

TEST REPORT

FCC Sub6 n77(78) Test for SM-A176U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2510-FC026

DATE OF ISSUE
October 15, 2025

Tested by
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TEST REPORT

REPORT NO.

HCT-RF-2510-FC026

DATE OF ISSUE

October 15, 2025

Additional Model

SM-A176U1, SM-S176V

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

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

Product Name

Mobile Phone

Model Name

SM-A176U

Date of Test

August 28, 2025 ~ October 01, 2025

FCC ID

A3LSMA176U

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing

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

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

Test Standard Used

FCC Rule Part: §27

Test Results

PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	October 15, 2025	Initial Release

Notice

Content

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

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

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

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

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

Information provided by the applicant is marked **.

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

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

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

CONTENTS

1. GENERAL INFORMATION.....	5
1.1. MAXIMUM OUTPUT POWER.....	6
2. INTRODUCTION.....	10
2.1. DESCRIPTION OF EUT.....	10
2.2. MEASURING INSTRUMENT CALIBRATION.....	10
2.3. TEST FACILITY	10
2.4. EQUIPMENT.....	10
3. DESCRIPTION OF TESTS.....	11
3.1 TEST PROCEDURE.....	11
3.2 RADIATED POWER.....	12
3.3 RADIATED SPURIOUS EMISSIONS	13
3.4 PEAK- TO- AVERAGE RATIO.....	14
3.5 OCCUPIED BANDWIDTH.	16
3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL.....	17
3.7 BAND EDGE	18
3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	20
3.9 WORST CASE(RADIATED TEST)	21
3.10 WORST CASE(CONDUCTED TEST)	23
4. LIST OF TEST EQUIPMENT.....	25
5. MEASUREMENT UNCERTAINTY.....	26
6. SUMMARY OF TEST RESULTS	27
7. SAMPLE CALCULATION	28
8. TEST DATA(3450 MHz - 3550 MHz)	30
8.1 EQUIVALENT ISOTROPIC RADIATED POWER.....	30
8.2 RADIATED SPURIOUS EMISSIONS	42
8.3 PEAK-TO-AVERAGE RATIO	43
8.4 OCCUPIED BANDWIDTH	45
8.5 CONDUCTED SPURIOUS EMISSIONS	47
8.6 BAND EDGE	48
8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	49
9. TEST DATA (3700 MHz - 3980 MHz)	61
9.1 EQUIVALENT ISOTROPIC RADIATED POWER.....	61
9.2 RADIATED SPURIOUS EMISSIONS	73
9.3 PEAK-TO-AVERAGE RATIO	74
9.4 OCCUPIED BANDWIDTH	76
9.5 CONDUCTED SPURIOUS EMISSIONS	78
9.6 BAND EDGE	79
9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	80
10. TEST PLOTS(3450 MHz - 3550 MHz).....	92
11. TEST PLOTS(3700 MHz - 3980 MHz).....	425
12. ANNEX A_ TEST SETUP PHOTO.....	762

MEASUREMENT REPORT

1. GENERAL INFORMATION

Model(s):	SM-A176U
Additional Model(s)	SM-A176U1, SM-S176V
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))
Serial number:	Radiated : R3CY70RH3SM Conducted : R3CY70RH35D
Antenna Information	Please refer to the Antenna Specification document.

1.1. MAXIMUM OUTPUT POWER

1. 3450 MHz - 3550 MHz

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n77(78) (10)	3455.01 – 3544.99	8M66G7D	PI/2 BPSK	0.372	25.70
		8M68G7D	QPSK	0.358	25.54
		8M68W7D	16QAM	0.298	24.74
		8M67W7D	64QAM	0.200	23.01
		8M72W7D	256QAM	0.128	21.06
Sub6 n77(78) (15)	3457.50 – 3542.50	13M0G7D	PI/2 BPSK	0.366	25.63
		13M0G7D	QPSK	0.360	25.56
		13M0W7D	16QAM	0.297	24.73
		13M0W7D	64QAM	0.203	23.07
		12M9W7D	256QAM	0.129	21.12
Sub6 n77(78) (20)	3460.02 – 3540.00	18M0G7D	PI/2 BPSK	0.368	25.66
		18M0G7D	QPSK	0.366	25.64
		18M0W7D	16QAM	0.289	24.61
		18M0W7D	64QAM	0.207	23.17
		17M9W7D	256QAM	0.129	21.12
Sub6 n77(78) (25)	3462.50 – 3537.50	23M0G7D	PI/2 BPSK	0.388	25.89
		23M0G7D	QPSK	0.387	25.88
		23M0W7D	16QAM	0.315	24.98
		23M0W7D	64QAM	0.220	23.43
		23M0W7D	256QAM	0.135	21.30
Sub6 n77(78) (30)	3465.00 – 3534.99	26M9G7D	PI/2 BPSK	0.373	25.72
		27M0G7D	QPSK	0.371	25.69
		27M0W7D	16QAM	0.301	24.78
		26M9W7D	64QAM	0.205	23.12
		26M9W7D	256QAM	0.131	21.17
Sub6 n77(78) (40)	3470.01 – 3529.98	36M0G7D	PI/2 BPSK	0.374	25.73
		36M0G7D	QPSK	0.372	25.70
		35M9W7D	16QAM	0.292	24.65
		35M9W7D	64QAM	0.207	23.17
		35M9W7D	256QAM	0.131	21.16
Sub6 n77(78) (50)	3475.02 – 3525.00	46M0G7D	PI/2 BPSK	0.379	25.79
		46M0G7D	QPSK	0.373	25.72
		46M0W7D	16QAM	0.292	24.66
		46M2W7D	64QAM	0.210	23.22
		45M9W7D	256QAM	0.131	21.17
Sub6 n77(78) (60)	3480.00 – 3519.99	58M3G7D	PI/2 BPSK	0.384	25.84
		58M3G7D	QPSK	0.381	25.81
		58M1W7D	16QAM	0.310	24.91
		58M3W7D	64QAM	0.215	23.32
		58M1W7D	256QAM	0.134	21.28

Sub6 n77(78) (70)	3485.01 – 3514.98	64M8G7D	PI/2 BPSK	0.394	25.95
		64M7G7D	QPSK	0.385	25.86
		64M7W7D	16QAM	0.311	24.93
		64M8W7D	64QAM	0.223	23.48
		64M8W7D	256QAM	0.132	21.21
Sub6 n77(78) (80)	3490.02 – 3510.00	77M6G7D	PI/2 BPSK	0.402	26.04
		77M6G7D	QPSK	0.400	26.02
		77M5W7D	16QAM	0.320	25.05
		77M5W7D	64QAM	0.230	23.62
		77M5W7D	256QAM	0.141	21.50
Sub6 n77(78) (90)	3495.00 – 3504.99	87M3G7D	PI/2 BPSK	0.404	26.06
		87M2G7D	QPSK	0.402	26.04
		87M2W7D	16QAM	0.314	24.97
		87M3W7D	64QAM	0.224	23.51
		87M3W7D	256QAM	0.147	21.67
Sub6 n77(78) (100)	3500.01	96M9G7D	PI/2 BPSK	0.398	26.00
		97M1G7D	QPSK	0.397	25.99
		97M1W7D	16QAM	0.314	24.97
		96M7W7D	64QAM	0.228	23.57
		96M7W7D	256QAM	0.145	21.61

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	8M66G7D	PI/2 BPSK	0.356	25.52
		8M67G7D	QPSK	0.356	25.51
		8M66W7D	16QAM	0.279	24.45
		8M68W7D	64QAM	0.202	23.06
		8M70W7D	256QAM	0.124	20.92
Sub6 n77(78) (15)	3707.51 – 3972.48	12M9G7D	PI/2 BPSK	0.362	25.59
		13M0G7D	QPSK	0.361	25.58
		12M9W7D	16QAM	0.280	24.47
		13M0W7D	64QAM	0.206	23.14
		13M0W7D	256QAM	0.131	21.17
Sub6 n77(78) (20)	3710.01 – 3969.99	18M0G7D	PI/2 BPSK	0.371	25.69
		18M0G7D	QPSK	0.366	25.64
		17M9W7D	16QAM	0.290	24.63
		17M9W7D	64QAM	0.203	23.07
		17M9W7D	256QAM	0.125	20.98
Sub6 n77(78) (25)	3712.50 – 3967.50	23M0G7D	PI/2 BPSK	0.366	25.63
		23M0G7D	QPSK	0.363	25.60
		23M0W7D	16QAM	0.293	24.67
		23M0W7D	64QAM	0.203	23.08
		22M9W7D	256QAM	0.127	21.05
Sub6 n77(78) (30)	3715.02 – 3964.98	26M9G7D	PI/2 BPSK	0.371	25.69
		26M9G7D	QPSK	0.369	25.67
		26M9W7D	16QAM	0.304	24.83
		27M0W7D	64QAM	0.202	23.06
		26M9W7D	256QAM	0.136	21.32
Sub6 n77(78) (40)	3720.00 – 3960.00	35M9G7D	PI/2 BPSK	0.381	25.81
		36M0G7D	QPSK	0.380	25.80
		35M9W7D	16QAM	0.292	24.66
		35M9W7D	64QAM	0.210	23.22
		35M9W7D	256QAM	0.135	21.29
Sub6 n77(78) (50)	3725.10 – 3954.99	45M9G7D	PI/2 BPSK	0.374	25.73
		45M9G7D	QPSK	0.373	25.72
		45M9W7D	16QAM	0.297	24.73
		45M9W7D	64QAM	0.211	23.24
		45M9W7D	256QAM	0.127	21.05
Sub6 n77(78) (60)	3730.02 – 3949.98	58M3G7D	PI/2 BPSK	0.386	25.87
		58M2G7D	QPSK	0.383	25.83
		58M2W7D	16QAM	0.320	25.05
		58M1W7D	64QAM	0.214	23.30
		58M2W7D	256QAM	0.138	21.41

Sub6 n77(78) (70)	3735.00 – 3945.00	64M7G7D	PI/2 BPSK	0.397	25.99
		64M8G7D	QPSK	0.391	25.92
		64M8W7D	16QAM	0.324	25.10
		64M8W7D	64QAM	0.220	23.42
		64M9W7D	256QAM	0.139	21.43
Sub6 n77(78) (80)	3740.01 – 3939.99	77M4G7D	PI/2 BPSK	0.414	26.17
		77M6G7D	QPSK	0.406	26.08
		77M5W7D	16QAM	0.339	25.30
		77M4W7D	64QAM	0.228	23.57
		77M5W7D	256QAM	0.147	21.66
Sub6 n77(78) (90)	3745.02 – 3934.98	87M1G7D	PI/2 BPSK	0.429	26.32
		87M2G7D	QPSK	0.427	26.30
		87M2W7D	16QAM	0.355	25.50
		87M1W7D	64QAM	0.238	23.76
		87M2W7D	256QAM	0.153	21.84
Sub6 n77(78) (100)	3750.00 – 3930.00	96M8G7D	PI/2 BPSK	0.426	26.29
		96M8G7D	QPSK	0.425	26.28
		96M8W7D	16QAM	0.337	25.27
		96M7W7D	64QAM	0.234	23.69
		96M8W7D	256QAM	0.141	21.50

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

2.2. MEASURING INSTRUMENT CALIBRATION

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

2.3. TEST FACILITY

The Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, **Republic of Korea**
Detailed description of test facility was submitted to the Commission and accepted dated March 11, 2024 (Registration Number: KR0032).

2.4. EQUIPMENT

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

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

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

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

Test Description	Test Procedure Used
Occupied Bandwidth	- KDB 971168 D01 v03r01 – Section 4.3 - ANSI C63.26-2015 – Section 5.4.4
Band Edge	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Spurious and Harmonic Emissions at Antenna Terminal	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Conducted Output Power	- KDB 971168 D01 v03r01 - Section 5.2.4 - ANSI C63.26-2015 - Section 5.2.1 & 5.2.4.2
Peak- to- Average Ratio	- KDB 971168 D01 v03r01 – Section 5.7 - ANSI C63.26-2015 – Section 5.2.3.4
Frequency stability	- ANSI C63.26-2015 – Section 5.6
Radiated Power	- ANSI C63.26-2015 – Section 5.2.4.4 - KDB 971168 D01 v03r01 – Section 5.8
Radiated Spurious and Harmonic Emissions	- ANSI C63.26-2015 – Section 5.5.3 - KDB 971168 D01 v03r01 – Section 5.8

3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

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

Test Settings

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

Test Note

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

The power is calculated by the following formula;

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

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

3. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate gain value.
These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration
4. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
5. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method.

Test Settings

1. RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $> 2 \times$ 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;

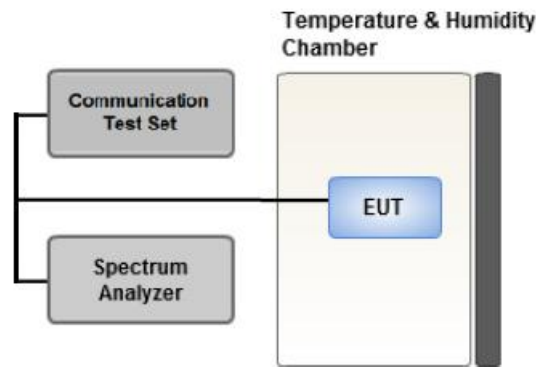
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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)

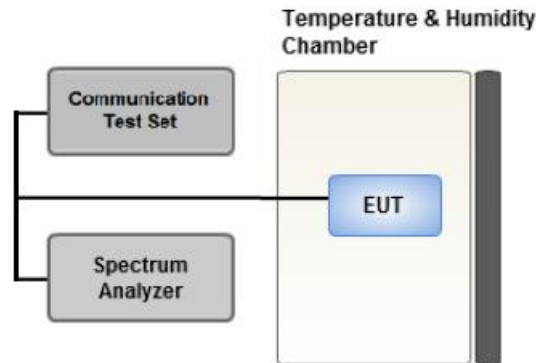
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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.

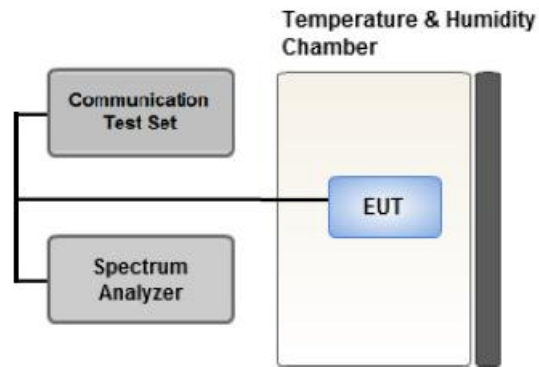
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

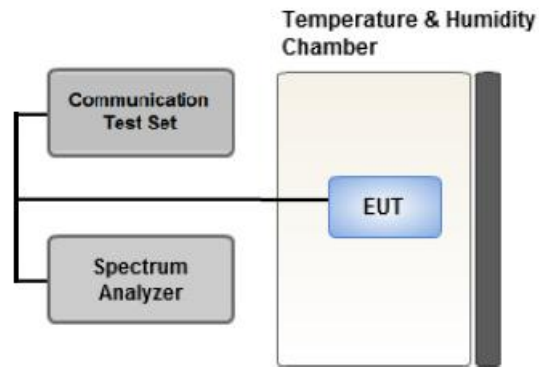
Test Overview

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 > (Number of Points) $\times$ (Symbol Period)
9. The trace was allowed to stabilize

Test Notes

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

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

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

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

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

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

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

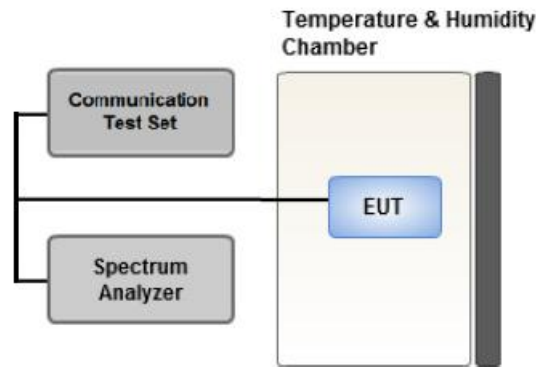
However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz.

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

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

Where Margin < 1 dB the emission level is either corrected by $10 \log(1 \text{ MHz}/ \text{RB})$ or the emission is integrated over a 1 MHz bandwidth to determine the final result. When using the integration method the integration window is either centered on the emission or, for emissions at the band edge, centered by an offset of 500 kHz from the block edge so that the integration window is the 1 MHz adjacent to the block edge.

3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015.

The frequency stability of the transmitter is measured by:

1. Temperature:

The temperature is varied from -30 °C to +50 °C in 10 °C increments using an environmental chamber.

2. Primary Supply Voltage:

- .- Unless otherwise specified, vary primary supply voltage from 85 % to 115 % of the nominal value for other than hand carried battery equipment.
- .- For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20 °C to provide a reference).
2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter.
Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10 °C intervals ranging from -30 °C to +50 °C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

3.9 WORST CASE(RADIATED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- NR n77 (3450 – 3550 MHz / 3700 – 3980 MHz) overlaps the entire frequency range of NR n78 (3450 - 3550 MHz / 3700 – 3800 MHz) and they have the same Tune-up power.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA, SRS
Worst case: SA
Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)
Worst case : Stand alone
- All simultaneous transmission scenarios of operation were investigated, and the test results showed no additional significant emissions relative to the least restrictive limit were observed.
Therefore, only the worst case(stand-alone) results were reported.
- All power classes were tested, and the results were reported for the worst case PC2. (PC2 Only)
- Radiated Spurious emissions are measured while operating in EN-DC mode with Sub 6 NR carrier as well as an LTE carrier (anchor).
All EN-DC mode of operation (=anchor) were investigated and the test results were measured No Peak Found.
The test results which are attenuated more than 20 dB below the permissible value, so it was not reported.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.
- In the case of radiated spurious emissions, all bandwidth of operation were investigated and the worst case bandwidth results are reported.
(Worst case : 90 MHz(3450 MHz – 3550 MHz), 90 MHz (3700 MHz – 3980 MHz))

[3450 MHz - 3550 MHz Worst case]

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

[3700 MHz - 3980 MHz Worst case]

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

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
 - Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
(Worst case: PI/2 BPSK)
 - NR n77 (3450 – 3550 MHz / 3700 – 3980 MHz) overlaps the entire frequency range of NR n78 (3450 -3550 MHz / 3700 – 3800 MHz) and they have the same Tune-up power.
 - All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA, SRS
Worst case: SA
 - All power classes were tested, and the results were reported for the worst case PC2. (PC2 Only)
 - 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	04/17/2026	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Loop Antenna(9 kHz~30 MHz)	FMZB1513	Rohde & Schwarz	1513-175	01/06/2027	Biennial
Bilog Antenna	VULB9160	Schwarzbeck	3150	03/05/2027	Biennial
Hybrid Antenna	VULB9160	Schwarzbeck	760	02/17/2027	Biennial
RF Switching System	FBSR-06B (1G HPF + LNA)	T&M SYSTEM	F3L1	05/08/2026	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/08/2026	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/08/2026	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/08/2026	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
DC Power Supply	E3632A	Hewlett Packard	MY40004427	08/11/2026	Annual
Power Splitter(DC~26.5 GHz)	11667B	Hewlett Packard	11275	02/04/2026	Annual
Chamber	SU-642	ESPEC	93008124	02/11/2026	Annual
Signal Analyzer(10 Hz~26.5 GHz)	N9020A	Agilent	MY51110063	03/21/2026	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/10/2026	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	05/27/2026	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	07/29/2026	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/14/2026	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/08/2026	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/14/2026	Annual
UXM 5G Wireless Test Platform	E7515B	KEYSIGHT	MY60101126	02/10/2026	Annual
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/05/2026	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/22/2026	Annual
Automation Software	FCC 2G/3G/4G Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC NR Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC LTE Radiated	HCT CO., LTD	-	-	-
Automation Software	FCC NR Radiated	HCT CO., LTD	-	-	-

Note:

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

5. MEASUREMENT UNCERTAINTY

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

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{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)	5.68 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.75 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.82 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (Above 40 GHz)	5.58 (Confidence level about 95 %, $k=2$)

6. SUMMARY OF TEST RESULTS

-. The decision rule applies 'simple acceptance'

6.1 Test Condition : Conducted Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Occupied Bandwidth	§2.1049	N/A	PASS
Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§2.1051, §27.53(n)(2), §27.53(l)(2)	< -13 dBm	PASS
Conducted Output Power	§2.1046	N/A	Note1
Peak- to- Average Ratio	§27.50(k)(4), §27.50(j)(4)	< 13 dB	PASS
Frequency stability / variation of ambient temperature	§2.1055, §27.54	Emission must remain in band	PASS

Note:

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

6.2 Test Condition : Radiated Test

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

Note:

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

7. SAMPLE CALCULATION

7.1 ERP Sample Calculation

Ch./ Freq.		Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBd)	C.L	Pol.	ERP	
channel	Freq.(MHz)						W	dBm
128	824.20	-21.37	38.40	-10.61	0.95	H	0.483	26.84

$$\text{ERP} = \text{Substitute LEVEL(dBm)} + \text{Ant. Gain} - \text{CL(Cable Loss)}$$

- 1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
- 2) During the test, the turn table is rotated until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power.

7.2 EIRP Sample Calculation

Ch./ Freq.		Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	EIRP	
channel	Freq.(MHz)						W	dBm
20175	1,732.50	-15.75	18.45	9.90	1.76	H	0.456	26.59

$$\text{EIRP} = \text{Substitute LEVEL(dBm)} + \text{Ant. Gain} - \text{CL(Cable Loss)}$$

- 1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
- 2) During the test, the turn table is rotated until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of equivalent isotropic radiated power.

7.3. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW
GSM BW = 249 kHz
G = Phase Modulation
X = Cases not otherwise covered
W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W
GSM BW = 249 kHz
G = Phase Modulation
7 = Quantized/Digital Info
W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W
WCDMA BW = 4.17 MHz
F = Frequency Modulation
9 = Composite Digital Info
W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D
LTE BW = 4.48 MHz
G = Phase Modulation
7 = Quantized/Digital Info
D = Data transmission; telemetry; telecommand

QAM Modulation

Emission Designator = 4M48W7D
LTE BW = 4.48 MHz
W = Amplitude/Angle Modulated
7 = Quantized/Digital Info
D = Data transmission; telemetry; telecommand

8. TEST DATA(3450 MHz - 3550 MHz)

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3455.01	Sub6 n77(78)/ 10 MHz [30 kHz]	PI/2 BPSK	-22.41	16.24	11.96	3.02	H	< 1.00	0.330	25.18	1	1
		QPSK	-22.43	16.22	11.96	3.02	H		0.328	25.16		
		16-QAM	-23.53	15.12	11.96	3.02	H		0.255	24.06		
		64-QAM	-25.01	13.64	11.96	3.02	H		0.181	22.58		
		256-QAM	-27.17	11.48	11.96	3.02	H		0.110	20.42		
3500.01		PI/2 BPSK	-22.43	16.47	12.04	3.06	H		0.351	25.45	1	12
		QPSK	-22.60	16.30	12.04	3.06	H		0.337	25.28		
		16-QAM	-23.39	15.51	12.04	3.06	H		0.281	24.49		
		64-QAM	-24.98	13.92	12.04	3.06	H		0.195	22.90		
		256-QAM	-26.99	11.91	12.04	3.06	H		0.123	20.89		
3544.99		PI/2 BPSK	-21.94	16.75	12.04	3.09	H		0.372	25.70	1	12
		QPSK	-22.10	16.59	12.04	3.09	H		0.358	25.54		
		16-QAM	-22.90	15.79	12.04	3.09	H		0.298	24.74		
		64-QAM	-24.63	14.06	12.04	3.09	H		0.200	23.01		
		256-QAM	-26.58	12.11	12.04	3.09	H		0.128	21.06		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3457.50	Sub6 n77(78)/ 15 MHz [30 kHz]	PI/2 BPSK	-22.44	16.20	12.00	3.02	H	< 1.00	0.330	25.18	1	1
		QPSK	-22.48	16.16	12.00	3.02	H		0.327	25.14		
		16-QAM	-23.34	15.30	12.00	3.02	H		0.268	24.28		
		64-QAM	-25.04	13.60	12.00	3.02	H		0.181	22.58		
		256-QAM	-27.01	11.63	12.00	3.02	H		0.115	20.61		
3500.01		PI/2 BPSK	-22.38	16.52	12.04	3.06	H		0.355	25.50	1	36
		QPSK	-22.40	16.50	12.04	3.06	H		0.353	25.48		
		16-QAM	-23.38	15.52	12.04	3.06	H		0.282	24.50		
		64-QAM	-24.88	14.02	12.04	3.06	H		0.200	23.00		
		256-QAM	-27.14	11.76	12.04	3.06	H		0.119	20.74		
3542.50		PI/2 BPSK	-22.01	16.68	12.04	3.09	H		0.366	25.63	1	36
		QPSK	-22.08	16.61	12.04	3.09	H		0.360	25.56		
		16-QAM	-22.91	15.78	12.04	3.09	H		0.297	24.73		
		64-QAM	-24.57	14.12	12.04	3.09	H		0.203	23.07		
		256-QAM	-26.52	12.17	12.04	3.09	H		0.129	21.12		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3460.02		PI/2 BPSK	-22.42	16.22	12.00	3.02	H	< 1.00	0.331	25.20	1	25
		QPSK	-22.56	16.08	12.00	3.02	H		0.321	25.06		
		16-QAM	-23.59	15.05	12.00	3.02	H		0.253	24.03		
		64-QAM	-25.15	13.49	12.00	3.02	H		0.177	22.47		
		256-QAM	-27.02	11.62	12.00	3.02	H		0.115	20.60		
3500.01	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-22.47	16.43	12.04	3.06	H	< 1.00	0.348	25.41	1	49
		QPSK	-22.48	16.42	12.04	3.06	H		0.347	25.40		
		16-QAM	-23.55	15.35	12.04	3.06	H		0.271	24.33		
		64-QAM	-25.04	13.86	12.04	3.06	H		0.192	22.84		
		256-QAM	-26.87	12.03	12.04	3.06	H		0.126	21.01		
3540.00		PI/2 BPSK	-21.97	16.71	12.04	3.09	H	< 1.00	0.368	25.66	1	49
		QPSK	-21.99	16.69	12.04	3.09	H		0.366	25.64		
		16-QAM	-23.02	15.66	12.04	3.09	H		0.289	24.61		
		64-QAM	-24.46	14.22	12.04	3.09	H		0.207	23.17		
		256-QAM	-26.51	12.17	12.04	3.09	H		0.129	21.12		

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
3462.500	Sub6 n77(78)/ 25 MHz [30 kHz]	PI/2 BPSK	-22.23	16.45	12.02	3.03	H	<1.00	0.350	25.44	1	1
		QPSK	-22.27	16.41	12.02	3.03	H		0.347	25.40		
		16-QAM	-23.20	15.48	12.02	3.03	H		0.280	24.47		
		64-QAM	-24.62	14.06	12.02	3.03	H		0.202	23.05		
		256-QAM	-26.73	11.95	12.02	3.03	H		0.124	20.94		
3500.010		PI/2 BPSK	-22.31	16.59	12.04	3.06	H		0.361	25.57	1	63
		QPSK	-22.34	16.56	12.04	3.06	H		0.358	25.54		
		16-QAM	-23.35	15.55	12.04	3.06	H		0.284	24.53		
		64-QAM	-24.71	14.19	12.04	3.06	H		0.207	23.17		
		256-QAM	-26.80	12.10	12.04	3.06	H		0.128	21.08		
3537.500		PI/2 BPSK	-21.74	16.94	12.04	3.09	H		0.388	25.89	1	63
		QPSK	-21.75	16.93	12.04	3.09	H		0.387	25.88		
		16-QAM	-22.65	16.03	12.04	3.09	H		0.315	24.98		
		64-QAM	-24.20	14.48	12.04	3.09	H		0.220	23.43		
		256-QAM	-26.33	12.35	12.04	3.09	H		0.135	21.30		

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	-22.49	16.19	12.02	3.03	H	< 1.00	0.330	25.18	1	39
		QPSK	-22.50	16.18	12.02	3.03	H		0.329	25.17		
		16-QAM	-23.57	15.11	12.02	3.03	H		0.257	24.10		
		64-QAM	-25.11	13.57	12.02	3.03	H		0.180	22.56		
		256-QAM	-27.01	11.67	12.02	3.03	H		0.116	20.66		
3500.01	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-22.34	16.56	12.04	3.06	H	< 1.00	0.358	25.54	1	76
		QPSK	-22.39	16.51	12.04	3.06	H		0.354	25.49		
		16-QAM	-23.40	15.50	12.04	3.06	H		0.281	24.48		
		64-QAM	-24.96	13.94	12.04	3.06	H		0.196	22.92		
		256-QAM	-26.87	12.03	12.04	3.06	H		0.126	21.01		
3534.99		PI/2 BPSK	-21.93	16.77	12.04	3.09	H	< 1.00	0.373	25.72	1	76
		QPSK	-21.96	16.74	12.04	3.09	H		0.371	25.69		
		16-QAM	-22.87	15.83	12.04	3.09	H		0.301	24.78		
		64-QAM	-24.53	14.17	12.04	3.09	H		0.205	23.12		
		256-QAM	-26.48	12.22	12.04	3.09	H		0.131	21.17		

