

TEST REPORT

FCC Sub6 n71 Test for TFGMEIBBCD4
Class II Permissive Change

APPLICANT
LG Electronics Inc.

REPORT NO.
HCT-RF-2409-FC010-R1

DATE OF ISSUE
October 7, 2024

Tested by
Jung Ki Lim



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TEST REPORT

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Additional Model

TFGMEIBBCD5, TFGMEIBBCD6, TFGMEIBBCD7, TFGMEIBBCD8,
TFGMEIBBCD9, TFGMEIBBCDA, TFGMEIBBCDB, TFGMEIBBCDC

Applicant

LG Electronics Inc.

10, MagokJungang-ro, Gangseo-gu, Seoul 07796, Republic of Korea

Product Name

GM Onstar Gen12 ROW

Model Name

TFGMEIBBCD4

Date of Test

May 07, 2024 ~ June 19, 2024

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 ID

BEJTFGMEIBBCD4

FCC Classification

PCS Licensed Transmitter (PCB)

Test Standard Used

FCC Rule Part(s) : § 27

Test Results

PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	September 26, 2024	Initial Release
1	October 07, 2024	Added the Note (Page 21.)

Notice

Content

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

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

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

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

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

Information provided by the applicant is marked **.

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

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

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

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	LG Electronics Inc.
Address:	10, Magok Jungang-ro, Gangseo-gu, Seoul 07796, Republic of Korea
FCC ID:	BEJTFGMEIBBCD4
Application Type:	Class II Permissive Change
FCC Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part(s):	§ 27
EUT Type:	GM Onstar Gen12 ROW
Model(s):	TFGMEIBBCD4
Additional Model(s)	TFGMEIBBCD5, TFGMEIBBCD6, TFGMEIBBCD7, TFGMEIBBCD8, TFGMEIBBCD9, TFGMEIBBCDA, TFGMEIBBCDB, TFGMEIBBCDC
SCS(kHz):	15
Bandwidth(MHz):	5, 10, 15, 20
Waveform:	CP-OFDM, DFT-S-OFDM
Modulation:	DFT-S-OFDM: PI/2 BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM CP-OFDM: QPSK, 16 QAM, 64 QAM, 256 QAM
Tx Frequency:	665.5 MHz – 695.5 MHz (Sub6 n71(5 MHz)) 668.0 MHz – 693.0 MHz (Sub6 n71(10 MHz)) 670.5 MHz – 690.5 MHz (Sub6 n71(15 MHz)) 673.0 MHz – 688.0 MHz (Sub6 n71(20 MHz))
Date(s) of Tests:	May 07, 2024 ~ June 19, 2024
Serial number:	Radiated : EBR36018942K_#30 Conducted : EBR36018942K_#14, EBR36018942K_#30 (Conducted Output Power)
External Antenna Information	ANT5 : 86531607 ANT4 : 86575530 DUT4 : 85608774

1.1. MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	ERP External Antenna		ERP Internal Antenna	
				Max. Power (W)	Max. Power (dBm)	Max. Power (W)	Max. Power (dBm)
Sub6 n71 (5)	665.5 - 695.5	4M57G7D	PI/2 BPSK	0.169	22.29	1.079	30.33
		4M59G7D	QPSK	0.169	22.28	1.042	30.18
		4M55W7D	16 QAM	0.139	21.42	0.832	29.20
		4M59W7D	64 QAM	0.092	19.66	0.603	27.80
		4M56W7D	256 QAM	0.059	17.72	0.381	25.81
Sub6 n71 (10)	668.0 - 693.0	8M98G7D	PI/2 BPSK	0.196	22.93	1.047	30.20
		8M97G7D	QPSK	0.191	22.82	1.033	30.14
		8M96W7D	16 QAM	0.150	21.75	0.818	29.13
		8M96W7D	64 QAM	0.107	20.30	0.586	27.68
		8M98W7D	256 QAM	0.067	18.23	0.362	25.59
Sub6 n71 (15)	670.5 - 690.5	13M4G7D	PI/2 BPSK	0.194	22.88	1.074	30.31
		13M5G7D	QPSK	0.193	22.85	1.067	30.28
		13M4W7D	16 QAM	0.154	21.87	0.867	29.38
		13M4W7D	64 QAM	0.107	20.29	0.608	27.84
		13M4W7D	256 QAM	0.066	18.20	0.376	25.75
Sub6 n71 (20)	673.0 - 688.0	17M9G7D	PI/2 BPSK	0.153	21.84	1.114	30.47
		17M9G7D	QPSK	0.152	21.83	1.109	30.45
		17M9W7D	16 QAM	0.120	20.80	0.877	29.43
		17M9W7D	64 QAM	0.085	19.28	0.625	27.96
		17M9W7D	256 QAM	0.053	17.25	0.393	25.94

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

The EUT was a GM Onstar Gen12 ROW with GSM/GPRS/EGPRS/UMTS and LTE, Sub6.

2.2. MEASURING INSTRUMENT CALIBRATION

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

2.3. TEST FACILITY

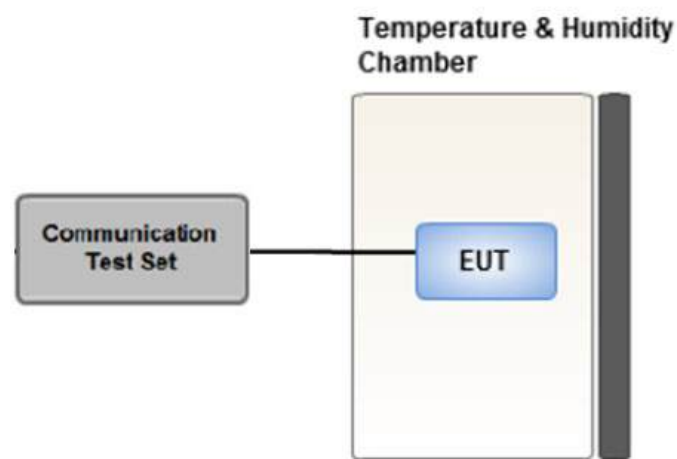
The Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the **74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea**

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

Test Description	Test Procedure Used
Occupied Bandwidth	- KDB 971168 D01 v03r01 – Section 4.3 - ANSI C63.26-2015 – Section 5.4.4
Band Edge	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Spurious and Harmonic Emissions at Antenna Terminal	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Conducted Output Power	- KDB 971168 D01 v03r01 – Section 5.2
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
Effective Radiated Power/ Effective Isotropic Radiated Power	- KDB 971168 D01 v03r01 – Section 5.2 & 5.8 - ANSI/TIA-603-E-2016 – Section 2.2.17
Radiated Spurious and Harmonic Emissions	- KDB 971168 D01 v03r01 – Section 6.2 - ANSI/TIA-603-E-2016 – Section 2.2.12

3.2 CONDUCTED OUTPUT POWER



Test setup

Test Overview

When an average power meter is used to perform RF output power measurements, the fundamental condition that measurements be performed only over durations of active transmissions at maximum output power level applies.

Conducted Output Power was tested in accordance with KDB971168 D01 Power Meas License Digital Systems v03r01, Section 5.2.

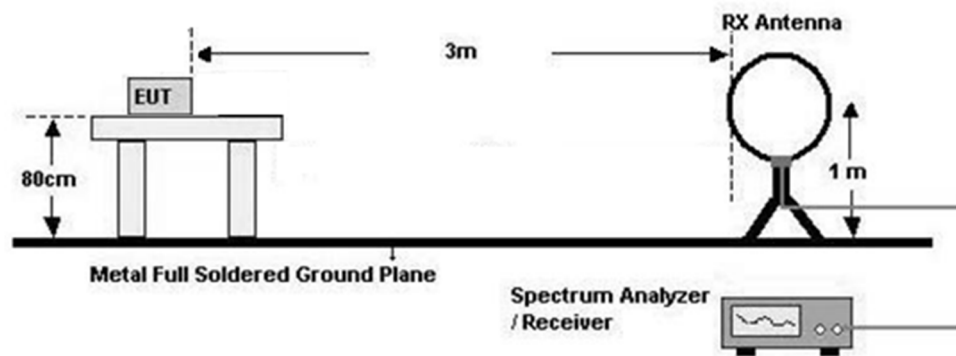
3.3 RADIATED TEST

Test Overview

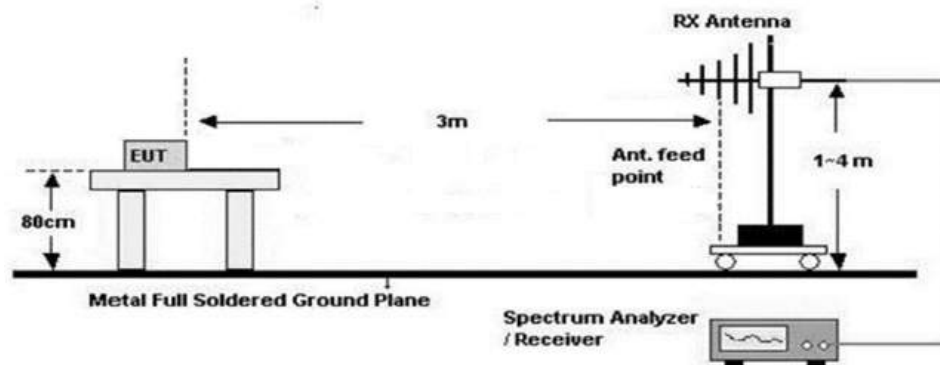
Radiated tests are performed in the semi-anechoic chamber. The equipment under test is placed on a non-conductive table on semi-anechoic chamber.

Test Configuration

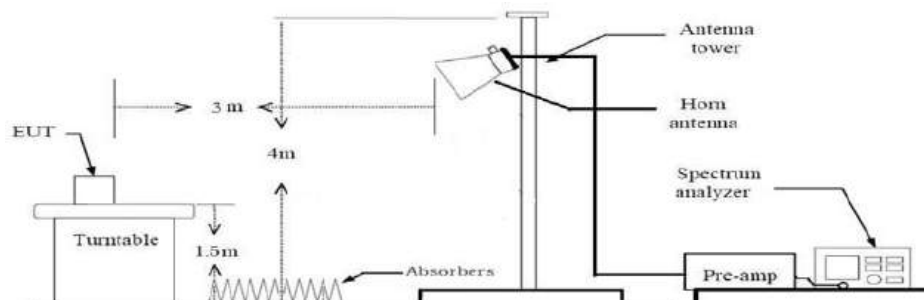
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



3.3.1 RADIATED POWER

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 EUT is placed on a turntable, which is 0.8 m above ground plane. (Below 1 GHz)
2. The EUT is placed on a turntable, which is 1.5 m above ground plane. (Above 1 GHz)
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
5. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
6. 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.
7. $\text{Total(dB}\mu\text{V/m)} = \text{Measured Value(dB}\mu\text{V)} + \text{Cable Loss(dB)} + \text{Antenna Factor(dB/m)} + \text{Distance Factor(D.F)}$
8. EIRP (dBm)
 $= \text{Total (dB}\mu\text{V/m)} + 20 \log D - 104.8$ (where D is the measurement distance in meters. D=3)
 $= \text{Total (dB}\mu\text{V/m)} - 95.2(\text{dB})$
9. $\text{ERP(dBm)} = \text{EIRP(dBm)} - 2.15(\text{dB})$

3.3.2 RADIATED SPURIOUS EMISSIONS

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. 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
2. 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.

Below 30 MHz

1. The loop antenna was placed at a location 3 m from the EUT
2. The EUT is placed on a turntable, which is 0.8 m above ground plane.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization and Parallel to the ground plane in detecting antenna.
4. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
5. Distance Correction Factor(0.009 MHz – 0.490 MHz) = $40\log(3 \text{ m}/300 \text{ m}) = - 80 \text{ dB}$
Measurement Distance : 3 m
6. Distance Correction Factor(0.490 MHz – 30 MHz) = $40\log(3 \text{ m}/30 \text{ m}) = - 40 \text{ dB}$
Measurement Distance : 3 m
7. Total = Measured Value + Antenna Factor(A.F) + Cable Loss(C.L) + Distance Factor(D.F)
8. EIRP (dBm)
= Total (dB μ V/m) + $20 \log D - 104.8$ (where D is the measurement distance in meters. D=3)
= Total (dB μ V/m) - 95.2(dB)
9. ERP(dBm) = EIRP(dBm) - 2.15(dB)

KDB 414788 OFS and Chamber Correlation Justification

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

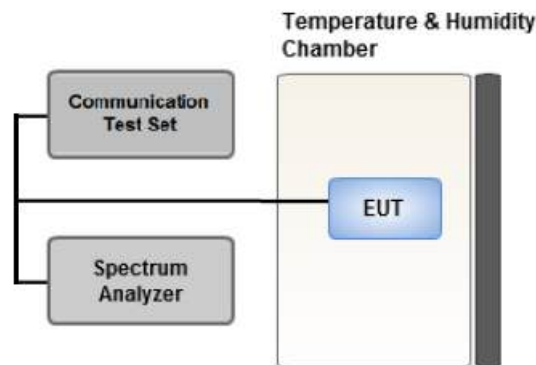
Below 1 GHz

1. The EUT is placed on a turntable, which is 0.8 m above ground plane.
2. The Hybrid antenna was placed at a location 3 m from the EUT, which is varied from 1 m to 4 m to find out the highest emissions.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
5. Total = Measured Value + Antenna Factor(A.F) + Cable Loss(C.L)
7. Total(dBμV/m) = Measured Value(dBμV) + Cable Loss(dB) + Antenna Factor(dB/m) + Distance Factor(D.F)
8. EIRP (dBm)
= Total (dBμV/m) + 20 log D – 104.8 (where D is the measurement distance in meters. D=3)
= Total (dBμV/m) - 95.2(dB)
9. ERP(dBm) = EIRP(dBm) - 2.15(dB)

Above 1 GHz

1. The EUT is placed on a turntable, which is 1.5 m above ground plane.
2. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
3. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Total(dBμV/m) = Measured Value(dBμV) + Cable Loss(dB) + Antenna Factor(dB/m) + Distance Factor(D.F) + H.P.F(dB) - Amp Gain(dB)
8. EIRP (dBm)
= Total (dBμV/m) + 20 log D – 104.8 (where D is the measurement distance in meters. D=3)
= Total (dBμV/m) - 95.2(dB)

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:

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

Test Settings(Peak Power)

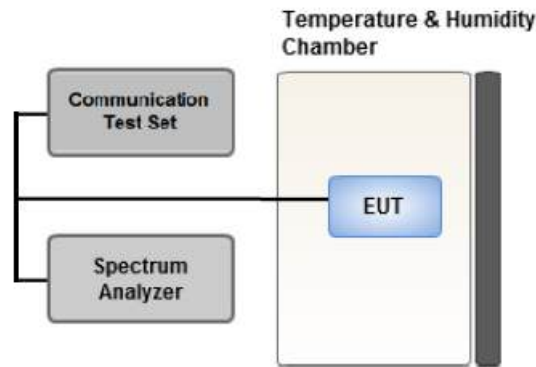
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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.

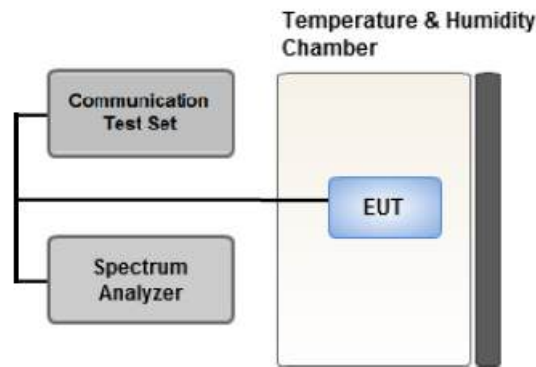
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

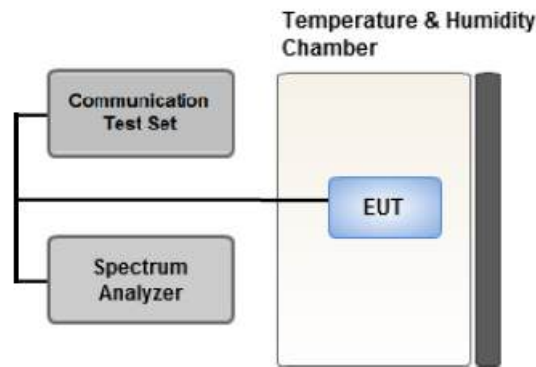
Test Overview

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 = RMS
4. Trace Mode = trace average
5. Sweep time = auto
6. Number of points in sweep $\geq$ 2 x Span / RBW

3.7 BAND EDGE



Test setup

Test Overview

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

Test Settings

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

Test Notes

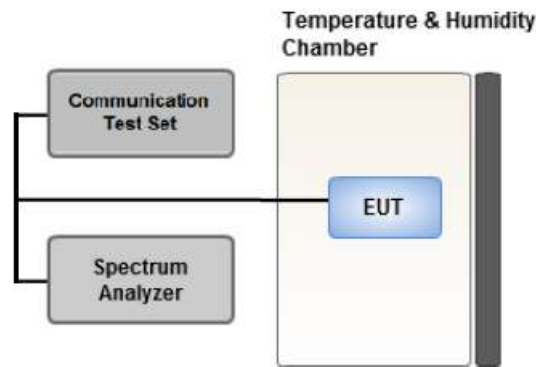
According to FCC 22.917, 24.238, 27.53 specified that power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

All measurements were done at 2 channels (low and high operational frequency range.)

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)

- 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 : SA, NSA
Worst case : SA
Mode : Internal Antenna, External Antenna (ANT 5, ANT 4, DUT 4)
Worst case : Internal Antenna, External Antenna (ANT 5)
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.
- 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.
(External Antenna Worst case : 10 MHz)
(Internal Antenna Worst case : 20 MHz)
- TFGMEIBBCD4 & additional models were tested and the worst case results are reported.
(Worst case : TFGMEIBBCD4)
- 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.

