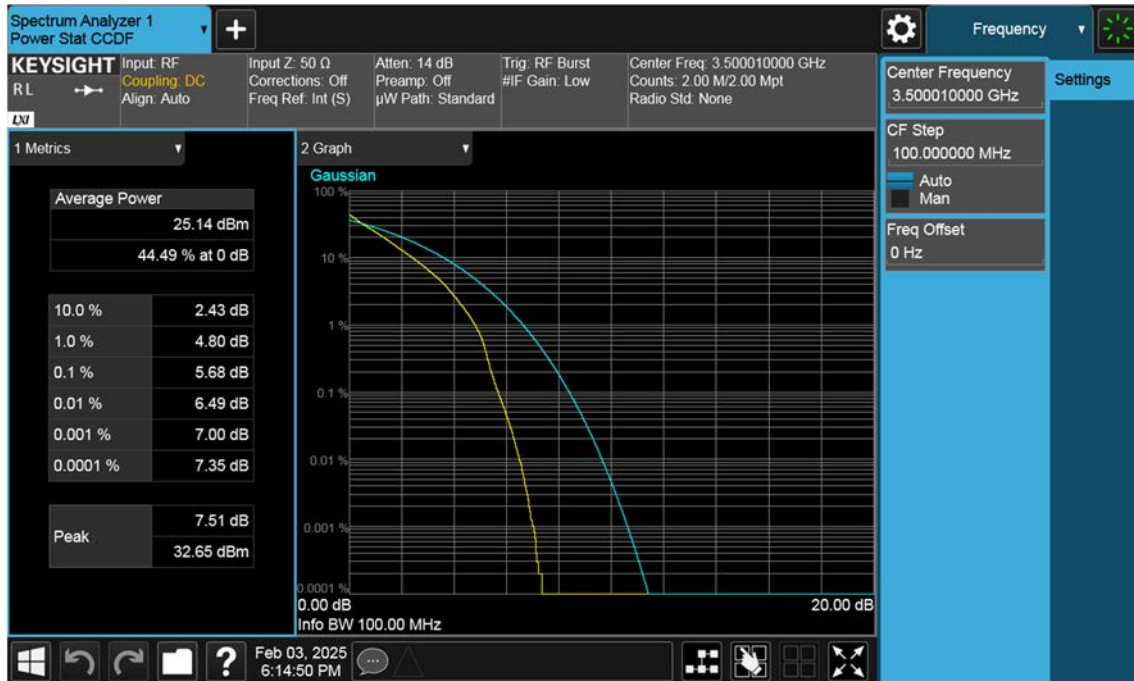
n77(3450~3550 MHz)_90 M_PAR_Mid_256QAM_FullRB