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	-22.51	16.21	12.04	3.04	H	< 1.00	0.332	25.21	1	1
		QPSK	-22.53	16.19	12.04	3.04	H		0.330	25.19		
		16-QAM	-23.52	15.20	12.04	3.04	H		0.263	24.20		
		64-QAM	-24.91	13.81	12.04	3.04	H		0.191	22.81		
		256-QAM	-26.98	11.74	12.04	3.04	H		0.119	20.74		
3500.01	Sub6 n77(78)/ 40 MHz [30 kHz]	PI/2 BPSK	-22.38	16.52	12.04	3.06	H	< 1.00	0.355	25.50	1	104
		QPSK	-22.41	16.49	12.04	3.06	H		0.352	25.47		
		16-QAM	-23.48	15.42	12.04	3.06	H		0.275	24.40		
		64-QAM	-24.95	13.95	12.04	3.06	H		0.196	22.93		
		256-QAM	-26.92	11.98	12.04	3.06	H		0.125	20.96		
3529.98		PI/2 BPSK	-21.94	16.78	12.04	3.09	H	< 1.00	0.374	25.73	1	104
		QPSK	-21.97	16.75	12.04	3.09	H		0.372	25.70		
		16-QAM	-23.02	15.70	12.04	3.09	H		0.292	24.65		
		64-QAM	-24.50	14.22	12.04	3.09	H		0.207	23.17		
		256-QAM	-26.51	12.21	12.04	3.09	H		0.131	21.16		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3475.02		PI/2 BPSK	-22.44	16.38	12.04	3.05	H	< 1.00	0.344	25.37	1	66
		QPSK	-22.49	16.33	12.04	3.05	H		0.340	25.32		
		16-QAM	-23.46	15.36	12.04	3.05	H		0.272	24.35		
		64-QAM	-25.21	13.61	12.04	3.05	H		0.182	22.60		
		256-QAM	-26.97	11.85	12.04	3.05	H		0.121	20.84		
3500.01	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-22.34	16.56	12.04	3.06	H	< 1.00	0.358	25.54	1	131
		QPSK	-22.36	16.54	12.04	3.06	H		0.356	25.52		
		16-QAM	-23.34	15.56	12.04	3.06	H		0.284	24.54		
		64-QAM	-24.82	14.08	12.04	3.06	H		0.202	23.06		
		256-QAM	-26.87	12.03	12.04	3.06	H		0.126	21.01		
3525.00		PI/2 BPSK	-21.94	16.83	12.04	3.08	H	< 1.00	0.379	25.79	1	131
		QPSK	-22.01	16.76	12.04	3.08	H		0.373	25.72		
		16-QAM	-23.07	15.70	12.04	3.08	H		0.292	24.66		
		64-QAM	-24.51	14.26	12.04	3.08	H		0.210	23.22		
		256-QAM	-26.56	12.21	12.04	3.08	H		0.131	21.17		

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	-22.46	16.45	12.04	3.05	H	< 1.00	0.350	25.44	1	160
		QPSK	-22.48	16.43	12.04	3.05	H		0.348	25.42		
		16-QAM	-23.51	15.40	12.04	3.05	H		0.275	24.39		
		64-QAM	-24.97	13.94	12.04	3.05	H		0.196	22.93		
		256-QAM	-27.16	11.75	12.04	3.05	H		0.119	20.74		
3500.01	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-22.26	16.64	12.04	3.06	H	< 1.00	0.365	25.62	1	160
		QPSK	-22.27	16.63	12.04	3.06	H		0.364	25.61		
		16-QAM	-23.31	15.59	12.04	3.06	H		0.286	24.57		
		64-QAM	-24.95	13.95	12.04	3.06	H		0.196	22.93		
		256-QAM	-26.96	11.94	12.04	3.06	H		0.124	20.92		
3519.99		PI/2 BPSK	-21.94	16.88	12.04	3.08	H	< 1.00	0.384	25.84	1	160
		QPSK	-21.97	16.85	12.04	3.08	H		0.381	25.81		
		16-QAM	-22.87	15.95	12.04	3.08	H		0.310	24.91		
		64-QAM	-24.46	14.36	12.04	3.08	H		0.215	23.32		
		256-QAM	-26.50	12.32	12.04	3.08	H		0.134	21.28		

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	-22.38	16.48	12.04	3.06	H	< 1.00	0.352	25.46	1	187
		QPSK	-22.42	16.44	12.04	3.06	H		0.348	25.42		
		16-QAM	-23.47	15.39	12.04	3.06	H		0.274	24.37		
		64-QAM	-24.98	13.88	12.04	3.06	H		0.193	22.86		
		256-QAM	-26.81	12.05	12.04	3.06	H		0.127	21.03		
3500.01		PI/2 BPSK	-22.14	16.76	12.04	3.06	H		0.375	25.74	1	187
		QPSK	-22.20	16.70	12.04	3.06	H		0.370	25.68		
		16-QAM	-23.08	15.82	12.04	3.06	H		0.302	24.80		
		64-QAM	-24.68	14.22	12.04	3.06	H		0.209	23.20		
		256-QAM	-26.72	12.18	12.04	3.06	H		0.131	21.16		
3514.98		PI/2 BPSK	-21.89	16.98	12.04	3.07	H		0.394	25.95	1	187
		QPSK	-21.98	16.89	12.04	3.07	H		0.385	25.86		
		16-QAM	-22.91	15.96	12.04	3.07	H		0.311	24.93		
		64-QAM	-24.36	14.51	12.04	3.07	H		0.223	23.48		
		256-QAM	-26.63	12.24	12.04	3.07	H		0.132	21.21		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3490.02		PI/2 BPSK	-22.17	16.63	12.04	3.06	H	< 1.00	0.364	25.61	1	215
		QPSK	-22.18	16.62	12.04	3.06	H		0.363	25.60		
		16-QAM	-23.11	15.69	12.04	3.06	H		0.293	24.67		
		64-QAM	-24.73	14.07	12.04	3.06	H		0.202	23.05		
		256-QAM	-26.88	11.92	12.04	3.06	H		0.123	20.90		
3500.01	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-22.03	16.87	12.04	3.06	H	< 1.00	0.385	25.85	1	215
		QPSK	-22.10	16.80	12.04	3.06	H		0.378	25.78		
		16-QAM	-22.99	15.91	12.04	3.06	H		0.308	24.89		
		64-QAM	-24.52	14.38	12.04	3.06	H		0.217	23.36		
		256-QAM	-26.53	12.37	12.04	3.06	H		0.136	21.35		
3510.00		PI/2 BPSK	-21.86	17.07	12.04	3.07	H	< 1.00	0.402	26.04	1	215
		QPSK	-21.88	17.05	12.04	3.07	H		0.400	26.02		
		16-QAM	-22.85	16.08	12.04	3.07	H		0.320	25.05		
		64-QAM	-24.28	14.65	12.04	3.07	H		0.230	23.62		
		256-QAM	-26.40	12.53	12.04	3.07	H		0.141	21.50		

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	-21.96	16.89	12.04	3.06	H	< 1.00	0.386	25.87	1	243
		QPSK	-22.02	16.83	12.04	3.06	H		0.381	25.81		
		16-QAM	-22.95	15.90	12.04	3.06	H		0.308	24.88		
		64-QAM	-24.63	14.22	12.04	3.06	H		0.209	23.20		
		256-QAM	-26.62	12.23	12.04	3.06	H		0.132	21.21		
3500.01	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-21.86	17.04	12.04	3.06	H	< 1.00	0.400	26.02	1	243
		QPSK	-21.98	16.92	12.04	3.06	H		0.389	25.90		
		16-QAM	-23.00	15.90	12.04	3.06	H		0.308	24.88		
		64-QAM	-24.49	14.41	12.04	3.06	H		0.218	23.39		
		256-QAM	-26.41	12.49	12.04	3.06	H		0.140	21.47		
3504.99		PI/2 BPSK	-21.83	17.09	12.04	3.07	H	< 1.00	0.404	26.06	1	243
		QPSK	-21.85	17.07	12.04	3.07	H		0.402	26.04		
		16-QAM	-22.92	16.00	12.04	3.07	H		0.314	24.97		
		64-QAM	-24.38	14.54	12.04	3.07	H		0.224	23.51		
		256-QAM	-26.22	12.70	12.04	3.07	H		0.147	21.67		

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]	Pl/2 BPSK	-21.88	17.02	12.04	3.06	H	< 1.00	0.398	26.00	1	271
		QPSK	-21.89	17.01	12.04	3.06	H		0.397	25.99		
		16-QAM	-22.91	15.99	12.04	3.06	H		0.314	24.97		
		64-QAM	-24.31	14.59	12.04	3.06	H		0.228	23.57		
		256-QAM	-26.27	12.63	12.04	3.06	H		0.145	21.61		

8.2 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
633000 (3495.00)	6 990.00	-61.02	11.97	-54.48	4.58	H	-47.09	-13.00	1	243
	10 485.00	-62.72	10.88	-51.98	5.64	H	-46.74	-13.00		
	13 980.00	-56.69	11.93	-46.62	6.64	H	-41.33	-13.00		
633334 (3500.01)	7 000.02	-59.20	11.92	-52.53	4.61	V	-45.22	-13.00	1	243
	10 500.03	-62.89	10.88	-51.66	5.65	H	-46.43	-13.00		
	14 000.04	-58.95	11.88	-49.35	6.63	H	-44.10	-13.00		
636666 (3504.99)	7 009.98	-61.84	11.87	-55.08	4.61	V	-47.82	-13.00	1	243
	10 514.97	-61.51	10.88	-50.49	5.62	V	-45.23	-13.00		
	14 019.96	-56.32	11.84	-46.57	6.63	V	-41.36	-13.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)	Limit (dB)
Sub6 n77(78)	10 MHz	3500.01	BPSK	Full RB	0	4.30	13.00
			QPSK			5.49	
			16-QAM			6.19	
			64-QAM			6.34	
			256-QAM			6.64	
	15 MHz		BPSK			4.28	
			QPSK			5.45	
			16-QAM			6.20	
			64-QAM			6.28	
			256-QAM			6.56	
	20 MHz		BPSK			5.19	
			QPSK			5.57	
			16-QAM			6.16	
			64-QAM			6.34	
			256-QAM			6.54	
	25 MHz		BPSK			4.82	
			QPSK			5.53	
			16-QAM			6.30	
			64-QAM			6.41	
			256-QAM			6.52	
	30 MHz		BPSK			4.51	
			QPSK			5.50	
			16-QAM			6.27	
			64-QAM			6.31	
			256-QAM			6.62	
	40 MHz		BPSK			5.70	
			QPSK			5.94	
			16-QAM			6.40	
			64-QAM			6.47	

	50 MHz	256-QAM	6.74
		BPSK	4.35
		QPSK	5.48
		16-QAM	6.23
		64-QAM	6.34
	60 MHz	256-QAM	6.56
		BPSK	4.51
		QPSK	5.48
		16-QAM	6.24
		64-QAM	6.34
	70 MHz	256-QAM	6.49
		BPSK	4.72
		QPSK	5.51
		16-QAM	6.29
		64-QAM	6.36
	80 MHz	256-QAM	6.64
		BPSK	4.39
		QPSK	5.52
		16-QAM	6.23
		64-QAM	6.35
	90 MHz	256-QAM	6.54
		BPSK	5.62
		QPSK	5.88
		16-QAM	6.37
		64-QAM	6.43
	100 MHz	256-QAM	6.68
		BPSK	4.42
		QPSK	5.54
		16-QAM	6.28
		64-QAM	6.34
		256-QAM	6.56

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 93 ~ 152.

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	8.6589
			QPSK			8.6797
			16-QAM			8.6817
			64-QAM			8.6722
			256-QAM			8.7150
	15 MHz		BPSK			13.006
			QPSK			12.971
			16-QAM			13.009
			64-QAM			13.020
			256-QAM			12.928
	20 MHz		BPSK			18.025
			QPSK			17.993
			16-QAM			17.973
			64-QAM			17.988
			256-QAM			17.928
	25 MHz		BPSK			22.983
			QPSK			23.040
			16-QAM			22.999
			64-QAM			22.989
			256-QAM			22.985
	30 MHz		BPSK			26.938
			QPSK			27.005
			16-QAM			26.968
			64-QAM			26.914
			256-QAM			26.947
	40 MHz		BPSK			35.972
			QPSK			35.986
			16-QAM			35.936
			64-QAM			35.945

	50 MHz	256-QAM	35.897
		BPSK	45.982
		QPSK	45.979
		16-QAM	46.017
		64-QAM	46.178
		256-QAM	45.892
	60 MHz	BPSK	58.311
		QPSK	58.285
		16-QAM	58.121
		64-QAM	58.310
		256-QAM	58.124
	70 MHz	BPSK	64.762
		QPSK	64.692
		16-QAM	64.746
		64-QAM	64.796
		256-QAM	64.786
	80 MHz	BPSK	77.595
		QPSK	77.614
		16-QAM	77.461
		64-QAM	77.541
		256-QAM	77.532
	90 MHz	BPSK	87.277
		QPSK	87.215
		16-QAM	87.161
		64-QAM	87.346
		256-QAM	87.299
	100 MHz	BPSK	96.927
		QPSK	97.092
		16-QAM	97.059
		64-QAM	96.735
		256-QAM	96.721

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 153 ~ 212.

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	9.6810	30.315	-64.174	-33.859	-13.00
		3500.010	8.8734	30.315	-63.831	-33.516	
		3544.980	9.3918	30.315	-64.409	-34.094	
	15	3457.500	9.0529	30.315	-63.748	-33.433	
		3500.010	8.2752	30.315	-63.323	-33.008	
		3542.490	9.6810	30.315	-63.522	-33.207	
	20	3460.020	7.6371	30.315	-62.769	-32.454	
		3500.010	6.0619	30.315	-63.413	-33.098	
		3540.000	4.9851	29.722	-64.036	-34.314	
	25	3462.510	5.9821	30.315	-64.343	-34.028	
		3500.010	4.9253	29.722	-63.158	-33.436	
		3537.480	8.2652	30.315	-62.669	-32.354	
	30	3465.000	4.5664	29.722	-63.721	-33.999	
		3500.010	4.9352	29.722	-64.005	-34.283	
		3534.990	6.0519	30.315	-63.642	-33.327	
	40	3470.010	8.3948	30.315	-63.677	-33.362	
		3500.010	9.4417	30.315	-63.610	-33.295	
		3529.980	4.2673	29.722	-63.357	-33.635	
	50	3475.020	6.0319	30.315	-62.526	-32.211	
		3500.010	9.1326	30.315	-62.943	-32.628	
		3525.000	9.9003	30.315	-63.366	-33.051	
	60	3480.000	8.8136	30.315	-63.625	-33.310	
		3500.010	9.4816	30.315	-64.105	-33.790	
		3519.990	4.6461	29.722	-63.733	-34.011	
	70	3485.010	6.9093	30.315	-63.299	-32.984	
		3500.010	4.2174	29.722	-63.592	-33.870	
		3514.980	9.1326	30.315	-63.743	-33.428	
	80	3490.020	9.1625	30.315	-63.402	-33.087	
		3500.010	8.8535	30.315	-63.540	-33.225	
		3510.000	7.9960	30.315	-63.630	-33.315	
	90	3495.000	4.8854	29.722	-63.025	-33.303	
		3500.010	5.1945	30.315	-63.447	-33.132	
		3504.990	9.9900	30.315	-64.056	-33.741	
	100	3500.010	4.9452	29.722	-63.911	-34.189	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 213 ~ 280.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
 - Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter
3. Factor(dB)

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.012
1 – 5	29.722
5 – 10	30.315
10 – 15	30.840
15 – 20	31.213
Above 20	31.855

8.6 BAND EDGE

1. Plots of the EUT's Band Edge are shown Page 281 ~ 424.
2. Duty Cycle factor already applied on the factor.
 - Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter
 - Result(dBm) = Reading + Factor
 - Duty Cycle Factor(dB) = 6.990

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- BandWidth: 10 MHz
- Voltage(100 %): 3.880 VDC
- Batt. Endpoint: 3.400 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 009 994	0.0	0.000 000	0.000
	100 %	-30	3455 010 002	8.3	0.000 000	0.002
	100 %	-20	3455 009 997	3.0	0.000 000	0.001
	100 %	-10	3455 009 999	5.7	0.000 000	0.002
	100 %	0	3455 010 001	7.4	0.000 000	0.002
	100 %	+10	3455 009 996	2.3	0.000 000	0.001
	100 %	+30	3455 009 995	1.5	0.000 000	0.000
	100 %	+40	3455 009 999	5.1	0.000 000	0.001
	100 %	+50	3455 009 999	5.4	0.000 000	0.002
	Batt. Endpoint	+20	3455 009 992	-1.6	0.000 000	0.000
3544.980	100 %	+20(Ref)	3544 980 006	0.0	0.000 000	0.000
	100 %	-30	3544 980 006	-0.5	0.000 000	0.000
	100 %	-20	3544 980 006	-0.1	0.000 000	0.000
	100 %	-10	3544 980 002	-4.0	0.000 000	-0.001
	100 %	0	3544 980 007	1.3	0.000 000	0.000
	100 %	+10	3544 980 011	5.1	0.000 000	0.001
	100 %	+30	3544 980 010	3.6	0.000 000	0.001
	100 %	+40	3544 980 004	-2.7	0.000 000	-0.001
	100 %	+50	3544 980 004	-1.9	0.000 000	-0.001
	Batt. Endpoint	+20	3544 980 009	2.5	0.000 000	0.001

- BandWidth: 15 MHz
- Voltage(100 %): 3.880 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 500 001	1.7	0.000 000	0.000
	100 %	-20	3457 499 997	-2.6	0.000 000	-0.001
	100 %	-10	3457 499 999	-0.3	0.000 000	0.000
	100 %	0	3457 499 999	-0.6	0.000 000	0.000
	100 %	+10	3457 500 001	1.0	0.000 000	0.000
	100 %	+30	3457 499 998	-1.5	0.000 000	0.000
	100 %	+40	3457 500 000	0.0	0.000 000	0.000
	100 %	+50	3457 500 000	0.0	0.000 000	0.000
	Batt. Endpoint	+20	3457 500 001	1.3	0.000 000	0.000
3542.490	100 %	+20(Ref)	3542 489 997	0.0	0.000 000	0.000
	100 %	-30	3542 489 990	-7.0	0.000 000	-0.002
	100 %	-20	3542 489 997	-0.5	0.000 000	0.000
	100 %	-10	3542 489 989	-7.8	0.000 000	-0.002
	100 %	0	3542 489 990	-7.2	0.000 000	-0.002
	100 %	+10	3542 489 994	-3.0	0.000 000	-0.001
	100 %	+30	3542 489 990	-7.3	0.000 000	-0.002
	100 %	+40	3542 489 993	-4.4	0.000 000	-0.001
	100 %	+50	3542 489 996	-1.0	0.000 000	0.000
	Batt. Endpoint	+20	3542 490 001	3.9	0.000 000	0.001

- BandWidth: 20 MHz
- Voltage(100 %): 3.880 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 019 998	0.0	0.000 000	0.000
	100 %	-30	3460 019 998	-0.3	0.000 000	0.000
	100 %	-20	3460 020 000	1.5	0.000 000	0.000
	100 %	-10	3460 019 995	-3.1	0.000 000	-0.001
	100 %	0	3460 019 995	-2.9	0.000 000	-0.001
	100 %	+10	3460 019 996	-2.3	0.000 000	-0.001
	100 %	+30	3460 019 999	0.6	0.000 000	0.000
	100 %	+40	3460 020 003	5.2	0.000 000	0.001
	100 %	+50	3460 019 997	-1.4	0.000 000	0.000
	Batt. Endpoint	+20	3460 020 000	1.6	0.000 000	0.000
3540.000	100 %	+20(Ref)	3540 000 000	0.0	0.000 000	0.000
	100 %	-30	3539 999 996	-3.4	0.000 000	-0.001
	100 %	-20	3539 999 999	-0.6	0.000 000	0.000
	100 %	-10	3540 000 002	2.1	0.000 000	0.001
	100 %	0	3539 999 997	-2.5	0.000 000	-0.001
	100 %	+10	3540 000 003	2.8	0.000 000	0.001
	100 %	+30	3539 999 998	-1.2	0.000 000	0.000
	100 %	+40	3540 000 002	2.1	0.000 000	0.001
	100 %	+50	3539 999 997	-2.2	0.000 000	-0.001
	Batt. Endpoint	+20	3539 999 992	-8.2	0.000 000	-0.002

- BandWidth: 25 MHz
- Voltage(100 %): 3.880 VDC
- Batt. Endpoint: 3.400 VDC
- LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3462.510	100 %	+20(Ref)	3462 509 997	0.0	0.000 000	0.000
	100 %	-30	3462 509 998	1.5	0.000 000	0.000
	100 %	-20	3462 510 002	4.8	0.000 000	0.001
	100 %	-10	3462 509 991	-5.6	0.000 000	-0.002
	100 %	0	3462 509 992	-4.7	0.000 000	-0.001
	100 %	+10	3462 509 996	-1.3	0.000 000	0.000
	100 %	+30	3462 509 995	-2.0	0.000 000	-0.001
	100 %	+40	3462 509 991	-5.7	0.000 000	-0.002
	100 %	+50	3462 509 993	-3.7	0.000 000	-0.001
	Batt. Endpoint	+20	3462 509 996	-1.2	0.000 000	0.000
3537.480	100 %	+20(Ref)	3537 479 994	0.0	0.000 000	0.000
	100 %	-30	3537 479 993	-0.7	0.000 000	0.000
	100 %	-20	3537 479 987	-7.2	0.000 000	-0.002
	100 %	-10	3537 479 997	3.0	0.000 000	0.001
	100 %	0	3537 479 995	0.5	0.000 000	0.000
	100 %	+10	3537 479 987	-6.6	0.000 000	-0.002
	100 %	+30	3537 479 987	-6.9	0.000 000	-0.002
	100 %	+40	3537 479 989	-5.3	0.000 000	-0.001
	100 %	+50	3537 479 991	-3.2	0.000 000	-0.001
	Batt. Endpoint	+20	3537 479 987	-6.8	0.000 000	-0.002

- BandWidth: 30 MHz
- Voltage(100 %): 3.880 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)	3465 000 001	0.0	0.000 000	0.000
	100 %	-30	3465 000 002	0.7	0.000 000	0.000
	100 %	-20	3465 000 006	4.9	0.000 000	0.001
	100 %	-10	3465 000 000	-1.9	0.000 000	-0.001
	100 %	0	3465 000 002	0.1	0.000 000	0.000
	100 %	+10	3465 000 008	6.8	0.000 000	0.002
	100 %	+30	3465 000 000	-1.8	0.000 000	-0.001
	100 %	+40	3465 000 007	5.9	0.000 000	0.002
	100 %	+50	3465 000 001	-0.7	0.000 000	0.000
	Batt. Endpoint	+20	3465 000 007	5.2	0.000 000	0.001
3534.990	100 %	+20(Ref)	3534 990 000	0.0	0.000 000	0.000
	100 %	-30	3534 990 008	8.2	0.000 000	0.002
	100 %	-20	3534 990 004	4.1	0.000 000	0.001
	100 %	-10	3534 990 001	1.4	0.000 000	0.000
	100 %	0	3534 990 007	7.3	0.000 000	0.002
	100 %	+10	3534 990 003	2.8	0.000 000	0.001
	100 %	+30	3534 990 009	8.8	0.000 000	0.002
	100 %	+40	3534 990 005	5.0	0.000 000	0.001
	100 %	+50	3534 990 007	7.3	0.000 000	0.002
	Batt. Endpoint	+20	3534 990 008	7.8	0.000 000	0.002

- BandWidth: 40 MHz
- Voltage(100 %): 3.880 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 009 998	0.0	0.000 000	0.000
	100 %	-30	3470 009 999	1.0	0.000 000	0.000
	100 %	-20	3470 009 997	-0.5	0.000 000	0.000
	100 %	-10	3470 009 997	-0.9	0.000 000	0.000
	100 %	0	3470 010 001	3.3	0.000 000	0.001
	100 %	+10	3470 009 993	-4.3	0.000 000	-0.001
	100 %	+30	3470 009 998	0.4	0.000 000	0.000
	100 %	+40	3470 009 990	-7.2	0.000 000	-0.002
	100 %	+50	3470 009 991	-6.3	0.000 000	-0.002
	Batt. Endpoint	+20	3470 009 999	1.3	0.000 000	0.000
3529.980	100 %	+20(Ref)	3529 980 001	0.0	0.000 000	0.000
	100 %	-30	3529 979 999	-1.9	0.000 000	-0.001
	100 %	-20	3529 980 002	1.2	0.000 000	0.000
	100 %	-10	3529 980 001	0.5	0.000 000	0.000
	100 %	0	3529 980 004	3.0	0.000 000	0.001
	100 %	+10	3529 980 004	3.0	0.000 000	0.001
	100 %	+30	3529 980 004	3.3	0.000 000	0.001
	100 %	+40	3529 980 002	1.1	0.000 000	0.000
	100 %	+50	3529 980 000	-0.7	0.000 000	0.000
	Batt. Endpoint	+20	3529 979 999	-1.8	0.000 000	-0.001

- BandWidth: 50 MHz
- Voltage(100 %): 3.880 VDC
- Batt. Endpoint: 3.400 VDC
- LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3475.020	100 %	+20(Ref)	3475 019 995	0.0	0.000 000	0.000
	100 %	-30	3475 019 995	-0.6	0.000 000	0.000
	100 %	-20	3475 020 002	6.9	0.000 000	0.002
	100 %	-10	3475 019 993	-2.1	0.000 000	-0.001
	100 %	0	3475 019 990	-5.3	0.000 000	-0.002
	100 %	+10	3475 019 991	-4.3	0.000 000	-0.001
	100 %	+30	3475 019 993	-1.9	0.000 000	-0.001
	100 %	+40	3475 019 994	-1.7	0.000 000	0.000
	100 %	+50	3475 019 995	-0.1	0.000 000	0.000
	Batt. Endpoint	+20	3475 019 993	-1.9	0.000 000	-0.001
3525.000	100 %	+20(Ref)	3524 999 998	0.0	0.000 000	0.000
	100 %	-30	3524 999 998	-0.9	0.000 000	0.000
	100 %	-20	3524 999 997	-0.9	0.000 000	0.000
	100 %	-10	3524 999 994	-4.8	0.000 000	-0.001
	100 %	0	3524 999 999	0.3	0.000 000	0.000
	100 %	+10	3524 999 995	-3.4	0.000 000	-0.001
	100 %	+30	3524 999 995	-3.1	0.000 000	-0.001
	100 %	+40	3524 999 997	-1.0	0.000 000	0.000
	100 %	+50	3524 999 997	-1.9	0.000 000	-0.001
	Batt. Endpoint	+20	3525 000 005	6.2	0.000 000	0.002

- BandWidth: 60 MHz
- Voltage(100 %): 3.880 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 999 998	0.0	0.000 000	0.000
	100 %	-30	3479 999 996	-2.1	0.000 000	-0.001
	100 %	-20	3479 999 995	-3.0	0.000 000	-0.001
	100 %	-10	3480 000 000	1.8	0.000 000	0.001
	100 %	0	3479 999 997	-0.8	0.000 000	0.000
	100 %	+10	3479 999 999	0.4	0.000 000	0.000
	100 %	+30	3479 999 994	-4.4	0.000 000	-0.001
	100 %	+40	3479 999 988	-9.6	0.000 000	-0.003
	100 %	+50	3479 999 994	-3.9	0.000 000	-0.001
	Batt. Endpoint	+20	3479 999 991	-7.3	0.000 000	-0.002
3519.990	100 %	+20(Ref)	3519 989 995	0.0	0.000 000	0.000
	100 %	-30	3519 989 991	-3.9	0.000 000	-0.001
	100 %	-20	3519 989 989	-6.2	0.000 000	-0.002
	100 %	-10	3519 989 985	-9.7	0.000 000	-0.003
	100 %	0	3519 989 987	-8.3	0.000 000	-0.002
	100 %	+10	3519 989 991	-3.6	0.000 000	-0.001
	100 %	+30	3519 990 003	7.6	0.000 000	0.002
	100 %	+40	3519 989 994	-0.6	0.000 000	0.000
	100 %	+50	3519 989 995	0.2	0.000 000	0.000
	Batt. Endpoint	+20	3519 989 989	-5.6	0.000 000	-0.002

- BandWidth: 70 MHz
- Voltage(100 %): 3.880 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 010 000	0.0	0.000 000	0.000
	100 %	-30	3485 010 000	0.2	0.000 000	0.000
	100 %	-20	3485 010 004	3.4	0.000 000	0.001
	100 %	-10	3485 010 004	3.4	0.000 000	0.001
	100 %	0	3485 010 006	5.6	0.000 000	0.002
	100 %	+10	3485 010 005	4.9	0.000 000	0.001
	100 %	+30	3485 009 999	-0.7	0.000 000	0.000
	100 %	+40	3485 009 999	-0.7	0.000 000	0.000
	100 %	+50	3485 009 998	-1.8	0.000 000	-0.001
	Batt. Endpoint	+20	3485 009 998	-2.3	0.000 000	-0.001
3514.980	100 %	+20(Ref)	3514 980 009	0.0	0.000 000	0.000
	100 %	-30	3514 980 016	6.5	0.000 000	0.002
	100 %	-20	3514 980 013	3.8	0.000 000	0.001
	100 %	-10	3514 980 014	4.8	0.000 000	0.001
	100 %	0	3514 980 015	5.9	0.000 000	0.002
	100 %	+10	3514 980 022	12.6	0.000 000	0.004
	100 %	+30	3514 980 019	9.7	0.000 000	0.003
	100 %	+40	3514 980 013	3.6	0.000 000	0.001
	100 %	+50	3514 980 014	4.5	0.000 000	0.001
	Batt. Endpoint	+20	3514 980 017	7.8	0.000 000	0.002

