

TEST REPORT

FCC Sub6 n41 Test for SM-X406B
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2506-FC084

DATE OF ISSUE
June 18, 2025

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Applicant

SAMSUNG Electronics Co., Ltd.

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

Product Name

Tablet

Model Name

SM-X406B

Date of Test

April 24, 2025 ~ June 13, 2025

FCC ID

A3LSMX406B

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing

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

FCC Classification:

PCS Licensed Transmitter (PCB)

Test Standard Used

FCC Rule Part: § 27

Test Results

PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	June 18, 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 Bs marked **.

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

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

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

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMX406B
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part(s):	§ 27
EUT Type:	Tablet
Model(s):	SM-X406B
SCS(kHz):	30
Bandwidth(MHz):	Sub6 n41 : 10, 15, 20, 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:	2501.010 – 2685.000 : 10 MHz(Sub6 n41) 2503.500 – 2682.480 : 15 MHz(Sub6 n41) 2506.020 – 2679.990 : 20 MHz(Sub6 n41) 2511.000 – 2674.980 : 30 MHz(Sub6 n41) 2516.010 – 2670.000 : 40 MHz(Sub6 n41) 2521.020 – 2664.990 : 50 MHz(Sub6 n41) 2526.000 – 2659.980 : 60 MHz(Sub6 n41) 2531.010 – 2655.000 : 70 MHz(Sub6 n41) 2536.020 – 2649.990 : 80 MHz(Sub6 n41) 2541.000 – 2644.980 : 90 MHz(Sub6 n41) 2546.010 – 2640.000 : 100 MHz(Sub6 n41)
Date(s) of Tests:	April 24, 2025 ~ June 13, 2025
Serial number:	Radiated : R32Y4000YTK Conducted : R32Y40009RL
Antenna Information	Please refer to the Antenna Specification document.

1.1. MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n41 (10)	2501.010 – 2685.000	8M71G7D	PI/2 BPSK	0.242	23.84
		8M69G7D	QPSK	0.242	23.83
		8M70W7D	16QAM	0.195	22.91
		8M74W7D	64QAM	0.138	21.40
		8M69W7D	256QAM	0.086	19.36
Sub6 n41 (15)	2503.500 – 2682.480	13M0G7D	PI/2 BPSK	0.256	24.08
		13M0G7D	QPSK	0.254	24.05
		13M0W7D	16QAM	0.202	23.05
		13M0W7D	64QAM	0.140	21.46
		13M0W7D	256QAM	0.087	19.39
Sub6 n41 (20)	2506.020 – 2679.990	18M0G7D	PI/2 BPSK	0.267	24.27
		18M0G7D	QPSK	0.263	24.20
		18M0W7D	16QAM	0.206	23.14
		17M9W7D	64QAM	0.143	21.55
		18M0W7D	256QAM	0.095	19.76
Sub6 n41 (30)	2511.000 – 2674.980	27M0G7D	PI/2 BPSK	0.261	24.17
		27M0G7D	QPSK	0.255	24.06
		27M0W7D	16QAM	0.201	23.04
		27M0W7D	64QAM	0.142	21.51
		26M9W7D	256QAM	0.093	19.70
Sub6 n41 (40)	2516.010 – 2670.000	35M9G7D	PI/2 BPSK	0.266	24.25
		36M0G7D	QPSK	0.264	24.22
		35M9W7D	16QAM	0.213	23.29
		36M0W7D	64QAM	0.156	21.93
		35M8W7D	256QAM	0.094	19.71
Sub6 n41 (50)	2521.020 – 2664.990	46M1G7D	PI/2 BPSK	0.263	24.20
		46M0G7D	QPSK	0.256	24.08
		45M9W7D	16QAM	0.205	23.12
		46M1W7D	64QAM	0.146	21.64
		45M8W7D	256QAM	0.087	19.38
Sub6 n41 (60)	2526.000 – 2659.980	58M3G7D	PI/2 BPSK	0.245	23.90
		58M2G7D	QPSK	0.245	23.89
		58M4W7D	16QAM	0.190	22.79
		58M1W7D	64QAM	0.139	21.42
		58M3W7D	256QAM	0.088	19.45

Sub6 n41 (70)	2531.010 – 2655.000	64M9G7D	PI/2 BPSK	0.241	23.82
		64M9G7D	QPSK	0.238	23.77
		64M5W7D	16QAM	0.195	22.89
		64M7W7D	64QAM	0.135	21.30
		64M9W7D	256QAM	0.084	19.26
Sub6 n41 (80)	2536.020 – 2649.990	77M7G7D	PI/2 BPSK	0.236	23.73
		77M5G7D	QPSK	0.233	23.68
		77M3W7D	16QAM	0.187	22.71
		77M5W7D	64QAM	0.135	21.29
		77M6W7D	256QAM	0.083	19.20
Sub6 n41 (90)	2541.000 – 2644.980	87M1G7D	PI/2 BPSK	0.258	24.12
		87M3G7D	QPSK	0.256	24.08
		87M5W7D	16QAM	0.206	23.13
		87M4W7D	64QAM	0.144	21.58
		87M2W7D	256QAM	0.093	19.68
Sub6 n41 (100)	2546.010 – 2640.000	96M8G7D	PI/2 BPSK	0.251	24.00
		96M9G7D	QPSK	0.245	23.90
		96M7W7D	16QAM	0.194	22.88
		96M7W7D	64QAM	0.140	21.45
		96M8W7D	256QAM	0.090	19.52

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

2.2. MEASURING INSTRUMENT CALIBRATION

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

2.3. TEST FACILITY

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

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

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

3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

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

Test Settings

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

Test Note

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

The power is calculated by the following formula;

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

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

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

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

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

3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method.

Test Settings

1. RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz
2. VBW $\geq 3 \times$ 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;

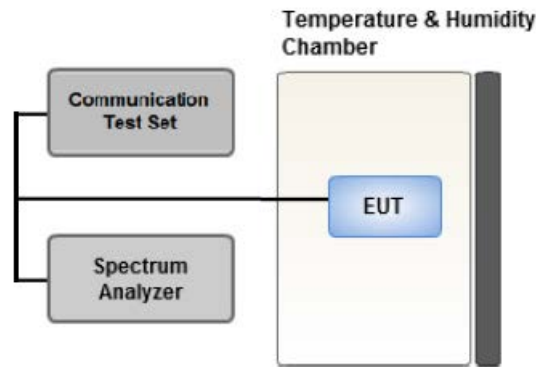
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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)

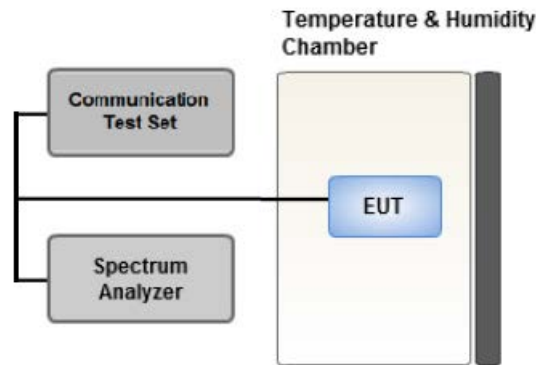
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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.

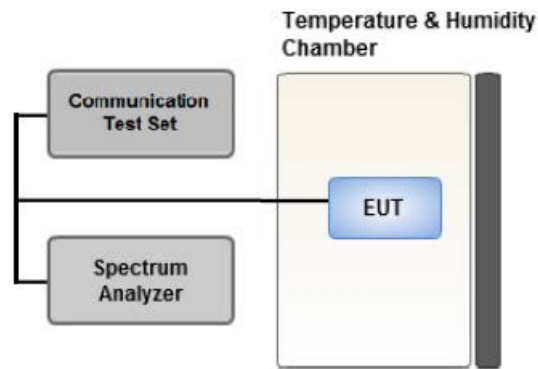
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

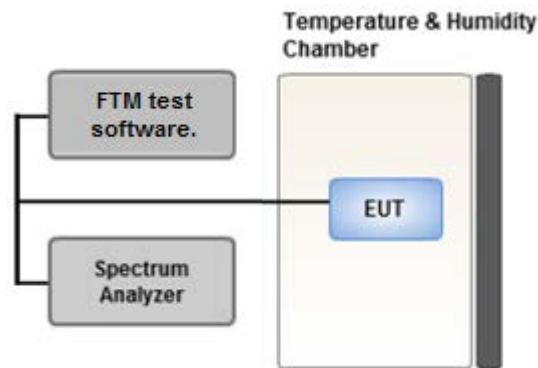
Test Overview

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

Test Settings

1. RBW = 1 MHz
2. VBW $\geq$ 3 MHz
3. Detector = Peak
4. Trace Mode = Max Hold
5. Sweep time = auto
6. Number of points in sweep $\geq$ 2 x Span / RBW

3.7 CHANNEL 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 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

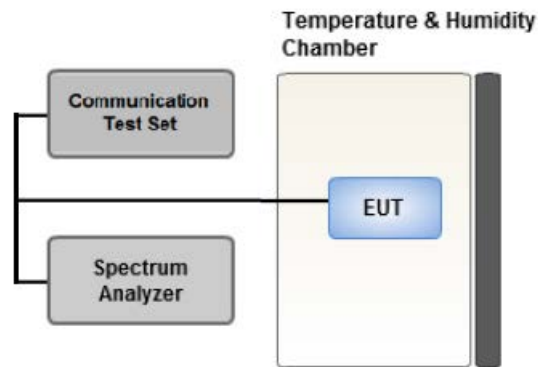
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Within 1 MHz of the channel edge the RBW should be 2 % of EBW, then 1 MHz after that.
4. VBW > 3 x RBW
5. 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

1. The attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge,
2. $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge.
3. $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge.
4. The attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz.
5. $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
6. X is the greater of 6MHz or the actual emission bandwidth
7. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer

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.
- 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.
- 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.

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

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
(Worst case: PI/2 BPSK)
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA, SRS
Worst case: SA
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth, Peak-To-Average Ratio	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100	Mid	Full RB	0
Channel 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
		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, 30, 40, 50, 60, 70, 80, 90, 100	Low, Mid, High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	10, 15, 20, 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	08/22/2025	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	08/05/2025	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
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/10/2025	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/26/2025	Annual
Automation Software	FCC NR Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC NR Radiated	HCT CO., LTD	-	-	-

Note:

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

5. MEASUREMENT UNCERTAINTY

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

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

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

Parameter	Expanded Uncertainty ($\pm$ dB)
Block Edge	0.70 (Confidence level about 95 %, $k=2$)
Conducted Spurious Emissions	1.18 (Confidence level about 95 %, $k=2$)
Peak- to- Average Ratio	0.68 (Confidence level about 95 %, $k=2$)
Radiated Power	4.74 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.36 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.68 (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(m)(4)	■ $< 40 + 10\log_{10} (P[\text{Watts}])$ at Channel edges ■ $< 43 + 10\log_{10} (P[\text{Watts}])$ between 5 and X MHz from Channel edges ■ $< 55 + 10\log_{10} (P[\text{Watts}])$ beyond X MHz beyond from Channel edges ■ $< 43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz	PASS
Conducted Output Power	§ 2.1046	N/A	<u>Note1</u>
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(h)(2)	< 2 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 27.53(m)(4)	$< 55 + 10\log_{10} (P[\text{Watts}])$	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

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2501.010	Sub6 n41 / 10 MHz [30 kHz]	PI/2 BPSK	-21.07	15.73	10.61	2.50	H	< 2.00	0.242	23.84	1	22
		QPSK	-21.08	15.72	10.61	2.50	H		0.242	23.83		
		16-QAM	-22.00	14.80	10.61	2.50	H		0.195	22.91		
		64-QAM	-23.51	13.29	10.61	2.50	H		0.138	21.40		
		256-QAM	-25.55	11.25	10.61	2.50	H		0.086	19.36		
2592.990		PI/2 BPSK	-22.14	14.57	11.00	2.55	H		0.200	23.02	1	1
		QPSK	-22.19	14.52	11.00	2.55	H		0.198	22.97		
		16-QAM	-23.18	13.53	11.00	2.55	H		0.158	21.98		
		64-QAM	-24.67	12.04	11.00	2.55	H		0.112	20.49		
		256-QAM	-26.61	10.10	11.00	2.55	H		0.072	18.55		
2685.000		PI/2 BPSK	-23.91	13.65	10.82	2.61	H	0.153	21.86	1	12	
		QPSK	-23.92	13.64	10.82	2.61	H	0.153	21.85			
		16-QAM	-25.13	12.43	10.82	2.61	H	0.116	20.64			
		64-QAM	-26.37	11.19	10.82	2.61	H	0.087	19.40			
		256-QAM	-28.49	9.07	10.82	2.61	H	0.053	17.28			

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2503.500	Sub6 n41 / 15 MHz [30 kHz]	PI/2 BPSK	-20.85	16.01	10.58	2.51	H		0.256	24.08	1	36
		QPSK	-20.88	15.98	10.58	2.51	H		0.254	24.05		
		16-QAM	-21.88	14.98	10.58	2.51	H		0.202	23.05		
		64-QAM	-23.47	13.39	10.58	2.51	H		0.140	21.46		
		256-QAM	-25.54	11.32	10.58	2.51	H		0.087	19.39		
2592.990		PI/2 BPSK	-21.97	14.74	11.00	2.55	H	< 2.00	0.208	23.19	1	1
		QPSK	-22.01	14.70	11.00	2.55	H		0.207	23.15		
		16-QAM	-22.98	13.73	11.00	2.55	H		0.165	22.18		
		64-QAM	-24.52	12.19	11.00	2.55	H		0.116	20.64		
		256-QAM	-26.65	10.06	11.00	2.55	H		0.071	18.51		
2682.480		PI/2 BPSK	-23.89	13.78	10.84	2.61	H		0.159	22.01	1	1
		QPSK	-23.90	13.77	10.84	2.61	H		0.158	22.00		
		16-QAM	-24.80	12.87	10.84	2.61	H		0.129	21.10		
		64-QAM	-26.39	11.28	10.84	2.61	H		0.089	19.51		
		256-QAM	-28.36	9.31	10.84	2.61	H		0.057	17.54		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2506.020	Sub6 n41 / 20 MHz [30 kHz]	PI/2 BPSK	-20.66	16.20	10.58	2.51	H		0.267	24.27	1	49
		QPSK	-20.73	16.13	10.58	2.51	H		0.263	24.20		
		16-QAM	-21.79	15.07	10.58	2.51	H		0.206	23.14		
		64-QAM	-23.38	13.48	10.58	2.51	H		0.143	21.55		
		256-QAM	-25.17	11.69	10.58	2.51	H		0.095	19.76		
2592.990		PI/2 BPSK	-22.12	14.59	11.00	2.55	H	< 2.00	0.201	23.04	1	1
		QPSK	-22.16	14.55	11.00	2.55	H		0.200	23.00		
		16-QAM	-23.07	13.64	11.00	2.55	H		0.162	22.09		
		64-QAM	-24.74	11.97	11.00	2.55	H		0.110	20.42		
		256-QAM	-26.86	9.85	11.00	2.55	H		0.068	18.30		
2679.990		PI/2 BPSK	-23.77	13.90	10.84	2.61	H		0.163	22.13	1	1
		QPSK	-23.80	13.87	10.84	2.61	H		0.162	22.10		
		16-QAM	-24.81	12.86	10.84	2.61	H		0.129	21.09		
		64-QAM	-26.40	11.27	10.84	2.61	H		0.089	19.50		
		256-QAM	-28.37	9.30	10.84	2.61	H		0.057	17.53		

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
2511.000		PI/2 BPSK	-20.79	16.13	10.55	2.51	H		0.261	24.17	1	39
		QPSK	-20.90	16.02	10.55	2.51	H		0.255	24.06		
		16-QAM	-21.92	15.00	10.55	2.51	H		0.201	23.04		
		64-QAM	-23.45	13.47	10.55	2.51	H		0.142	21.51		
		256-QAM	-25.26	11.66	10.55	2.51	H		0.093	19.70		
2592.990	Sub6 n41 / 30 MHz [30 kHz]	PI/2 BPSK	-21.73	14.98	11.00	2.55	H	< 2.00	0.220	23.43	1	1
		QPSK	-21.75	14.96	11.00	2.55	H		0.219	23.41		
		16-QAM	-22.72	13.99	11.00	2.55	H		0.175	22.44		
		64-QAM	-24.41	12.30	11.00	2.55	H		0.119	20.75		
		256-QAM	-26.49	10.22	11.00	2.55	H		0.074	18.67		
2674.980		PI/2 BPSK	-23.53	13.76	10.85	2.62	H		0.158	21.99	1	1
		QPSK	-23.57	13.72	10.85	2.62	H		0.157	21.95		
		16-QAM	-24.47	12.82	10.85	2.62	H		0.127	21.05		
		64-QAM	-26.16	11.13	10.85	2.62	H		0.086	19.36		
		256-QAM	-28.07	9.22	10.85	2.62	H		0.056	17.45		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2516.010	Sub6 n41 / 40 MHz [30 kHz]	PI/2 BPSK	-20.67	16.26	10.52	2.53	H		0.266	24.25	1	53
		QPSK	-20.70	16.23	10.52	2.53	H		0.264	24.22		
		16-QAM	-21.63	15.30	10.52	2.53	H		0.213	23.29		
		64-QAM	-22.99	13.94	10.52	2.53	H		0.156	21.93		
		256-QAM	-25.21	11.72	10.52	2.53	H		0.094	19.71		
2592.990		-20.43	-21.82	14.89	11.00	2.55	H	< 2.00	0.216	23.34	1	1
		-20.50	-21.86	14.85	11.00	2.55	H		0.214	23.30		
		-21.70	-22.75	13.96	11.00	2.55	H		0.174	22.41		
		-22.96	-24.36	12.35	11.00	2.55	H		0.120	20.80		
		-25.24	-26.29	10.42	11.00	2.55	H		0.077	18.87		
2670.000		PI/2 BPSK	-23.42	13.48	10.87	2.62	H		0.149	21.73	1	1
		QPSK	-23.44	13.46	10.87	2.62	H		0.148	21.71		
		16-QAM	-24.33	12.57	10.87	2.62	H		0.121	20.82		
		64-QAM	-25.94	10.96	10.87	2.62	H		0.083	19.21		
		256-QAM	-27.99	8.91	10.87	2.62	H		0.052	17.16		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2521.020	Sub6 n41 / 50 MHz [30 kHz]	PI/2 BPSK	-20.68	16.25	10.49	2.54	H		0.263	24.20	1	66
		QPSK	-20.80	16.13	10.49	2.54	H		0.256	24.08		
		16-QAM	-21.76	15.17	10.49	2.54	H		0.205	23.12		
		64-QAM	-23.24	13.69	10.49	2.54	H		0.146	21.64		
		256-QAM	-25.50	11.43	10.49	2.54	H		0.087	19.38		
2592.990		-20.43	-21.77	14.94	11.00	2.55	H	< 2.00	0.218	23.39	1	1
		-20.50	-21.78	14.93	11.00	2.55	H		0.218	23.38		
		-21.70	-22.84	13.87	11.00	2.55	H		0.171	22.32		
		-22.96	-24.23	12.48	11.00	2.55	H		0.124	20.93		
		-25.24	-26.30	10.41	11.00	2.55	H		0.077	18.86		
2664.990		PI/2 BPSK	-23.73	13.22	10.88	2.64	H		0.140	21.46	1	1
		QPSK	-23.74	13.21	10.88	2.64	H		0.140	21.45		
		16-QAM	-24.61	12.34	10.88	2.64	H		0.114	20.58		
		64-QAM	-26.14	10.81	10.88	2.64	H		0.080	19.05		
		256-QAM	-28.30	8.65	10.88	2.64	H		0.049	16.89		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2526.000	Sub6 41/ 60 MHz [30 kHz]	PI/2 BPSK	-20.78	15.85	10.52	2.54	H		0.242	23.83	1	82
		QPSK	-20.82	15.81	10.52	2.54	H		0.239	23.79		
		16-QAM	-21.89	14.74	10.52	2.54	H		0.187	22.72		
		64-QAM	-23.32	13.31	10.52	2.54	H		0.135	21.29		
		256-QAM	-25.51	11.12	10.52	2.54	H		0.081	19.10		
2592.990		PI/2 BPSK	-21.26	15.45	11.00	2.55	H	< 2.00	0.245	23.90	1	1
		QPSK	-21.27	15.44	11.00	2.55	H		0.245	23.89		
		16-QAM	-22.37	14.34	11.00	2.55	H		0.190	22.79		
		64-QAM	-23.74	12.97	11.00	2.55	H		0.139	21.42		
		256-QAM	-25.71	11.00	11.00	2.55	H		0.088	19.45		
2659.980		PI/2 BPSK	-23.39	13.62	10.90	2.67	H		0.153	21.85	1	82
		QPSK	-23.43	13.58	10.90	2.67	H		0.152	21.81		
		16-QAM	-24.31	12.70	10.90	2.67	H		0.124	20.93		
		64-QAM	-26.06	10.95	10.90	2.67	H		0.083	19.18		
		256-QAM	-27.92	9.09	10.90	2.67	H		0.054	17.32		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2531.010	Sub6 41/ 70 MHz [30 kHz]	PI/2 BPSK	-21.02	15.31	10.56	2.54	H		0.215	23.33	1	94
		QPSK	-21.07	15.26	10.56	2.54	H		0.213	23.28		
		16-QAM	-21.83	14.50	10.56	2.54	H		0.179	22.52		
		64-QAM	-23.38	12.95	10.56	2.54	H		0.125	20.97		
		256-QAM	-25.56	10.77	10.56	2.54	H		0.076	18.79		
2592.990		PI/2 BPSK	-21.34	15.37	11.00	2.55	H	< 2.00	0.241	23.82	1	1
		QPSK	-21.39	15.32	11.00	2.55	H		0.238	23.77		
		16-QAM	-22.27	14.44	11.00	2.55	H		0.195	22.89		
		64-QAM	-23.86	12.85	11.00	2.55	H		0.135	21.30		
		256-QAM	-25.90	10.81	11.00	2.55	H		0.084	19.26		
2655.000		PI/2 BPSK	-22.80	14.11	10.91	2.68	H		0.171	22.34	1	1
		QPSK	-22.81	14.10	10.91	2.68	H		0.171	22.33		
		16-QAM	-23.72	13.19	10.91	2.68	H		0.139	21.42		
		64-QAM	-25.30	11.61	10.91	2.68	H		0.096	19.84		
		256-QAM	-27.29	9.62	10.91	2.68	H		0.061	17.85		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2536.020	Sub6 41/ 80 MHz [30 kHz]	PI/2 BPSK	-20.95	15.51	10.59	2.54	H		0.227	23.56	1	108
		QPSK	-21.04	15.42	10.59	2.54	H		0.222	23.47		
		16-QAM	-22.01	14.45	10.59	2.54	H		0.178	22.50		
		64-QAM	-23.58	12.88	10.59	2.54	H		0.124	20.93		
		256-QAM	-25.51	10.95	10.59	2.54	H		0.079	19.00		
2592.990		PI/2 BPSK	-21.43	15.28	11.00	2.55	H	< 2.00	0.236	23.73	1	1
		QPSK	-21.48	15.23	11.00	2.55	H		0.233	23.68		
		16-QAM	-22.45	14.26	11.00	2.55	H		0.187	22.71		
		64-QAM	-23.87	12.84	11.00	2.55	H		0.135	21.29		
		256-QAM	-25.96	10.75	11.00	2.55	H		0.083	19.20		
2649.990		PI/2 BPSK	-22.45	14.34	10.93	2.69	H		0.181	22.58	1	1
		QPSK	-22.49	14.30	10.93	2.69	H		0.189	22.54		
		16-QAM	-23.56	13.23	10.93	2.69	H		0.140	21.47		
		64-QAM	-25.00	11.79	10.93	2.69	H		0.101	20.03		
		256-QAM	-27.00	9.79	10.93	2.69	H		0.064	18.03		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2541.000	Sub6 41/ 90 MHz [30 kHz]	PI/2 BPSK	-20.85	15.73	10.62	2.53	H		0.241	23.82	1	122
		QPSK	-20.90	15.68	10.62	2.53	H		0.238	23.77		
		16-QAM	-21.96	14.62	10.62	2.53	H		0.187	22.71		
		64-QAM	-23.44	13.14	10.62	2.53	H		0.133	21.23		
		256-QAM	-25.55	11.03	10.62	2.53	H		0.082	19.12		
2592.990		PI/2 BPSK	-21.04	15.67	11.00	2.55	H	< 2.00	0.258	24.12	1	1
		QPSK	-21.08	15.63	11.00	2.55	H		0.256	24.08		
		16-QAM	-22.03	14.68	11.00	2.55	H		0.206	23.13		
		64-QAM	-23.58	13.13	11.00	2.55	H		0.144	21.58		
		256-QAM	-25.48	11.23	11.00	2.55	H		0.093	19.68		
2644.980		PI/2 BPSK	-22.11	15.00	10.95	2.68	H		0.212	23.27	1	1
		QPSK	-22.14	14.97	10.95	2.68	H		0.211	23.24		
		16-QAM	-23.08	14.03	10.95	2.68	H		0.170	22.30		
		64-QAM	-24.55	12.56	10.95	2.68	H		0.121	20.83		
		256-QAM	-26.65	10.46	10.95	2.68	H		0.075	18.73		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2546.010	Sub6 41/ 100 MHz [30 kHz]	PI/2 BPSK	-21.21	15.34	10.66	2.53	H		0.222	23.47	1	136
		QPSK	-21.25	15.30	10.66	2.53	H		0.220	23.43		
		16-QAM	-22.08	14.47	10.66	2.53	H		0.182	22.60		
		64-QAM	-23.75	12.80	10.66	2.53	H		0.124	20.93		
		256-QAM	-25.76	10.79	10.66	2.53	H		0.078	18.92		
2592.990		PI/2 BPSK	-21.23	15.48	11.00	2.55	H	< 2.00	0.247	23.93	1	1
		QPSK	-21.28	15.43	11.00	2.55	H		0.244	23.88		
		16-QAM	-22.35	14.36	11.00	2.55	H		0.191	22.81		
		64-QAM	-23.75	12.96	11.00	2.55	H		0.138	21.41		
		256-QAM	-25.64	11.07	11.00	2.55	H		0.090	19.52		
2640.000		PI/2 BPSK	-21.72	15.72	10.96	2.68	H		0.251	24.00	1	1
		QPSK	-21.82	15.62	10.96	2.68	H		0.245	23.90		
		16-QAM	-22.84	14.60	10.96	2.68	H		0.194	22.88		
		64-QAM	-24.27	13.17	10.96	2.68	H		0.140	21.45		
		256-QAM	-26.24	11.20	10.96	2.68	H		0.089	19.48		