[External Antenna Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Effective Radiated Power	PI/2 BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM	See Section 8.2.1		Only X
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 8.3.1		Only X

[Internal Antenna Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Effective Radiated Power	PI/2 BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM	See Section 8.2.2		Z
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 8.3.2		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
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.
- TFGMEIBBCD4 & additional models were tested and the worst case results are reported.
(Worst case : TFGMEIBBCD4)

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth Peak- to- Average Ratio	PI/2 BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM	5,10,15,20	Mid	Full RB	0
Band Edge	PI/2 BPSK	5	Low	1	0
			High	1	24
		10	Low	1	0
			High	1	51
		15	Low	1	0
			High	1	78
		20	Low	1	0
			High	1	105
	PI/2 BPSK	5,10,15,20	Low, High	Full RB	0
			Low, Mid, High	1	1

4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Antenna Position Tower	MA4640/800-XP-ET	Innco systems	N/A	N/A	N/A
Turn Table	DS2000-S	Innco systems	N/A	N/A	N/A
Turn Table	Turn Table	Ets	N/A	N/A	N/A
Controller (Antenna mast & Turn Table)	CO3000	Innco systems	CO3000/1542/ 57580623/G	N/A	N/A
Amp & Filter Bank Switch Controller	FBSM-01B	TNM system	TM20090001	N/A	N/A
RF Switch System	TMX0132C	TNM System	TM21100002	N/A	N/A
RF Switch System	FBSR-04C HPF1	TNM System	S5L1	03/12/2025	Annual
RF Switch System	FBSR-04C LNA1	TNM System	S5L4	03/12/2025	Annual
RF Switch System	FBSR-04C HPF2	TNM System	S5L5	03/12/2025	Annual
HIGHPASS FILTER	WHKX10-900-1000- 15000-40SS	WAINWRIGHT INSTRUMENTS	16	07/24/2025	Annual
HIGHPASS FILTER	WHNX6.0/26.5G-6SS	WAINWRIGHT INSTRUMENTS	1	12/11/2024	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/17/2024	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/26/2025	Annual
Loop Antenna (9 kHz ~ 30 MHz)	FMZB1513	Schwarzbeck	1513-333	03/07/2026	Biennial
Horn Antenna(1 ~ 18 GHz)	HF907	ROHDE & SCHWARZ	103224	05/07/2026	Biennial
Horn Antenna(15 ~ 40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Bilog Antenna	VULB9160	Schwarzbeck	3150	03/09/2025	Biennial
Hybrid Antenna	VULB9160	Schwarzbeck	760	02/24/2025	Biennial
Trilog Broadband Antenna	VULB 9168	Schwarzbeck	1135	08/19/2026	Biennial
Chamber	SU-642	ESPEC	93008124	02/19/2025	Annual
Power Splitter(DC~26.5 GHz)	11667B	Hewlett Packard	11275	02/19/2025	Annual
DC Power Supply	E3632A	Hewlett Packard	KR01009150	04/18/2025	Annual
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/10/2025	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/17/2025	Annual
Spectrum Analyzer(10 Hz ~ 40 GHz)	FSV40	ROHDE & SCHWARZ	101510	03/28/2025	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/16/2025	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/14/2025	Annual
Signal Analyzer (10 Hz ~ 26.5 GHz)	N9020A	Agilent	MY52090906	04/19/2025	Annual
Signal Analyzer (5 Hz ~ 40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/17/2025	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.,	-	-	-

Note:

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

5. MEASUREMENT UNCERTAINTY

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

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

Parameter	Expanded Uncertainty ($\pm$ dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.98 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.36 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.70 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.52 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.66 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (Above 40 GHz)	5.58 (Confidence level about 95 %, $k=2$)

6. SUMMARY OF TEST RESULTS

6.1 Test Condition: Conducted Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Occupied Bandwidth	§2.1049	N/A	PASS
Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§2.1051, §27.53(g)	$< 43 + 10\log_{10} (P[\text{Watts}])$ at Band Edge and for all out-of-band emissions	PASS
Conducted Output Power	§2.1046	N/A	PASS
Frequency stability / variation of ambient temperature	§2.1055, §27.54	Emission must remain in band	PASS

Note:

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

6.2 Test Condition: Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Effective Radiated Power	§27.50(c)(10)	< 3 Watts max. ERP	PASS
Radiated Spurious and Harmonic Emissions	§2.1053, §27.53(g)	$< 43 + 10\log_{10} (P[\text{Watts}])$ for all out-of band emissions	PASS

Note:

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

7. 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 Conducted Output Power

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max.Average Power (dBm)		
						133100	136100	139100
						665.5 MHz	680.5 MHz	695.5 MHz
5 MHz	15	DFT-s	pi/2 BPSK	1	1	23.15	23.41	23.49
				1	13	23.16	23.39	23.41
				1	23	23.28	23.29	23.30
				12	0	22.67	22.91	23.01
				12	7	23.33	23.41	23.42
				12	13	22.81	22.85	22.97
				25	0	22.83	22.94	22.94
			QPSK	1	1	22.98	23.37	23.29
				1	13	22.98	23.43	23.39
				1	23	23.19	23.32	23.41
				12	0	22.30	22.44	22.54
				12	7	23.16	23.43	23.44
				12	13	22.28	22.42	22.40
				25	0	22.37	22.34	22.46
			16 QAM	1	1	22.05	22.41	22.53
			64 QAM	1	1	20.58	20.97	21.06
			256 QAM	1	1	19.00	19.01	19.06
		CP	QPSK	1	1	21.29	21.95	21.84

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max.Average Power (dBm)		
						133600	136100	138600
						668 MHz	680.5 MHz	693 MHz
10 MHz	15	DFT-s	pi/2 BPSK	1	1	22.96	23.29	23.37
				1	26	23.38	23.42	23.37
				1	50	23.37	23.39	23.34
				25	0	22.65	22.90	22.86
				25	14	23.16	23.43	23.40
				25	27	22.64	22.90	22.83
				50	0	22.75	22.86	22.92
			QPSK	1	1	22.82	23.26	23.25
				1	26	23.34	23.35	23.35
				1	50	23.35	23.22	23.30
				25	0	22.34	22.38	22.38
				25	14	23.36	23.31	23.40
				25	27	22.35	22.40	22.37
				50	0	22.40	22.35	22.33
			16 QAM	1	1	22.28	22.31	22.28
			64 QAM	1	1	20.89	20.82	20.80
			256 QAM	1	1	18.81	18.78	18.92
		CP	QPSK	1	1	21.28	21.80	21.92

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max.Average Power (dBm)		
						134100	136100	138100
						670.5 MHz	680.5 MHz	690.5 MHz
15 MHz	15	DFT-s	pi/2 BPSK	1	1	23.33	23.41	23.37
				1	40	23.43	23.44	23.43
				1	77	23.51	23.43	23.38
				36	0	22.91	22.99	22.94
				36	22	23.46	23.50	23.42
				36	43	22.98	22.90	22.95
				75	0	22.95	23.01	22.91
			QPSK	1	1	23.29	23.37	23.36
				1	40	23.43	23.47	23.37
				1	77	23.45	23.35	23.32
				36	0	22.44	22.50	22.45
				36	22	23.44	23.51	23.45
				36	43	22.49	22.41	22.44
				75	0	22.45	22.51	22.43
			16 QAM	1	1	22.35	22.37	22.38
			64 QAM	1	1	20.88	20.98	20.94
			256 QAM	1	1	18.84	18.95	18.83
		CP	QPSK	1	1	21.44	21.90	21.95

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max.Average Power (dBm)		
						134600	136100	137600
						673.0 MHz	680.5 MHz	688.0 MHz
20 MHz	15	DFT-s	pi/2 BPSK	1	1	23.24	23.37	23.50
				1	53	23.45	23.46	23.38
				1	104	23.40	23.43	23.41
				50	0	22.84	23.00	22.91
				50	28	23.44	23.46	23.39
				50	56	23.05	22.97	22.88
				100	0	22.92	22.98	22.89
			QPSK	1	1	23.26	23.32	23.44
				1	53	23.37	23.44	23.32
				1	104	23.42	23.44	23.40
				50	0	22.33	22.47	22.43
				50	28	23.46	23.47	23.41
				50	56	22.57	22.39	22.40
				100	0	22.47	22.47	22.42
			16 QAM	1	1	22.29	22.34	22.50
			64 QAM	1	1	20.81	20.87	21.03
			256 QAM	1	1	18.73	18.80	18.99
		CP	QPSK	1	1	21.36	21.91	22.07

8.2 EFFECTIVE RADIATED POWER

8.2.1 External Antenna

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBμV)	A.F+C.L+D.F (dB/m)	Total (dBμV/m)	Pol	Limit	ERP		RB	
							W	W	dBm	Size	Offset
665.5	Sub6 n71/ 5 MHz [15 kHz]	PI/2 BPSK	90.02	28.22	118.24	V	< 3.00	0.123	20.89	1	23
		QPSK	89.60	28.22	117.82	V		0.111	20.47		
		16-QAM	88.82	28.22	117.04	V		0.093	19.69		
		64-QAM	87.34	28.22	115.56	V		0.066	18.21		
		256-QAM	85.56	28.22	113.78	V		0.044	16.43		
680.5		PI/2 BPSK	90.25	28.43	118.68	V		0.136	21.33	1	1
		QPSK	90.19	28.43	118.62	V		0.134	21.27		
		16-QAM	89.20	28.43	117.63	V		0.107	20.28		
		64-QAM	87.79	28.43	116.22	V		0.077	18.87		
		256-QAM	86.02	28.43	114.45	V		0.051	17.10		
695.5		PI/2 BPSK	90.81	28.83	119.64	V		0.169	22.29	1	23
		QPSK	90.80	28.83	119.63	V		0.169	22.28		
		16-QAM	89.94	28.83	118.77	V		0.139	21.42		
		64-QAM	88.18	28.83	117.01	V		0.092	19.66		
		256-QAM	86.24	28.83	115.07	V		0.059	17.72		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBμV)	A.F+C.L+D.F (dB/m)	Total (dBμV/m)	Pol	Limit	ERP		RB	
							W	W	dBm	Size	Offset
668.0	Sub6 n71/ 10 MHz [15 kHz]	PI/2 BPSK	90.48	28.23	118.71	V	< 3.00	0.137	21.36	1	50
		QPSK	90.44	28.23	118.67	V		0.136	21.32		
		16-QAM	89.38	28.23	117.61	V		0.106	20.26		
		64-QAM	87.96	28.23	116.19	V		0.077	18.84		
		256-QAM	85.83	28.23	114.06	V		0.047	16.71		
680.5		PI/2 BPSK	90.66	28.43	119.09	V		0.149	21.74	1	1
		QPSK	90.61	28.43	119.04	V		0.148	21.69		
		16-QAM	89.53	28.43	117.96	V		0.115	20.61		
		64-QAM	87.97	28.43	116.40	V		0.080	19.05		
		256-QAM	86.00	28.43	114.43	V		0.051	17.08		
693.0		PI/2 BPSK	91.48	28.80	120.28	V		0.196	22.93	1	1
		QPSK	91.37	28.80	120.17	V		0.191	22.82		
		16-QAM	90.30	28.80	119.10	V		0.150	21.75		
		64-QAM	88.85	28.80	117.65	V		0.107	20.30		
		256-QAM	86.78	28.80	115.58	V		0.067	18.23		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBμV)	A.F+C.L+D.F (dB/m)	Total (dBμV/m)	Pol	Limit	ERP		RB	
							W	W	dBm	Size	Offset
670.5	Sub6 n71/ 15 MHz [15 kHz]	Pl/2 BPSK	90.80	28.23	119.03	V	< 3.00	0.147	21.68	1	39
		QPSK	90.78	28.23	119.01	V		0.147	21.66		
		16-QAM	89.88	28.23	118.11	V		0.119	20.76		
		64-QAM	88.40	28.23	116.63	V		0.085	19.28		
		256-QAM	86.28	28.23	114.51	V		0.052	17.16		
680.5		Pl/2 BPSK	90.75	28.43	119.18	V		0.152	21.83	1	1
		QPSK	90.72	28.43	119.15	V		0.151	21.80		
		16-QAM	89.70	28.43	118.13	V		0.120	20.78		
		64-QAM	88.25	28.43	116.68	V		0.086	19.33		
		256-QAM	86.15	28.43	114.58	V		0.053	17.23		
690.5		Pl/2 BPSK	91.55	28.68	120.23	V		0.194	22.88	1	39
		QPSK	91.52	28.68	120.20	V		0.193	22.85		
		16-QAM	90.54	28.68	119.22	V		0.154	21.87		
		64-QAM	88.96	28.68	117.64	V		0.107	20.29		
		256-QAM	86.87	28.68	115.55	V		0.066	18.20		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBμV)	A.F+C.L+D.F (dB/m)	Total (dBμV/m)	Pol	Limit	ERP		RB	
							W	W	dBm	Size	Offset
673.0	Sub6 n71/ 20 MHz [15 kHz]	Pl/2 BPSK	90.75	28.32	119.07	V	< 3.00	0.149	21.72	1	53
		QPSK	90.74	28.32	119.06	V		0.148	21.71		
		16-QAM	89.74	28.32	118.06	V		0.118	20.71		
		64-QAM	88.29	28.32	116.61	V		0.084	19.26		
		256-QAM	86.23	28.32	114.55	V		0.053	17.20		
680.5		Pl/2 BPSK	90.76	28.43	119.19	V		0.153	21.84	1	1
		QPSK	90.70	28.43	119.13	V		0.151	21.78		
		16-QAM	89.65	28.43	118.08	V		0.118	20.73		
		64-QAM	88.20	28.43	116.63	V		0.085	19.28		
		256-QAM	86.13	28.43	114.56	V		0.053	17.21		
688.0		Pl/2 BPSK	90.59	28.60	119.19	V		0.153	21.84	1	1
		QPSK	90.58	28.60	119.18	V		0.152	21.83		
		16-QAM	89.55	28.60	118.15	V		0.120	20.80		
		64-QAM	88.00	28.60	116.60	V		0.084	19.25		
		256-QAM	86.00	28.60	114.60	V		0.053	17.25		

8.2.2 Internal Antenna

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBμV)	A.F+C.L+D.F (dB/m)	Total (dBμV/m)	Pol	Limit	ERP		RB	
							W	W	dBm	Size	Offset
665.5	Sub6 n71/ 5 MHz [15 kHz]	Pl/2 BPSK	98.90	28.22	127.12	H	< 3.00	0.948	29.77	1	23
		QPSK	98.73	28.22	126.95	H		0.911	29.60		
		16-QAM	97.75	28.22	125.97	H		0.727	28.62		
		64-QAM	96.42	28.22	124.64	H		0.535	27.29		
		256-QAM	94.29	28.22	122.51	H		0.328	25.16		
680.5		Pl/2 BPSK	99.25	28.43	127.68	H		1.079	30.33	1	1
		QPSK	99.10	28.43	127.53	H		1.042	30.18		
		16-QAM	98.12	28.43	126.55	H		0.832	29.20		
		64-QAM	96.72	28.43	125.15	H		0.603	27.80		
		256-QAM	94.73	28.43	123.16	H		0.381	25.81		
695.5		Pl/2 BPSK	97.70	28.83	126.53	H		0.829	29.18	1	1
		QPSK	97.48	28.83	126.31	H		0.788	28.96		
		16-QAM	96.55	28.83	125.38	H		0.636	28.03		
		64-QAM	95.20	28.83	124.03	H		0.466	26.68		
		256-QAM	93.43	28.83	122.26	H		0.310	24.91		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBμV)	A.F+C.L+D.F (dB/m)	Total (dBμV/m)	Pol	Limit	ERP		RB	
							W	W	dBm	Size	Offset
668.0	Sub6 n71/ 10 MHz [15 kHz]	Pl/2 BPSK	99.26	28.23	127.49	H	< 3.00	1.033	30.14	1	50
		QPSK	99.22	28.23	127.45	H		1.023	30.10		
		16-QAM	98.25	28.23	126.48	H		0.818	29.13		
		64-QAM	96.68	28.23	124.91	H		0.570	27.56		
		256-QAM	94.70	28.23	122.93	H		0.361	25.58		
680.5		Pl/2 BPSK	99.12	28.43	127.55	H		1.047	30.20	1	1
		QPSK	99.06	28.43	127.49	H		1.033	30.14		
		16-QAM	98.04	28.43	126.47	H		0.816	29.12		
		64-QAM	96.60	28.43	125.03	H		0.586	27.68		
		256-QAM	94.51	28.43	122.94	H		0.362	25.59		
693.0		Pl/2 BPSK	98.52	28.80	127.32	H		0.993	29.97	1	1
		QPSK	98.48	28.80	127.28	H		0.984	29.93		
		16-QAM	97.41	28.80	126.21	H		0.769	28.86		
		64-QAM	96.00	28.80	124.80	H		0.556	27.45		
		256-QAM	93.99	28.80	122.79	H		0.350	25.44		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBμV)	A.F+C.L+D.F (dB/m)	Total (dBμV/m)	Pol	Limit	ERP		RB	
							W	W	dBm	Size	Offset
670.5	Sub6 n71/ 15 MHz [15 kHz]	Pl/2 BPSK	99.42	28.23	127.65	H	< 3.00	1.072	30.30	1	39
		QPSK	99.40	28.23	127.63	H		1.067	30.28		
		16-QAM	98.45	28.23	126.68	H		0.857	29.33		
		64-QAM	96.85	28.23	125.08	H		0.593	27.73		
		256-QAM	94.87	28.23	123.10	H		0.376	25.75		
680.5		Pl/2 BPSK	99.23	28.43	127.66	H		1.074	30.31	1	1
		QPSK	99.15	28.43	127.58	H		1.054	30.23		
		16-QAM	98.30	28.43	126.73	H		0.867	29.38		
		64-QAM	96.76	28.43	125.19	H		0.608	27.84		
		256-QAM	94.67	28.43	123.10	H		0.376	25.75		
690.5		Pl/2 BPSK	98.85	28.68	127.53	H		1.043	30.18	1	1
		QPSK	98.81	28.68	127.49	H		1.033	30.14		
		16-QAM	97.83	28.68	126.51	H		0.825	29.16		
		64-QAM	96.32	28.68	125.00	H		0.583	27.65		
		256-QAM	94.25	28.68	122.93	H		0.362	25.58		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBμV)	A.F+C.L+D.F (dB/m)	Total (dBμV/m)	Pol	Limit	ERP		RB	
							W	W	dBm	Size	Offset
673.0	Sub6 n71/ 20 MHz [15 kHz]	Pl/2 BPSK	99.35	28.32	127.67	H	< 3.00	1.077	30.32	1	53
		QPSK	99.32	28.32	127.64	H		1.069	30.29		
		16-QAM	98.42	28.32	126.74	H		0.869	29.39		
		64-QAM	96.85	28.32	125.17	H		0.605	27.82		
		256-QAM	94.88	28.32	123.20	H		0.385	25.85		
680.5		Pl/2 BPSK	99.32	28.43	127.75	H		1.096	30.40	1	1
		QPSK	99.30	28.43	127.73	H		1.091	30.38		
		16-QAM	98.35	28.43	126.78	H		0.877	29.43		
		64-QAM	96.88	28.43	125.31	H		0.625	27.96		
		256-QAM	94.86	28.43	123.29	H		0.393	25.94		
688.0		Pl/2 BPSK	99.22	28.60	127.82	H		1.114	30.47	1	1
		QPSK	99.20	28.60	127.80	H		1.109	30.45		
		16-QAM	98.10	28.60	126.70	H		0.861	29.35		
		64-QAM	96.66	28.60	125.26	H		0.618	27.91		
		256-QAM	94.56	28.60	123.16	H		0.381	25.81		

8.3 RADIATED SPURIOUS EMISSIONS

8.3.1 External Antenna

■ NR Band:	<u>N71</u>
■ Bandwidth:	<u>10 MHz</u>
■ Modulation:	<u>PI/2 BPSK</u>
■ Distance:	<u>3 meters</u>
■ SCS:	<u>15 kHz</u>

Ch	Freq (MHz)	Measured Level (dBμV)	A.F+C.L+D.F+H.P.F -A.G (dB/m)	Total (dBμV/m)	Pol	Result (dBm)	Limit (dBm)	RB	
								Size	Size
133600 (668.0)	1 336.00	57.35	-18.82	38.53	V	-56.67	-13.00	1	50
	2 004.00	69.29	-13.40	55.89	V	-39.31	-13.00		
	2 672.00	51.44	-11.15	40.29	V	-54.91	-13.00		
	3 340.00	51.77	-8.29	43.48	V	-51.72	-13.00		
	4 008.00	59.73	-6.53	53.20	V	-42.00	-13.00		
	4 676.00	48.65	-4.95	43.70	V	-51.50	-13.00		
136100 (680.5)	1 361.00	55.79	-18.48	37.31	V	-57.89	-13.00	1	1
	2 041.50	69.66	-13.19	56.47	V	-38.73	-13.00		
	2 722.00	52.00	-11.39	40.61	V	-54.59	-13.00		
	3 402.50	51.30	-8.23	43.07	V	-52.13	-13.00		
	4 083.00	61.94	-6.20	55.74	V	-39.46	-13.00		
	4 763.50	49.08	-4.60	44.48	V	-50.72	-13.00		
138600 (693.0)	1 386.00	57.34	-18.07	39.27	V	-55.93	-13.00	1	1
	2 079.00	68.26	-13.32	54.94	V	-40.26	-13.00		
	2 772.00	51.94	-11.30	40.64	V	-54.56	-13.00		
	3 465.00	51.85	-8.35	43.50	V	-51.70	-13.00		
	4 158.00	56.70	-5.71	50.99	V	-44.21	-13.00		
	4 851.00	49.05	-3.77	45.28	V	-49.92	-13.00		

8.3.2 Internal Antenna

■ NR Band:	<u>N71</u>
■ Bandwidth:	<u>20 MHz</u>
■ Modulation:	<u>PI/2 BPSK</u>
■ Distance:	<u>3 meters</u>
■ SCS:	<u>15 kHz</u>

Ch	Freq (MHz)	Measured Level (dBμV)	A.F+C.L+D.F+H.P.F -A.G (dB/m)	Total (dBμV/m)	Pol	Result (dBm)	Limit (dBm)	RB	
								Size	Size
134600 (673.0)	1 346.00	66.52	-18.68	47.84	H	-47.36	-13.00	1	53
	2 019.00	57.38	-13.30	44.08	V	-51.12	-13.00		
	2 692.00	52.00	-11.29	40.71	H	-54.49	-13.00		
	3 365.00	52.73	-8.24	44.49	H	-50.71	-13.00		
	4 038.00	62.47	-6.36	56.11	V	-39.09	-13.00		
	4 711.00	49.92	-4.84	45.08	H	-50.12	-13.00		
136100 (680.5)	1 361.00	65.97	-18.48	47.49	V	-47.71	-13.00	1	1
	2 041.50	56.15	-13.19	42.96	V	-52.24	-13.00		
	2 722.00	53.00	-11.39	41.61	H	-53.59	-13.00		
	3 402.50	53.02	-8.23	44.79	H	-50.41	-13.00		
	4 083.00	62.28	-6.20	56.08	V	-39.12	-13.00		
	4 763.50	49.58	-4.60	44.98	H	-50.22	-13.00		
137600 (688.0)	1 376.00	69.12	-18.32	50.80	H	-44.40	-13.00	1	1
	2 064.00	58.23	-13.37	44.86	H	-50.34	-13.00		
	2 752.00	54.73	-11.50	43.23	H	-51.97	-13.00		
	3 440.00	51.79	-8.40	43.39	H	-51.81	-13.00		
	4 128.00	58.87	-5.97	52.90	H	-42.30	-13.00		
	4 816.00	49.36	-4.16	45.20	H	-50.00	-13.00		

8.4 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequenc y (MHz)	Modulatio n	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n71	5 MHz	680.5	BPSK	25	0	3.84
			QPSK			4.39
			16-QAM			5.49
			64-QAM			5.79
			256-QAM			6.30
	10 MHz		BPSK	50		4.05
			QPSK			4.54
			16-QAM			5.45
			64-QAM			5.93
			256-QAM			6.53
	15 MHz		BPSK	75		4.04
			QPSK			4.48
			16-QAM			5.33
			64-QAM			5.83
			256-QAM			6.50
	20 MHz		BPSK	100		3.55
			QPSK			4.44
			16-QAM			5.38
			64-QAM			5.87
			256-QAM			6.49

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 69 ~ 88.