- BandWidth: 80 MHz
- Voltage(100 %): 3.880 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 020 000	0.0	0.000 000	0.000
	100 %	-30	3490 020 003	2.5	0.000 000	0.001
	100 %	-20	3490 020 005	4.7	0.000 000	0.001
	100 %	-10	3490 019 999	-1.1	0.000 000	0.000
	100 %	0	3490 020 004	4.0	0.000 000	0.001
	100 %	+10	3490 020 007	6.7	0.000 000	0.002
	100 %	+30	3490 020 010	9.2	0.000 000	0.003
	100 %	+40	3490 020 008	7.7	0.000 000	0.002
	100 %	+50	3490 020 002	1.6	0.000 000	0.000
	Batt. Endpoint	+20	3490 020 007	7.0	0.000 000	0.002
3510.000	100 %	+20(Ref)	3509 999 999	0.0	0.000 000	0.000
	100 %	-30	3510 000 004	4.5	0.000 000	0.001
	100 %	-20	3510 000 006	6.6	0.000 000	0.002
	100 %	-10	3510 000 005	5.3	0.000 000	0.002
	100 %	0	3510 000 007	7.3	0.000 000	0.002
	100 %	+10	3510 000 000	0.3	0.000 000	0.000
	100 %	+30	3510 000 007	7.2	0.000 000	0.002
	100 %	+40	3510 000 000	0.7	0.000 000	0.000
	100 %	+50	3510 000 000	0.9	0.000 000	0.000
	Batt. Endpoint	+20	3510 000 004	4.8	0.000 000	0.001

- BandWidth: 90 MHz
- Voltage(100 %): 3.880 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)	3495 000 002	0.0	0.000 000	0.000
	100 %	-30	3494 999 999	-2.3	0.000 000	-0.001
	100 %	-20	3495 000 001	-0.6	0.000 000	0.000
	100 %	-10	3494 999 999	-3.1	0.000 000	-0.001
	100 %	0	3495 000 002	0.1	0.000 000	0.000
	100 %	+10	3495 000 001	-0.3	0.000 000	0.000
	100 %	+30	3495 000 002	0.0	0.000 000	0.000
	100 %	+40	3494 999 998	-3.2	0.000 000	-0.001
	100 %	+50	3494 999 998	-3.2	0.000 000	-0.001
	Batt. Endpoint	+20	3495 000 002	0.3	0.000 000	0.000
3504.990	100 %	+20(Ref)	3504 990 004	0.0	0.000 000	0.000
	100 %	-30	3504 990 010	5.8	0.000 000	0.002
	100 %	-20	3504 990 010	5.9	0.000 000	0.002
	100 %	-10	3504 990 005	1.1	0.000 000	0.000
	100 %	0	3504 990 000	-3.4	0.000 000	-0.001
	100 %	+10	3504 990 001	-3.1	0.000 000	-0.001
	100 %	+30	3504 990 007	3.5	0.000 000	0.001
	100 %	+40	3504 990 000	-3.7	0.000 000	-0.001
	100 %	+50	3504 990 004	0.4	0.000 000	0.000
	Batt. Endpoint	+20	3504 990 009	5.1	0.000 000	0.001

- BandWidth: 100 MHz
- Voltage(100 %): 3.880 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 010 004	0.0	0.000 000	0.000
	100 %	-30	3500 010 002	-2.5	0.000 000	-0.001
	100 %	-20	3500 010 010	5.3	0.000 000	0.002
	100 %	-10	3500 010 009	5.1	0.000 000	0.001
	100 %	0	3500 010 009	4.4	0.000 000	0.001
	100 %	+10	3500 010 011	7.0	0.000 000	0.002
	100 %	+30	3500 010 009	4.6	0.000 000	0.001
	100 %	+40	3500 010 009	4.8	0.000 000	0.001
	100 %	+50	3500 010 011	6.5	0.000 000	0.002
	Batt. Endpoint	+20	3500 010 007	2.4	0.000 000	0.001

9. TEST DATA (3700 MHz - 3980 MHz)

9.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3705.00	Sub6 n77(78)/ 10 MHz [30 kHz]	PI/2 BPSK	-22.48	16.56	12.08	3.16	H	< 1.00	0.353	25.48	1	12
		QPSK	-22.54	16.50	12.08	3.16	H		0.348	25.42		
		16-QAM	-23.60	15.44	12.08	3.16	H		0.273	24.36		
		64-QAM	-24.99	14.05	12.08	3.16	H		0.198	22.97		
		256-QAM	-27.04	12.00	12.08	3.16	H		0.124	20.92		
3840.00		PI/2 BPSK	-23.51	17.15	11.58	3.21	H		0.356	25.52	1	1
		QPSK	-23.52	17.14	11.58	3.21	H		0.356	25.51		
		16-QAM	-24.58	16.08	11.58	3.21	H		0.279	24.45		
		64-QAM	-25.97	14.69	11.58	3.21	H		0.202	23.06		
		256-QAM	-28.21	12.45	11.58	3.21	H		0.121	20.82		
3975.00		PI/2 BPSK	-24.49	16.65	11.70	3.28	H		0.321	25.07	1	12
		QPSK	-24.56	16.58	11.70	3.28	H		0.316	25.00		
		16-QAM	-25.71	15.43	11.70	3.28	H		0.243	23.85		
		64-QAM	-26.99	14.15	11.70	3.28	H		0.181	22.57		
		256-QAM	-29.06	12.08	11.70	3.28	H		0.112	20.50		

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	-22.56	16.51	12.08	3.16	H	< 1.00	0.349	25.43	1	36
		QPSK	-22.62	16.45	12.08	3.16	H		0.344	25.37		
		16-QAM	-23.65	15.42	12.08	3.16	H		0.272	24.34		
		64-QAM	-25.05	14.02	12.08	3.16	H		0.197	22.94		
		256-QAM	-27.08	11.99	12.08	3.16	H		0.123	20.91		
3840.00		PI/2 BPSK	-23.44	17.22	11.58	3.21	H		0.362	25.59	1	1
		QPSK	-23.45	17.21	11.58	3.21	H		0.361	25.58		
		16-QAM	-24.56	16.10	11.58	3.21	H		0.280	24.47		
		64-QAM	-25.89	14.77	11.58	3.21	H		0.206	23.14		
		256-QAM	-27.86	12.80	11.58	3.21	H		0.131	21.17		
3972.48		PI/2 BPSK	-24.52	16.56	11.69	3.28	H		0.314	24.97	1	19
		QPSK	-24.58	16.50	11.69	3.28	H		0.310	24.91		
		16-QAM	-25.46	15.62	11.69	3.28	H		0.253	24.03		
		64-QAM	-27.16	13.92	11.69	3.28	H		0.171	22.33		
		256-QAM	-29.06	12.02	11.69	3.28	H		0.110	20.43		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3710.01		PI/2 BPSK	-22.45	16.62	12.08	3.16	H	< 1.00	0.358	25.54	1	49
		QPSK	-22.48	16.59	12.08	3.16	H		0.356	25.51		
		16-QAM	-23.46	15.61	12.08	3.16	H		0.284	24.53		
		64-QAM	-25.02	14.05	12.08	3.16	H		0.198	22.97		
		256-QAM	-27.19	11.88	12.08	3.16	H		0.120	20.80		
3840.00	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-23.34	17.32	11.58	3.21	H	< 1.00	0.371	25.69	1	1
		QPSK	-23.39	17.27	11.58	3.21	H		0.366	25.64		
		16-QAM	-24.40	16.26	11.58	3.21	H		0.290	24.63		
		64-QAM	-25.96	14.70	11.58	3.21	H		0.203	23.07		
		256-QAM	-28.05	12.61	11.58	3.21	H		0.125	20.98		
3969.99		PI/2 BPSK	-24.39	16.69	11.69	3.28	H	< 1.00	0.324	25.10	1	25
		QPSK	-24.47	16.61	11.69	3.28	H		0.318	25.02		
		16-QAM	-25.55	15.53	11.69	3.28	H		0.248	23.94		
		64-QAM	-27.13	13.95	11.69	3.28	H		0.172	22.36		
		256-QAM	-28.99	12.09	11.69	3.28	H		0.112	20.50		

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		PI/2 BPSK	-22.49	16.60	12.08	3.17	H	< 1.00	0.356	25.51	1	63
		QPSK	-22.52	16.57	12.08	3.17	H		0.353	25.48		
		16-QAM	-23.50	15.59	12.08	3.17	H		0.282	24.50		
		64-QAM	-25.01	14.08	12.08	3.17	H		0.199	22.99		
		256-QAM	-26.95	12.14	12.08	3.17	H		0.127	21.05		
3840.00	Sub6 n77(78)/ 25 MHz [30 kHz]	PI/2 BPSK	-23.40	17.26	11.58	3.21	H	< 1.00	0.366	25.63	1	1
		QPSK	-23.43	17.23	11.58	3.21	H		0.363	25.60		
		16-QAM	-24.36	16.30	11.58	3.21	H		0.293	24.67		
		64-QAM	-25.95	14.71	11.58	3.21	H		0.203	23.08		
		256-QAM	-28.00	12.66	11.58	3.21	H		0.127	21.03		
3967.50		PI/2 BPSK	-24.64	16.44	11.69	3.28	H	< 1.00	0.305	24.85	1	63
		QPSK	-24.67	16.41	11.69	3.28	H		0.303	24.82		
		16-QAM	-25.66	15.42	11.69	3.28	H		0.242	23.83		
		64-QAM	-27.16	13.92	11.69	3.28	H		0.171	22.33		
		256-QAM	-29.04	12.04	11.69	3.28	H		0.111	20.45		

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
3715.02		PI/2 BPSK	-22.42	16.67	12.08	3.17	H	< 1.00	0.361	25.58	1	39
		QPSK	-22.43	16.66	12.08	3.17	H		0.361	25.57		
		16-QAM	-23.42	15.67	12.08	3.17	H		0.287	24.58		
		64-QAM	-25.06	14.03	12.08	3.17	H		0.197	22.94		
		256-QAM	-26.95	12.14	12.08	3.17	H		0.127	21.05		
3840.00	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-23.34	17.32	11.58	3.21	H	< 1.00	0.371	25.69	1	1
		QPSK	-23.36	17.30	11.58	3.21	H		0.369	25.67		
		16-QAM	-24.20	16.46	11.58	3.21	H		0.304	24.83		
		64-QAM	-25.97	14.69	11.58	3.21	H		0.202	23.06		
		256-QAM	-27.71	12.95	11.58	3.21	H		0.136	21.32		
3964.98		PI/2 BPSK	-24.50	16.62	11.67	3.28	H	< 1.00	0.317	25.01	1	76
		QPSK	-24.59	16.53	11.67	3.28	H		0.310	24.92		
		16-QAM	-25.38	15.74	11.67	3.28	H		0.259	24.13		
		64-QAM	-27.17	13.95	11.67	3.28	H		0.171	22.34		
		256-QAM	-29.27	11.85	11.67	3.28	H		0.106	20.24		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3720.00		PI/2 BPSK	-22.48	16.63	12.07	3.17	H	< 1.00	0.357	25.53	1	53
		QPSK	-22.50	16.61	12.07	3.17	H		0.356	25.51		
		16-QAM	-23.44	15.67	12.07	3.17	H		0.286	24.57		
		64-QAM	-24.93	14.18	12.07	3.17	H		0.203	23.08		
		256-QAM	-26.83	12.28	12.07	3.17	H		0.131	21.18		
3840.00	Sub6 n77(78)/ 40 MHz [30 kHz]	PI/2 BPSK	-23.22	17.44	11.58	3.21	H	< 1.00	0.381	25.81	1	1
		QPSK	-23.23	17.43	11.58	3.21	H		0.380	25.80		
		16-QAM	-24.37	16.29	11.58	3.21	H		0.292	24.66		
		64-QAM	-25.81	14.85	11.58	3.21	H		0.210	23.22		
		256-QAM	-27.74	12.92	11.58	3.21	H		0.135	21.29		
3960.00		PI/2 BPSK	-24.39	16.76	11.65	3.27	H	< 1.00	0.327	25.14	1	53
		QPSK	-24.55	16.60	11.65	3.27	H		0.315	24.98		
		16-QAM	-25.41	15.74	11.65	3.27	H		0.258	24.12		
		64-QAM	-27.00	14.15	11.65	3.27	H		0.179	22.53		
		256-QAM	-29.31	11.84	11.65	3.27	H		0.105	20.22		

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
3725.10		PI/2 BPSK	-22.38	16.73	12.06	3.17	H	< 1.00	0.365	25.62	1	66
		QPSK	-22.54	16.57	12.06	3.17	H		0.352	25.46		
		16-QAM	-23.41	15.70	12.06	3.17	H		0.288	24.59		
		64-QAM	-25.08	14.03	12.06	3.17	H		0.196	22.92		
		256-QAM	-26.95	12.16	12.06	3.17	H		0.127	21.05		
3840.00	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-23.30	17.36	11.58	3.21	H	< 1.00	0.374	25.73	1	1
		QPSK	-23.31	17.35	11.58	3.21	H		0.373	25.72		
		16-QAM	-24.30	16.36	11.58	3.21	H		0.297	24.73		
		64-QAM	-25.79	14.87	11.58	3.21	H		0.211	23.24		
		256-QAM	-27.98	12.68	11.58	3.21	H		0.127	21.05		
3954.99		PI/2 BPSK	-24.12	16.98	11.63	3.27	H	< 1.00	0.342	25.34	1	1
		QPSK	-24.15	16.95	11.63	3.27	H		0.340	25.31		
		16-QAM	-25.24	15.86	11.63	3.27	H		0.264	24.22		
		64-QAM	-26.79	14.31	11.63	3.27	H		0.185	22.67		
		256-QAM	-28.65	12.45	11.63	3.27	H		0.121	20.81		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3730.02		PI/2 BPSK	-22.60	16.54	12.04	3.18	H	< 1.00	0.347	25.40	1	82
		QPSK	-22.63	16.51	12.04	3.18	H		0.344	25.37		
		16-QAM	-23.64	15.50	12.04	3.18	H		0.273	24.36		
		64-QAM	-25.18	13.96	12.04	3.18	H		0.191	22.82		
		256-QAM	-27.06	12.08	12.04	3.18	H		0.124	20.94		
3840.00	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-23.16	17.50	11.58	3.21	H	< 1.00	0.386	25.87	1	1
		QPSK	-23.20	17.46	11.58	3.21	H		0.383	25.83		
		16-QAM	-23.98	16.68	11.58	3.21	H		0.320	25.05		
		64-QAM	-25.73	14.93	11.58	3.21	H		0.214	23.30		
		256-QAM	-27.62	13.04	11.58	3.21	H		0.138	21.41		
3949.98		PI/2 BPSK	-23.93	17.10	11.61	3.26	H	< 1.00	0.351	25.45	1	1
		QPSK	-23.96	17.07	11.61	3.26	H		0.348	25.42		
		16-QAM	-25.02	16.01	11.61	3.26	H		0.273	24.36		
		64-QAM	-26.62	14.41	11.61	3.26	H		0.189	22.76		
		256-QAM	-28.51	12.52	11.61	3.26	H		0.122	20.87		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3735.00	Sub6 n77(78)/ 70 MHz [30 kHz]	PI/2 BPSK	-22.57	16.69	12.02	3.18	H	< 1.00	0.357	25.53	1	187
		QPSK	-22.63	16.63	12.02	3.18	H		0.352	25.47		
		16-QAM	-23.58	15.68	12.02	3.18	H		0.283	24.52		
		64-QAM	-25.02	14.24	12.02	3.18	H		0.203	23.08		
		256-QAM	-27.30	11.96	12.02	3.18	H		0.120	20.80		
3840.00		PI/2 BPSK	-23.04	17.62	11.58	3.21	H		0.397	25.99	1	1
		QPSK	-23.11	17.55	11.58	3.21	H		0.391	25.92		
		16-QAM	-23.93	16.73	11.58	3.21	H		0.324	25.10		
		64-QAM	-25.61	15.05	11.58	3.21	H		0.220	23.42		
		256-QAM	-27.60	13.06	11.58	3.21	H		0.139	21.43		
3945.00		PI/2 BPSK	-23.77	17.24	11.60	3.26	H		0.361	25.58	1	1
		QPSK	-23.88	17.13	11.60	3.26	H		0.352	25.47		
		16-QAM	-24.73	16.28	11.60	3.26	H		0.290	24.62		
		64-QAM	-26.45	14.56	11.60	3.26	H		0.195	22.90		
		256-QAM	-28.36	12.65	11.60	3.26	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
3740.01		PI/2 BPSK	-22.43	16.95	12.00	3.18	H	< 1.00	0.378	25.77	1	215
		QPSK	-22.46	16.92	12.00	3.18	H		0.375	25.74		
		16-QAM	-23.38	16.00	12.00	3.18	H		0.303	24.82		
		64-QAM	-25.10	14.28	12.00	3.18	H		0.204	23.10		
		256-QAM	-27.09	12.29	12.00	3.18	H		0.129	21.11		
3840.00	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-22.86	17.80	11.58	3.21	H	< 1.00	0.414	26.17	1	1
		QPSK	-22.95	17.71	11.58	3.21	H		0.406	26.08		
		16-QAM	-23.73	16.93	11.58	3.21	H		0.339	25.30		
		64-QAM	-25.46	15.20	11.58	3.21	H		0.228	23.57		
		256-QAM	-27.37	13.29	11.58	3.21	H		0.147	21.66		
3939.99		PI/2 BPSK	-23.72	17.27	11.58	3.25	H	< 1.00	0.363	25.60	1	1
		QPSK	-23.73	17.26	11.58	3.25	H		0.362	25.59		
		16-QAM	-24.67	16.32	11.58	3.25	H		0.292	24.65		
		64-QAM	-26.32	14.67	11.58	3.25	H		0.200	23.00		
		256-QAM	-28.11	12.88	11.58	3.25	H		0.132	21.21		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3745.02		PI/2 BPSK	-22.53	16.96	11.97	3.19	H	< 1.00	0.375	25.74	1	243
		QPSK	-22.55	16.94	11.97	3.19	H		0.373	25.72		
		16-QAM	-23.67	15.82	11.97	3.19	H		0.288	24.60		
		64-QAM	-25.04	14.45	11.97	3.19	H		0.210	23.23		
		256-QAM	-27.09	12.40	11.97	3.19	H		0.131	21.18		
3840.00	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-22.71	17.95	11.58	3.21	H	< 1.00	0.429	26.32	1	1
		QPSK	-22.73	17.93	11.58	3.21	H		0.427	26.30		
		16-QAM	-23.53	17.13	11.58	3.21	H		0.355	25.50		
		64-QAM	-25.27	15.39	11.58	3.21	H		0.238	23.76		
		256-QAM	-27.19	13.47	11.58	3.21	H		0.153	21.84		
3934.98		PI/2 BPSK	-23.79	17.26	11.56	3.25	H	< 1.00	0.361	25.57	1	1
		QPSK	-23.85	17.20	11.56	3.25	H		0.356	25.51		
		16-QAM	-24.79	16.26	11.56	3.25	H		0.286	24.57		
		64-QAM	-26.34	14.71	11.56	3.25	H		0.200	23.02		
		256-QAM	-28.36	12.69	11.56	3.25	H		0.126	21.00		

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	-22.71	16.86	11.95	3.19	H	< 1.00	0.365	25.62	1	1
		QPSK	-22.72	16.85	11.95	3.19	H		0.364	25.61		
		16-QAM	-23.67	15.90	11.95	3.19	H		0.292	24.66		
		64-QAM	-25.28	14.29	11.95	3.19	H		0.202	23.05		
		256-QAM	-27.17	12.40	11.95	3.19	H		0.131	21.16		
3840.00	Sub6 n77(78)/ 100 MHz [30 kHz]	PI/2 BPSK	-22.74	17.92	11.58	3.21	H	< 1.00	0.426	26.29	1	1
		QPSK	-22.75	17.91	11.58	3.21	H		0.425	26.28		
		16-QAM	-23.76	16.90	11.58	3.21	H		0.337	25.27		
		64-QAM	-25.34	15.32	11.58	3.21	H		0.234	23.69		
		256-QAM	-27.53	13.13	11.58	3.21	H		0.141	21.50		
3930.00		PI/2 BPSK	-24.02	17.10	11.54	3.25	H	< 1.00	0.346	25.39	1	1
		QPSK	-24.04	17.08	11.54	3.25	H		0.344	25.37		
		16-QAM	-24.85	16.27	11.54	3.25	H		0.286	24.56		
		64-QAM	-26.54	14.58	11.54	3.25	H		0.194	22.87		
		256-QAM	-28.61	12.51	11.54	3.25	H		0.120	20.80		

9.2 RADIATED SPURIOUS EMISSIONS

☒ NR Band: N77(78)
☒ Bandwidth: 90 MHz
☒ Modulation: PI/2 BPSK
☒ Distance: 1 meters
☒ SCS: 30 kHz

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)	7 500.00	-50.32	11.53	-42.45	4.73	H	-35.65	-13.00	1	243
	11 250.00	-63.65	11.52	-53.27	5.82	H	-47.57	-13.00		
	15 000.00	-57.89	12.82	-51.45	6.86	H	-45.49	-13.00		
656000 (3840.00)	7 680.00	-50.87	11.94	-44.00	4.78	H	-36.84	-13.00	1	1
	11 520.00	-63.11	11.50	-52.01	5.93	V	-46.44	-13.00		
	15 360.00	-56.14	15.31	-48.68	6.97	V	-40.34	-13.00		
662332 (3934.98)	7 860.00	-50.72	11.77	-43.25	4.84	H	-36.32	-13.00	1	1
	11 790.00	-63.35	12.88	-53.52	6.00	H	-46.64	-13.00		
	15 720.00	-59.48	16.82	-52.38	7.06	H	-42.62	-13.00		

9.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)	Limit (dB)
Sub6 n77(78)	10 MHz	3840.00	BPSK	Full RB	0	4.12	13.00
			QPSK			5.24	
			16-QAM			5.92	
			64-QAM			6.07	
			256-QAM			6.30	
	15 MHz		BPSK			4.00	
			QPSK			5.13	
			16-QAM			5.86	
			64-QAM			6.06	
			256-QAM			6.24	
	20 MHz		BPSK			4.76	
			QPSK			5.25	
			16-QAM			5.89	
			64-QAM			6.02	
			256-QAM			6.24	
	25 MHz		BPSK			5.47	
			QPSK			5.69	
			16-QAM			6.07	
			64-QAM			6.09	
			256-QAM			6.26	
	30 MHz		BPSK			4.54	
			QPSK			5.17	
			16-QAM			5.90	
			64-QAM			6.03	
			256-QAM			6.19	
	40 MHz		BPSK			4.70	
			QPSK			5.14	
			16-QAM			5.84	
			64-QAM			6.02	

	50 MHz	256-QAM	6.20
		BPSK	4.11
		QPSK	5.19
		16-QAM	5.81
		64-QAM	6.02
		256-QAM	6.20
	60 MHz	BPSK	4.41
		QPSK	5.20
		16-QAM	5.76
		64-QAM	5.99
		256-QAM	6.19
	70 MHz	BPSK	4.75
		QPSK	5.25
		16-QAM	5.87
		64-QAM	6.00
		256-QAM	6.25
	80 MHz	BPSK	4.18
		QPSK	5.26
		16-QAM	5.92
		64-QAM	6.07
		256-QAM	6.28
	90 MHz	BPSK	5.30
		QPSK	5.60
		16-QAM	5.97
		64-QAM	6.11
		256-QAM	6.36
	100 MHz	BPSK	4.13
		QPSK	5.25
		16-QAM	5.84
		64-QAM	6.03
		256-QAM	6.19

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 426 ~ 485.

9.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n77(78)	10 MHz	3840.00	BPSK	Full RB	0	8.6602
			QPSK			8.6662
			16-QAM			8.6574
			64-QAM			8.6788
			256-QAM			8.7025
	15 MHz		BPSK			12.926
			QPSK			12.963
			16-QAM			12.934
			64-QAM			12.968
			256-QAM			12.955
	20 MHz		BPSK			17.981
			QPSK			18.000
			16-QAM			17.940
			64-QAM			17.896
			256-QAM			17.948
	25 MHz		BPSK			23.023
			QPSK			22.998
			16-QAM			22.975
			64-QAM			22.952
			256-QAM			22.920
	30 MHz		BPSK			26.916
			QPSK			26.877
			16-QAM			26.934
			64-QAM			27.015
			256-QAM			26.913
	40 MHz		BPSK			35.910
			QPSK			36.024
			16-QAM			35.925
			64-QAM			35.896

	50 MHz	256-QAM	35.862
		BPSK	45.910
		QPSK	45.898
		16-QAM	45.891
		64-QAM	45.925
		256-QAM	45.940
	60 MHz	BPSK	58.286
		QPSK	58.223
		16-QAM	58.231
		64-QAM	58.147
		256-QAM	58.154
	70 MHz	BPSK	64.705
		QPSK	64.828
		16-QAM	64.781
		64-QAM	64.824
		256-QAM	64.900
	80 MHz	BPSK	77.409
		QPSK	77.575
		16-QAM	77.490
		64-QAM	77.363
		256-QAM	77.476
	90 MHz	BPSK	87.080
		QPSK	87.152
		16-QAM	87.230
		64-QAM	87.117
		256-QAM	87.160
	100 MHz	BPSK	96.818
		QPSK	96.792
		16-QAM	96.768
		64-QAM	96.721
		256-QAM	96.846

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 486 ~ 545.

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	9.0927	30.315	-63.451	-33.136	-13.00
		3840.000	9.2124	30.315	-62.886	-32.571	
		3975.000	9.9103	30.315	-63.580	-33.265	
	15	3707.520	8.8335	30.315	-62.916	-32.601	
		3840.000	8.6042	30.315	-63.198	-32.883	
		3972.480	9.8604	30.315	-64.203	-33.888	
	20	3710.010	9.9003	30.315	-63.771	-33.456	
		3840.000	9.0628	30.315	-63.498	-33.183	
		3969.990	9.3819	30.315	-62.655	-32.340	
	25	3712.500	8.8634	30.315	-63.712	-33.397	
		3840.000	9.6909	30.315	-64.179	-33.864	
		3967.500	8.0559	30.315	-63.576	-33.261	
	30	3715.020	8.0658	30.315	-63.629	-33.314	
		3840.000	4.9851	29.722	-63.265	-33.543	
		3964.980	9.7308	30.315	-64.022	-33.707	
	40	3720.000	9.4217	30.315	-63.916	-33.601	
		3840.000	9.3918	30.315	-63.668	-33.353	
		3960.000	4.9153	29.722	-64.107	-34.385	
	50	3725.010	9.4616	30.315	-63.278	-32.963	
		3840.000	8.8136	30.315	-62.637	-32.322	
		3954.990	7.9861	30.315	-63.860	-33.545	
	60	3730.020	5.4936	30.315	-63.362	-33.047	
		3840.000	9.4018	30.315	-63.130	-32.815	
		3949.980	8.1855	30.315	-63.514	-33.199	
	70	3735.000	9.8704	30.315	-63.695	-33.380	
		3840.000	7.3679	30.315	-62.297	-31.982	
		3945.000	4.9652	29.722	-62.807	-33.085	
	80	3740.010	8.8834	30.315	-63.754	-33.439	
		3840.000	7.7268	30.315	-63.860	-33.545	
		3939.990	7.4975	30.315	-63.731	-33.416	
	90	3745.020	8.9332	30.315	-63.586	-33.271	
		3840.000	9.4317	30.315	-63.852	-33.537	
		3934.980	4.9253	29.722	-62.304	-32.582	
	100	3750.000	9.1226	30.315	-63.099	-32.784	
		3840.000	4.2872	29.722	-62.633	-32.911	
		3930.000	9.4317	30.315	-62.614	-32.299	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 546 ~ 617.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
 - Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter
3. Factor(dB)

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.012
1 – 5	29.722
5 – 10	30.315
10 – 15	30.840
15 – 20	31.213
Above 20	31.855

9.6 BAND EDGE

1. Plots of the EUT's Band Edge are shown Page 618 ~ 761.
2. Duty Cycle factor already applied on the factor.
 - Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter
 - Result(dBm) = Reading + Factor
 - Duty Cycle Factor(dB) = 6.990

9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- BandWidth: 10 MHz
- Voltage(100 %): 3.880 VDC
- Batt. Endpoint: 3.400 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 000 000	0.0	0.000 000	0.000
	100 %	-30	3705 000 001	0.8	0.000 000	0.000
	100 %	-20	3704 999 999	-0.9	0.000 000	0.000
	100 %	-10	3705 000 000	-0.2	0.000 000	0.000
	100 %	0	3705 000 001	0.4	0.000 000	0.000
	100 %	+10	3705 000 000	-0.3	0.000 000	0.000
	100 %	+30	3705 000 001	0.6	0.000 000	0.000
	100 %	+40	3705 000 000	0.3	0.000 000	0.000
	100 %	+50	3704 999 998	-1.7	0.000 000	0.000
	Batt. Endpoint	+20	3704 999 997	-3.1	0.000 000	-0.001
3975.000	100 %	+20(Ref)	3974 999 997	0.0	0.000 000	0.000
	100 %	-30	3974 999 992	-4.9	0.000 000	-0.001
	100 %	-20	3974 999 991	-5.5	0.000 000	-0.001
	100 %	-10	3974 999 994	-2.8	0.000 000	-0.001
	100 %	0	3974 999 995	-2.4	0.000 000	-0.001
	100 %	+10	3974 999 990	-6.7	0.000 000	-0.002
	100 %	+30	3974 999 987	-9.8	0.000 000	-0.002
	100 %	+40	3975 000 003	5.7	0.000 000	0.001
	100 %	+50	3974 999 996	-0.8	0.000 000	0.000
	Batt. Endpoint	+20	3975 000 000	2.6	0.000 000	0.001