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



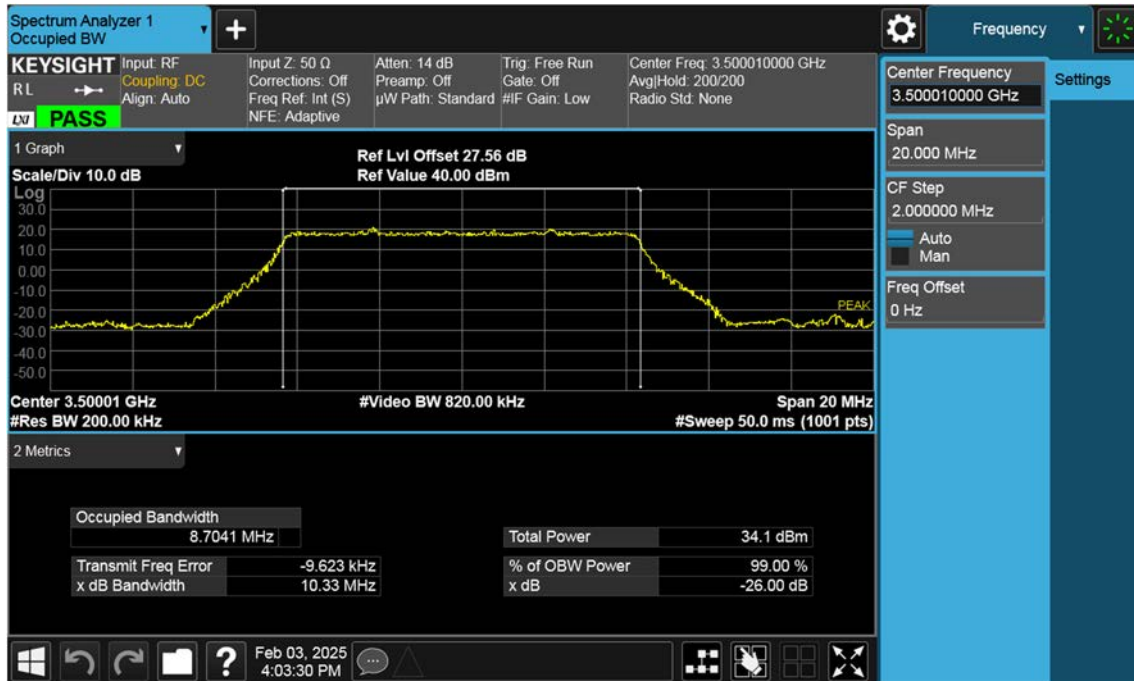
n77(3450~3550 MHz)_100 M_PAR_Mid_64QAM_FullRB



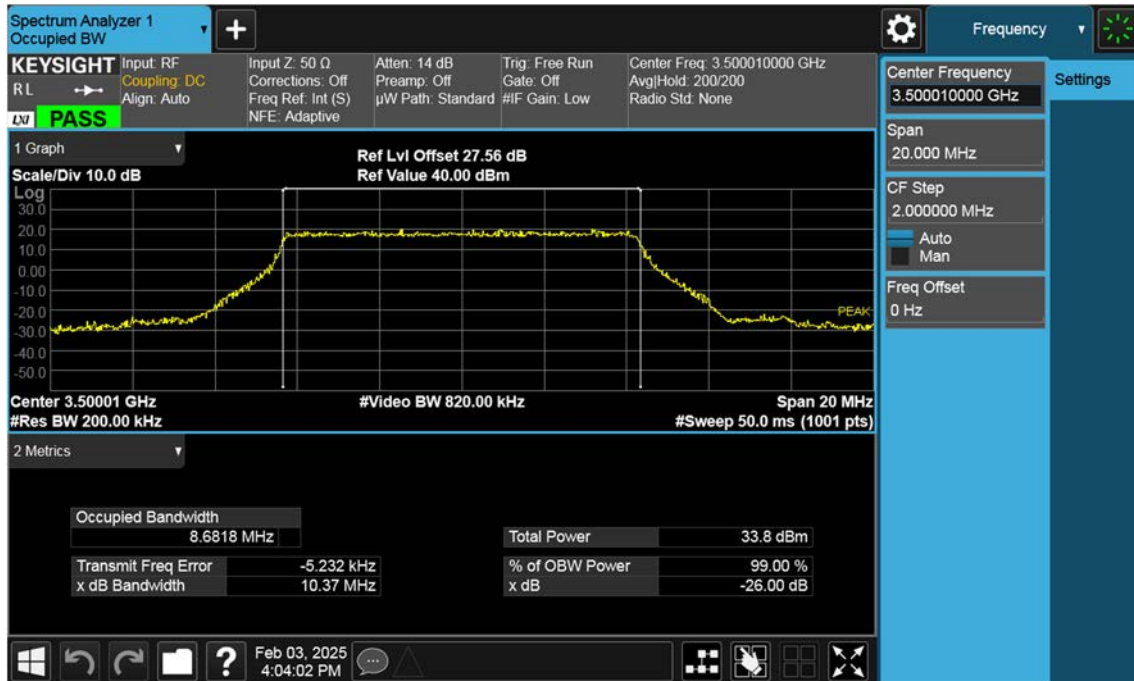
n77(3450~3550 MHz)_100 M_PAR_Mid_256QAM_FullRB