8.5 OCCUPIED BANDWIDTH

Band	Band Width	Frequenc y (MHz)	Modulatio n	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n71	5 MHz	680.5	BPSK	25	0	4.5708
			QPSK			4.5859
			16-QAM			4.5457
			64-QAM			4.5943
			256-QAM			4.5628
	10 MHz		BPSK	50		8.9801
			QPSK			8.9671
			16-QAM			8.9611
			64-QAM			8.9546
			256-QAM			8.9768
	15 MHz		BPSK	75		13.432
			QPSK			13.453
			16-QAM			13.437
			64-QAM			13.411
			256-QAM			13.420
	20 MHz		BPSK	100		17.892
			QPSK			17.874
			16-QAM			17.867
			64-QAM			17.878
			256-QAM			17.876

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 49 ~ 68.

8.6 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 n71	5	665.5	8.0080	30.815	-74.272	-43.457	-13.00
		680.5	4.0479	30.200	-74.041	-43.841	
		695.5	9.6999	30.815	-73.962	-43.147	
	10	668.0	9.1216	30.815	-74.262	-43.447	
		680.5	3.7807	30.200	-74.098	-43.898	
		693.0	8.2373	30.815	-74.011	-43.196	
	15	670.5	3.7907	30.200	-74.354	-44.154	
		680.5	3.8106	30.200	-74.283	-44.083	
		690.5	4.0270	30.200	-73.271	-43.071	
	20	673.0	8.2592	30.815	-74.306	-43.491	
		680.5	8.2911	30.815	-74.718	-43.903	
		688.0	8.0045	30.815	-74.478	-43.663	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 121 ~ 132.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Attenuator + Splitter

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

8.7 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 89 ~ 120.

8.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ☐ BandWidth: 5 MHz
☐ Voltage(100 %): 13.500 VDC
☐ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
665.5	100 %	+20(Ref)	665 500 001	0.0	0.000 000	0.000
	100 %	-30	665 499 996	-5.4	-0.000 001	-0.008
	100 %	-20	665 499 999	-2.7	0.000 000	-0.004
	100 %	-10	665 500 001	0.1	0.000 000	0.000
	100 %	0	665 499 998	-3.4	-0.000 001	-0.005
	100 %	+10	665 500 001	-0.7	0.000 000	-0.001
	100 %	+30	665 500 000	-1.1	0.000 000	-0.002
	100 %	+40	665 499 997	-4.3	-0.000 001	-0.006
	100 %	+50	665 499 997	-4.5	-0.000 001	-0.007
	85%	+20	665 499 999	-1.8	0.000 000	-0.003
	115%	+20	665 500 004	2.9	0.000 000	0.004
695.5	100 %	+20(Ref)	695 499 998	0.0	0.000 000	0.000
	100 %	-30	695 499 995	-3.0	0.000 000	-0.004
	100 %	-20	695 499 994	-3.9	-0.000 001	-0.006
	100 %	-10	695 499 993	-4.8	-0.000 001	-0.007
	100 %	0	695 499 996	-2.5	0.000 000	-0.004
	100 %	+10	695 499 995	-3.4	0.000 000	-0.005
	100 %	+30	695 499 997	-1.2	0.000 000	-0.002
	100 %	+40	695 499 993	-5.0	-0.000 001	-0.007
	100 %	+50	695 499 995	-2.6	0.000 000	-0.004
	85%	+20	695 499 998	-0.6	0.000 000	-0.001
	115%	+20	695 500 001	3.2	0.000 000	0.005

- ☐ BandWidth: 10 MHz
☐ Voltage(100 %): 13.500 VDC
☐ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
668.0	100 %	+20(Ref)	668 000 004	0.0	0.000 000	0.000
	100 %	-30	668 000 008	4.0	0.000 001	0.006
	100 %	-20	668 000 011	6.7	0.000 001	0.010
	100 %	-10	668 000 008	3.4	0.000 001	0.005
	100 %	0	668 000 011	6.1	0.000 001	0.009
	100 %	+10	668 000 013	8.7	0.000 001	0.013
	100 %	+30	668 000 013	8.4	0.000 001	0.013
	100 %	+40	668 000 010	5.2	0.000 001	0.008
	100 %	+50	668 000 012	8.0	0.000 001	0.012
	85%	+20	668 000 003	-1.1	0.000 000	-0.002
	115%	+20	668 000 007	2.5	0.000 000	0.004
693.0	100 %	+20(Ref)	693 000 003	0.0	0.000 000	0.000
	100 %	-30	693 000 008	5.3	0.000 001	0.008
	100 %	-20	693 000 008	4.6	0.000 001	0.007
	100 %	-10	693 000 007	4.0	0.000 001	0.006
	100 %	0	693 000 009	6.3	0.000 001	0.009
	100 %	+10	693 000 009	5.7	0.000 001	0.008
	100 %	+30	693 000 006	2.7	0.000 000	0.004
	100 %	+40	693 000 008	4.7	0.000 001	0.007
	100 %	+50	693 000 007	4.1	0.000 001	0.006
	85%	+20	693 000 000	-3.3	0.000 000	-0.005
	115%	+20	693 000 005	2.2	0.000 000	0.003

- ☐ BandWidth: 15 MHz
☐ Voltage(100 %): 13.500 VDC
☐ LIMIT: Emission must remain in band

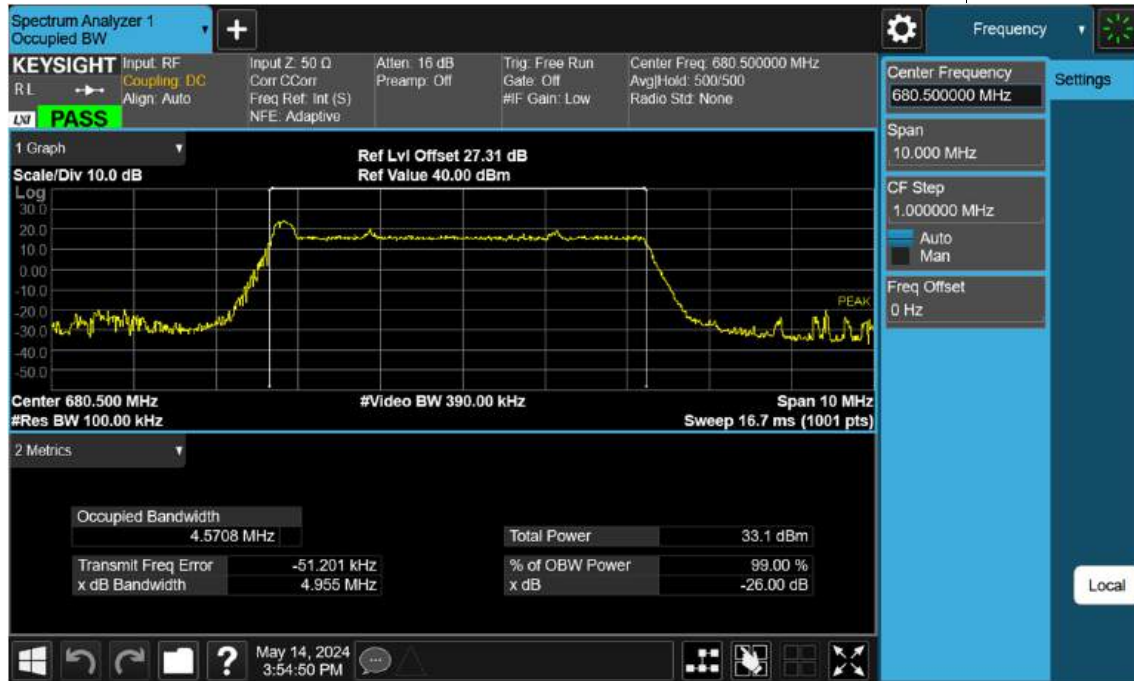
Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
670.5	100 %	+20(Ref)	670 500 002	0.0	0.000 000	0.000
	100 %	-30	670 500 006	4.3	0.000 001	0.006
	100 %	-20	670 500 002	0.5	0.000 000	0.001
	100 %	-10	670 500 008	5.8	0.000 001	0.009
	100 %	0	670 500 004	2.4	0.000 000	0.004
	100 %	+10	670 500 004	1.8	0.000 000	0.003
	100 %	+30	670 500 003	1.1	0.000 000	0.002
	100 %	+40	670 500 006	3.8	0.000 001	0.006
	100 %	+50	670 500 002	0.3	0.000 000	0.000
	85%	+20	670 499 997	-4.4	-0.000 001	-0.007
	115%	+20	670 500 003	1.0	0.000 000	0.001
690.5	100 %	+20(Ref)	690 500 004	0.0	0.000 000	0.000
	100 %	-30	690 500 011	7.4	0.000 001	0.011
	100 %	-20	690 500 008	3.8	0.000 001	0.005
	100 %	-10	690 500 008	3.8	0.000 001	0.006
	100 %	0	690 500 008	3.9	0.000 001	0.006
	100 %	+10	690 500 008	3.9	0.000 001	0.006
	100 %	+30	690 500 008	3.9	0.000 001	0.006
	100 %	+40	690 500 011	7.4	0.000 001	0.011
	100 %	+50	690 500 008	3.9	0.000 001	0.006
	85%	+20	690 500 001	-2.8	0.000 000	-0.004
	115%	+20	690 500 006	1.9	0.000 000	0.003

- ☐ BandWidth: 20 MHz
☐ Voltage(100 %): 13.500 VDC
☐ LIMIT: Emission must remain in band

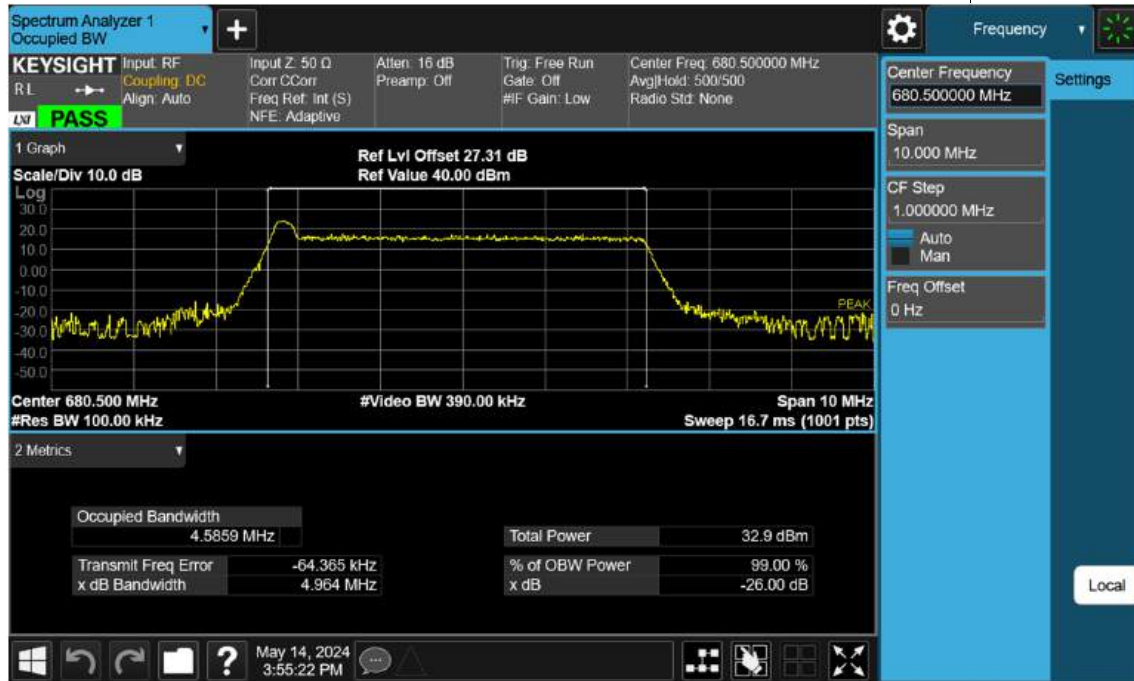
Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
673.0	100 %	+20(Ref)	672 999 999	0.0	0.000 000	0.000
	100 %	-30	672 999 995	-4.7	-0.000 001	-0.007
	100 %	-20	672 999 996	-3.7	-0.000 001	-0.006
	100 %	-10	672 999 998	-1.5	0.000 000	-0.002
	100 %	0	673 000 000	1.0	0.000 000	0.001
	100 %	+10	672 999 997	-2.3	0.000 000	-0.003
	100 %	+30	673 000 000	0.5	0.000 000	0.001
	100 %	+40	672 999 995	-4.5	-0.000 001	-0.007
	100 %	+50	672 999 997	-2.8	0.000 000	-0.004
	85%	+20	672 999 994	-4.9	-0.000 001	-0.007
	115%	+20	672 999 999	0.1	0.000 000	0.000
688.0	100 %	+20(Ref)	687 999 996	0.0	0.000 000	0.000
	100 %	-30	687 999 993	-3.5	-0.000 001	-0.005
	100 %	-20	687 999 990	-6.7	-0.000 001	-0.010
	100 %	-10	687 999 989	-6.9	-0.000 001	-0.010
	100 %	0	687 999 992	-3.9	-0.000 001	-0.006
	100 %	+10	687 999 992	-4.3	-0.000 001	-0.006
	100 %	+30	687 999 992	-4.3	-0.000 001	-0.006
	100 %	+40	687 999 995	-1.7	0.000 000	-0.002
	100 %	+50	687 999 991	-4.9	-0.000 001	-0.007
	85%	+20	687 999 995	-1.7	0.000 000	-0.002
	115%	+20	687 999 999	2.4	0.000 000	0.003

9. TEST PLOTS

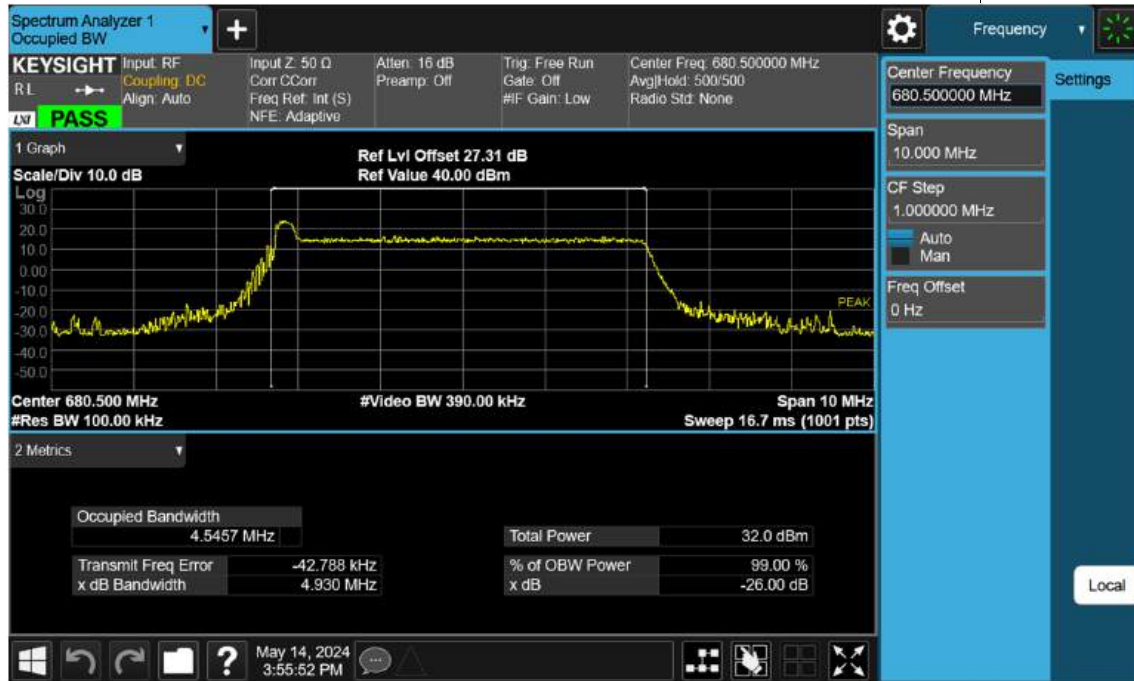
Sub6 n71. Occupied Bandwidth Plot (5 M BW Ch.136100 BPSK_Full RB)



