

# FCC Sub6 REPORT

## Certification

**Applicant Name:**

SAMSUNG Electronics Co., Ltd.

**Date of Issue:**

October 16, 2023

**Address:**

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

**Location:**

HCT CO., LTD.,  
74, Seoicheon-ro 578beon-gil, Majang-myeon,  
Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

**Report No.:** HCT-RF-2310-FC038

**FCC ID:**

**A3LSMS926U**

**APPLICANT:**

**SAMSUNG Electronics Co., Ltd.**

Model(s): SM-S926U  
Additional Model(s): SM-S926U1  
EUT Type: Mobile phone  
FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)  
FCC Rule Part(s): §27

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)

**Ant B**

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n7 (5)	2502.5 – 2567.5	4M60G7D	PI/2 BPSK	0.091	19.58
		4M61G7D	QPSK	0.089	19.51
		4M64W7D	16QAM	0.071	18.53
		4M62W7D	64QAM	0.050	17.03
		4M62W7D	256QAM	0.029	14.63
Sub6 n7 (10)	2505.0 – 2565.0	8M95G7D	PI/2 BPSK	0.095	19.78
		9M00G7D	QPSK	0.094	19.73
		8M96W7D	16QAM	0.076	18.82
		9M01W7D	64QAM	0.053	17.28
		8M98W7D	256QAM	0.029	14.65
Sub6 n7 (15)	2507.5 – 2562.5	13M5G7D	PI/2 BPSK	0.099	19.94
		13M5G7D	QPSK	0.095	19.80
		13M5W7D	16QAM	0.074	18.70
		13M4W7D	64QAM	0.055	17.38
		13M5W7D	256QAM	0.033	15.13
Sub6 n7 (20)	2510.0 – 2560.0	18M0G7D	PI/2 BPSK	0.097	19.89
		17M9G7D	QPSK	0.097	19.87
		17M9W7D	16QAM	0.082	19.14
		17M9W7D	64QAM	0.057	17.58
		17M9W7D	256QAM	0.031	14.97
Sub6 n7 (25)	2512.5 – 2557.5	22M9G7D	PI/2 BPSK	0.104	20.16
		23M0G7D	QPSK	0.102	20.07
		23M0W7D	16QAM	0.082	19.12
		22M9W7D	64QAM	0.058	17.67
		22M9W7D	256QAM	0.035	15.38
Sub6 n7 (30)	2515.0 – 2555.0	28M7G7D	PI/2 BPSK	0.102	20.10
		28M7G7D	QPSK	0.102	20.09
		28M6W7D	16QAM	0.079	19.00
		28M5W7D	64QAM	0.057	17.56
		28M7W7D	256QAM	0.031	14.90
Sub6 n7 (35)	2517.5 – 2552.5	32M2G7D	PI/2 BPSK	0.096	19.83
		32M3G7D	QPSK	0.094	19.71
		32M2W7D	16QAM	0.077	18.89
		32M2W7D	64QAM	0.055	17.44
		32M3W7D	256QAM	0.031	14.96
Sub6 n7 (40)	2520.0 – 2550.0	38M6G7D	PI/2 BPSK	0.099	19.96
		38M6G7D	QPSK	0.096	19.83
		38M6W7D	16QAM	0.077	18.84
		38M7W7D	64QAM	0.055	17.43
		38M6W7D	256QAM	0.030	14.84

**Ant F**

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n7 (5)	2502.5 – 2567.5	4M52G7D	PI/2 BPSK	0.173	22.37
		4M49G7D	QPSK	0.169	22.28
		4M49W7D	16QAM	0.135	21.30
		4M51W7D	64QAM	0.097	19.87
		4M53W7D	256QAM	0.053	17.27
Sub6 n7 (10)	2505.0 – 2565.0	8M99G7D	PI/2 BPSK	0.180	22.56
		9M01G7D	QPSK	0.176	22.46
		8M99W7D	16QAM	0.141	21.49
		8M97W7D	64QAM	0.098	19.91
		9M01W7D	256QAM	0.056	17.46
Sub6 n7 (15)	2507.5 – 2562.5	13M5G7D	PI/2 BPSK	0.181	22.57
		13M5G7D	QPSK	0.176	22.45
		13M5W7D	16QAM	0.142	21.52
		13M5W7D	64QAM	0.100	20.01
		13M5W7D	256QAM	0.056	17.50
Sub6 n7 (20)	2510.0 – 2560.0	18M9G7D	PI/2 BPSK	0.184	22.64
		17M0G7D	QPSK	0.180	22.56
		17M9W7D	16QAM	0.150	21.77
		17M9W7D	64QAM	0.106	20.24
		18M0W7D	256QAM	0.058	17.63
Sub6 n7 (25)	2512.5 – 2557.5	23M0G7D	PI/2 BPSK	0.201	23.03
		22M9G7D	QPSK	0.192	22.84
		22M9W7D	16QAM	0.152	21.81
		22M9W7D	64QAM	0.111	20.44
		23M0W7D	256QAM	0.060	17.79
Sub6 n7 (30)	2515.0 – 2555.0	28M7G7D	PI/2 BPSK	0.196	22.92
		28M7G7D	QPSK	0.193	22.86
		28M7W7D	16QAM	0.148	21.70
		28M7W7D	64QAM	0.110	20.41
		28M7W7D	256QAM	0.062	17.94
Sub6 n7 (35)	2517.5 – 2552.5	32M3G7D	PI/2 BPSK	0.185	22.68
		32M3G7D	QPSK	0.182	22.59
		32M2W7D	16QAM	0.146	21.63
		32M2W7D	64QAM	0.105	20.22
		32M3W7D	256QAM	0.057	17.59
Sub6 n7 (40)	2520.0 – 2550.0	38M7G7D	PI/2 BPSK	0.181	22.58
		38M7G7D	QPSK	0.177	22.49
		38M7W7D	16QAM	0.139	21.44
		38M7W7D	64QAM	0.113	20.52
		38M8W7D	256QAM	0.056	17.46

Report No.: HCT-RF-2310-FC038

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REVIEWED BY



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Report prepared by : Jae Ryang Do  
Engineer of Telecommunication Testing Center

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Report approved by : Jong Seok Lee  
Manager of Telecommunication Testing Center

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.  
This test results were applied only to the test methods required by the standard.

This laboratory is not accredited for the test results marked \*.  
The above Test Report is the accredited test result by (KS Q) ISO/IEC 17025 and KOLAS(Korea Laboratory Accreditation Scheme), which signed the ILAC-MRA. (HCT Accreditation No.: KT197)

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# Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-2310-FC038	October 16, 2023	- First Approval Report

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# MEASUREMENT REPORT

## 1. GENERAL INFORMATION

<b>Applicant Name:</b>	SAMSUNG Electronics Co., Ltd.
<b>Address:</b>	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
<b>FCC ID:</b>	A3LSMS926U
<b>Application Type:</b>	Certification
<b>FCC Classification:</b>	PCS Licensed Transmitter Held to Ear (PCE)
<b>FCC Rule Part(s):</b>	§27
<b>EUT Type:</b>	Mobile phone
<b>Model(s):</b>	SM-S926U
<b>Additional Model(s):</b>	SM-S926U1
<b>SCS(kHz):</b>	15
<b>Bandwidth(MHz):</b>	5, 10, 15, 20, 25, 30, 35, 40
<b>Waveform:</b>	CP-OFDM, DFT-S-OFDM
<b>Modulation:</b>	DFT-S-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
<b>Tx Frequency:</b>	2502.5 MHz – 2567.5 MHz (Sub6 n7(5 MHz)) 2505.0 MHz – 2565.0 MHz (Sub6 n7(10 MHz)) 2507.5 MHz – 2562.5 MHz (Sub6 n7(15 MHz)) 2510.0 MHz – 2560.0 MHz (Sub6 n7(20 MHz)) 2512.5 MHz – 2557.5 MHz (Sub6 n7(25 MHz)) 2515.0 MHz – 2555.0 MHz (Sub6 n7(30 MHz)) 2517.5 MHz – 2552.5 MHz (Sub6 n7(35 MHz)) 2520.0 MHz – 2550.0 MHz (Sub6 n7(40 MHz))
<b>Date(s) of Tests:</b>	August 31, 2023 ~ October 11, 2023
<b>Serial number:</b>	Radiated: R3CW90B4EDB Conducted: R3CW80MAK7Y(Ant B), 741c314dee0f7ece(Ant F)

## **2. INTRODUCTION**

### **2.1. DESCRIPTION OF EUT**

The EUT was a Mobile Phone with GSM/GPRS/EGPRS/UMTS and LTE, Sub6, mmWave.

It also supports IEEE 802.11 a/b/g/n/ac/ax (20/40/80/160 MHz), WIFI 6E, Bluetooth, BT LE, NFC, UWB, WPT.

### **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, 17383, Rep. 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 - ANSI C63.26-2015 – Section 5.2.6(only GSM)
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 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 in accordance with ANSI/TIA-603-E-2016 Clause 2.2.17.

### 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 according to ANSI/TIA-603-E-2016.

#### 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 10<sup>th</sup> 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;

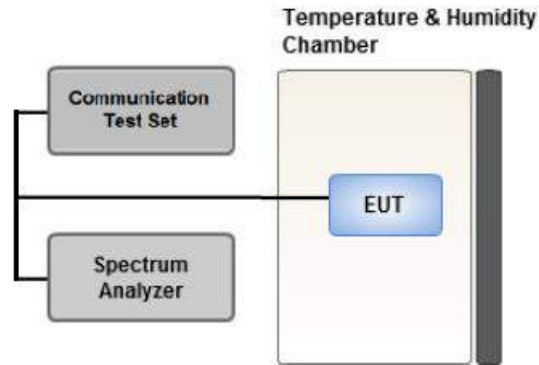
$$\text{Result}_{(dBm)} = P_g_{(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dBi)}$$

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.

$$\text{EIRP}_{(dBm)} = \text{ERP}_{(dBm)} + 2.15 \text{ dB}$$

### 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:

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

**Test Settings(Peak Power)**

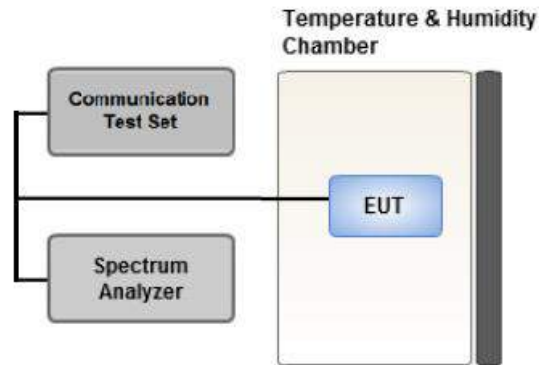
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW  $\geq 3 \times$  RBW.

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  $[10 \log (1/0.25)] = 6$  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.

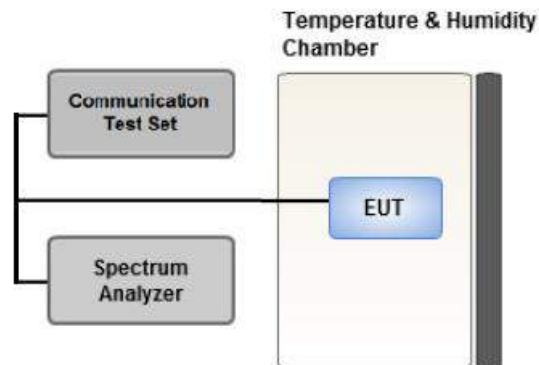
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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**

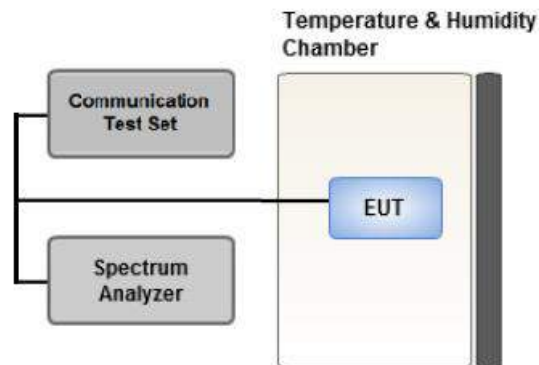
#### **Test Overview**

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 = RMS
4. Trace Mode = Average
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 1MHz 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  $\geq 2 \times \text{Span}/\text{RBW}$
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

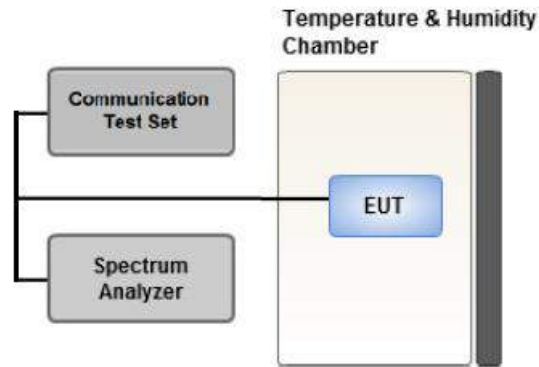


**Test Notes**

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 that  $43 + 10 \log (P)$  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  $10 \log(1 \text{ MHz/ RB})$  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 : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)  
Worst case : Stand alone  
Mode : SA Only
- We were performed the RSE test in condition of co-location.  
Mode : Stand alone, Simultaneous transmission scenarios  
Worst case : Stand alone
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.  
Please refer to the table below.
- SM-S926U & additional models were tested and the worst case results are reported.  
(Worst case : SM-S926U)

[ Ant B Worst case ]

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

[ Ant F Worst case ]

Test Description	Modulation	RB size	RB offset	Axis
Effective 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 : SA Only

- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.

Please refer to the table below.

- SM-S926U & additional models were tested and the worst case results are reported.

(Worst case : SM-S926U)

[ 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	5, 10, 15, 20, 25, 30, 35, 40	Mid	Full RB	0		
Channel 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		
		25	Low	1	0		
			High	1	132		
		30	Low	1	0		
			High	1	159		
		35	Low	1	0		
			High	1	187		
		40	Low	1	0		
			High	1	215		
				5, 10, 15, 20, 25, 30, 35, 40	Low, High	Full RB	0
		Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	5, 10, 15, 20, 25, 30, 35, 40	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	03/27/2024	Biennial
Precision Dipole Antenna	UHAP	Schwarzbeck	01274	03/27/2024	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	02289	03/21/2024	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	9120D-1299	04/27/2025	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/29/2024	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/28/2025	Biennial
Loop Antenna(9 kHz~30 MHz)	FMZB1513	Rohde & Schwarz	1513-175	01/16/2025	Biennial
Bilog Antenna	VULB9160	Schwarzbeck	3150	03/09/2025	Biennial
Hybrid Antenna	VULB9160	Schwarzbeck	760	02/24/2025	Biennial
RF Switching System	FBSR-06B (1G HPF + LNA)	T&M SYSTEM	F3L1	05/22/2024	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/22/2024	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/22/2024	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/22/2024	Annual
Power Amplifier	CBL18265035	CERNEK	22966	12/01/2023	Annual
Power Amplifier	CBL26405040	CERNEK	25956	03/02/2024	Annual
DC Power Supply	E3632A	Hewlett Packard	MY40004427	08/25/2024	Annual
Power Splitter(DC~26.5 GHz)	11667B	Hewlett Packard	11275	03/02/2024	Annual
Chamber	SU-642	ESPEC	93008124	02/22/2024	Annual
Signal Analyzer(10 Hz~26.5 GHz)	N9020A	Agilent	MY51110063	04/11/2024	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/19/2024	Annual
Spectrum Analyzer(10 Hz~40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/22/2024	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/10/2024	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/22/2024	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/23/2024	Annual
SIGNAL GENERATOR (100 kHz~40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	06/22/2024	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/24/2024	Annual
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/19/2024	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.,	-	-	-

**Note:**

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

## 5. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4:2014. All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the  $U_{\text{CISPR}}$  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)	1.90 (Confidence level about 95 %, $k=2$ )
Radiated Disturbance (9 kHz ~ 30 MHz)	4.14 (Confidence level about 95 %, $k=2$ )
Radiated Disturbance (30 MHz ~ 1 GHz)	5.16 (Confidence level about 95 %, $k=2$ )
Radiated Disturbance (1 GHz ~ 18 GHz)	5.57 (Confidence level about 95 %, $k=2$ )
Radiated Disturbance (18 GHz ~ 40 GHz)	5.76 (Confidence level about 95 %, $k=2$ )
Radiated Disturbance (Above 40 GHz)	5.52 (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(m)(4)	<ul style="list-style-type: none"> <li>■ <math>&lt; 40 + 10\log_{10} (P[\text{Watts}])</math> at Channel edges</li> <li>■ <math>&lt; 43 + 10\log_{10} (P[\text{Watts}])</math> between 5 and X MHz from Channel edges</li> <li>■ <math>&lt; 55 + 10\log_{10} (P[\text{Watts}])</math> beyond X MHz beyond from Channel edges</li> <li>■ <math>&lt; 43 + 10 \log (P)</math> dB on all frequencies between 2490.5 MHz and 2496 MHz</li> </ul>	PASS
Conducted Output Power	§2.1046	N/A	<u>See Note1</u>
Frequency stability / variation of ambient temperature	§2.1055, §27.54	Emission must remain in band	PASS

**Note:**

1. See SAR Report
2. All conducted tests were tested using 5G Wireless Tester.

### 6.2 Test Condition: Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Equivalent Isotropic Radiated Power	§27.50(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

**ERP = Substitute LEVEL(dBm) + Ant. Gain – 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

**EIRP = Substitute LEVEL(dBm) + Ant. Gain – 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(Ant B)

### 8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W dBm	Size	Offset
2502.5	Sub6 n7/ 5 MHz [15 kHz]	PI/2 BPSK	-25.11	11.53	10.30	2.47	H	< 2.00	0.086	19.36	1	23
		QPSK	-25.44	11.20	10.30	2.47	H		0.080	19.03		
		16-QAM	-26.33	10.31	10.30	2.47	H		0.065	18.14		
		64-QAM	-27.78	8.86	10.30	2.47	H		0.047	16.69		
		256-QAM	-30.15	6.49	10.30	2.47	H		0.027	14.32		
2535.0		PI/2 BPSK	-24.45	11.80	10.30	2.52	H		0.091	19.58	1	12
		QPSK	-24.71	11.54	10.30	2.52	H		0.086	19.32		
		16-QAM	-25.50	10.75	10.30	2.52	H		0.071	18.53		
		64-QAM	-27.00	9.25	10.30	2.52	H		0.050	17.03		
		256-QAM	-29.40	6.85	10.30	2.52	H		0.029	14.63		
2567.5	PI/2 BPSK	-24.57	11.97	10.20	2.60	H	0.091	19.57	1	23		
	QPSK	-24.63	11.91	10.20	2.60	H	0.089	19.51				
	16-QAM	-25.75	10.79	10.20	2.60	H	0.069	18.39				
	64-QAM	-27.11	9.43	10.20	2.60	H	0.050	17.03				
	256-QAM	-29.70	6.84	10.20	2.60	H	0.028	14.44				

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W dBm	Size	Offset
2505.0	Sub6 n7/ 10 MHz [15 kHz]	PI/2 BPSK	-24.79	11.85	10.30	2.49	H	< 2.00	0.093	19.66	1	50
		QPSK	-25.05	11.59	10.30	2.49	H		0.087	19.40		
		16-QAM	-25.85	10.79	10.30	2.49	H		0.072	18.60		
		64-QAM	-27.30	9.34	10.30	2.49	H		0.052	17.15		
		256-QAM	-30.00	6.64	10.30	2.49	H		0.028	14.45		
2535.0		PI/2 BPSK	-24.28	11.97	10.30	2.52	H		0.095	19.75	1	26
		QPSK	-24.38	11.87	10.30	2.52	H		0.092	19.65		
		16-QAM	-25.33	10.92	10.30	2.52	H		0.074	18.70		
		64-QAM	-26.78	9.47	10.30	2.52	H		0.053	17.25		
		256-QAM	-29.38	6.87	10.30	2.52	H		0.029	14.65		
2565.0	PI/2 BPSK	-24.56	12.18	10.20	2.60	H	0.095	19.78	1	1		
	QPSK	-24.61	12.13	10.20	2.60	H	0.094	19.73				
	16-QAM	-25.52	11.22	10.20	2.60	H	0.076	18.82				
	64-QAM	-27.06	9.68	10.20	2.60	H	0.053	17.28				
	256-QAM	-29.70	7.04	10.20	2.60	H	0.029	14.64				

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
2507.5	Sub6 n7/ 15 MHz [15 kHz]	PI/2 BPSK	-24.48	12.14	10.30	2.50	H	< 2.00	0.099	19.94	1	77
		QPSK	-24.62	12.00	10.30	2.50	H		0.095	19.80		
		16-QAM	-25.73	10.89	10.30	2.50	H		0.074	18.69		
		64-QAM	-27.04	9.58	10.30	2.50	H		0.055	17.38		
		256-QAM	-29.55	7.07	10.30	2.50	H		0.031	14.87		
2535.0		PI/2 BPSK	-24.30	11.95	10.30	2.52	H		0.094	19.73	1	1
		QPSK	-24.44	11.81	10.30	2.52	H		0.091	19.59		
		16-QAM	-25.33	10.92	10.30	2.52	H		0.074	18.70		
		64-QAM	-26.84	9.41	10.30	2.52	H		0.052	17.19		
		256-QAM	-29.27	6.98	10.30	2.52	H		0.030	14.76		
2562.5	PI/2 BPSK	-24.93	12.00	10.20	2.59	H	0.091	19.61	1	1		
	QPSK	-25.08	11.85	10.20	2.59	H	0.088	19.46				
	16-QAM	-25.88	11.05	10.20	2.59	H	0.073	18.66				
	64-QAM	-27.50	9.43	10.20	2.59	H	0.051	17.04				
	256-QAM	-29.41	7.52	10.20	2.59	H	0.033	15.13				