8.2 RADIATED SPURIOUS EMISSIONS

- ▣ NR Band: n41
- ▣ Bandwidth: 10 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ 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
500202 (2501.010)	5 002.02	-58.13	11.22	-59.84	3.71	H	-52.33	-25.00	1	22
	7 503.03	-57.46	11.54	-50.03	4.60	H	-43.09	-25.00		
	10 004.04	-60.17	11.47	-50.77	5.47	V	-44.77	-25.00		
518598 (2592.990)	5 185.98	-58.87	11.61	-60.04	3.80	V	-52.23	-25.00	1	1
	7 778.97	-54.73	11.26	-47.66	4.70	V	-41.10	-25.00		
	10 371.96	-62.01	11.68	-50.92	5.55	H	-44.79	-25.00		
537000 (2685.000)	5 370.00	-62.99	11.96	-64.62	3.92	V	-56.58	-25.00	1	12
	8 055.00	-52.97	11.24	-45.69	4.81	V	-39.26	-25.00		
	10 740.00	-55.22	11.55	-43.20	5.64	V	-37.29	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 15 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ 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
500700 (2503.500)	5 007.00	-55.71	11.20	-57.14	3.71	V	-49.65	-25.00	1	36
	7 510.50	-58.24	11.55	-50.70	4.60	V	-43.75	-25.00		
	10 014.00	-60.78	11.46	-51.39	5.47	V	-45.40	-25.00		
518598 (2592.990)	5 185.98	-57.78	11.61	-58.95	3.80	V	-51.14	-25.00	1	1
	7 778.97	-54.87	11.26	-47.80	4.70	V	-41.24	-25.00		
	10 371.96	-63.71	11.68	-52.62	5.55	V	-46.49	-25.00		
536496 (2682.480)	5 364.96	-62.58	11.95	-64.10	3.91	V	-56.06	-25.00	1	1
	8 047.44	-51.79	11.23	-44.57	4.81	V	-38.15	-25.00		
	10 729.92	-56.04	11.56	-43.97	5.65	V	-38.06	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 20 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ 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
501204 (2506.020)	5 012.04	-55.46	11.18	-56.60	3.72	V	-49.14	-25.00	1	49
	7 518.06	-57.68	11.56	-50.04	4.61	V	-43.09	-25.00		
	10 024.08	-61.20	11.46	-51.85	5.47	V	-45.86	-25.00		
518598 (2592.990)	5 185.98	-56.60	11.61	-57.77	3.80	V	-49.96	-25.00	1	1
	7 778.97	-54.97	11.26	-47.90	4.70	V	-41.34	-25.00		
	10 371.96	-63.59	11.68	-52.50	5.55	V	-46.37	-25.00		
535998 (2679.990)	5 359.98	-54.60	11.95	-56.03	3.90	V	-47.98	-25.00	1	1
	8 039.97	-53.93	11.22	-46.62	4.80	V	-40.20	-25.00		
	10 719.96	-57.14	11.56	-45.49	5.64	V	-39.57	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 30 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ 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
502200 (2511.000)	5 022.00	-56.58	11.17	-57.28	3.69	V	-49.80	-25.00	1	39
	7 533.00	-59.25	11.57	-51.65	4.61	V	-44.69	-25.00		
	10 044.00	-61.57	11.44	-52.25	5.48	V	-46.29	-25.00		
518598 (2592.990)	5 185.98	-56.94	11.61	-58.11	3.80	V	-50.30	-25.00	1	1
	7 778.97	-56.25	11.26	-49.18	4.70	V	-42.62	-25.00		
	10 371.96	-64.24	11.68	-53.15	5.55	V	-47.02	-25.00		
534996 (2674.980)	5 349.96	-53.53	11.94	-55.22	3.85	V	-47.13	-25.00	1	1
	8 024.94	-55.57	11.20	-48.32	4.79	V	-41.91	-25.00		
	10 699.92	-57.06	11.57	-45.06	5.67	V	-39.16	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 40 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ 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
503202 (2516.010)	5 032.02	-52.76	11.19	-53.60	3.67	V	-46.08	-25.00	1	53
	7 548.03	-58.88	11.59	-51.51	4.63	V	-44.55	-25.00		
	10 064.04	-62.78	11.42	-53.56	5.47	V	-47.61	-25.00		
518598 (2592.990)	5 185.98	-58.05	11.61	-59.22	3.80	V	-51.41	-25.00	1	1
	7 778.97	-57.15	11.26	-50.08	4.70	V	-43.52	-25.00		
	10 371.96	-64.50	11.68	-53.41	5.55	V	-47.28	-25.00		
534000 (2670.000)	5 340.00	-63.26	11.93	-65.24	3.80	V	-57.11	-25.00	1	1
	8 010.00	-52.25	11.17	-44.93	4.77	V	-38.53	-25.00		
	10 680.00	-54.97	11.57	-42.39	5.71	V	-36.53	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 50 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ 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
504204 (2521.020)	5 042.04	-53.32	11.20	-54.36	3.68	V	-46.84	-25.00	1	66
	7 563.06	-58.81	11.60	-51.28	4.64	V	-44.32	-25.00		
	10 084.08	-61.07	11.40	-51.84	5.46	V	-45.90	-25.00		
518598 (2592.990)	5 185.98	-57.87	11.61	-59.04	3.80	V	-51.23	-25.00	1	1
	7 778.97	-56.72	11.26	-49.65	4.70	V	-43.09	-25.00		
	10 371.96	-63.77	11.68	-52.68	5.55	V	-46.55	-25.00		
532998 (2664.990)	5 329.98	-57.95	11.92	-59.68	3.77	V	-51.53	-25.00	1	1
	7 994.97	-52.52	11.13	-44.97	4.77	V	-38.61	-25.00		
	10 659.96	-57.95	11.58	-45.55	5.67	V	-39.64	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 60 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ 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
505200 (2526.000)	5 052.00	-54.04	11.22	-55.51	3.73	V	-48.02	-25.00	1	82
	7 578.00	-58.48	11.61	-50.82	4.65	V	-43.86	-25.00		
	10 104.00	-61.58	11.39	-52.02	5.46	V	-46.09	-25.00		
518598 (2592.990)	5 185.98	-58.80	11.61	-59.97	3.80	V	-52.16	-25.00	1	1
	7 778.97	-56.48	11.26	-49.41	4.70	V	-42.85	-25.00		
	10 371.96	-64.44	11.68	-53.35	5.55	V	-47.22	-25.00		
531996 (2659.980)	5 319.96	-62.42	11.91	-63.97	3.79	V	-55.85	-25.00	1	82
	7 979.94	-54.58	11.10	-46.88	4.79	V	-40.57	-25.00		
	10 639.92	-54.61	11.58	-42.23	5.61	V	-36.26	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 70 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ 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
506202 (2531.010)	5 062.02	-55.39	11.24	-56.76	3.78	V	-49.30	-25.00	1	94
	7 593.03	-57.70	11.62	-50.42	4.64	V	-43.44	-25.00		
	10 124.04	-61.11	11.37	-51.42	5.47	V	-45.52	-25.00		
518598 (2592.990)	5 185.98	-54.08	11.61	-55.25	3.80	V	-47.44	-25.00	1	1
	7 778.97	-56.84	11.26	-49.77	4.70	V	-43.21	-25.00		
	10 371.96	-64.13	11.68	-53.04	5.55	V	-46.91	-25.00		
531000 (2655.000)	5 310.00	-63.49	11.91	-64.60	3.82	V	-56.51	-25.00	1	1
	7 965.00	-55.56	11.07	-47.74	4.80	V	-41.47	-25.00		
	10 620.00	-63.78	11.58	-51.74	5.65	V	-45.81	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 80 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ 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
507204 (2536.020)	5 072.04	-57.12	11.25	-58.28	3.80	V	-50.83	-25.00	1	108
	7 608.06	-56.81	11.60	-49.93	4.64	V	-42.97	-25.00		
	10 144.08	-61.72	11.36	-52.11	5.48	V	-46.23	-25.00		
518598 (2592.990)	5 185.98	-56.80	11.61	-57.97	3.80	V	-50.16	-25.00	1	1
	7 778.97	-56.75	11.26	-49.68	4.70	V	-43.12	-25.00		
	10 371.96	-64.15	11.68	-53.06	5.55	V	-46.93	-25.00		
529998 (2649.990)	5 299.98	-62.70	11.90	-64.20	3.83	V	-56.13	-25.00	1	1
	7 949.97	-56.72	11.03	-49.07	4.78	V	-42.82	-25.00		
	10 599.96	-64.70	11.58	-53.41	5.67	V	-47.50	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 90 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ 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
508200 (2541.000)	5 082.00	-56.10	11.27	-56.90	3.81	V	-49.44	-25.00	1	122
	7 623.00	-57.78	11.57	-50.84	4.65	V	-43.92	-25.00		
	10 164.00	-63.10	11.34	-53.24	5.50	V	-47.40	-25.00		
518598 (2592.990)	5 185.98	-56.76	11.61	-57.93	3.80	V	-50.12	-25.00	1	1
	7 778.97	-58.12	11.26	-51.05	4.70	V	-44.49	-25.00		
	10 371.96	-63.07	11.68	-51.98	5.55	V	-45.85	-25.00		
528996 (2644.980)	5 289.96	-62.98	11.89	-64.56	3.83	V	-56.50	-25.00	1	1
	7 934.94	-56.85	11.01	-49.47	4.77	V	-43.23	-25.00		
	10 579.92	-62.43	11.62	-51.28	5.65	V	-45.31	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 100 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ 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
509202 (2546.010)	5 092.02	-57.52	11.29	-58.40	3.78	V	-50.89	-25.00	1	136
	7 638.03	-57.02	11.54	-50.05	4.68	V	-43.19	-25.00		
	10 184.04	-60.71	11.35	-50.67	5.52	V	-44.84	-25.00		
518598 (2592.990)	5 185.98	-55.70	11.61	-56.87	3.80	V	-49.06	-25.00	1	1
	7 778.97	-58.41	11.26	-51.34	4.70	V	-44.78	-25.00		
	10 371.96	-64.85	11.68	-53.76	5.55	V	-47.63	-25.00		
528000 (2640.000)	5 280.00	-62.16	11.88	-64.19	3.80	V	-56.11	-25.00	1	1
	7 920.00	-57.01	11.02	-49.59	4.77	V	-43.34	-25.00		
	10 560.00	-64.35	11.65	-53.41	5.63	V	-47.39	-25.00		

8.3 PEAK-TO-AVERAGE RATIO

Band / BandWidth	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)	Limit (dB)
Sub6 n41 / 10 MHz	2592.990	BPSK	24	0	4.44	13.00
		QPSK			5.71	
		16-QAM			6.37	
		64-QAM			6.60	
		256-QAM			6.39	
Sub6 n41 / 15 MHz		BPSK	36		4.35	
		QPSK			5.69	
		16-QAM			6.33	
		64-QAM			6.60	
		256-QAM			6.54	
Sub6 n41 / 20 MHz		BPSK	50		4.80	
		QPSK			5.77	
		16-QAM			6.41	
		64-QAM			6.52	
		256-QAM			6.49	
Sub6 n41 / 30 MHz		BPSK	75		4.50	
		QPSK			5.85	
		16-QAM			6.46	
		64-QAM			6.55	
		256-QAM			6.55	
Sub6 n41 / 40 MHz		BPSK	100		5.00	
		QPSK			5.84	
		16-QAM			6.44	
		64-QAM			6.59	
		256-QAM			6.46	
Sub6 n41 / 50 MHz		BPSK	128		4.78	
		QPSK			5.74	
		16-QAM			6.38	
		64-QAM			6.48	
		256-QAM			6.52	

Sub6 n41 / 60 MHz	BPSK	162	4.67
	QPSK		5.72
	16-QAM		6.38
	64-QAM		6.50
	256-QAM		6.53
Sub6 n41 / 70 MHz	BPSK	180	6.04
	QPSK		6.17
	16-QAM		6.48
	64-QAM		6.60
	256-QAM		6.50
Sub6 n41 / 80 MHz	BPSK	216	4.47
	QPSK		5.71
	16-QAM		6.39
	64-QAM		6.50
	256-QAM		6.57
Sub6 n41 / 90 MHz	BPSK	243	4.57
	QPSK		5.67
	16-QAM		6.41
	64-QAM		6.52
	256-QAM		6.58
Sub6 n41 / 100 MHz	BPSK	270	4.49
	QPSK		5.71
	16-QAM		6.49
	64-QAM		6.57
	256-QAM		6.61

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 69 ~ 123.

8.4 OCCUPIED BANDWIDTH

Band / BandWidth	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n41 / 10 MHz	2592.990	BPSK	24	0	8.7141
		QPSK			8.6915
		16-QAM			8.7042
		64-QAM			8.7401
		256-QAM			8.6926
Sub6 n41 / 15 MHz		BPSK	36		12.977
		QPSK			13.022
		16-QAM			13.013
		64-QAM			12.965
		256-QAM			13.024
Sub6 n41 / 20 MHz		BPSK	50		18.010
		QPSK			17.998
		16-QAM			18.042
		64-QAM			17.917
		256-QAM			17.971
Sub6 n41 / 30 MHz		BPSK	75		27.018
		QPSK			26.988
		16-QAM			26.982
		64-QAM			26.979
		256-QAM			26.899
Sub6 n41 / 40 MHz		BPSK	100		35.915
		QPSK			35.961
		16-QAM			35.896
		64-QAM			35.950
		256-QAM			35.794
Sub6 n41 / 50 MHz		BPSK	128		46.136
		QPSK			46.044
		16-QAM			45.940
		64-QAM			46.058
		256-QAM			45.814

Sub6 n41 / 60 MHz	BPSK	162	58.301
	QPSK		58.180
	16-QAM		58.416
	64-QAM		58.111
	256-QAM		58.249
Sub6 n41 / 70 MHz	BPSK	180	64.891
	QPSK		64.879
	16-QAM		64.524
	64-QAM		64.718
	256-QAM		64.908
Sub6 n41 / 80 MHz	BPSK	216	77.709
	QPSK		77.497
	16-QAM		77.297
	64-QAM		77.524
	256-QAM		77.589
Sub6 n41 / 90 MHz	BPSK	243	87.075
	QPSK		87.290
	16-QAM		87.474
	64-QAM		87.361
	256-QAM		87.215
Sub6 n41 / 100 MHz	BPSK	270	96.799
	QPSK		96.940
	16-QAM		96.656
	64-QAM		96.682
	256-QAM		96.820

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 124 ~ 178.

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)
Sub 6 n41 / 10	2501.010	3.9582	29.722	-63.513	-33.791	-25.00
	2592.990	3.9682	29.722	-62.996	-33.274	
	2685.000	7.0289	30.315	-63.343	-33.028	
Sub 6 n41 / 15	2503.500	4.7757	29.722	-63.407	-33.685	
	2592.990	3.9083	29.722	-62.487	-32.765	
	2682.480	6.9891	30.315	-62.579	-32.264	
Sub 6 n41 / 20	2506.020	9.0329	30.315	-63.679	-33.364	
	2592.990	5.0250	30.315	-63.332	-33.017	
	2679.990	4.7558	29.722	-62.483	-32.761	
Sub 6 n41 / 30	2511.000	8.3749	30.315	-63.423	-33.108	
	2592.990	4.7658	29.722	-63.632	-33.910	
	2674.980	9.8405	30.315	-63.424	-33.109	
Sub 6 n41 / 40	2516.010	3.7289	29.722	-63.890	-34.168	
	2592.990	4.7957	29.722	-63.618	-33.896	
	2670.000	2.7219	29.722	-62.051	-32.329	
Sub 6 n41 / 50	2521.020	4.7857	29.722	-62.797	-33.075	
	2592.990	3.8685	29.722	-63.801	-34.079	
	2664.990	4.7757	29.722	-61.595	-31.873	
Sub 6 n41 / 60	2526.000	4.7957	29.722	-62.826	-33.104	
	2592.990	4.8355	29.722	-63.130	-33.408	
	2659.980	7.4676	30.315	-62.841	-32.526	
Sub 6 n41 / 70	2531.010	3.9682	29.722	-62.999	-33.277	
	2592.990	4.3570	29.722	-62.940	-33.218	
	2655.000	3.8984	29.722	-63.622	-33.900	
Sub 6 n41 / 80	2536.020	9.6810	30.315	-63.438	-33.123	
	2592.990	6.8395	30.315	-63.560	-33.245	
	2649.990	3.9582	29.722	-62.633	-32.911	
Sub 6 n41 / 90	2541.000	3.7289	29.722	-62.542	-32.820	
	2592.990	4.9851	29.722	-63.992	-34.270	
	2644.980	2.7219	29.722	-63.082	-33.360	
Sub 6 n41 / 100	2546.010	3.7588	29.722	-63.473	-33.751	
	2592.990	4.7857	29.722	-63.690	-33.968	
	2640.000	4.7757	29.722	-63.048	-33.326	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 239 ~ 310.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

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 CHANNEL EDGE

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	2 495 MHz ~ 2 496 MHz	C.E ~ (C.E +1MHz)	2 490.5 MHz ~ 2 495 MHz	(C.E + 1 MHz) ~ (C.E + 5 MHz)	Below 2 490.5 MHz	(C.E + 5 MHz) ~ (C.E + X MHz)	Above (C.E + X MHz)
				Lower	Upper	Lower	Upper	Lower	Upper	Upper
10	2501.010	BPSK	Full RB	-23.94	-23.39	-28.31	-27.67	-37.56	-36.10	-40.13
15	2503.500	BPSK	Full RB	-23.64	-31.52	-29.40	-35.17	-36.63	-35.95	-42.58
20	2506.020	BPSK	Full RB	-25.83	-29.56	-32.58	-34.25	-36.68	-36.05	-44.12
30	2511.000	BPSK	Full RB	-26.85	-37.35	-35.10	-37.92	-39.91	-37.78	-42.65
40	2516.010	BPSK	Full RB	-26.11	-37.48	-35.66	-36.35	-38.46	-37.59	-45.39
50	2521.020	BPSK	Full RB	-23.94	-34.30	-31.63	-37.81	-42.43	-39.37	-43.67
60	2526.000	BPSK	Full RB	-18.86	-19.27	-28.28	-27.68	-41.02	-37.79	-44.41
70	2531.010	BPSK	Full RB	-22.66	-34.44	-28.18	-36.60	-39.72	-37.34	-44.66
80	2536.020	BPSK	Full RB	-24.09	-24.45	-30.27	-28.81	-40.89	-37.68	-46.27
90	2541.000	BPSK	Full RB	-22.70	-28.10	-29.92	-31.55	-41.43	-37.55	-48.18
100	2546.010	BPSK	Full RB	-22.44	-29.29	-30.84	-32.54	-41.82	-37.85	-51.87
Limit (dBm)				-13.0	-10.0	-13.0	-10.0	-25.0	-13.0	-25.0

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	C.E ~ (C.E $\pm$ 1 MHz)		(C.E $\pm$ 1 MHz) ~ (C.E $\pm$ 5 MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2592.990	BPSK	Full RB	0	-23.27	-23.41	-27.20	-26.94
	2685.000	BPSK	Full RB	0	-23.27	-23.38	-27.25	-27.74
15 MHz	2592.990	BPSK	Full RB	0	-23.42	-33.22	-29.11	-33.97
	2682.480	BPSK	Full RB	0	-23.41	-33.87	-29.36	-36.47
20 MHz	2592.990	BPSK	Full RB	0	-24.41	-30.27	-30.83	-34.42
	2679.990	BPSK	Full RB	0	-24.75	-30.06	-31.66	-36.15
30 MHz	2592.990	BPSK	Full RB	0	-26.37	-37.52	-33.95	-38.23
	2674.980	BPSK	Full RB	0	-26.25	-39.28	-34.45	-40.02
40 MHz	2592.990	BPSK	Full RB	0	-25.26	-39.72	-34.45	-38.68
	2670.000	BPSK	Full RB	0	-25.63	-41.62	-35.57	-40.08
50 MHz	2592.990	BPSK	Full RB	0	-23.34	-35.66	-30.57	-38.83
	2664.990	BPSK	Full RB	0	-22.34	-36.01	-29.86	-39.56
60 MHz	2592.990	BPSK	Full RB	0	-18.24	-20.80	-26.91	-28.97
	2659.980	BPSK	Full RB	0	-17.36	-19.92	-26.33	-27.82
70 MHz	2592.990	BPSK	Full RB	0	-22.15	-34.91	-27.59	-37.20
	2655.000	BPSK	Full RB	0	-21.72	-36.16	-27.05	-38.14
80 MHz	2592.990	BPSK	Full RB	0	-21.30	-28.25	-27.45	-32.44
	2649.990	BPSK	Full RB	0	-21.73	-28.23	-28.10	-32.26
90 MHz	2592.990	BPSK	Full RB	0	-22.12	-30.19	-28.90	-33.55
	2644.980	BPSK	Full RB	0	-20.64	-28.94	-27.31	-32.58
100 MHz	2592.990	BPSK	Full RB	0	-20.93	-30.33	-29.54	-33.51
	2640.000	BPSK	Full RB	0	-19.18	-30.03	-27.14	-33.48
Limit (dBm)					-10.0		-10.0	

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	(C.E $\pm$ 5 MHz) ~ (C.E $\pm$ X MHz)		Above (C.E $\pm$ X MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2592.990	BPSK	Full RB	0	-35.06	-35.36	-42.51	-42.63
	2685.000	BPSK	Full RB	0	-36.51	-37.97	-41.57	-42.98
15 MHz	2592.990	BPSK	Full RB	0	-33.82	-34.85	-43.77	-43.92
	2682.480	BPSK	Full RB	0	-35.19	-37.00	-41.95	-43.75
20 MHz	2592.990	BPSK	Full RB	0	-34.81	-34.95	-42.05	-43.03
	2679.990	BPSK	Full RB	0	-36.28	-38.17	-46.24	-46.99
30 MHz	2592.990	BPSK	Full RB	0	-36.30	-37.23	-41.86	-43.66
	2674.980	BPSK	Full RB	0	-37.23	-39.57	-42.68	-45.50
40 MHz	2592.990	BPSK	Full RB	0	-37.16	-38.11	-46.14	-47.05
	2670.000	BPSK	Full RB	0	-38.17	-40.17	-47.65	-52.53
50 MHz	2592.990	BPSK	Full RB	0	-38.12	-38.76	-42.84	-44.21
	2664.990	BPSK	Full RB	0	-38.59	-40.05	-42.12	-51.07
60 MHz	2592.990	BPSK	Full RB	0	-37.60	-38.34	-43.60	-44.86
	2659.980	BPSK	Full RB	0	-36.21	-38.46	-42.05	-53.34
70 MHz	2592.990	BPSK	Full RB	0	-38.06	-38.14	-45.33	-46.79
	2655.000	BPSK	Full RB	0	-37.31	-40.05	-43.09	-54.04
80 MHz	2592.990	BPSK	Full RB	0	-36.52	-38.57	-53.95	-49.35
	2649.990	BPSK	Full RB	0	-38.06	-39.85	-44.75	-53.98
90 MHz	2592.990	BPSK	Full RB	0	-38.34	-38.40	-54.41	-52.93
	2644.980	BPSK	Full RB	0	-37.69	-39.65	-47.68	-53.94
100 MHz	2592.990	BPSK	Full RB	0	-38.65	-38.81	-54.39	-53.70
	2640.000	BPSK	Full RB	0	-37.03	-40.22	-51.45	-53.95
Limit (dBm)					-13.0		-25.0	

Note:

1. C.E = Channel Edge
2. X = X is the greater of 6 MHz or the actual emission bandwidth
3. 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) = 6.99
4. Plots of the EUT's Channel Edge are shown Page 245 ~ 321. (1RB & Full RB)

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

BandWidth:	10 MHz
Voltage(100 %):	3.860 VDC
Batt. Endpoint:	2.750 VDC
LIMIT:	Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2501.010	100 %	+20(Ref)	2501 009 994	0.0	0.000 000	0.000
	100 %	-30	2501 009 987	-6.9	0.000 000	-0.003
	100 %	-20	2501 009 987	-7.0	0.000 000	-0.003
	100 %	-10	2501 009 987	-7.1	0.000 000	-0.003
	100 %	0	2501 009 987	-6.8	0.000 000	-0.003
	100 %	+10	2501 009 989	-4.8	0.000 000	-0.002
	100 %	+30	2501 009 991	-3.3	0.000 000	-0.001
	100 %	+40	2501 009 987	-6.9	0.000 000	-0.003
	100 %	+50	2501 009 989	-4.8	0.000 000	-0.002
	Batt. Endpoint	+20	2501 009 988	-5.8	0.000 000	-0.002
2685.000	100 %	+20(Ref)	2684 999 996	0.0	0.000 000	0.000
	100 %	-30	2684 999 991	-4.8	0.000 000	-0.002
	100 %	-20	2684 999 990	-6.4	0.000 000	-0.002
	100 %	-10	2684 999 991	-5.0	0.000 000	-0.002
	100 %	0	2684 999 990	-5.8	0.000 000	-0.002
	100 %	+10	2684 999 990	-5.8	0.000 000	-0.002
	100 %	+30	2684 999 990	-6.2	0.000 000	-0.002
	100 %	+40	2684 999 990	-6.4	0.000 000	-0.002
	100 %	+50	2684 999 987	-9.7	0.000 000	-0.004
	Batt. Endpoint	+20	2684 999 993	-3.1	0.000 000	-0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2503.500	100 %	+20(Ref)	2503 499 994	0.0	0.000 000	0.000
	100 %	-30	2503 499 988	-6.3	0.000 000	-0.002
	100 %	-20	2503 499 989	-4.9	0.000 000	-0.002
	100 %	-10	2503 499 989	-5.3	0.000 000	-0.002
	100 %	0	2503 499 986	-8.1	0.000 000	-0.003
	100 %	+10	2503 499 991	-2.8	0.000 000	-0.001
	100 %	+30	2503 499 989	-5.2	0.000 000	-0.002
	100 %	+40	2503 499 988	-5.6	0.000 000	-0.002
	100 %	+50	2503 499 989	-5.4	0.000 000	-0.002
	Batt. Endpoint	+20	2503 499 989	-4.9	0.000 000	-0.002
2682.480	100 %	+20(Ref)	2682 479 994	0.0	0.000 000	0.000
	100 %	-30	2682 479 987	-6.9	0.000 000	-0.003
	100 %	-20	2682 479 988	-5.9	0.000 000	-0.002
	100 %	-10	2682 479 986	-7.5	0.000 000	-0.003
	100 %	0	2682 479 986	-7.4	0.000 000	-0.003
	100 %	+10	2682 479 988	-5.1	0.000 000	-0.002
	100 %	+30	2682 479 989	-4.3	0.000 000	-0.002
	100 %	+40	2682 479 986	-7.2	0.000 000	-0.003
	100 %	+50	2682 479 986	-7.2	0.000 000	-0.003
	Batt. Endpoint	+20	2682 479 987	-6.2	0.000 000	-0.002

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2506.020	100 %	+20(Ref)	2506 019 995	0.0	0.000 000	0.000
	100 %	-30	2506 019 989	-6.8	0.000 000	-0.003
	100 %	-20	2506 019 989	-6.6	0.000 000	-0.003
	100 %	-10	2506 019 990	-5.3	0.000 000	-0.002
	100 %	0	2506 019 989	-6.5	0.000 000	-0.003
	100 %	+10	2506 019 989	-6.4	0.000 000	-0.003
	100 %	+30	2506 019 990	-5.6	0.000 000	-0.002
	100 %	+40	2506 019 990	-5.5	0.000 000	-0.002
	100 %	+50	2506 019 990	-5.7	0.000 000	-0.002
	Batt. Endpoint	+20	2506 019 989	-6.2	0.000 000	-0.002
2679.990	100 %	+20(Ref)	2679 989 997	0.0	0.000 000	0.000
	100 %	-30	2679 989 992	-4.2	0.000 000	-0.002
	100 %	-20	2679 989 990	-6.5	0.000 000	-0.002
	100 %	-10	2679 989 991	-5.9	0.000 000	-0.002
	100 %	0	2679 989 994	-2.5	0.000 000	-0.001
	100 %	+10	2679 989 993	-3.6	0.000 000	-0.001
	100 %	+30	2679 989 992	-4.3	0.000 000	-0.002
	100 %	+40	2679 989 993	-4.0	0.000 000	-0.002
	100 %	+50	2679 989 991	-5.2	0.000 000	-0.002
	Batt. Endpoint	+20	2679 989 994	-2.9	0.000 000	-0.001

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2511.000	100 %	+20(Ref)	2510 999 998	0.0	0.000 000	0.000
	100 %	-30	2510 999 994	-3.6	0.000 000	-0.001
	100 %	-20	2510 999 993	-4.6	0.000 000	-0.002
	100 %	-10	2510 999 996	-2.5	0.000 000	-0.001
	100 %	0	2510 999 993	-4.6	0.000 000	-0.002
	100 %	+10	2510 999 994	-3.8	0.000 000	-0.002
	100 %	+30	2510 999 993	-4.9	0.000 000	-0.002
	100 %	+40	2510 999 993	-4.8	0.000 000	-0.002
	100 %	+50	2510 999 995	-3.3	0.000 000	-0.001
	Batt. Endpoint	+20	2510 999 993	-5.4	0.000 000	-0.002
2674.980	100 %	+20(Ref)	2674 979 993	0.0	0.000 000	0.000
	100 %	-30	2674 979 986	-7.7	0.000 000	-0.003
	100 %	-20	2674 979 987	-6.2	0.000 000	-0.002
	100 %	-10	2674 979 986	-7.3	0.000 000	-0.003
	100 %	0	2674 979 988	-5.5	0.000 000	-0.002
	100 %	+10	2674 979 988	-5.5	0.000 000	-0.002
	100 %	+30	2674 979 987	-6.2	0.000 000	-0.002
	100 %	+40	2674 979 986	-6.7	0.000 000	-0.003
	100 %	+50	2674 979 988	-5.3	0.000 000	-0.002
	Batt. Endpoint	+20	2674 979 986	-6.7	0.000 000	-0.003

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2516.010	100 %	+20(Ref)	2516 009 996	0.0	0.000 000	0.000
	100 %	-30	2516 009 993	-3.3	0.000 000	-0.001
	100 %	-20	2516 009 991	-5.4	0.000 000	-0.002
	100 %	-10	2516 009 991	-5.2	0.000 000	-0.002
	100 %	0	2516 009 990	-6.4	0.000 000	-0.003
	100 %	+10	2516 009 991	-5.2	0.000 000	-0.002
	100 %	+30	2516 009 991	-5.1	0.000 000	-0.002
	100 %	+40	2516 009 988	-8.4	0.000 000	-0.003
	100 %	+50	2516 009 991	-4.5	0.000 000	-0.002
	Batt. Endpoint	+20	2516 009 990	-6.3	0.000 000	-0.003
2670.000	100 %	+20(Ref)	2669 999 993	0.0	0.000 000	0.000
	100 %	-30	2669 999 987	-6.1	0.000 000	-0.002
	100 %	-20	2669 999 986	-6.5	0.000 000	-0.002
	100 %	-10	2669 999 986	-7.1	0.000 000	-0.003
	100 %	0	2669 999 988	-4.2	0.000 000	-0.002
	100 %	+10	2669 999 986	-7.0	0.000 000	-0.003
	100 %	+30	2669 999 988	-5.0	0.000 000	-0.002
	100 %	+40	2669 999 986	-6.6	0.000 000	-0.002
	100 %	+50	2669 999 986	-6.2	0.000 000	-0.002
	Batt. Endpoint	+20	2669 999 987	-6.0	0.000 000	-0.002

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2521.020	100 %	+20(Ref)	2521 019 998	0.0	0.000 000	0.000
	100 %	-30	2521 019 993	-5.2	0.000 000	-0.002
	100 %	-20	2521 019 993	-4.9	0.000 000	-0.002
	100 %	-10	2521 019 993	-5.0	0.000 000	-0.002
	100 %	0	2521 019 993	-5.0	0.000 000	-0.002
	100 %	+10	2521 019 992	-5.8	0.000 000	-0.002
	100 %	+30	2521 019 993	-5.2	0.000 000	-0.002
	100 %	+40	2521 019 995	-3.2	0.000 000	-0.001
	100 %	+50	2521 019 992	-5.6	0.000 000	-0.002
	Batt. Endpoint	+20	2521 019 993	-5.1	0.000 000	-0.002
2664.990	100 %	+20(Ref)	2664 989 993	0.0	0.000 000	0.000
	100 %	-30	2664 989 987	-5.7	0.000 000	-0.002
	100 %	-20	2664 989 988	-4.4	0.000 000	-0.002
	100 %	-10	2664 989 985	-7.3	0.000 000	-0.003
	100 %	0	2664 989 986	-6.4	0.000 000	-0.002
	100 %	+10	2664 989 986	-6.3	0.000 000	-0.002
	100 %	+30	2664 989 987	-5.4	0.000 000	-0.002
	100 %	+40	2664 989 987	-5.3	0.000 000	-0.002
	100 %	+50	2664 989 986	-6.4	0.000 000	-0.002
	Batt. Endpoint	+20	2664 989 987	-5.6	0.000 000	-0.002

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2526.000	100 %	+20(Ref)	2525 999 993	0.0	0.000 000	0.000
	100 %	-30	2525 999 985	-7.8	0.000 000	-0.003
	100 %	-20	2525 999 988	-5.1	0.000 000	-0.002
	100 %	-10	2525 999 985	-7.8	0.000 000	-0.003
	100 %	0	2525 999 987	-6.3	0.000 000	-0.003
	100 %	+10	2525 999 986	-7.4	0.000 000	-0.003
	100 %	+30	2525 999 988	-5.0	0.000 000	-0.002
	100 %	+40	2525 999 988	-5.4	0.000 000	-0.002
	100 %	+50	2525 999 986	-6.9	0.000 000	-0.003
	Batt. Endpoint	+20	2525 999 984	-9.3	0.000 000	-0.004
2659.980	100 %	+20(Ref)	2659 979 991	0.0	0.000 000	0.000
	100 %	-30	2659 979 983	-8.7	0.000 000	-0.003
	100 %	-20	2659 979 983	-7.9	0.000 000	-0.003
	100 %	-10	2659 979 983	-8.2	0.000 000	-0.003
	100 %	0	2659 979 983	-8.1	0.000 000	-0.003
	100 %	+10	2659 979 983	-8.1	0.000 000	-0.003
	100 %	+30	2659 979 985	-6.0	0.000 000	-0.002
	100 %	+40	2659 979 985	-6.5	0.000 000	-0.002
	100 %	+50	2659 979 984	-7.8	0.000 000	-0.003
	Batt. Endpoint	+20	2659 979 984	-7.0	0.000 000	-0.003