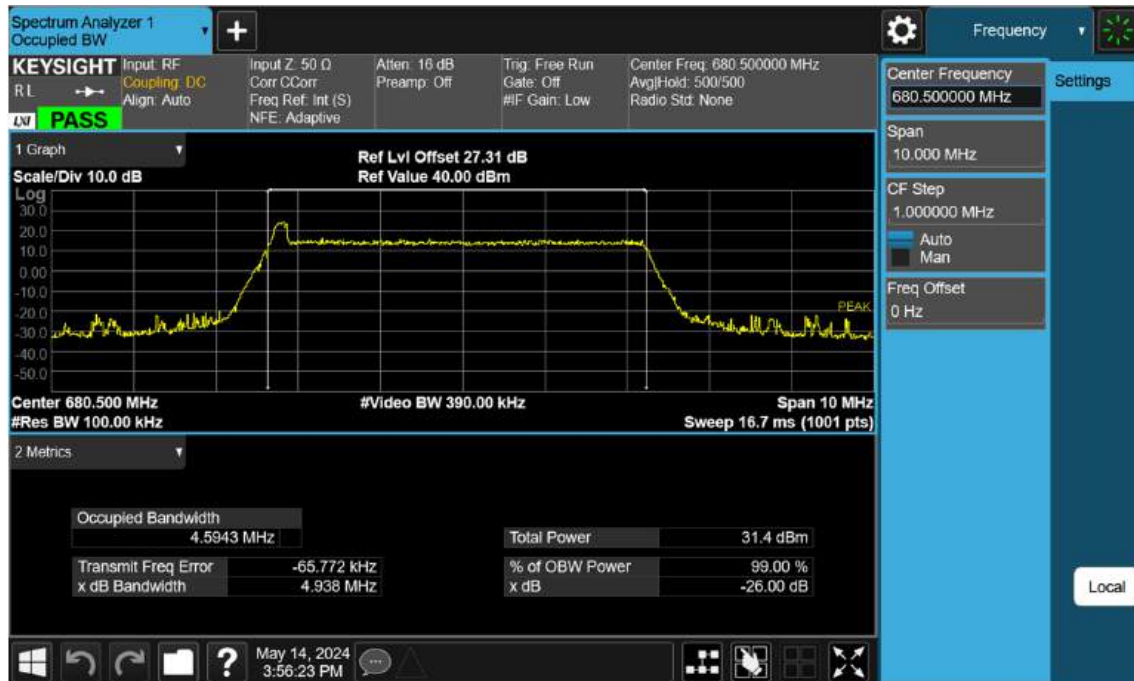
Sub6 n71. Occupied Bandwidth Plot (5 M BW Ch.136100 QPSK_ Full RB)



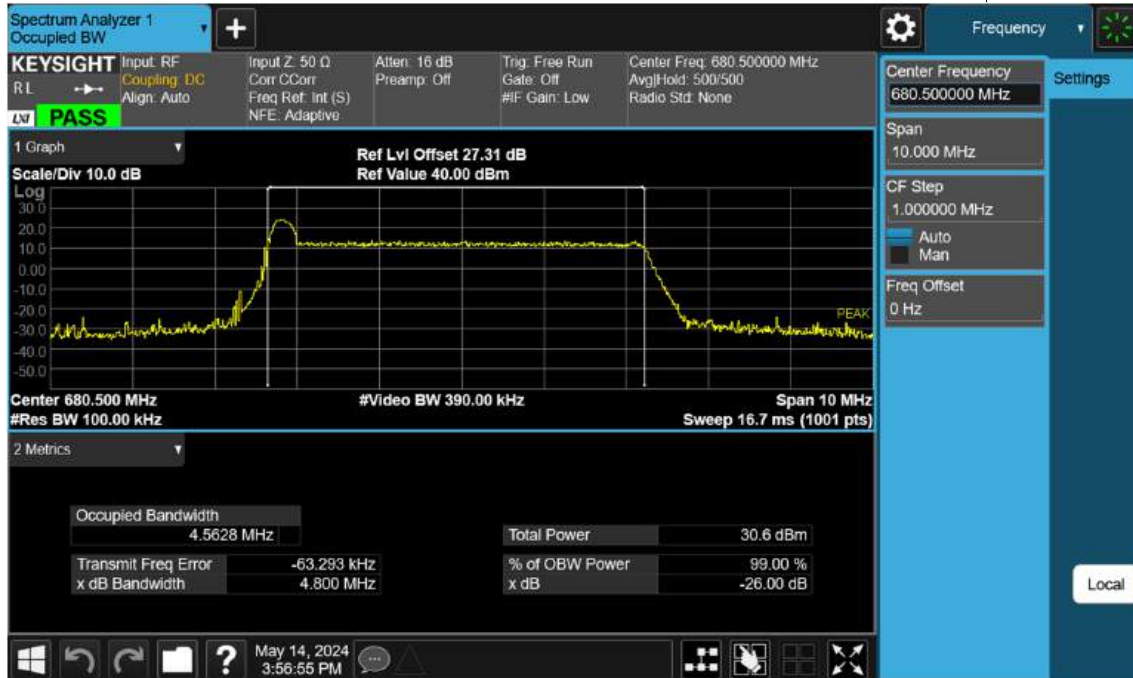
Sub6 n71. Occupied Bandwidth Plot (5 M BW Ch.136100 16 QAM_ Full RB)



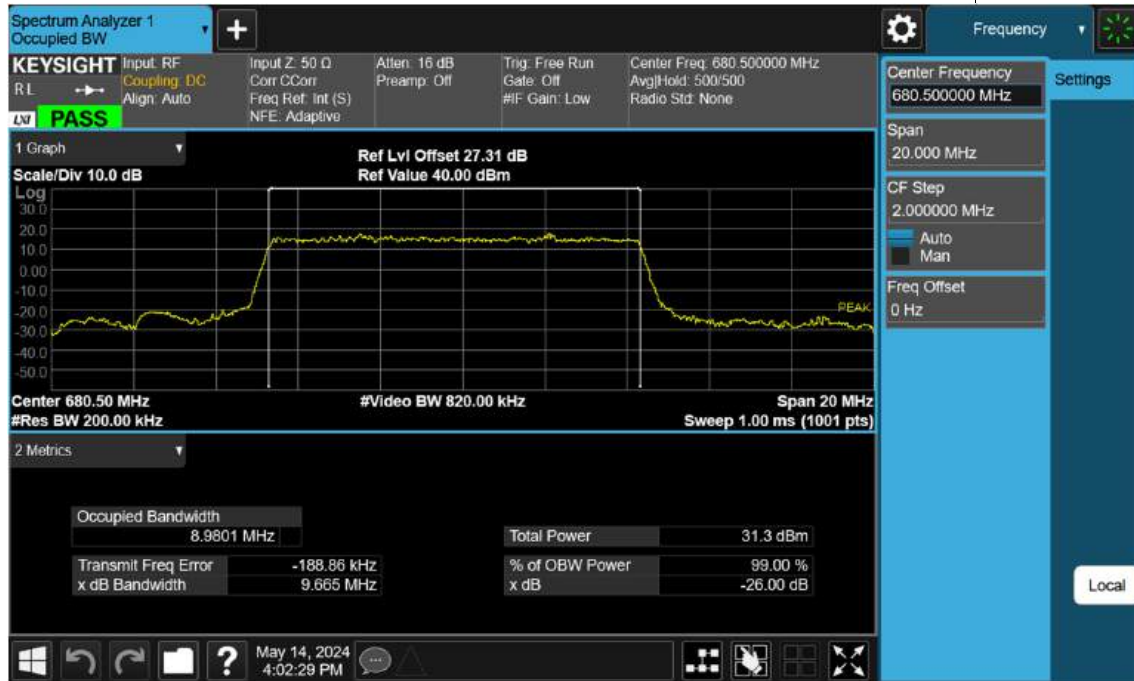
Sub6 n71. Occupied Bandwidth Plot (5 M BW Ch.136100 64 QAM_ Full RB)



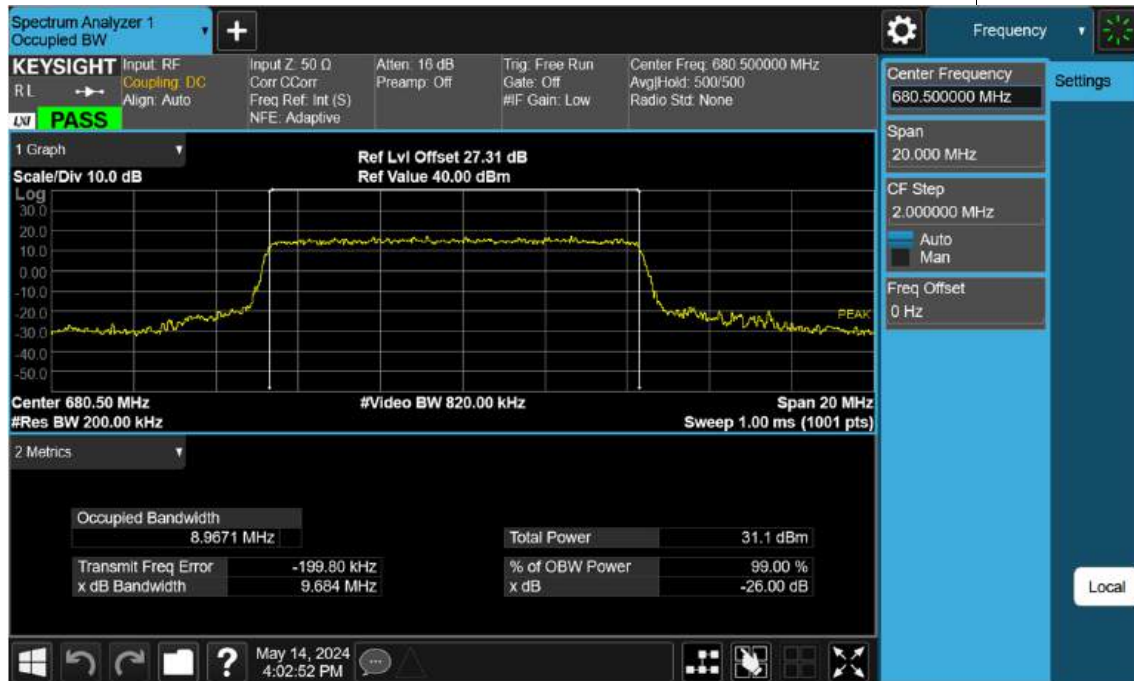
Sub6 n71. Occupied Bandwidth Plot (5 M BW Ch.136100 256 QAM_ Full RB)



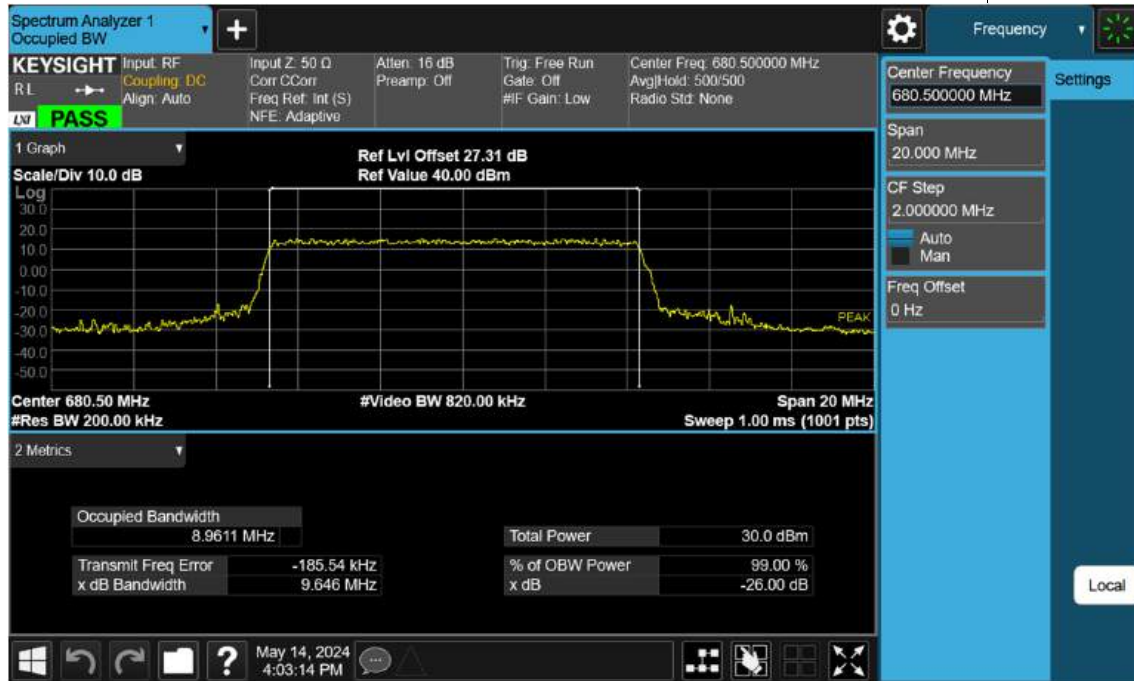
Sub6 n71. Occupied Bandwidth Plot (10 M BW Ch.136100 BPSK_ Full RB)



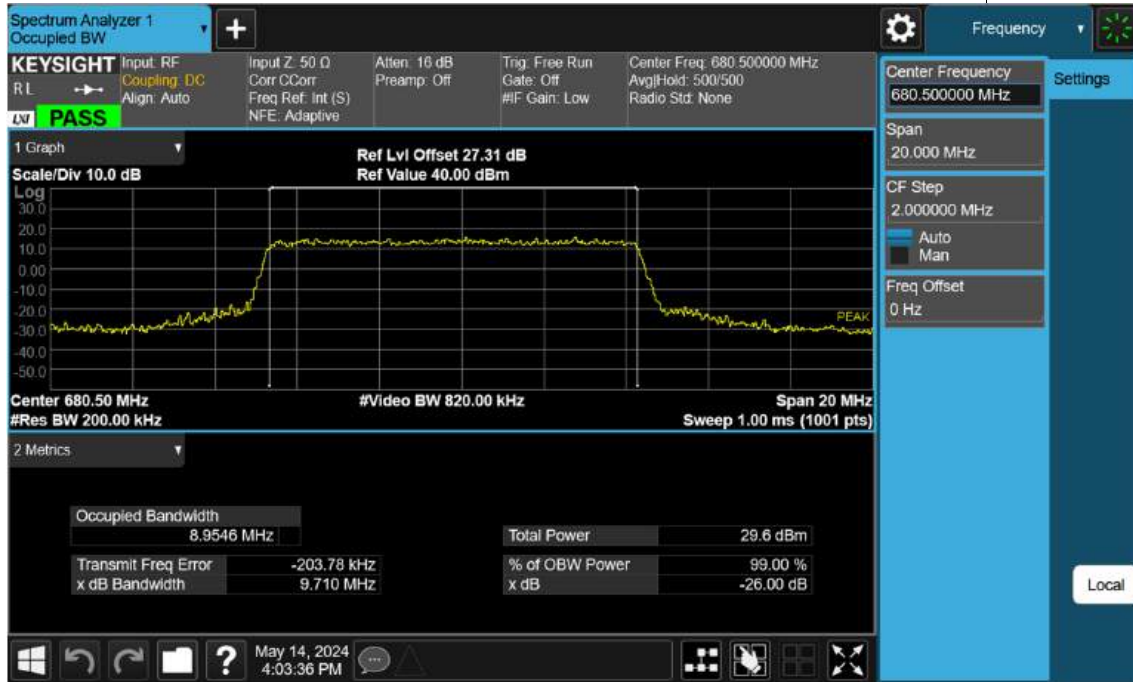
Sub6 n71. Occupied Bandwidth Plot (10 M BW Ch.136100 QPSK_ Full RB)



Sub6 n71. Occupied Bandwidth Plot (10 M BW Ch.136100 16 QAM_ Full RB)



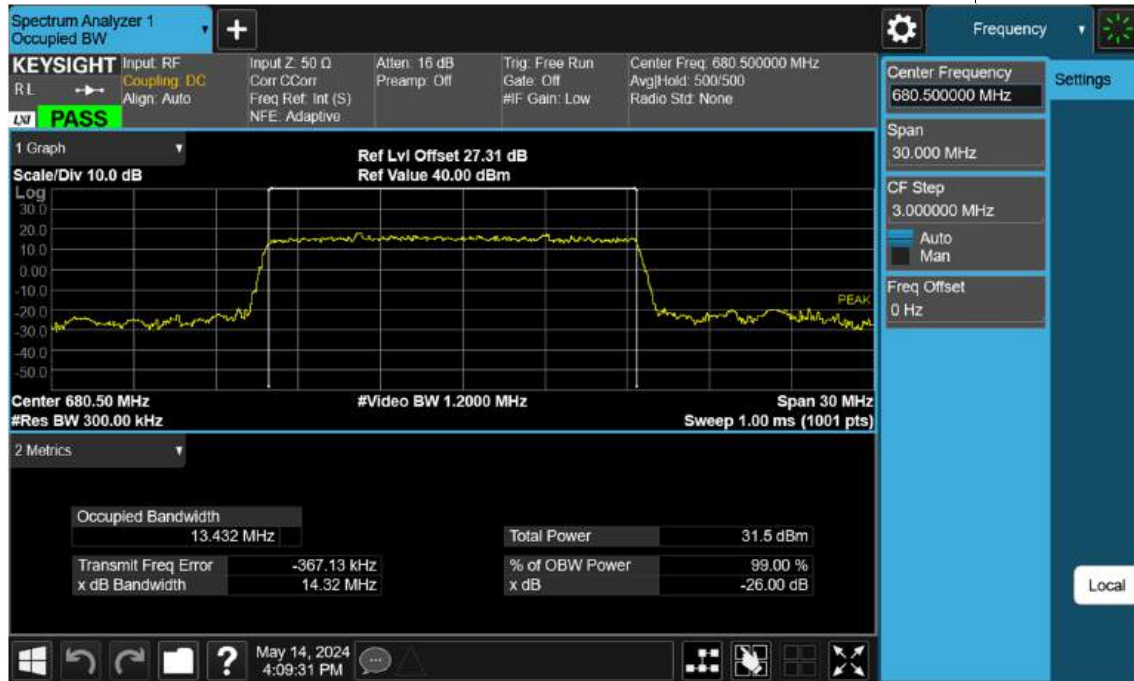
Sub6 n71. Occupied Bandwidth Plot (10 M BW Ch.136100 64 QAM_ Full RB)



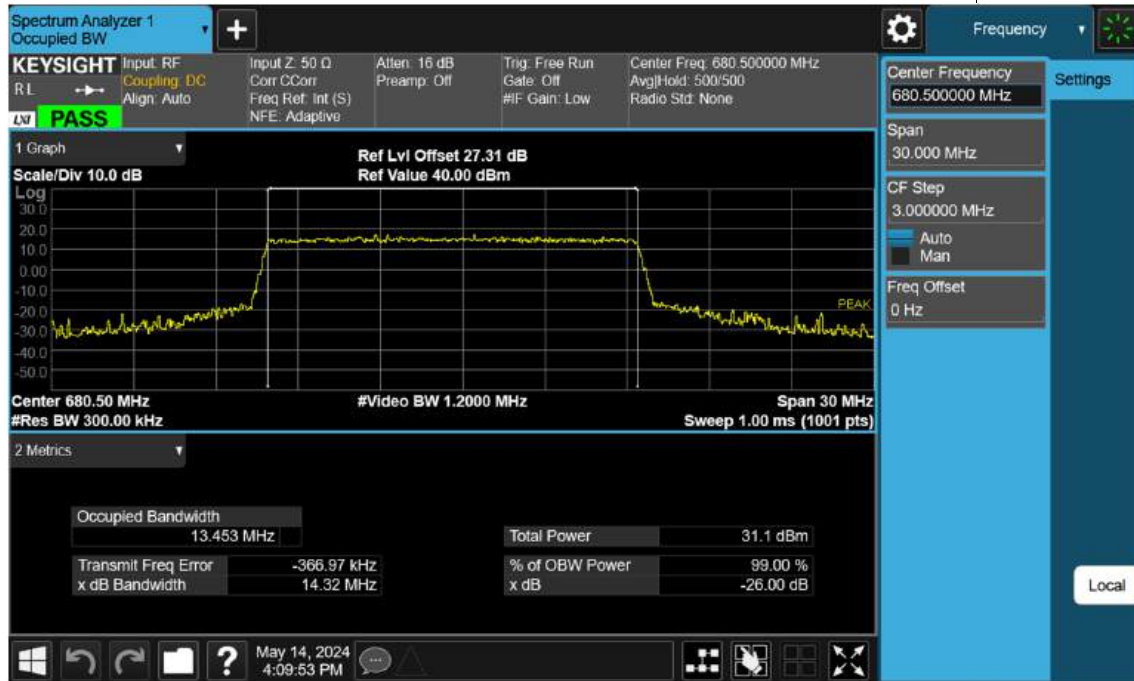
Sub6 n71. Occupied Bandwidth Plot (10 M BW Ch.136100 256 QAM_ Full RB)