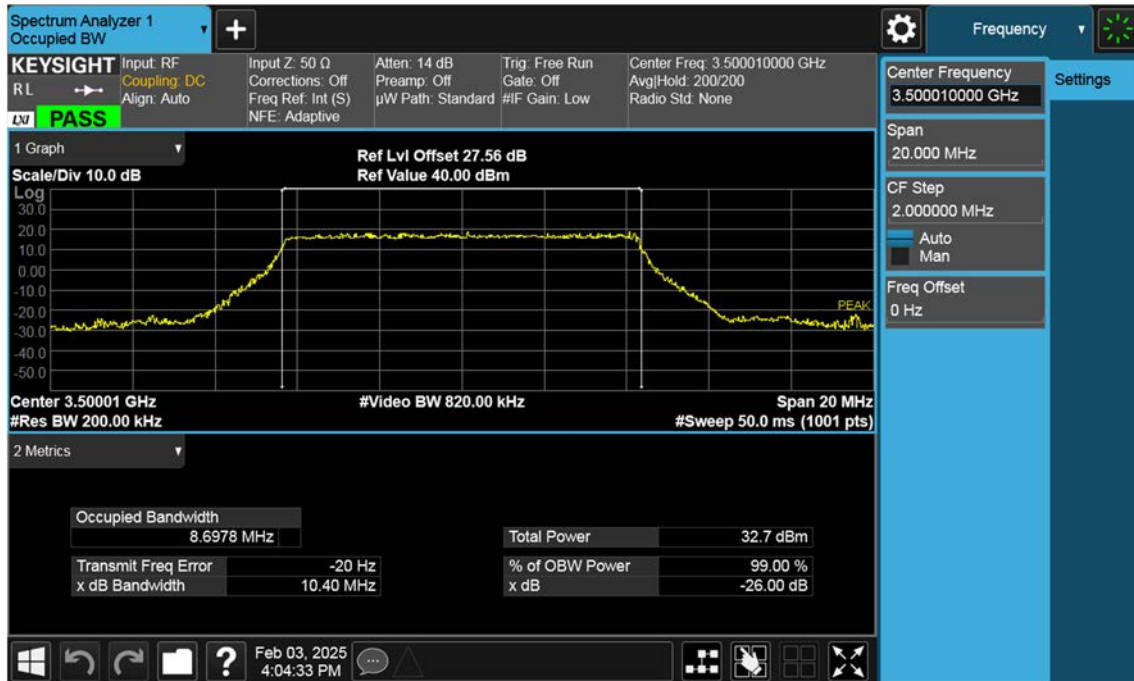
n77(3450~3550 MHz)_10 M_OBW_Mid_BPSK_FullRB



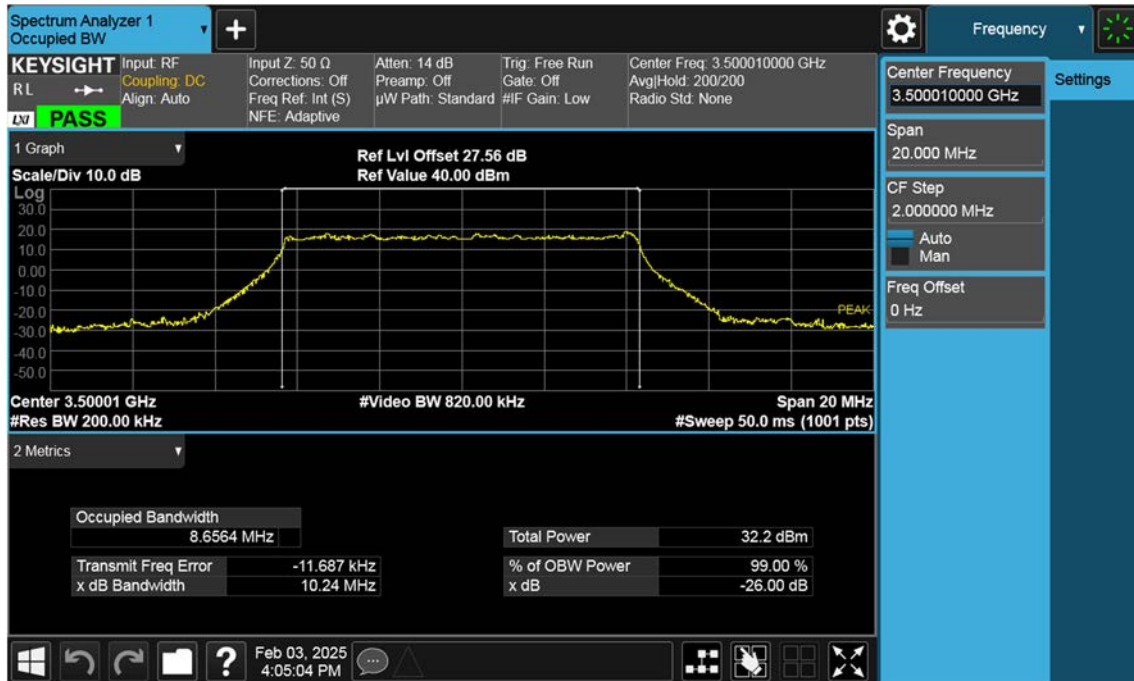
n77(3450~3550 MHz)_10 M_OBW_Mid_QPSK_FullRB