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2531.010	100 %	+20(Ref)	2531 009 995	0.0	0.000 000	0.000
	100 %	-30	2531 009 990	-5.3	0.000 000	-0.002
	100 %	-20	2531 009 989	-6.2	0.000 000	-0.002
	100 %	-10	2531 009 988	-7.6	0.000 000	-0.003
	100 %	0	2531 009 991	-4.0	0.000 000	-0.002
	100 %	+10	2531 009 990	-5.6	0.000 000	-0.002
	100 %	+30	2531 009 990	-5.4	0.000 000	-0.002
	100 %	+40	2531 009 988	-7.1	0.000 000	-0.003
	100 %	+50	2531 009 989	-5.8	0.000 000	-0.002
	Batt. Endpoint	+20	2531 009 989	-6.7	0.000 000	-0.003
2655.000	100 %	+20(Ref)	2654 999 992	0.0	0.000 000	0.000
	100 %	-30	2654 999 983	-9.5	0.000 000	-0.004
	100 %	-20	2654 999 986	-6.6	0.000 000	-0.003
	100 %	-10	2654 999 984	-8.3	0.000 000	-0.003
	100 %	0	2654 999 987	-5.4	0.000 000	-0.002
	100 %	+10	2654 999 986	-6.1	0.000 000	-0.002
	100 %	+30	2654 999 984	-7.9	0.000 000	-0.003
	100 %	+40	2654 999 982	-10.0	0.000 000	-0.004
	100 %	+50	2654 999 985	-7.1	0.000 000	-0.003
	Batt. Endpoint	+20	2654 999 985	-7.8	0.000 000	-0.003

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2536.020	100 %	+20(Ref)	2536 019 994	0.0	0.000 000	0.000
	100 %	-30	2536 019 990	-4.1	0.000 000	-0.002
	100 %	-20	2536 019 987	-6.5	0.000 000	-0.003
	100 %	-10	2536 019 988	-5.3	0.000 000	-0.002
	100 %	0	2536 019 988	-5.8	0.000 000	-0.002
	100 %	+10	2536 019 987	-6.4	0.000 000	-0.003
	100 %	+30	2536 019 989	-4.8	0.000 000	-0.002
	100 %	+40	2536 019 989	-4.5	0.000 000	-0.002
	100 %	+50	2536 019 989	-4.9	0.000 000	-0.002
	Batt. Endpoint	+20	2536 019 987	-6.4	0.000 000	-0.003
2649.990	100 %	+20(Ref)	2649 989 992	0.0	0.000 000	0.000
	100 %	-30	2649 989 985	-6.5	0.000 000	-0.002
	100 %	-20	2649 989 986	-6.1	0.000 000	-0.002
	100 %	-10	2649 989 986	-6.1	0.000 000	-0.002
	100 %	0	2649 989 986	-5.9	0.000 000	-0.002
	100 %	+10	2649 989 985	-7.0	0.000 000	-0.003
	100 %	+30	2649 989 985	-6.4	0.000 000	-0.002
	100 %	+40	2649 989 984	-7.5	0.000 000	-0.003
	100 %	+50	2649 989 985	-7.2	0.000 000	-0.003
	Batt. Endpoint	+20	2649 989 984	-7.5	0.000 000	-0.003

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

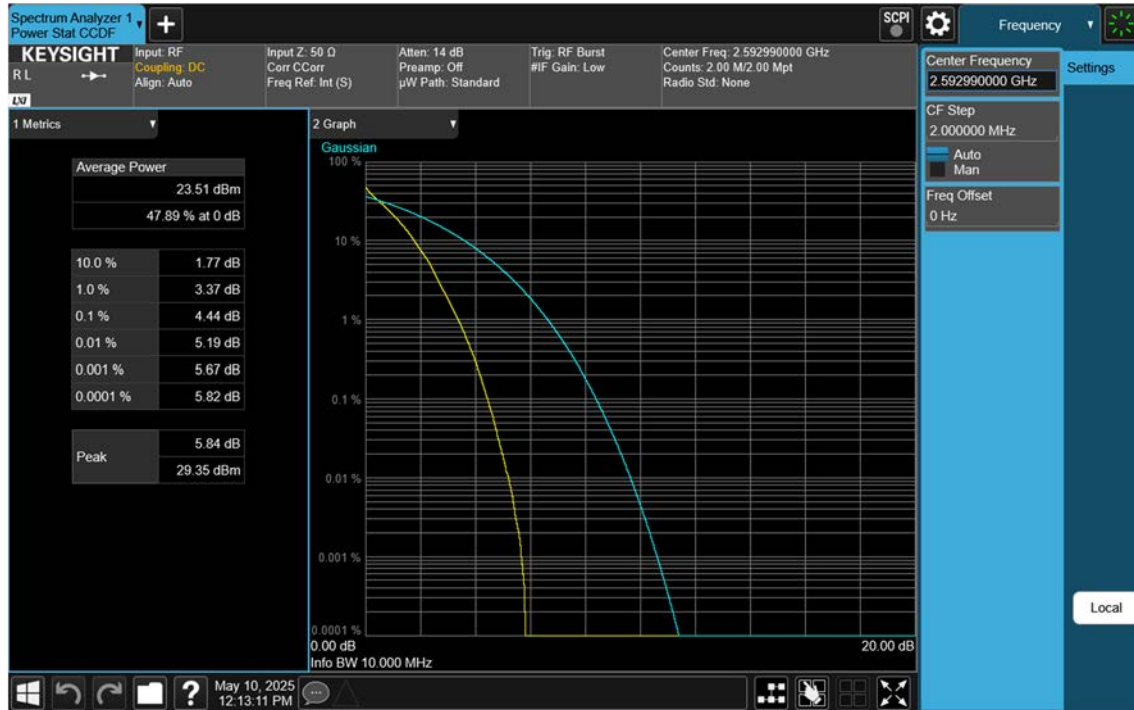
Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2541.000	100 %	+20(Ref)	2540 999 993	0.0	0.000 000	0.000
	100 %	-30	2540 999 988	-5.7	0.000 000	-0.002
	100 %	-20	2540 999 987	-6.4	0.000 000	-0.003
	100 %	-10	2540 999 988	-5.6	0.000 000	-0.002
	100 %	0	2540 999 989	-4.7	0.000 000	-0.002
	100 %	+10	2540 999 987	-6.3	0.000 000	-0.002
	100 %	+30	2540 999 989	-4.4	0.000 000	-0.002
	100 %	+40	2540 999 988	-5.5	0.000 000	-0.002
	100 %	+50	2540 999 986	-7.6	0.000 000	-0.003
	Batt. Endpoint	+20	2540 999 987	-6.5	0.000 000	-0.003
2644.980	100 %	+20(Ref)	2644 979 992	0.0	0.000 000	0.000
	100 %	-30	2644 979 987	-5.1	0.000 000	-0.002
	100 %	-20	2644 979 984	-8.0	0.000 000	-0.003
	100 %	-10	2644 979 986	-6.3	0.000 000	-0.002
	100 %	0	2644 979 985	-7.3	0.000 000	-0.003
	100 %	+10	2644 979 985	-7.7	0.000 000	-0.003
	100 %	+30	2644 979 985	-7.1	0.000 000	-0.003
	100 %	+40	2644 979 985	-7.6	0.000 000	-0.003
	100 %	+50	2644 979 987	-5.3	0.000 000	-0.002
	Batt. Endpoint	+20	2644 979 987	-5.7	0.000 000	-0.002

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

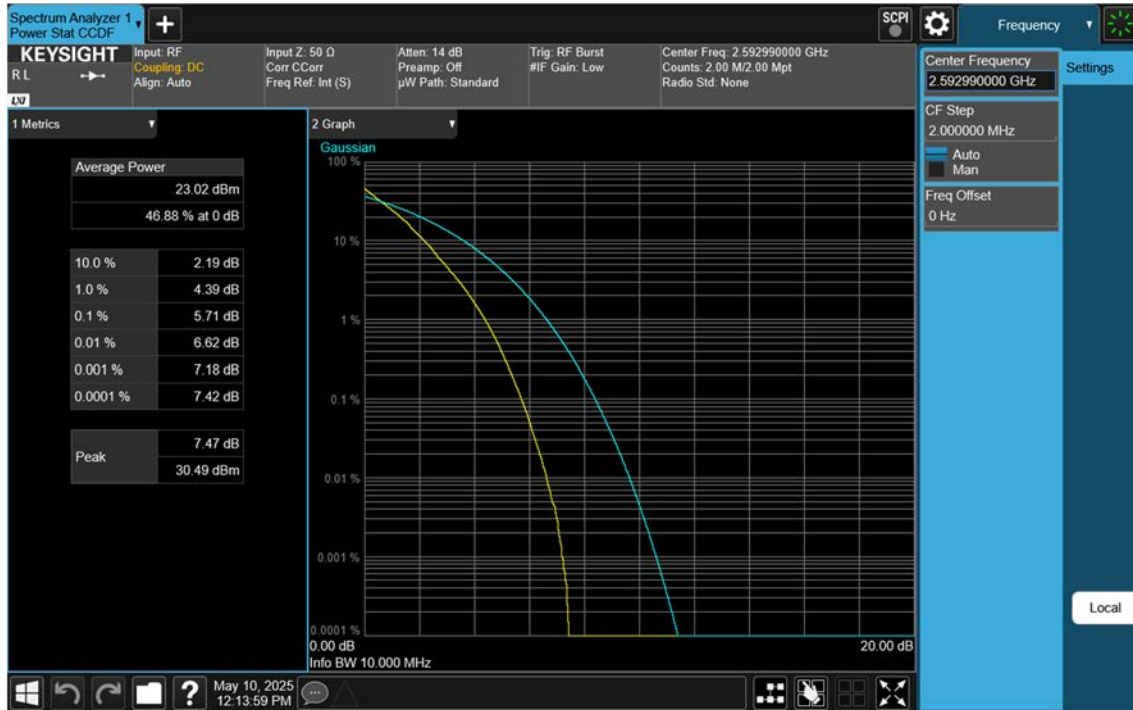
Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2546.010	100 %	+20(Ref)	2546 009 993	0.0	0.000 000	0.000
	100 %	-30	2546 009 988	-5.6	0.000 000	-0.002
	100 %	-20	2546 009 985	-8.2	0.000 000	-0.003
	100 %	-10	2546 009 988	-5.4	0.000 000	-0.002
	100 %	0	2546 009 989	-4.5	0.000 000	-0.002
	100 %	+10	2546 009 986	-7.5	0.000 000	-0.003
	100 %	+30	2546 009 985	-8.4	0.000 000	-0.003
	100 %	+40	2546 009 987	-6.3	0.000 000	-0.002
	100 %	+50	2546 009 988	-5.0	0.000 000	-0.002
	Batt. Endpoint	+20	2546 009 987	-6.6	0.000 000	-0.003
2640.000	100 %	+20(Ref)	2639 999 996	0.0	0.000 000	0.000
	100 %	-30	2639 999 989	-6.5	0.000 000	-0.002
	100 %	-20	2639 999 988	-7.4	0.000 000	-0.003
	100 %	-10	2639 999 991	-4.5	0.000 000	-0.002
	100 %	0	2639 999 987	-9.0	0.000 000	-0.003
	100 %	+10	2639 999 992	-4.0	0.000 000	-0.002
	100 %	+30	2639 999 989	-7.1	0.000 000	-0.003
	100 %	+40	2639 999 990	-6.3	0.000 000	-0.002
	100 %	+50	2639 999 990	-6.3	0.000 000	-0.002
	Batt. Endpoint	+20	2639 999 988	-7.3	0.000 000	-0.003