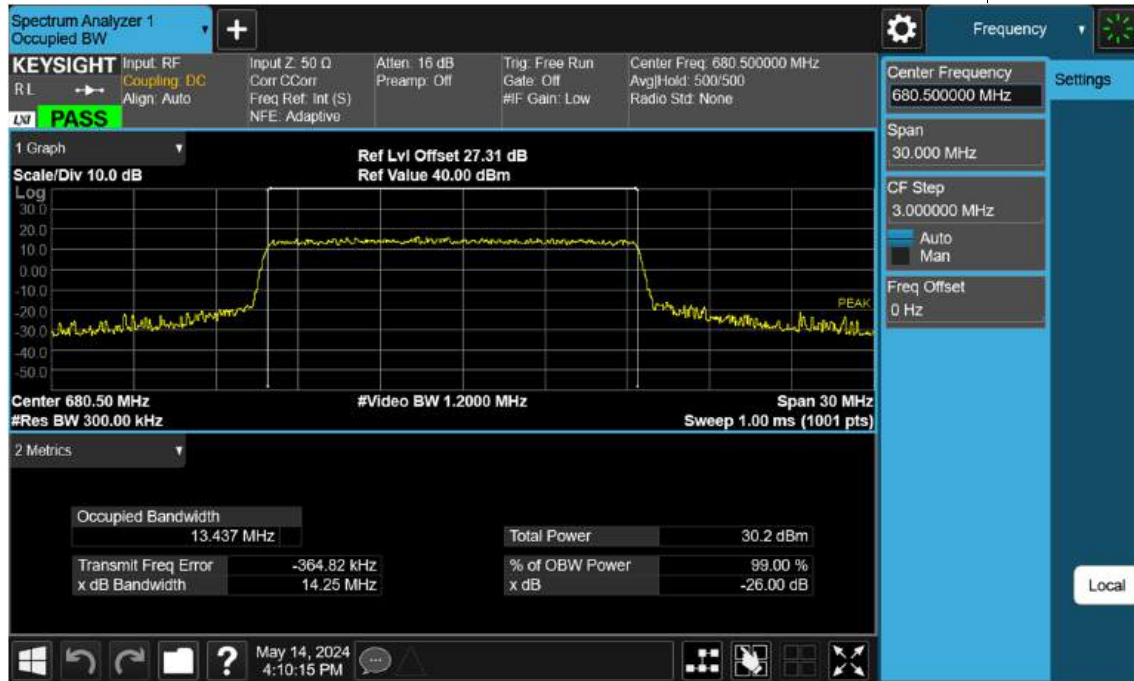
Sub6 n71. Occupied Bandwidth Plot (15 M BW Ch.136100 BPSK_ Full RB)



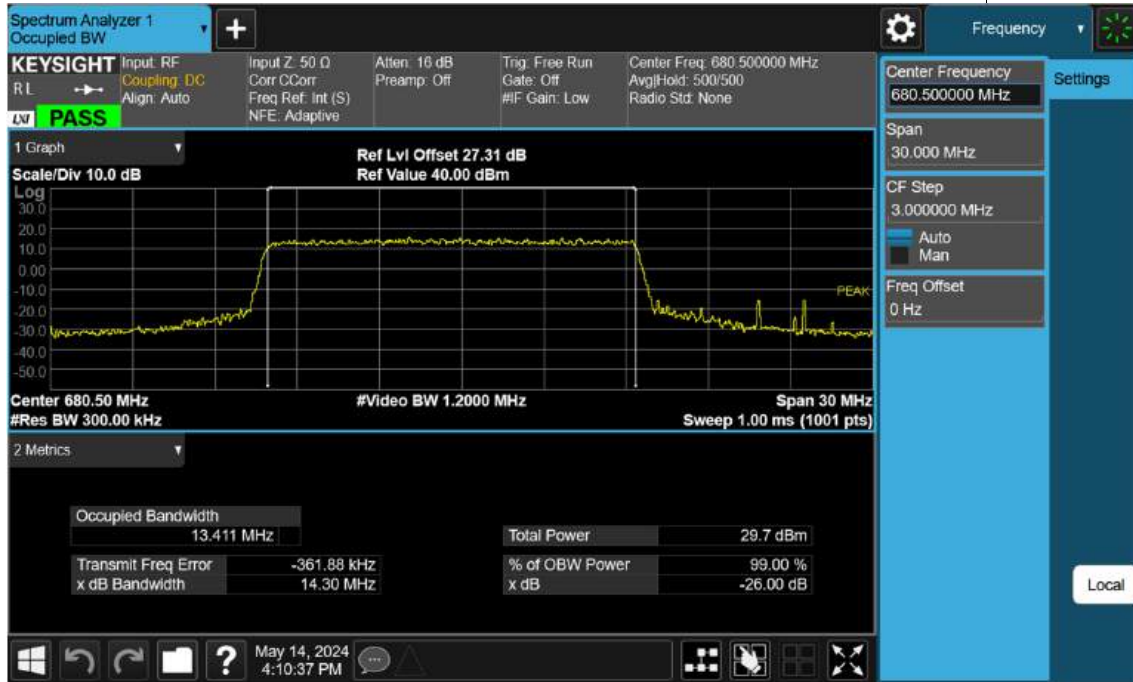
Sub6 n71. Occupied Bandwidth Plot (15 M BW Ch.136100 QPSK_ Full RB)



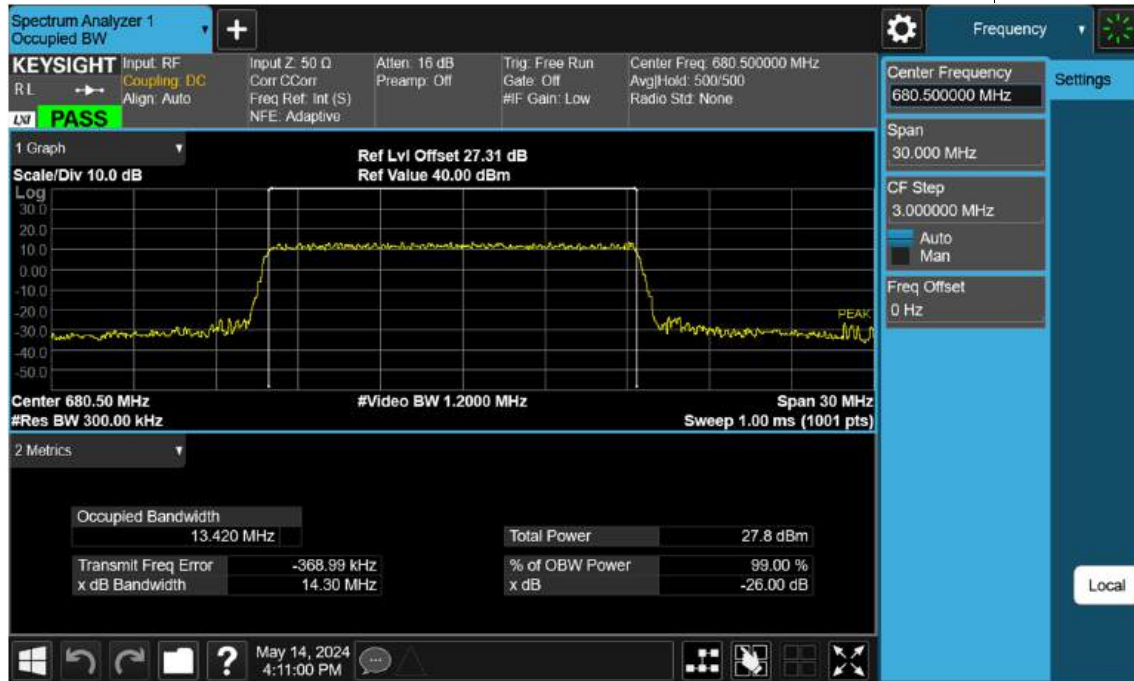
Sub6 n71. Occupied Bandwidth Plot (15 M BW Ch.136100 16 QAM_ Full RB)



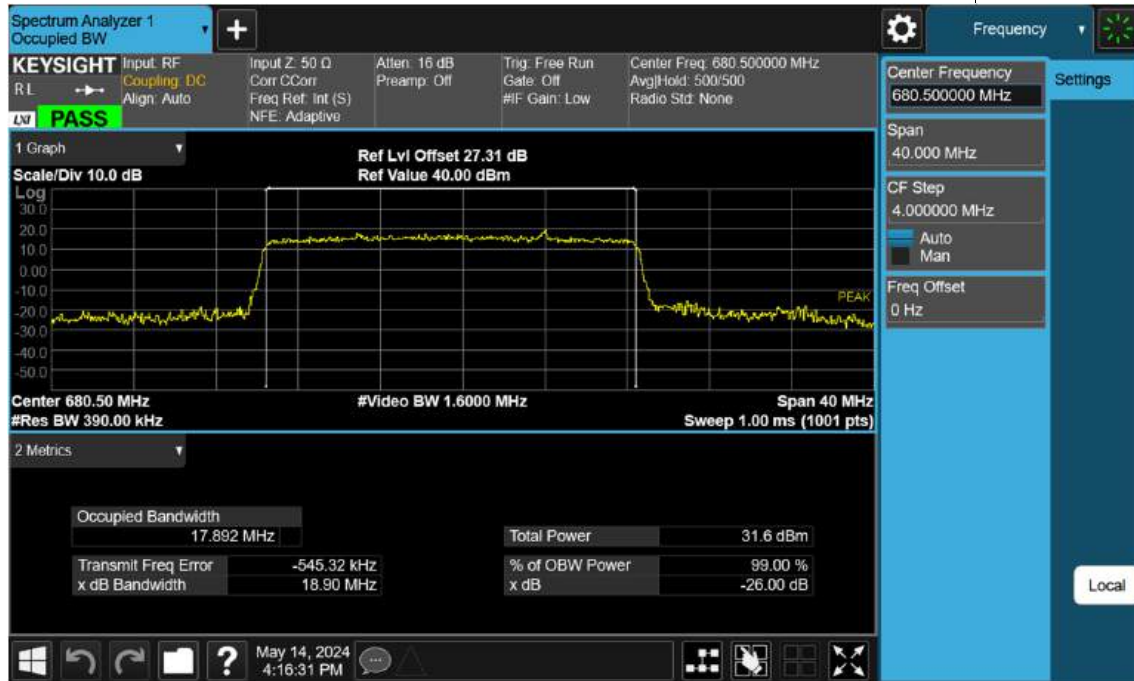
Sub6 n71. Occupied Bandwidth Plot (15 M BW Ch.136100 64 QAM_ Full RB)



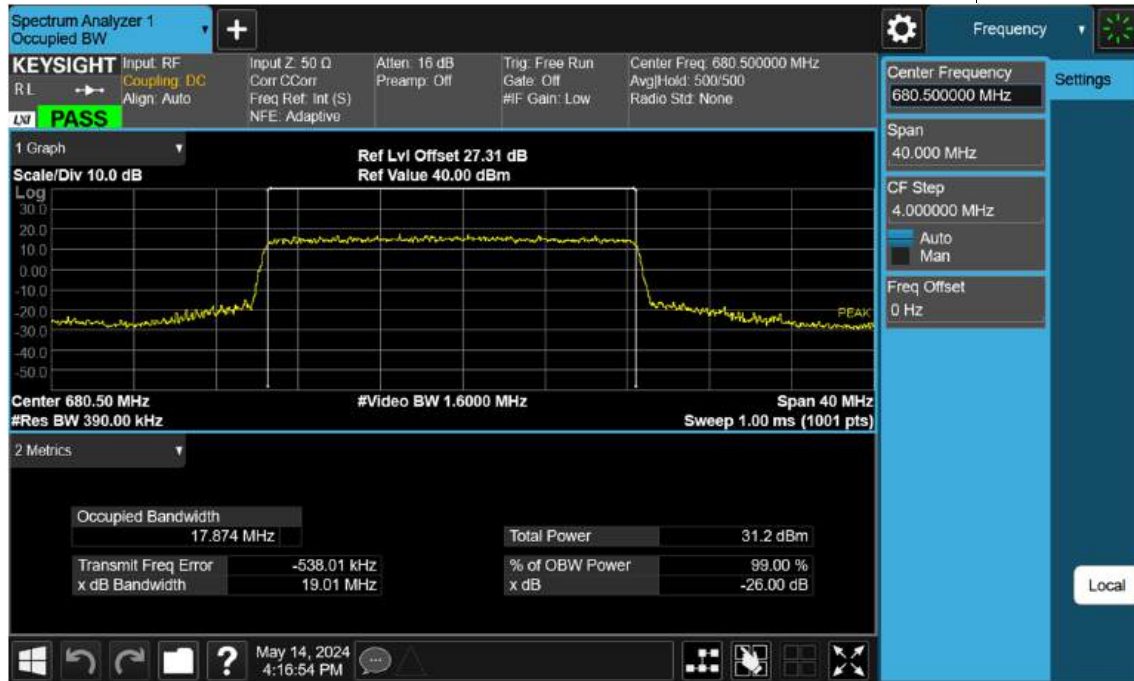
Sub6 n71. Occupied Bandwidth Plot (15 M BW Ch.136100 256 QAM_ Full RB)



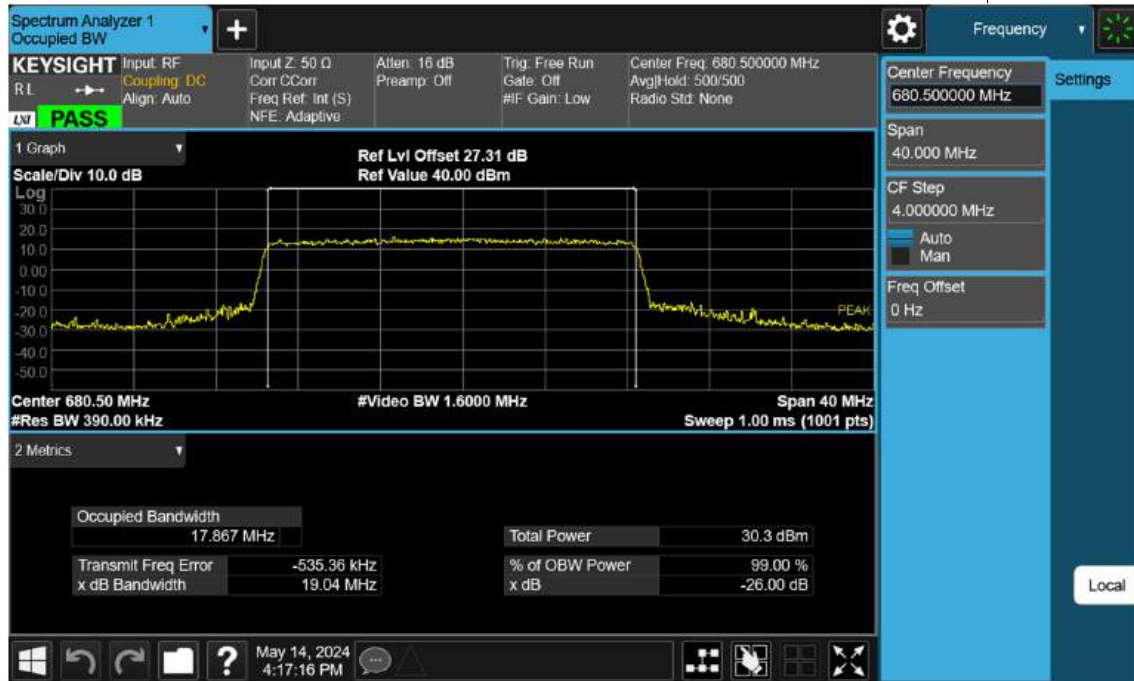
Sub6 n71. Occupied Bandwidth Plot (20 M BW Ch.136100 BPSK_ Full RB)



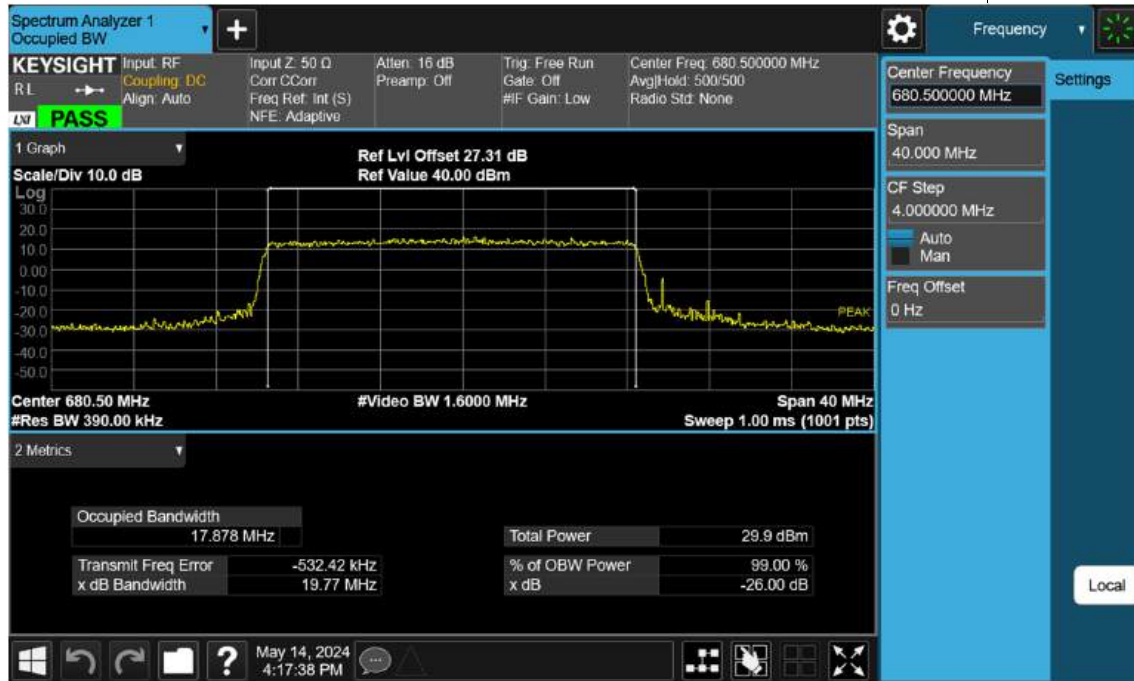
Sub6 n71. Occupied Bandwidth Plot (20 M BW Ch.136100 QPSK_ Full RB)