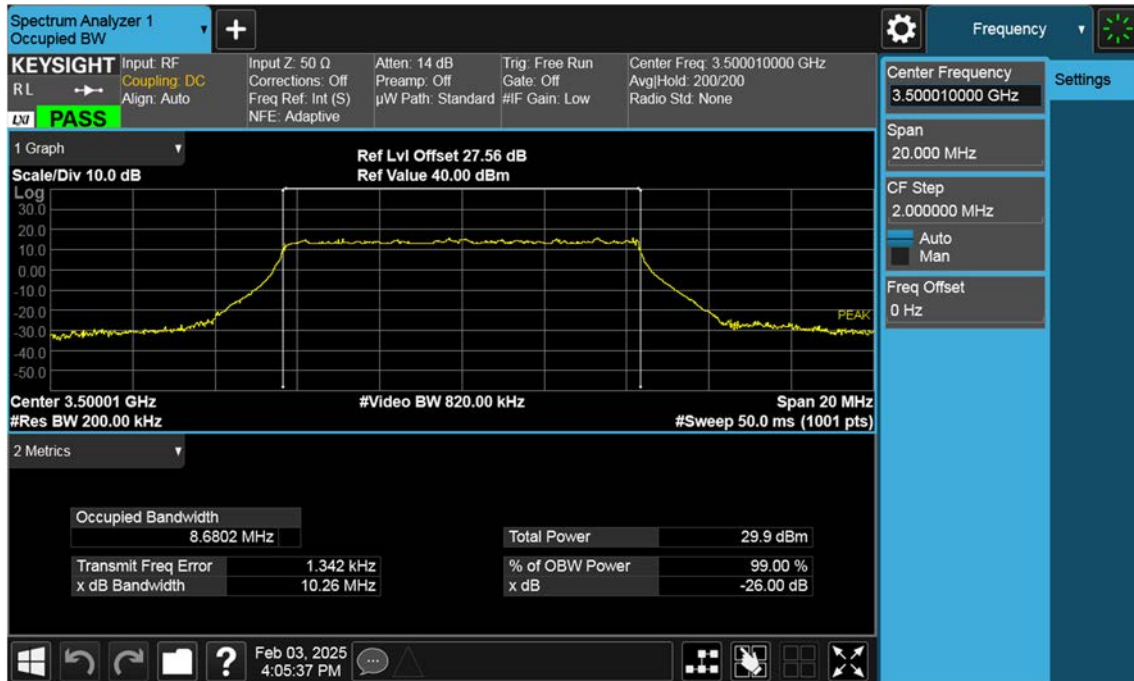
n77(3450~3550 MHz)_10 M_OBW_Mid_16QAM_FullRB



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