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W dBm	Size	Offset
2510.0	Sub6 n7/ 20 MHz [15 kHz]	PI/2 BPSK	-24.54	12.08	10.30	2.50	H	< 2.00	0.097	19.88	1	104
		QPSK	-24.59	12.03	10.30	2.50	H		0.096	19.83		
		16-QAM	-25.57	11.05	10.30	2.50	H		0.077	18.85		
		64-QAM	-26.92	9.70	10.30	2.50	H		0.056	17.50		
		256-QAM	-29.70	6.92	10.30	2.50	H		0.030	14.72		
2535.0		PI/2 BPSK	-24.61	11.64	10.30	2.52	H		0.088	19.42	1	1
		QPSK	-24.63	11.62	10.30	2.52	H		0.087	19.40		
		16-QAM	-25.43	10.82	10.30	2.52	H		0.073	18.60		
		64-QAM	-26.90	9.35	10.30	2.52	H		0.052	17.13		
		256-QAM	-29.60	6.65	10.30	2.52	H		0.028	14.43		
2560.0	PI/2 BPSK	-24.65	12.28	10.20	2.59	H	0.097	19.89	1	1		
	QPSK	-24.67	12.26	10.20	2.59	H	0.097	19.87				
	16-QAM	-25.40	11.53	10.20	2.59	H	0.082	19.14				
	64-QAM	-26.96	9.97	10.20	2.59	H	0.057	17.58				
	256-QAM	-29.57	7.36	10.20	2.59	H	0.031	14.97				

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W dBm	Size	Offset
2512.5	Sub6 n7/ 25 MHz [15 kHz]	PI/2 BPSK	-24.26	12.36	10.30	2.50	H	< 2.00	0.104	20.16	1	131
		QPSK	-24.35	12.27	10.30	2.50	H		0.102	20.07		
		16-QAM	-25.30	11.32	10.30	2.50	H		0.082	19.12		
		64-QAM	-26.75	9.87	10.30	2.50	H		0.058	17.67		
		256-QAM	-29.45	7.17	10.30	2.50	H		0.031	14.97		
2535.0		PI/2 BPSK	-24.20	12.05	10.30	2.52	H		0.096	19.83	1	66
		QPSK	-24.29	11.96	10.30	2.52	H		0.094	19.74		
		16-QAM	-25.13	11.12	10.30	2.52	H		0.078	18.90		
		64-QAM	-26.68	9.57	10.30	2.52	H		0.054	17.35		
		256-QAM	-29.19	7.06	10.30	2.52	H		0.030	14.84		
2557.5	PI/2 BPSK	-24.70	12.23	10.20	2.59	H	0.096	19.84	1	66		
	QPSK	-24.87	12.06	10.20	2.59	H	0.093	19.67				
	16-QAM	-25.70	11.23	10.20	2.59	H	0.076	18.84				
	64-QAM	-27.05	9.88	10.20	2.59	H	0.056	17.49				
	256-QAM	-29.16	7.77	10.20	2.59	H	0.035	15.38				



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
2515.0	Sub6 n7/ 30 MHz [15 kHz]	PI/2 BPSK	-24.18	12.32	10.30	2.52	H	< 2.00	0.102	20.10	1	158
		QPSK	-24.19	12.31	10.30	2.52	H		0.102	20.09		
		16-QAM	-25.28	11.22	10.30	2.52	H		0.079	19.00		
		64-QAM	-26.80	9.70	10.30	2.52	H		0.056	17.48		
		256-QAM	-29.40	7.10	10.30	2.52	H		0.031	14.88		
2535.0		PI/2 BPSK	-24.56	11.69	10.30	2.52	H		0.089	19.47	1	80
		QPSK	-24.57	11.68	10.30	2.52	H		0.088	19.46		
		16-QAM	-26.00	10.25	10.30	2.52	H		0.064	18.03		
		64-QAM	-27.49	8.76	10.30	2.52	H		0.045	16.54		
		256-QAM	-29.28	6.97	10.30	2.52	H		0.030	14.75		
2555.0		PI/2 BPSK	-24.47	12.18	10.20	2.57	H		0.096	19.81	1	80
		QPSK	-24.57	12.08	10.20	2.57	H		0.094	19.71		
		16-QAM	-25.37	11.28	10.20	2.57	H		0.078	18.91		
		64-QAM	-26.72	9.93	10.20	2.57	H		0.057	17.56		
		256-QAM	-29.38	7.27	10.20	2.57	H		0.031	14.90		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W dBm	Size	Offset
2517.5	Sub6 n7/ 35 MHz [15 kHz]	PI/2 BPSK	-24.50	11.94	10.30	2.53	H	< 2.00	0.094	19.71	1	186
		QPSK	-24.58	11.86	10.30	2.53	H		0.092	19.63		
		16-QAM	-25.32	11.12	10.30	2.53	H		0.077	18.89		
		64-QAM	-26.77	9.67	10.30	2.53	H		0.055	17.44		
		256-QAM	-29.25	7.19	10.30	2.53	H		0.031	14.96		
2535.0		PI/2 BPSK	-24.29	11.96	10.30	2.52	H		0.094	19.74	1	94
		QPSK	-24.32	11.93	10.30	2.52	H		0.094	19.71		
		16-QAM	-25.15	11.10	10.30	2.52	H		0.077	18.88		
		64-QAM	-26.66	9.59	10.30	2.52	H		0.055	17.37		
		256-QAM	-29.32	6.93	10.30	2.52	H		0.030	14.71		
2552.5	PI/2 BPSK	-24.32	12.19	10.20	2.56	H	0.096	19.83	1	94		
	QPSK	-24.46	12.05	10.20	2.56	H	0.093	19.69				
	16-QAM	-25.63	10.88	10.20	2.56	H	0.071	18.52				
	64-QAM	-27.00	9.51	10.20	2.56	H	0.052	17.15				
	256-QAM	-29.61	6.90	10.20	2.56	H	0.029	14.54				

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W dBm	Size	Offset
2520.0	Sub6 n7/ 40 MHz [15 kHz]	PI/2 BPSK	-24.30	12.07	10.30	2.53	H	< 2.00	0.096	19.84	1	214
		QPSK	-24.32	12.05	10.30	2.53	H		0.096	19.82		
		16-QAM	-25.33	11.04	10.30	2.53	H		0.076	18.81		
		64-QAM	-26.76	9.61	10.30	2.53	H		0.055	17.38		
		256-QAM	-29.39	6.98	10.30	2.53	H		0.030	14.75		
2535.0		PI/2 BPSK	-24.75	11.50	10.30	2.52	H		0.085	19.28	1	1
		QPSK	-25.00	11.25	10.30	2.52	H		0.080	19.03		
		16-QAM	-25.81	10.44	10.30	2.52	H		0.066	18.22		
		64-QAM	-27.34	8.91	10.30	2.52	H		0.047	16.69		
		256-QAM	-29.44	6.81	10.30	2.52	H		0.029	14.59		
2550.0	PI/2 BPSK	-24.06	12.31	10.20	2.55	H	0.099	19.96	1	108		
	QPSK	-24.19	12.18	10.20	2.55	H	0.096	19.83				
	16-QAM	-25.18	11.19	10.20	2.55	H	0.077	18.84				
	64-QAM	-26.59	9.78	10.20	2.55	H	0.055	17.43				
	256-QAM	-29.18	7.19	10.20	2.55	H	0.030	14.84				

### 8.2 RADIATED SPURIOUS EMISSIONS

- ▣ NR Band: N7
- ▣ Bandwidth: 5 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meters
- ▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
500500 (2502.5)	5 005.00	-60.88	10.70	-62.16	3.61	V	-55.07	-25.00	1	23
	7 507.50	-64.43	11.10	-57.36	4.50	V	-50.76			
	10 010.00	-62.40	11.20	-54.26	5.27	V	-48.33			
	12 512.50	-63.29	12.10	-53.98	6.04	V	-47.92			
	15 015.00	-58.61	13.80	-52.10	6.65	V	-44.95			
507000 (2535.0)	5 070.00	-60.95	10.70	-62.23	3.62	V	-55.15		1	12
	7 605.00	-64.25	11.20	-57.24	4.53	V	-50.56			
	10 140.00	-63.43	11.10	-53.77	5.31	V	-47.98			
	12 675.00	-63.75	11.90	-53.89	6.06	V	-48.05			
	15 210.00	-60.25	14.40	-55.53	6.67	V	-47.80			
513500 (2567.5)	5 135.00	-62.79	10.80	-64.36	3.62	V	-57.17		1	23
	7 702.50	-64.04	11.00	-56.97	4.57	V	-50.54			
	10 270.00	-64.41	11.00	-53.61	5.35	V	-47.96			
	12 837.50	-65.64	11.80	-55.50	6.06	V	-49.76			
	15 405.00	-60.86	15.30	-54.95	6.75	V	-46.40			

- NR Band: N7
- Bandwidth: 10 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB		
									Size	Offset	
501000 (2505.0)	5 010.00	-62.89	10.70	-64.10	3.59	V	-56.99	-25.00	1	50	
	7 515.00	-64.16	11.10	-57.05	4.51	V	-50.46				
	10 020.00	-63.50	11.20	-54.41	5.28	V	-48.49				
	12 525.00	-64.06	12.10	-54.18	6.02	V	-48.10				
	15 030.00	-58.53	13.80	-52.21	6.64	V	-45.05				
507000 (2535.0)	5 070.00	-62.50	10.70	-63.78	3.62	V	-56.70		-25.00	1	26
	7 605.00	-64.97	11.20	-57.96	4.53	V	-51.28				
	10 140.00	-63.77	11.10	-54.11	5.31	V	-48.32				
	12 675.00	-64.74	11.90	-54.88	6.06	V	-49.04				
	15 210.00	-61.06	14.40	-56.34	6.67	V	-48.61				
513000 (2565.0)	5 130.00	-61.62	10.80	-62.85	3.62	V	-55.67		-25.00	1	1
	7 695.00	-64.20	11.05	-57.15	4.57	V	-50.67				
	10 260.00	-64.52	11.00	-54.16	5.35	V	-48.51				
	12 825.00	-66.54	11.80	-55.88	6.08	V	-50.16				
	15 390.00	-60.90	15.10	-54.89	6.75	V	-46.54				

- NR Band: N7
- Bandwidth: 15 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
501500 (2507.5)	5 015.00	-63.26	10.70	-64.63	3.57	V	-57.50	-25.00	1	77
	7 522.50	-65.98	11.10	-58.84	4.51	V	-52.25			
	10 030.00	-63.02	11.20	-54.46	5.27	V	-48.53			
	12 537.50	-63.84	12.10	-53.99	6.00	V	-47.89			
	15 045.00	-58.88	13.90	-52.77	6.66	V	-45.53			
507000 (2535.0)	5 070.00	-63.12	10.70	-64.40	3.62	V	-57.32		1	1
	7 605.00	-65.15	11.20	-58.14	4.53	V	-51.46			
	10 140.00	-63.54	11.10	-53.88	5.31	V	-48.09			
	12 675.00	-64.05	11.90	-54.19	6.06	V	-48.35			
	15 210.00	-58.23	14.40	-53.51	6.67	V	-45.78			
512500 (2562.5)	5 125.00	-61.97	10.80	-63.11	3.63	V	-55.94		1	1
	7 687.50	-65.05	11.10	-58.02	4.57	V	-51.49			
	10 250.00	-64.81	11.00	-54.07	5.35	V	-48.42			
	12 812.50	-65.18	11.80	-54.03	6.10	V	-48.33			
	15 375.00	-61.29	15.10	-55.48	6.74	V	-47.12			

- NR Band: N7
- Bandwidth: 20 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
502000 (2510.0)	5 020.00	-63.32	10.70	-64.85	3.55	V	-57.70	-25.00	1	104
	7 530.00	-66.79	11.10	-59.32	4.50	V	-52.72			
	10 040.00	-63.55	11.20	-54.29	5.26	V	-48.35			
	12 550.00	-64.66	12.10	-55.34	5.99	V	-49.23			
	15 060.00	-57.36	14.00	-51.55	6.65	V	-44.20			
507000 (2535.0)	5 070.00	-62.84	10.70	-64.12	3.62	V	-57.04		1	1
	7 605.00	-65.99	11.20	-58.98	4.53	V	-52.30			
	10 140.00	-62.71	11.10	-53.05	5.31	V	-47.26			
	12 675.00	-63.00	11.90	-53.14	6.06	V	-47.30			
	15 210.00	-58.45	14.40	-53.73	6.67	V	-46.00			
512000 (2560.0)	5 120.00	-61.55	10.80	-62.60	3.64	V	-55.44		1	1
	7 680.00	-64.82	11.10	-57.88	4.55	V	-51.33			
	10 240.00	-62.71	11.00	-52.80	5.33	V	-47.13			
	12 800.00	-63.00	11.80	-51.84	6.10	V	-46.14			
	15 360.00	-57.11	15.10	-51.58	6.72	V	-43.20			

- NR Band: N7
- Bandwidth: 25 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
502500 (2512.5)	5 025.00	-61.97	10.70	-63.78	3.56	V	-56.64	-25.00	1	131
	7 537.50	-65.21	11.10	-57.73	4.50	V	-51.13			
	10 050.00	-63.27	11.10	-54.84	5.27	V	-49.01			
	12 562.50	-64.56	12.10	-55.25	6.01	V	-49.16			
	15 075.00	-59.29	14.00	-54.04	6.65	V	-46.69			
507000 (2535.0)	5 070.00	-62.02	10.70	-63.30	3.62	V	-56.22		1	66
	7 605.00	-65.81	11.20	-58.80	4.53	V	-52.12			
	10 140.00	-63.71	11.10	-54.05	5.31	V	-48.26			
	12 675.00	-64.81	11.90	-54.95	6.06	V	-49.11			
	15 210.00	-60.62	14.40	-55.90	6.67	V	-48.17			
511500 (2557.5)	5 115.00	-63.38	10.80	-64.57	3.66	V	-57.42		1	66
	7 672.50	-65.41	11.10	-58.23	4.54	V	-51.67			
	10 230.00	-64.80	11.00	-55.22	5.33	V	-49.55			
	12 787.50	-65.05	11.80	-54.20	6.12	V	-48.52			
	15 345.00	-60.32	15.00	-55.01	6.72	V	-46.73			



- NR Band: N7
- Bandwidth: 30 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
503000 (2515.0)	5 030.00	-61.17	10.70	-63.27	3.56	V	-56.13	-25.00	1	158
	7 545.00	-65.08	11.10	-57.73	4.51	V	-51.14			
	10 060.00	-62.37	11.10	-53.58	5.27	V	-47.75			
	12 575.00	-65.63	12.10	-56.11	6.05	V	-50.06			
	15 090.00	-60.68	14.00	-55.54	6.66	V	-48.20			
507000 (2535.0)	5 070.00	-63.92	10.70	-65.20	3.62	V	-58.12		1	80
	7 605.00	-64.65	11.20	-57.64	4.53	V	-50.96			
	10 140.00	-65.25	11.10	-55.59	5.31	V	-49.80			
	12 675.00	-63.67	11.90	-53.81	6.06	V	-47.97			
	15 210.00	-60.48	14.40	-55.76	6.67	V	-48.03			
511000 (2555.0)	5 110.00	-63.08	10.80	-64.41	3.67	V	-57.28		1	80
	7 665.00	-65.74	11.10	-58.68	4.54	V	-52.12			
	10 220.00	-64.92	11.00	-54.94	5.32	V	-49.26			
	12 775.00	-65.32	11.80	-54.46	6.09	V	-48.74			
	15 330.00	-61.74	14.90	-56.57	6.71	V	-48.38			

- NR Band: N7
- Bandwidth: 35 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB			
									Size	Offset		
503500 (2517.5)	5 035.00	-62.44	10.70	-64.47	3.58	V	-57.35	-25.00	1	186		
	7 552.50	-65.99	11.10	-58.89	4.51	V	-52.30					
	10 070.00	-63.72	11.10	-54.89	5.30	V	-49.09					
	12 587.50	-65.84	12.10	-56.16	6.06	V	-50.12					
	15 105.00	-60.99	14.10	-55.25	6.68	V	-47.83					
507000 (2535.0)	5 070.00	-62.28	10.70	-63.56	3.62	V	-56.48		-25.00	1	94	
	7 605.00	-66.01	11.20	-59.00	4.53	V	-52.32					
	10 140.00	-65.12	11.10	-55.46	5.31	V	-49.67					
	12 675.00	-64.36	11.90	-54.50	6.06	V	-48.66					
	15 210.00	-63.07	14.40	-58.35	6.67	V	-50.62					
510500 (2552.5)	5 105.00	-63.06	10.80	-64.68	3.66	V	-57.54			-25.00	1	94
	7 657.50	-67.05	11.10	-60.16	4.53	V	-53.59					
	10 210.00	-66.84	11.00	-57.12	5.32	V	-51.44					
	12 762.50	-67.54	11.80	-56.52	6.07	V	-50.79					
	15 315.00	-60.28	14.90	-54.72	6.71	V	-46.53					

- NR Band: N7
- Bandwidth: 40 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
504000 (2520.0)	5 040.00	-63.55	10.70	-65.52	3.60	V	-58.42	-25.00	1	214
	7 560.00	-66.01	11.10	-59.02	4.51	V	-52.43			
	10 080.00	-62.96	11.10	-53.91	5.29	V	-48.10			
	12 600.00	-65.74	12.00	-56.02	6.06	V	-50.08			
	15 120.00	-61.23	14.10	-55.14	6.68	V	-47.72			
507000 (2535.0)	5 070.00	-63.45	10.70	-64.73	3.62	V	-57.65		1	1
	7 605.00	-64.86	11.20	-57.85	4.53	V	-51.17			
	10 140.00	-64.38	11.10	-54.72	5.31	V	-48.93			
	12 675.00	-63.96	11.90	-54.10	6.06	V	-48.26			
	15 210.00	-60.63	14.40	-55.91	6.67	V	-48.18			
510000 (2550.0)	5 100.00	-63.27	10.80	-65.17	3.66	V	-58.03		1	108
	7 650.00	-64.60	11.10	-57.75	4.53	V	-51.18			
	10 200.00	-63.17	11.00	-52.74	5.33	V	-47.07			
	12 750.00	-65.48	11.80	-54.52	6.04	V	-48.76			
	15 300.00	-60.72	14.90	-54.62	6.72	V	-46.44			

**8.3 PEAK-TO-AVERAGE RATIO**

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB )
Sub6 n7	5 MHz	2535.0	BPSK	25	0	4.05
			QPSK			4.68
			16-QAM			5.39
			64-QAM			5.97
			256-QAM			6.22
	10 MHz		BPSK	50		3.77
			QPSK			4.37
			16-QAM			5.37
			64-QAM			5.83
			256-QAM			6.45
	15 MHz		BPSK	75		3.85
			QPSK			4.39
			16-QAM			5.21
			64-QAM			5.83
			256-QAM			6.54
	20 MHz		BPSK	100		3.89
			QPSK			4.43
			16-QAM			5.41
			64-QAM			5.83
			256-QAM			6.64
	25 MHz		BPSK	128		4.01
			QPSK			4.51
			16-QAM			5.64
			64-QAM			5.96
			256-QAM			6.62
	30 MHz		BPSK	160		3.99
			QPSK			4.47
			16-QAM			5.34
			64-QAM			5.94
			256-QAM			6.60
	35 MHz		BPSK	180		4.00
			QPSK			4.69
16-QAM		5.53				
64-QAM		5.99				
256-QAM		6.38				
40 MHz	BPSK	216	3.96			
	QPSK		4.50			
	16-QAM		5.41			
	64-QAM		5.91			
	256-QAM		6.49			

**Note:**

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 127 ~ 166.