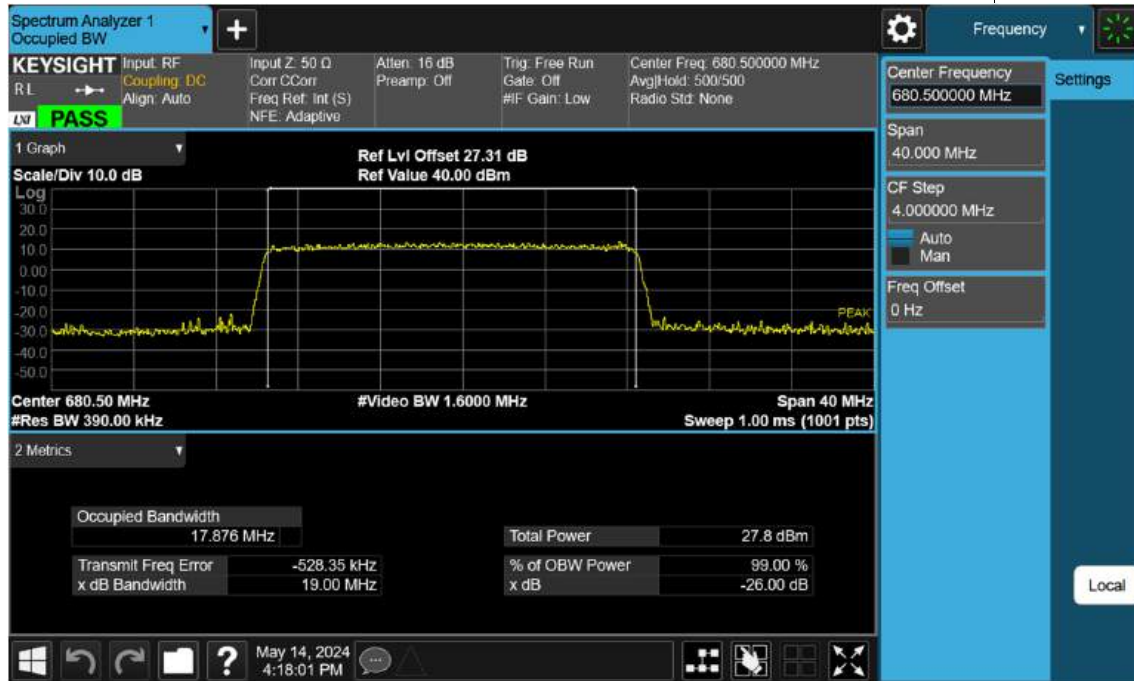
Sub6 n71. Occupied Bandwidth Plot (20 M BW Ch.136100 16 QAM_ Full RB)



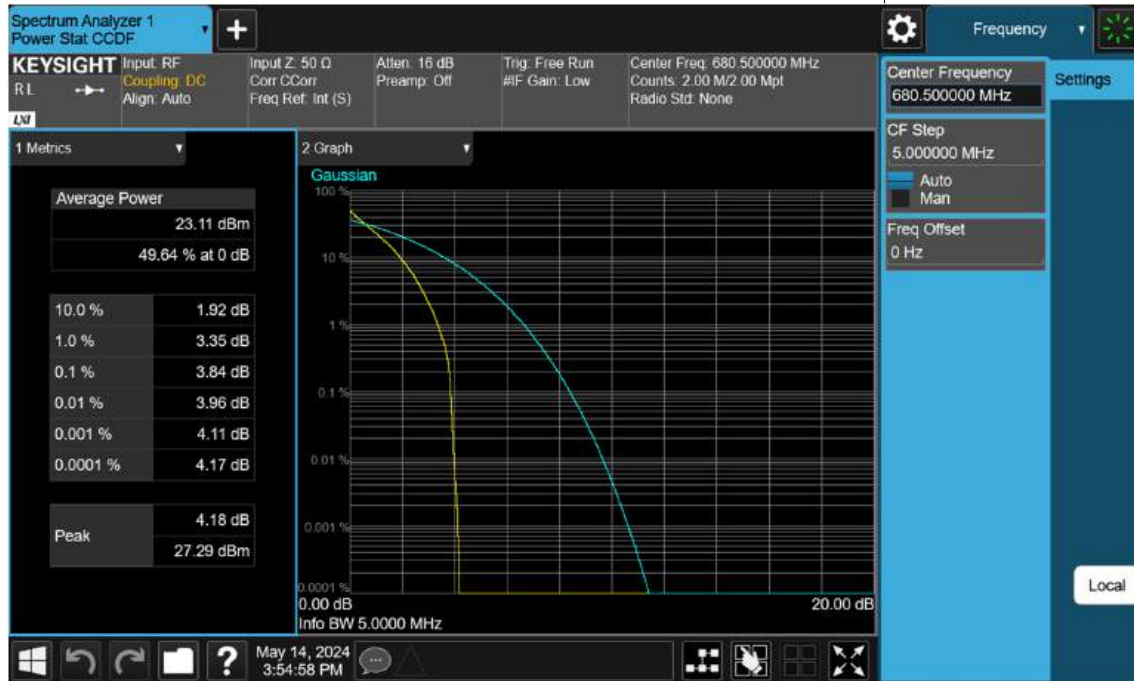
Sub6 n71. Occupied Bandwidth Plot (20 M BW Ch.136100 64 QAM_ Full RB)



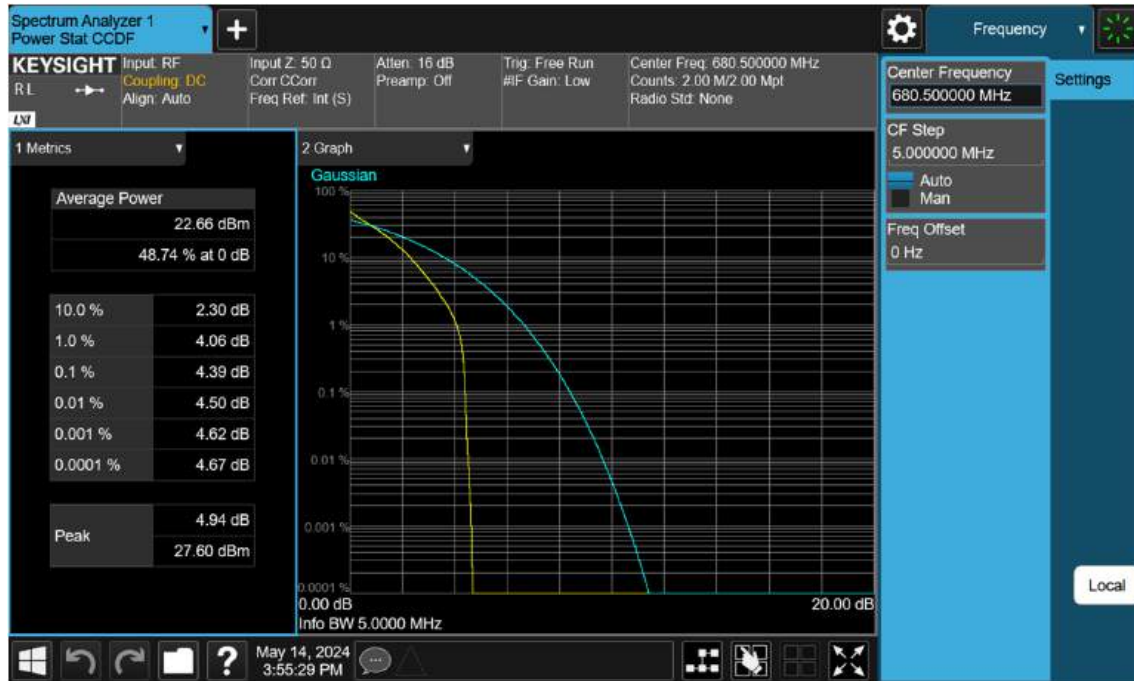
Sub6 n71. Occupied Bandwidth Plot (20 M BW Ch.136100 256 QAM_ Full RB)



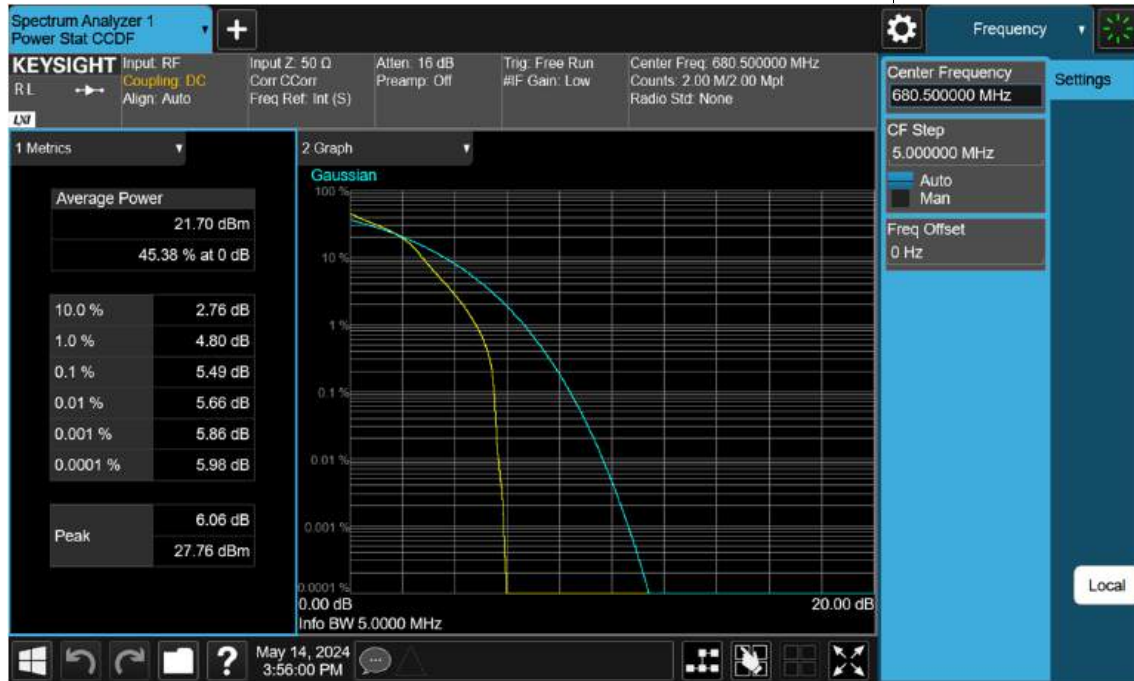
Sub6 n71. PAR Plot (5 M BW_Ch.349000_ BPSK_ Full RB)



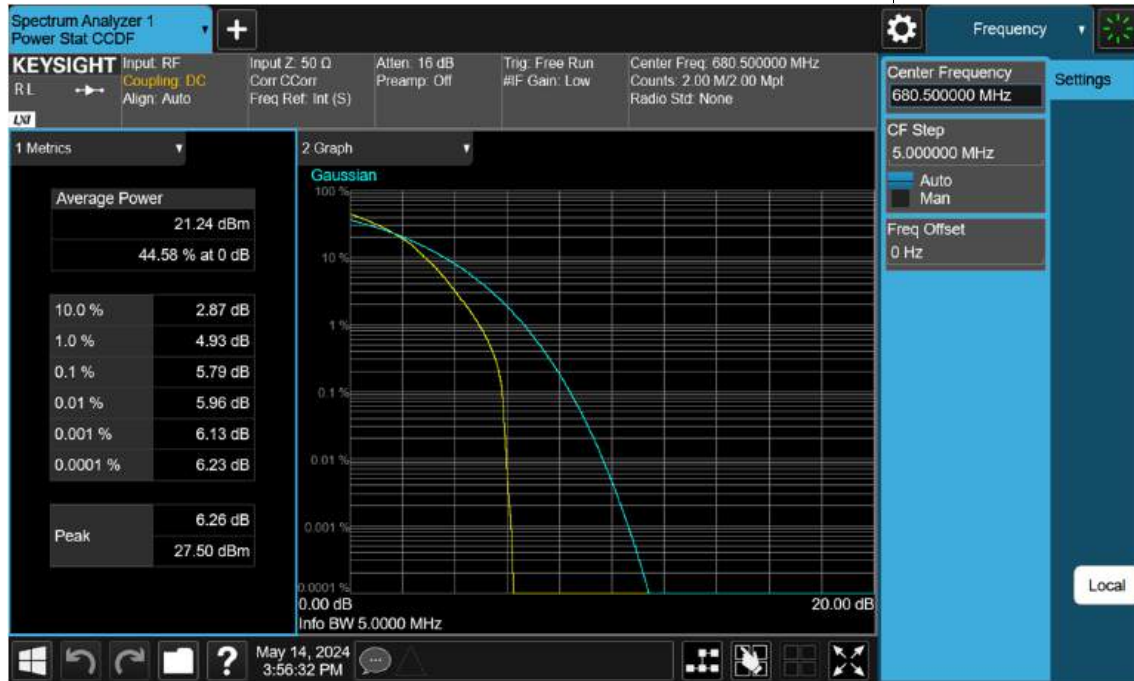
Sub6 n71. PAR Plot (5 M BW_Ch.349000_QPSK_Full RB)



Sub6 n71. PAR Plot (5 M BW_Ch.349000_16 QAM_Full RB)



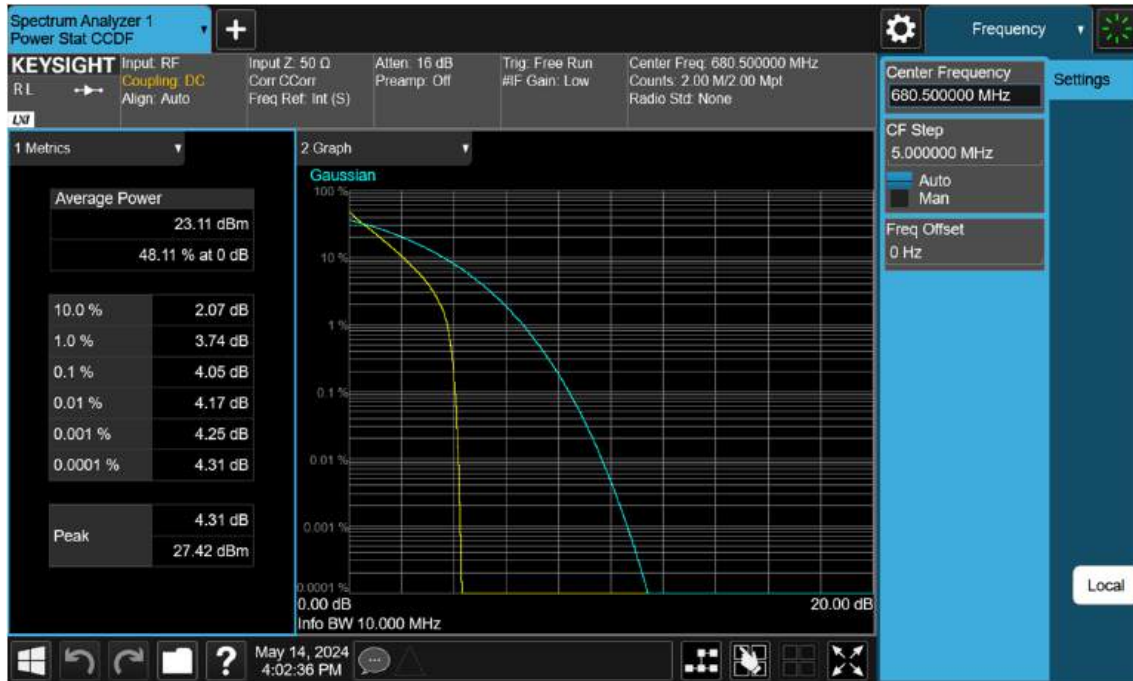
Sub6 n71. PAR Plot (5 M BW_Ch.349000_64 QAM_Full RB)



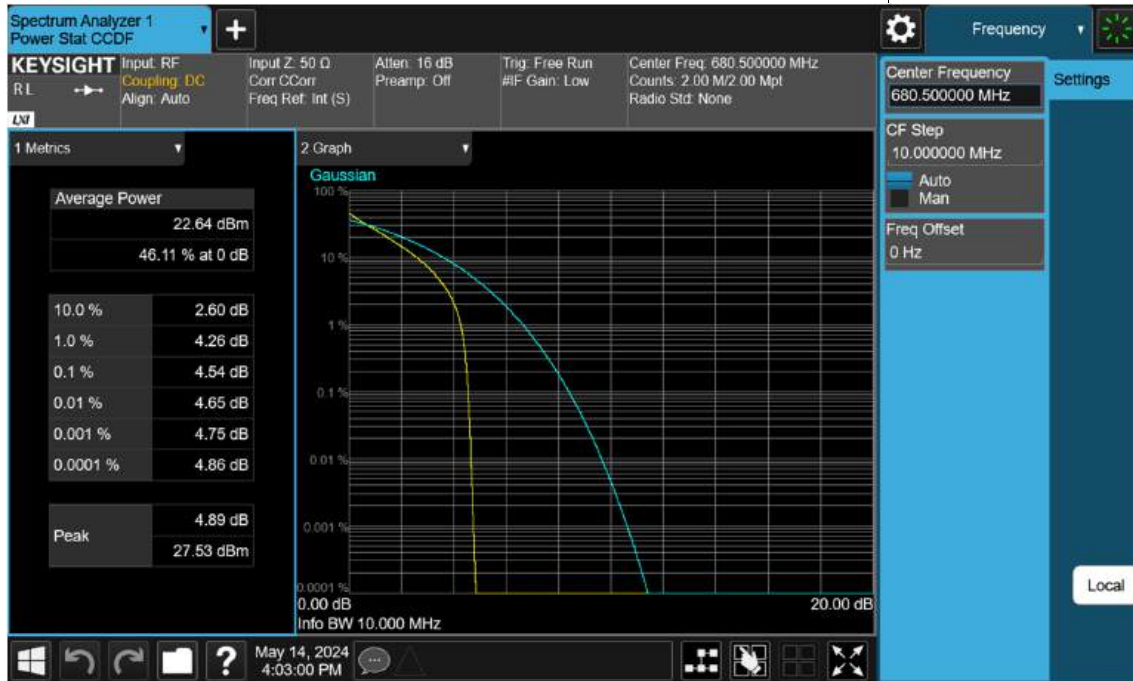
Sub6 n71. PAR Plot (5 M BW_Ch.349000_256 QAM_Full RB)



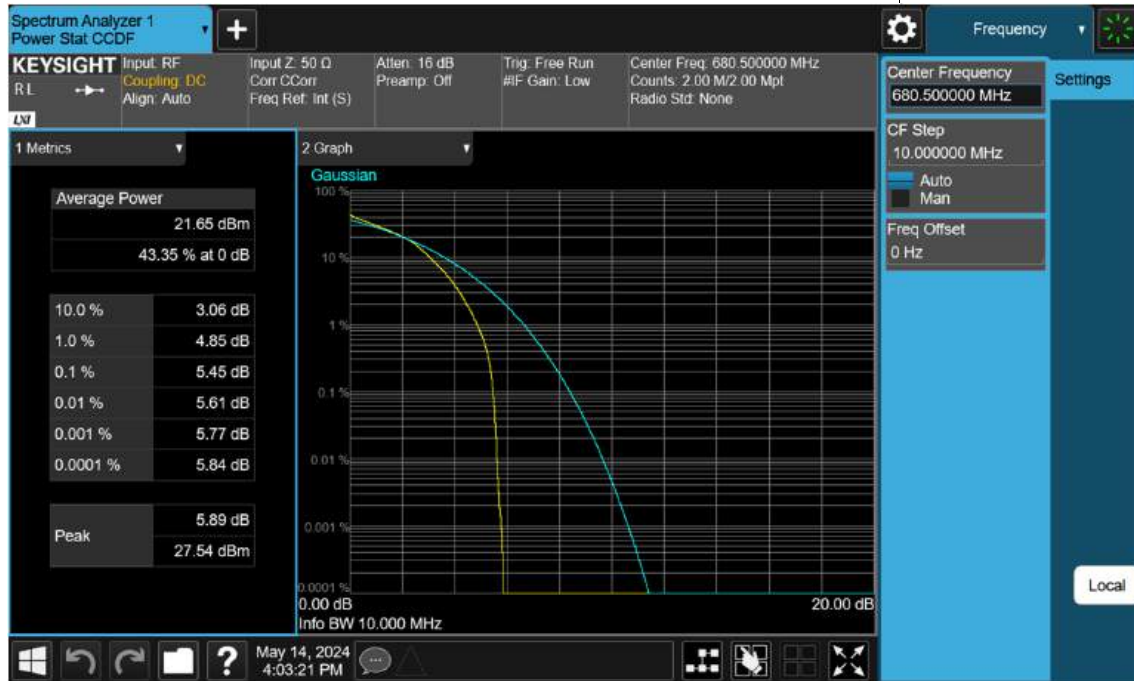
Sub6 n71. PAR Plot (10 M BW_Ch.349000_ BPSK_ Full RB)