- BandWidth: 15 MHz
- Voltage(100 %): 3.880 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 519 999	0.0	0.000 000	0.000
	100 %	-30	3707 519 999	0.1	0.000 000	0.000
	100 %	-20	3707 519 997	-1.8	0.000 000	0.000
	100 %	-10	3707 519 997	-2.5	0.000 000	-0.001
	100 %	0	3707 519 998	-1.0	0.000 000	0.000
	100 %	+10	3707 520 000	0.9	0.000 000	0.000
	100 %	+30	3707 519 998	-1.1	0.000 000	0.000
	100 %	+40	3707 519 996	-3.0	0.000 000	-0.001
	100 %	+50	3707 520 000	1.2	0.000 000	0.000
	Batt. Endpoint	+20	3707 520 001	1.4	0.000 000	0.000
3972.480	100 %	+20(Ref)	3972 480 002	0.0	0.000 000	0.000
	100 %	-30	3972 480 005	3.4	0.000 000	0.001
	100 %	-20	3972 480 000	-1.2	0.000 000	0.000
	100 %	-10	3972 480 006	4.6	0.000 000	0.001
	100 %	0	3972 480 001	-0.8	0.000 000	0.000
	100 %	+10	3972 480 003	1.3	0.000 000	0.000
	100 %	+30	3972 479 999	-2.5	0.000 000	-0.001
	100 %	+40	3972 480 000	-1.6	0.000 000	0.000
	100 %	+50	3972 479 999	-2.2	0.000 000	-0.001
	Batt. Endpoint	+20	3972 480 004	2.2	0.000 000	0.001

- BandWidth: 20 MHz
- Voltage(100 %): 3.880 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 009 996	-1.5	0.000 000	0.000
	100 %	-20	3710 009 995	-3.0	0.000 000	-0.001
	100 %	-10	3710 009 996	-1.4	0.000 000	0.000
	100 %	0	3710 009 999	1.9	0.000 000	0.001
	100 %	+10	3710 009 998	0.3	0.000 000	0.000
	100 %	+30	3710 010 000	2.3	0.000 000	0.001
	100 %	+40	3710 009 998	0.9	0.000 000	0.000
	100 %	+50	3710 009 997	-0.5	0.000 000	0.000
	Batt. Endpoint	+20	3710 009 997	-0.1	0.000 000	0.000
3969.990	100 %	+20(Ref)	3969 990 004	0.0	0.000 000	0.000
	100 %	-30	3969 990 004	0.3	0.000 000	0.000
	100 %	-20	3969 989 993	-10.6	0.000 000	-0.003
	100 %	-10	3969 990 009	4.9	0.000 000	0.001
	100 %	0	3969 990 001	-2.5	0.000 000	-0.001
	100 %	+10	3969 989 997	-6.9	0.000 000	-0.002
	100 %	+30	3969 990 002	-2.2	0.000 000	-0.001
	100 %	+40	3969 990 000	-4.0	0.000 000	-0.001
	100 %	+50	3969 989 999	-5.3	0.000 000	-0.001
	Batt. Endpoint	+20	3969 990 005	1.2	0.000 000	0.000

- BandWidth: 25 MHz
- Voltage(100 %): 3.880 VDC
- Batt. Endpoint: 3.400 VDC
- LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3712.500	100 %	+20(Ref)	3712 499 994	0.0	0.000 000	0.000
	100 %	-30	3712 499 994	-0.4	0.000 000	0.000
	100 %	-20	3712 500 001	6.5	0.000 000	0.002
	100 %	-10	3712 499 993	-1.5	0.000 000	0.000
	100 %	0	3712 499 992	-1.9	0.000 000	-0.001
	100 %	+10	3712 499 996	1.5	0.000 000	0.000
	100 %	+30	3712 499 992	-1.6	0.000 000	0.000
	100 %	+40	3712 499 994	0.2	0.000 000	0.000
	100 %	+50	3712 499 996	2.1	0.000 000	0.001
	Batt. Endpoint	+20	3712 499 992	-1.8	0.000 000	0.000
3967.500	100 %	+20(Ref)	3967 499 992	0.0	0.000 000	0.000
	100 %	-30	3967 499 986	-6.3	0.000 000	-0.002
	100 %	-20	3967 499 986	-5.9	0.000 000	-0.001
	100 %	-10	3967 499 982	-10.0	0.000 000	-0.003
	100 %	0	3967 499 992	0.0	0.000 000	0.000
	100 %	+10	3967 499 986	-5.5	0.000 000	-0.001
	100 %	+30	3967 499 987	-5.3	0.000 000	-0.001
	100 %	+40	3967 499 987	-4.8	0.000 000	-0.001
	100 %	+50	3967 499 986	-6.0	0.000 000	-0.001
	Batt. Endpoint	+20	3967 499 983	-8.5	0.000 000	-0.002

- BandWidth: 30 MHz
- Voltage(100 %): 3.880 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 019 993	0.0	0.000 000	0.000
	100 %	-30	3715 019 996	2.5	0.000 000	0.001
	100 %	-20	3715 019 990	-3.3	0.000 000	-0.001
	100 %	-10	3715 019 994	0.5	0.000 000	0.000
	100 %	0	3715 019 987	-6.0	0.000 000	-0.002
	100 %	+10	3715 019 987	-6.1	0.000 000	-0.002
	100 %	+30	3715 019 990	-3.8	0.000 000	-0.001
	100 %	+40	3715 019 989	-4.4	0.000 000	-0.001
	100 %	+50	3715 019 990	-3.8	0.000 000	-0.001
	Batt. Endpoint	+20	3715 019 990	-3.4	0.000 000	-0.001
3964.980	100 %	+20(Ref)	3964 980 000	0.0	0.000 000	0.000
	100 %	-30	3964 979 990	-9.2	0.000 000	-0.002
	100 %	-20	3964 979 999	-0.6	0.000 000	0.000
	100 %	-10	3964 979 989	-10.3	0.000 000	-0.003
	100 %	0	3964 979 993	-7.0	0.000 000	-0.002
	100 %	+10	3964 979 994	-5.7	0.000 000	-0.001
	100 %	+30	3964 979 992	-7.8	0.000 000	-0.002
	100 %	+40	3964 979 989	-10.8	0.000 000	-0.003
	100 %	+50	3964 979 989	-10.5	0.000 000	-0.003
	Batt. Endpoint	+20	3964 979 990	-10.0	0.000 000	-0.003

- BandWidth: 40 MHz
- Voltage(100 %): 3.880 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 999 995	0.0	0.000 000	0.000
	100 %	-30	3719 999 992	-2.6	0.000 000	-0.001
	100 %	-20	3719 999 992	-2.6	0.000 000	-0.001
	100 %	-10	3719 999 993	-2.1	0.000 000	-0.001
	100 %	0	3719 999 991	-3.4	0.000 000	-0.001
	100 %	+10	3719 999 984	-10.8	0.000 000	-0.003
	100 %	+30	3719 999 993	-1.8	0.000 000	0.000
	100 %	+40	3719 999 993	-1.8	0.000 000	0.000
	100 %	+50	3719 999 994	-0.9	0.000 000	0.000
	Batt. Endpoint	+20	3719 999 994	-0.5	0.000 000	0.000
3960.000	100 %	+20(Ref)	3960 000 004	0.0	0.000 000	0.000
	100 %	-30	3960 000 001	-2.8	0.000 000	-0.001
	100 %	-20	3960 000 000	-4.0	0.000 000	-0.001
	100 %	-10	3960 000 004	0.0	0.000 000	0.000
	100 %	0	3959 999 999	-4.9	0.000 000	-0.001
	100 %	+10	3960 000 003	-0.7	0.000 000	0.000
	100 %	+30	3959 999 992	-12.2	0.000 000	-0.003
	100 %	+40	3959 999 995	-9.1	0.000 000	-0.002
	100 %	+50	3960 000 003	-1.1	0.000 000	0.000
	Batt. Endpoint	+20	3959 999 998	-6.2	0.000 000	-0.002

- BandWidth: 50 MHz
- Voltage(100 %): 3.880 VDC
- Batt. Endpoint: 3.400 VDC
- LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3725.010	100 %	+20(Ref)	3725 009 998	0.0	0.000 000	0.000
	100 %	-30	3725 009 992	-6.2	0.000 000	-0.002
	100 %	-20	3725 009 998	-0.2	0.000 000	0.000
	100 %	-10	3725 009 999	0.2	0.000 000	0.000
	100 %	0	3725 010 001	2.3	0.000 000	0.001
	100 %	+10	3725 009 997	-1.0	0.000 000	0.000
	100 %	+30	3725 009 996	-2.1	0.000 000	-0.001
	100 %	+40	3725 009 999	0.5	0.000 000	0.000
	100 %	+50	3725 009 999	0.4	0.000 000	0.000
	Batt. Endpoint	+20	3725 009 997	-1.7	0.000 000	0.000
3954.990	100 %	+20(Ref)	3954 989 993	0.0	0.000 000	0.000
	100 %	-30	3954 989 993	-0.9	0.000 000	0.000
	100 %	-20	3954 989 991	-2.0	0.000 000	-0.001
	100 %	-10	3954 989 988	-5.9	0.000 000	-0.001
	100 %	0	3954 989 994	0.2	0.000 000	0.000
	100 %	+10	3954 989 989	-4.5	0.000 000	-0.001
	100 %	+30	3954 989 991	-2.7	0.000 000	-0.001
	100 %	+40	3954 989 990	-3.6	0.000 000	-0.001
	100 %	+50	3954 989 983	-10.3	0.000 000	-0.003
	Batt. Endpoint	+20	3954 989 986	-7.5	0.000 000	-0.002

- BandWidth: 60 MHz
- Voltage(100 %): 3.880 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 019 997	0.0	0.000 000	0.000
	100 %	-30	3730 019 998	1.3	0.000 000	0.000
	100 %	-20	3730 019 999	2.8	0.000 000	0.001
	100 %	-10	3730 020 001	3.9	0.000 000	0.001
	100 %	0	3730 019 999	2.5	0.000 000	0.001
	100 %	+10	3730 019 996	-0.2	0.000 000	0.000
	100 %	+30	3730 019 997	0.8	0.000 000	0.000
	100 %	+40	3730 020 000	3.0	0.000 000	0.001
	100 %	+50	3730 019 995	-1.1	0.000 000	0.000
	Batt. Endpoint	+20	3730 019 996	-0.1	0.000 000	0.000
3949.980	100 %	+20(Ref)	3949 979 999	0.0	0.000 000	0.000
	100 %	-30	3949 979 996	-3.0	0.000 000	-0.001
	100 %	-20	3949 979 996	-2.4	0.000 000	-0.001
	100 %	-10	3949 979 995	-3.9	0.000 000	-0.001
	100 %	0	3949 979 990	-8.4	0.000 000	-0.002
	100 %	+10	3949 979 994	-4.6	0.000 000	-0.001
	100 %	+30	3949 979 996	-2.6	0.000 000	-0.001
	100 %	+40	3949 979 994	-4.5	0.000 000	-0.001
	100 %	+50	3949 980 000	1.7	0.000 000	0.000
	Batt. Endpoint	+20	3949 979 995	-3.4	0.000 000	-0.001

- BandWidth: 70 MHz
- Voltage(100 %): 3.880 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 999 996	0.0	0.000 000	0.000
	100 %	-30	3734 999 991	-5.3	0.000 000	-0.001
	100 %	-20	3734 999 998	1.6	0.000 000	0.000
	100 %	-10	3734 999 998	1.8	0.000 000	0.000
	100 %	0	3734 999 994	-2.5	0.000 000	-0.001
	100 %	+10	3734 999 994	-1.7	0.000 000	0.000
	100 %	+30	3734 999 996	0.3	0.000 000	0.000
	100 %	+40	3734 999 991	-5.1	0.000 000	-0.001
	100 %	+50	3734 999 991	-4.8	0.000 000	-0.001
	Batt. Endpoint	+20	3734 999 991	-4.7	0.000 000	-0.001
3945.000	100 %	+20(Ref)	3944 999 989	0.0	0.000 000	0.000
	100 %	-30	3944 999 978	-10.9	0.000 000	-0.003
	100 %	-20	3944 999 988	-1.4	0.000 000	0.000
	100 %	-10	3944 999 991	1.3	0.000 000	0.000
	100 %	0	3944 999 978	-11.3	0.000 000	-0.003
	100 %	+10	3944 999 985	-4.1	0.000 000	-0.001
	100 %	+30	3944 999 985	-3.9	0.000 000	-0.001
	100 %	+40	3944 999 984	-5.6	0.000 000	-0.001
	100 %	+50	3944 999 982	-7.7	0.000 000	-0.002
	Batt. Endpoint	+20	3944 999 977	-12.1	0.000 000	-0.003

- BandWidth: 80 MHz
- Voltage(100 %): 3.880 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 009 997	0.0	0.000 000	0.000
	100 %	-30	3740 009 992	-5.3	0.000 000	-0.001
	100 %	-20	3740 009 995	-2.7	0.000 000	-0.001
	100 %	-10	3740 009 990	-7.1	0.000 000	-0.002
	100 %	0	3740 009 993	-3.9	0.000 000	-0.001
	100 %	+10	3740 009 994	-3.4	0.000 000	-0.001
	100 %	+30	3740 009 990	-7.5	0.000 000	-0.002
	100 %	+40	3740 009 996	-1.4	0.000 000	0.000
	100 %	+50	3740 009 999	2.0	0.000 000	0.001
	Batt. Endpoint	+20	3740 009 989	-8.3	0.000 000	-0.002
3939.990	100 %	+20(Ref)	3939 990 000	0.0	0.000 000	0.000
	100 %	-30	3939 990 001	0.7	0.000 000	0.000
	100 %	-20	3939 990 002	2.2	0.000 000	0.001
	100 %	-10	3939 990 002	2.2	0.000 000	0.001
	100 %	0	3939 990 000	0.2	0.000 000	0.000
	100 %	+10	3939 989 996	-3.7	0.000 000	-0.001
	100 %	+30	3939 990 002	2.3	0.000 000	0.001
	100 %	+40	3939 989 996	-4.1	0.000 000	-0.001
	100 %	+50	3939 989 996	-4.1	0.000 000	-0.001
	Batt. Endpoint	+20	3939 990 006	6.3	0.000 000	0.002

- BandWidth: 90 MHz
- Voltage(100 %): 3.880 VDC
- Batt. Endpoint: 3.400 VDC
- LIMIT: Emission must remain in band

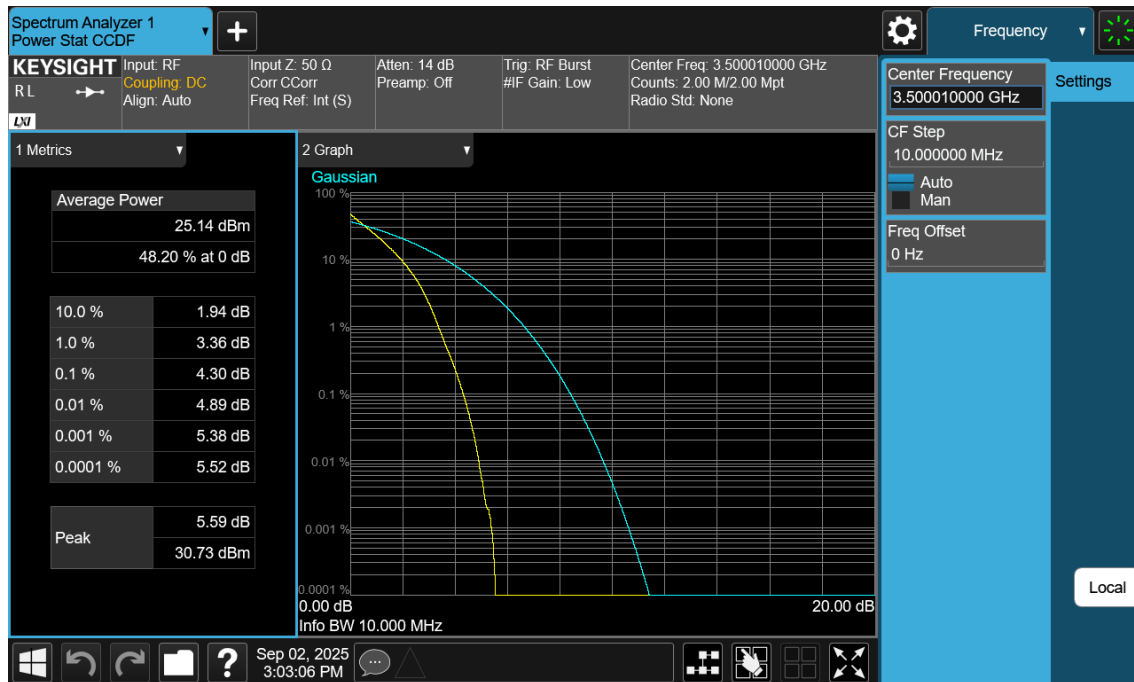
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3745.020	100 %	+20(Ref)	3745 019 994	0.0	0.000 000	0.000
	100 %	-30	3745 019 986	-8.6	0.000 000	-0.002
	100 %	-20	3745 019 989	-5.7	0.000 000	-0.002
	100 %	-10	3745 019 985	-9.8	0.000 000	-0.003
	100 %	0	3745 019 981	-13.6	0.000 000	-0.004
	100 %	+10	3745 019 984	-10.2	0.000 000	-0.003
	100 %	+30	3745 019 985	-9.1	0.000 000	-0.002
	100 %	+40	3745 019 980	-14.8	0.000 000	-0.004
	100 %	+50	3745 019 991	-2.9	0.000 000	-0.001
	Batt. Endpoint	+20	3745 019 989	-5.2	0.000 000	-0.001
3934.980	100 %	+20(Ref)	3934 979 998	0.0	0.000 000	0.000
	100 %	-30	3934 979 999	0.7	0.000 000	0.000
	100 %	-20	3934 979 996	-2.3	0.000 000	-0.001
	100 %	-10	3934 980 000	2.0	0.000 000	0.001
	100 %	0	3934 980 002	3.6	0.000 000	0.001
	100 %	+10	3934 980 004	5.7	0.000 000	0.001
	100 %	+30	3934 980 004	5.7	0.000 000	0.001
	100 %	+40	3934 979 995	-2.9	0.000 000	-0.001
	100 %	+50	3934 979 998	-0.7	0.000 000	0.000
	Batt. Endpoint	+20	3934 979 997	-1.1	0.000 000	0.000

- BandWidth: 100 MHz
- Voltage(100 %): 3.880 VDC
- Batt. Endpoint: 3.400 VDC
- LIMIT: Emission must remain in band

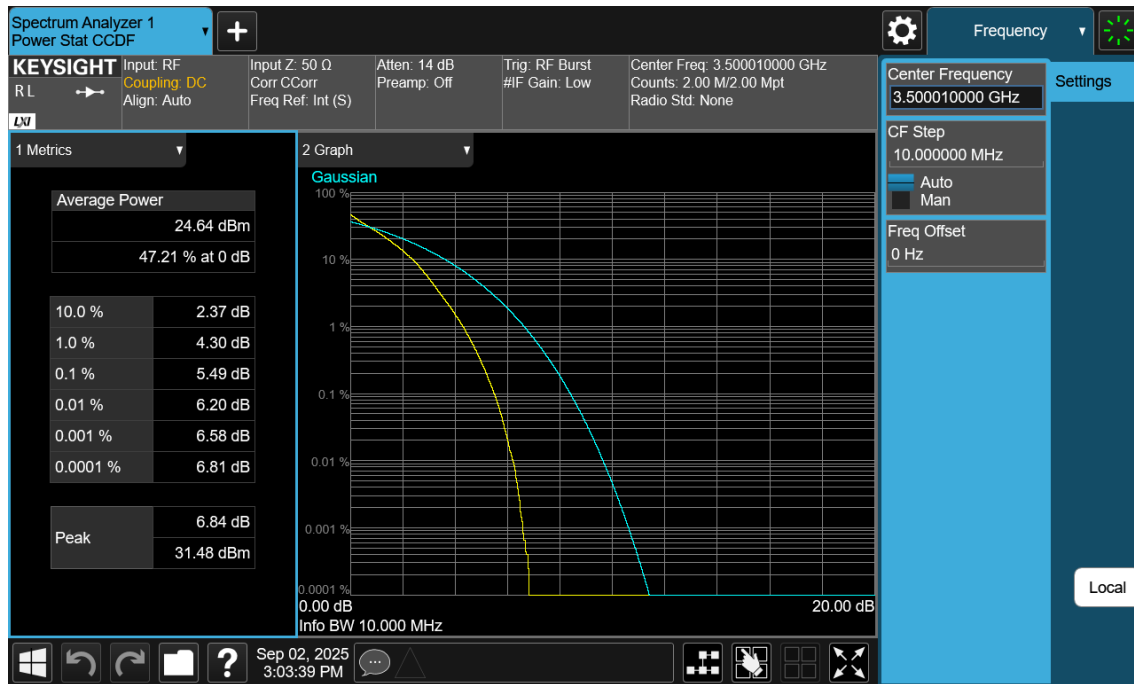
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3750.000	100 %	+20(Ref)	3749 999 997	0.0	0.000 000	0.000
	100 %	-30	3749 999 992	-4.9	0.000 000	-0.001
	100 %	-20	3749 999 991	-6.5	0.000 000	-0.002
	100 %	-10	3749 999 995	-1.9	0.000 000	0.000
	100 %	0	3749 999 992	-5.1	0.000 000	-0.001
	100 %	+10	3749 999 994	-2.8	0.000 000	-0.001
	100 %	+30	3750 000 001	4.0	0.000 000	0.001
	100 %	+40	3749 999 990	-6.6	0.000 000	-0.002
	100 %	+50	3749 999 993	-4.5	0.000 000	-0.001
	Batt. Endpoint	+20	3749 999 994	-3.6	0.000 000	-0.001
3930.000	100 %	+20(Ref)	3929 999 993	0.0	0.000 000	0.000
	100 %	-30	3929 999 989	-4.7	0.000 000	-0.001
	100 %	-20	3929 999 994	0.3	0.000 000	0.000
	100 %	-10	3929 999 993	-0.5	0.000 000	0.000
	100 %	0	3929 999 989	-4.2	0.000 000	-0.001
	100 %	+10	3929 999 992	-0.9	0.000 000	0.000
	100 %	+30	3929 999 992	-1.0	0.000 000	0.000
	100 %	+40	3929 999 999	5.5	0.000 000	0.001
	100 %	+50	3929 999 990	-3.4	0.000 000	-0.001
	Batt. Endpoint	+20	3929 999 989	-4.6	0.000 000	-0.001

10. TEST PLOTS(3450 MHz - 3550 MHz)

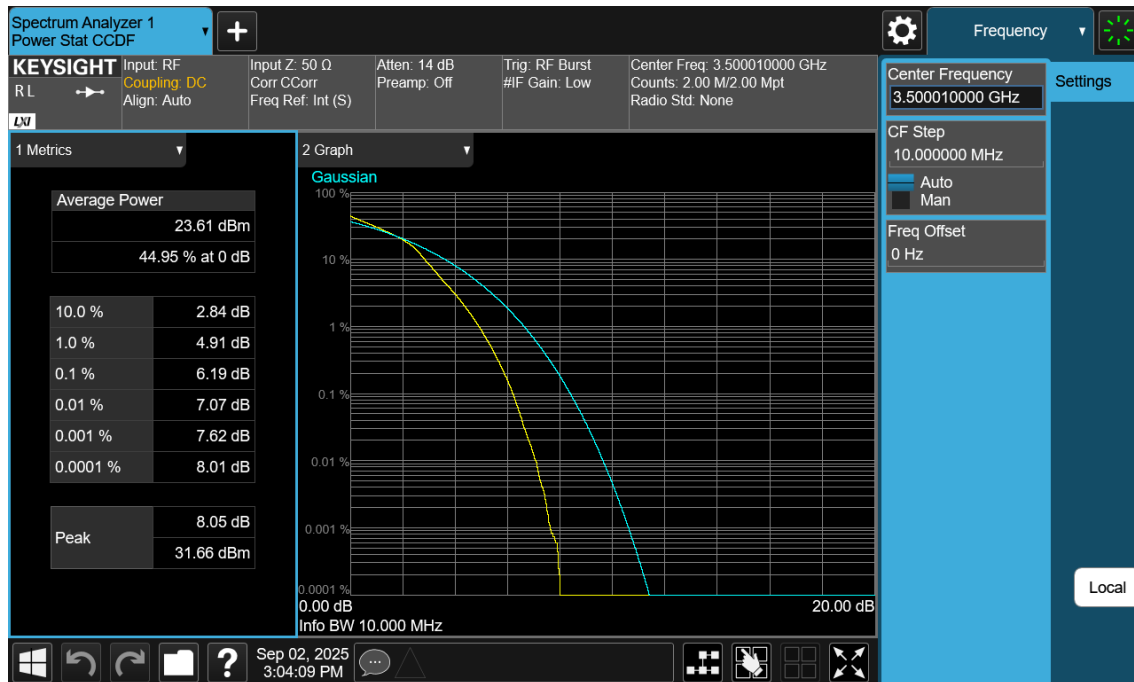
n77(3450~3550 MHz)_10 M_PAR_Mid_BPSK_FullRB



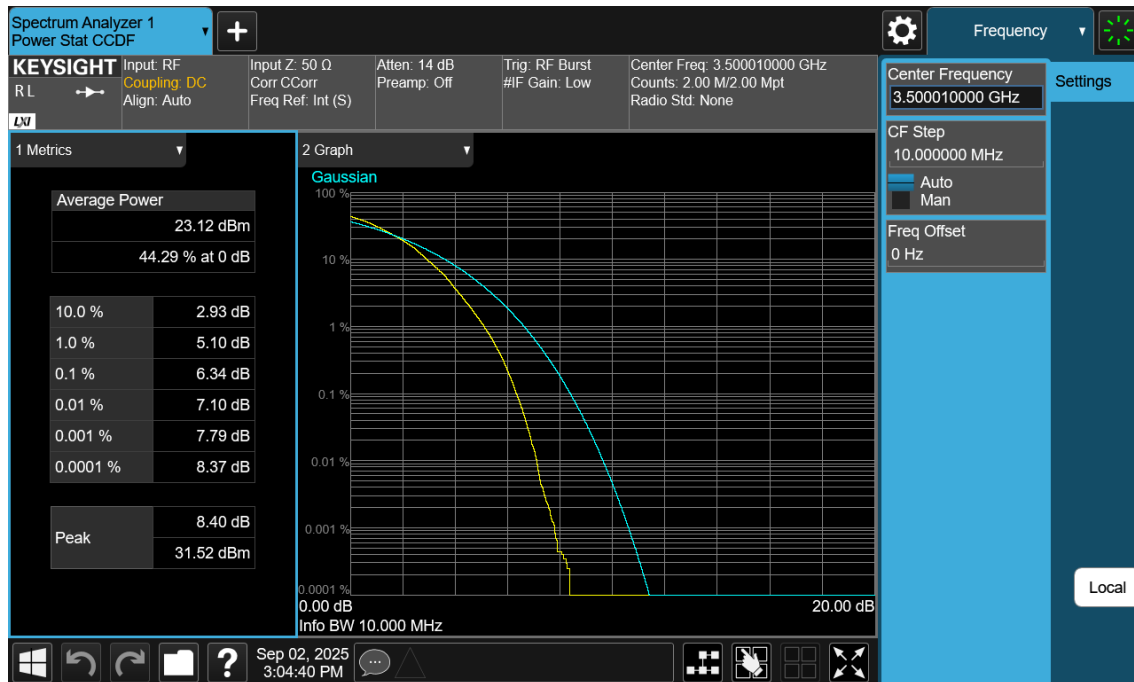
n77(3450~3550 MHz)_10 M_PAR_Mid_QPSK_FullRB



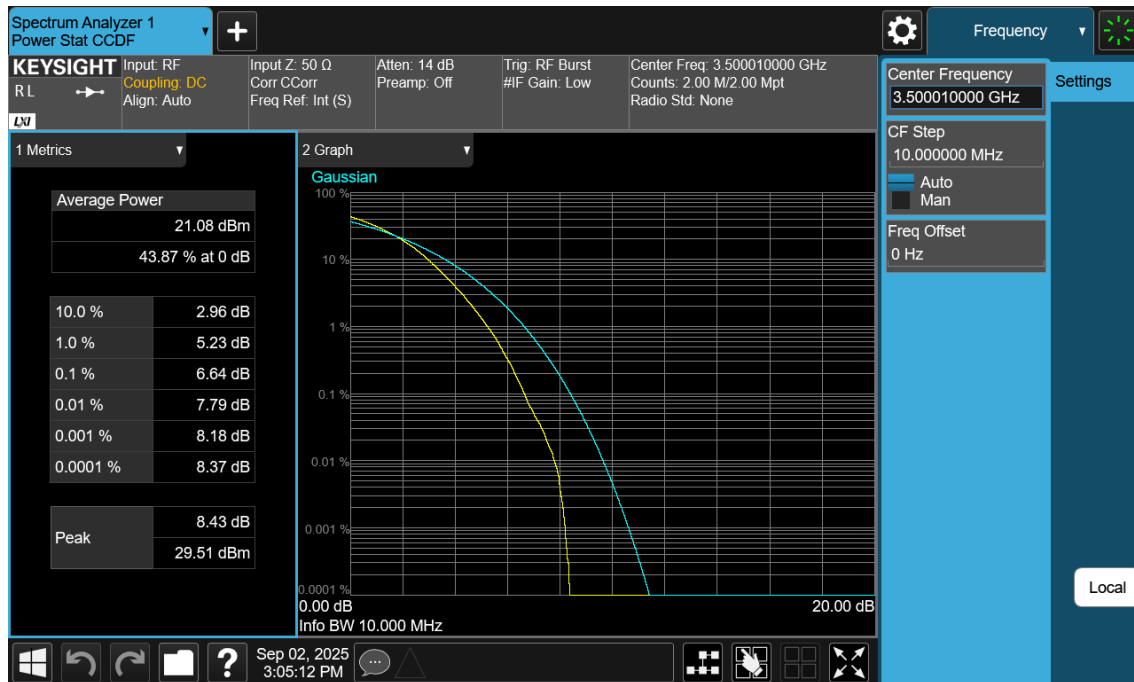
n77(3450~3550 MHz)_10 M_PAR_Mid_16QAM_FullRB