**8.4 OCCUPIED BANDWIDTH**

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data ( MHz )
Sub6 n7	5 MHz	2535.0	BPSK	25	0	4.5987
			QPSK			4.6132
			16-QAM			4.6347
			64-QAM			4.6220
			256-QAM			4.6158
	10 MHz		BPSK	50		8.9537
			QPSK			8.9998
			16-QAM			8.9548
			64-QAM			9.0090
			256-QAM			8.9808
	15 MHz		BPSK	75		13.491
			QPSK			13.463
			16-QAM			13.461
			64-QAM			13.439
			256-QAM			13.459
	20 MHz		BPSK	100		17.946
			QPSK			17.904
			16-QAM			17.899
			64-QAM			17.929
			256-QAM			17.903
	25 MHz		BPSK	128		22.922
			QPSK			22.961
			16-QAM			22.979
			64-QAM			22.900
			256-QAM			22.929
	30 MHz		BPSK	160		28.651
			QPSK			28.655
			16-QAM			28.625
64-QAM		28.528				
256-QAM		28.702				
35 MHz	BPSK	180	32.234			
	QPSK		32.265			
	16-QAM		32.196			
	64-QAM		32.189			
	256-QAM		32.321			
40 MHz	BPSK	216	38.567			
	QPSK		38.582			
	16-QAM		38.634			
	64-QAM		38.658			
	256-QAM		38.583			

**Note:**

1. Plots of the EUT's Occupied Bandwidth are shown Page 87 ~ 126.

**8.5 CONDUCTED SPURIOUS EMISSIONS**

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n7	5	2502.5	4.0534	30.200	-70.457	-40.257	-25.00
		2535.0	3.7712	30.200	-70.701	-40.501	
		2567.5	7.9975	30.815	-70.553	-39.738	
	10	2505.0	4.0065	30.200	-70.104	-39.904	
		2535.0	6.0110	30.815	-70.738	-39.923	
		2565.0	5.4627	30.815	-70.769	-39.954	
	15	2507.5	9.7552	30.815	-70.908	-40.093	
		2535.0	9.9880	30.815	-70.838	-40.023	
		2562.5	9.6600	30.815	-71.256	-40.441	
	20	2510.0	8.8285	30.815	-71.248	-40.433	
		2535.0	8.2777	30.815	-70.848	-40.033	
		2560.0	4.5654	30.200	-71.214	-41.014	
	25	2512.5	4.0205	30.200	-71.095	-40.895	
		2535.0	8.2503	30.815	-71.119	-40.304	
		2557.5	6.0220	30.815	-70.853	-40.038	
	30	2515.0	4.0135	30.200	-71.172	-40.972	
		2535.0	3.7478	30.200	-71.374	-41.174	
		2555.0	4.0923	30.200	-71.269	-41.069	
	35	2517.5	8.2882	30.815	-69.943	-39.128	
		2535.0	9.1381	30.815	-70.709	-39.894	
		2552.5	9.1346	30.815	-70.113	-39.298	
	40	2520.0	9.1241	30.815	-71.180	-40.365	
		2535.0	3.7528	30.200	-71.090	-40.890	
		2550.0	9.7288	30.815	-70.813	-39.998	

**Note:**

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 223 ~455.
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	27.494
1 – 5	30.200
5 – 10	30.815
10 – 15	31.340
15 – 20	31.713
Above 20	32.355

**8.6 CHANNEL EDGE**

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	2 500 MHz ~ 2 496 MHz	C.E ~ (C.E +1 MHz)	2 490.5 MHz ~ 2 496 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
5	2502.5	BPSK	Full RB	-24.05	-21.02	-29.58	-26.88	-39.90	-30.81	-29.69
10	2505.0	BPSK	Full RB	-24.42	-32.63	-32.62	-28.42	-36.42	-29.47	-31.52
15	2507.5	BPSK	Full RB	-27.96	-36.80	-34.52	-32.37	-35.95	-31.65	-35.58
20	2510.0	BPSK	Full RB	-26.33	-33.56	-34.25	-31.85	-34.48	-32.68	-36.12
25	2512.5	BPSK	Full RB	-27.53	-35.12	-35.13	-32.76	-37.27	-34.55	-43.00
30	2515.0	BPSK	Full RB	-26.59	-27.53	-34.83	-32.51	-38.53	-34.03	-41.87
35	2517.5	BPSK	Full RB	-25.05	-34.15	-34.19	-32.34	-36.88	-32.66	-41.47
40	2520.0	BPSK	Full RB	-15.40	-16.33	-38.43	-35.54	-38.99	-36.38	-50.03
Limit(dBm)				-10.0	-10.0	-13.0	-10.0	-25.0	-13.0	-25.0

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	C.E ~ (C.E ± 1 MHz)		(C.E ± 1 MHz) ~ (C.E ± 5 MHz)	
				Lower	Upper	Lower	Upper
5	2535.0	BPSK	Full RB	-21.55	-22.90	-24.35	-24.68
	2567.5	BPSK	Full RB	-23.44	-21.74	-25.79	-25.93
10	2535.0	BPSK	Full RB	-24.23	-31.84	-27.68	-29.48
	2565.0	BPSK	Full RB	-24.48	-32.74	-28.10	-28.00
15	2535.0	BPSK	Full RB	-24.20	-34.11	-30.27	-32.17
	2562.5	BPSK	Full RB	-25.67	-34.57	-29.23	-30.57
20	2535.0	BPSK	Full RB	-26.94	-36.48	-31.92	-32.53
	2560.0	BPSK	Full RB	-25.60	-34.71	-32.23	-32.06
25	2535.0	BPSK	Full RB	-27.41	-36.38	-34.23	-33.85
	2557.5	BPSK	Full RB	-25.83	-37.26	-29.20	-33.46
30	2535.0	BPSK	Full RB	-28.47	-28.89	-35.80	-34.84
	2555.0	BPSK	Full RB	-25.87	-28.22	-31.23	-32.28
35	2535.0	BPSK	Full RB	-24.28	-35.85	-35.14	-33.78
	2552.5	BPSK	Full RB	-24.78	-35.30	-30.60	-33.38
40	2535.0	BPSK	Full RB	-15.19	-18.12	-32.87	-36.02
	2550.0	BPSK	Full RB	-14.94	-18.17	-32.58	-35.10
Limi(dBm)				-10.0		-10.0	

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	(C.E ± 5 MHz)		Above (C.E ± X MHz)	
				~ (C.E ± X MHz)		Lower	Upper
				Lower	Upper		
5	2535.0	BPSK	Full RB	-31.75	-31.87	-31.85	-31.02
	2567.5	BPSK	Full RB	-30.78	-32.52	-30.29	-33.20
10	2535.0	BPSK	Full RB	-30.83	-29.70	-32.57	-31.72
	2565.0	BPSK	Full RB	-28.11	-29.17	-31.40	-41.06
15	2535.0	BPSK	Full RB	-32.24	-31.29	-34.95	-36.70
	2562.5	BPSK	Full RB	-29.41	-31.57	-34.32	-51.59
20	2535.0	BPSK	Full RB	-31.92	-32.60	-35.99	-37.99
	2560.0	BPSK	Full RB	-30.88	-34.72	-35.00	-54.29
25	2535.0	BPSK	Full RB	-34.41	-34.32	-39.25	-41.87
	2557.5	BPSK	Full RB	-31.24	-36.40	-39.74	-54.67
30	2535.0	BPSK	Full RB	-35.95	-35.91	-42.70	-47.62
	2555.0	BPSK	Full RB	-31.74	-38.19	-42.48	-54.78
35	2535.0	BPSK	Full RB	-35.60	-33.98	-43.44	-54.59
	2552.5	BPSK	Full RB	-32.49	-35.72	-39.01	-54.99
40	2535.0	BPSK	Full RB	-32.65	-36.46	-52.86	-54.11
	2550.0	BPSK	Full RB	-33.83	-38.10	-43.45	-54.32
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) = Cable Loss + Ext. Attenuator + Power Splitter
  - Result(dBm) = Reading + Factor
4. Plots of the EUT's Channel Edge are shown Page 167 ~ 222.



**8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE**

- ▣ BandWidth: 5 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2502.500	100 %	+20(Ref)	2502 499 994	0.0	0.000 000	0.000
	100 %	-30	2502 499 989	-4.5	0.000 000	-0.002
	100 %	-20	2502 499 982	-11.7	0.000 000	-0.005
	100 %	-10	2502 499 987	-7.1	0.000 000	-0.003
	100 %	0	2502 499 985	-8.8	0.000 000	-0.004
	100 %	+10	2502 499 986	-7.7	0.000 000	-0.003
	100 %	+30	2502 499 988	-5.3	0.000 000	-0.002
	100 %	+40	2502 499 988	-5.8	0.000 000	-0.002
	100 %	+50	2502 499 986	-8.1	0.000 000	-0.003
	Batt. Endpoint	+20	2502 499 988	-5.7	0.000 000	-0.002
2567.500	100 %	+20(Ref)	2567 499 995	0.0	0.000 000	0.000
	100 %	-30	2567 499 994	-1.5	0.000 000	-0.001
	100 %	-20	2567 499 993	-2.3	0.000 000	-0.001
	100 %	-10	2567 499 991	-3.8	0.000 000	-0.001
	100 %	0	2567 499 990	-4.7	0.000 000	-0.002
	100 %	+10	2567 499 997	2.3	0.000 000	0.001
	100 %	+30	2567 499 996	0.8	0.000 000	0.000
	100 %	+40	2567 499 995	0.0	0.000 000	0.000
	100 %	+50	2567 499 994	-1.1	0.000 000	0.000
	Batt. Endpoint	+20	2567 499 996	1.1	0.000 000	0.000

- ▣ BandWidth: 10 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2505.000	100 %	+20(Ref)	2504 999 998	0.0	0.000 000	0.000
	100 %	-30	2504 999 999	0.9	0.000 000	0.000
	100 %	-20	2504 999 998	0.2	0.000 000	0.000
	100 %	-10	2504 999 998	-0.5	0.000 000	0.000
	100 %	0	2504 999 999	0.6	0.000 000	0.000
	100 %	+10	2504 999 996	-1.7	0.000 000	-0.001
	100 %	+30	2504 999 998	-0.5	0.000 000	0.000
	100 %	+40	2504 999 998	-0.1	0.000 000	0.000
	100 %	+50	2504 999 998	-0.1	0.000 000	0.000
	Batt. Endpoint	+20	2504 999 998	-0.5	0.000 000	0.000
2565.000	100 %	+20(Ref)	2565 000 000	0.0	0.000 000	0.000
	100 %	-30	2564 999 996	-4.2	0.000 000	-0.002
	100 %	-20	2564 999 995	-5.9	0.000 000	-0.002
	100 %	-10	2564 999 997	-3.6	0.000 000	-0.001
	100 %	0	2564 999 999	-1.3	0.000 000	0.000
	100 %	+10	2564 999 999	-1.5	0.000 000	-0.001
	100 %	+30	2564 999 996	-4.7	0.000 000	-0.002
	100 %	+40	2564 999 996	-4.2	0.000 000	-0.002
	100 %	+50	2564 999 996	-4.8	0.000 000	-0.002
	Batt. Endpoint	+20	2564 999 999	-1.5	0.000 000	-0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2507.500	100 %	+20(Ref)	2507 500 002	0.0	0.000 000	0.000
	100 %	-30	2507 500 006	3.4	0.000 000	0.001
	100 %	-20	2507 500 006	3.7	0.000 000	0.001
	100 %	-10	2507 500 006	3.3	0.000 000	0.001
	100 %	0	2507 500 004	1.3	0.000 000	0.001
	100 %	+10	2507 500 008	5.3	0.000 000	0.002
	100 %	+30	2507 500 007	4.1	0.000 000	0.002
	100 %	+40	2507 500 006	3.8	0.000 000	0.002
	100 %	+50	2507 500 005	3.0	0.000 000	0.001
	Batt. Endpoint	+20	2507 500 003	0.5	0.000 000	0.000
2562.500	100 %	+20(Ref)	2562 500 005	0.0	0.000 000	0.000
	100 %	-30	2562 500 007	2.0	0.000 000	0.001
	100 %	-20	2562 500 005	0.3	0.000 000	0.000
	100 %	-10	2562 500 006	0.9	0.000 000	0.000
	100 %	0	2562 500 007	1.8	0.000 000	0.001
	100 %	+10	2562 500 006	1.5	0.000 000	0.001
	100 %	+30	2562 500 006	1.4	0.000 000	0.001
	100 %	+40	2562 500 006	0.6	0.000 000	0.000
	100 %	+50	2562 500 006	1.3	0.000 000	0.001
	Batt. Endpoint	+20	2562 500 006	1.2	0.000 000	0.000

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2510.000	100 %	+20(Ref)	2509 999 999	0.0	0.000 000	0.000
	100 %	-30	2509 999 997	-1.4	0.000 000	-0.001
	100 %	-20	2509 999 999	0.5	0.000 000	0.000
	100 %	-10	2509 999 998	-0.7	0.000 000	0.000
	100 %	0	2509 999 996	-2.5	0.000 000	-0.001
	100 %	+10	2509 999 994	-4.7	0.000 000	-0.002
	100 %	+30	2509 999 998	-0.9	0.000 000	0.000
	100 %	+40	2509 999 996	-2.8	0.000 000	-0.001
	100 %	+50	2509 999 997	-2.0	0.000 000	-0.001
	Batt. Endpoint	+20	2509 999 995	-4.0	0.000 000	-0.002
2560.000	100 %	+20(Ref)	2560 000 001	0.0	0.000 000	0.000
	100 %	-30	2560 000 000	-1.5	0.000 000	-0.001
	100 %	-20	2560 000 004	3.0	0.000 000	0.001
	100 %	-10	2560 000 001	0.2	0.000 000	0.000
	100 %	0	2560 000 000	-1.3	0.000 000	0.000
	100 %	+10	2560 000 002	0.6	0.000 000	0.000
	100 %	+30	2560 000 004	2.6	0.000 000	0.001
	100 %	+40	2560 000 004	2.6	0.000 000	0.001
	100 %	+50	2560 000 007	6.0	0.000 000	0.002
	Batt. Endpoint	+20	2560 000 000	-1.3	0.000 000	-0.001

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2512.500	100 %	+20(Ref)	2512 500 002	0.0	0.000 000	0.000
	100 %	-30	2512 500 006	3.9	0.000 000	0.002
	100 %	-20	2512 500 009	6.6	0.000 000	0.003
	100 %	-10	2512 500 006	3.5	0.000 000	0.001
	100 %	0	2512 500 006	3.4	0.000 000	0.001
	100 %	+10	2512 500 006	4.1	0.000 000	0.002
	100 %	+30	2512 500 004	2.1	0.000 000	0.001
	100 %	+40	2512 500 007	5.3	0.000 000	0.002
	100 %	+50	2512 500 008	6.1	0.000 000	0.002
	Batt. Endpoint	+20	2512 500 006	4.3	0.000 000	0.002
2557.500	100 %	+20(Ref)	2557 500 005	0.0	0.000 000	0.000
	100 %	-30	2557 500 008	2.5	0.000 000	0.001
	100 %	-20	2557 500 011	5.6	0.000 000	0.002
	100 %	-10	2557 500 014	8.3	0.000 000	0.003
	100 %	0	2557 500 010	4.9	0.000 000	0.002
	100 %	+10	2557 500 010	4.9	0.000 000	0.002
	100 %	+30	2557 500 010	4.7	0.000 000	0.002
	100 %	+40	2557 500 013	8.0	0.000 000	0.003
	100 %	+50	2557 500 008	3.0	0.000 000	0.001
	Batt. Endpoint	+20	2557 500 011	5.9	0.000 000	0.002

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2515.000	100 %	+20(Ref)	2515 000 001	0.0	0.000 000	0.000
	100 %	-30	2514 999 978	-23.1	-0.000 001	-0.009
	100 %	-20	2514 999 979	-22.1	-0.000 001	-0.009
	100 %	-10	2514 999 980	-21.4	-0.000 001	-0.009
	100 %	0	2514 999 980	-21.5	-0.000 001	-0.009
	100 %	+10	2514 999 979	-22.3	-0.000 001	-0.009
	100 %	+30	2514 999 978	-22.7	-0.000 001	-0.009
	100 %	+40	2514 999 979	-22.1	-0.000 001	-0.009
	100 %	+50	2514 999 979	-22.3	-0.000 001	-0.009
	Batt. Endpoint	+20	2514 999 979	-22.5	-0.000 001	-0.009
2555.000	100 %	+20(Ref)	2554 999 976	0.0	0.000 000	0.000
	100 %	-30	2554 999 948	-27.6	-0.000 001	-0.011
	100 %	-20	2554 999 950	-26.5	-0.000 001	-0.010
	100 %	-10	2554 999 950	-26.3	-0.000 001	-0.010
	100 %	0	2554 999 948	-28.0	-0.000 001	-0.011
	100 %	+10	2554 999 951	-25.3	-0.000 001	-0.010
	100 %	+30	2554 999 951	-24.7	-0.000 001	-0.010
	100 %	+40	2554 999 951	-24.6	-0.000 001	-0.010
	100 %	+50	2554 999 949	-26.8	-0.000 001	-0.010
	Batt. Endpoint	+20	2554 999 950	-25.5	-0.000 001	-0.010

- ▣ BandWidth: 35 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2517.500	100 %	+20(Ref)	2517 499 997	0.0	0.000 000	0.000
	100 %	-30	2517 499 995	-1.3	0.000 000	-0.001
	100 %	-20	2517 500 006	9.1	0.000 000	0.004
	100 %	-10	2517 499 987	-9.7	0.000 000	-0.004
	100 %	0	2517 499 989	-8.0	0.000 000	-0.003
	100 %	+10	2517 500 001	3.9	0.000 000	0.002
	100 %	+30	2517 500 000	2.8	0.000 000	0.001
	100 %	+40	2517 499 996	-0.7	0.000 000	0.000
	100 %	+50	2517 499 992	-5.2	0.000 000	-0.002
	Batt. Endpoint	+20	2517 499 981	-15.5	-0.000 001	-0.006
2552.500	100 %	+20(Ref)	2552 499 999	0.0	0.000 000	0.000
	100 %	-30	2552 499 998	-1.5	0.000 000	-0.001
	100 %	-20	2552 499 997	-1.7	0.000 000	-0.001
	100 %	-10	2552 499 997	-2.4	0.000 000	-0.001
	100 %	0	2552 499 997	-1.9	0.000 000	-0.001
	100 %	+10	2552 499 995	-4.5	0.000 000	-0.002
	100 %	+30	2552 499 994	-4.9	0.000 000	-0.002
	100 %	+40	2552 499 993	-5.7	0.000 000	-0.002
	100 %	+50	2552 499 993	-6.4	0.000 000	-0.003
	Batt. Endpoint	+20	2552 499 996	-3.5	0.000 000	-0.001

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2520.000	100 %	+20(Ref)	2520 000 003	0.0	0.000 000	0.000
	100 %	-30	2520 000 009	5.5	0.000 000	0.002
	100 %	-20	2520 000 008	4.9	0.000 000	0.002
	100 %	-10	2520 000 006	2.6	0.000 000	0.001
	100 %	0	2520 000 008	4.3	0.000 000	0.002
	100 %	+10	2520 000 006	3.1	0.000 000	0.001
	100 %	+30	2520 000 008	4.7	0.000 000	0.002
	100 %	+40	2520 000 008	4.4	0.000 000	0.002
	100 %	+50	2520 000 009	5.4	0.000 000	0.002
	Batt. Endpoint	+20	2520 000 008	4.3	0.000 000	0.002
2550.000	100 %	+20(Ref)	2550 000 006	0.0	0.000 000	0.000
	100 %	-30	2550 000 006	0.2	0.000 000	0.000
	100 %	-20	2550 000 007	0.6	0.000 000	0.000
	100 %	-10	2550 000 008	2.4	0.000 000	0.001
	100 %	0	2550 000 010	4.0	0.000 000	0.002
	100 %	+10	2550 000 005	-0.7	0.000 000	0.000
	100 %	+30	2550 000 009	2.6	0.000 000	0.001
	100 %	+40	2550 000 009	2.6	0.000 000	0.001
	100 %	+50	2550 000 007	1.2	0.000 000	0.000
	Batt. Endpoint	+20	2550 000 007	0.8	0.000 000	0.000



### 9. TEST DATA(Ant F)

#### 9.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W	dBm	Size
2502.5	Sub6 n7/ 5 MHz [15 kHz]	PI/2 BPSK	-23.30	13.34	10.30	2.47	H	< 2.00	0.131	21.17	1	23
		QPSK	-23.35	13.29	10.30	2.47	H		0.129	21.12		
		16-QAM	-24.47	12.17	10.30	2.47	H		0.100	20.00		
		64-QAM	-25.92	10.72	10.30	2.47	H		0.072	18.55		
		256-QAM	-28.51	8.13	10.30	2.47	H		0.039	15.96		
2535.0		PI/2 BPSK	-21.66	14.59	10.30	2.52	H		0.173	22.37	1	23
		QPSK	-21.75	14.50	10.30	2.52	H		0.169	22.28		
		16-QAM	-22.82	13.43	10.30	2.52	H		0.132	21.21		
		64-QAM	-24.26	11.99	10.30	2.52	H		0.095	19.77		
		256-QAM	-26.92	9.33	10.30	2.52	H		0.052	17.11		
2567.5	PI/2 BPSK	-21.78	14.76	10.20	2.60	H	0.172	22.36	1	1		
	QPSK	-21.86	14.68	10.20	2.60	H	0.169	22.28				
	16-QAM	-22.84	13.70	10.20	2.60	H	0.135	21.30				
	64-QAM	-24.27	12.27	10.20	2.60	H	0.097	19.87				
	256-QAM	-26.87	9.67	10.20	2.60	H	0.053	17.27				

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
2505.0	Sub6 n7/ 10 MHz [15 kHz]	PI/2 BPSK	-22.91	13.73	10.30	2.49	H	< 2.00	0.143	21.54	1	50
		QPSK	-23.04	13.60	10.30	2.49	H		0.138	21.41		
		16-QAM	-24.01	12.63	10.30	2.49	H		0.111	20.44		
		64-QAM	-25.49	11.15	10.30	2.49	H		0.079	18.96		
		256-QAM	-28.05	8.59	10.30	2.49	H		0.044	16.40		
2535.0		PI/2 BPSK	-21.65	14.60	10.30	2.52	H		0.173	22.38	1	26
		QPSK	-21.86	14.39	10.30	2.52	H		0.165	22.17		
		16-QAM	-22.87	13.38	10.30	2.52	H		0.131	21.16		
		64-QAM	-24.20	12.05	10.30	2.52	H		0.096	19.83		
		256-QAM	-26.84	9.41	10.30	2.52	H		0.052	17.19		
2565.0	PI/2 BPSK	-21.78	14.96	10.20	2.60	H	0.180	22.56	1	26		
	QPSK	-21.88	14.86	10.20	2.60	H	0.176	22.46				
	16-QAM	-22.85	13.89	10.20	2.60	H	0.141	21.49				
	64-QAM	-24.43	12.31	10.20	2.60	H	0.098	19.91				
	256-QAM	-26.88	9.86	10.20	2.60	H	0.056	17.46				