9. TEST PLOTS

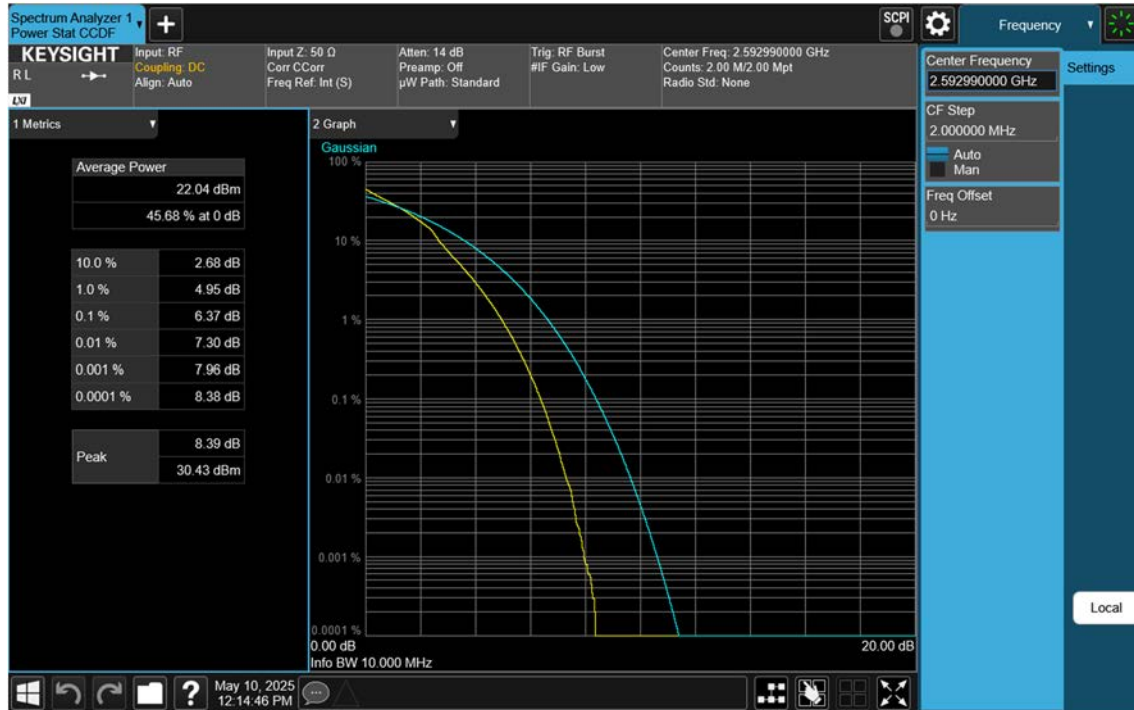
NR41_10 M_PAR_Mid_BPSK_FullRB



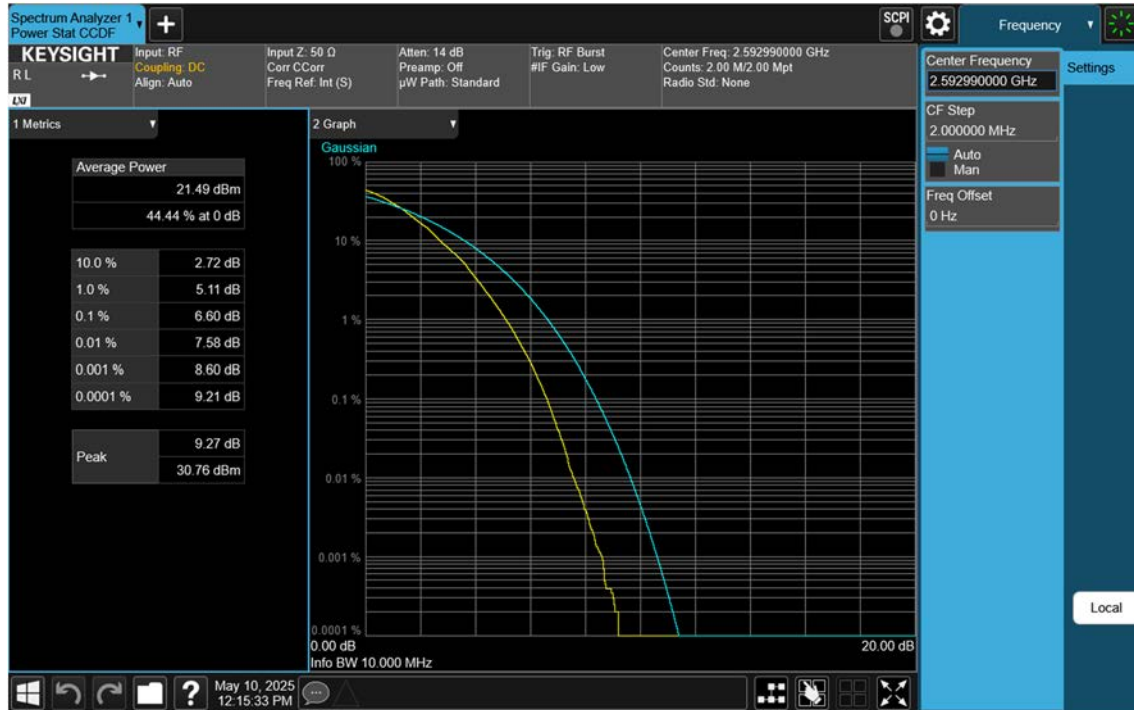
NR41_10 M_PAR_Mid_QPSK_FullRB



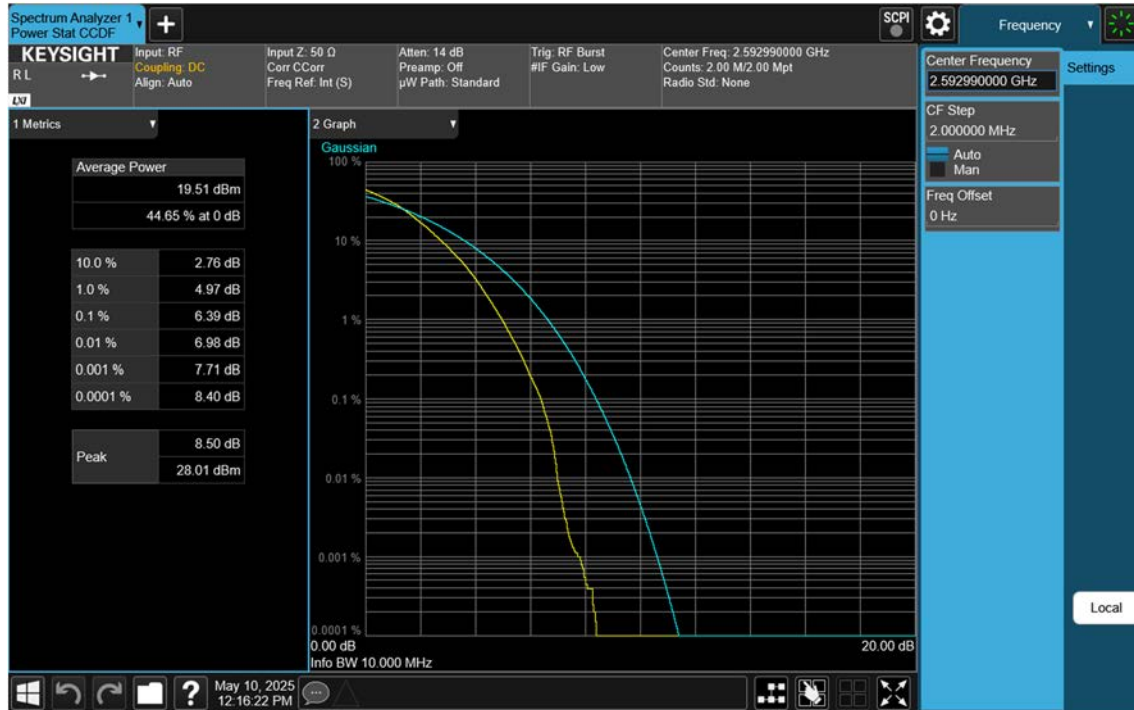
NR41_10 M_PAR_Mid_16QAM_FullRB



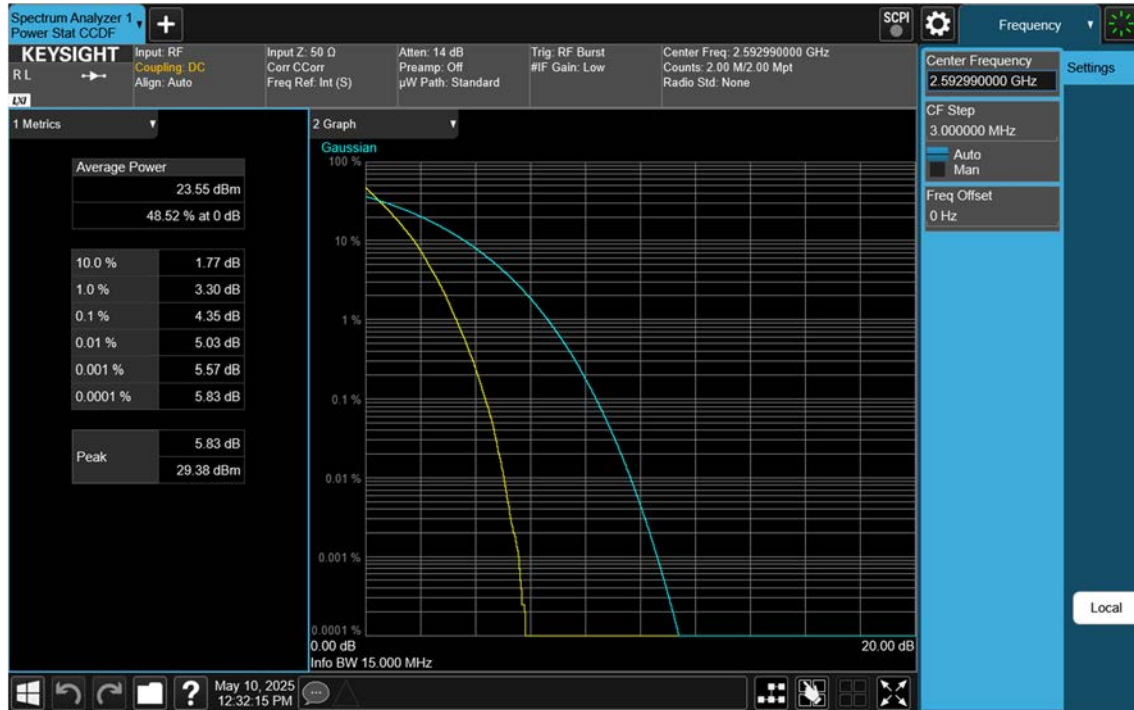
NR41_10 M_PAR_Mid_64QAM_FullRB



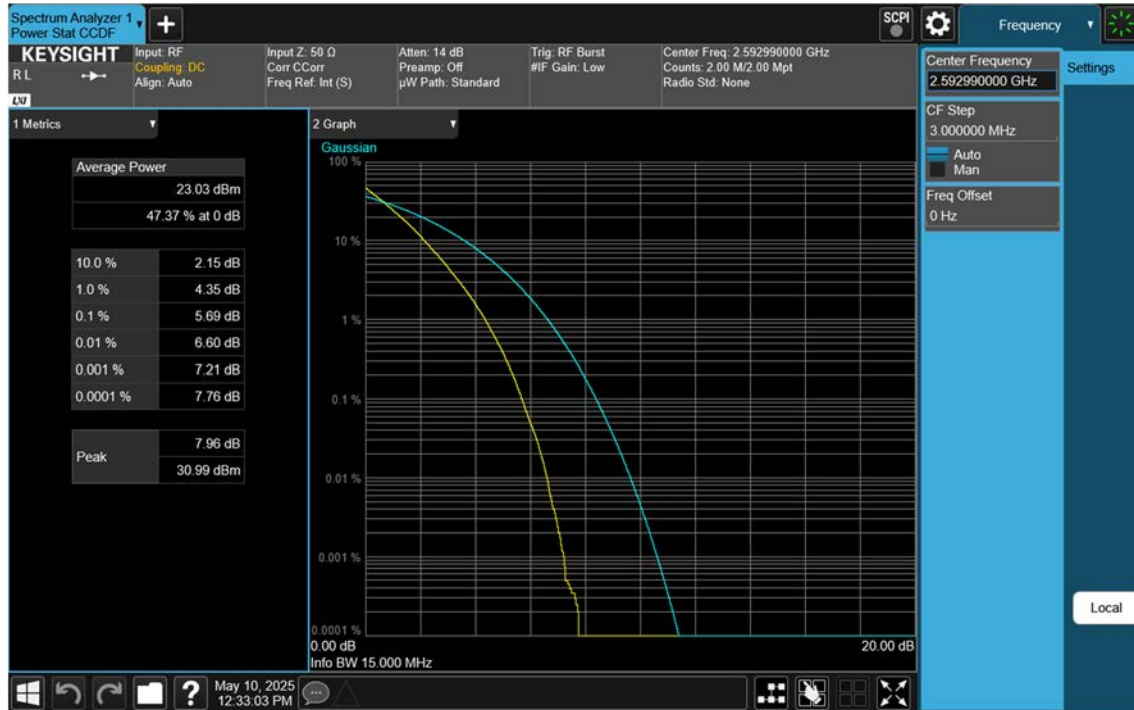
NR41_10 M_PAR_Mid_256QAM_FullRB



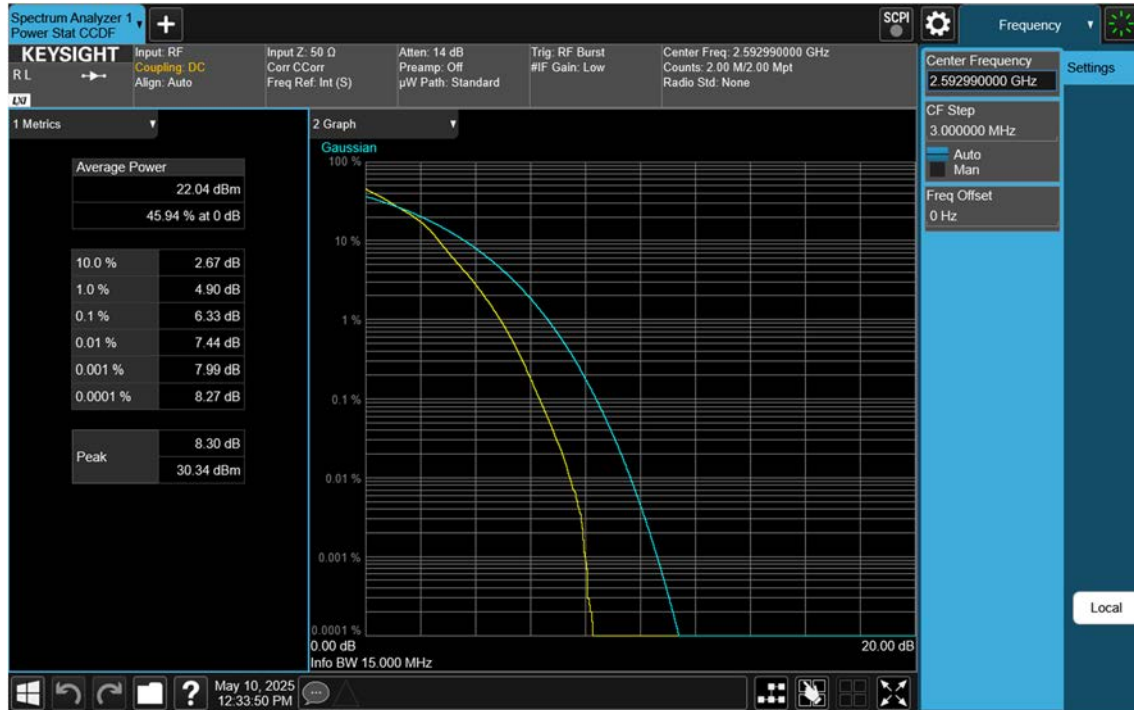
NR41_15 M_PAR_Mid_BPSK_FullRB



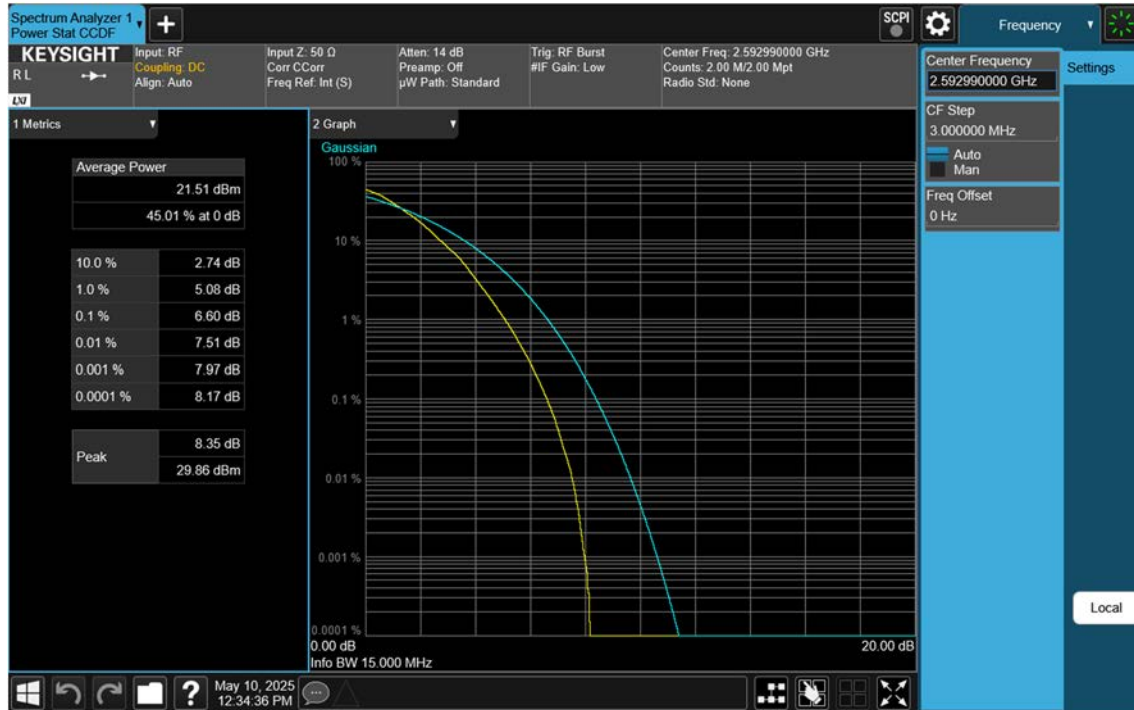
NR41_15 M_PAR_Mid_QPSK_FullRB



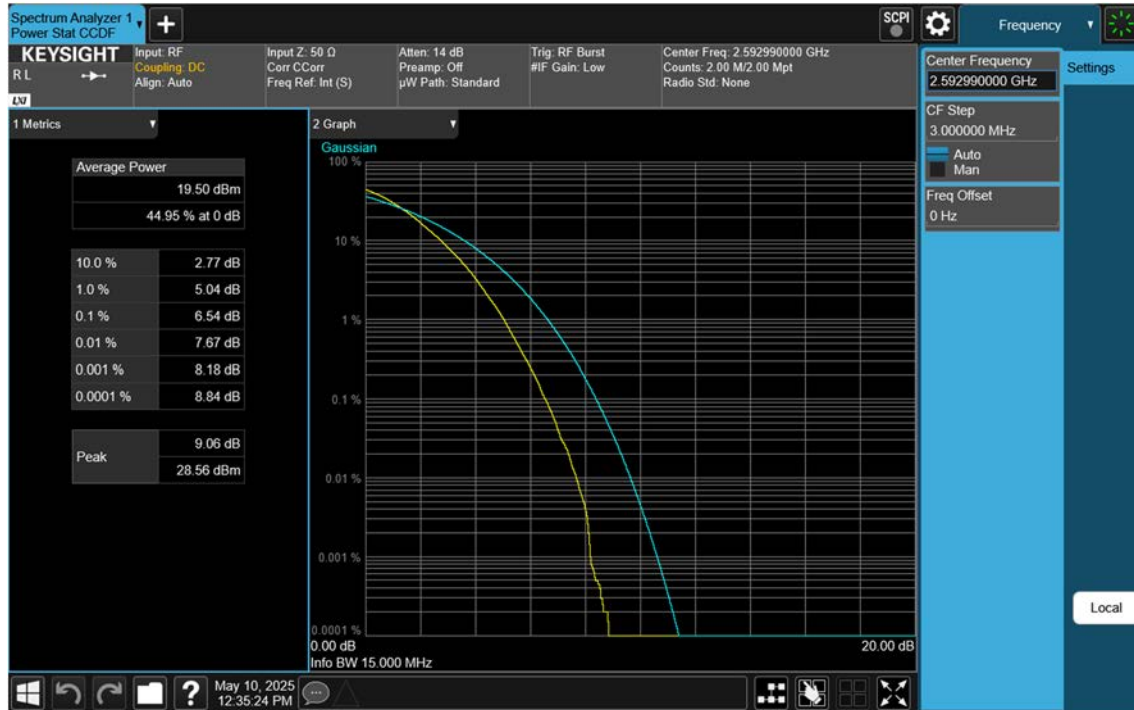
NR41_15 M_PAR_Mid_16QAM_FullRB



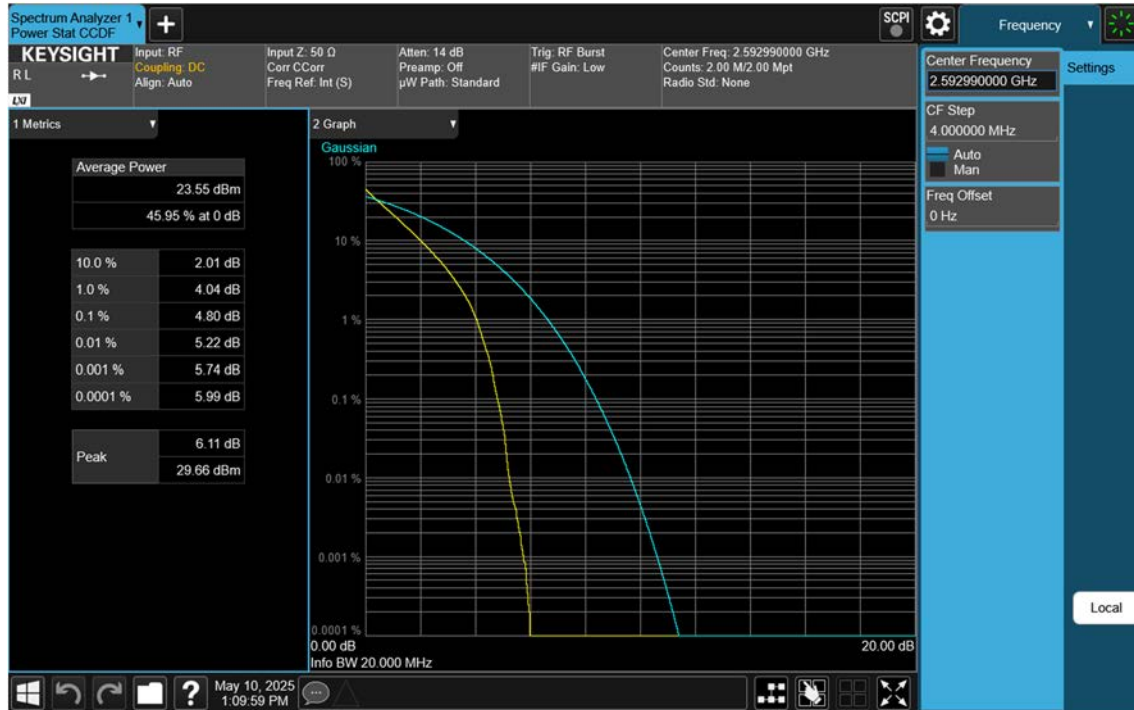
NR41_15 M_PAR_Mid_64QAM_FullRB



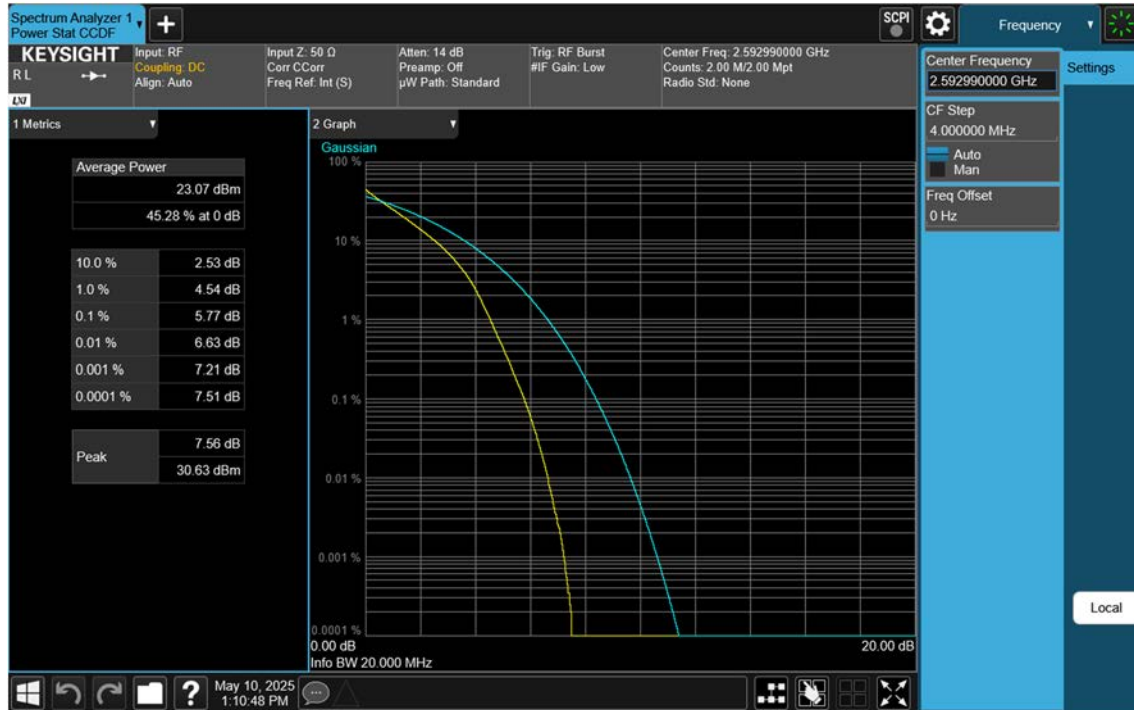
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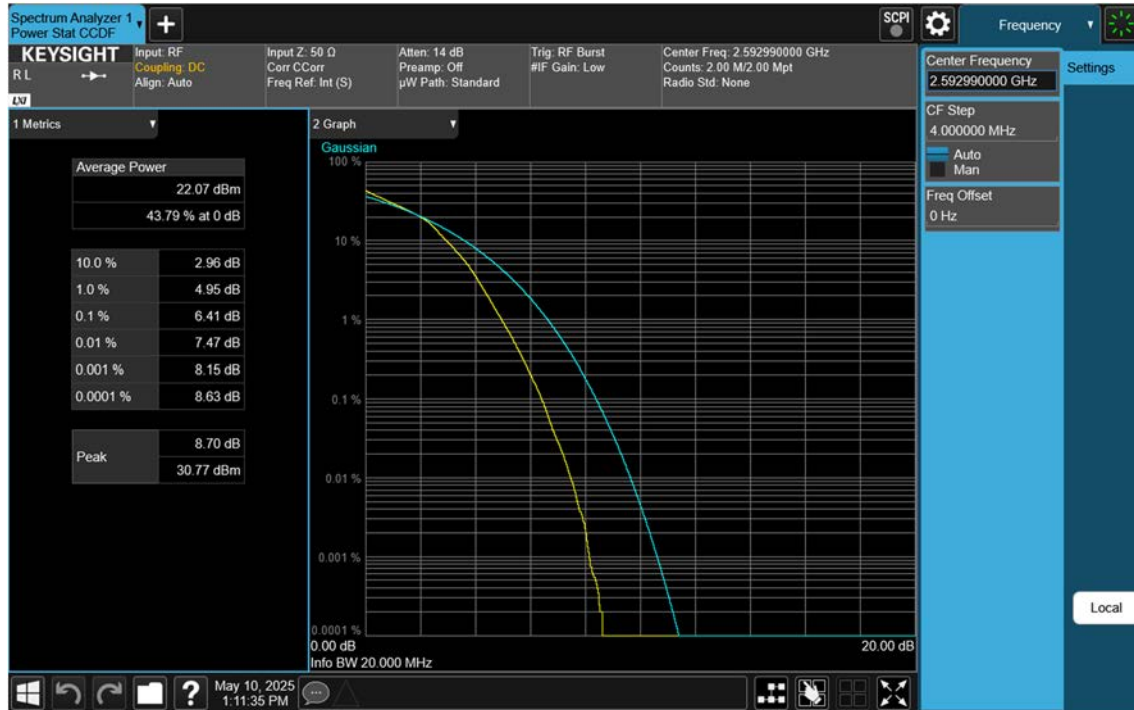
NR41_20 M_PAR_Mid_BPSK_FullRB



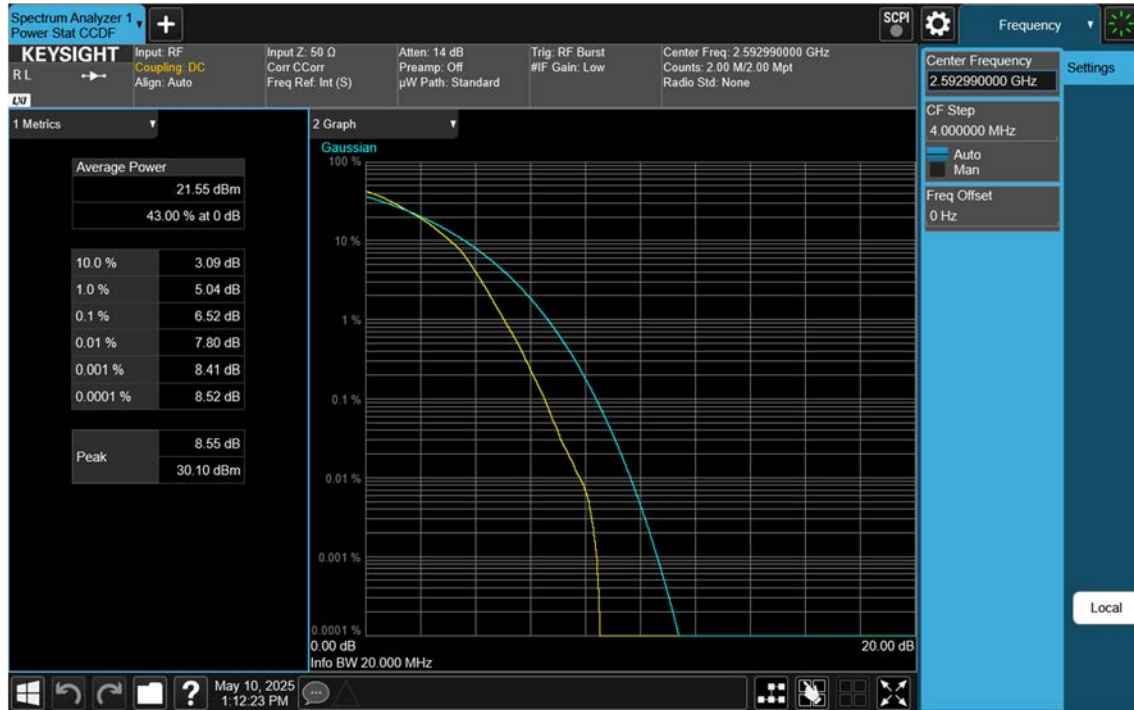
NR41_20 M_PAR_Mid_QPSK_FullRB



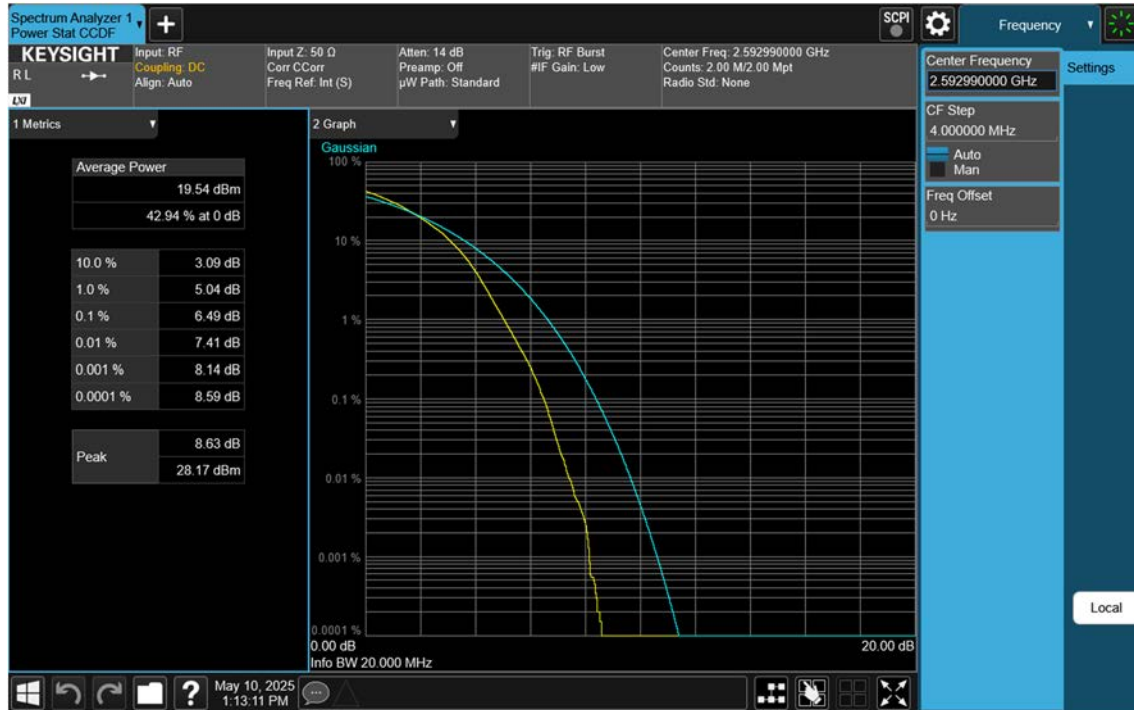
NR41_20 M_PAR_Mid_16QAM_FullRB



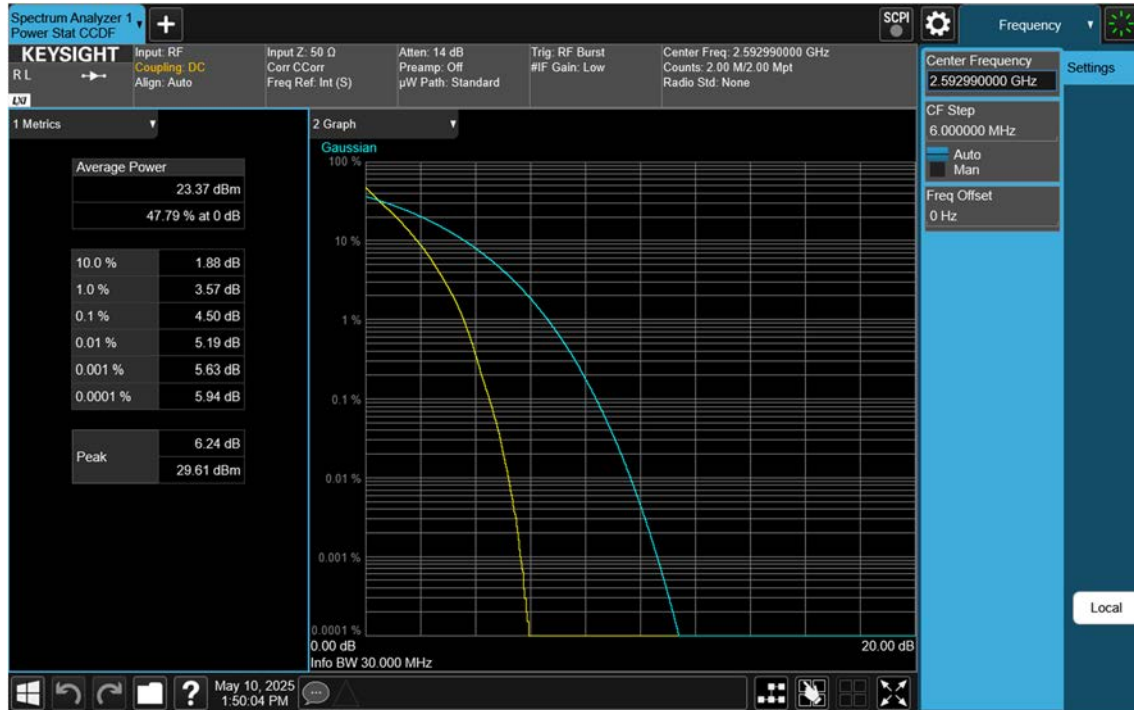
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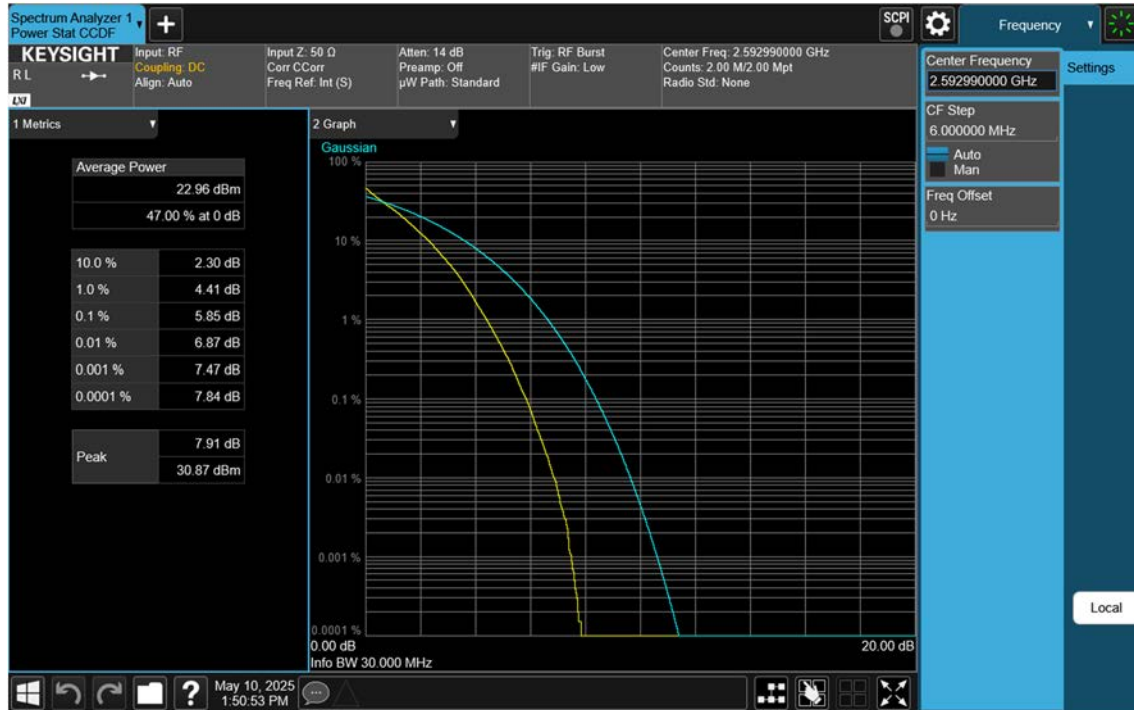
NR41_20 M_PAR_Mid_256QAM_FullRB