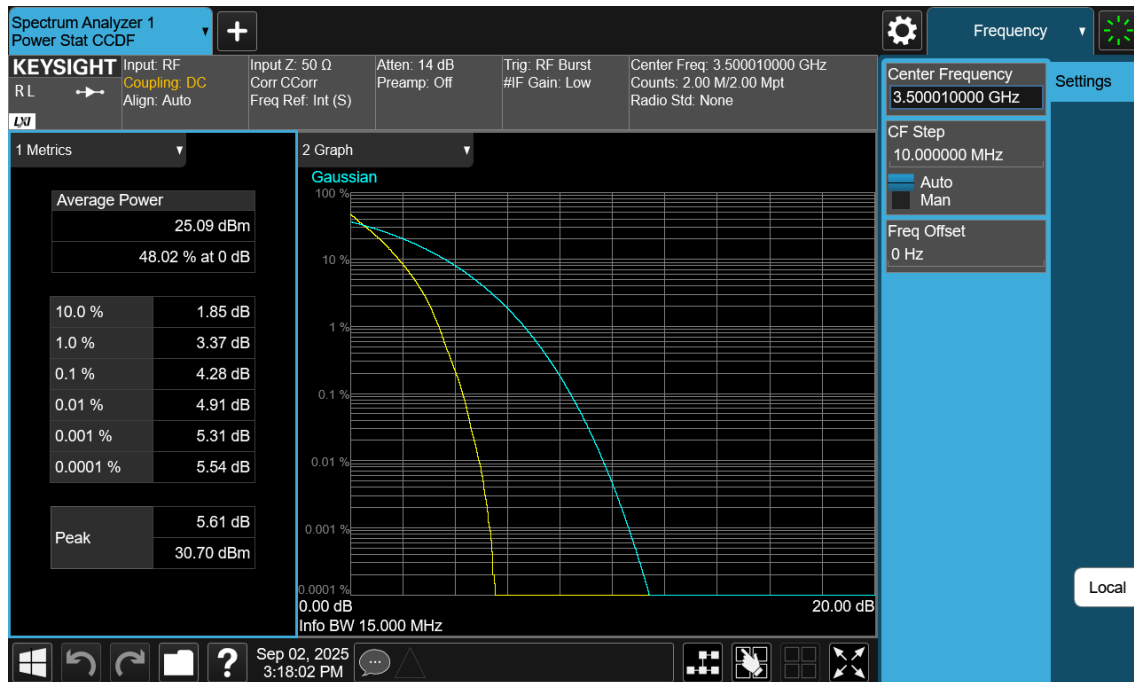
n77(3450~3550 MHz)_10 M_PAR_Mid_64QAM_FullRB



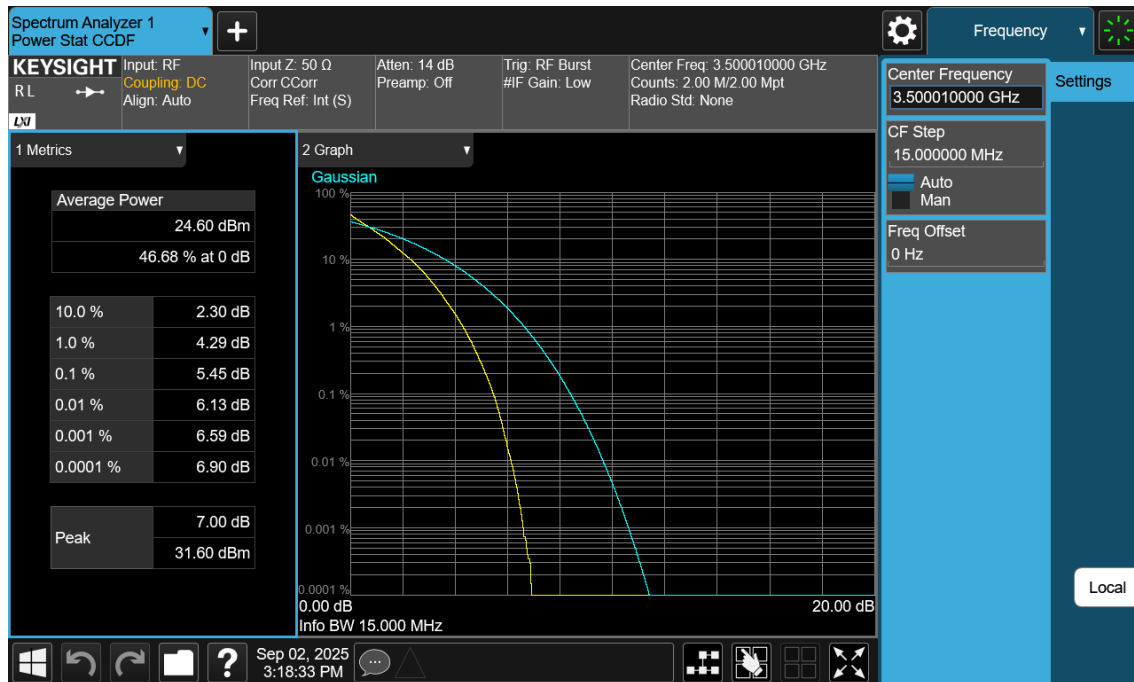
n77(3450~3550 MHz)_10 M_PAR_Mid_256QAM_FullRB



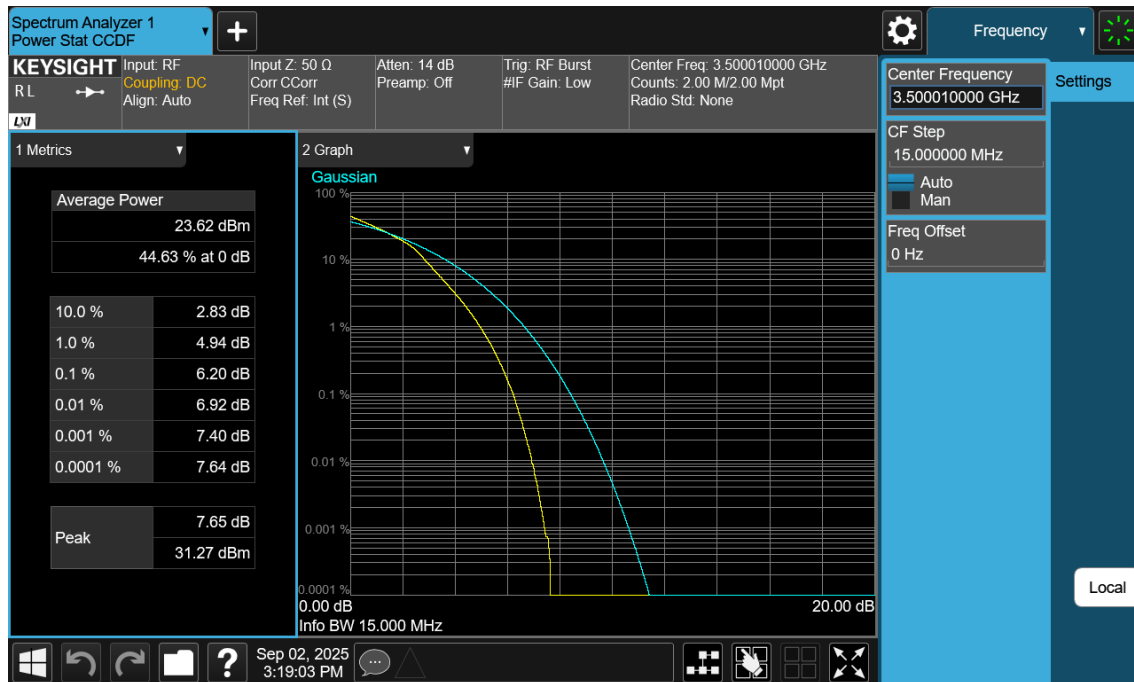
n77(3450~3550 MHz)_15 M_PAR_Mid_BPSK_FullRB



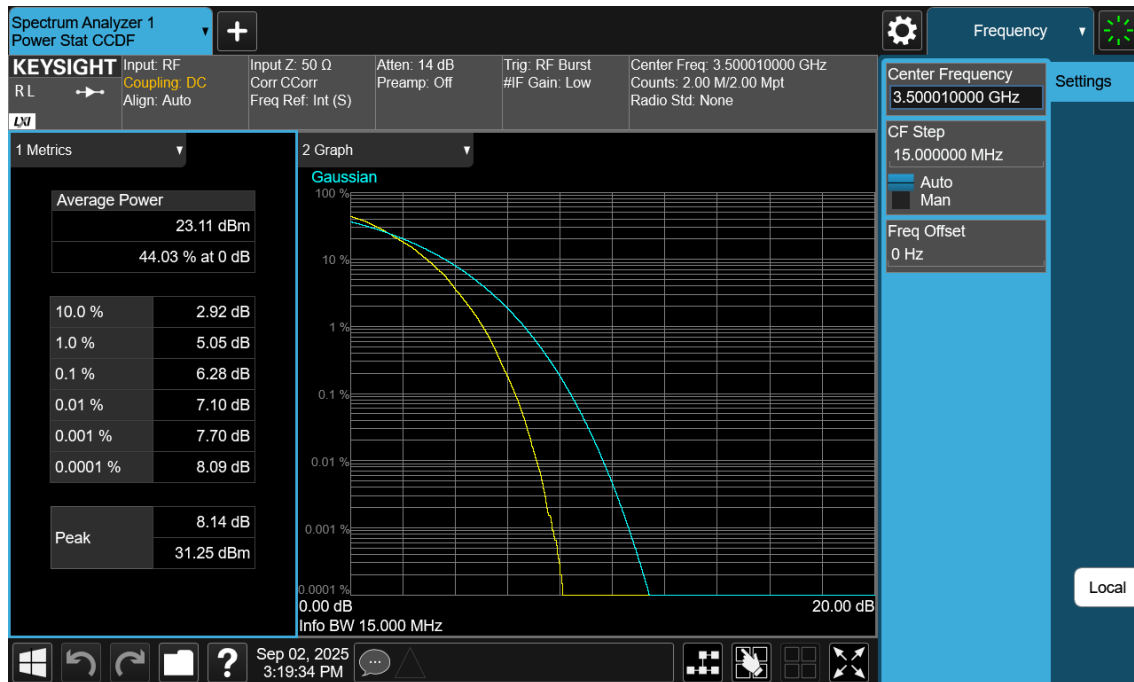
n77(3450~3550 MHz)_15 M_PAR_Mid_QPSK_FullRB



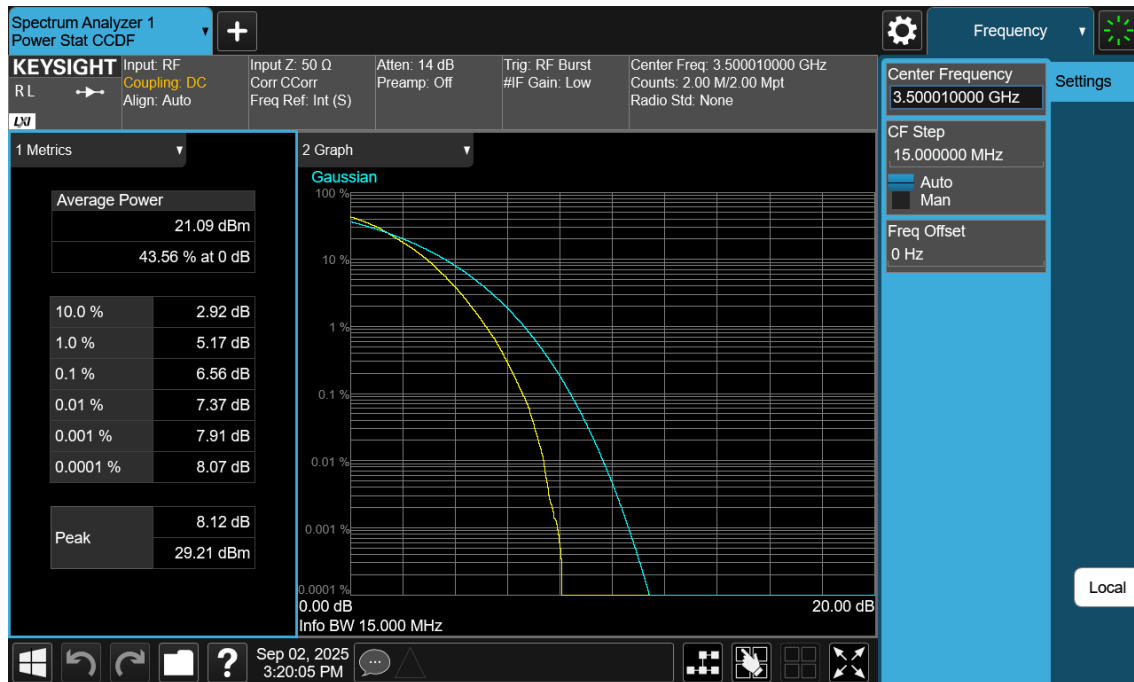
n77(3450~3550 MHz)_15 M_PAR_Mid_16QAM_FullRB



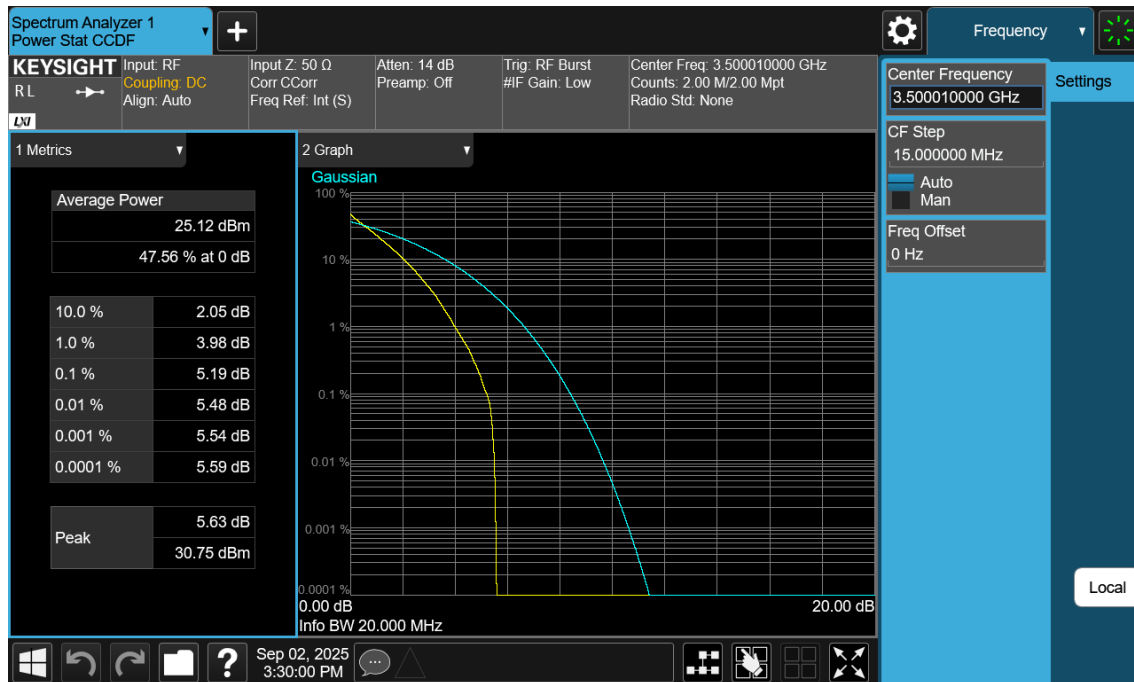
n77(3450~3550 MHz)_15 M_PAR_Mid_64QAM_FullRB



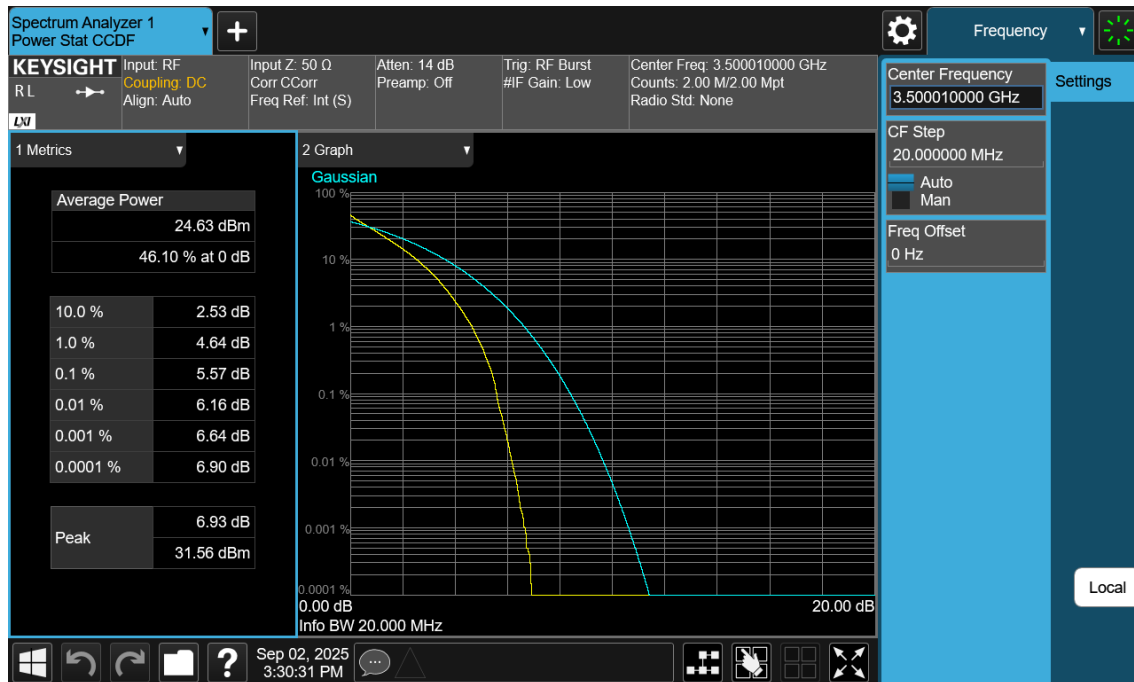
n77(3450~3550 MHz)_15 M_PAR_Mid_256QAM_FullRB



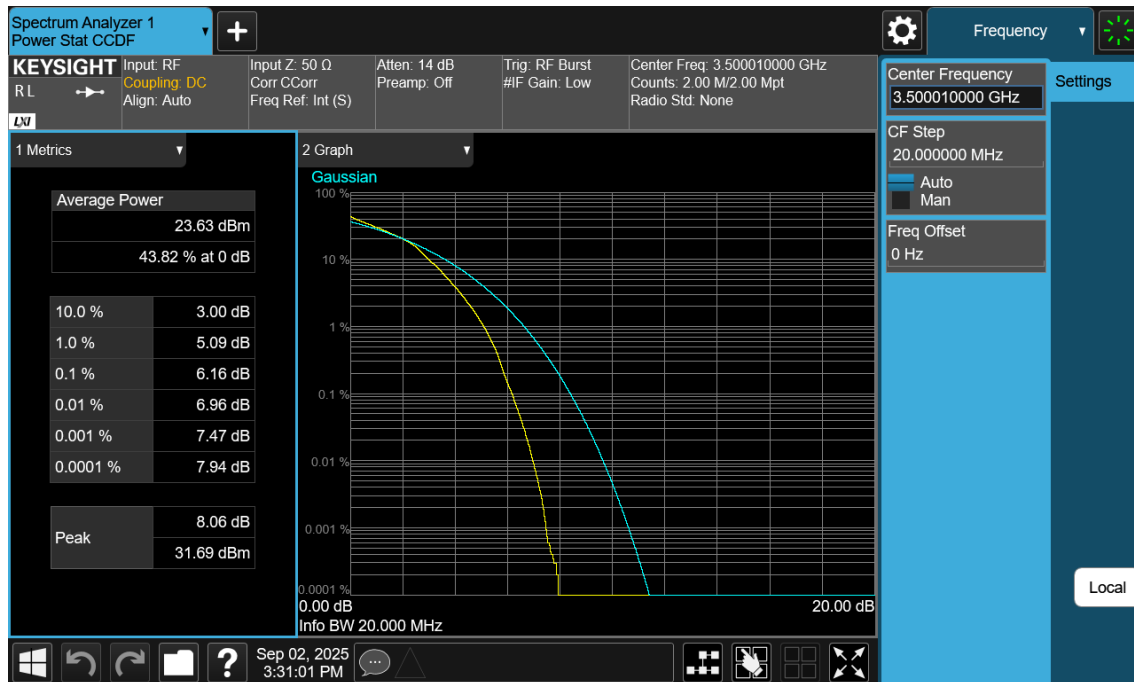
n77(3450~3550 MHz)_20 M_PAR_Mid_BPSK_FullRB



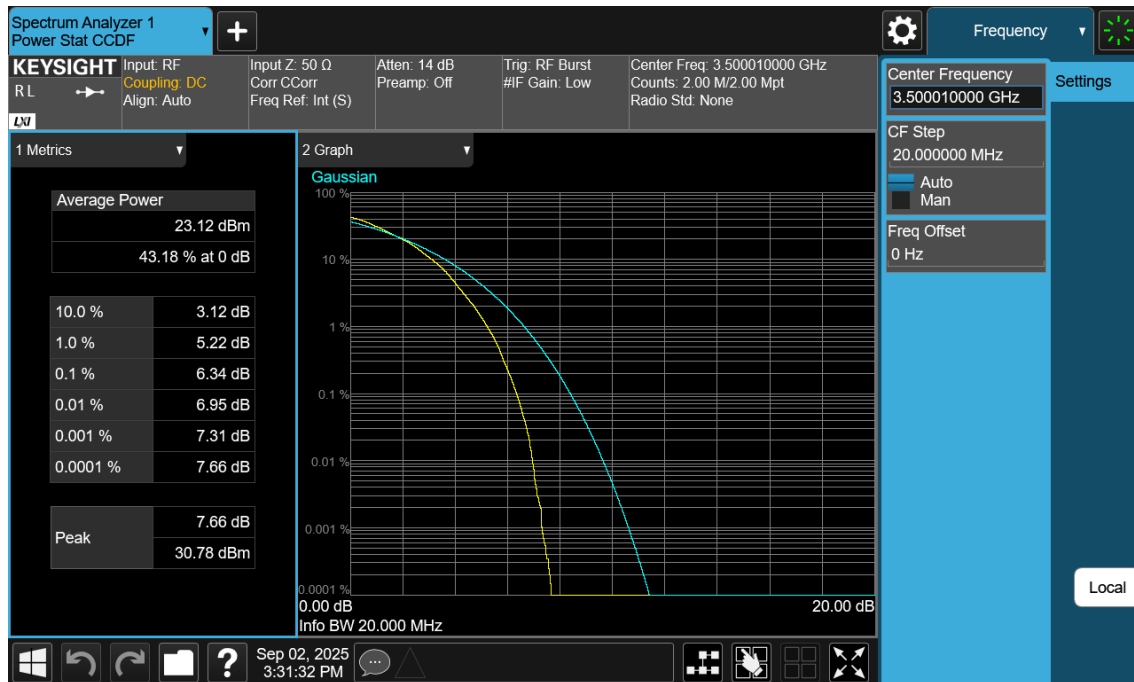
n77(3450~3550 MHz)_20 M_PAR_Mid_QPSK_FullRB



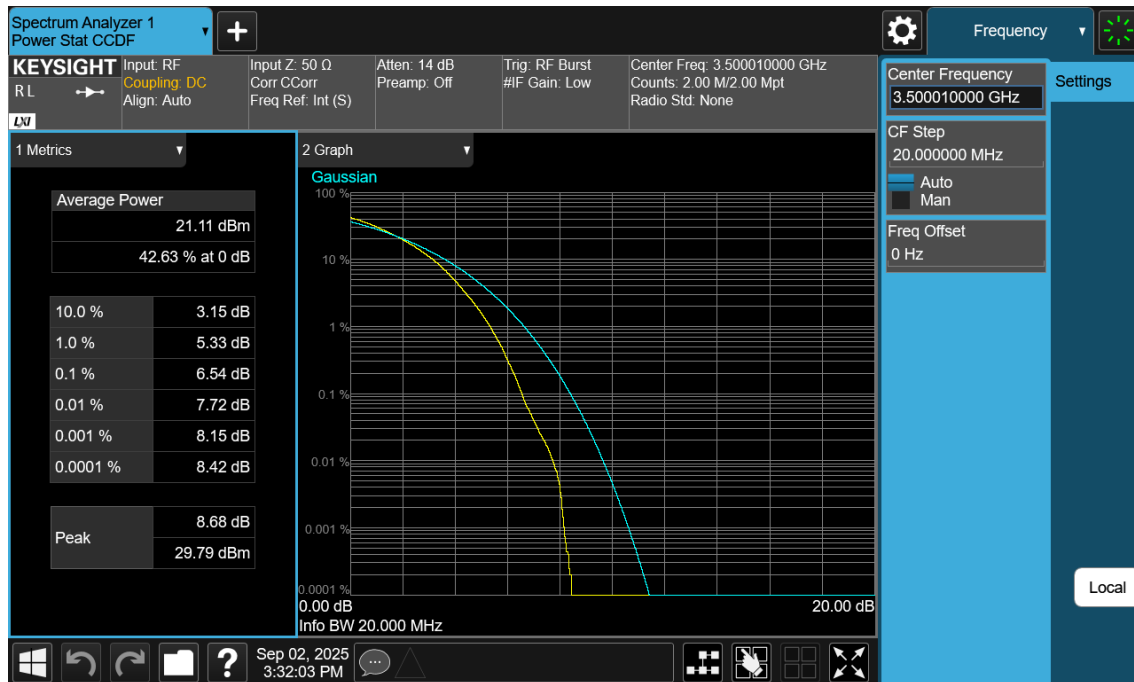
n77(3450~3550 MHz)_20 M_PAR_Mid_16QAM_FullRB



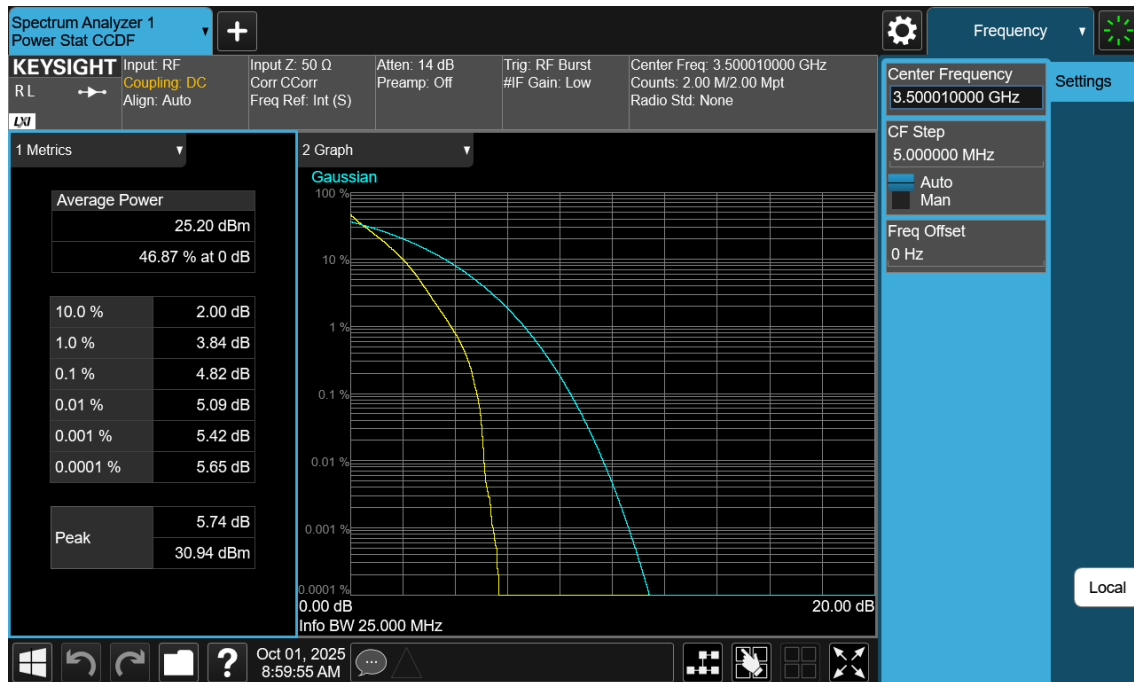
n77(3450~3550 MHz)_20 M_PAR_Mid_64QAM_FullRB