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
2507.5	Sub6 n7/ 15 MHz [15 kHz]	PI/2 BPSK	-22.87	13.75	10.30	2.50	H	< 2.00	0.143	21.55	1	39
		QPSK	-23.04	13.58	10.30	2.50	H		0.138	21.38		
		16-QAM	-24.10	12.52	10.30	2.50	H		0.108	20.32		
		64-QAM	-25.37	11.25	10.30	2.50	H		0.080	19.05		
		256-QAM	-27.96	8.66	10.30	2.50	H		0.044	16.46		
2535.0		PI/2 BPSK	-21.46	14.79	10.30	2.52	H		0.181	22.57	1	77
		QPSK	-21.58	14.67	10.30	2.52	H		0.176	22.45		
		16-QAM	-22.51	13.74	10.30	2.52	H		0.142	21.52		
		64-QAM	-24.02	12.23	10.30	2.52	H		0.100	20.01		
		256-QAM	-26.53	9.72	10.30	2.52	H		0.056	17.50		
2562.5	PI/2 BPSK	-22.00	14.93	10.20	2.59	H	0.179	22.54	1	39		
	QPSK	-22.28	14.65	10.20	2.59	H	0.168	22.26				
	16-QAM	-23.23	13.70	10.20	2.59	H	0.135	21.31				
	64-QAM	-24.59	12.34	10.20	2.59	H	0.099	19.95				
	256-QAM	-27.22	9.71	10.20	2.59	H	0.054	17.32				

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
2510.0	Sub6 n7/ 20 MHz [15 kHz]	PI/2 BPSK	-22.34	14.28	10.30	2.50	H	< 2.00	0.162	22.08	1	104
		QPSK	-22.40	14.22	10.30	2.50	H		0.159	22.02		
		16-QAM	-23.15	13.47	10.30	2.50	H		0.134	21.27		
		64-QAM	-24.71	11.91	10.30	2.50	H		0.094	19.71		
		256-QAM	-27.35	9.27	10.30	2.50	H		0.051	17.07		
2535.0		PI/2 BPSK	-21.57	14.68	10.30	2.52	H		0.176	22.46	1	53
		QPSK	-21.75	14.50	10.30	2.52	H		0.169	22.28		
		16-QAM	-22.83	13.42	10.30	2.52	H		0.132	21.20		
		64-QAM	-24.00	12.25	10.30	2.52	H		0.101	20.03		
		256-QAM	-26.74	9.51	10.30	2.52	H		0.054	17.29		
2560.0	PI/2 BPSK	-21.90	15.03	10.20	2.59	H	0.184	22.64	1	1		
	QPSK	-21.98	14.95	10.20	2.59	H	0.180	22.56				
	16-QAM	-22.77	14.16	10.20	2.59	H	0.150	21.77				
	64-QAM	-24.30	12.63	10.20	2.59	H	0.106	20.24				
	256-QAM	-26.91	10.02	10.20	2.59	H	0.058	17.63				

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
2512.5	Sub6 n7/ 25 MHz [15 kHz]	PI/2 BPSK	-21.90	14.72	10.30	2.50	H	< 2.00	0.179	22.52	1	131
		QPSK	-22.09	14.53	10.30	2.50	H		0.171	22.33		
		16-QAM	-22.80	13.82	10.30	2.50	H		0.145	21.62		
		64-QAM	-24.37	12.25	10.30	2.50	H		0.101	20.05		
		256-QAM	-27.05	9.57	10.30	2.50	H		0.055	17.37		
2535.0		PI/2 BPSK	-21.46	14.79	10.30	2.52	H		0.181	22.57	1	66
		QPSK	-21.54	14.71	10.30	2.52	H		0.178	22.49		
		16-QAM	-22.70	13.55	10.30	2.52	H		0.136	21.33		
		64-QAM	-24.04	12.21	10.30	2.52	H		0.100	19.99		
		256-QAM	-26.68	9.57	10.30	2.52	H		0.054	17.35		
2557.5		PI/2 BPSK	-21.51	15.42	10.20	2.59	H		0.201	23.03	1	66
		QPSK	-21.70	15.23	10.20	2.59	H		0.192	22.84		
		16-QAM	-22.73	14.20	10.20	2.59	H		0.152	21.81		
		64-QAM	-24.10	12.83	10.20	2.59	H		0.111	20.44		
		256-QAM	-26.75	10.18	10.20	2.59	H		0.060	17.79		

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
2515.0	Sub6 n7/ 30 MHz [15 kHz]	PI/2 BPSK	-21.59	14.91	10.30	2.52	H	< 2.00	0.186	22.69	1	158
		QPSK	-21.65	14.85	10.30	2.52	H		0.183	22.63		
		16-QAM	-22.84	13.66	10.30	2.52	H		0.139	21.44		
		64-QAM	-24.37	12.13	10.30	2.52	H		0.098	19.91		
		256-QAM	-26.83	9.67	10.30	2.52	H		0.056	17.45		
2535.0		PI/2 BPSK	-21.32	14.93	10.30	2.52	H		0.187	22.71	1	158
		QPSK	-21.50	14.75	10.30	2.52	H		0.179	22.53		
		16-QAM	-22.43	13.82	10.30	2.52	H		0.145	21.60		
		64-QAM	-23.97	12.28	10.30	2.52	H		0.101	20.06		
		256-QAM	-26.65	9.60	10.30	2.52	H		0.055	17.38		
2555.0	PI/2 BPSK	-21.36	15.29	10.20	2.57	H	0.196	22.92	1	1		
	QPSK	-21.42	15.23	10.20	2.57	H	0.193	22.86				
	16-QAM	-22.58	14.07	10.20	2.57	H	0.148	21.70				
	64-QAM	-23.87	12.78	10.20	2.57	H	0.110	20.41				
	256-QAM	-26.34	10.31	10.20	2.57	H	0.062	17.94				

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
2517.5	Sub6 n7/ 35 MHz [15 kHz]	PI/2 BPSK	-21.59	14.85	10.30	2.53	H	< 2.00	0.183	22.62	1	186
		QPSK	-21.67	14.77	10.30	2.53	H		0.180	22.54		
		16-QAM	-22.58	13.86	10.30	2.53	H		0.146	21.63		
		64-QAM	-24.07	12.37	10.30	2.53	H		0.103	20.14		
		256-QAM	-26.65	9.79	10.30	2.53	H		0.057	17.56		
2535.0		PI/2 BPSK	-21.38	14.87	10.30	2.52	H		0.184	22.65	1	94
		QPSK	-21.44	14.81	10.30	2.52	H		0.182	22.59		
		16-QAM	-22.77	13.48	10.30	2.52	H		0.134	21.26		
		64-QAM	-24.00	12.25	10.30	2.52	H		0.101	20.03		
		256-QAM	-26.64	9.61	10.30	2.52	H		0.055	17.39		
2552.5	PI/2 BPSK	-21.47	15.04	10.20	2.56	H	0.185	22.68	1	1		
	QPSK	-21.64	14.87	10.20	2.56	H	0.178	22.51				
	16-QAM	-22.72	13.79	10.20	2.56	H	0.139	21.43				
	64-QAM	-23.93	12.58	10.20	2.56	H	0.105	20.22				
	256-QAM	-26.56	9.95	10.20	2.56	H	0.057	17.59				

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
2520.0	Sub6 n7/ 40 MHz [15 kHz]	PI/2 BPSK	-21.56	14.81	10.30	2.53	H	< 2.00	0.181	22.58	1	214
		QPSK	-21.65	14.72	10.30	2.53	H		0.177	22.49		
		16-QAM	-22.70	13.67	10.30	2.53	H		0.139	21.44		
		64-QAM	-23.99	12.38	10.30	2.53	H		0.104	20.15		
		256-QAM	-26.68	9.69	10.30	2.53	H		0.056	17.46		
2535.0		PI/2 BPSK	-21.50	14.75	10.30	2.52	H		0.179	22.53	1	108
		QPSK	-21.65	14.60	10.30	2.52	H		0.173	22.38		
		16-QAM	-22.86	13.39	10.30	2.52	H		0.131	21.17		
		64-QAM	-23.96	12.29	10.30	2.52	H		0.102	20.07		
		256-QAM	-26.65	9.60	10.30	2.52	H		0.055	17.38		
2550.0		PI/2 BPSK	-21.79	14.58	10.20	2.55	H		0.167	22.23	1	1
		QPSK	-21.90	14.47	10.20	2.55	H		0.163	22.12		
		16-QAM	-22.87	13.50	10.20	2.55	H		0.130	21.15		
		64-QAM	-23.50	12.87	10.20	2.55	H		0.113	20.52		
		256-QAM	-26.83	9.54	10.20	2.55	H		0.052	17.19		



**8.2 RADIATED SPURIOUS EMISSIONS**

- ▣ NR Band: N7
- ▣ Bandwidth: 5 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meters
- ▣ SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
500500 (2502.5)	5 005.00	-63.17	10.70	-64.45	3.61	V	-57.36	-25.00	1	23
	7 507.50	-65.29	11.10	-58.22	4.50	V	-51.62			
	10 010.00	-64.44	11.20	-56.30	5.27	V	-50.37			
	12 512.50	-64.54	12.10	-55.23	6.04	V	-49.17			
	15 015.00	-60.65	13.80	-54.14	6.65	V	-46.99			
507000 (2535.0)	5 070.00	-62.25	10.70	-63.53	3.62	V	-56.45			
	7 605.00	-65.21	11.20	-58.20	4.53	V	-51.52			
	10 140.00	-63.80	11.10	-54.14	5.31	V	-48.35			
	12 675.00	-64.09	11.90	-54.23	6.06	V	-48.39			
	15 210.00	-58.05	14.40	-53.33	6.67	V	-45.60			
513500 (2567.5)	5 135.00	-61.95	10.80	-63.52	3.62	V	-56.33			
	7 702.50	-64.64	11.00	-57.57	4.57	V	-51.14			
	10 270.00	-63.21	11.00	-52.41	5.35	V	-46.76			
	12 837.50	-64.04	11.80	-53.90	6.06	V	-48.16			
	15 405.00	-59.17	15.30	-53.26	6.75	V	-44.71			

- NR Band: N7
- Bandwidth: 10 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
501000 (2505.0)	5 010.00	-62.41	10.70	-63.62	3.59	V	-56.51	-25.00	1	50
	7 515.00	-63.51	11.10	-56.40	4.51	V	-49.81			
	10 020.00	-63.29	11.20	-54.20	5.28	V	-48.28			
	12 525.00	-63.33	12.10	-53.45	6.02	V	-47.37			
	15 030.00	-57.83	13.80	-51.51	6.64	V	-44.35			
507000 (2535.0)	5 070.00	-61.28	10.70	-62.56	3.62	V	-55.48			
	7 605.00	-62.28	11.20	-55.27	4.53	V	-48.59			
	10 140.00	-63.61	11.10	-53.95	5.31	V	-48.16			
	12 675.00	-64.30	11.90	-54.44	6.06	V	-48.60			
	15 210.00	-61.09	14.40	-56.37	6.67	V	-48.64			
513000 (2565.0)	5 130.00	-63.45	10.80	-64.68	3.62	V	-57.50			
	7 695.00	-63.31	11.05	-56.26	4.57	V	-49.78			
	10 260.00	-65.65	11.00	-55.29	5.35	V	-49.64			
	12 825.00	-65.65	11.80	-54.99	6.08	V	-49.27			
	15 390.00	-61.31	15.10	-55.30	6.75	V	-46.95			

- NR Band: N7
- Bandwidth: 15 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
501500 (2507.5)	5 015.00	-59.00	10.70	-60.37	3.57	V	-53.24	-25.00	1	39
	7 522.50	-63.07	11.10	-55.93	4.51	V	-49.34			
	10 030.00	-61.53	11.20	-52.97	5.27	V	-47.04			
	12 537.50	-62.46	12.10	-52.61	6.00	V	-46.51			
	15 045.00	-57.29	13.90	-51.18	6.66	V	-43.94			
507000 (2535.0)	5 070.00	-63.51	10.70	-64.79	3.62	V	-57.71		1	77
	7 605.00	-64.41	11.20	-57.40	4.53	V	-50.72			
	10 140.00	-63.47	11.10	-53.81	5.31	V	-48.02			
	12 675.00	-63.53	11.90	-53.67	6.06	V	-47.83			
	15 210.00	-59.00	14.40	-54.28	6.67	V	-46.55			
512500 (2562.5)	5 125.00	-61.42	10.80	-62.56	3.63	V	-55.39		1	39
	7 687.50	-64.61	11.10	-57.58	4.57	V	-51.05			
	10 250.00	-62.51	11.00	-51.77	5.35	V	-46.12			
	12 812.50	-64.60	11.80	-53.45	6.10	V	-47.75			
	15 375.00	-59.59	15.10	-53.78	6.74	V	-45.42			

- NR Band: N7
- Bandwidth: 20 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
502000 (2510.0)	5 020.00	-62.04	10.70	-63.57	3.55	V	-56.42	-25.00	1	104
	7 530.00	-64.65	11.10	-57.18	4.50	V	-50.58			
	10 040.00	-63.86	11.20	-54.60	5.26	V	-48.66			
	12 550.00	-63.87	12.10	-54.55	5.99	V	-48.44			
	15 060.00	-59.33	14.00	-53.52	6.65	V	-46.17			
507000 (2535.0)	5 070.00	-63.09	10.70	-64.37	3.62	V	-57.29		1	53
	7 605.00	-64.96	11.20	-57.95	4.53	V	-51.27			
	10 140.00	-64.01	11.10	-54.35	5.31	V	-48.56			
	12 675.00	-64.71	11.90	-54.85	6.06	V	-49.01			
	15 210.00	-60.35	14.40	-55.63	6.67	V	-47.90			
512000 (2560.0)	5 120.00	-61.36	10.80	-62.41	3.64	V	-55.25		1	1
	7 680.00	-63.18	11.10	-56.24	4.55	V	-49.69			
	10 240.00	-64.76	11.00	-54.85	5.33	V	-49.18			
	12 800.00	-65.32	11.80	-54.16	6.10	V	-48.46			
	15 360.00	-60.57	15.10	-55.04	6.72	V	-46.66			

- NR Band: N7
- Bandwidth: 25 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
502500 (2512.5)	5 025.00	-61.10	10.70	-62.91	3.56	V	-55.77	-25.00	1	131
	7 537.50	-65.57	11.10	-58.09	4.50	V	-51.49			
	10 050.00	-62.85	11.10	-54.42	5.27	V	-48.59			
	12 562.50	-63.86	12.10	-54.55	6.01	V	-48.46			
	15 075.00	-59.11	14.00	-53.86	6.65	V	-46.51			
507000 (2535.0)	5 070.00	-62.76	10.70	-64.04	3.62	H	-56.96		1	66
	7 605.00	-64.91	11.20	-57.90	4.53	H	-51.22			
	10 140.00	-63.54	11.10	-53.88	5.31	H	-48.09			
	12 675.00	-65.39	11.90	-55.53	6.06	H	-49.69			
	15 210.00	-62.00	14.40	-57.28	6.67	H	-49.55			
511500 (2557.5)	5 115.00	-63.99	10.80	-65.18	3.66	V	-58.03		1	66
	7 672.50	-65.59	11.10	-58.41	4.54	V	-51.85			
	10 230.00	-65.14	11.00	-55.56	5.33	V	-49.89			
	12 787.50	-64.41	11.80	-53.56	6.12	V	-47.88			
	15 345.00	-61.80	15.00	-56.49	6.72	V	-48.21			

- NR Band: N7
- Bandwidth: 30 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB			
									Size	Offset		
503000 (2515.0)	5 030.00	-62.24	10.70	-64.34	3.56	V	-57.20	-25.00	1	158		
	7 545.00	-64.46	11.10	-57.11	4.51	V	-50.52					
	10 060.00	-63.55	11.10	-54.76	5.27	V	-48.93					
	12 575.00	-64.32	12.10	-54.80	6.05	V	-48.75					
	15 090.00	-60.50	14.00	-55.36	6.66	V	-48.02					
507000 (2535.0)	5 070.00	-61.25	10.70	-62.53	3.62	V	-55.45		-25.00	1	158	
	7 605.00	-65.06	11.20	-58.05	4.53	V	-51.37					
	10 140.00	-63.85	11.10	-54.19	5.31	V	-48.40					
	12 675.00	-64.10	11.90	-54.24	6.06	V	-48.40					
	15 210.00	-61.27	14.40	-56.55	6.67	V	-48.82					
511000 (2555.0)	5 110.00	-63.18	10.80	-64.51	3.67	V	-57.38			-25.00	1	1
	7 665.00	-64.85	11.10	-57.79	4.54	V	-51.23					
	10 220.00	-64.09	11.00	-54.11	5.32	V	-48.43					
	12 775.00	-66.19	11.80	-55.33	6.09	V	-49.61					
	15 330.00	-61.31	14.90	-56.14	6.71	V	-47.95					

- NR Band: N7
- Bandwidth: 35 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
503500 (2517.5)	5 035.00	-62.03	10.70	-64.06	3.58	V	-56.94	-25.00	1	186
	7 552.50	-65.18	11.10	-58.08	4.51	V	-51.49			
	10 070.00	-64.34	11.10	-55.51	5.30	V	-49.71			
	12 587.50	-65.37	12.10	-55.69	6.06	V	-49.65			
	15 105.00	-61.76	14.10	-56.02	6.68	V	-48.60			
507000 (2535.0)	5 070.00	-62.03	10.70	-63.31	3.62	V	-56.23		1	94
	7 605.00	-65.18	11.20	-58.17	4.53	V	-51.49			
	10 140.00	-64.05	11.10	-54.39	5.31	V	-48.60			
	12 675.00	-65.37	11.90	-55.51	6.06	V	-49.67			
	15 210.00	-61.19	14.40	-56.47	6.67	V	-48.74			
510500 (2552.5)	5 105.00	-62.10	10.80	-63.72	3.66	V	-56.58		1	1
	7 657.50	-65.03	11.10	-58.14	4.53	V	-51.57			
	10 210.00	-64.21	11.00	-54.49	5.32	V	-48.81			
	12 762.50	-66.70	11.80	-55.68	6.07	V	-49.95			
	15 315.00	-61.18	14.90	-55.62	6.71	V	-47.43			

- NR Band: N7
- Bandwidth: 40 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 15 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
504000 (2520.0)	5 040.00	-61.32	10.70	-63.29	3.60	V	-56.19	-25.00	1	214
	7 560.00	-65.57	11.10	-58.58	4.51	V	-51.99			
	10 080.00	-63.26	11.10	-54.21	5.29	V	-48.40			
	12 600.00	-64.79	12.00	-55.07	6.06	V	-49.13			
	15 120.00	-59.99	14.10	-53.90	6.68	V	-46.48			
507000 (2535.0)	5 070.00	-59.27	10.70	-60.55	3.62	V	-53.47			
	7 605.00	-63.10	11.20	-56.09	4.53	V	-49.41		1	108
	10 140.00	-63.41	11.10	-53.75	5.31	V	-47.96			
	12 675.00	-64.26	11.90	-54.40	6.06	V	-48.56			
	15 210.00	-59.47	14.40	-54.75	6.67	V	-47.02			
510000 (2550.0)	5 100.00	-61.50	10.80	-63.40	3.66	V	-56.26			
	7 650.00	-65.09	11.10	-58.24	4.53	V	-51.67			
	10 200.00	-64.89	11.00	-54.46	5.33	V	-48.79			
	12 750.00	-65.89	11.80	-54.93	6.04	V	-49.17			
	15 300.00	-60.53	14.90	-54.43	6.72	V	-46.25			



**9.3 PEAK-TO-AVERAGE RATIO**

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB )
Sub6 n7	5 MHz	2535.0	BPSK	25	0	3.80
			QPSK			4.43
			16-QAM			5.42
			64-QAM			5.85
			256-QAM			6.63
	10 MHz		BPSK	50		3.70
			QPSK			4.49
			16-QAM			5.41
			64-QAM			5.92
			256-QAM			6.71
	15 MHz		BPSK	75		3.77
			QPSK			4.31
			16-QAM			5.28
			64-QAM			5.69
			256-QAM			6.43
	20 MHz		BPSK	100		3.77
			QPSK			4.35
			16-QAM			5.30
			64-QAM			5.73
			256-QAM			6.48
	25 MHz		BPSK	128		3.98
			QPSK			4.51
			16-QAM			5.74
			64-QAM			6.01
			256-QAM			6.55
	30 MHz		BPSK	160		4.07
			QPSK			4.55
			16-QAM			5.47
			64-QAM			5.93
			256-QAM			6.50
	35 MHz		BPSK	180		4.16
			QPSK			4.66
16-QAM		5.43				
64-QAM		5.86				
256-QAM		6.47				
40 MHz	BPSK	216	3.97			
	QPSK		4.61			
	16-QAM		5.54			
	64-QAM		6.03			
	256-QAM		6.60			

**Note:**

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 314 ~ 353.