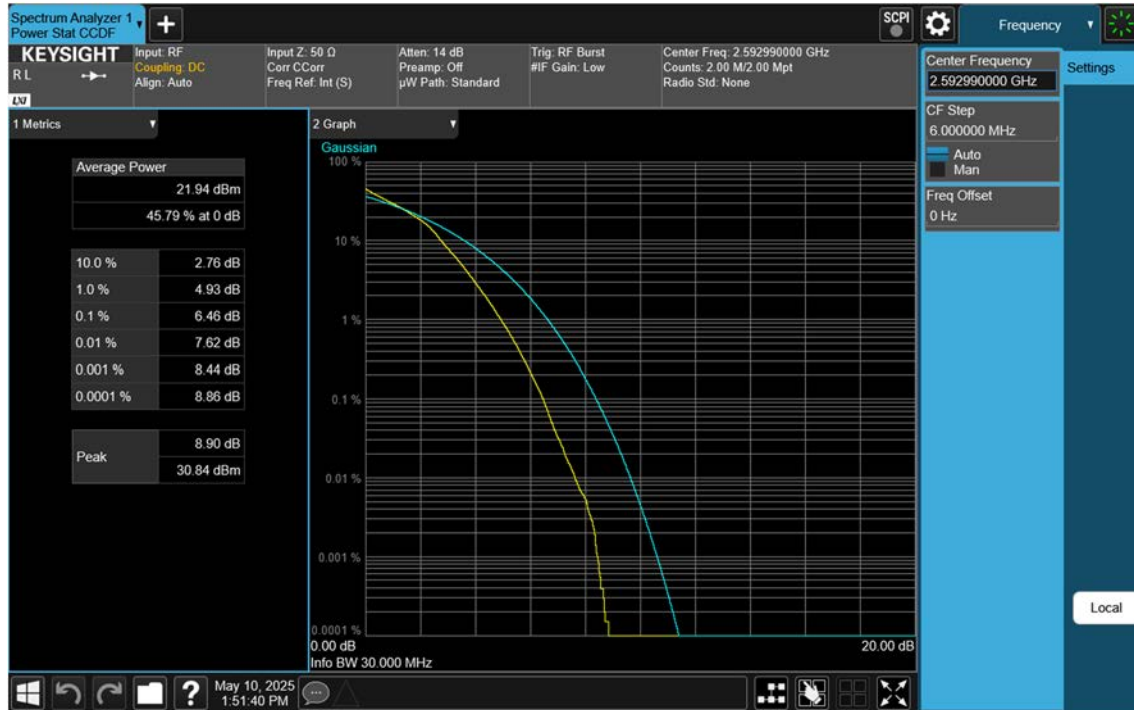
NR41_30 M_PAR_Mid_BPSK_FullRB



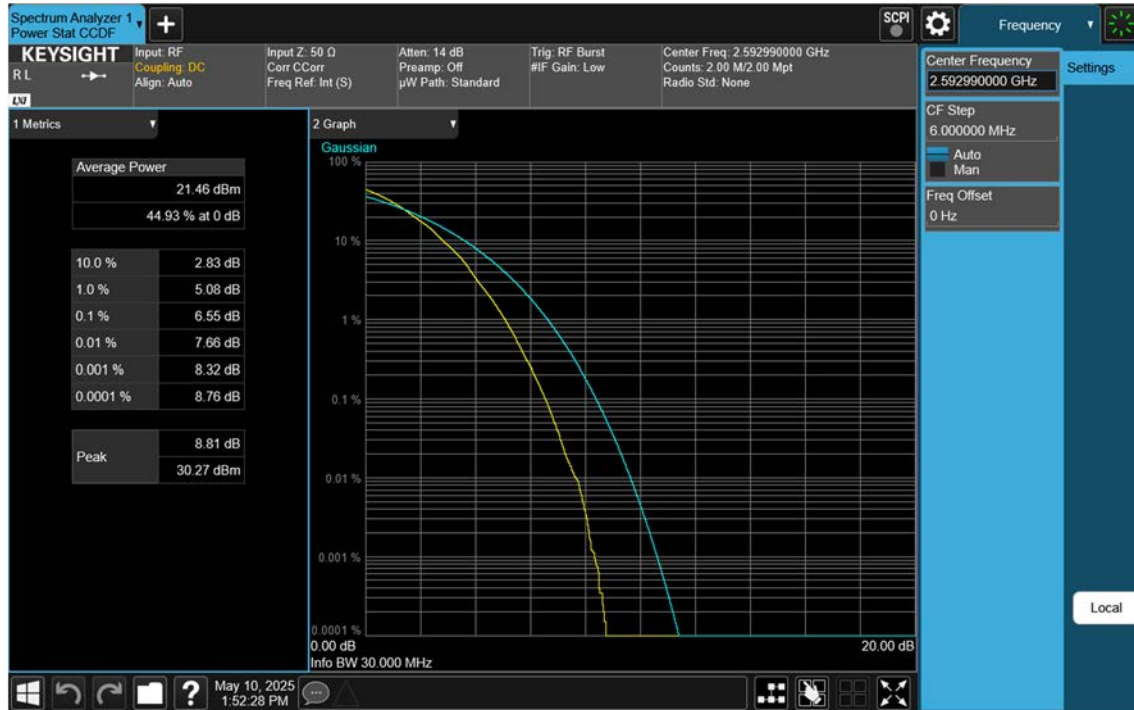
NR41_30 M_PAR_Mid_QPSK_FullRB



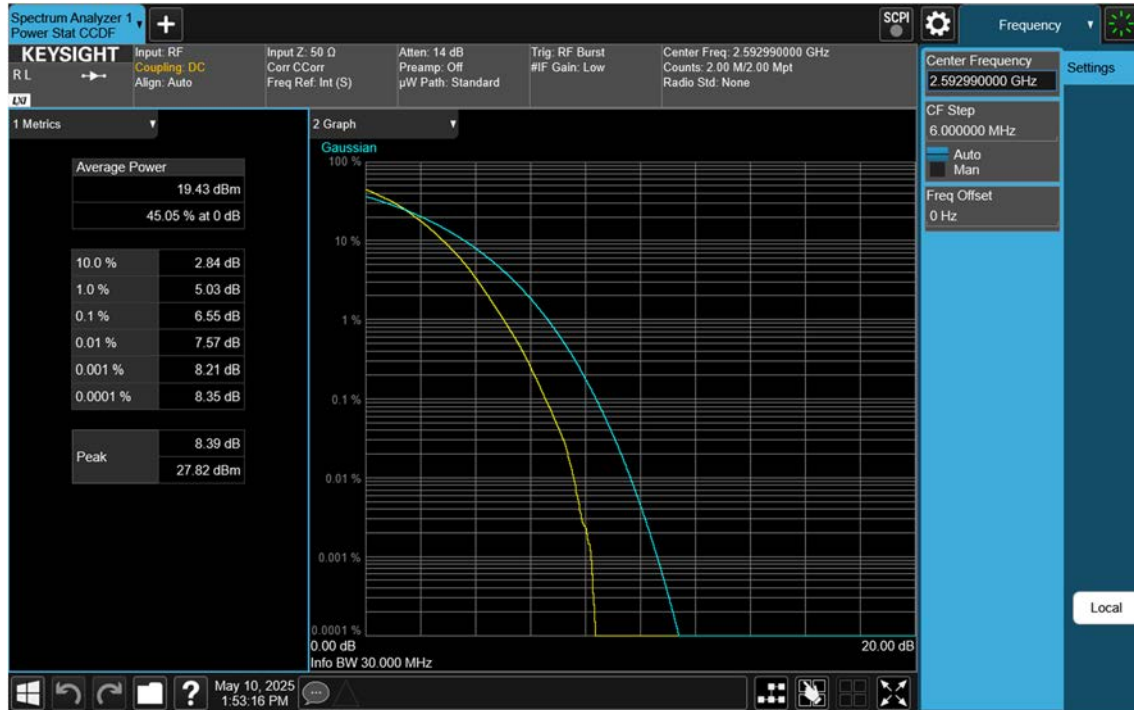
NR41_30 M_PAR_Mid_16QAM_FullRB



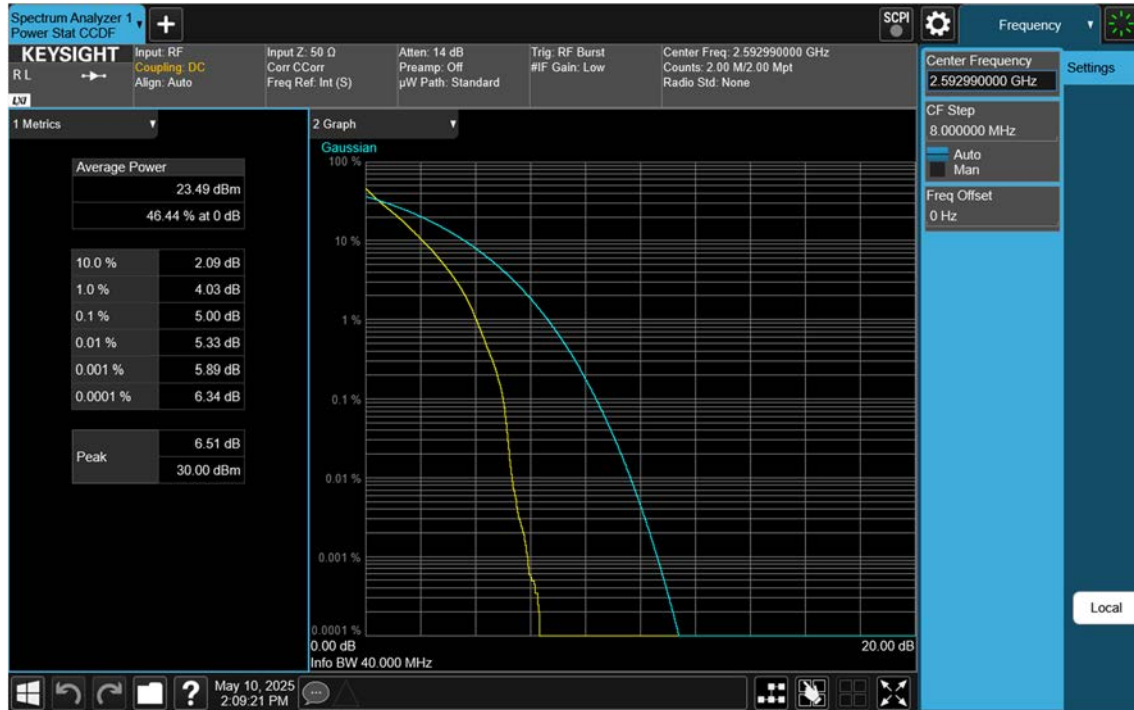
NR41_30 M_PAR_Mid_64QAM_FullRB



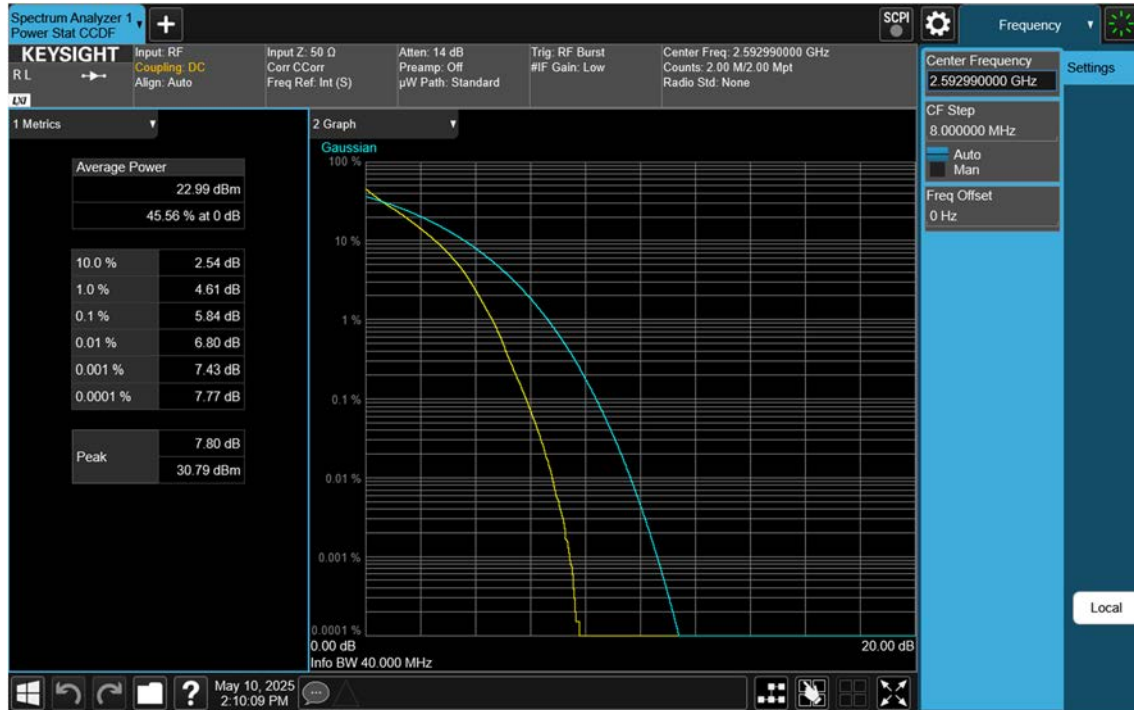
NR41_30 M_PAR_Mid_256QAM_FullRB



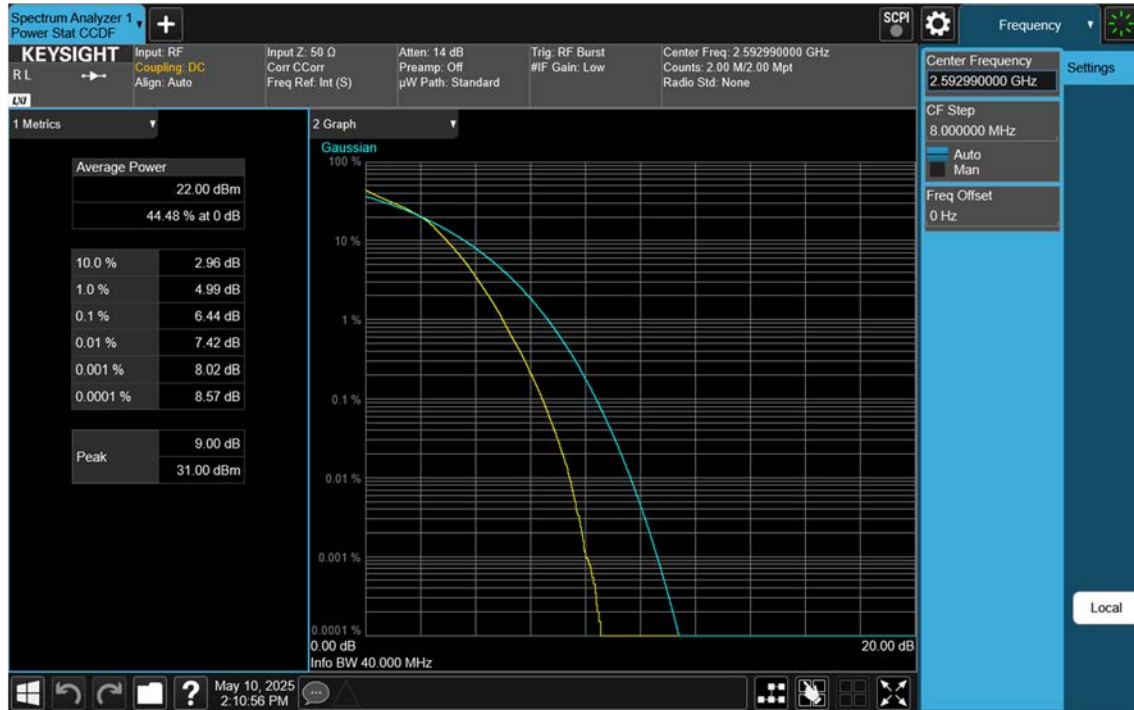
NR41_40 M_PAR_Mid_BPSK_FullRB



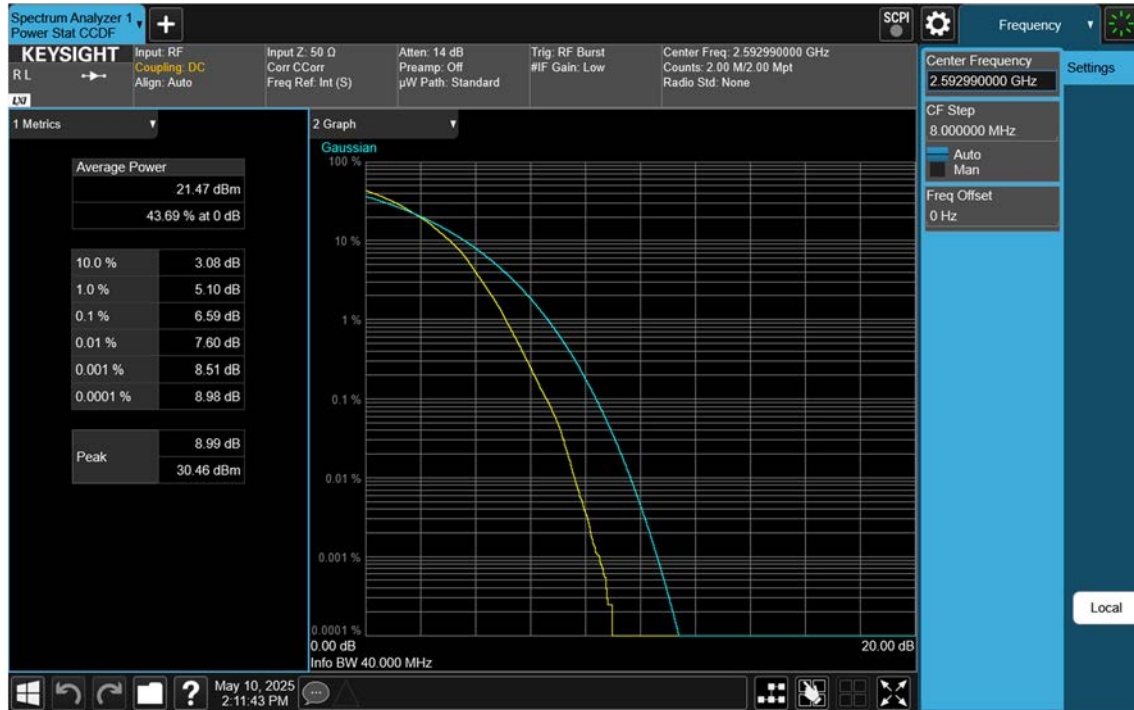
NR41_40 M_PAR_Mid_QPSK_FullRB



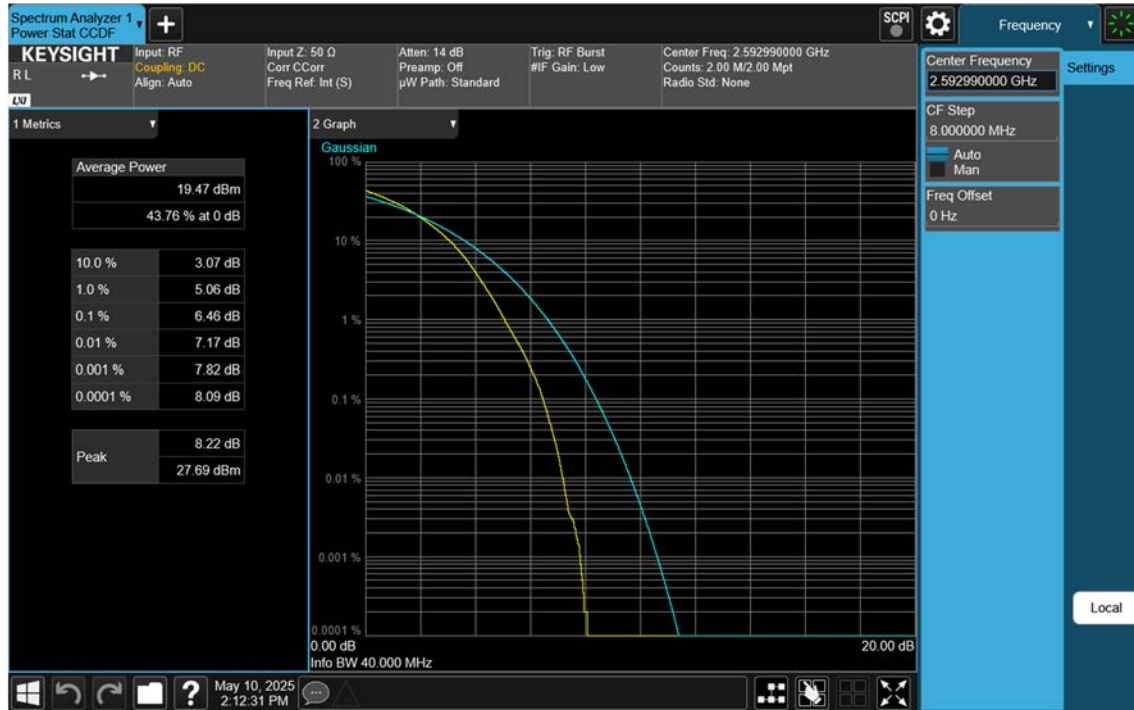
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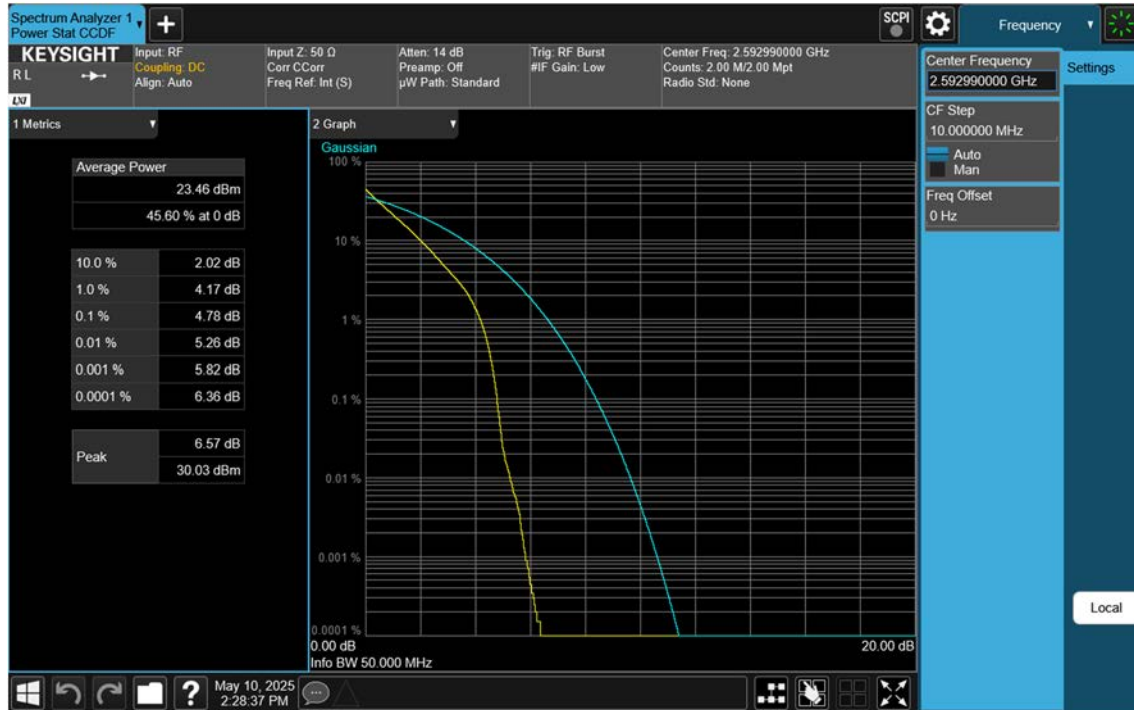
NR41_40 M_PAR_Mid_64QAM_FullRB