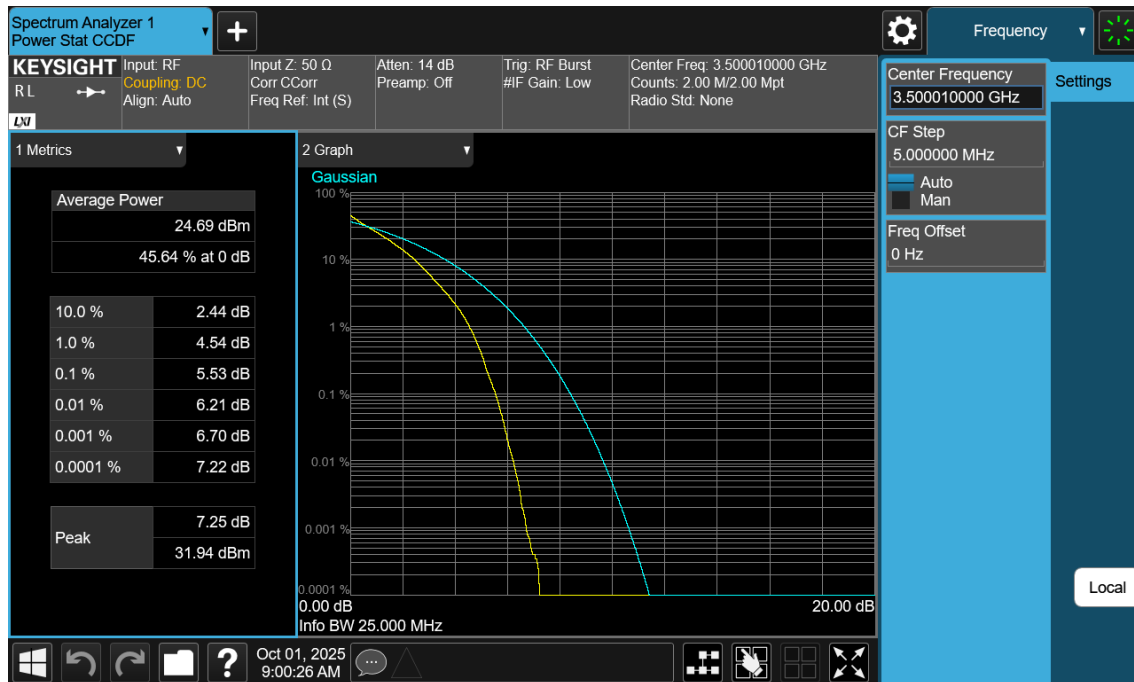
n77(3450~3550 MHz)_20 M_PAR_Mid_256QAM_FullRB



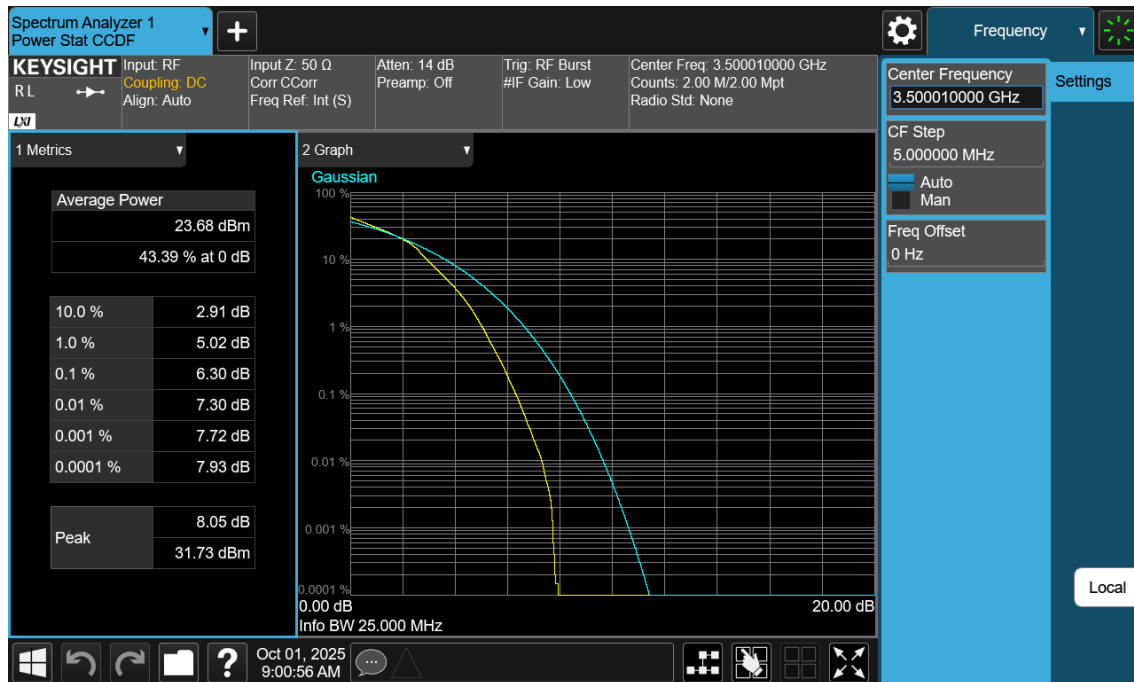
n77(3450~3550 MHz)_25 M_PAR_Mid_BPSK_FullRB



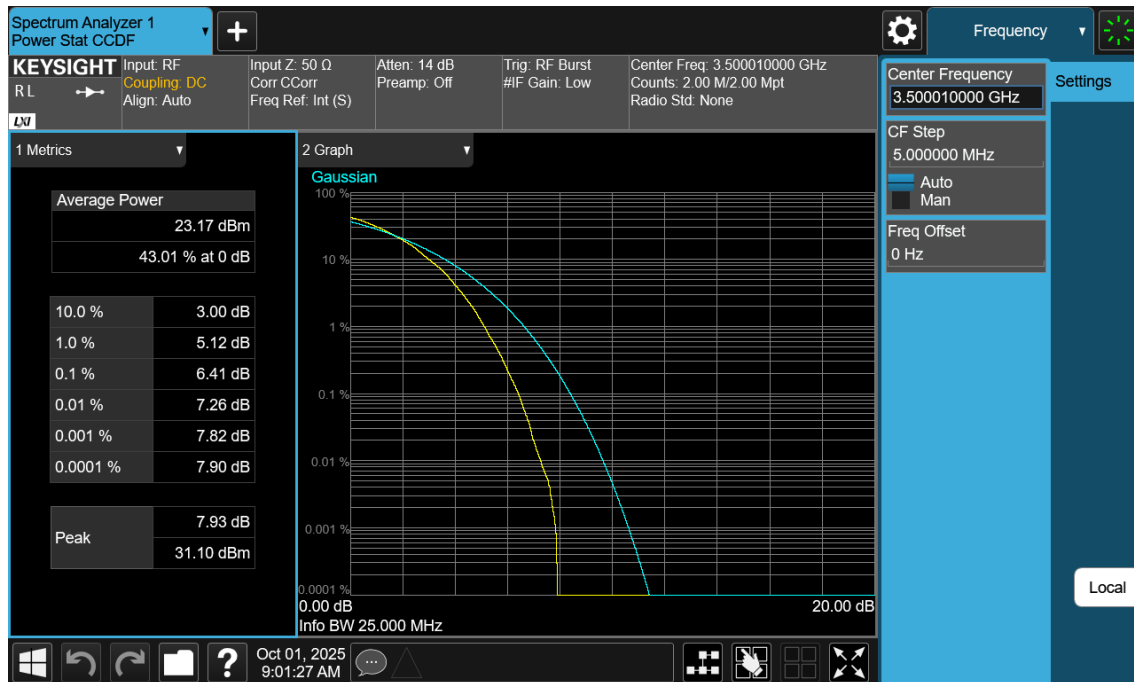
n77(3450~3550 MHz)_25 M_PAR_Mid_QPSK_FullRB



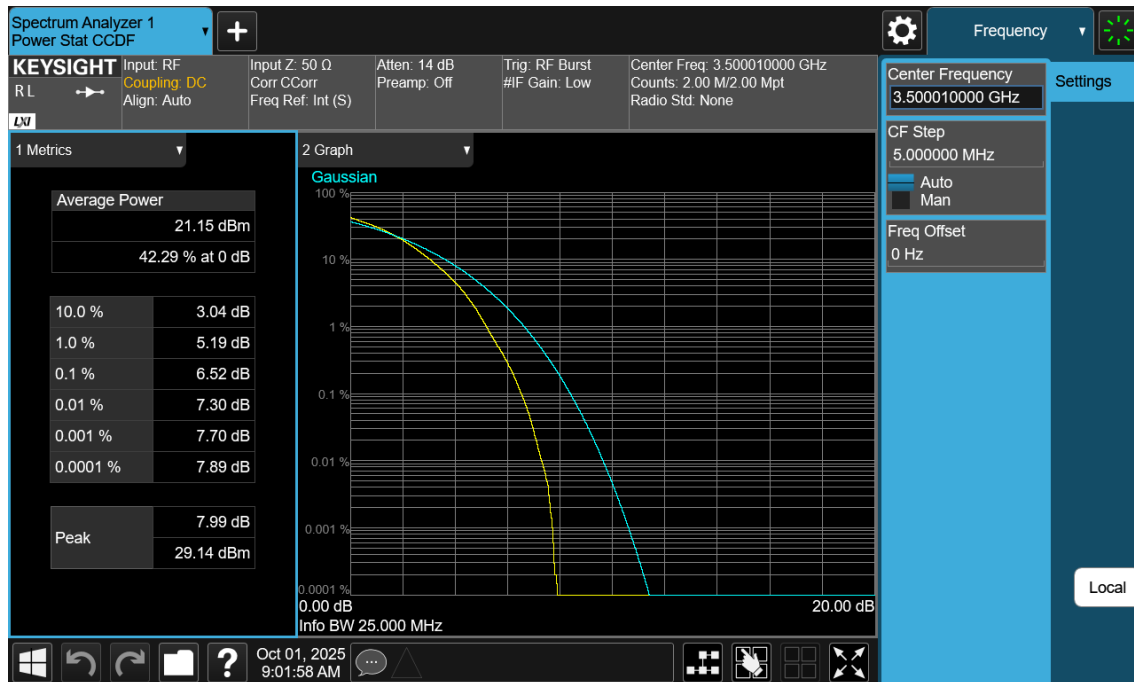
n77(3450~3550 MHz)_25 M_PAR_Mid_16QAM_FullRB



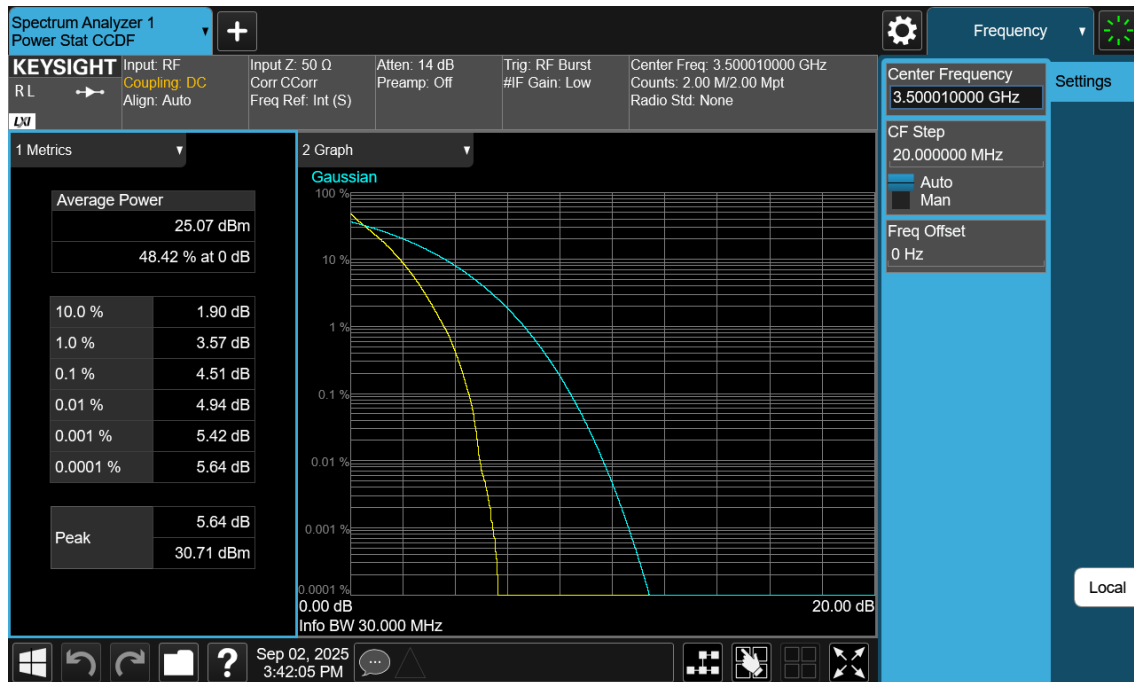
n77(3450~3550 MHz)_25 M_PAR_Mid_64QAM_FullRB



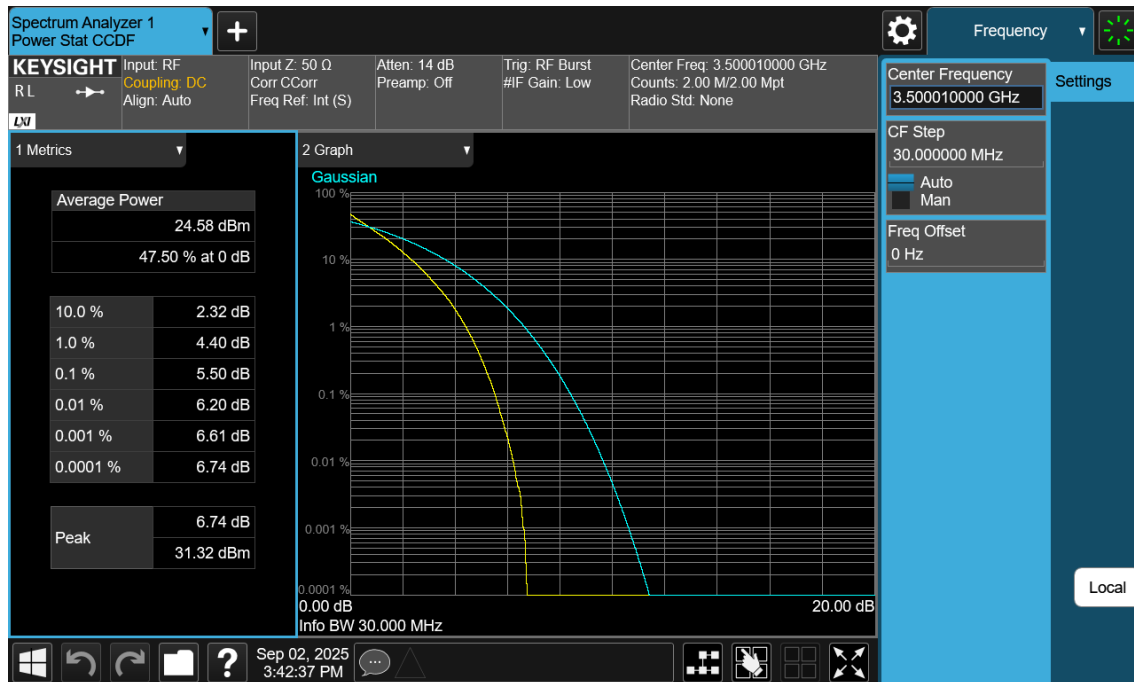
n77(3450~3550 MHz)_25 M_PAR_Mid_256QAM_FullRB



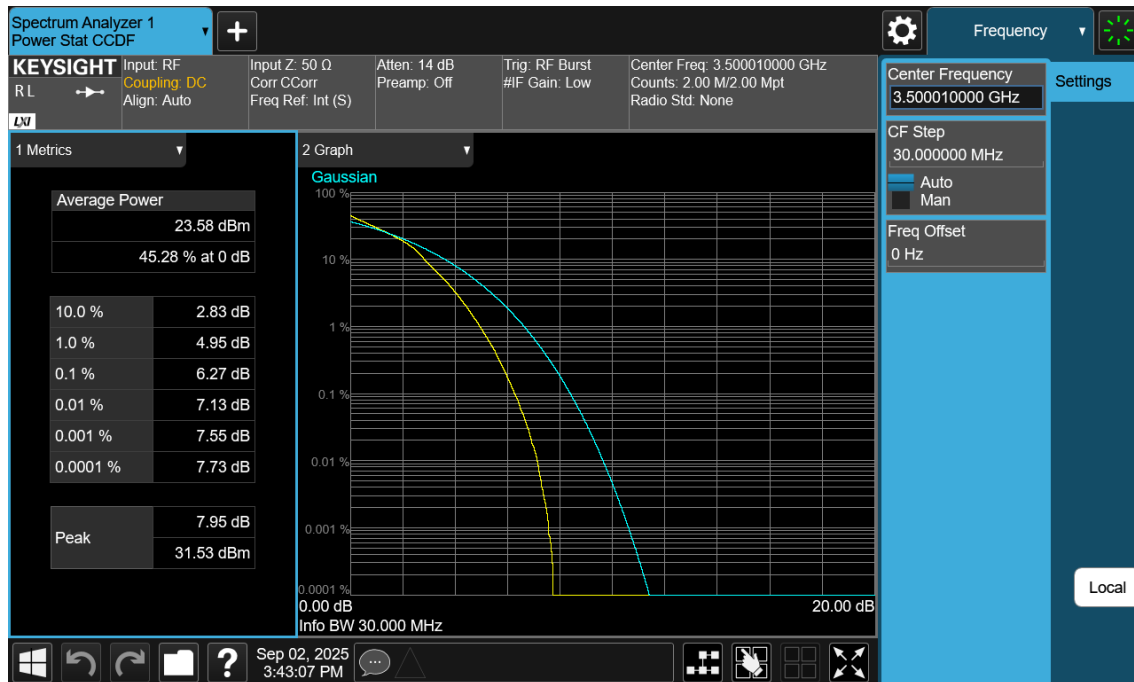
n77(3450~3550 MHz)_30 M_PAR_Mid_BPSK_FullRB



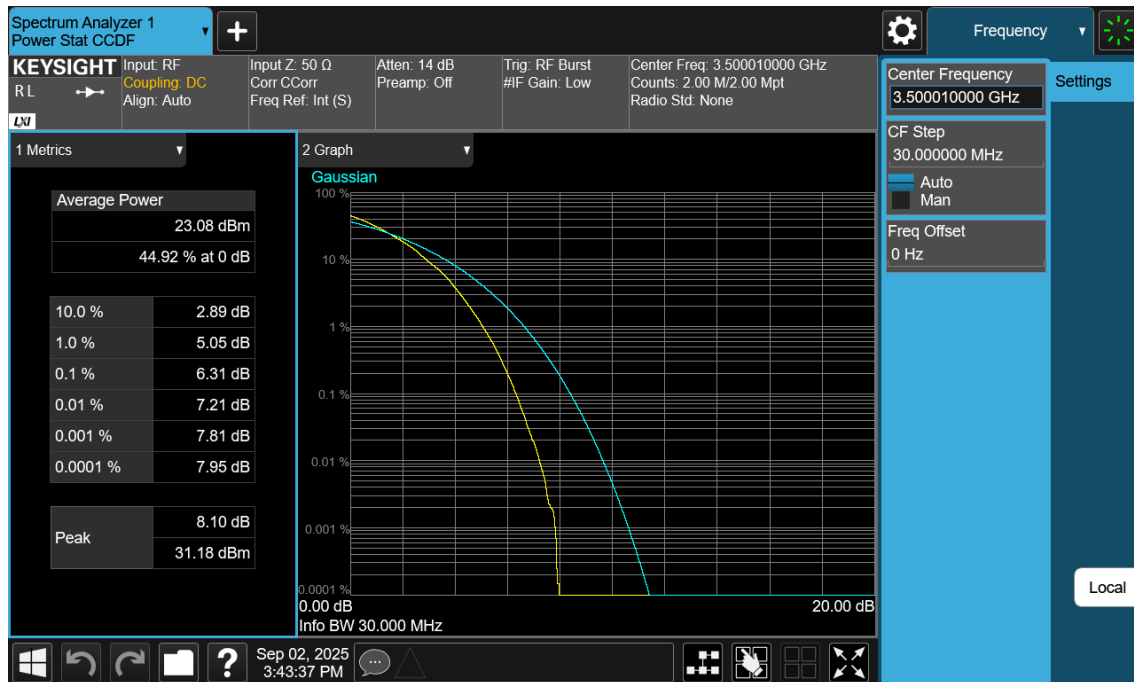
n77(3450~3550 MHz)_30 M_PAR_Mid_QPSK_FullRB



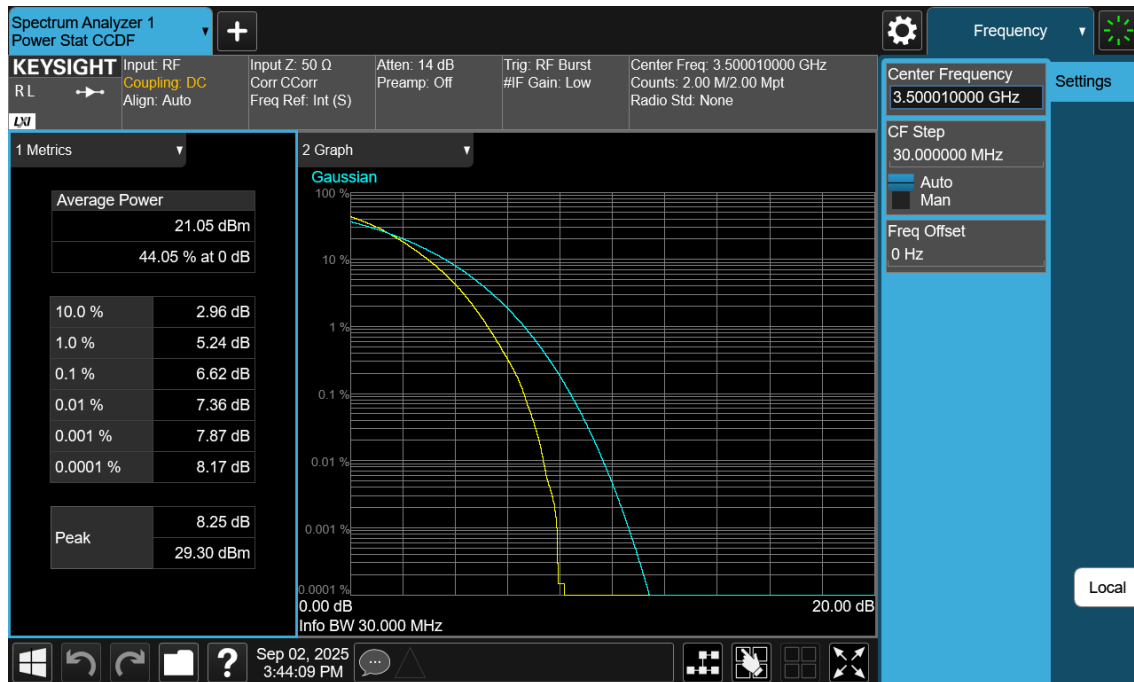
n77(3450~3550 MHz)_30 M_PAR_Mid_16QAM_FullRB



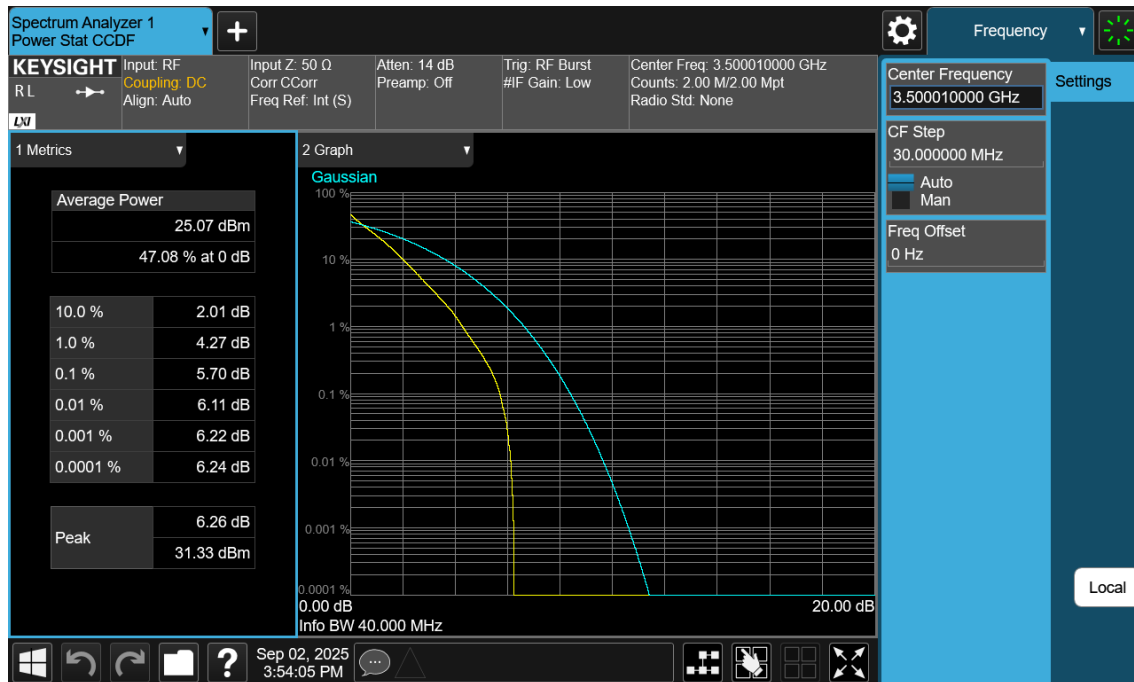
n77(3450~3550 MHz)_30 M_PAR_Mid_64QAM_FullRB



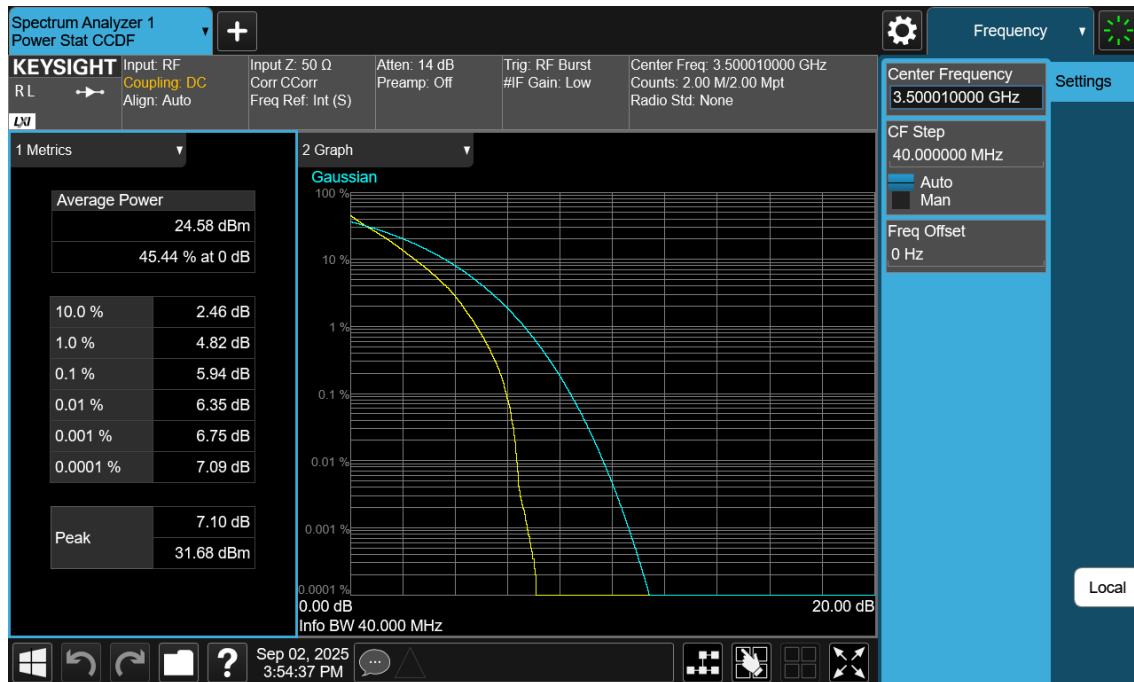
n77(3450~3550 MHz)_30 M_PAR_Mid_256QAM_FullRB



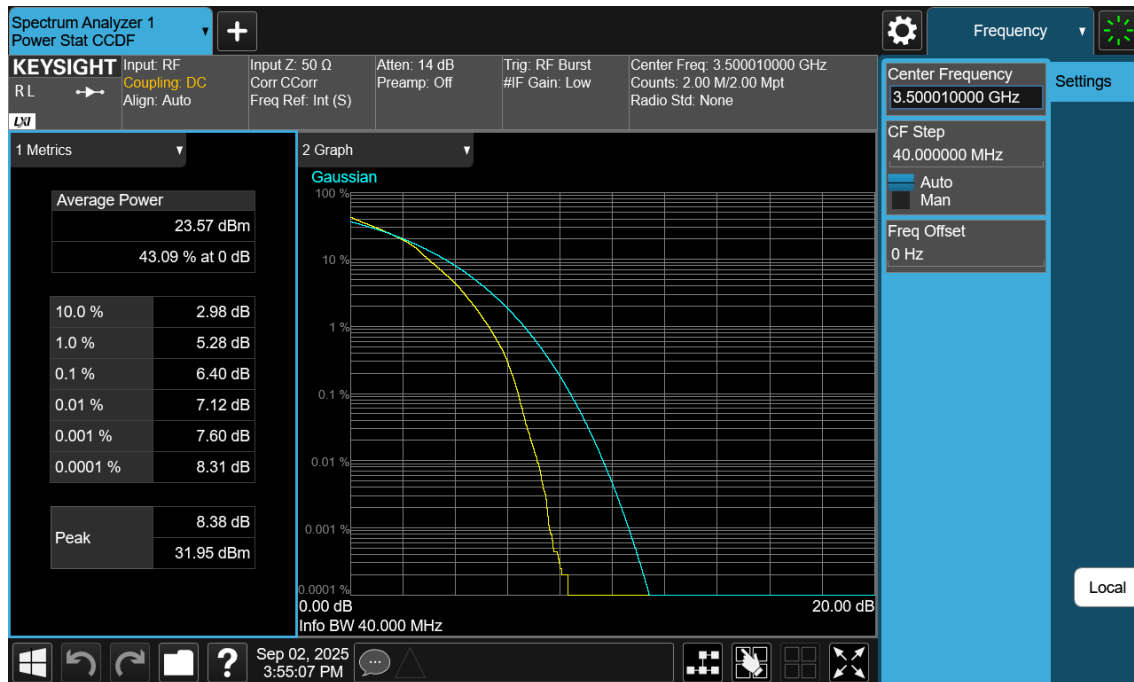
n77(3450~3550 MHz)_40 M_PAR_Mid_BPSK_FullRB