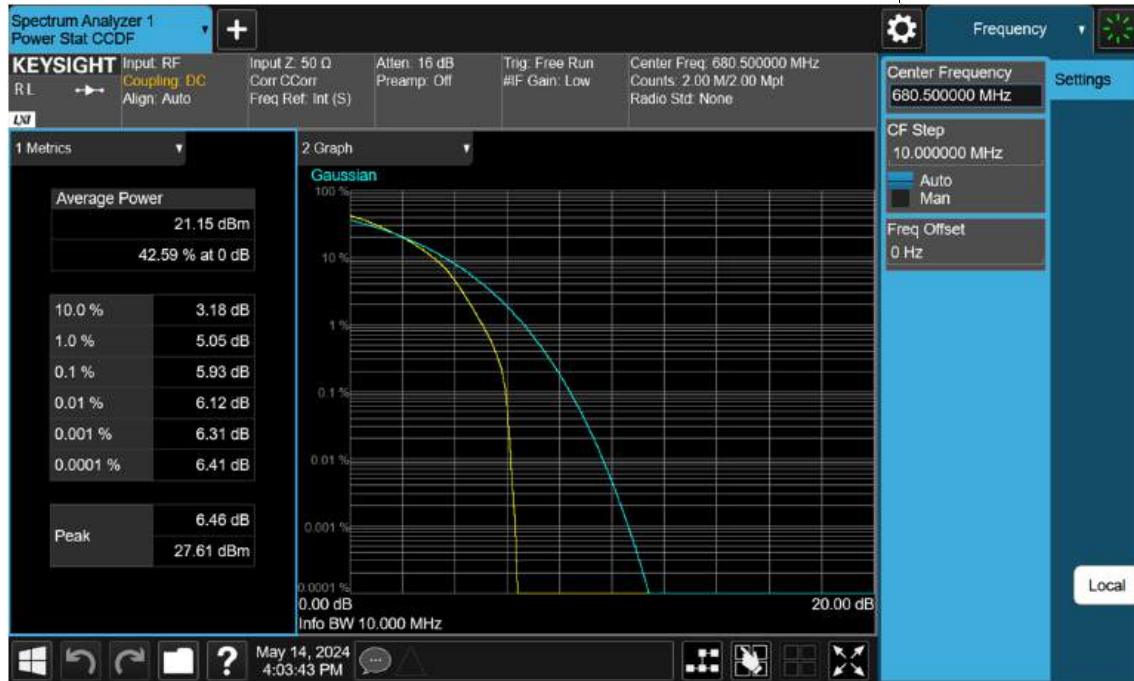
Sub6 n71. PAR Plot (10 M BW_Ch.349000_QPSK_Full RB)



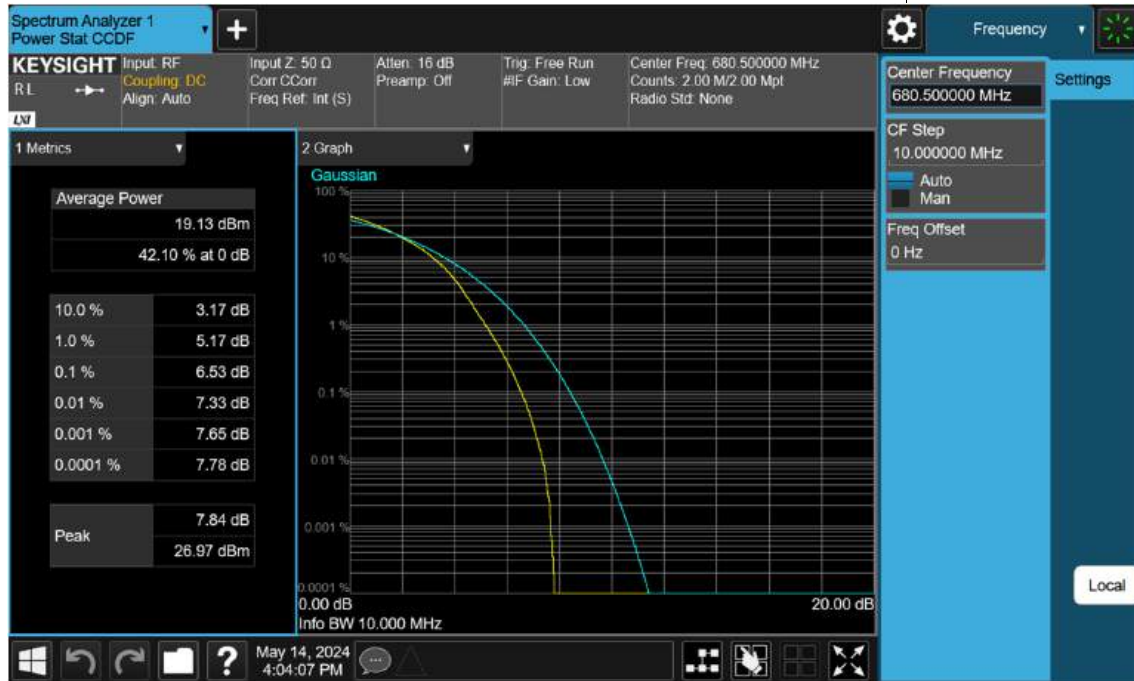
Sub6 n71. PAR Plot (10 M BW_Ch.349000_16 QAM_Full RB)



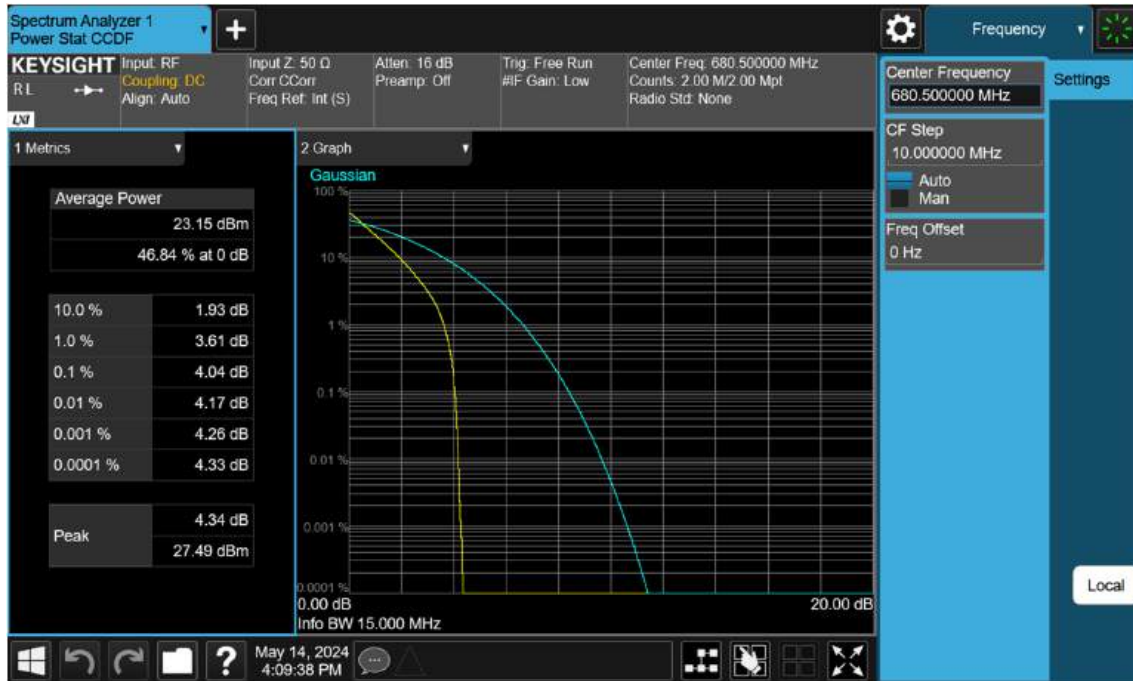
Sub6 n71. PAR Plot (10 M BW_Ch.349000_64 QAM_Full RB)



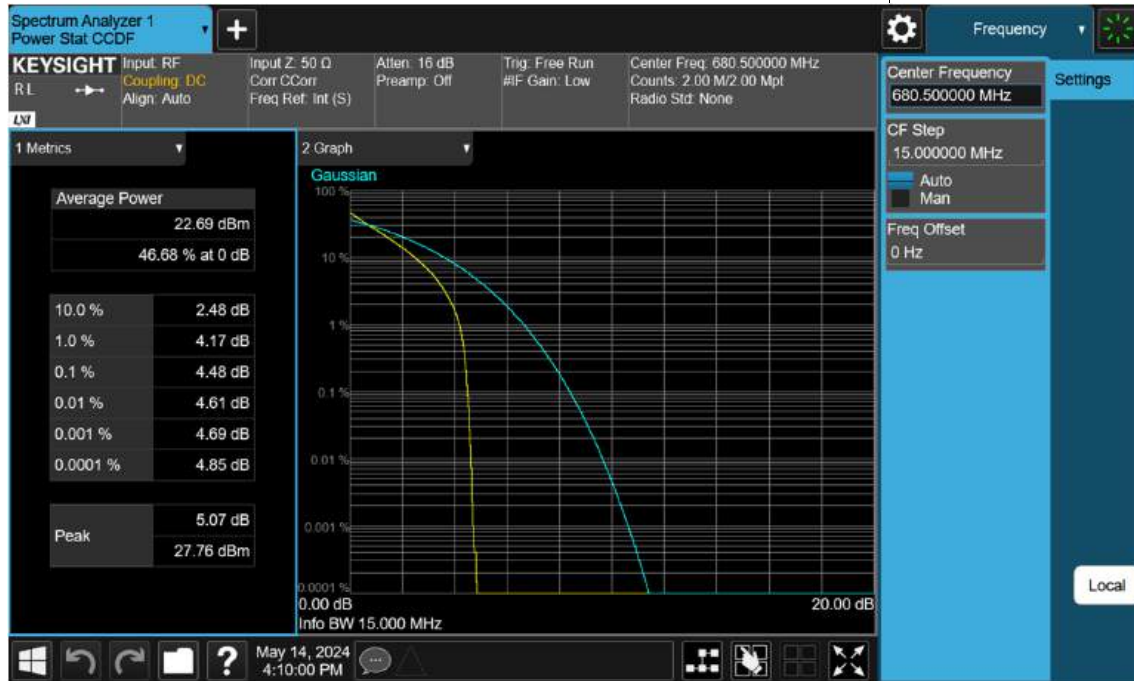
Sub6 n71. PAR Plot (10 M BW_Ch.349000_256 QAM_Full RB)



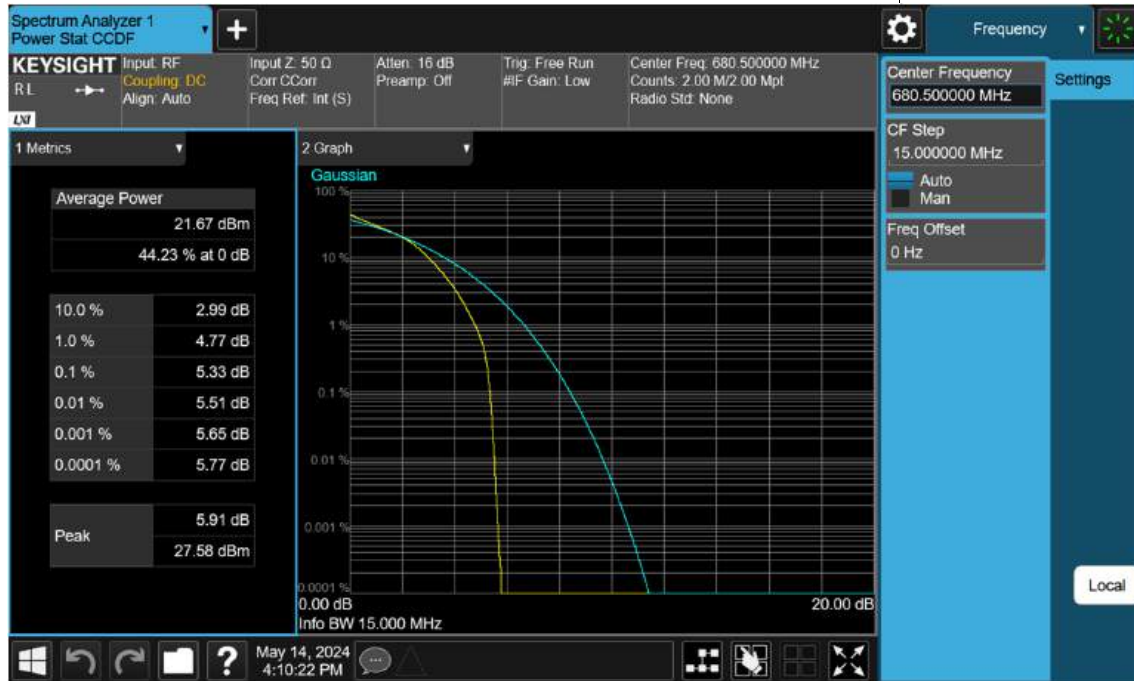
Sub6 n71. PAR Plot (15 M BW_Ch.349000_ BPSK_ Full RB)



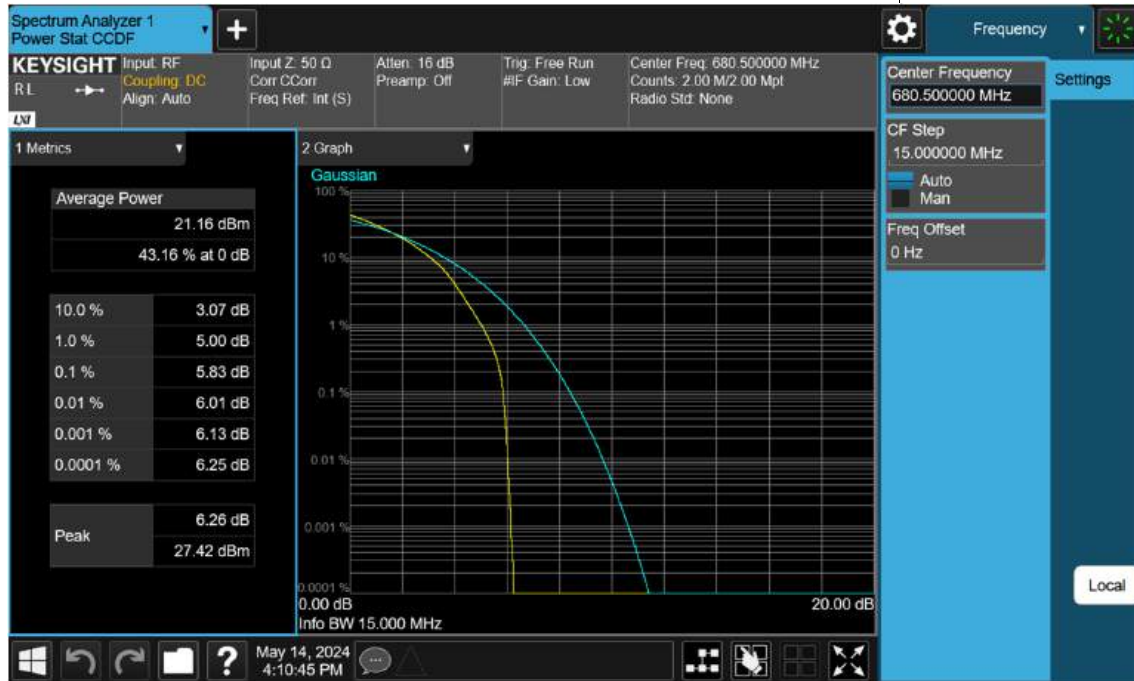
Sub6 n71. PAR Plot (15 M BW_Ch.349000_QPSK_Full RB)



Sub6 n71. PAR Plot (15 M BW_Ch.349000_16 QAM_Full RB)



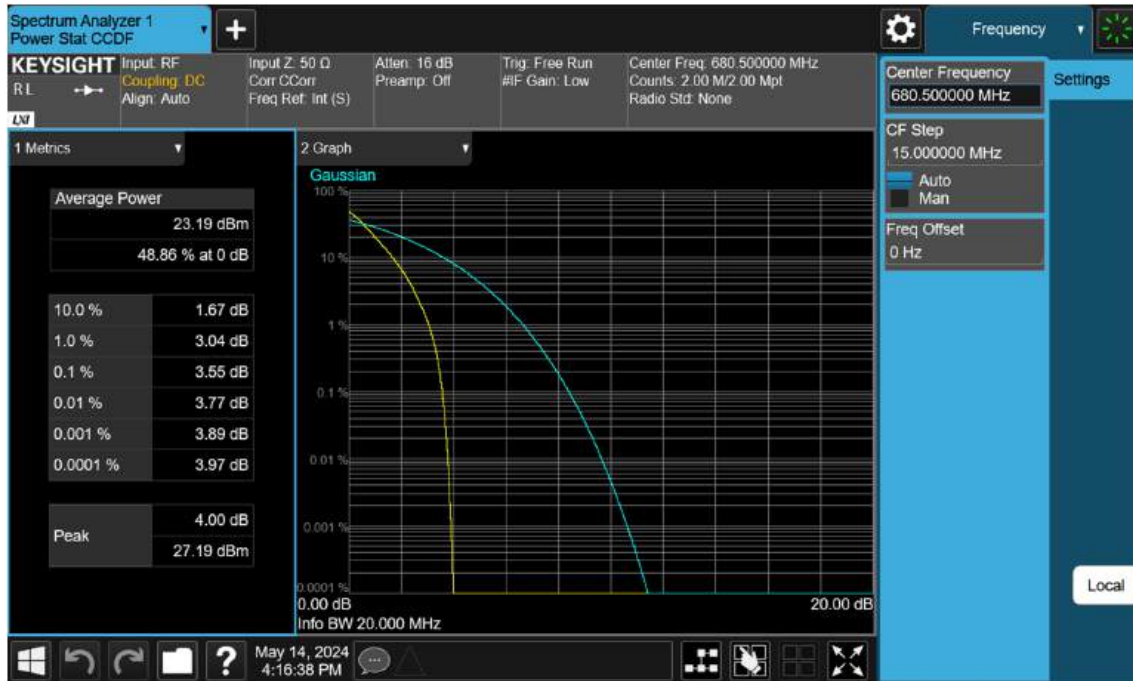
Sub6 n71. PAR Plot (15 M BW_Ch.349000_64 QAM_Full RB)