**9.4 OCCUPIED BANDWIDTH**

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data ( MHz )
Sub6 n7	5 MHz	2535.0	BPSK	25	0	4.5147
			QPSK			4.4864
			16-QAM			4.4900
			64-QAM			4.5129
			256-QAM			4.5292
	10 MHz		BPSK	50		8.9885
			QPSK			9.0059
			16-QAM			8.9892
			64-QAM			8.9681
			256-QAM			9.0051
	15 MHz		BPSK	75		13.477
			QPSK			13.496
			16-QAM			13.505
			64-QAM			13.512
			256-QAM			13.449
	20 MHz		BPSK	100		17.928
			QPSK			17.965
			16-QAM			17.904
			64-QAM			17.937
			256-QAM			17.982
	25 MHz		BPSK	128		23.023
			QPSK			22.899
			16-QAM			22.896
			64-QAM			22.941
			256-QAM			22.968
	30 MHz		BPSK	160		28.681
			QPSK			28.698
			16-QAM			28.670
			64-QAM			28.689
			256-QAM			28.648
	35 MHz		BPSK	180		32.286
			QPSK			32.259
16-QAM		32.243				
64-QAM		32.229				
256-QAM		32.344				
40 MHz	BPSK	216	38.696			
	QPSK		38.697			
	16-QAM		38.712			
	64-QAM		38.693			
	256-QAM		38.833			

**Note:**

1. Plots of the EUT's Occupied Bandwidth are shown Page 274 ~ 313.

**9.5 CONDUCTED SPURIOUS EMISSIONS**

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n7	5	2502.5	4.0105	30.200	-70.750	-40.550	-25.00
		2535.0	4.0993	30.200	-71.052	-40.852	
		2567.5	9.4387	30.815	-70.401	-39.586	
	10	2505.0	4.9602	30.200	-70.380	-40.180	
		2535.0	8.2727	30.815	-71.296	-40.481	
		2565.0	7.1431	30.815	-71.349	-40.534	
	15	2507.5	9.1251	30.815	-70.922	-40.107	
		2535.0	8.0489	30.815	-71.003	-40.188	
		2562.5	5.7707	30.815	-71.068	-40.253	
	20	2510.0	4.9417	30.200	-70.963	-40.763	
		2535.0	9.9427	30.815	-71.102	-40.287	
		2560.0	4.0594	30.200	-70.314	-40.114	
	25	2512.5	9.0882	30.815	-70.498	-39.683	
		2535.0	8.2926	30.815	-71.083	-40.268	
		2557.5	8.8609	30.815	-70.095	-39.280	
	30	2515.0	8.3036	30.815	-71.420	-40.605	
		2535.0	8.2941	30.815	-71.370	-40.555	
		2555.0	3.7598	30.200	-70.685	-40.485	
	35	2517.5	9.6790	30.815	-70.545	-39.730	
		2535.0	8.3036	30.815	-71.009	-40.194	
		2552.5	9.0688	30.815	-71.152	-40.337	
	40	2520.0	3.7972	30.200	-70.950	-40.750	
		2535.0	8.6127	30.815	-70.984	-40.169	
		2550.0	4.9382	30.200	-71.640	-41.440	

**Note:**

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 410 ~ 455.
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	27.494
1 – 5	30.200
5 – 10	30.815
10 – 15	31.340
15 – 20	31.713
Above 20	32.355

**9.6 CHANNEL EDGE**

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	2 500 MHz ~ 2 496 MHz	C.E ~ (C.E +1 MHz)	2 490.5 MHz ~ 2 496 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
5	2502.5	BPSK	Full RB	-21.47	-23.69	-31.28	-25.87	-37.81	-32.06	-29.30
10	2505.0	BPSK	Full RB	-24.97	-30.19	-32.98	-27.06	-36.18	-32.93	-30.52
15	2507.5	BPSK	Full RB	-26.08	-36.01	-35.58	-32.41	-35.88	-32.28	-32.81
20	2510.0	BPSK	Full RB	-27.39	-33.28	-38.40	-31.63	-39.74	-32.44	-34.34
25	2512.5	BPSK	Full RB	-27.15	-31.36	-35.60	-31.50	-35.16	-34.53	-42.22
30	2515.0	BPSK	Full RB	-25.69	-25.33	-30.07	-24.63	-34.46	-28.63	-40.81
35	2517.5	BPSK	Full RB	-26.48	-33.60	-34.28	-31.87	-35.05	-33.68	-45.88
40	2520.0	BPSK	Full RB	-15.74	-16.33	-28.73	-26.92	-31.19	-28.82	-47.39
Limit(dBm)				-10.0	-10.0	-13.0	-10.0	-25.0	-13.0	-25.0

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	C.E ~ (C.E ± 1 MHz)		(C.E ± 1 MHz) ~ (C.E ± 5 MHz)	
				Lower	Upper	Lower	Upper
5	2535.0	BPSK	Full RB	-21.92	-23.81	-28.84	-27.28
	2567.5	BPSK	Full RB	-19.68	-22.12	-25.55	-24.06
10	2535.0	BPSK	Full RB	-23.15	-33.05	-33.21	-29.38
	2565.0	BPSK	Full RB	-25.61	-31.69	-30.76	-26.75
15	2535.0	BPSK	Full RB	-26.78	-34.13	-33.23	-28.80
	2562.5	BPSK	Full RB	-27.20	-34.63	-27.79	-28.39
20	2535.0	BPSK	Full RB	-26.04	-30.48	-30.84	-28.37
	2560.0	BPSK	Full RB	-25.92	-32.47	-27.92	-31.11
25	2535.0	BPSK	Full RB	-26.33	-32.48	-28.97	-30.02
	2557.5	BPSK	Full RB	-25.48	-31.00	-26.35	-29.46
30	2535.0	BPSK	Full RB	-26.99	-27.49	-33.17	-32.15
	2555.0	BPSK	Full RB	-25.17	-26.48	-27.76	-28.19
35	2535.0	BPSK	Full RB	-24.81	-32.95	-32.17	-29.56
	2552.5	BPSK	Full RB	-23.32	-29.19	-25.73	-27.45
40	2535.0	BPSK	Full RB	-15.75	-17.68	-33.12	-31.61
	2550.0	BPSK	Full RB	-15.51	-17.85	-30.85	-32.16
Limit(dBm)				-10.0		-10.0	

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	(C.E ± 5 MHz)		Above (C.E ± X MHz)	
				~			
				(C.E ± X MHz)		Lower	Upper
5	2535.0	BPSK	Full RB	-34.05	-33.34	-32.40	-31.05
	2567.5	BPSK	Full RB	-33.90	-37.16	-31.38	-36.08
10	2535.0	BPSK	Full RB	-34.28	-29.63	-33.20	-32.85
	2565.0	BPSK	Full RB	-30.05	-27.93	-30.04	-43.16
15	2535.0	BPSK	Full RB	-32.49	-27.45	-36.95	-34.86
	2562.5	BPSK	Full RB	-26.96	-29.21	-34.52	-51.66
20	2535.0	BPSK	Full RB	-29.46	-28.80	-38.90	-35.81
	2560.0	BPSK	Full RB	-26.73	-34.62	-35.89	-53.80
25	2535.0	BPSK	Full RB	-27.80	-29.42	-41.93	-33.77
	2557.5	BPSK	Full RB	-26.83	-33.04	-35.67	-54.85
30	2535.0	BPSK	Full RB	-32.62	-33.82	-39.92	-48.27
	2555.0	BPSK	Full RB	-27.93	-32.52	-36.76	-54.60
35	2535.0	BPSK	Full RB	-30.86	-30.72	-45.33	-54.50
	2552.5	BPSK	Full RB	-29.04	-32.98	-43.40	-54.77
40	2535.0	BPSK	Full RB	-34.53	-33.81	-51.82	-54.66
	2550.0	BPSK	Full RB	-30.44	-33.20	-41.23	-54.97
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) = Cable Loss + Ext. Attenuator + Power Splitter
  - Result(dBm) = Reading + Factor
4. Plots of the EUT's Channel Edge are shown Page 354 ~ 409.

**9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE**

- ▣ BandWidth: 5 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2502.500	100 %	+20(Ref)	2502 499 995	0.0	0.000 000	0.000
	100 %	-30	2502 499 990	-5.3	0.000 000	-0.002
	100 %	-20	2502 499 986	-8.6	0.000 000	-0.003
	100 %	-10	2502 499 987	-8.0	0.000 000	-0.003
	100 %	0	2502 499 989	-6.2	0.000 000	-0.002
	100 %	+10	2502 499 988	-7.3	0.000 000	-0.003
	100 %	+30	2502 499 987	-8.1	0.000 000	-0.003
	100 %	+40	2502 499 989	-5.9	0.000 000	-0.002
	100 %	+50	2502 499 987	-7.7	0.000 000	-0.003
	Batt. Endpoint	+20	2502 499 990	-5.2	0.000 000	-0.002
2567.500	100 %	+20(Ref)	2567 499 995	0.0	0.000 000	0.000
	100 %	-30	2567 499 994	-0.4	0.000 000	0.000
	100 %	-20	2567 499 994	-0.4	0.000 000	0.000
	100 %	-10	2567 499 996	1.2	0.000 000	0.000
	100 %	0	2567 499 993	-2.3	0.000 000	-0.001
	100 %	+10	2567 499 993	-1.5	0.000 000	-0.001
	100 %	+30	2567 499 989	-5.6	0.000 000	-0.002
	100 %	+40	2567 499 993	-2.2	0.000 000	-0.001
	100 %	+50	2567 499 990	-4.7	0.000 000	-0.002
	Batt. Endpoint	+20	2567 499 992	-2.4	0.000 000	-0.001

- ▣ BandWidth: 10 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2505.000	100 %	+20(Ref)	2505 000 002	0.0	0.000 000	0.000
	100 %	-30	2505 000 001	-1.0	0.000 000	0.000
	100 %	-20	2505 000 002	0.7	0.000 000	0.000
	100 %	-10	2505 000 005	3.2	0.000 000	0.001
	100 %	0	2505 000 001	-0.3	0.000 000	0.000
	100 %	+10	2505 000 000	-2.0	0.000 000	-0.001
	100 %	+30	2505 000 003	1.9	0.000 000	0.001
	100 %	+40	2505 000 003	1.8	0.000 000	0.001
	100 %	+50	2505 000 001	-0.9	0.000 000	0.000
	Batt. Endpoint	+20	2505 000 003	1.7	0.000 000	0.001
2565.000	100 %	+20(Ref)	2564 999 998	0.0	0.000 000	0.000
	100 %	-30	2564 999 995	-3.3	0.000 000	-0.001
	100 %	-20	2564 999 992	-5.7	0.000 000	-0.002
	100 %	-10	2564 999 998	0.2	0.000 000	0.000
	100 %	0	2564 999 996	-2.0	0.000 000	-0.001
	100 %	+10	2564 999 994	-3.7	0.000 000	-0.001
	100 %	+30	2564 999 993	-4.6	0.000 000	-0.002
	100 %	+40	2564 999 995	-2.4	0.000 000	-0.001
	100 %	+50	2564 999 995	-3.1	0.000 000	-0.001
	Batt. Endpoint	+20	2564 999 996	-1.9	0.000 000	-0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2507.500	100 %	+20(Ref)	2507 500 003	0.0	0.000 000	0.000
	100 %	-30	2507 500 006	3.2	0.000 000	0.001
	100 %	-20	2507 500 003	-0.4	0.000 000	0.000
	100 %	-10	2507 500 005	1.8	0.000 000	0.001
	100 %	0	2507 500 008	4.3	0.000 000	0.002
	100 %	+10	2507 500 005	1.9	0.000 000	0.001
	100 %	+30	2507 500 005	1.8	0.000 000	0.001
	100 %	+40	2507 500 007	3.8	0.000 000	0.002
	100 %	+50	2507 500 008	5.3	0.000 000	0.002
	Batt. Endpoint	+20	2507 500 005	1.9	0.000 000	0.001
2562.500	100 %	+20(Ref)	2562 500 004	0.0	0.000 000	0.000
	100 %	-30	2562 500 005	1.3	0.000 000	0.001
	100 %	-20	2562 500 006	2.2	0.000 000	0.001
	100 %	-10	2562 500 006	2.4	0.000 000	0.001
	100 %	0	2562 500 007	3.8	0.000 000	0.001
	100 %	+10	2562 500 004	0.5	0.000 000	0.000
	100 %	+30	2562 500 005	0.9	0.000 000	0.000
	100 %	+40	2562 500 002	-1.4	0.000 000	-0.001
	100 %	+50	2562 500 006	2.6	0.000 000	0.001
	Batt. Endpoint	+20	2562 500 008	3.9	0.000 000	0.002



- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2510.000	100 %	+20(Ref)	2510 000 000	0.0	0.000 000	0.000
	100 %	-30	2509 999 996	-4.3	0.000 000	-0.002
	100 %	-20	2509 999 999	-0.7	0.000 000	0.000
	100 %	-10	2509 999 997	-2.5	0.000 000	-0.001
	100 %	0	2509 999 998	-2.2	0.000 000	-0.001
	100 %	+10	2509 999 998	-1.5	0.000 000	-0.001
	100 %	+30	2509 999 997	-2.7	0.000 000	-0.001
	100 %	+40	2509 999 996	-3.8	0.000 000	-0.002
	100 %	+50	2509 999 998	-1.4	0.000 000	-0.001
	Batt. Endpoint	+20	2509 999 997	-3.0	0.000 000	-0.001
2560.000	100 %	+20(Ref)	2560 000 004	0.0	0.000 000	0.000
	100 %	-30	2560 000 006	2.2	0.000 000	0.001
	100 %	-20	2560 000 007	2.9	0.000 000	0.001
	100 %	-10	2560 000 007	2.9	0.000 000	0.001
	100 %	0	2560 000 005	1.4	0.000 000	0.001
	100 %	+10	2560 000 008	4.0	0.000 000	0.002
	100 %	+30	2560 000 005	1.2	0.000 000	0.000
	100 %	+40	2560 000 005	1.2	0.000 000	0.000
	100 %	+50	2560 000 006	1.7	0.000 000	0.001
	Batt. Endpoint	+20	2560 000 009	4.8	0.000 000	0.002

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2512.500	100 %	+20(Ref)	2512 500 004	0.0	0.000 000	0.000
	100 %	-30	2512 500 008	3.9	0.000 000	0.002
	100 %	-20	2512 500 006	2.5	0.000 000	0.001
	100 %	-10	2512 500 007	3.0	0.000 000	0.001
	100 %	0	2512 500 009	4.6	0.000 000	0.002
	100 %	+10	2512 500 008	4.1	0.000 000	0.002
	100 %	+30	2512 500 007	2.6	0.000 000	0.001
	100 %	+40	2512 500 008	3.8	0.000 000	0.001
	100 %	+50	2512 500 008	4.3	0.000 000	0.002
	Batt. Endpoint	+20	2512 500 006	2.0	0.000 000	0.001
2557.500	100 %	+20(Ref)	2557 500 004	0.0	0.000 000	0.000
	100 %	-30	2557 500 011	7.4	0.000 000	0.003
	100 %	-20	2557 500 009	5.5	0.000 000	0.002
	100 %	-10	2557 500 010	6.0	0.000 000	0.002
	100 %	0	2557 500 011	7.1	0.000 000	0.003
	100 %	+10	2557 500 009	5.5	0.000 000	0.002
	100 %	+30	2557 500 010	6.8	0.000 000	0.003
	100 %	+40	2557 500 008	4.2	0.000 000	0.002
	100 %	+50	2557 500 009	5.2	0.000 000	0.002
	Batt. Endpoint	+20	2557 500 010	5.9	0.000 000	0.002

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2515.000	100 %	+20(Ref)	2515 000 009	0.0	0.000 000	0.000
	100 %	-30	2515 000 017	8.1	0.000 000	0.003
	100 %	-20	2515 000 016	6.9	0.000 000	0.003
	100 %	-10	2515 000 020	11.1	0.000 000	0.004
	100 %	0	2515 000 020	10.9	0.000 000	0.004
	100 %	+10	2515 000 017	8.3	0.000 000	0.003
	100 %	+30	2515 000 019	10.3	0.000 000	0.004
	100 %	+40	2515 000 017	8.6	0.000 000	0.003
	100 %	+50	2515 000 016	7.8	0.000 000	0.003
	Batt. Endpoint	+20	2515 000 017	8.7	0.000 000	0.003
2555.000	100 %	+20(Ref)	2555 000 001	0.0	0.000 000	0.000
	100 %	-30	2555 000 003	1.3	0.000 000	0.001
	100 %	-20	2555 000 005	3.4	0.000 000	0.001
	100 %	-10	2555 000 005	3.4	0.000 000	0.001
	100 %	0	2555 000 005	3.7	0.000 000	0.001
	100 %	+10	2555 000 002	0.6	0.000 000	0.000
	100 %	+30	2555 000 002	0.9	0.000 000	0.000
	100 %	+40	2555 000 005	4.2	0.000 000	0.002
	100 %	+50	2555 000 000	-1.1	0.000 000	0.000
	Batt. Endpoint	+20	2555 000 002	1.2	0.000 000	0.000

- ▣ BandWidth: 35 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

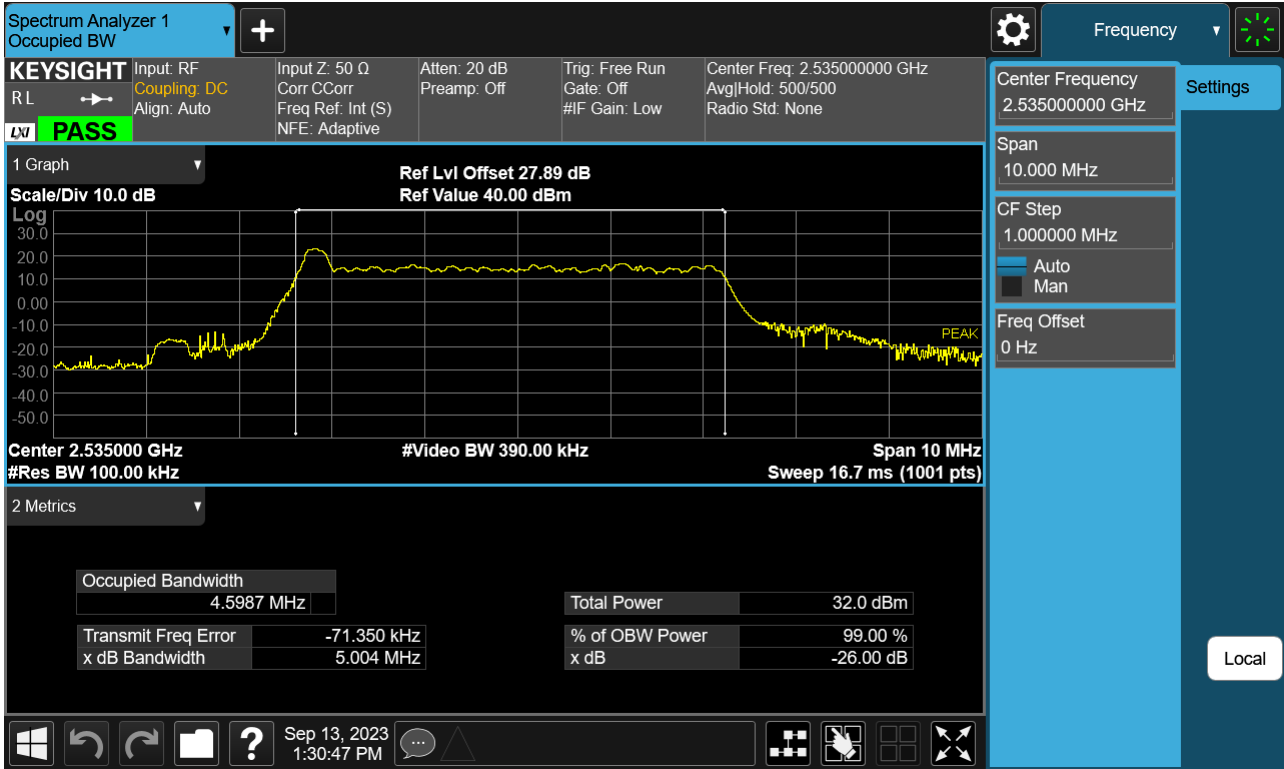
Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2517.500	100 %	+20(Ref)	2517 500 005	0.0	0.000 000	0.000
	100 %	-30	2517 500 012	7.8	0.000 000	0.003
	100 %	-20	2517 499 940	-64.4	-0.000 003	-0.026
	100 %	-10	2517 500 008	3.7	0.000 000	0.001
	100 %	0	2517 500 011	5.9	0.000 000	0.002
	100 %	+10	2517 500 004	-1.0	0.000 000	0.000
	100 %	+30	2517 500 001	-3.5	0.000 000	-0.001
	100 %	+40	2517 500 004	-0.6	0.000 000	0.000
	100 %	+50	2517 499 993	-11.6	0.000 000	-0.005
	Batt. Endpoint	+20	2517 500 005	0.1	0.000 000	0.000
2552.500	100 %	+20(Ref)	2552 499 999	0.0	0.000 000	0.000
	100 %	-30	2552 499 997	-1.8	0.000 000	-0.001
	100 %	-20	2552 499 996	-3.0	0.000 000	-0.001
	100 %	-10	2552 499 996	-2.7	0.000 000	-0.001
	100 %	0	2552 500 093	93.8	0.000 004	0.037
	100 %	+10	2552 499 996	-2.6	0.000 000	-0.001
	100 %	+30	2552 499 991	-7.4	0.000 000	-0.003
	100 %	+40	2552 499 996	-2.6	0.000 000	-0.001
	100 %	+50	2552 499 989	-9.3	0.000 000	-0.004
	Batt. Endpoint	+20	2552 500 001	2.2	0.000 000	0.001