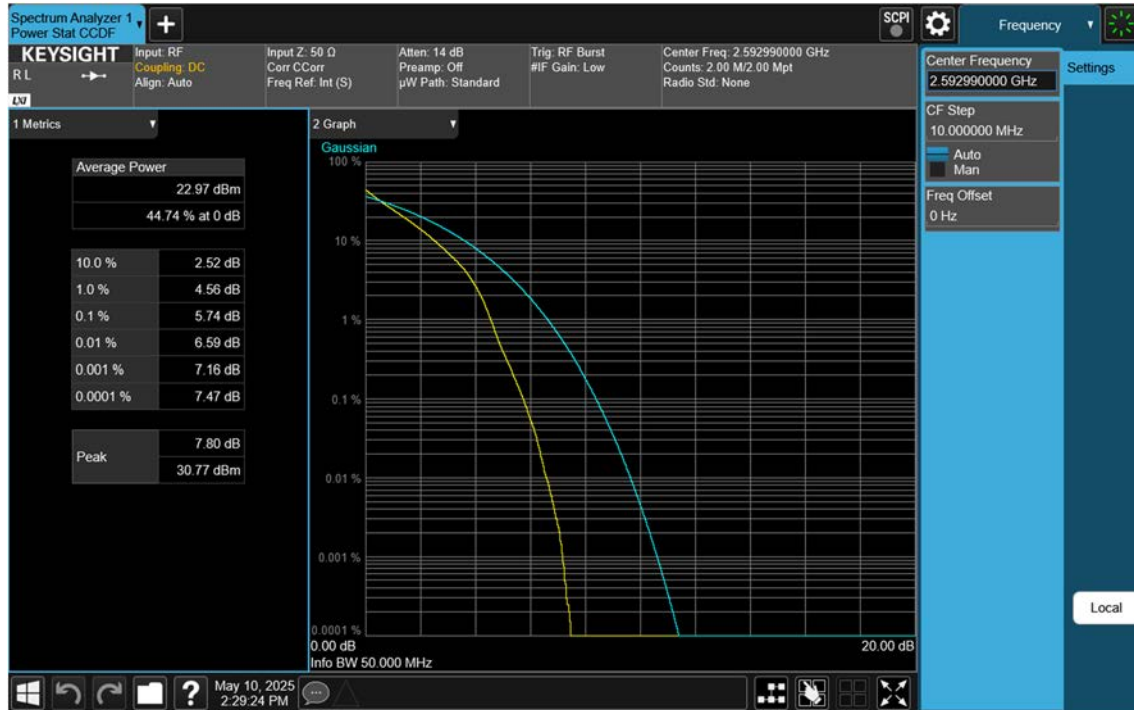
NR41_40 M_PAR_Mid_256QAM_FullRB



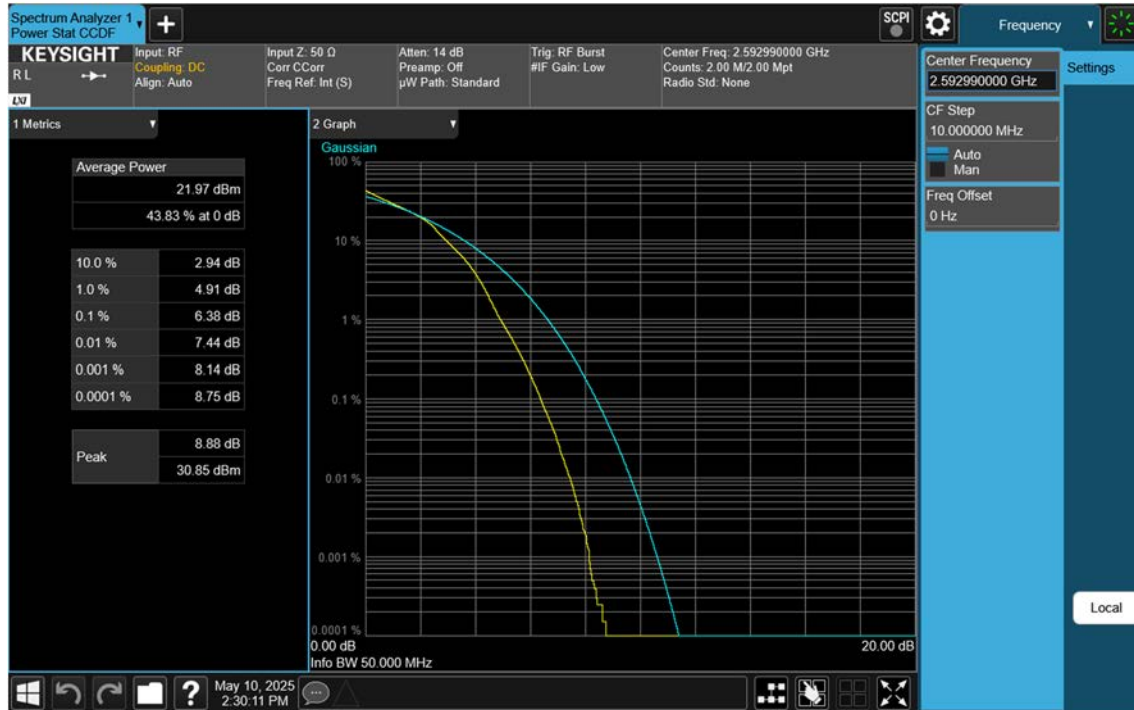
NR41_50 M_PAR_Mid_BPSK_FullRB



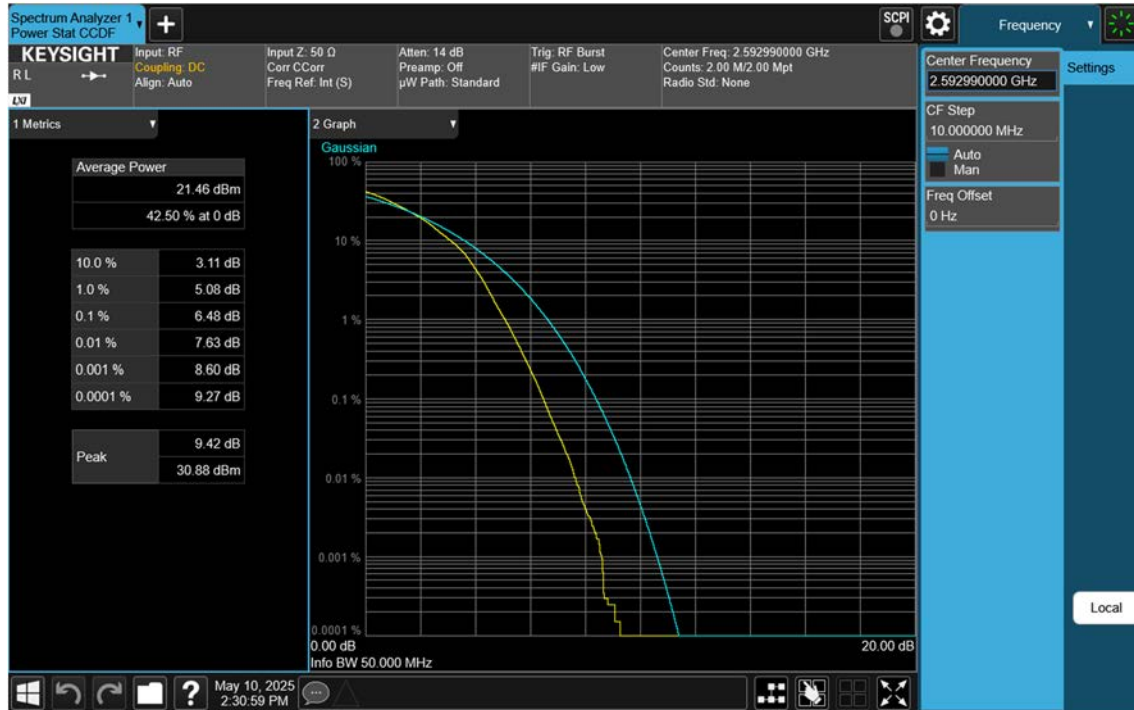
NR41_50 M_PAR_Mid_QPSK_FullRB



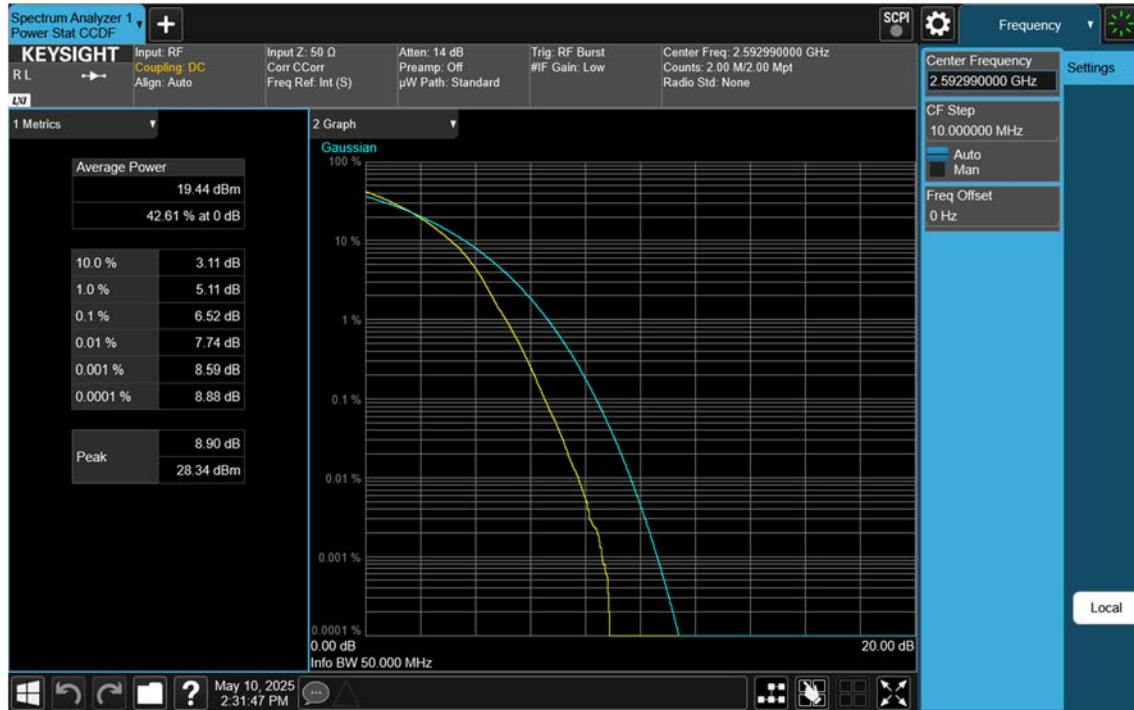
NR41_50 M_PAR_Mid_16QAM_FullRB



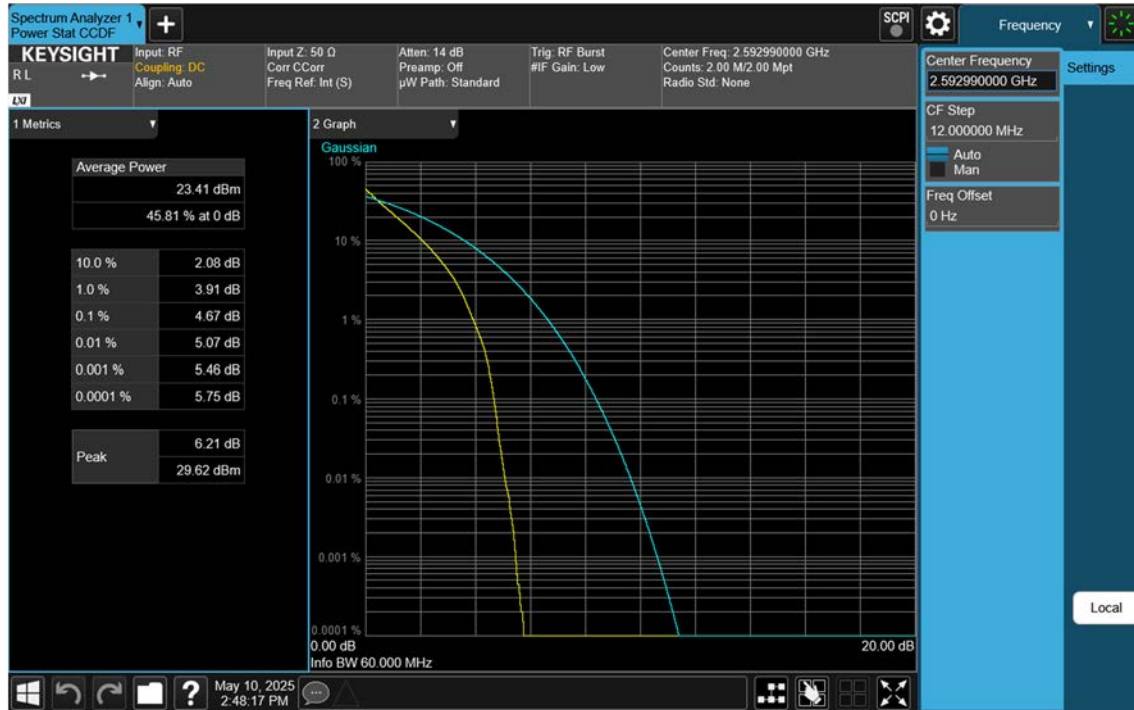
NR41_50 M_PAR_Mid_64QAM_FullRB



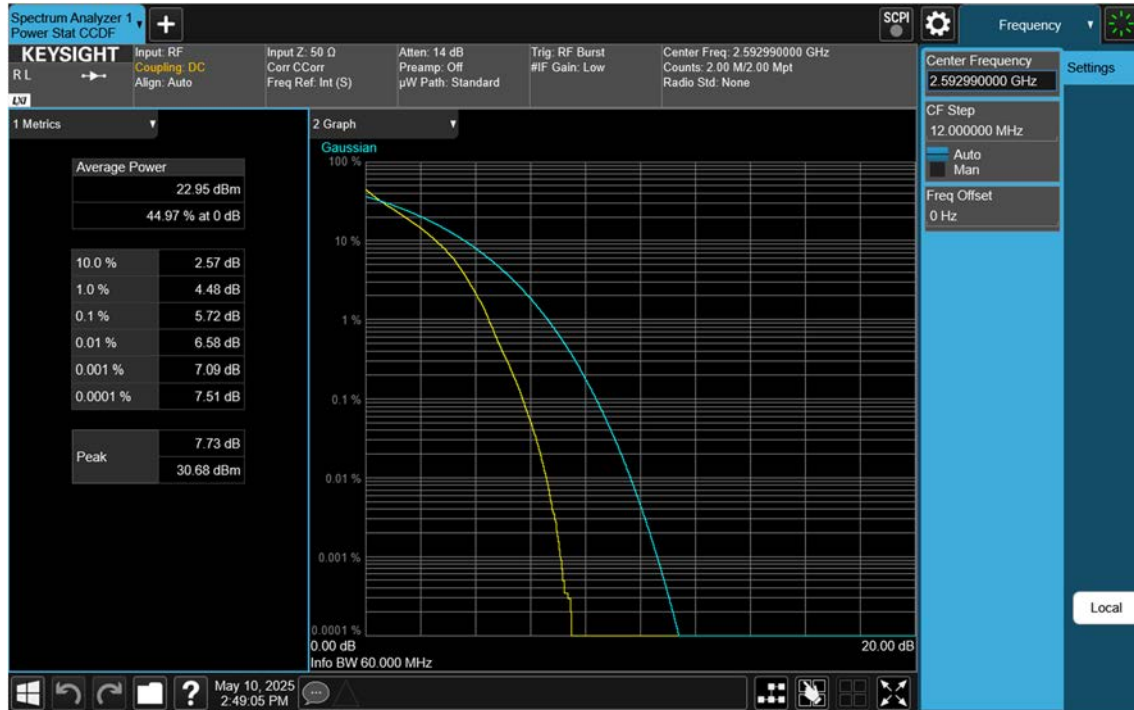
NR41_50 M_PAR_Mid_256QAM_FullRB



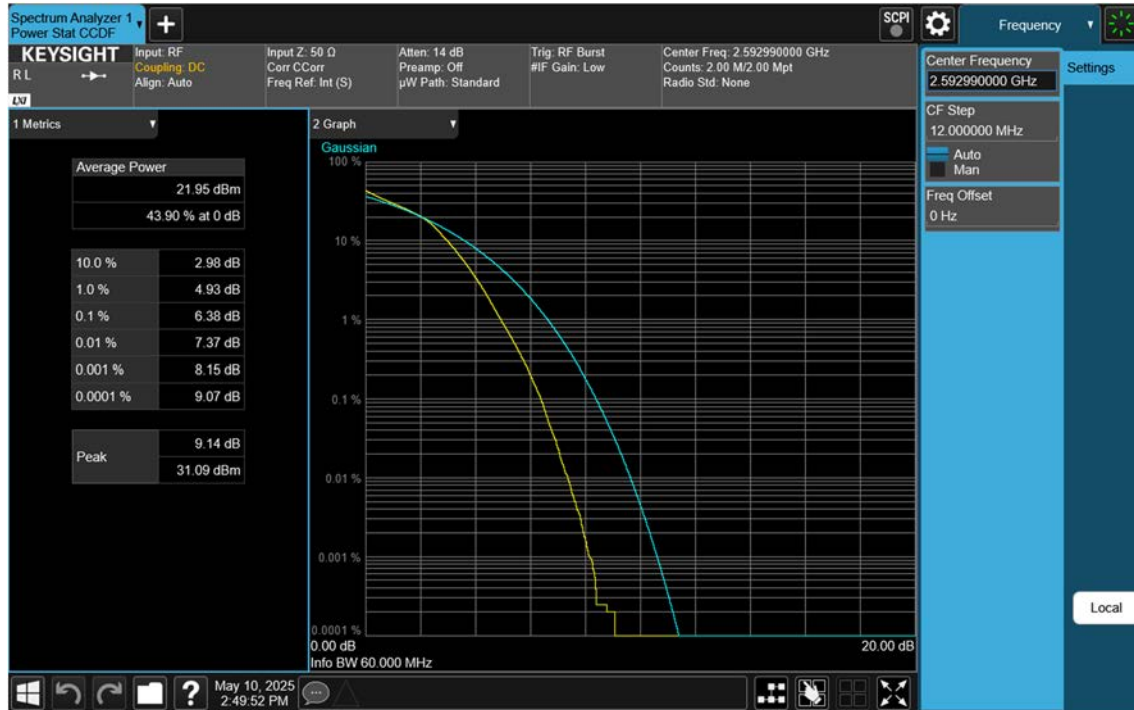
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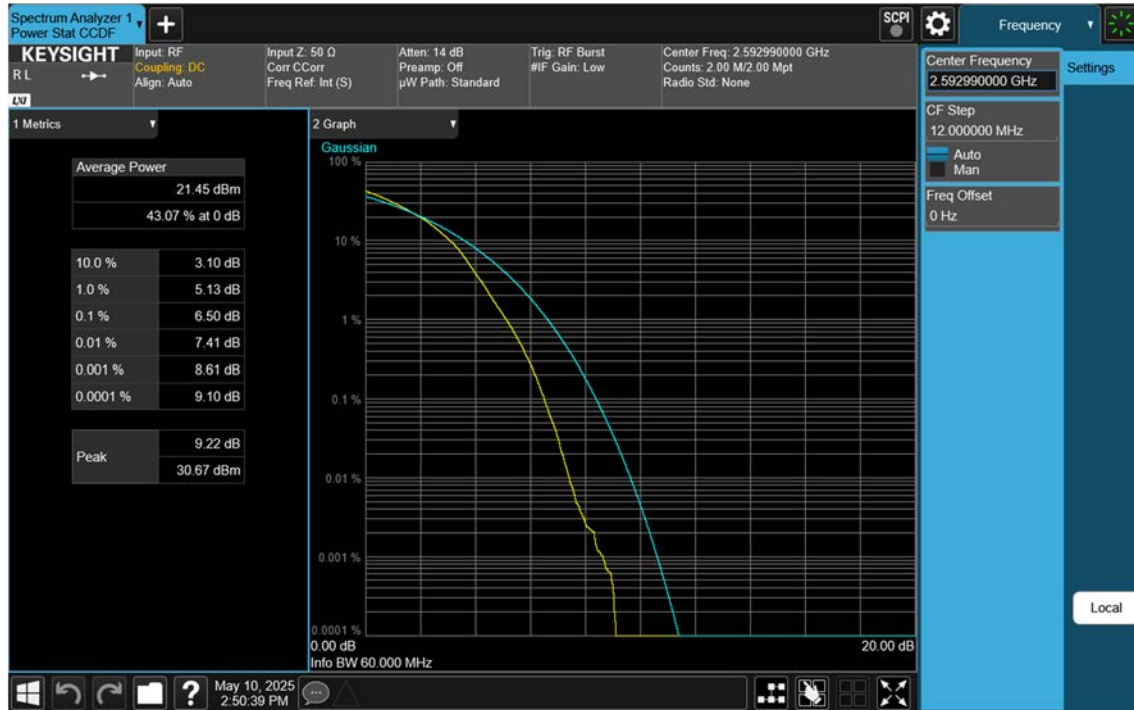
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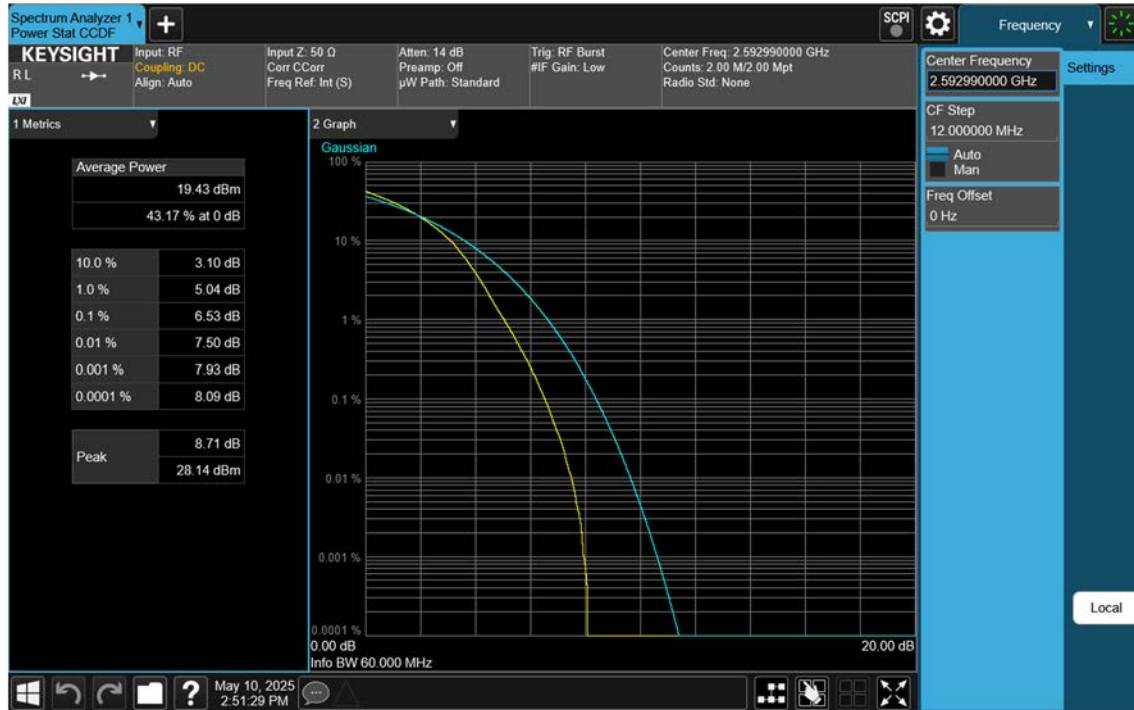
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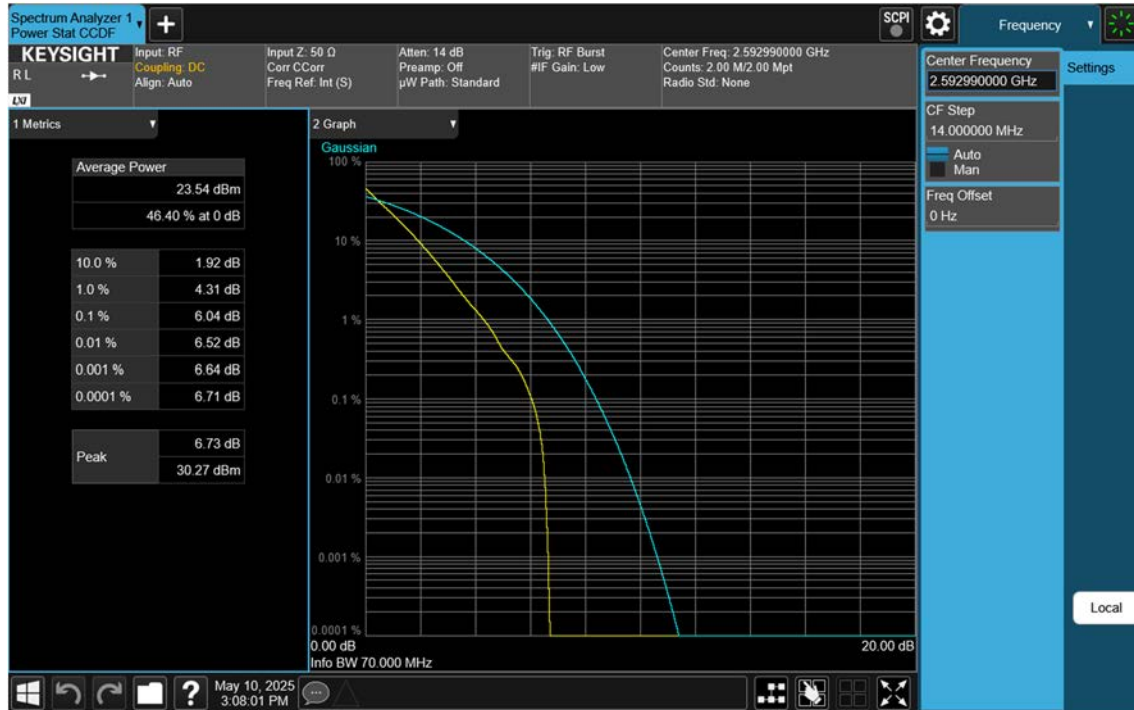
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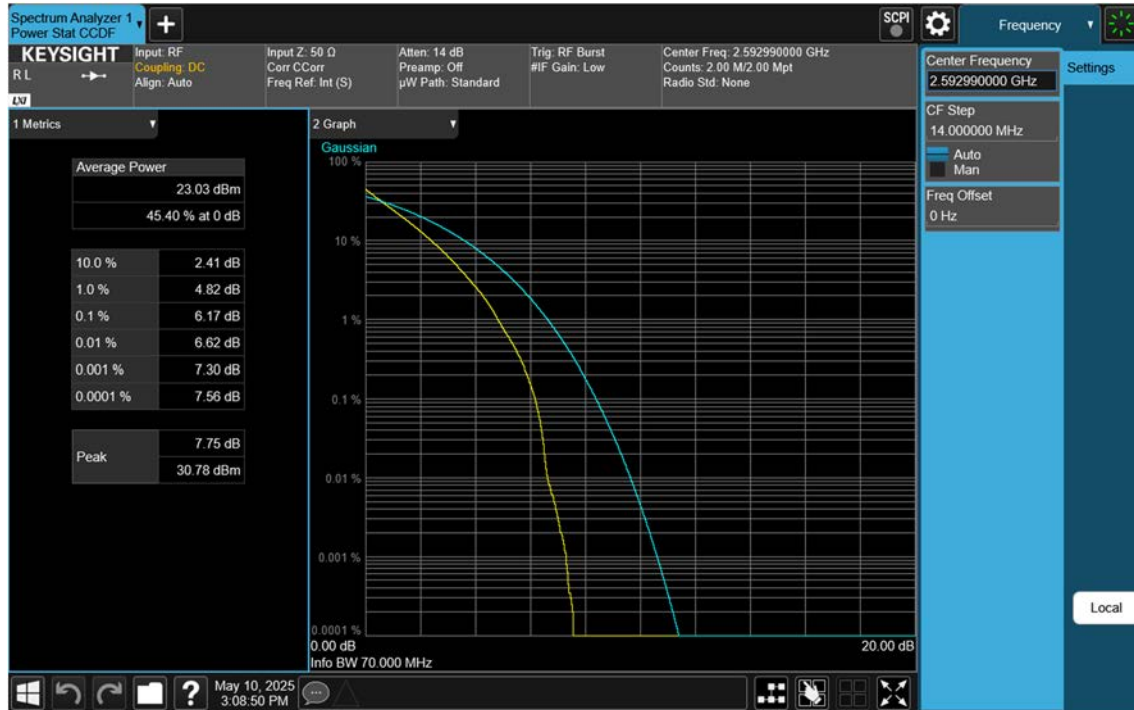
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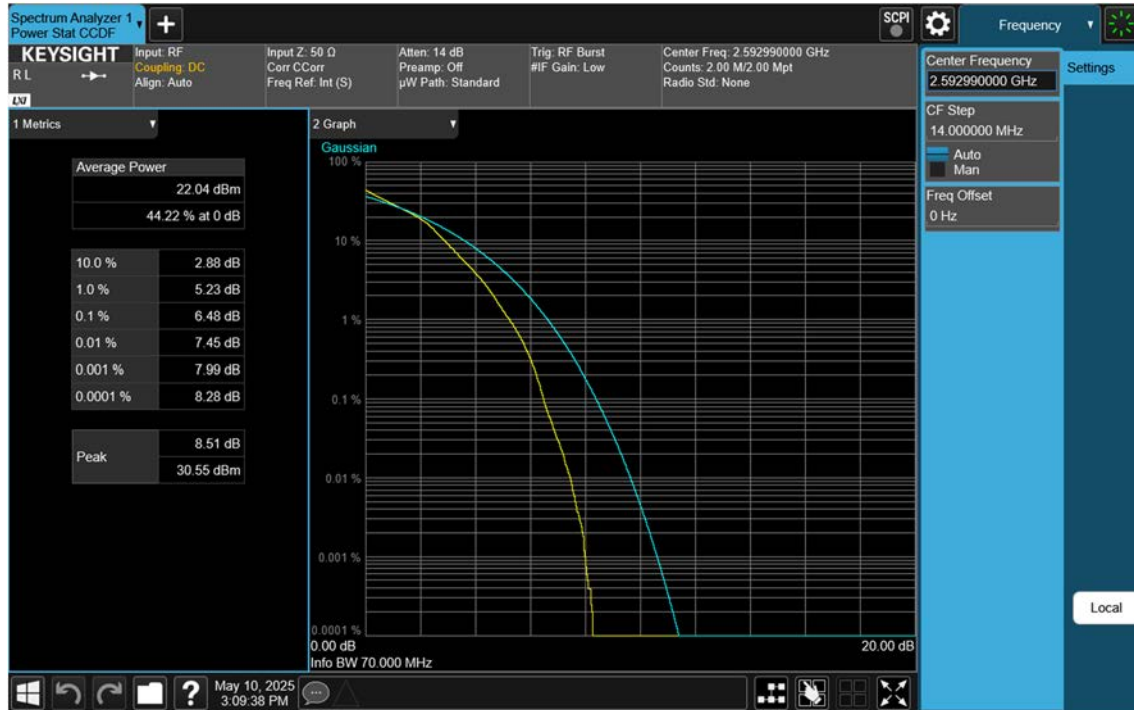
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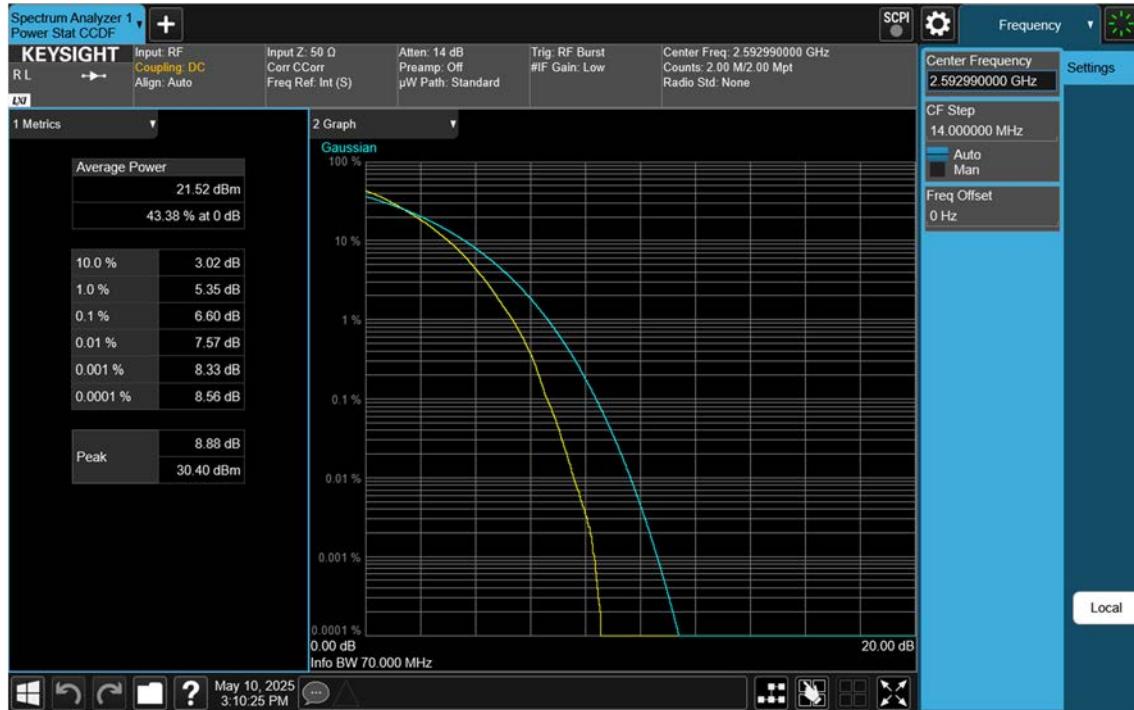
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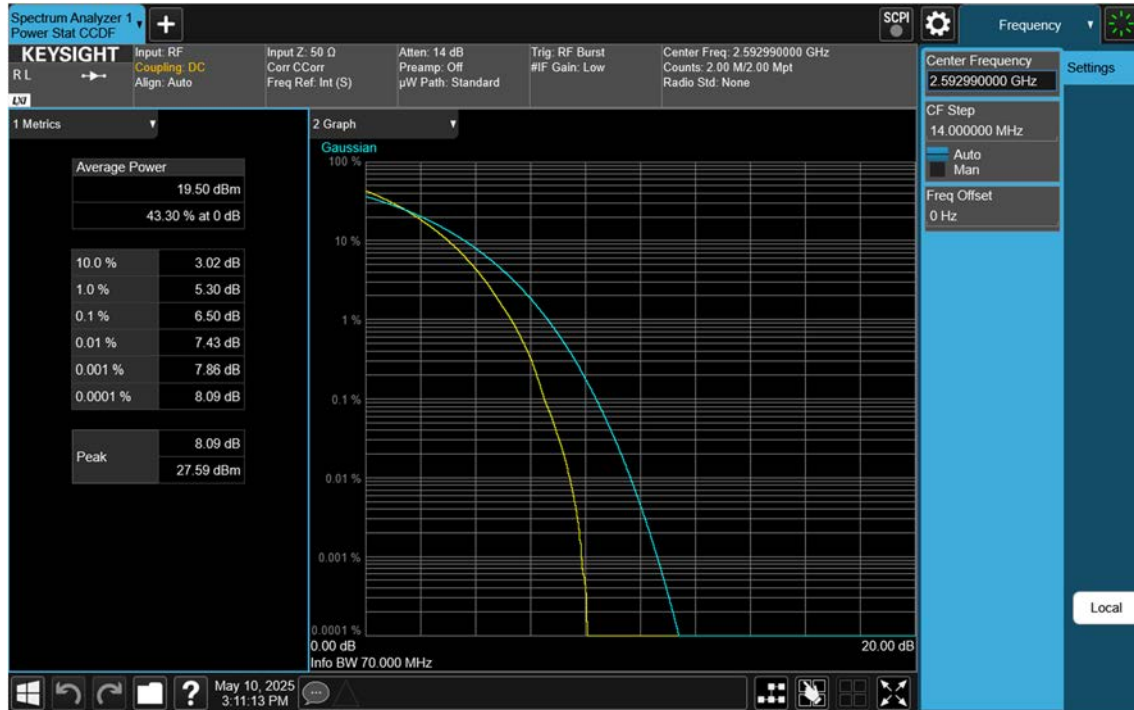
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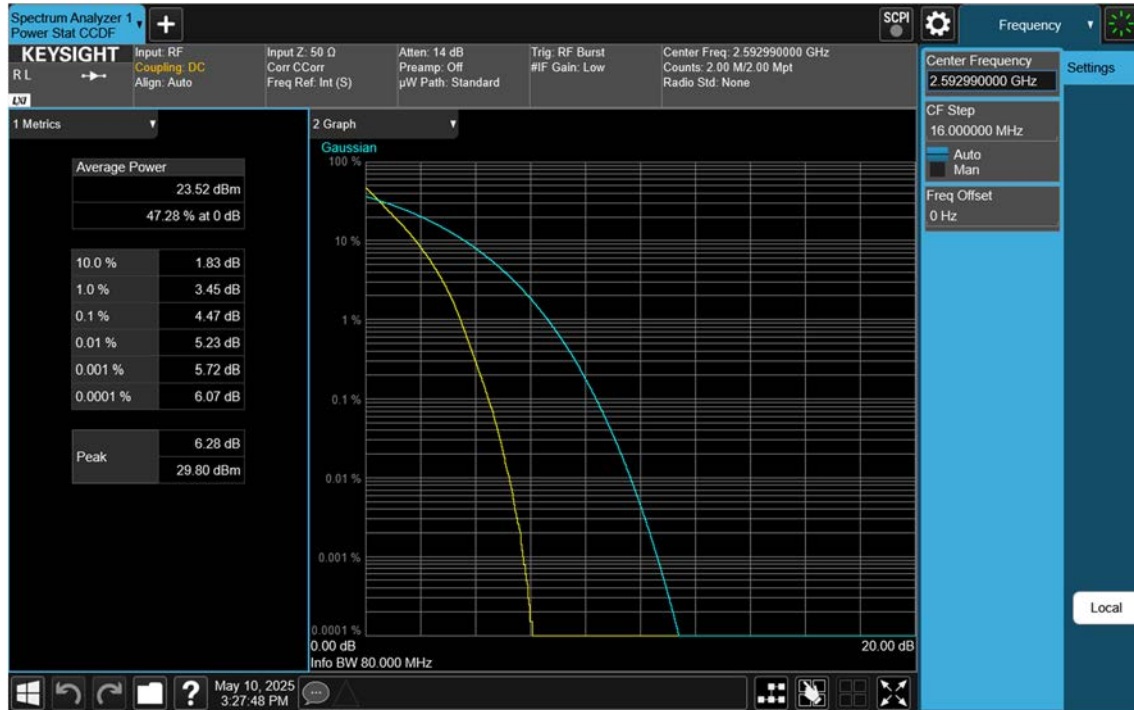