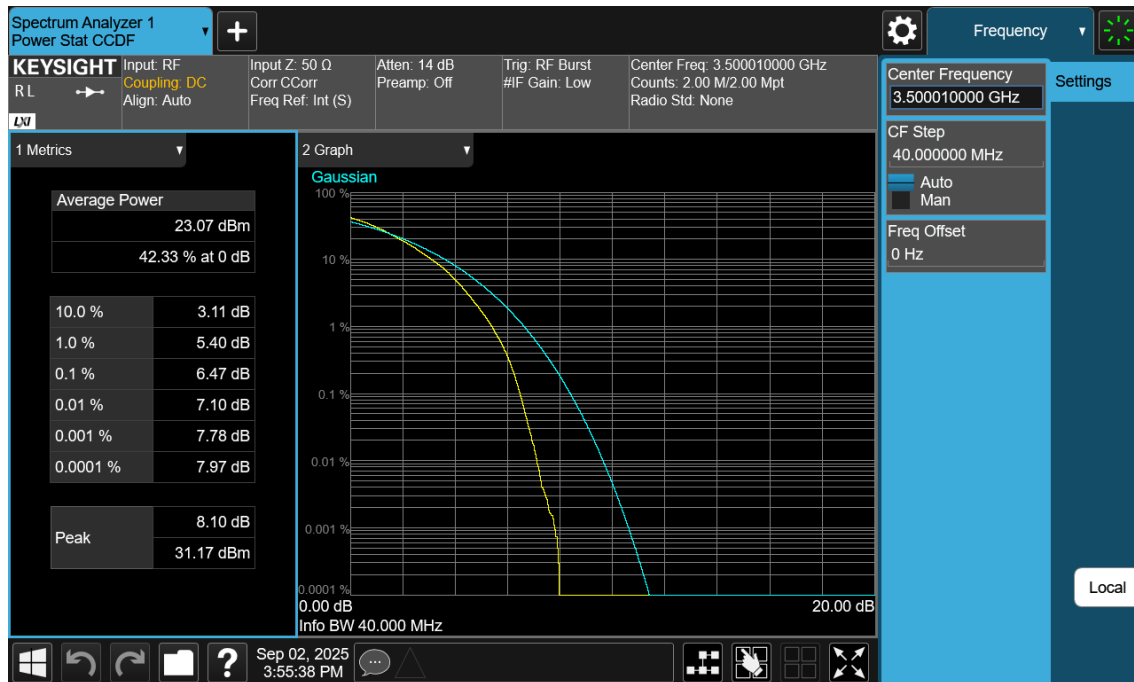
n77(3450~3550 MHz)_40 M_PAR_Mid_QPSK_FullRB



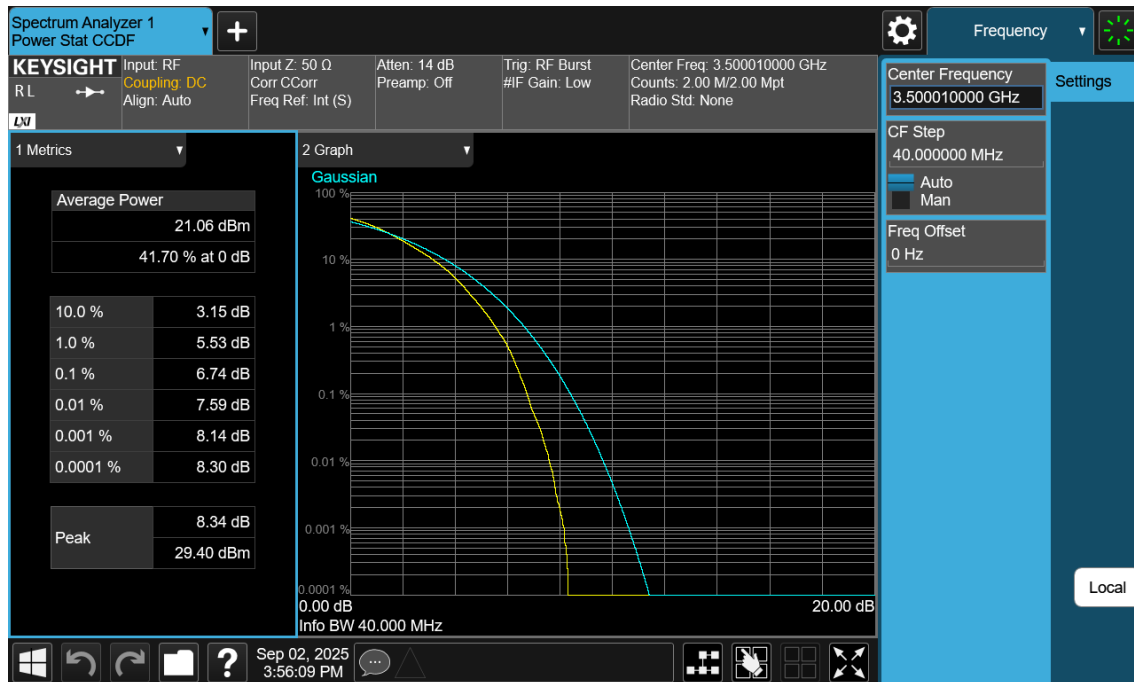
n77(3450~3550 MHz)_40 M_PAR_Mid_16QAM_FullRB



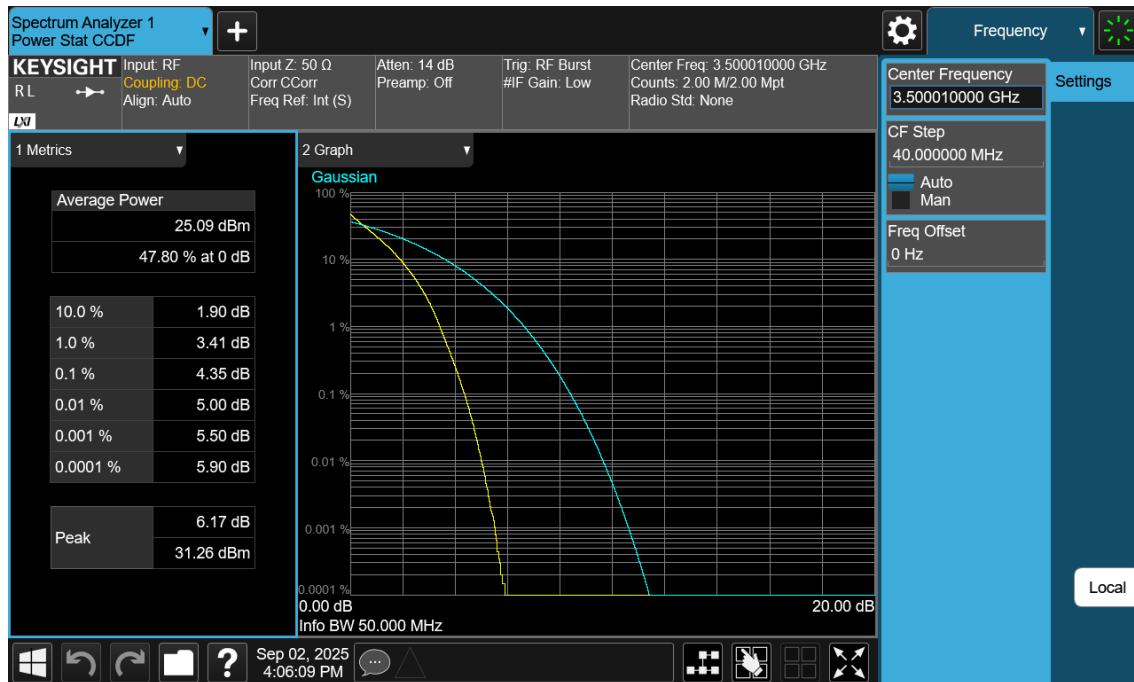
n77(3450~3550 MHz)_40 M_PAR_Mid_64QAM_FullRB



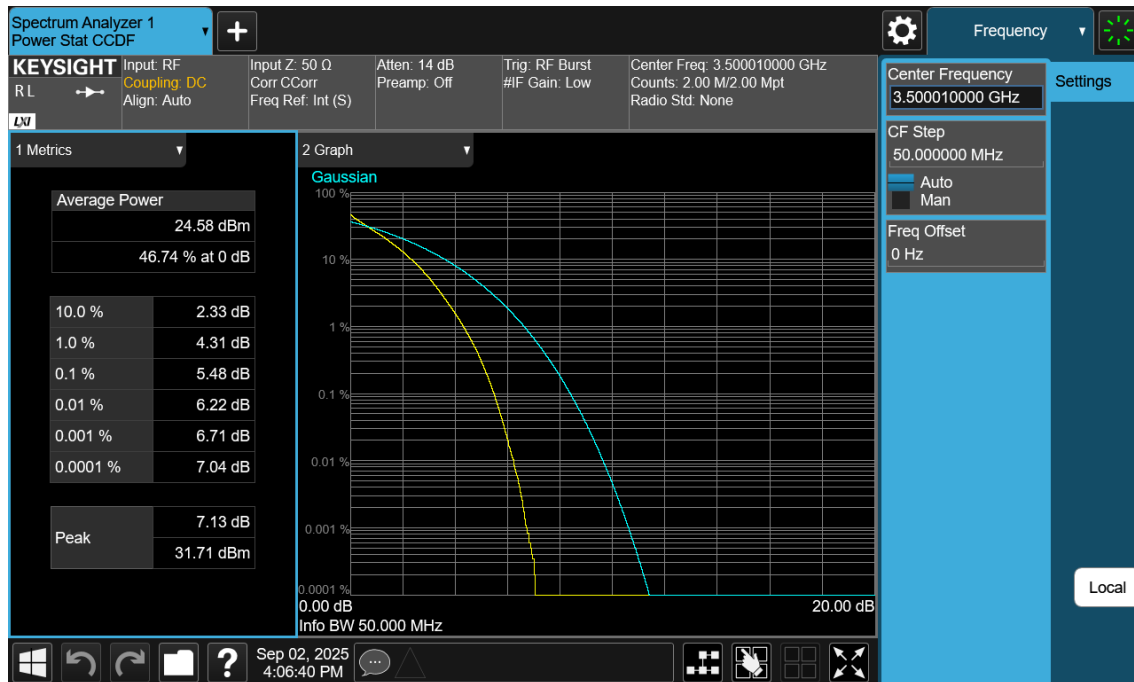
n77(3450~3550 MHz)_40 M_PAR_Mid_256QAM_FullRB



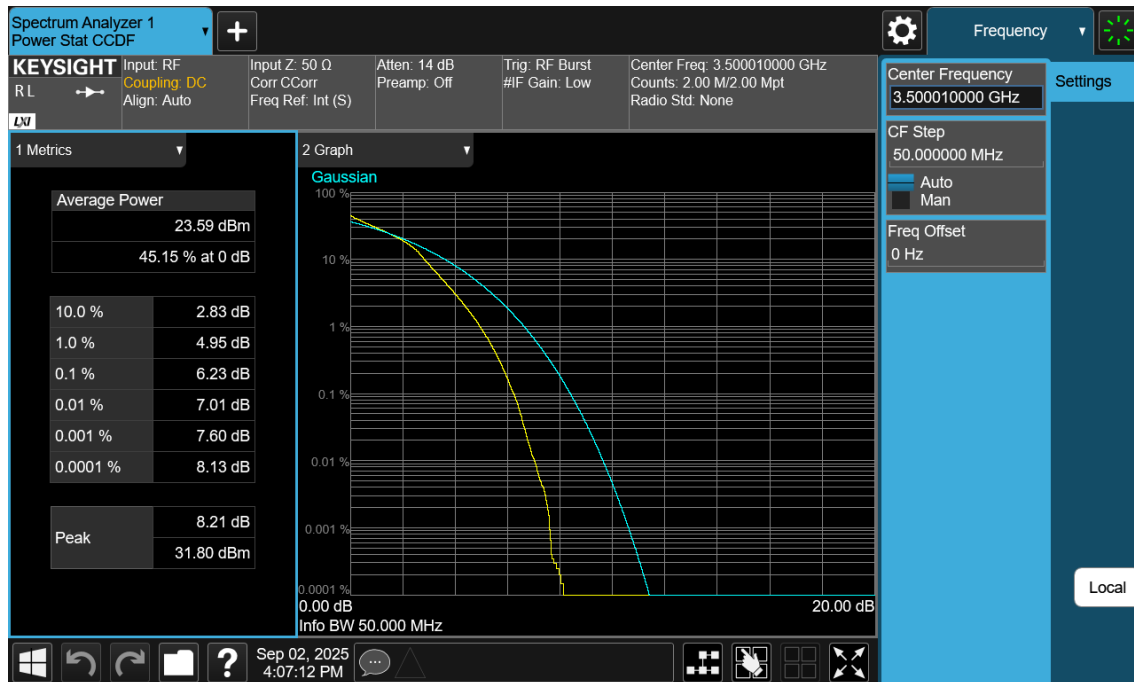
n77(3450~3550 MHz)_50 M_PAR_Mid_BPSK_FullRB



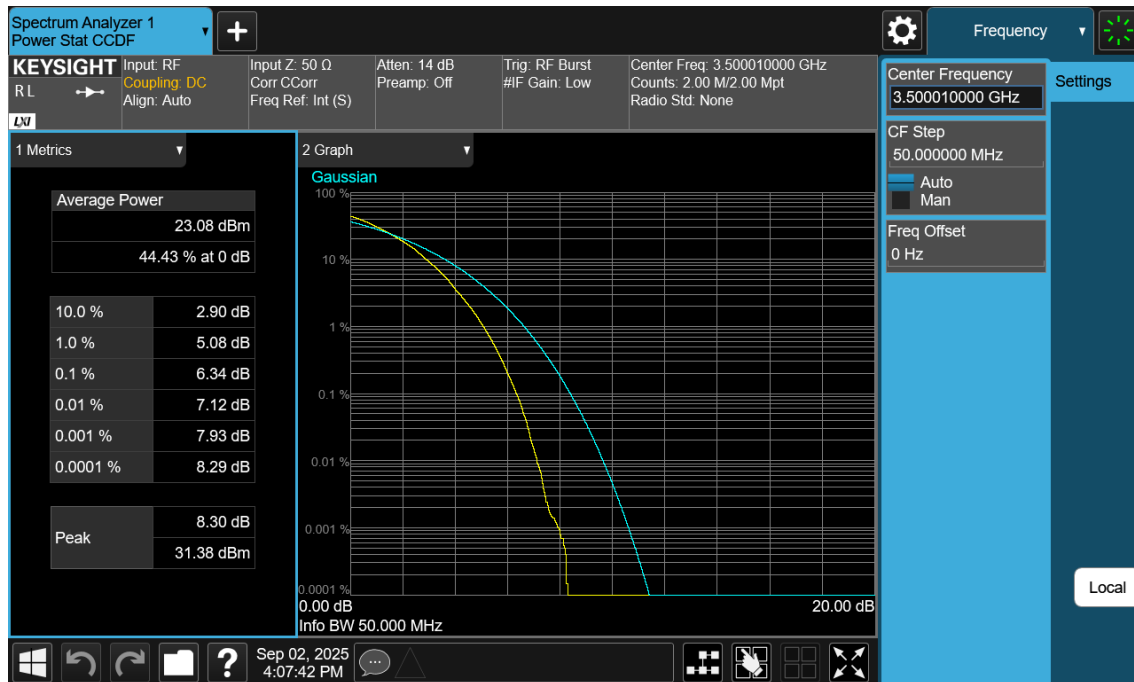
n77(3450~3550 MHz)_50 M_PAR_Mid_QPSK_FullRB



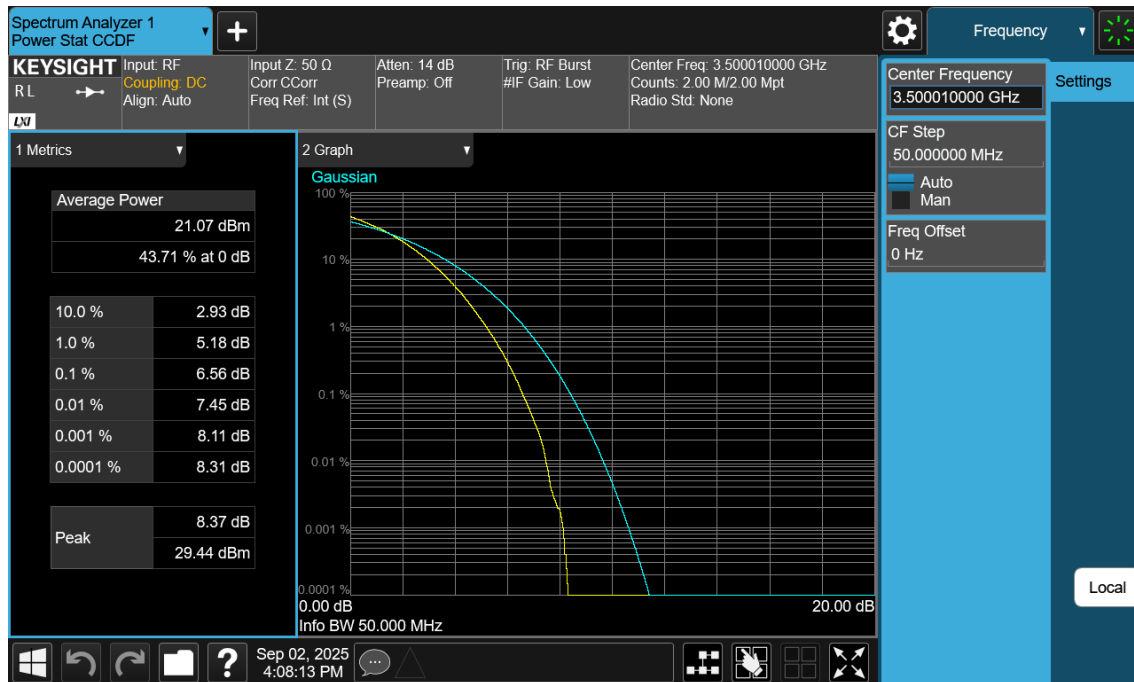
n77(3450~3550 MHz)_50 M_PAR_Mid_16QAM_FullRB



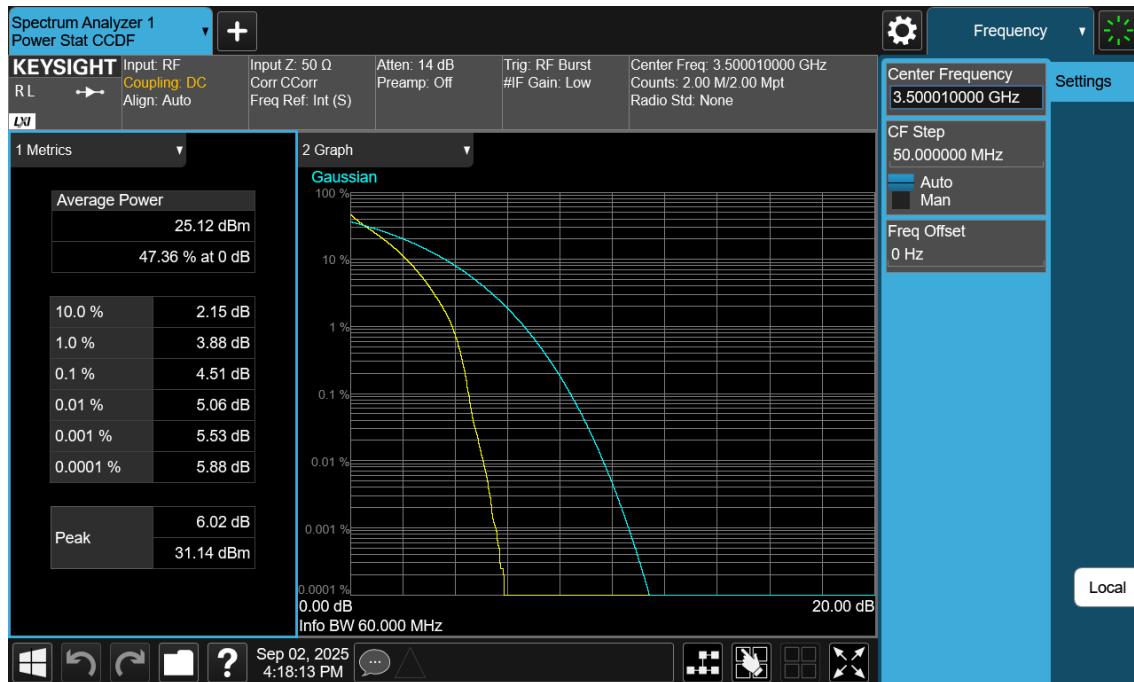
n77(3450~3550 MHz)_50 M_PAR_Mid_64QAM_FullRB



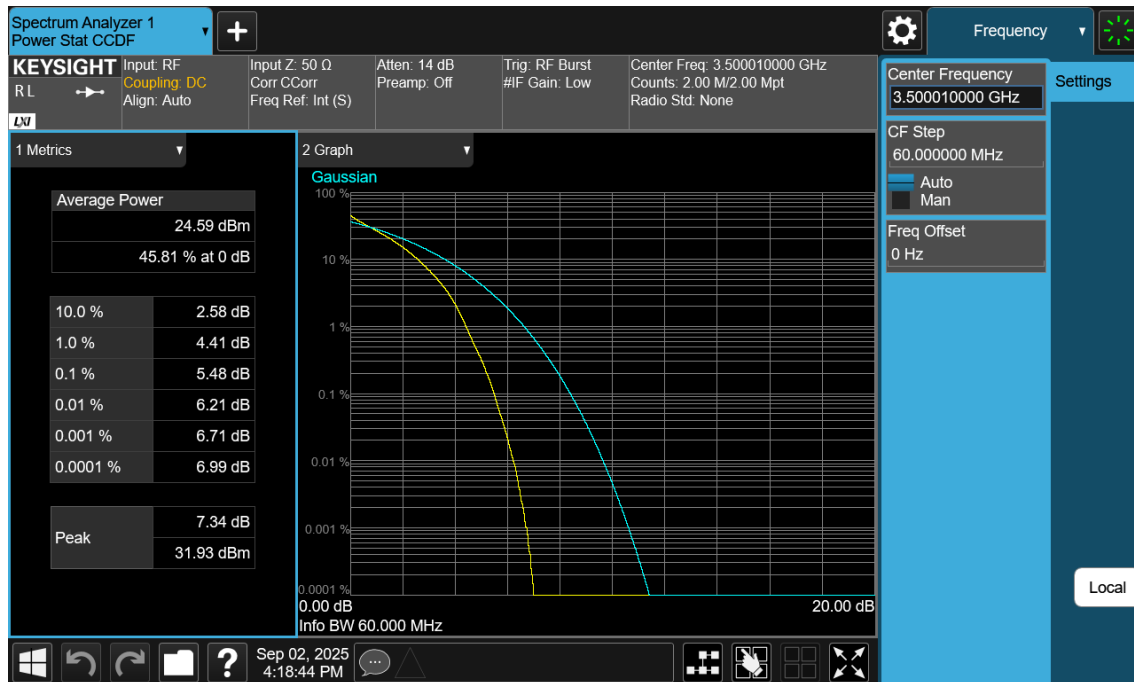
n77(3450~3550 MHz)_50 M_PAR_Mid_256QAM_FullRB



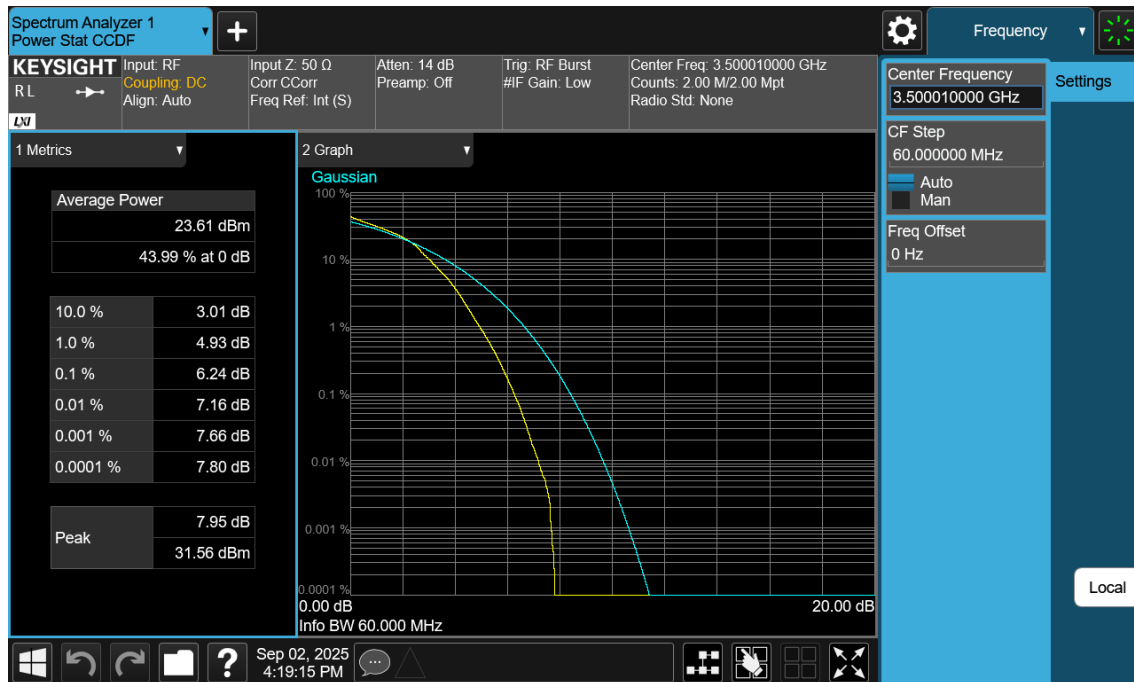
n77(3450~3550 MHz)_60 M_PAR_Mid_BPSK_FullRB



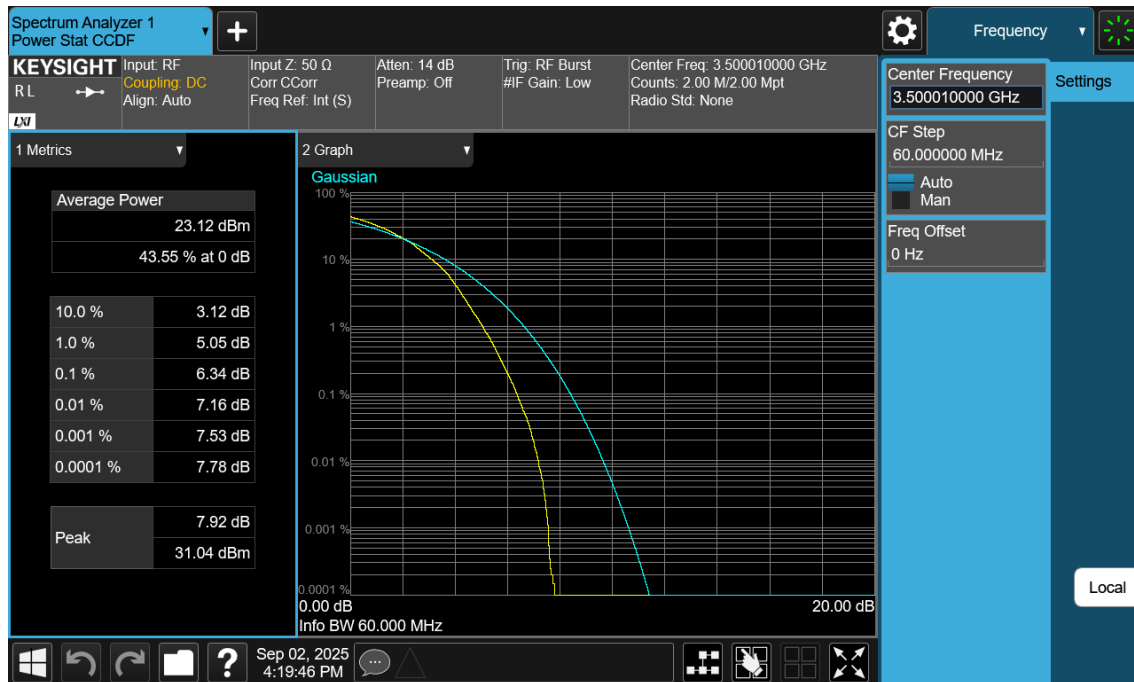
n77(3450~3550 MHz)_60 M_PAR_Mid_QPSK_FullRB