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

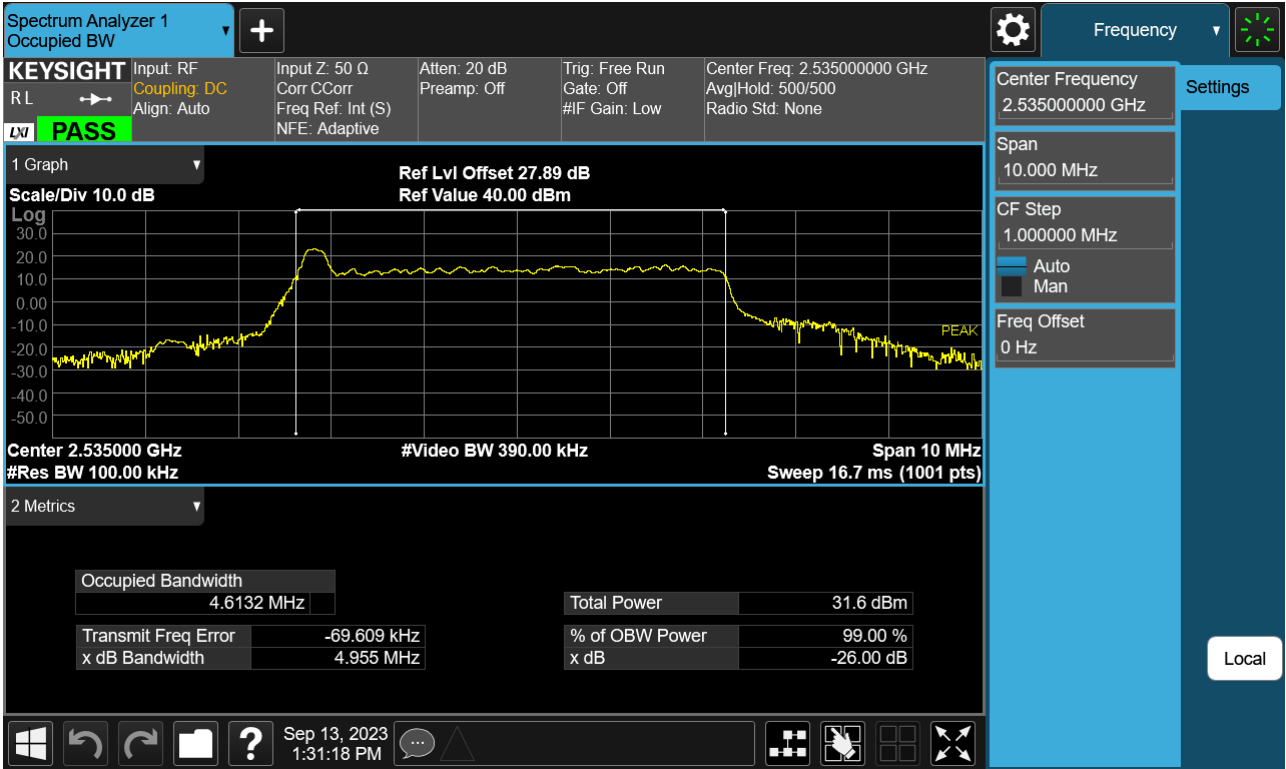
Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2520.000	100 %	+20(Ref)	2519 999 997	0.0	0.000 000	0.000
	100 %	-30	2519 999 996	-1.3	0.000 000	-0.001
	100 %	-20	2520 000 000	2.5	0.000 000	0.001
	100 %	-10	2519 999 995	-2.0	0.000 000	-0.001
	100 %	0	2520 000 000	2.9	0.000 000	0.001
	100 %	+10	2519 999 998	0.3	0.000 000	0.000
	100 %	+30	2519 999 999	1.8	0.000 000	0.001
	100 %	+40	2520 000 000	2.6	0.000 000	0.001
	100 %	+50	2520 000 000	3.0	0.000 000	0.001
	Batt. Endpoint	+20	2519 999 998	0.8	0.000 000	0.000
2550.000	100 %	+20(Ref)	2550 000 001	0.0	0.000 000	0.000
	100 %	-30	2550 000 002	0.7	0.000 000	0.000
	100 %	-20	2550 000 001	-0.1	0.000 000	0.000
	100 %	-10	2550 000 004	2.9	0.000 000	0.001
	100 %	0	2550 000 003	2.0	0.000 000	0.001
	100 %	+10	2550 000 002	1.1	0.000 000	0.000
	100 %	+30	2550 000 002	0.7	0.000 000	0.000
	100 %	+40	2550 000 003	2.2	0.000 000	0.001
	100 %	+50	2550 000 000	-0.5	0.000 000	0.000
	Batt. Endpoint	+20	2550 000 000	-1.1	0.000 000	0.000

## 10. TEST PLOTS(Ant B)

Sub6 n7. Occupied Bandwidth Plot (5 M BW Ch.507000 BPSK)

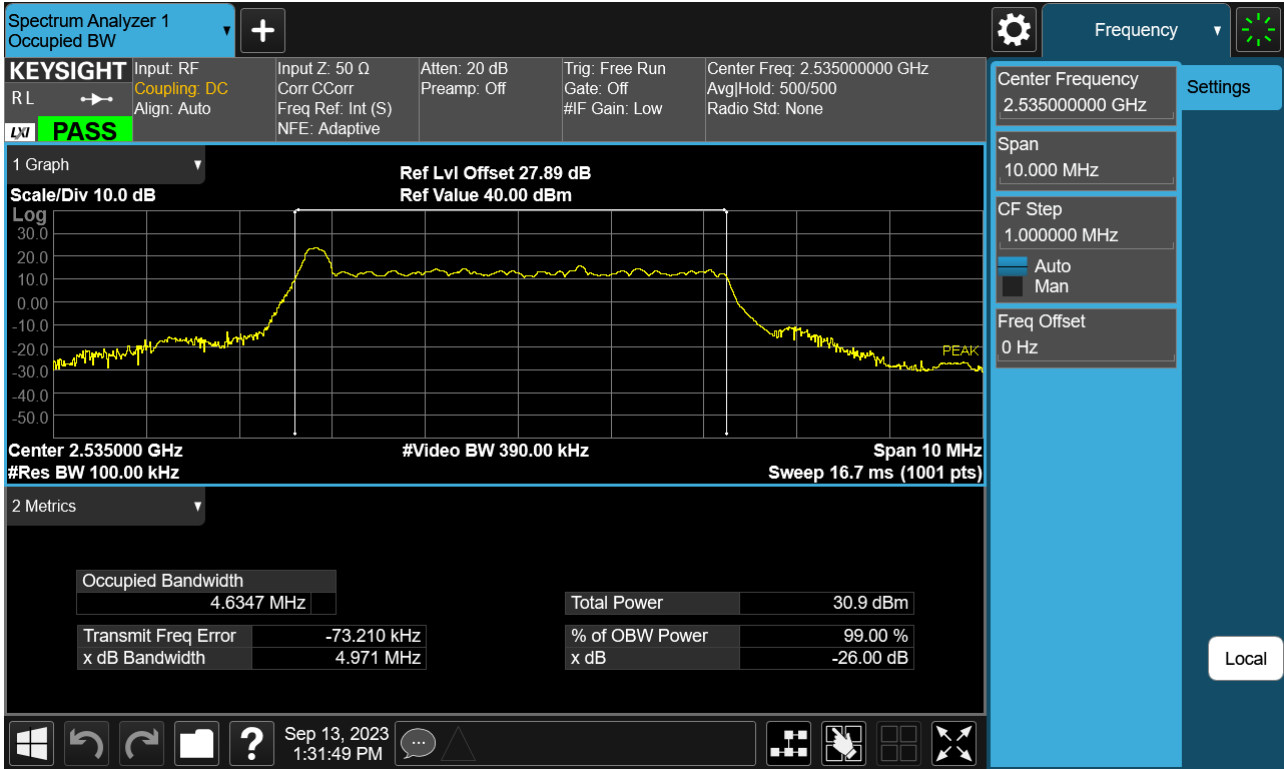


Sub6 n7. Occupied Bandwidth Plot (5 M BW Ch.507000 QPSK)

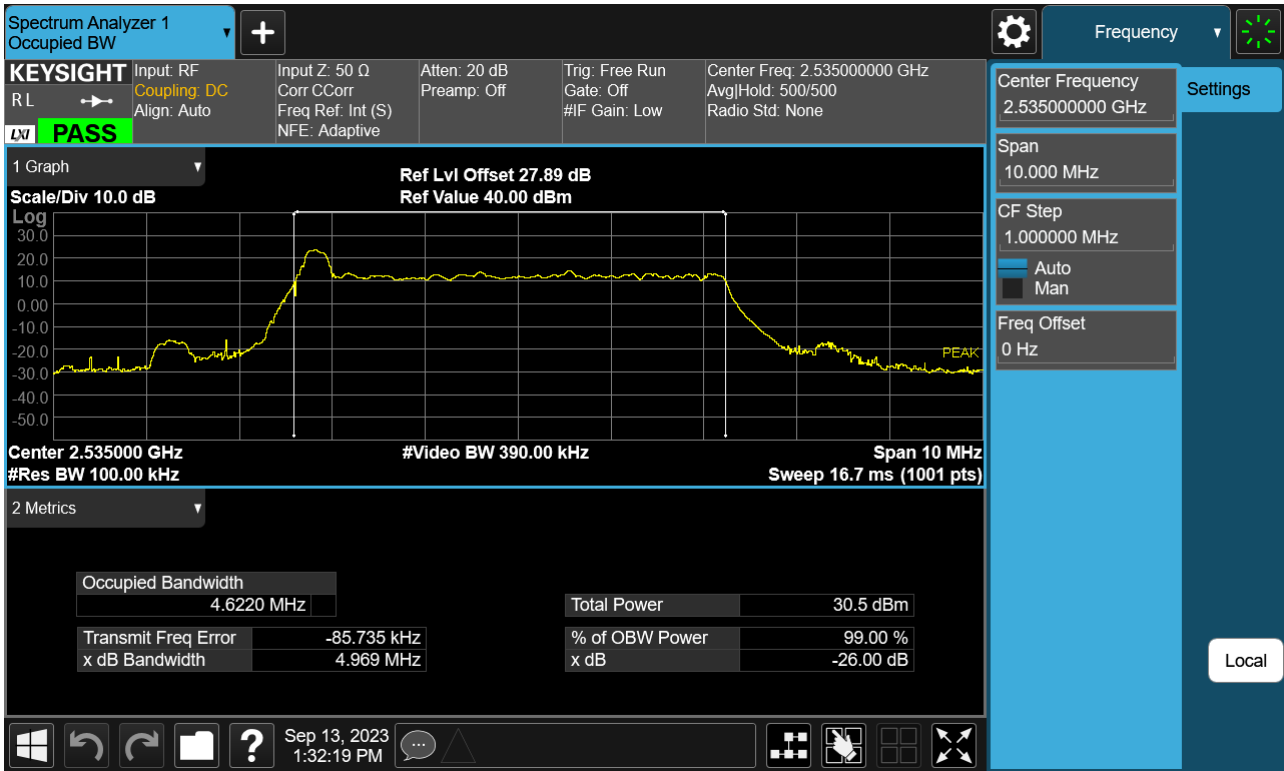




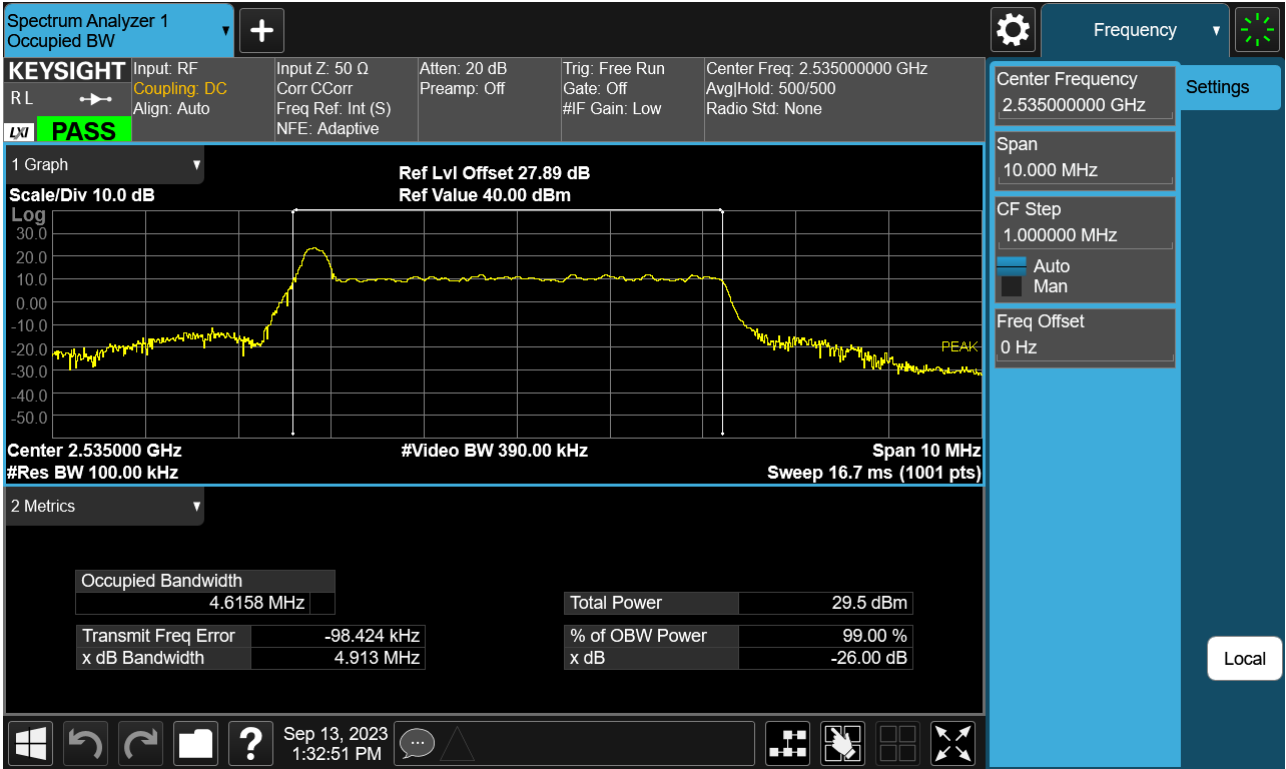
Sub6 n7. Occupied Bandwidth Plot (5 M BW Ch.507000 16QAM)



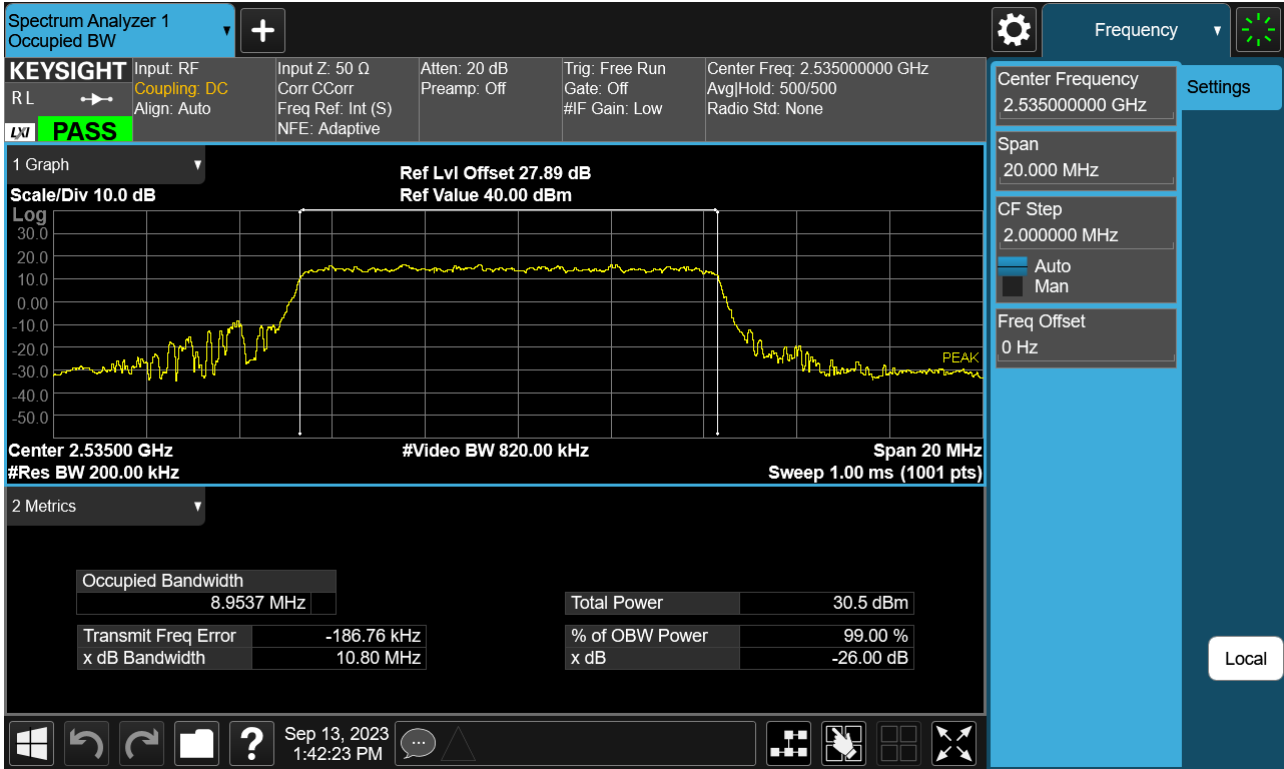
Sub6 n7. Occupied Bandwidth Plot (5 M BW Ch.507000 64QAM)



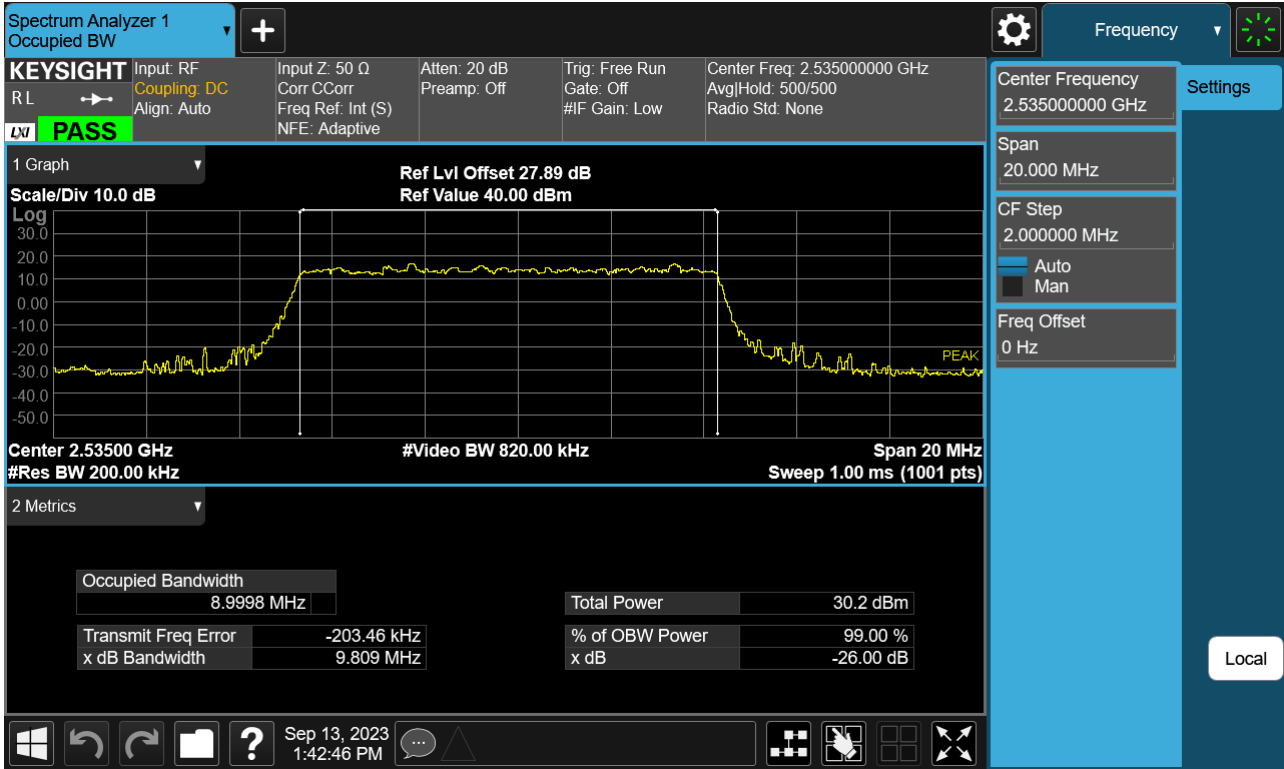
Sub6 n7. Occupied Bandwidth Plot (5 M BW Ch.507000 256QAM)



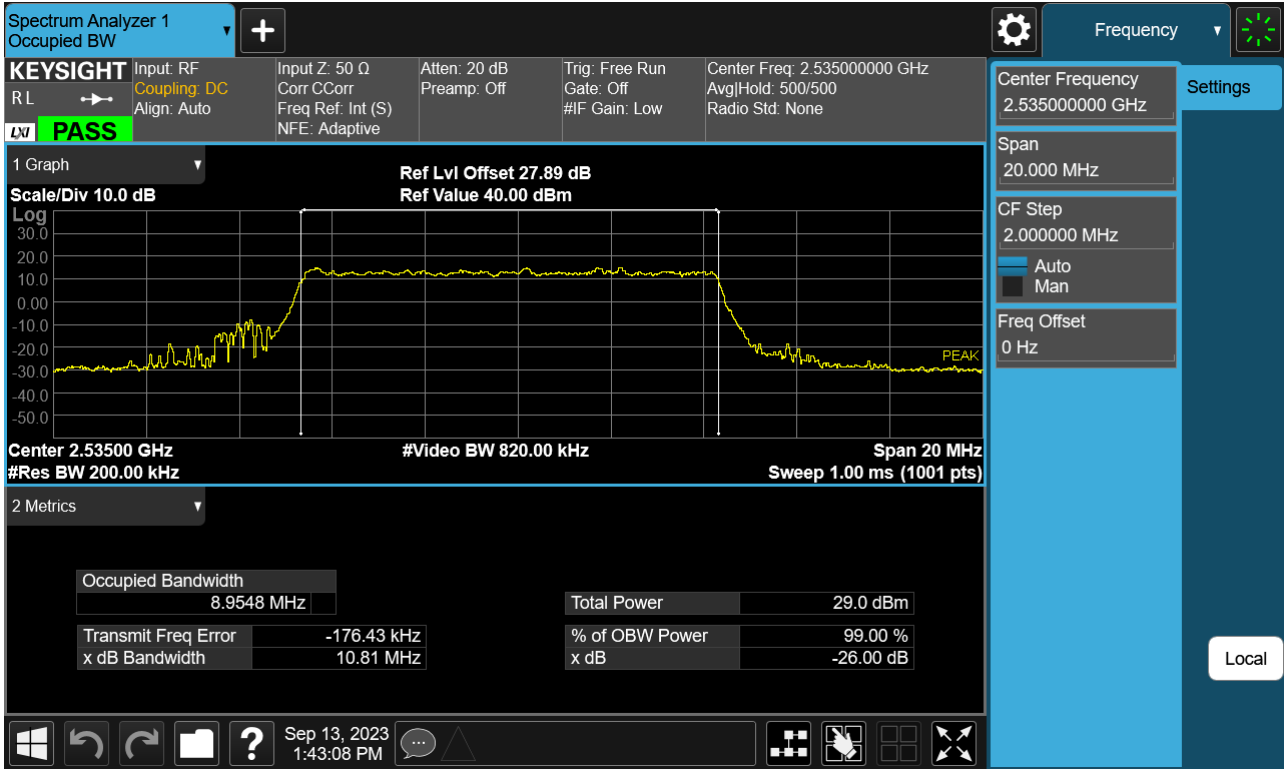
Sub6 n7. Occupied Bandwidth Plot (10 M BW Ch.507000 BPSK)