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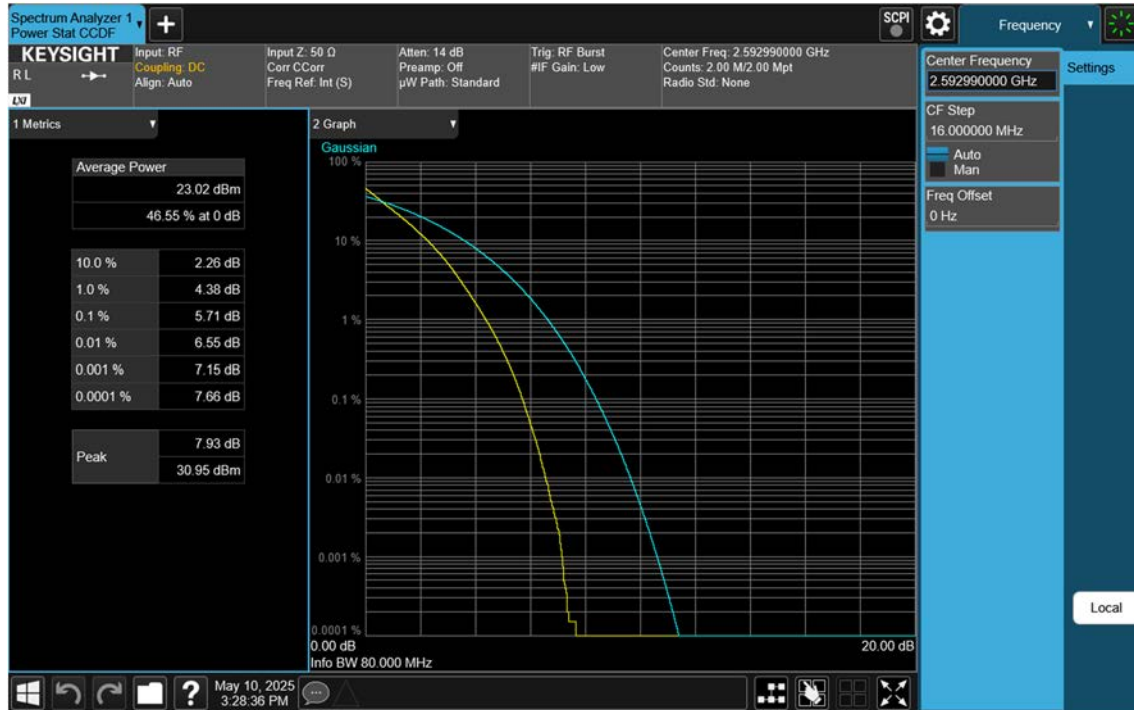
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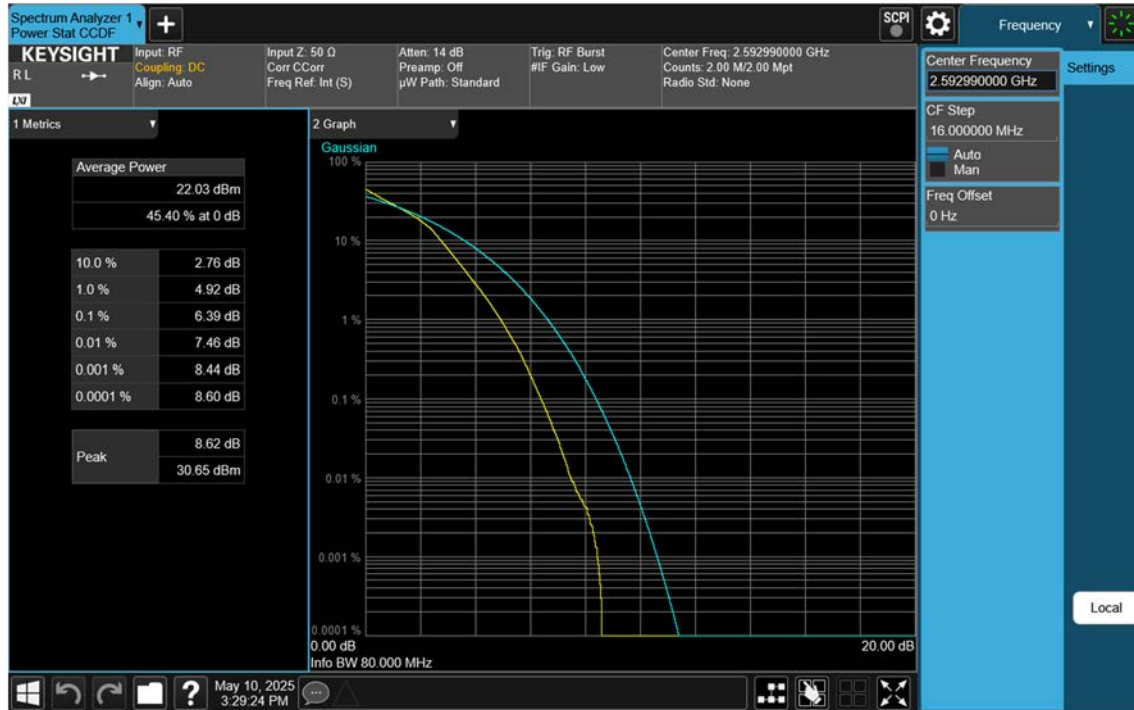
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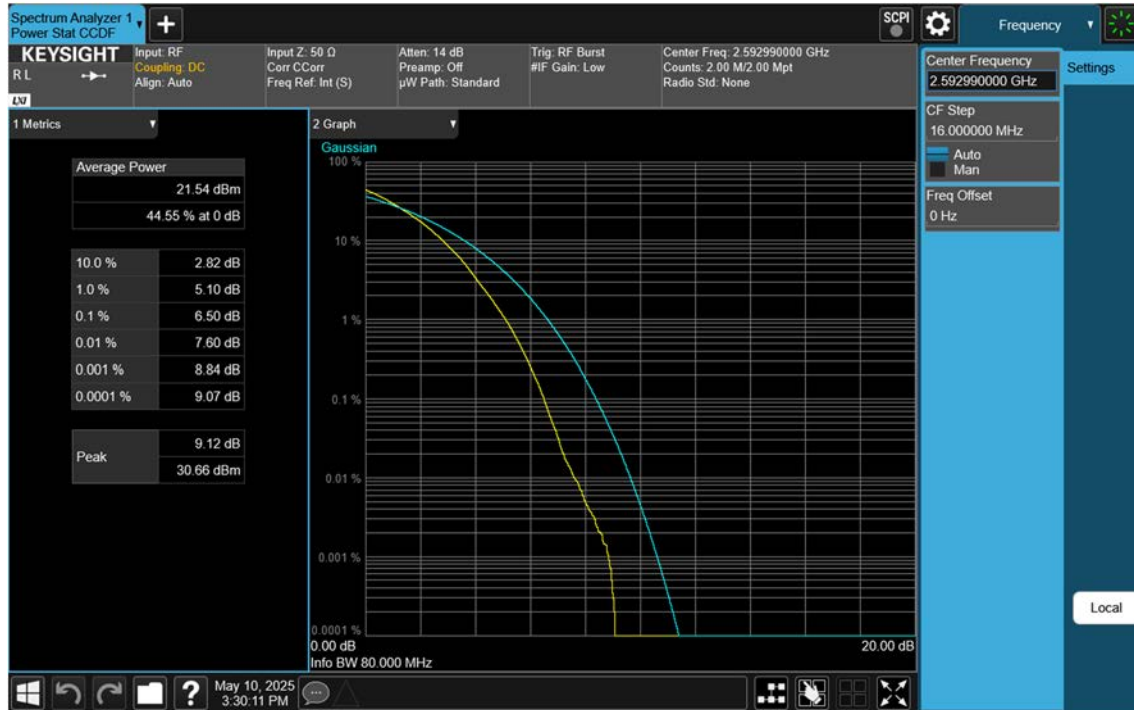
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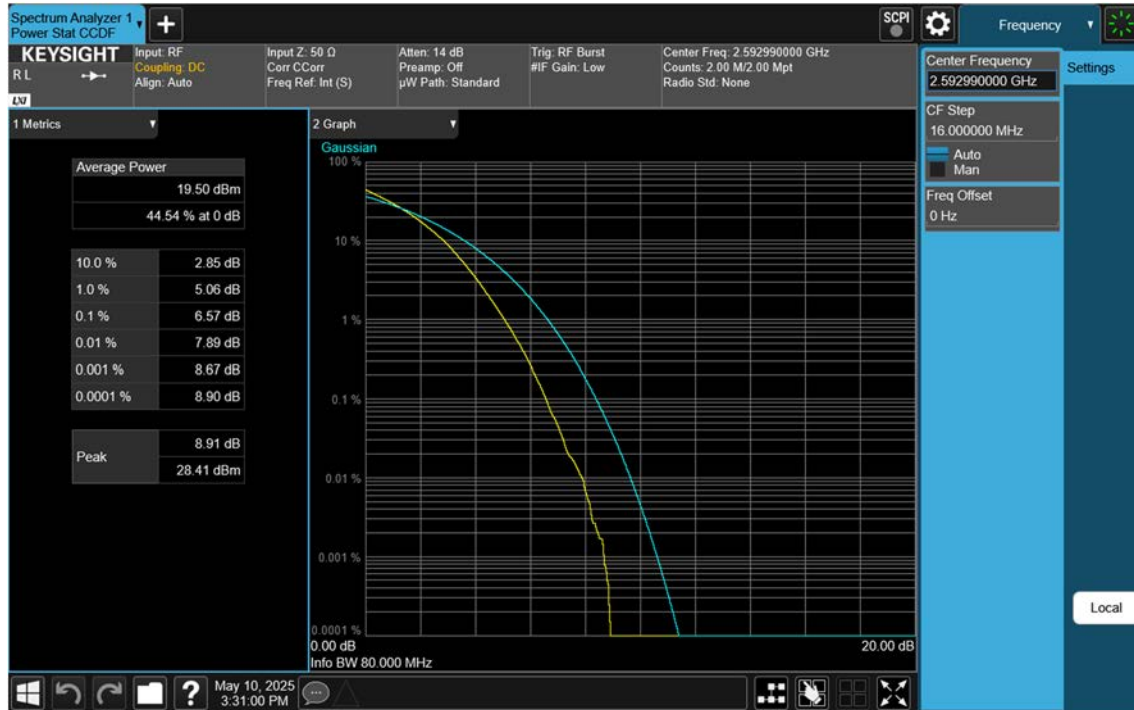
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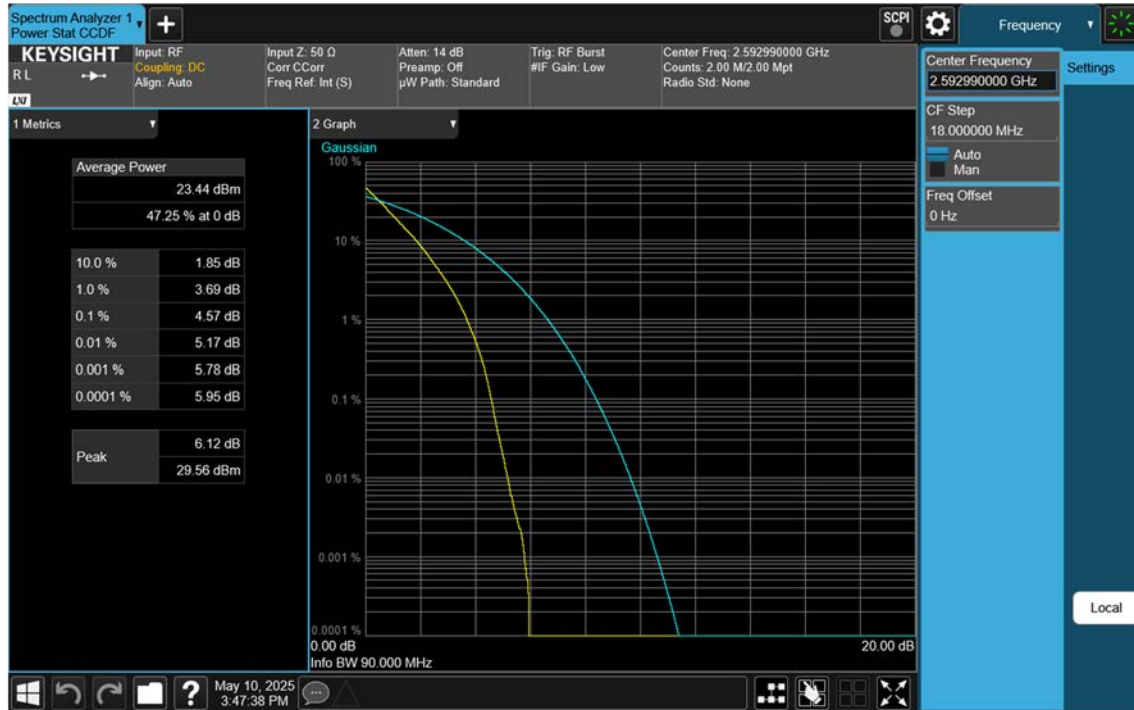
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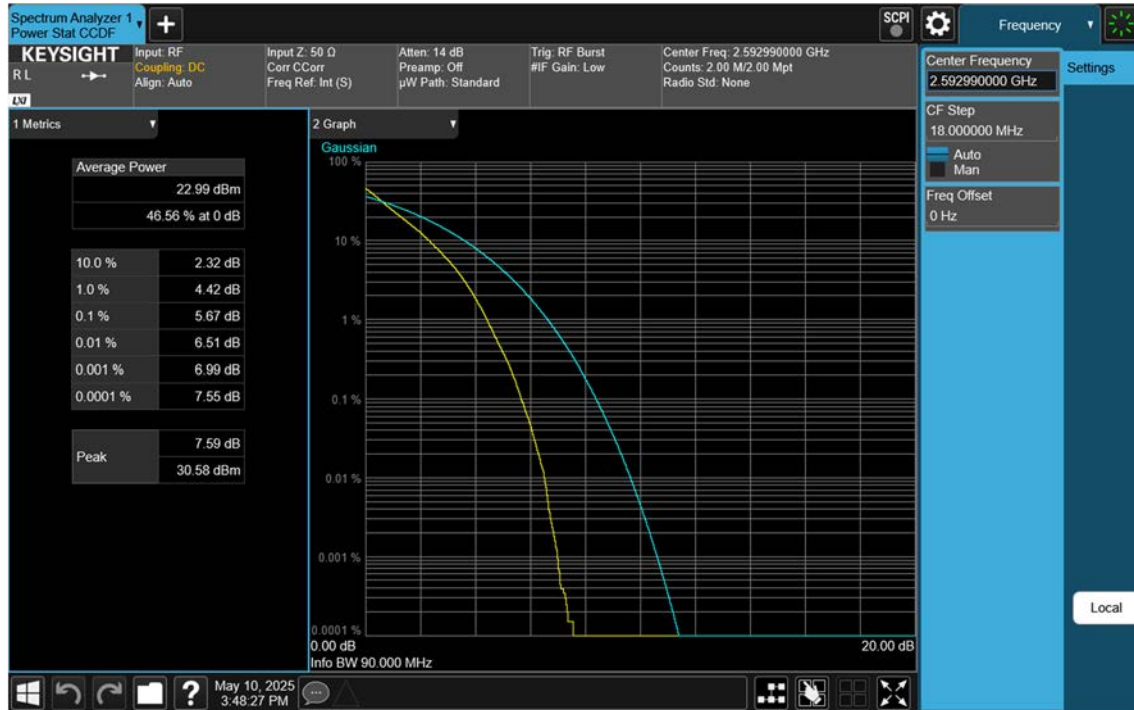
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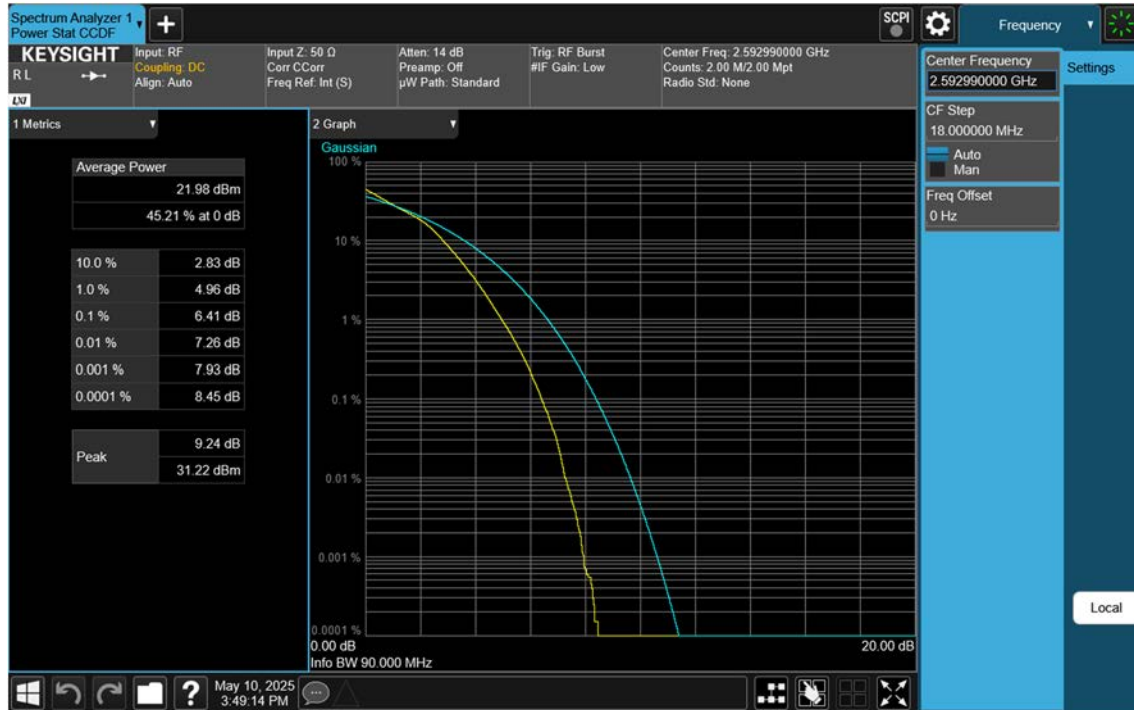
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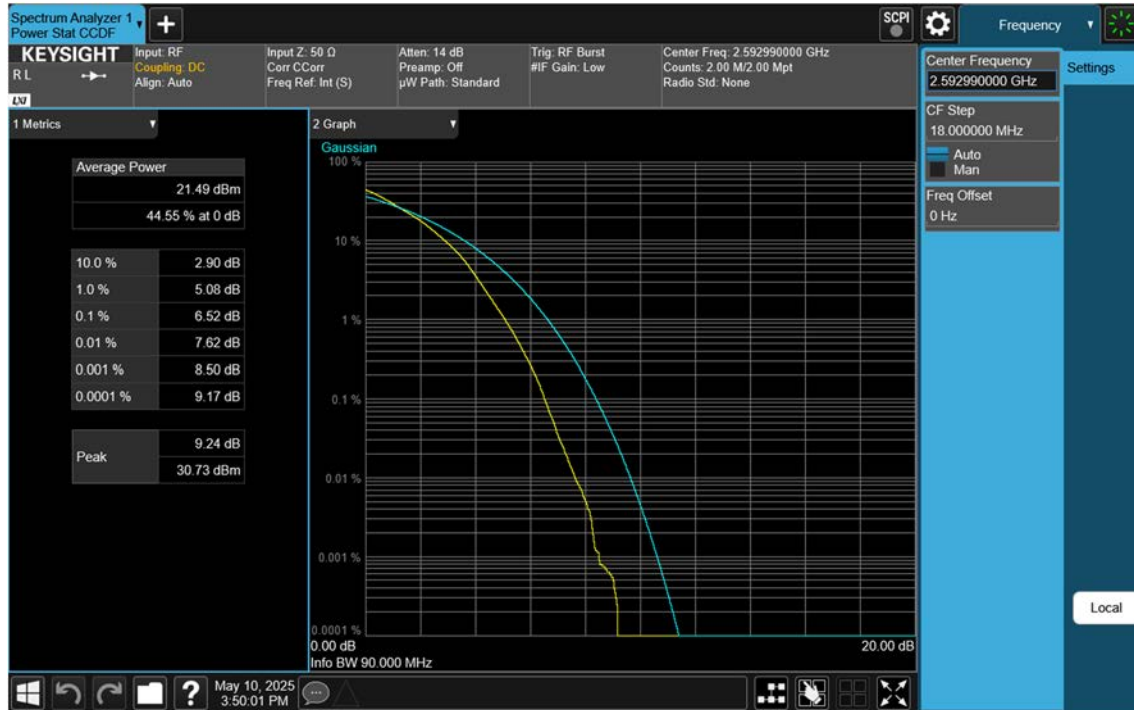
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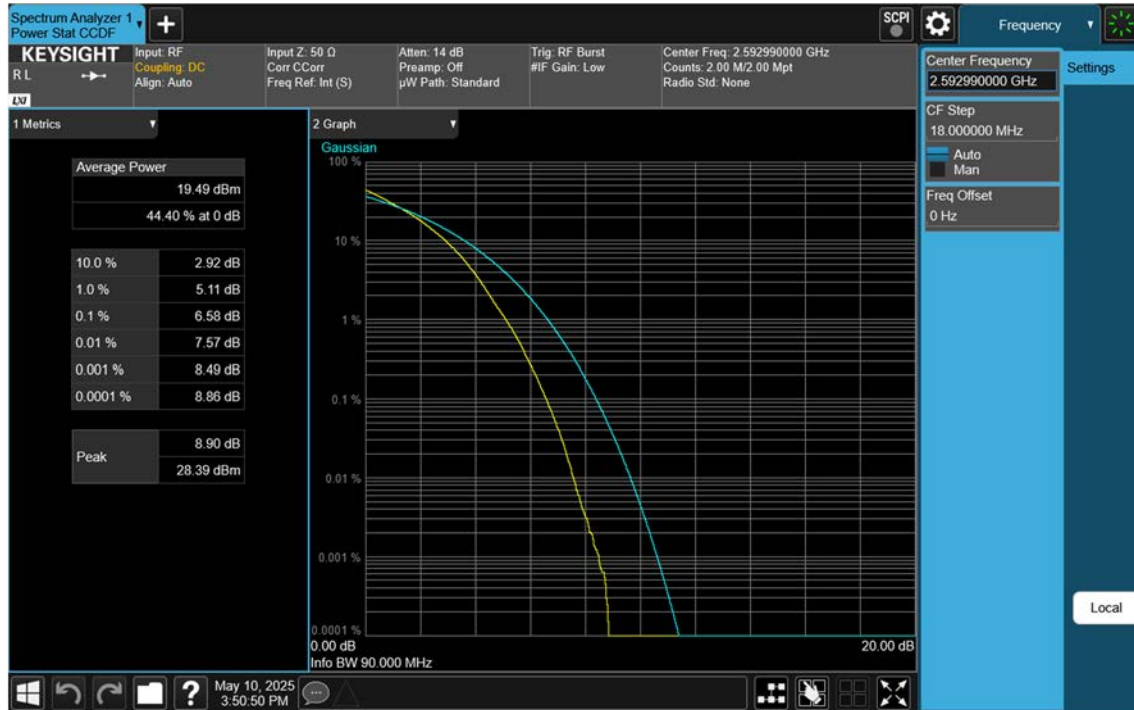
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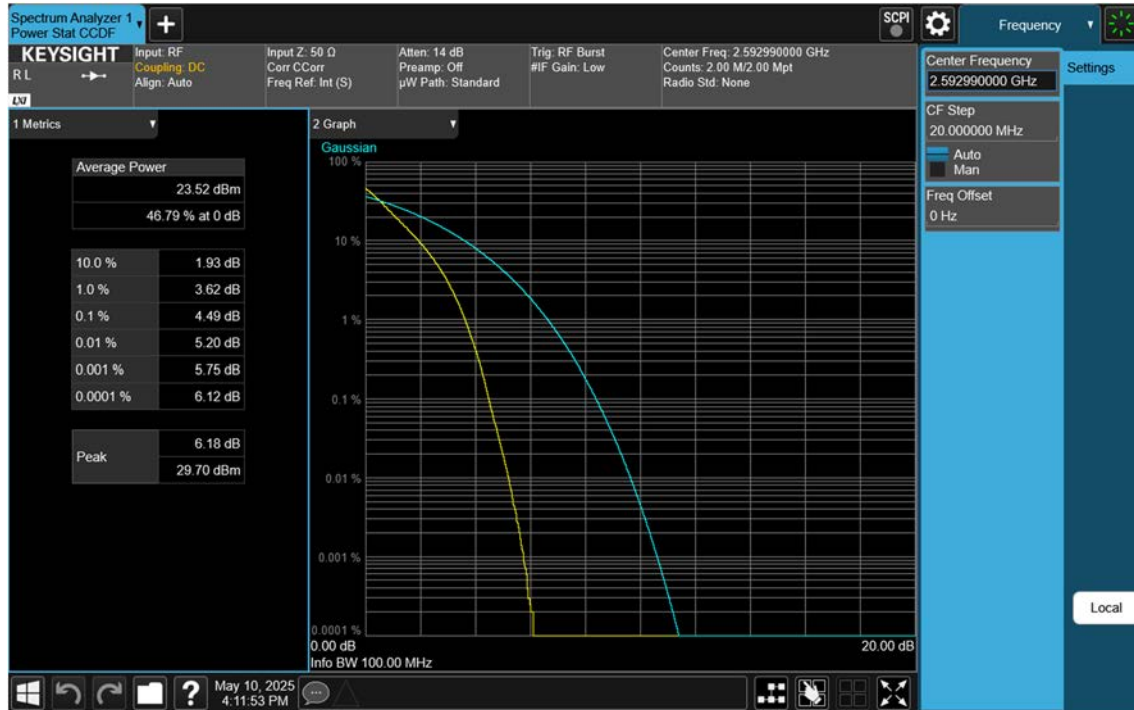
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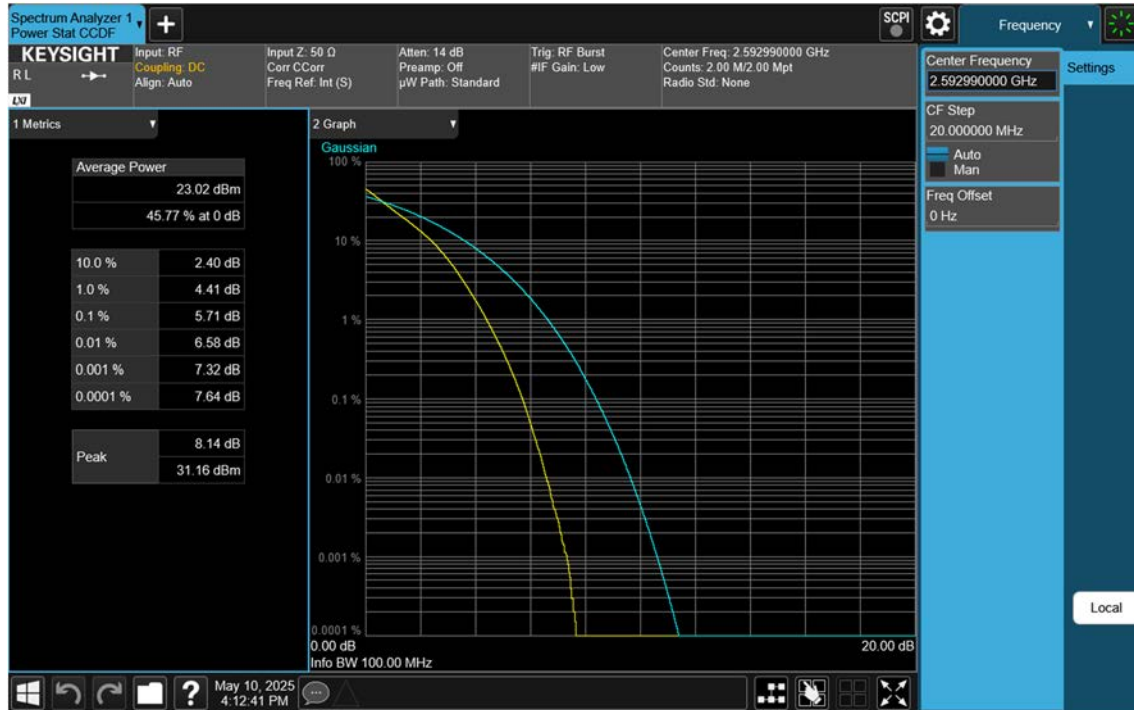
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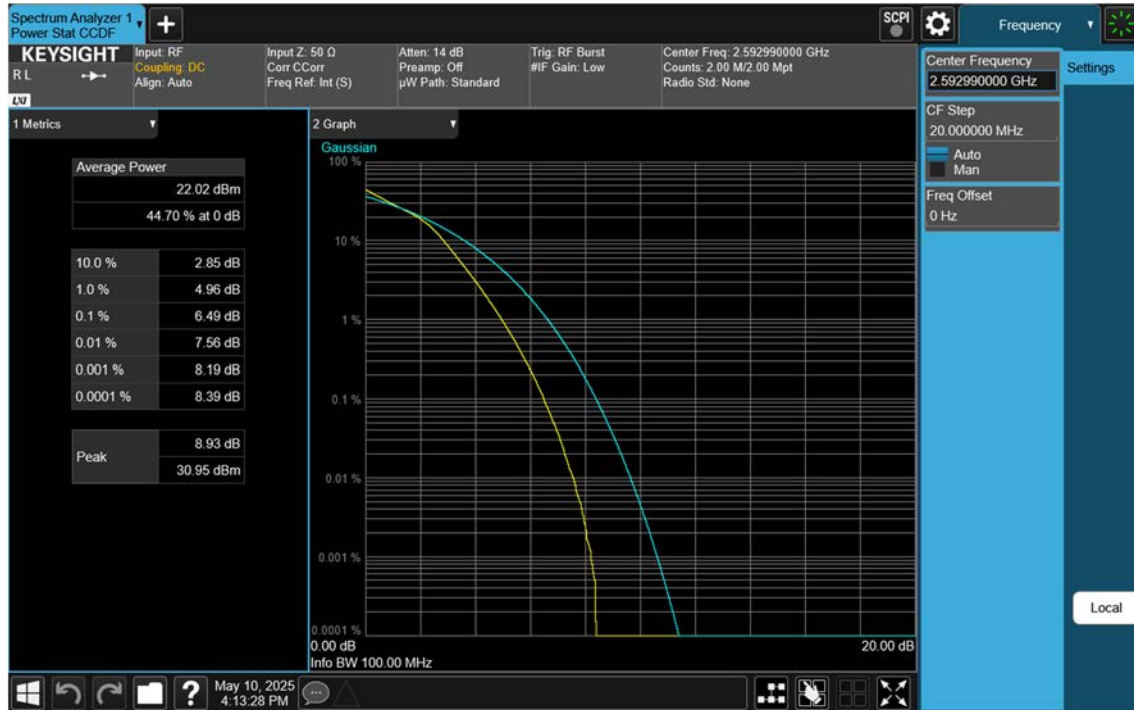
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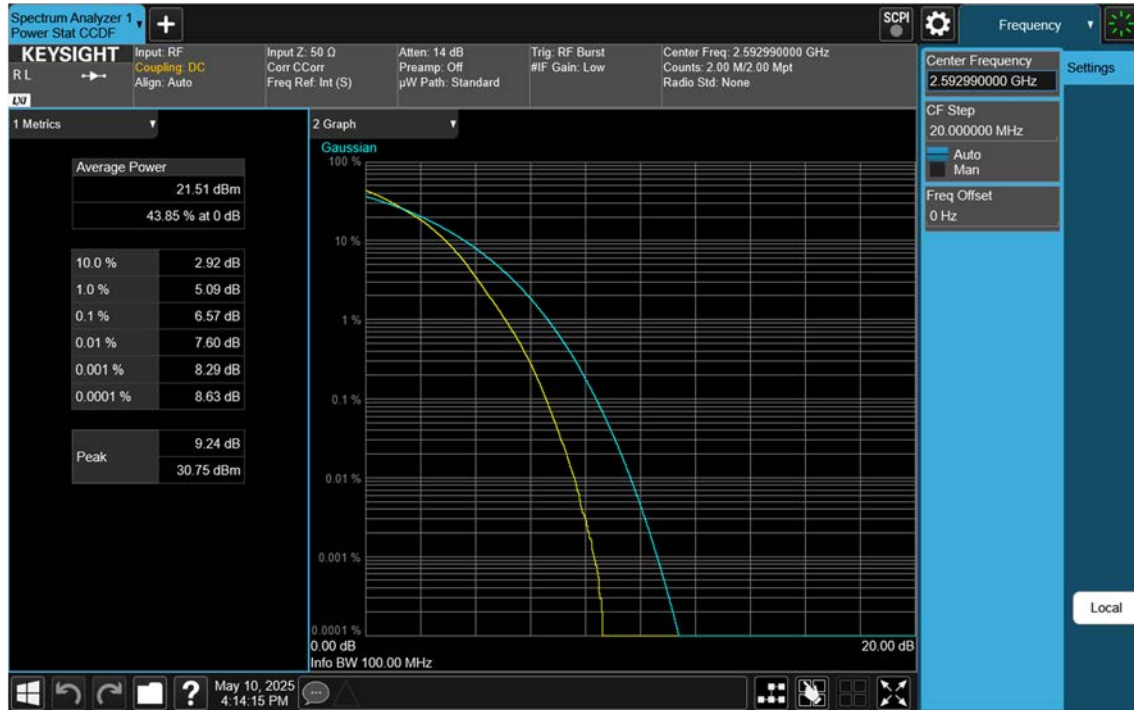
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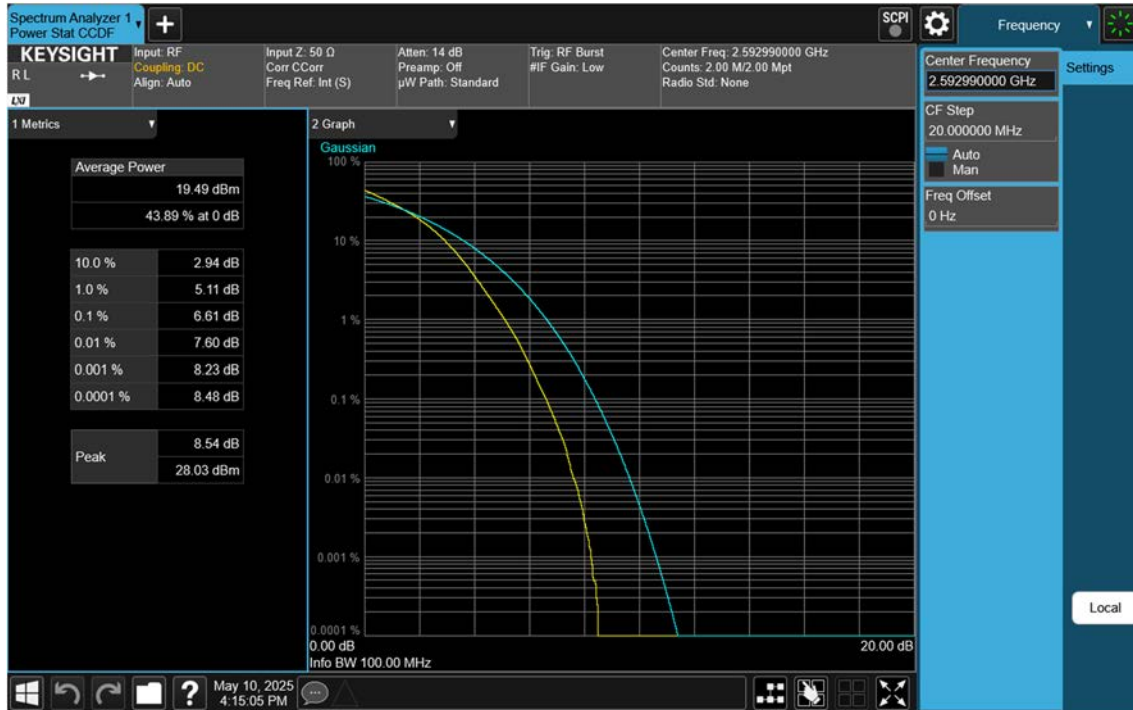