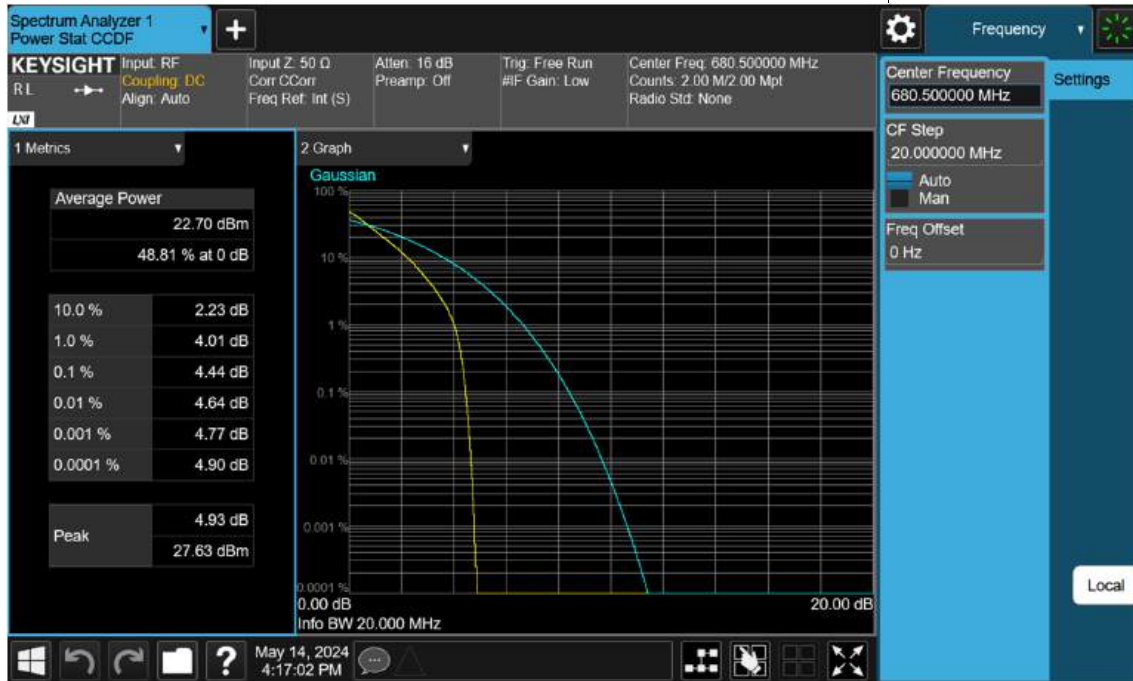
Sub6 n71. PAR Plot (15 M BW_Ch.349000_256 QAM_Full RB)



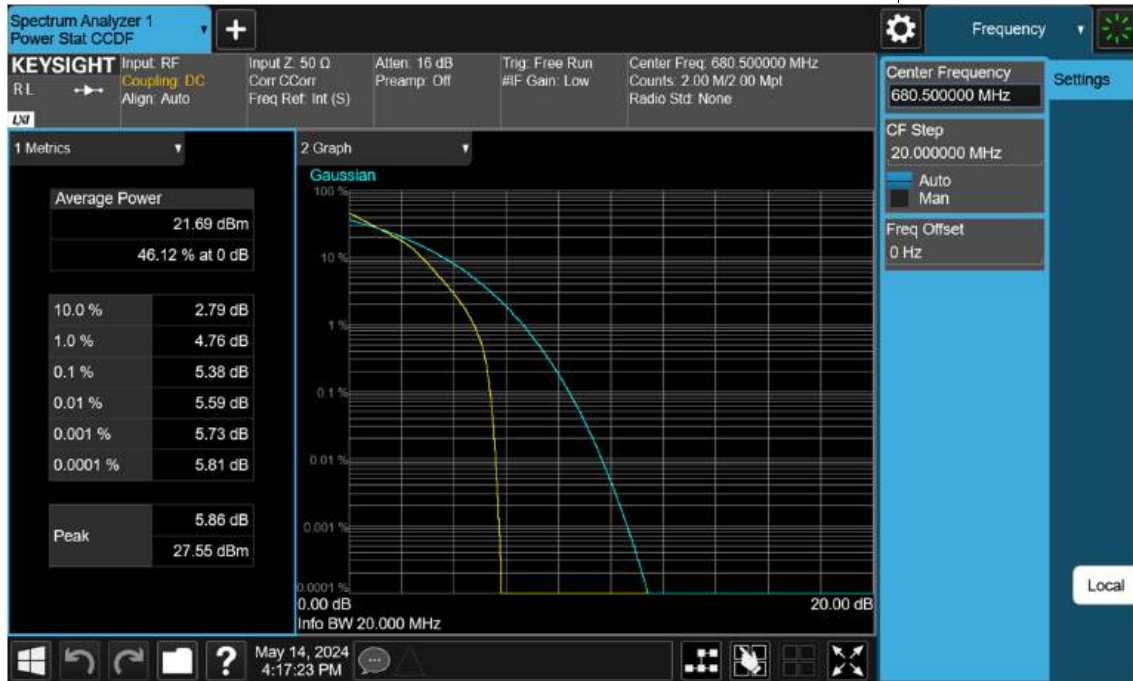
Sub6 n71. PAR Plot (20 M BW_Ch.349000_ BPSK_ Full RB)



Sub6 n71. PAR Plot (20 M BW_Ch.349000_QPSK_Full RB)



Sub6 n71. PAR Plot (20 M BW_Ch.349000_16 QAM_Full RB)



Sub6 n71. PAR Plot (20 M BW_Ch.349000_64 QAM_Full RB)



Sub6 n71. PAR Plot (20 M BW_Ch.349000_256 QAM_Full RB)



Sub6 n71. Lower Band Edge Plot (5 M BW Ch.133100 BPSK_RB1_Offset 0)_1



Sub6 n71. Lower Band Edge Plot (5 M BW Ch.133100 BPSK_RB1_Offset 0)_2



Sub6 n71. Lower Band Edge Plot (5 M BW Ch.133100 BPSK_ Full RB)



Sub6 n71. Lower Extended Band Edge Plot (5 M BW Ch.133100 BPSK_ Full RB)



Sub6 n71. Lower Band Edge Plot (10 M BW Ch.133600 BPSK_RB1_Offset 0)_1



Sub6 n71. Lower Band Edge Plot (10 M BW Ch.133600 BPSK_RB1_Offset 0)_2



Sub6 n71. Lower Band Edge Plot (10 M BW Ch.133600 BPSK_ Full RB)



Sub6 n71. Lower Extended Band Edge Plot (10 M BW Ch.133600 BPSK_ Full RB)



Sub6 n71. Lower Band Edge Plot (15 M BW Ch.134100 BPSK_RB1_Offset 0)_1



Sub6 n71. Lower Band Edge Plot (15 M BW Ch.134100 BPSK_RB1_Offset 0)_2



Sub6 n71. Lower Band Edge Plot (15 M BW Ch.134100 BPSK_ Full RB)



Sub6 n71. Lower Extended Band Edge Plot (15 M BW Ch.134100 BPSK_ Full RB)



Sub6 n71. Lower Band Edge Plot (20 M BW Ch.134600 BPSK_RB1_Offset 0)_1



Sub6 n71. Lower Band Edge Plot (20 M BW Ch.134600 BPSK_RB1_Offset 0)_2



Sub6 n71. Lower Band Edge Plot (20 M BW Ch.134600 BPSK_ Full RB)



Sub6 n71. Lower Extended Band Edge Plot (20 M BW Ch.134600 BPSK_ Full RB)



Sub6 n71. Upper Band Edge Plot (5 M BW Ch.139100 BPSK_RB1_Offset 24)_1



Sub6 n71. Upper Band Edge Plot (5 M BW Ch.139100 BPSK_RB1_Offset 24)_2



Sub6 n71. Upper Band Edge Plot (5 M BW Ch.139100 BPSK_ Full RB)



Sub6 n71. Upper Extended Band Edge Plot (5 M BW Ch.139100 BPSK_ Full RB)



Sub6 n71. Upper Band Edge Plot (10 M BW Ch.138600 BPSK_RB1_Offset 51)-1



Sub6 n71. Upper Band Edge Plot (10 M BW Ch.138600 BPSK_RB1_Offset 51)-2



Sub6 n71. Upper Band Edge Plot (10 M BW Ch.138600 BPSK_ Full RB)



Sub6 n71. Upper Extended Band Edge Plot (10 M BW Ch.138600 BPSK_ Full RB)



Sub6 n71. Upper Band Edge Plot (15 M BW Ch.138100 BPSK_RB1_Offset 78)_1



Sub6 n71. Upper Band Edge Plot (15 M BW Ch.138100 BPSK_RB1_Offset 78)_2



Sub6 n71. Upper Band Edge Plot (15 M BW Ch.138100 BPSK_ Full RB)



Sub6 n71. Upper Extended Band Edge Plot (15 M BW Ch.138100 BPSK_ Full RB)



Sub6 n71. Upper Band Edge Plot (20 M BW Ch.137600 BPSK_RB1_Offset 105)_1



Sub6 n71. Upper Band Edge Plot (20 M BW Ch.137600 BPSK_RB1_Offset 105)_2



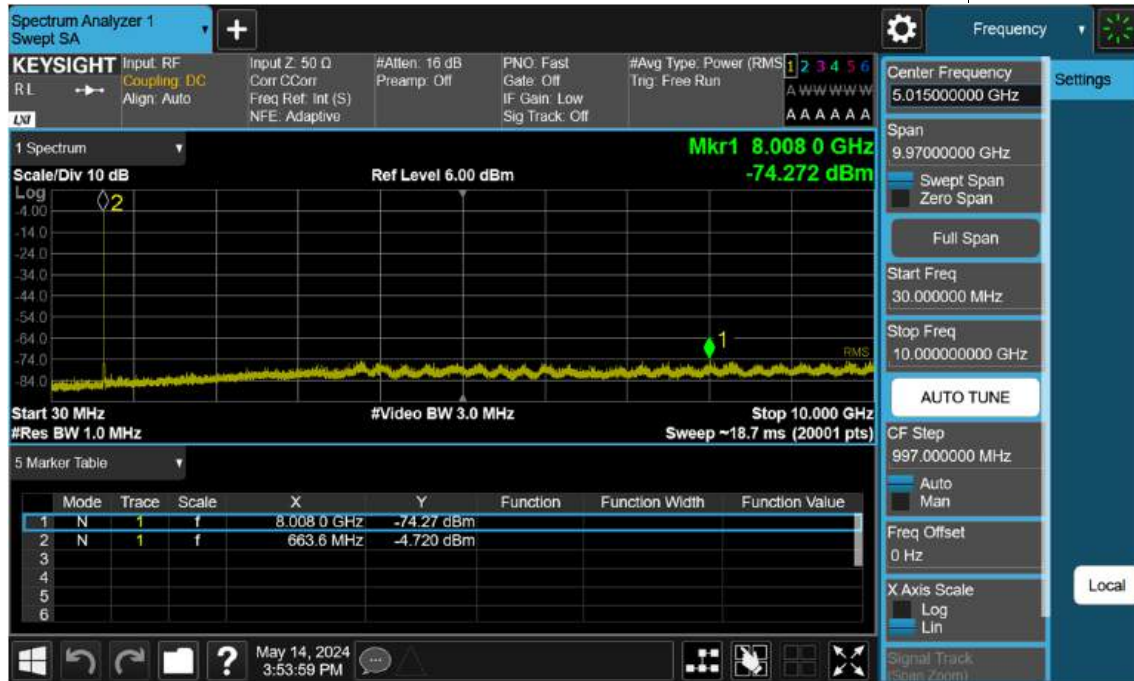
Sub6 n71. Upper Band Edge Plot (20 M BW Ch.137600 BPSK_ Full RB)



Sub6 n71. Upper Extended Band Edge Plot (20 M BW Ch.137600 BPSK_ Full RB)



Sub6 n71. Conducted Spurious Plot _ (133100ch_5 MHz_BPSK_RB 1_1)



Sub6 n71. Conducted Spurious Plot _ (136100ch_5 MHz_BPSK_RB 1_1)



Sub6 n71. Conducted Spurious Plot _ (139100ch_5 MHz_BPSK_RB 1_1)



Sub6 n71. Conducted Spurious Plot _ (133600ch_10 MHz_BPSK_RB 1_1)



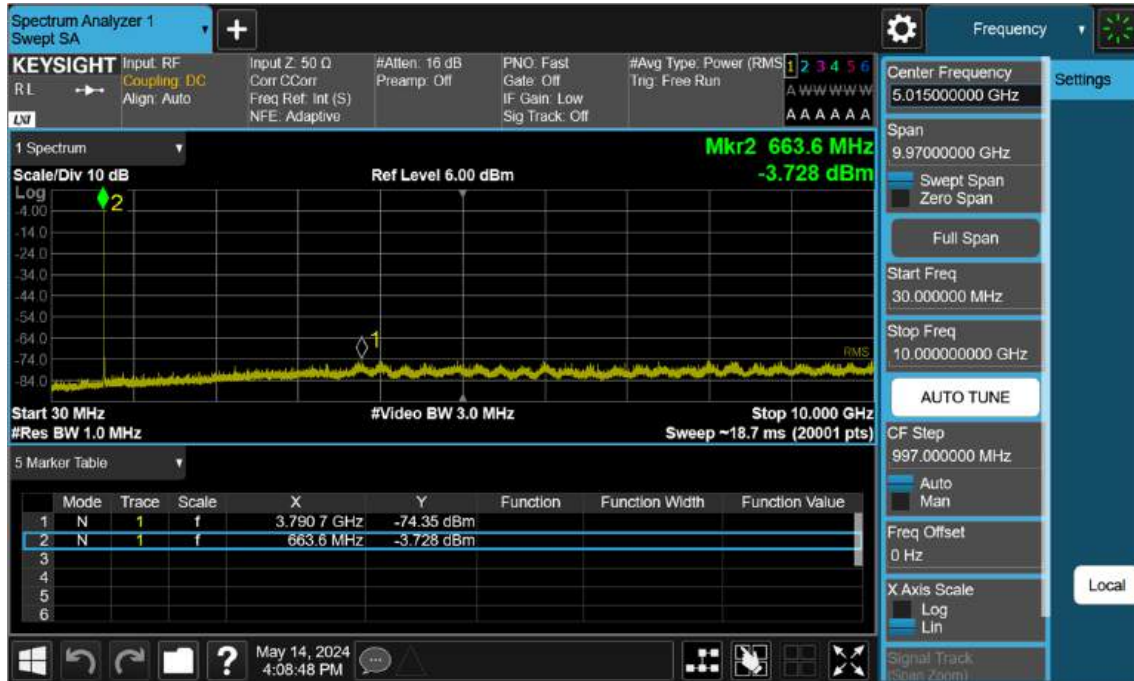
Sub6 n71. Conducted Spurious Plot _ (136100ch_10 MHz_BPSK_RB 1_1)



Sub6 n71. Conducted Spurious Plot _ (138600ch_10 MHz_BPSK_RB 1_1)



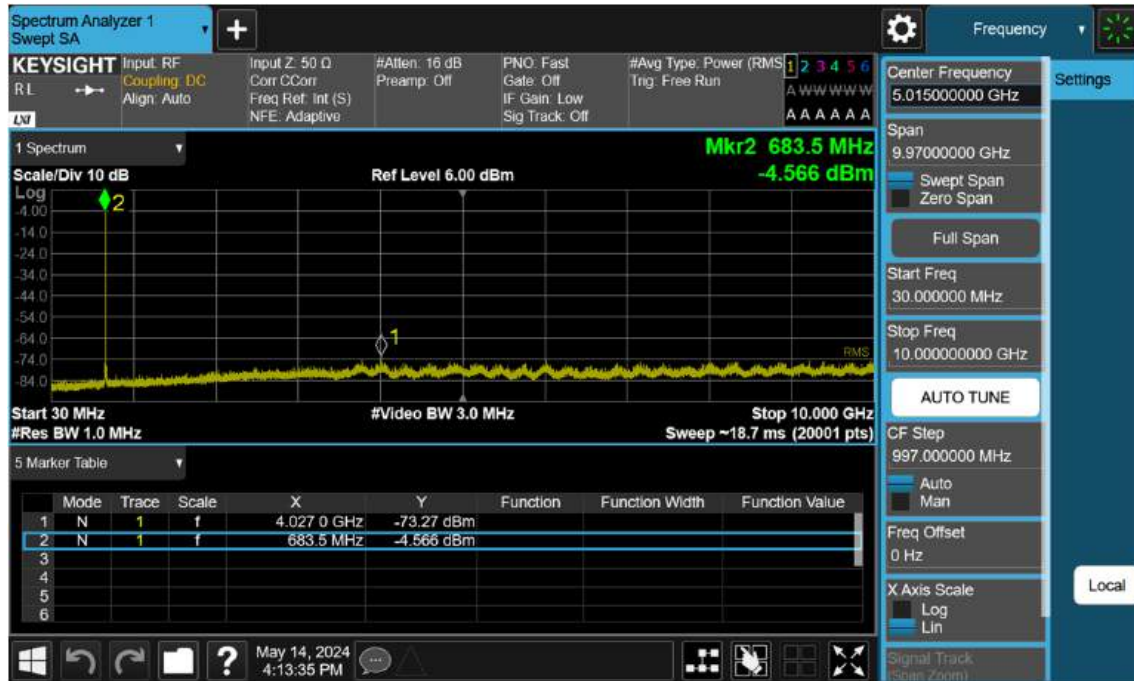
Sub6 n71. Conducted Spurious Plot _ (134100ch_15 MHz_BPSK_RB 1_1)



Sub6 n71. Conducted Spurious Plot _ (136100ch_15 MHz_BPSK_RB 1_1)



Sub6 n71. Conducted Spurious Plot _ (138100ch_15 MHz_BPSK_RB 1_1)



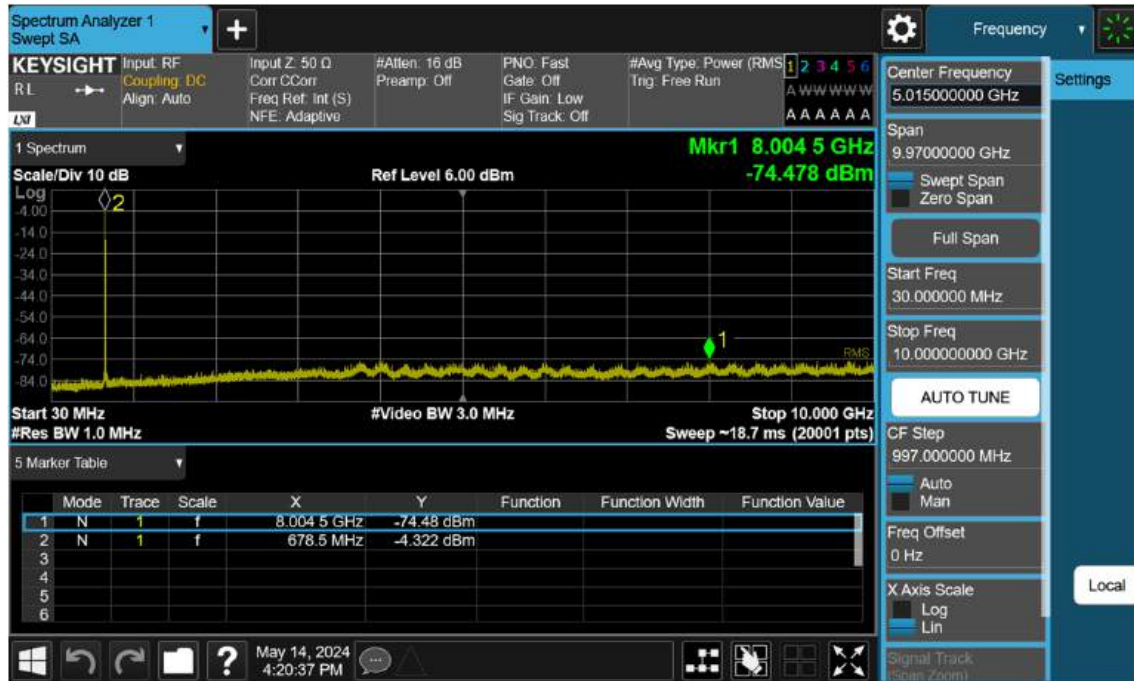
Sub6 n71. Conducted Spurious Plot _ (134600ch_20 MHz_BPSK_RB 1_1)



Sub6 n71. Conducted Spurious Plot _ (136100ch_20 MHz_BPSK_RB 1_1)



Sub6 n71. Conducted Spurious Plot _ (137600ch_20 MHz_BPSK_RB 1_1)



10. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2409-FC010-P