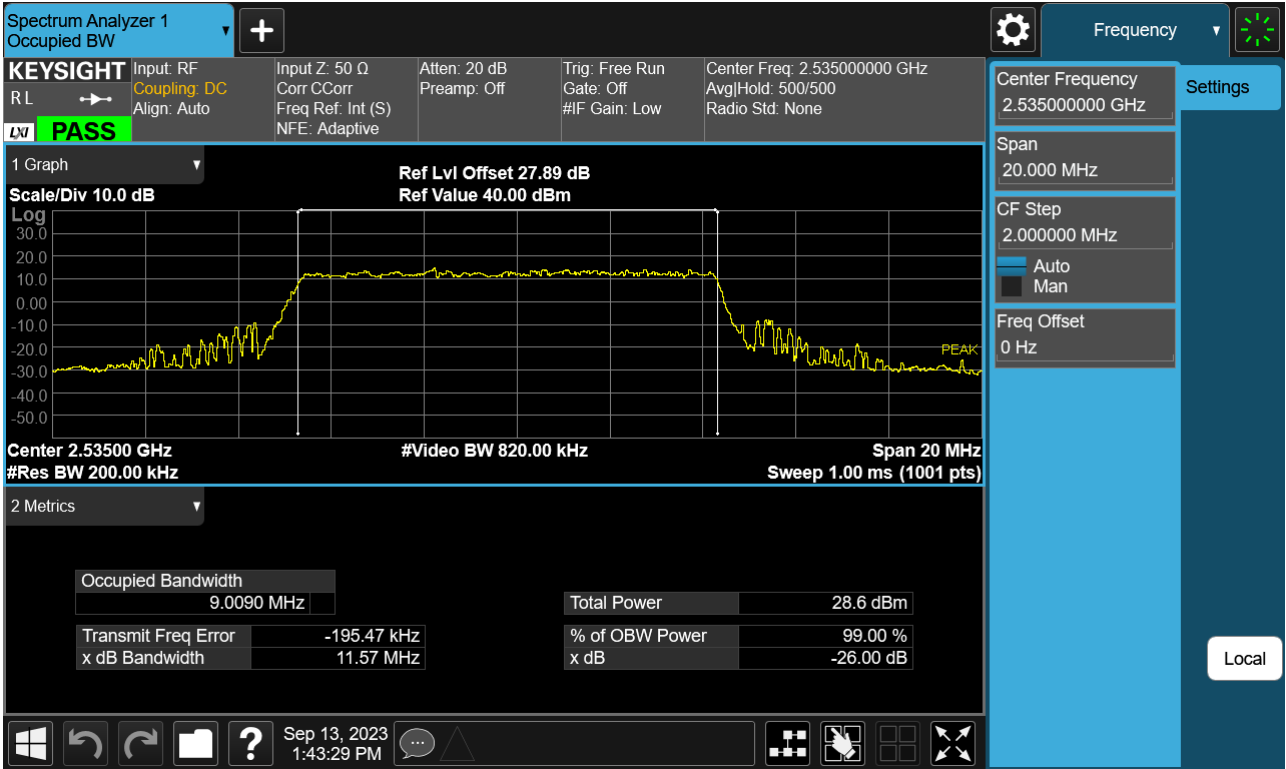
Sub6 n7. Occupied Bandwidth Plot (10 M BW Ch.507000 QPSK)



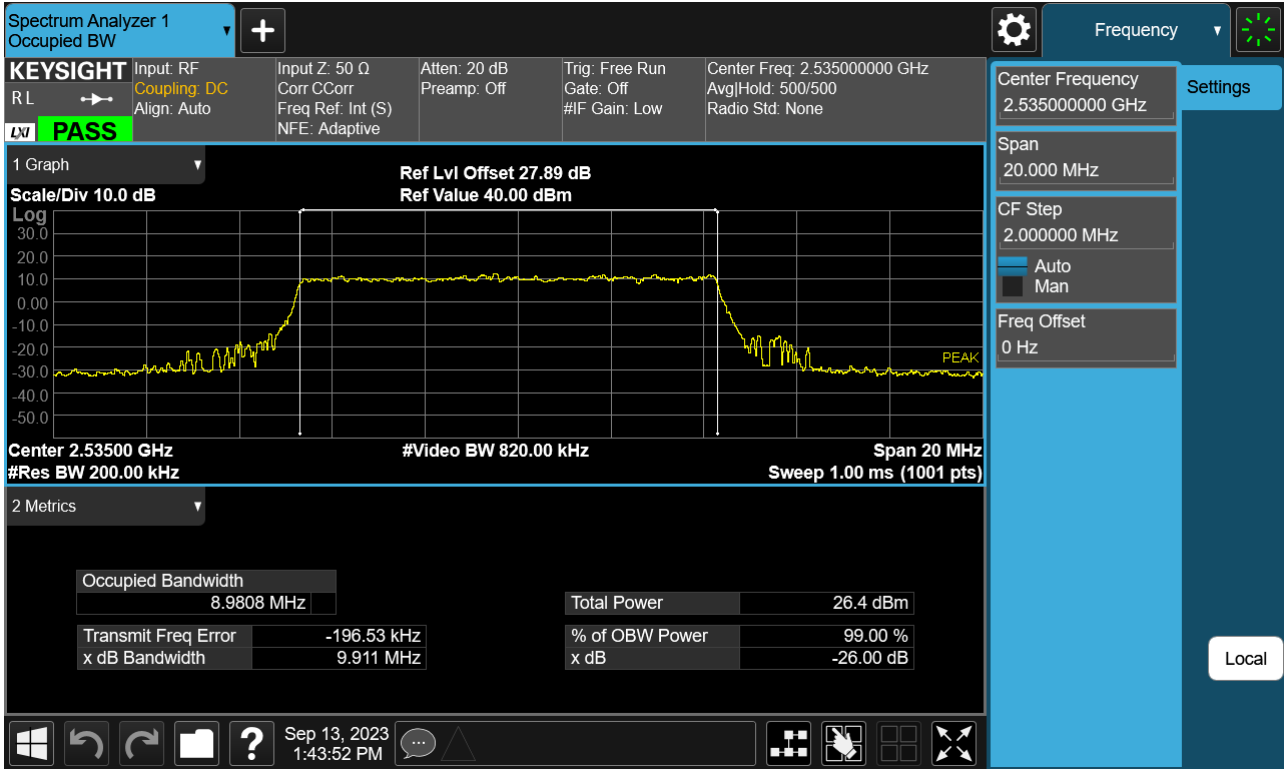
Sub6 n7. Occupied Bandwidth Plot (10 M BW Ch.507000 16QAM)



Sub6 n7. Occupied Bandwidth Plot (10 M BW Ch.507000 64QAM)

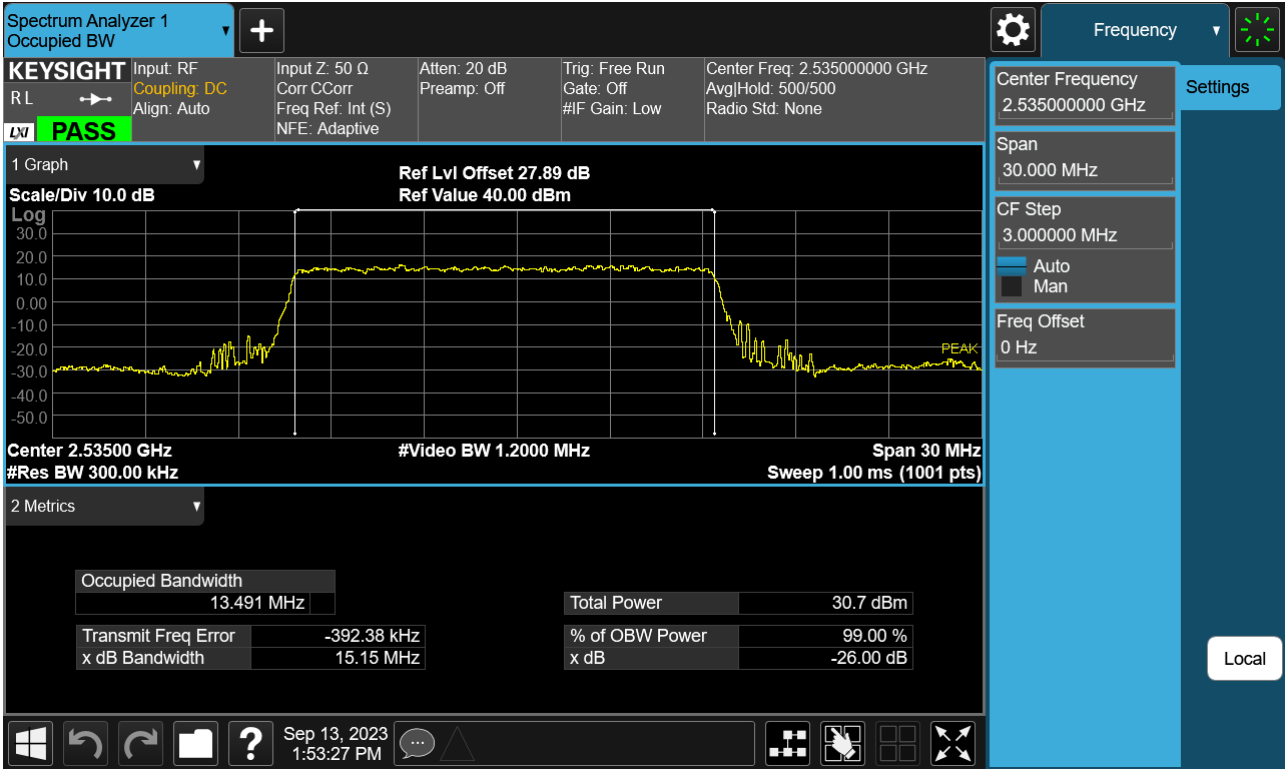


Sub6 n7. Occupied Bandwidth Plot (10 M BW Ch.507000 256QAM)

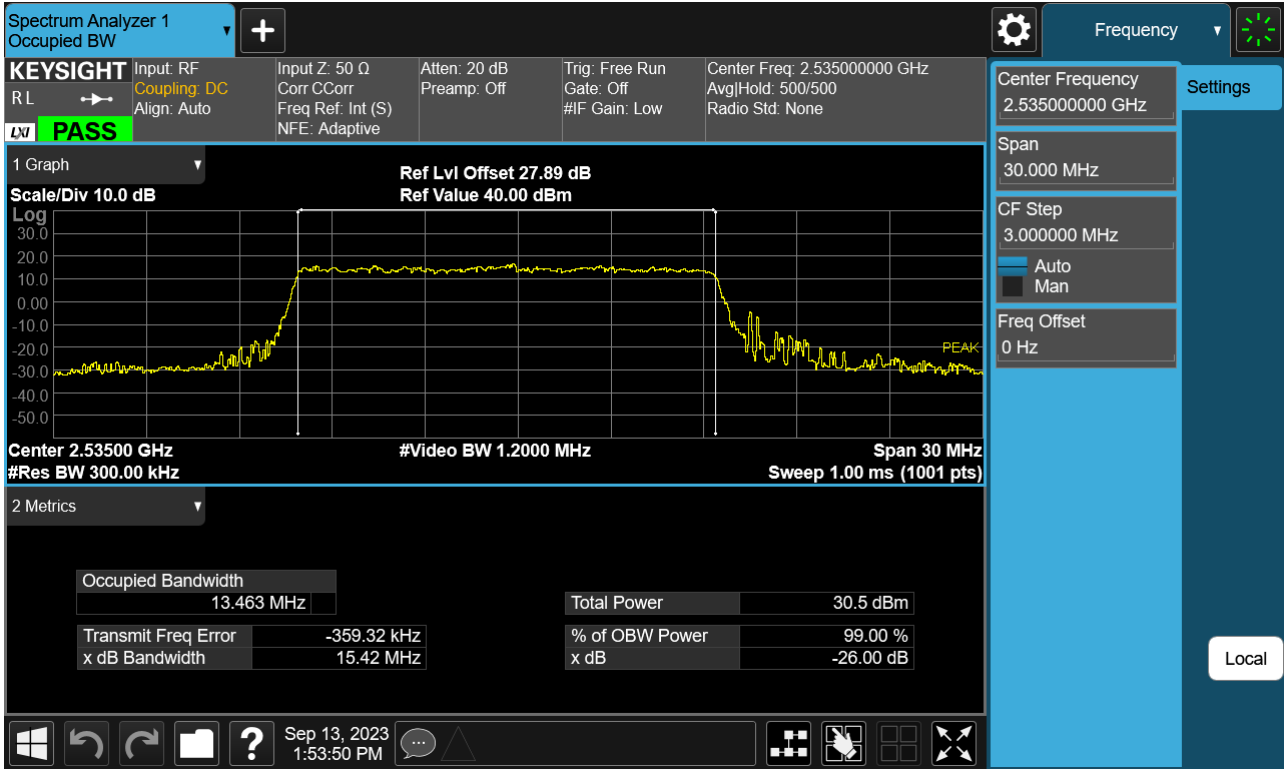




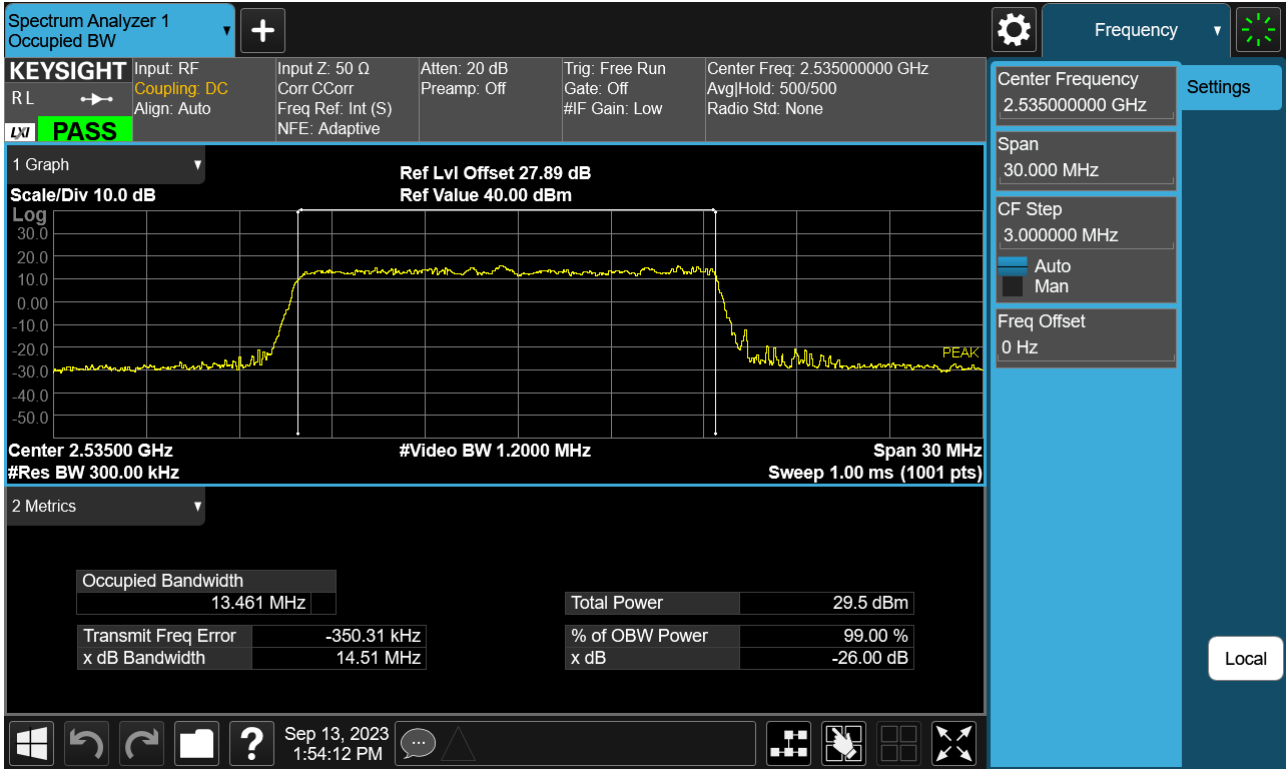
Sub6 n7. Occupied Bandwidth Plot (15 M BW Ch.507000 BPSK)



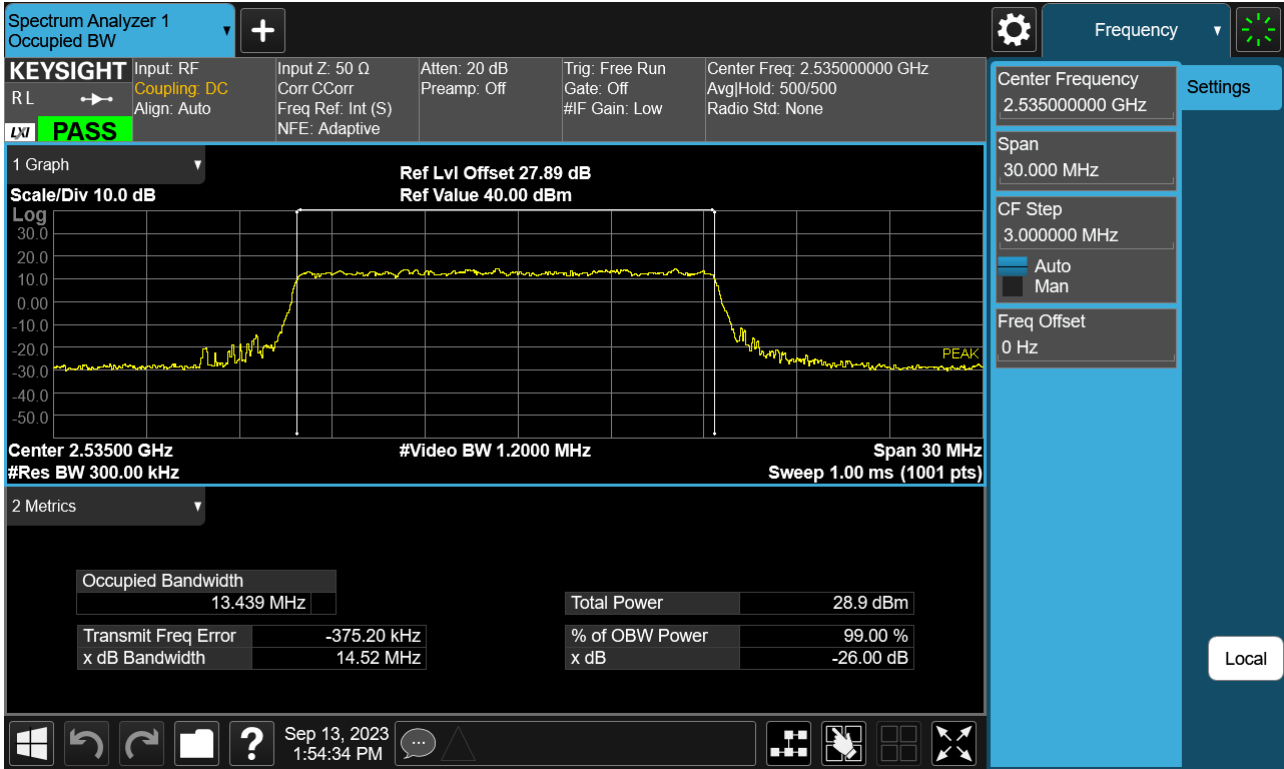
Sub6 n7. Occupied Bandwidth Plot (15 M BW Ch.507000 QPSK)