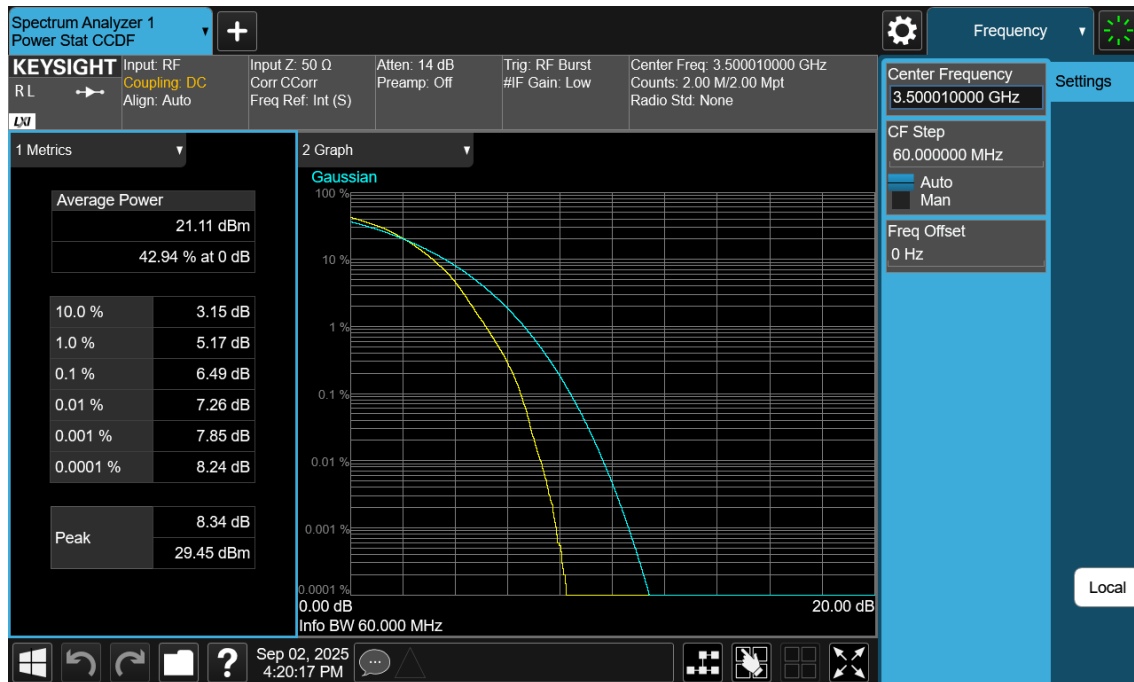
n77(3450~3550 MHz)_60 M_PAR_Mid_16QAM_FullRB



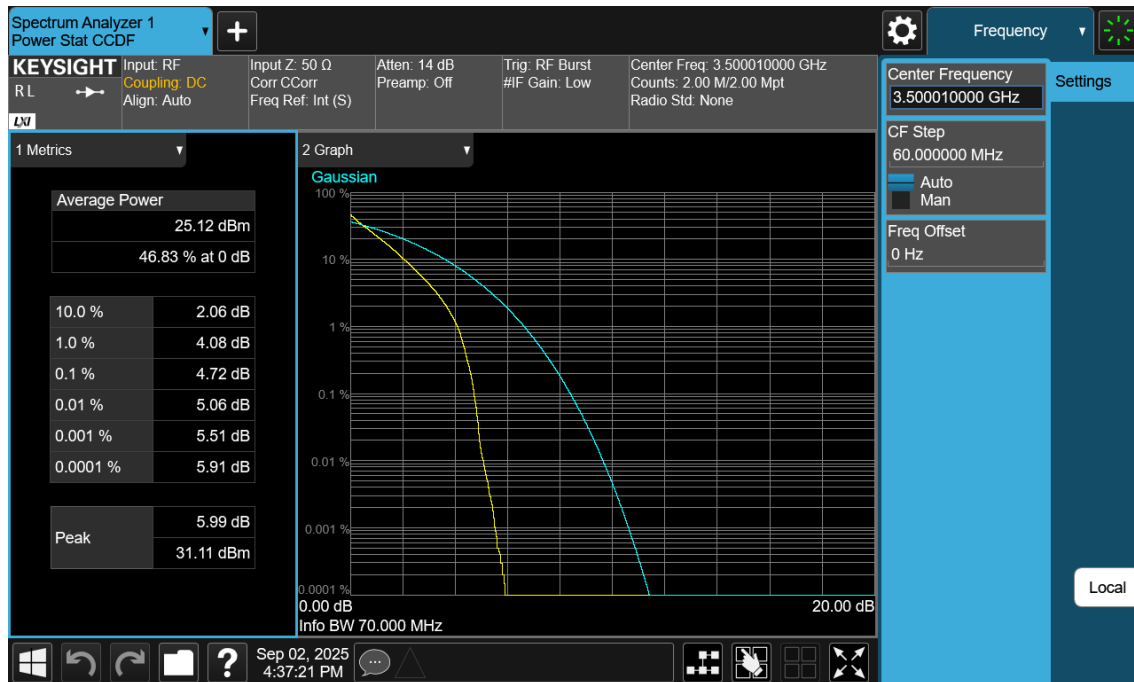
n77(3450~3550 MHz)_60 M_PAR_Mid_64QAM_FullRB



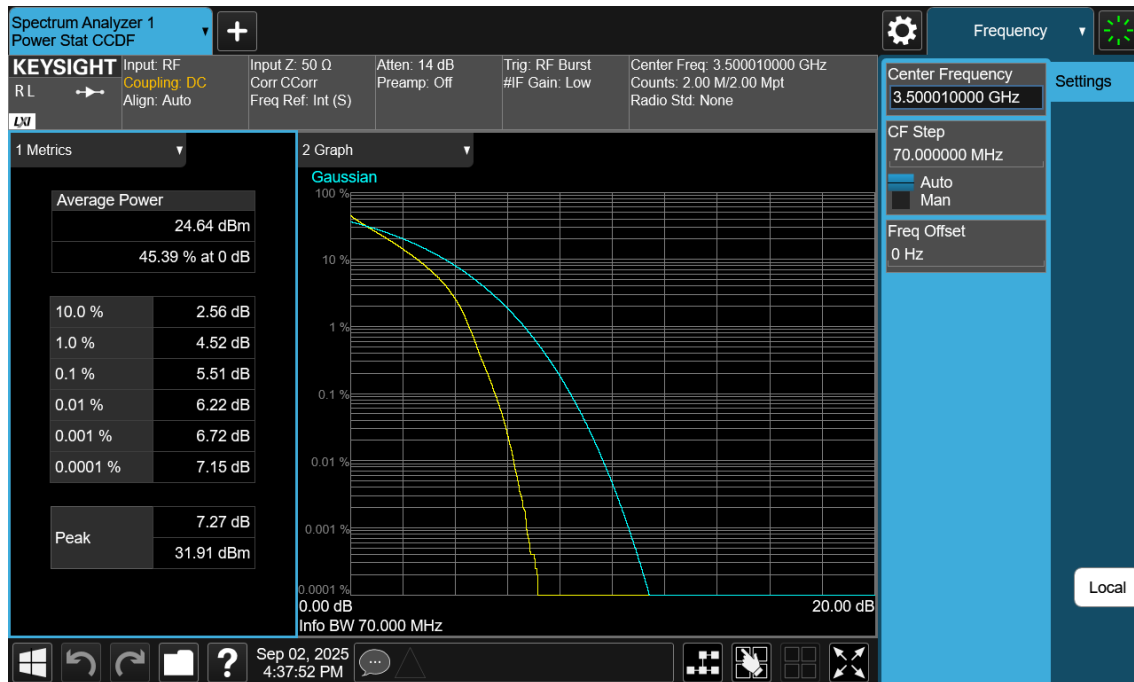
n77(3450~3550 MHz)_60 M_PAR_Mid_256QAM_FullRB



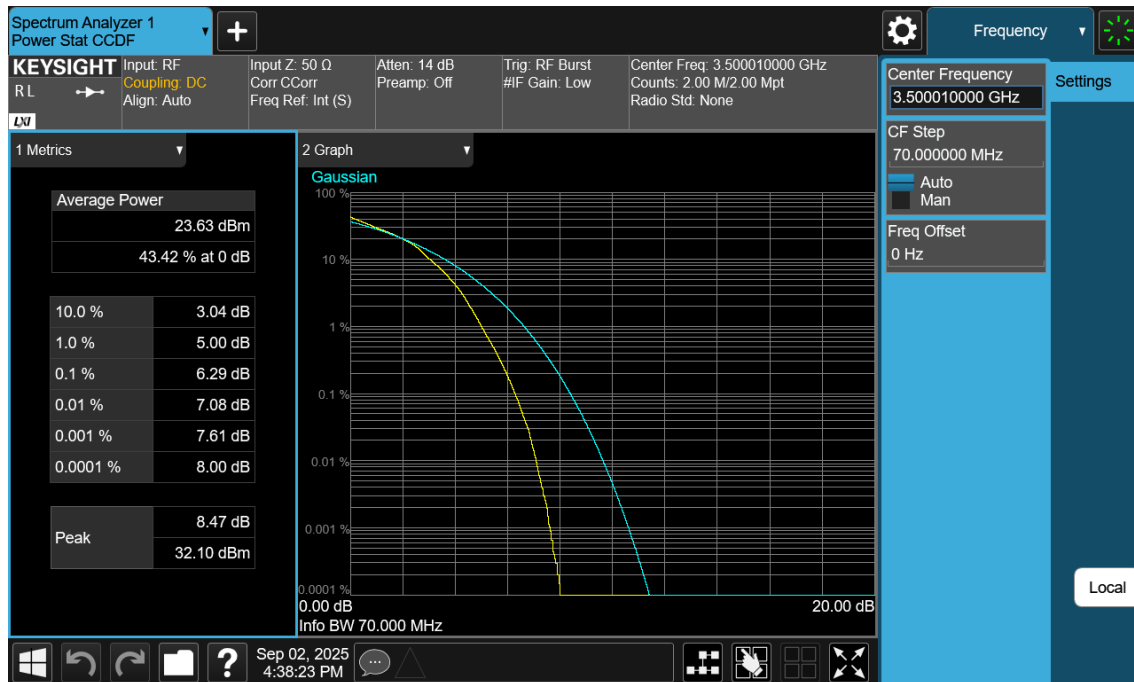
n77(3450~3550 MHz)_70 M_PAR_Mid_BPSK_FullRB



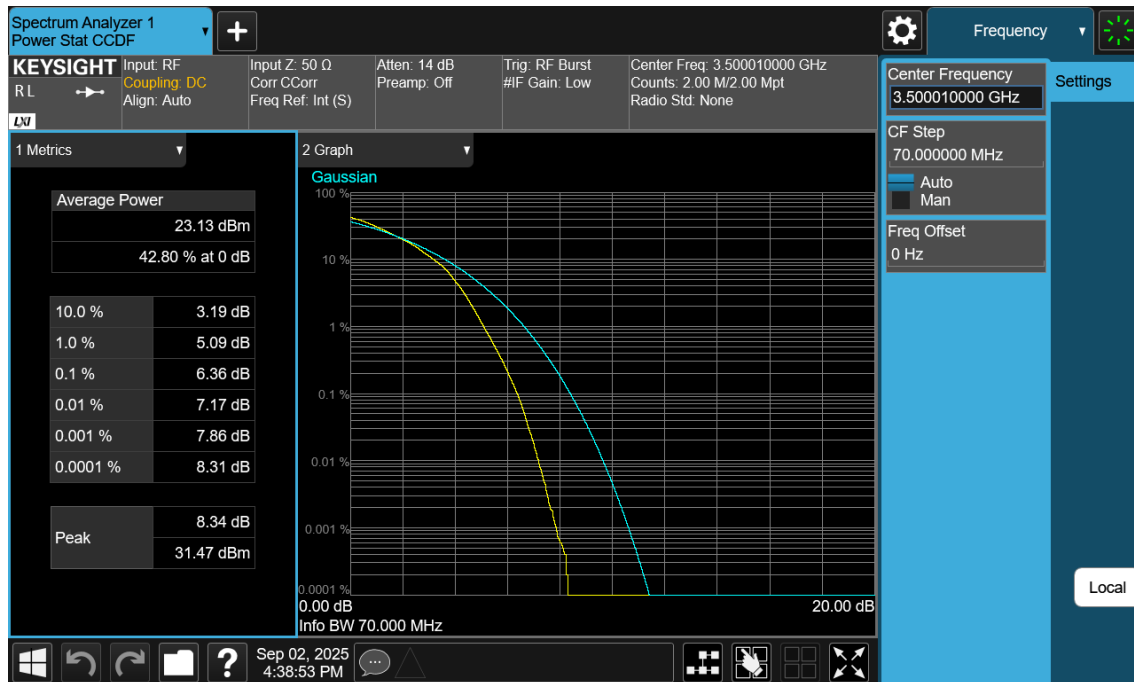
n77(3450~3550 MHz)_70 M_PAR_Mid_QPSK_FullRB



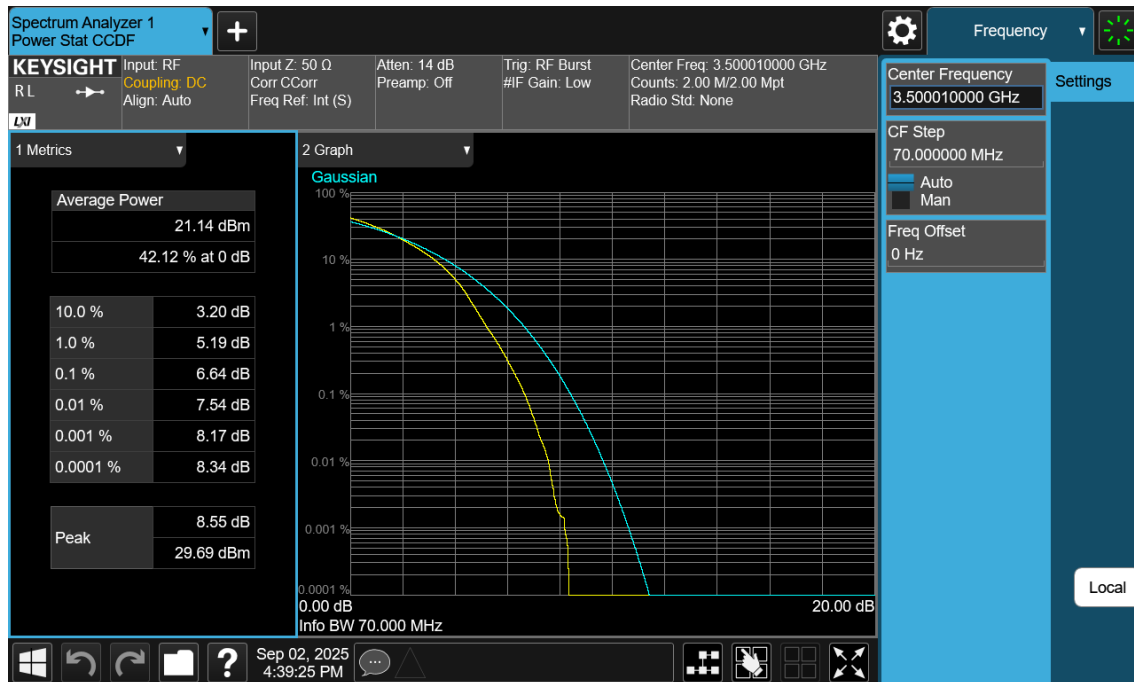
n77(3450~3550 MHz)_70 M_PAR_Mid_16QAM_FullRB



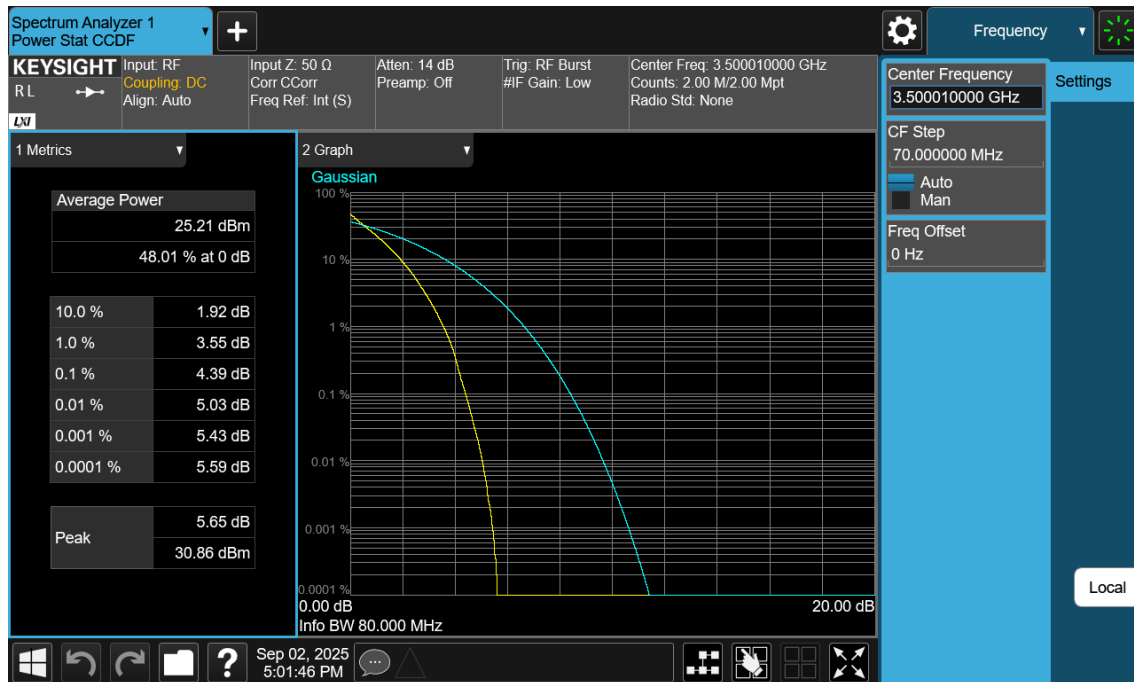
n77(3450~3550 MHz)_70 M_PAR_Mid_64QAM_FullRB



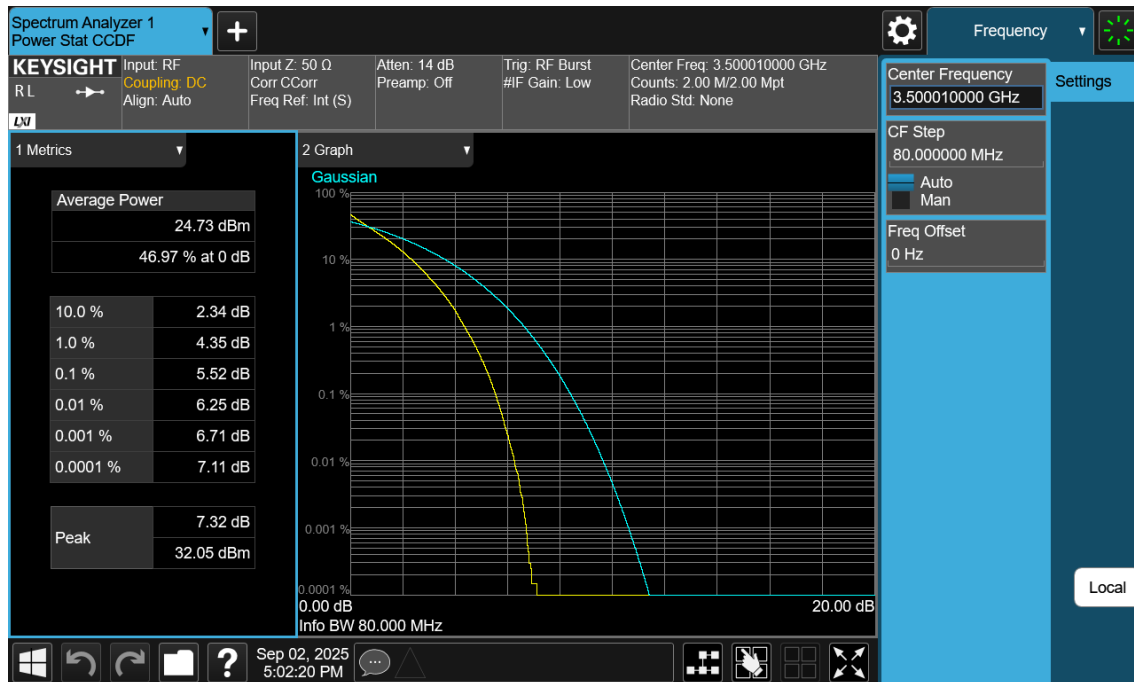
n77(3450~3550 MHz)_70 M_PAR_Mid_256QAM_FullRB



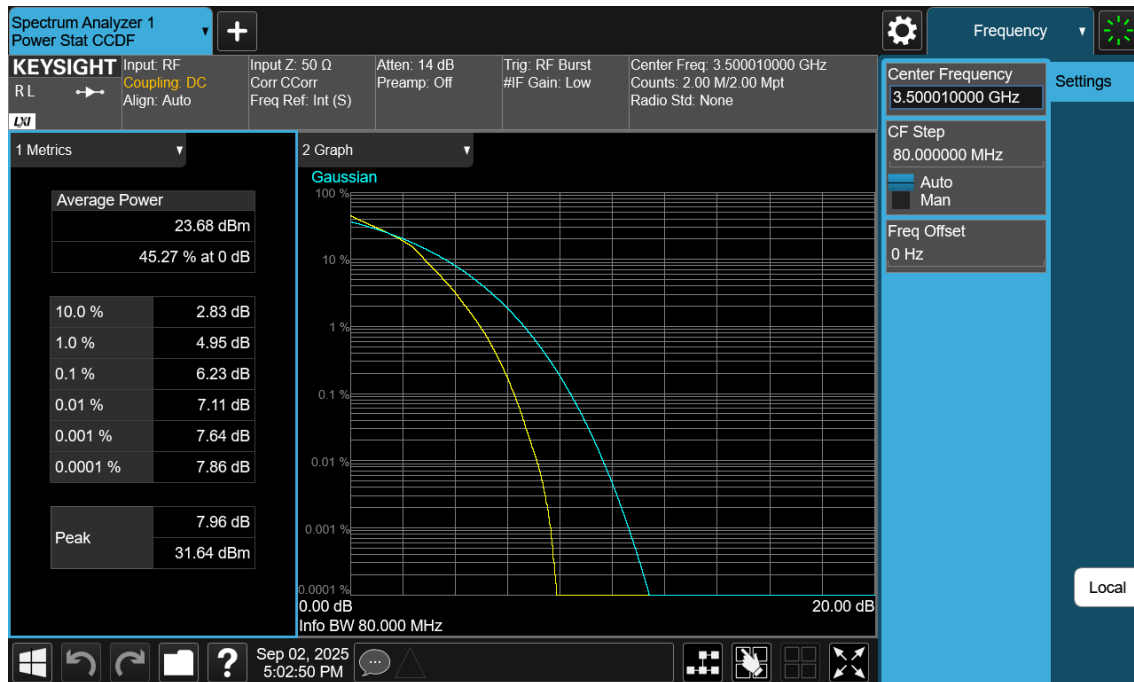
n77(3450~3550 MHz)_80 M_PAR_Mid_BPSK_FullRB



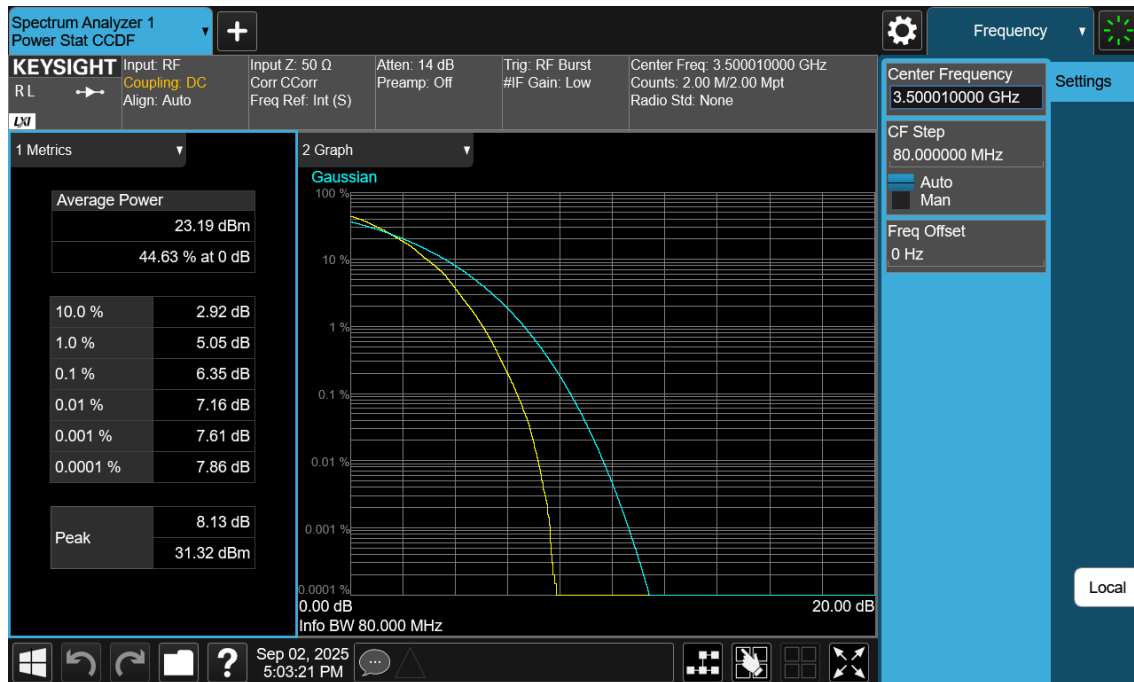
n77(3450~3550 MHz)_80 M_PAR_Mid_QPSK_FullRB



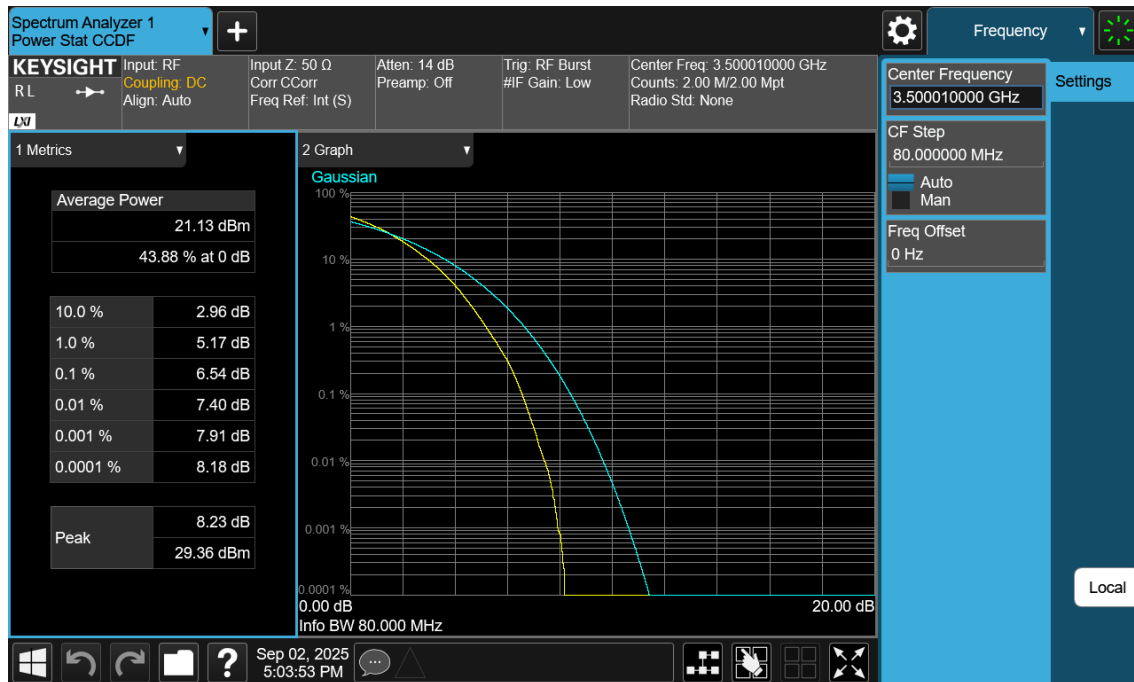
n77(3450~3550 MHz)_80 M_PAR_Mid_16QAM_FullRB



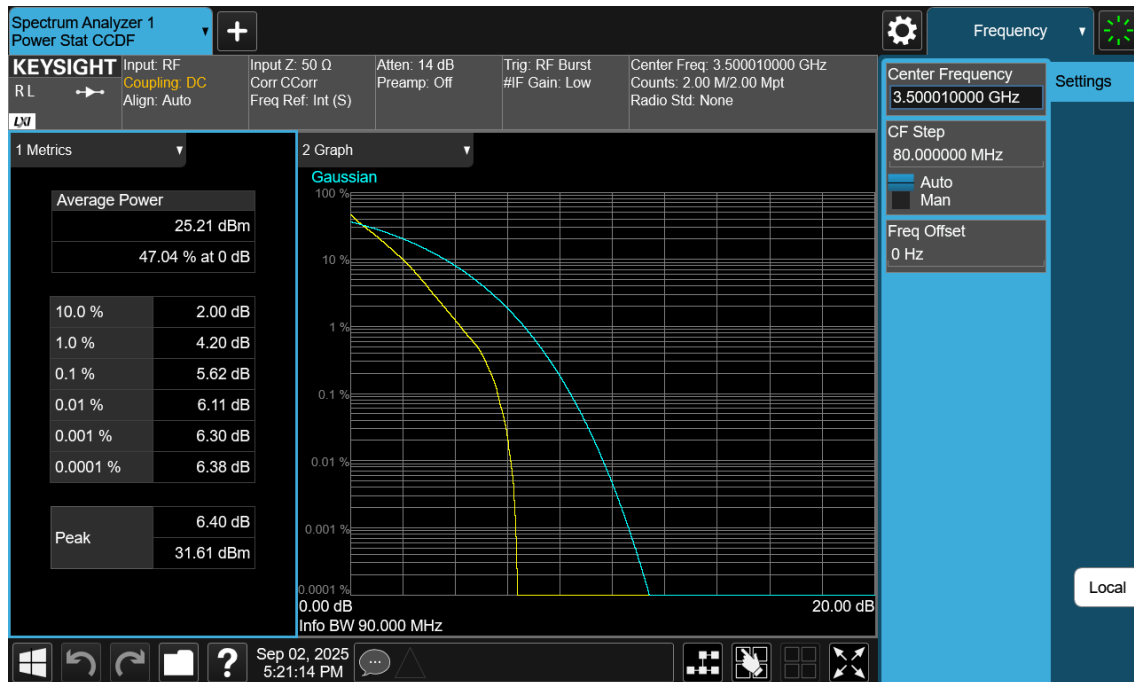
n77(3450~3550 MHz)_80 M_PAR_Mid_64QAM_FullRB



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