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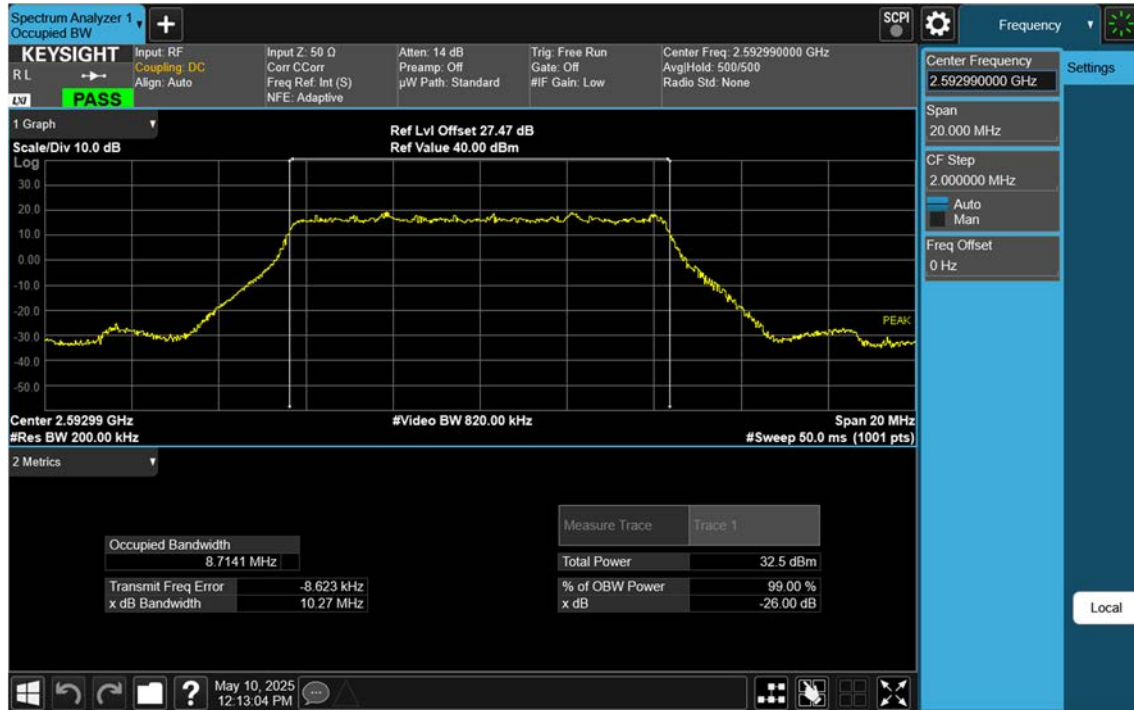
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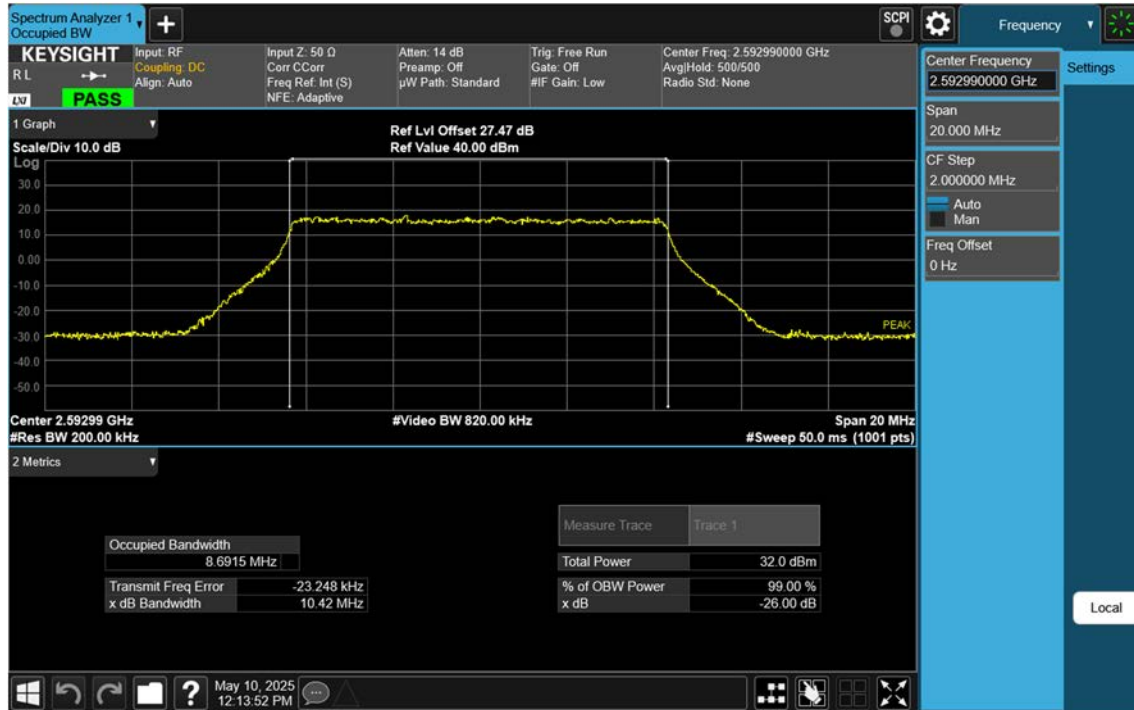
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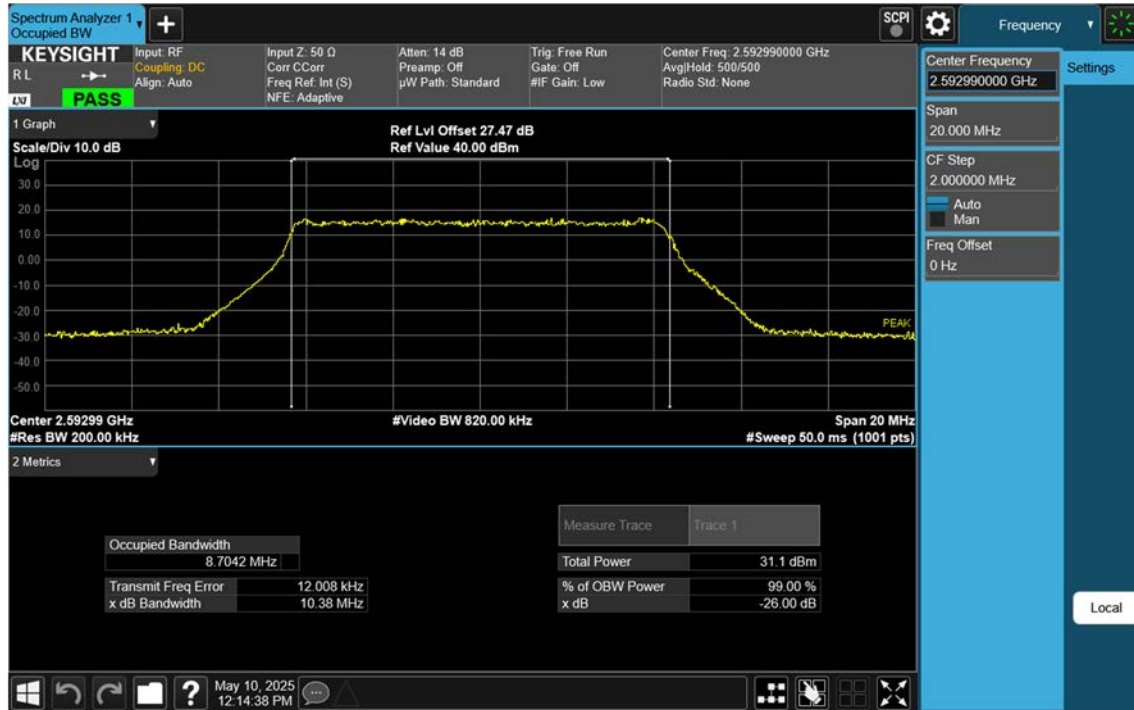
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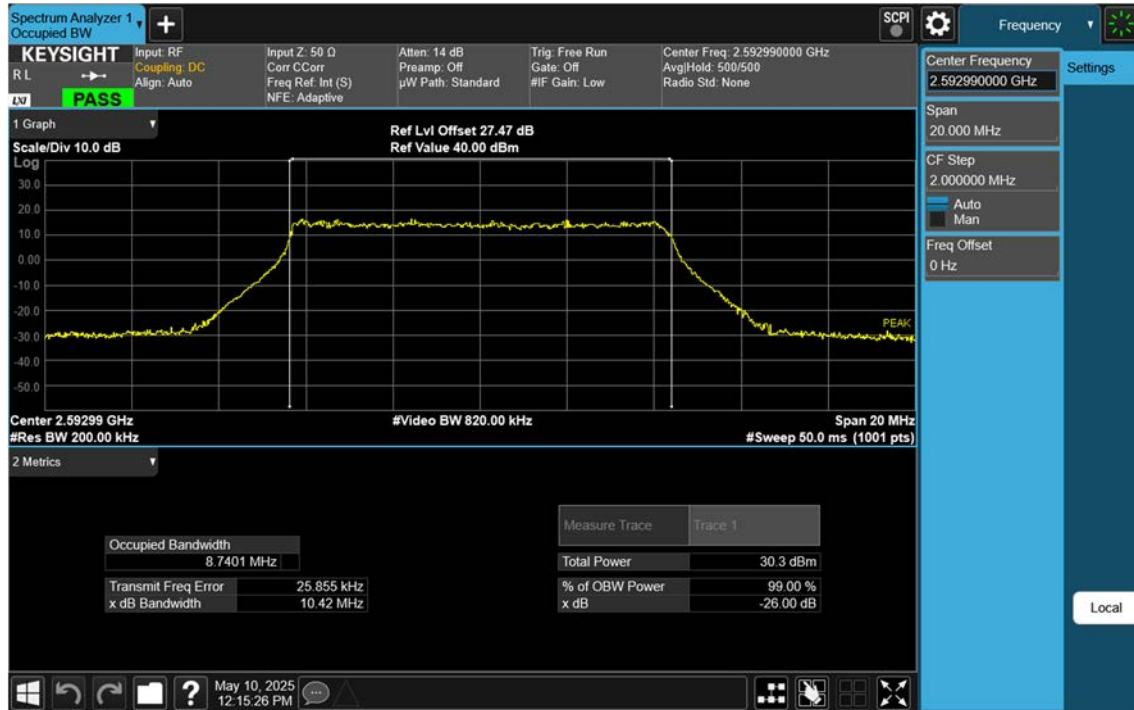
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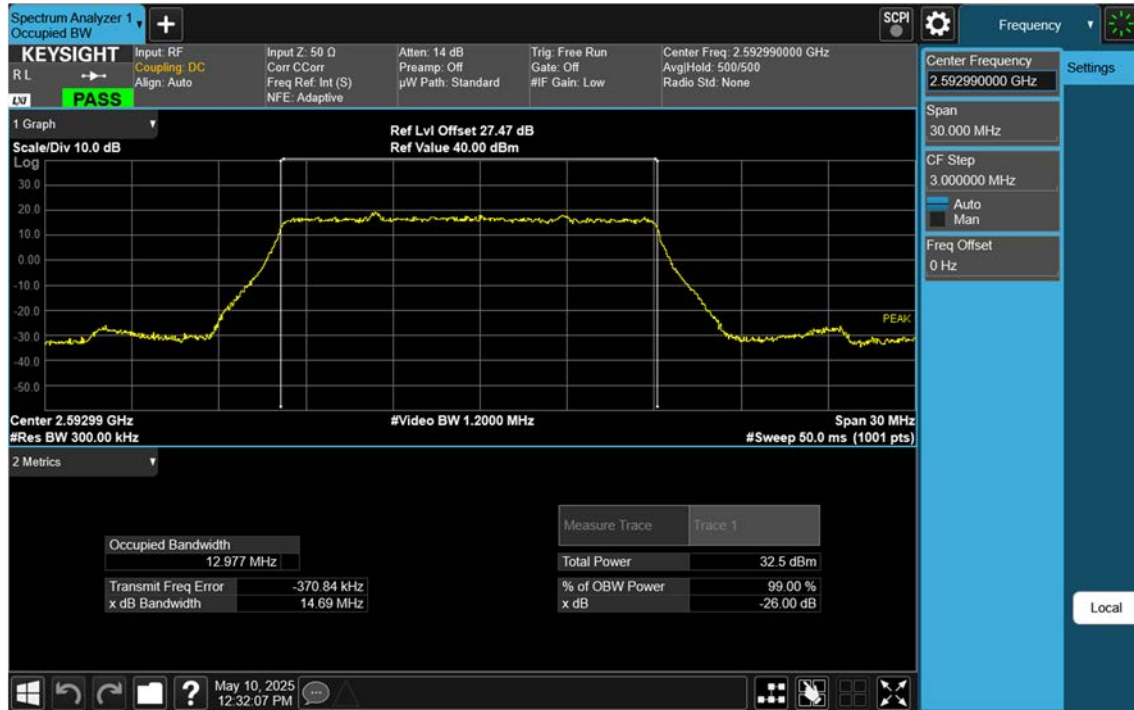
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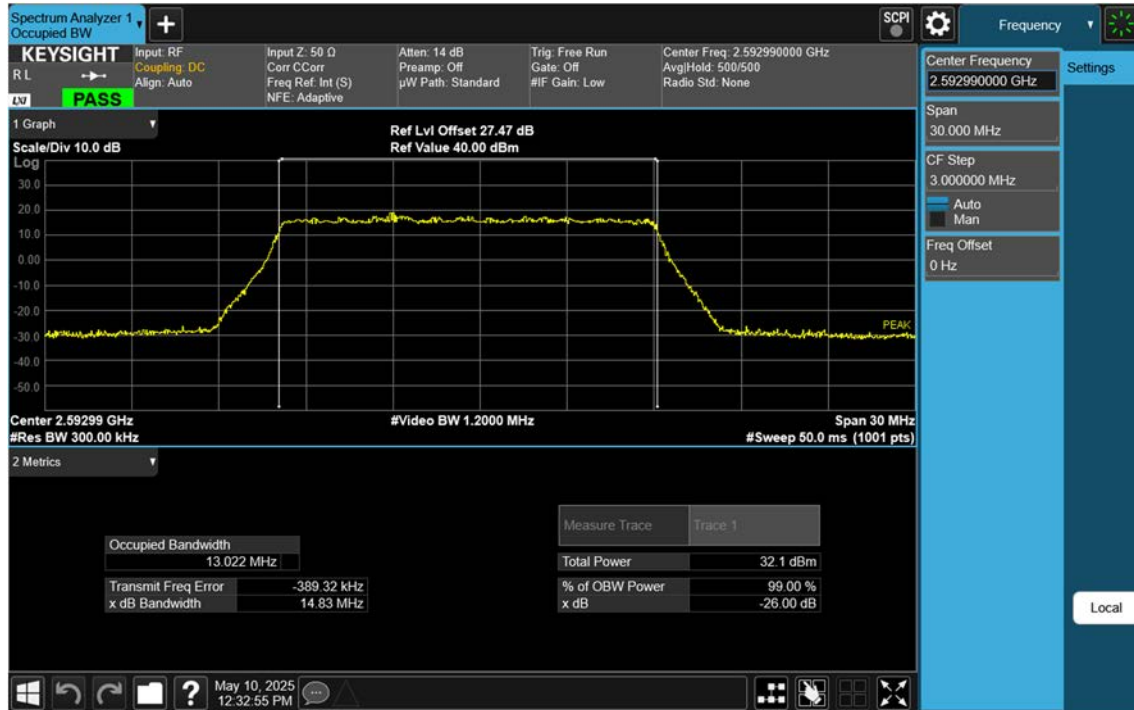
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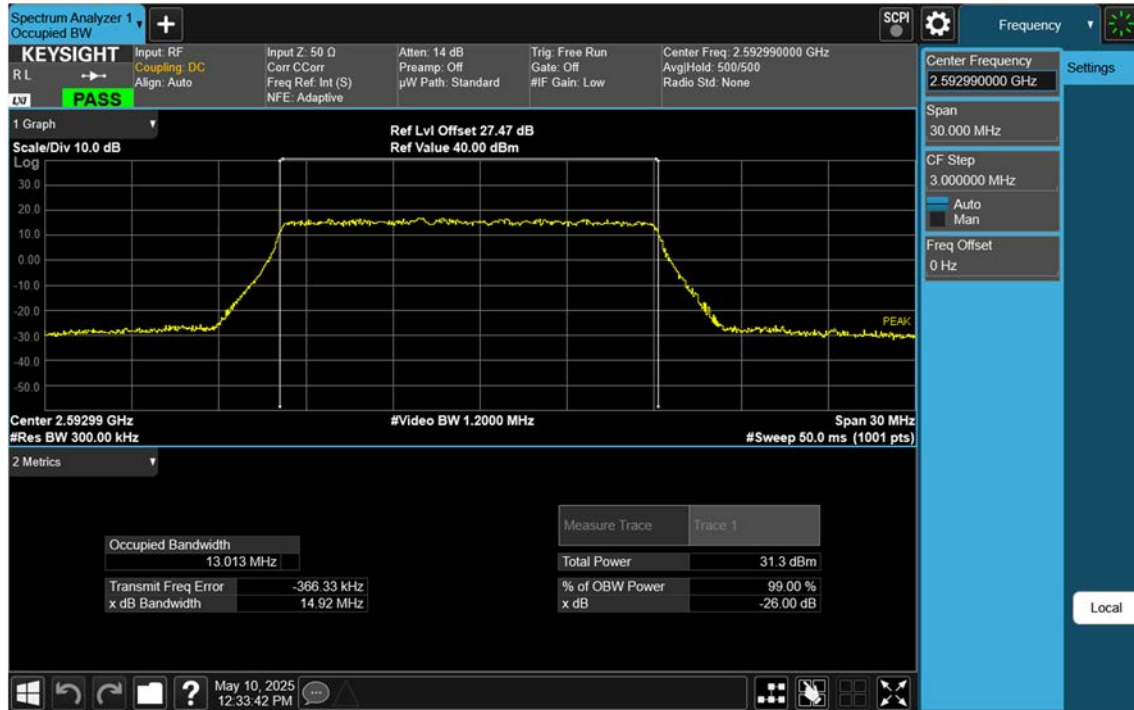
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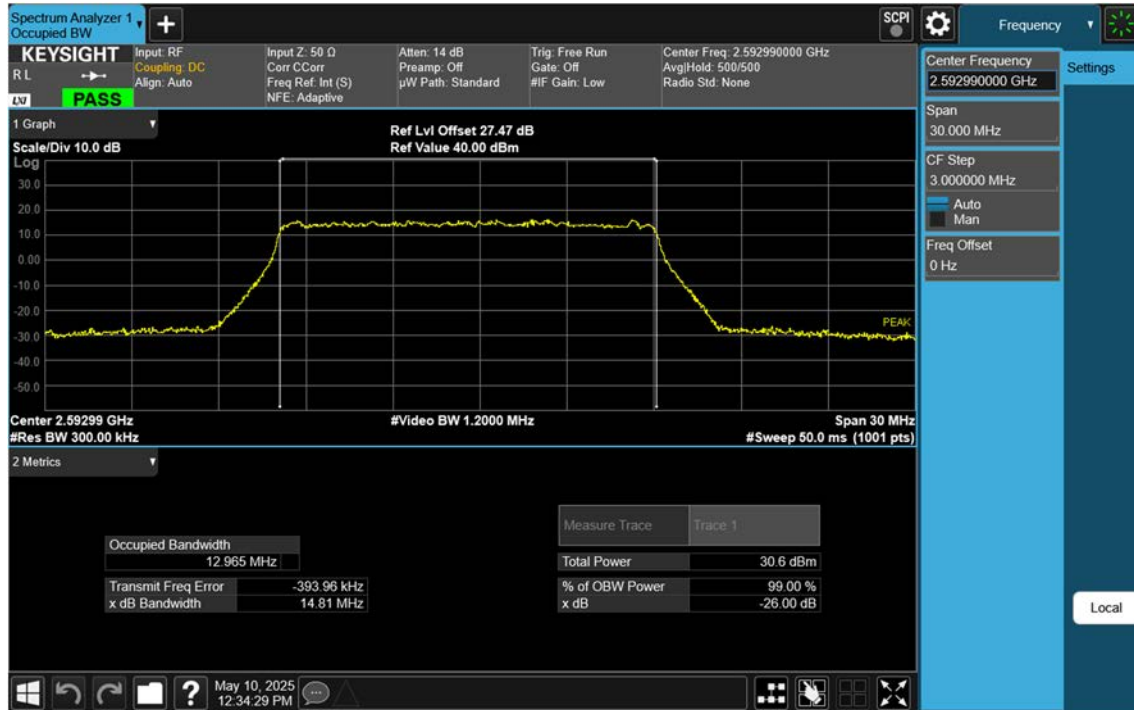
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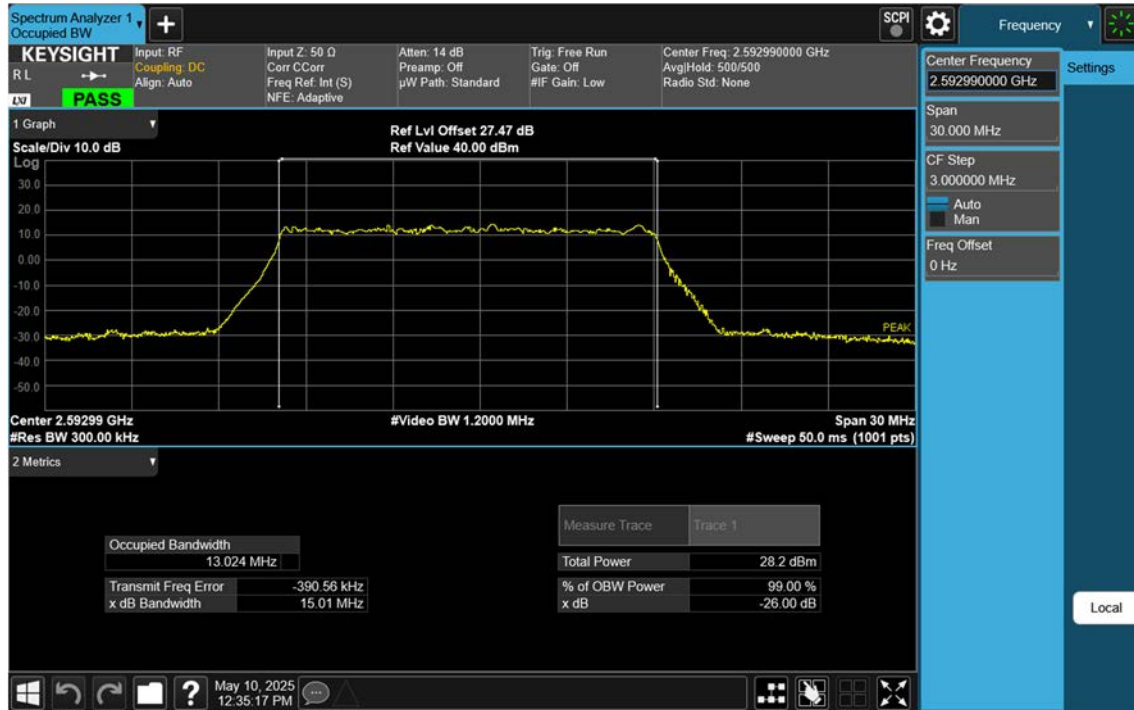
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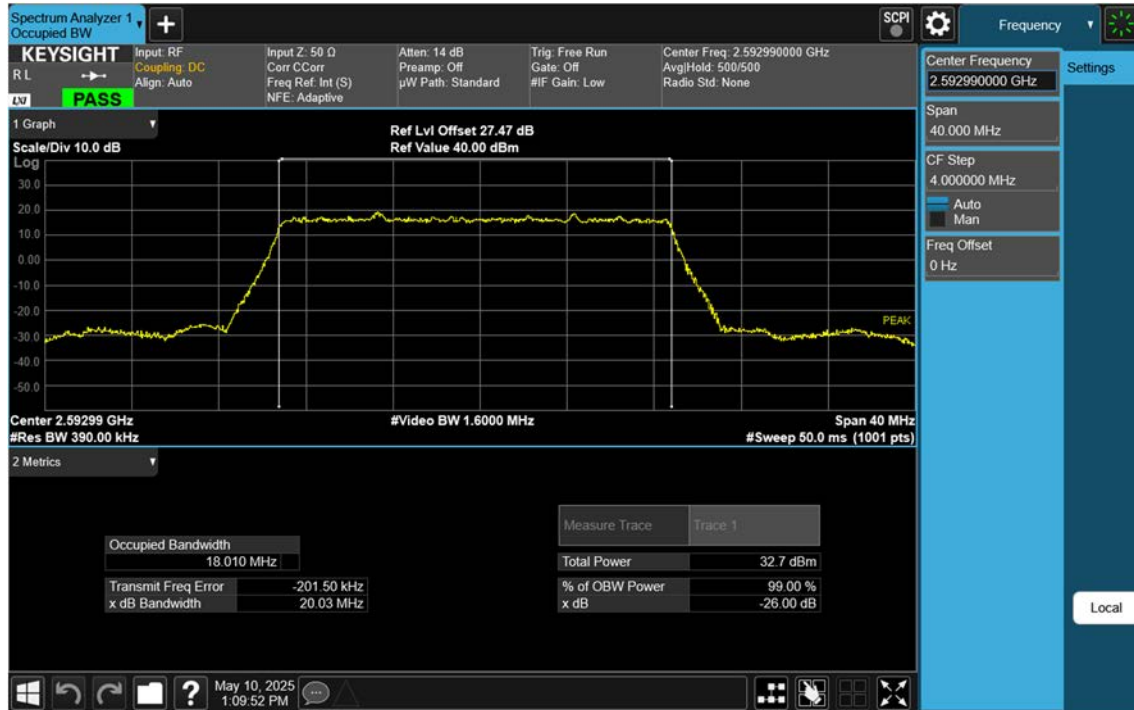
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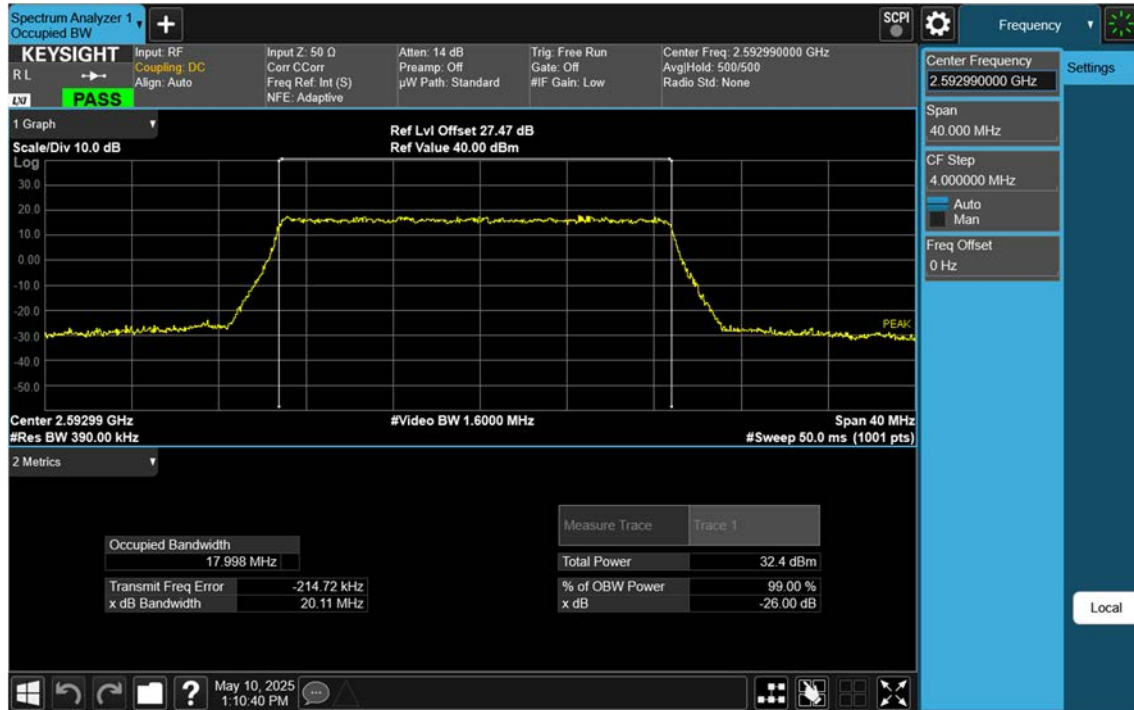
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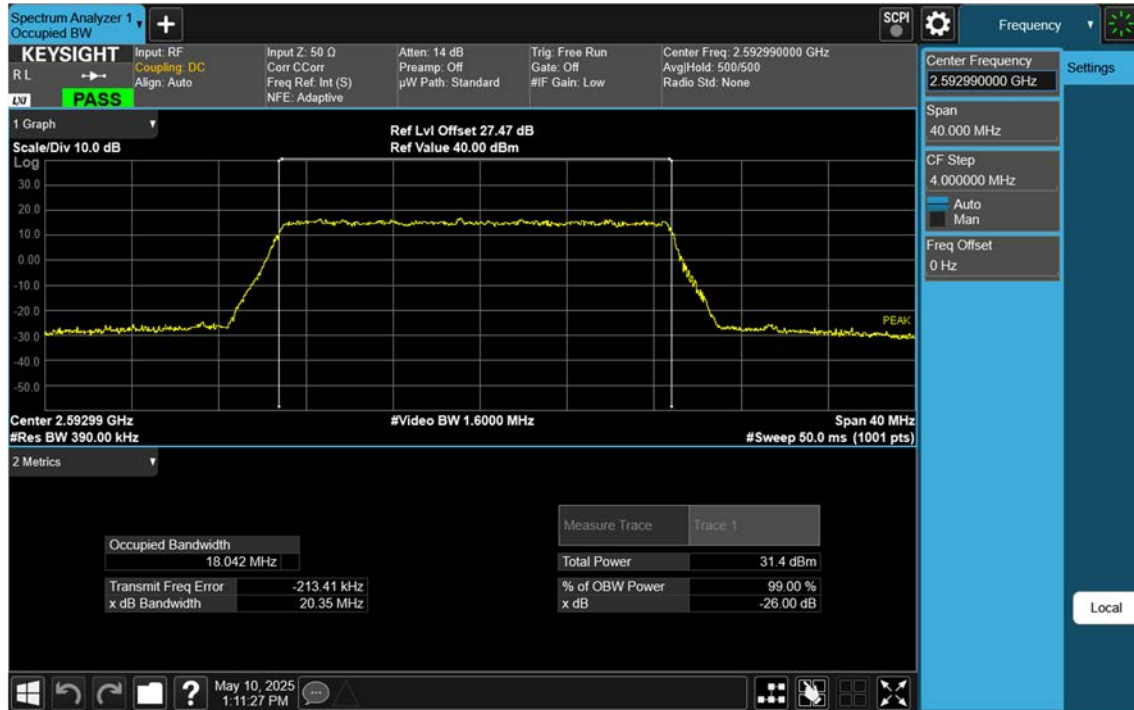
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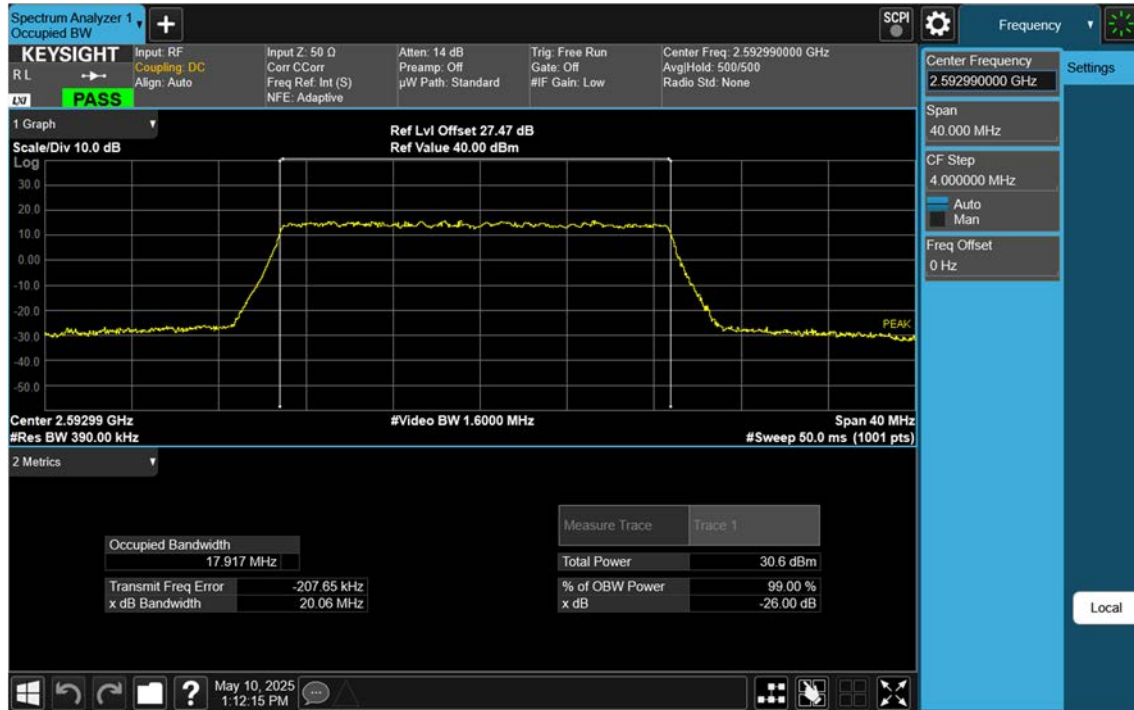
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NR41_30 M_OBW_Mid_QPSK_FullRB