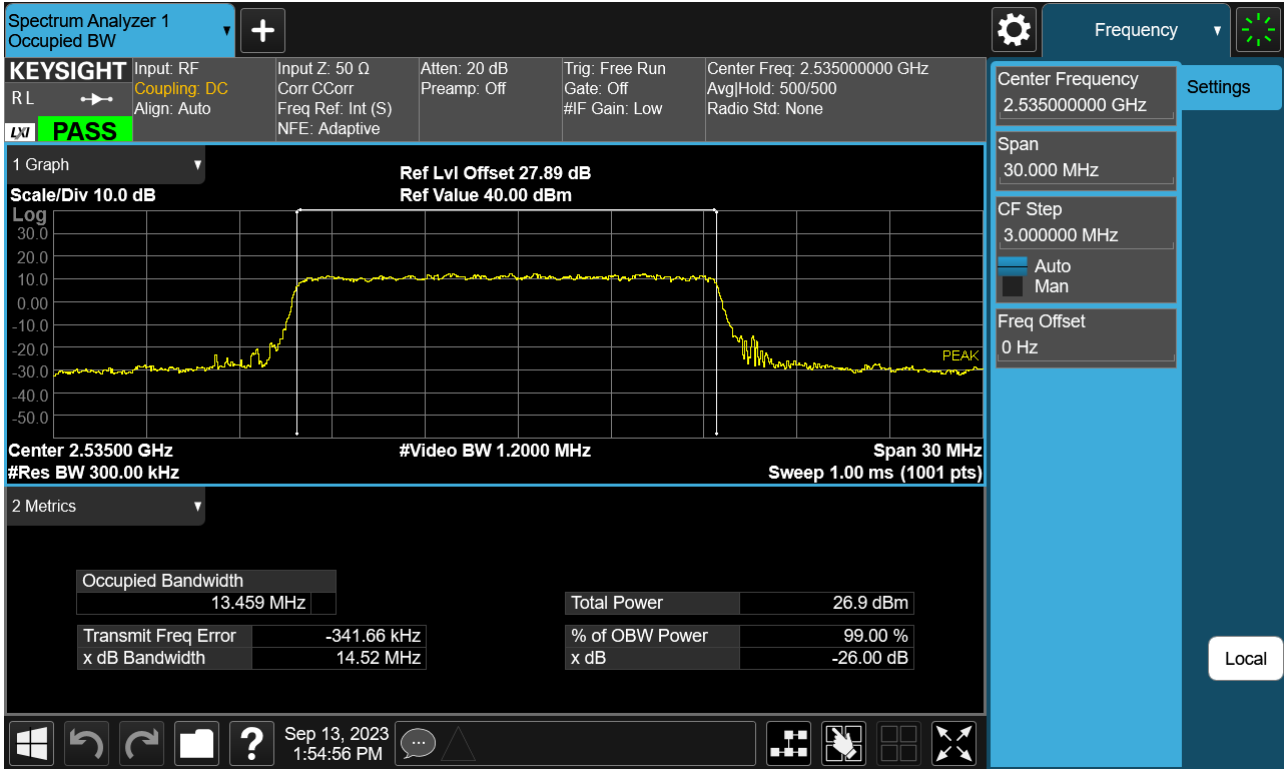
Sub6 n7. Occupied Bandwidth Plot (15 M BW Ch.507000 16QAM)



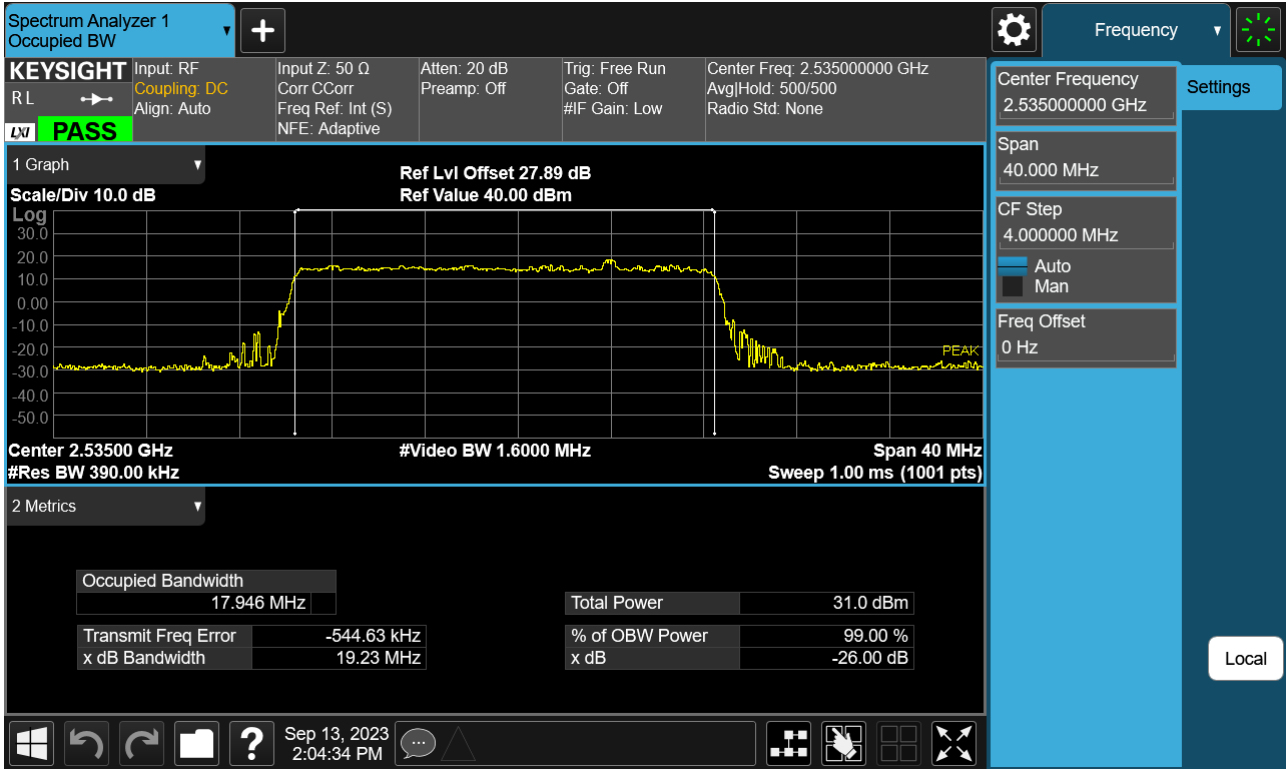
Sub6 n7. Occupied Bandwidth Plot (15 M BW Ch.507000 64QAM)



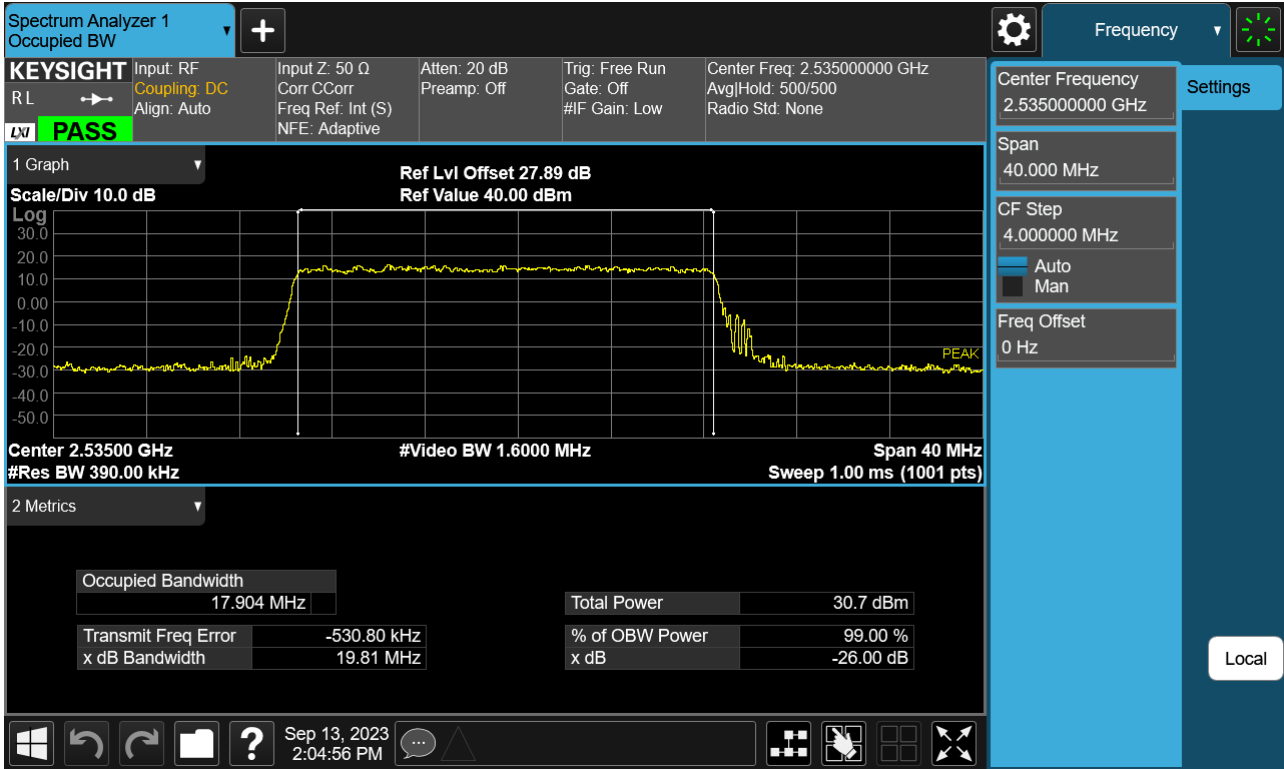
Sub6 n7. Occupied Bandwidth Plot (15 M BW Ch.507000 256QAM)



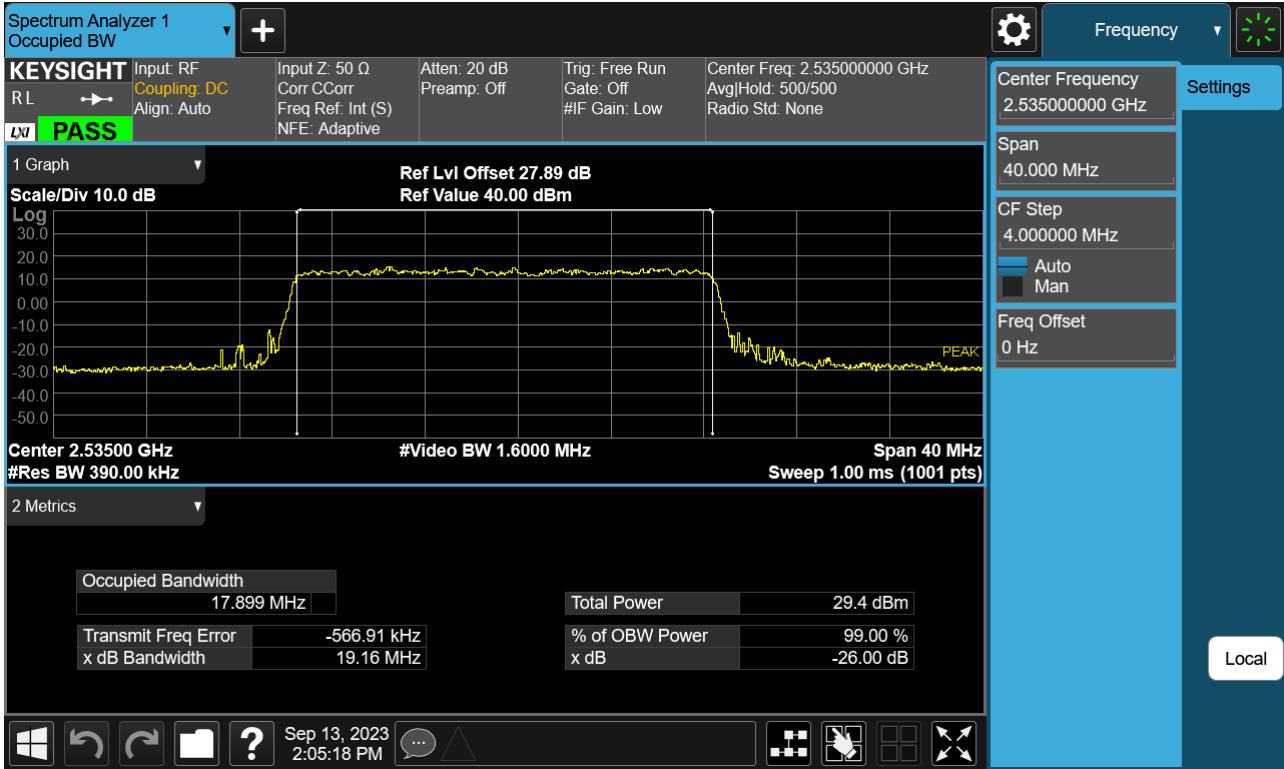
Sub6 n7. Occupied Bandwidth Plot (20 M BW Ch.507000 BPSK)



Sub6 n7. Occupied Bandwidth Plot (20 M BW Ch.507000 QPSK)

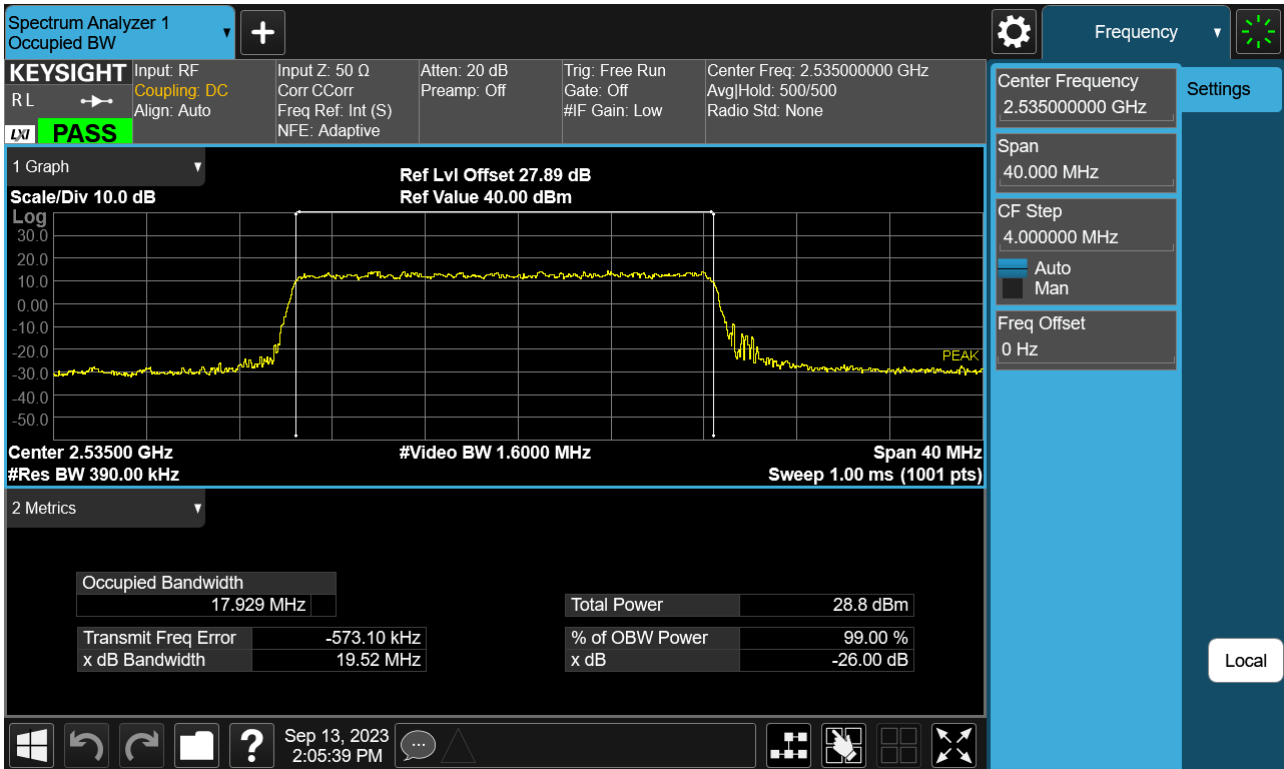


Sub6 n7. Occupied Bandwidth Plot (20 M BW Ch.507000 16QAM)

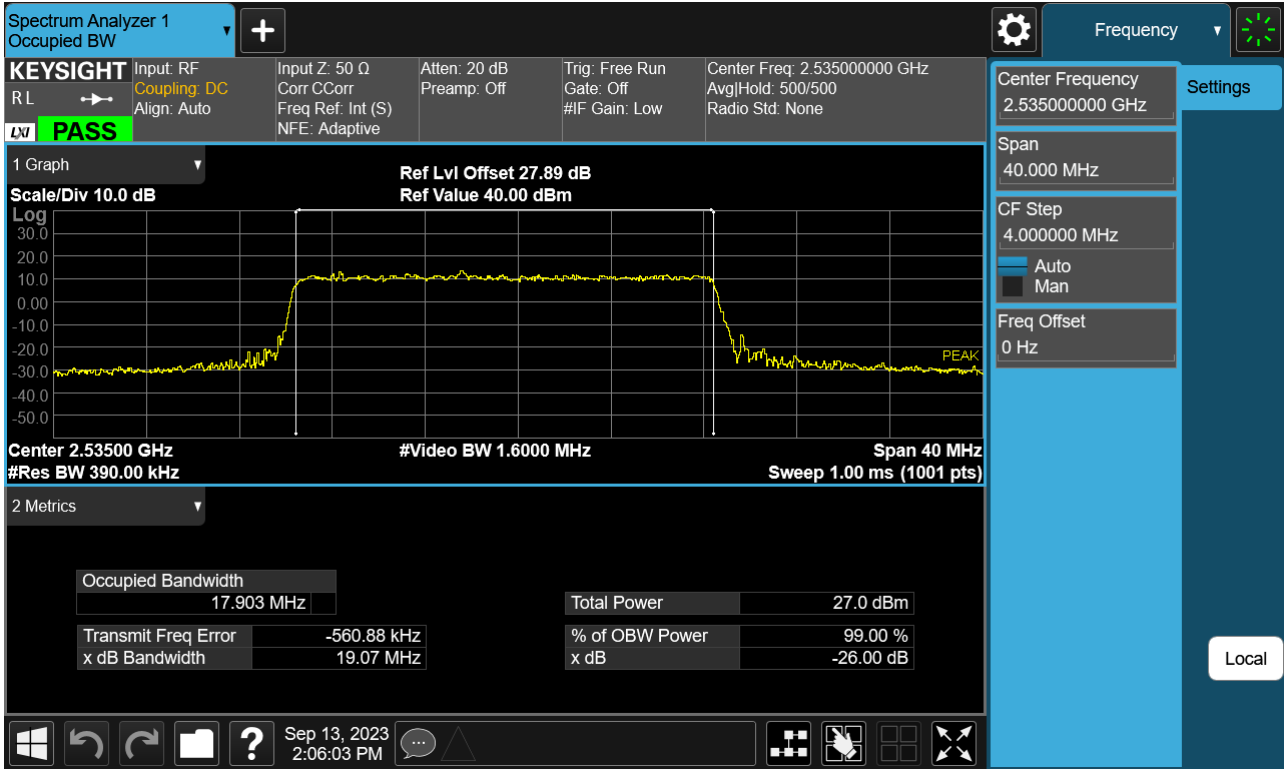




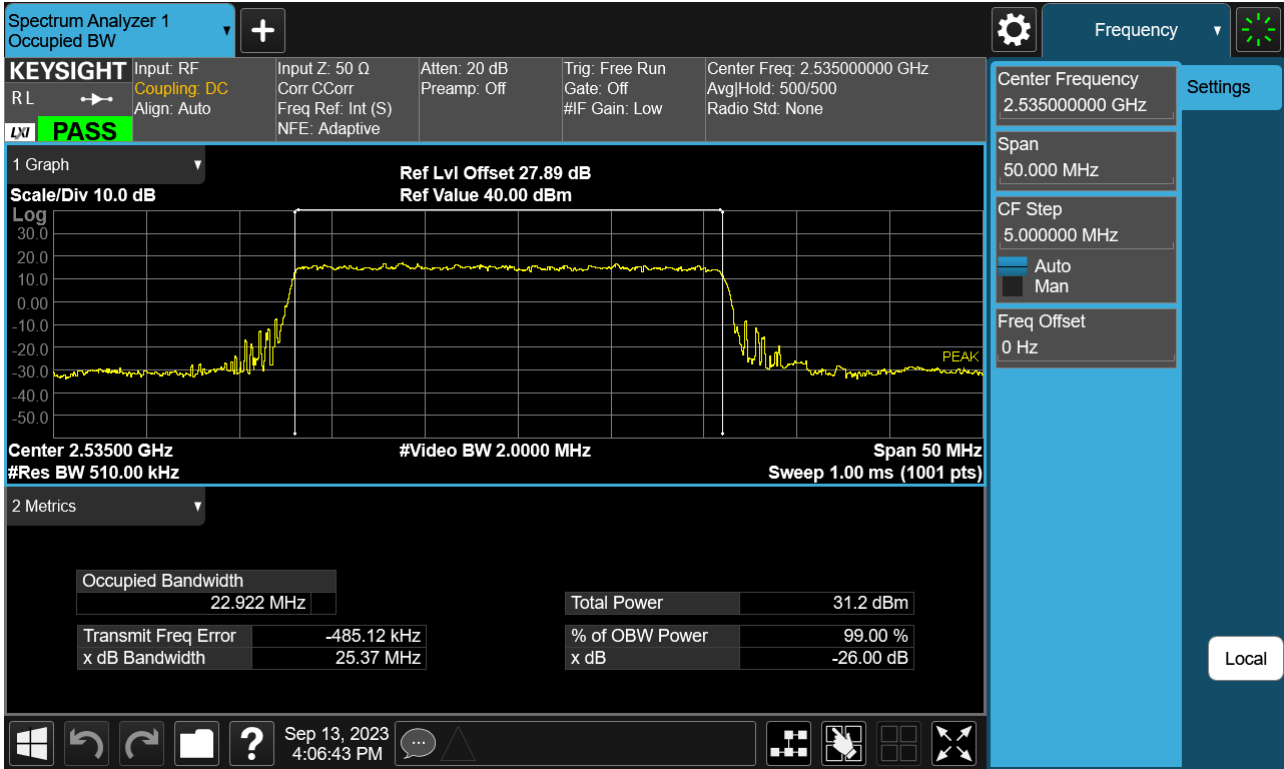
Sub6 n7. Occupied Bandwidth Plot (20 M BW Ch.507000 64QAM)



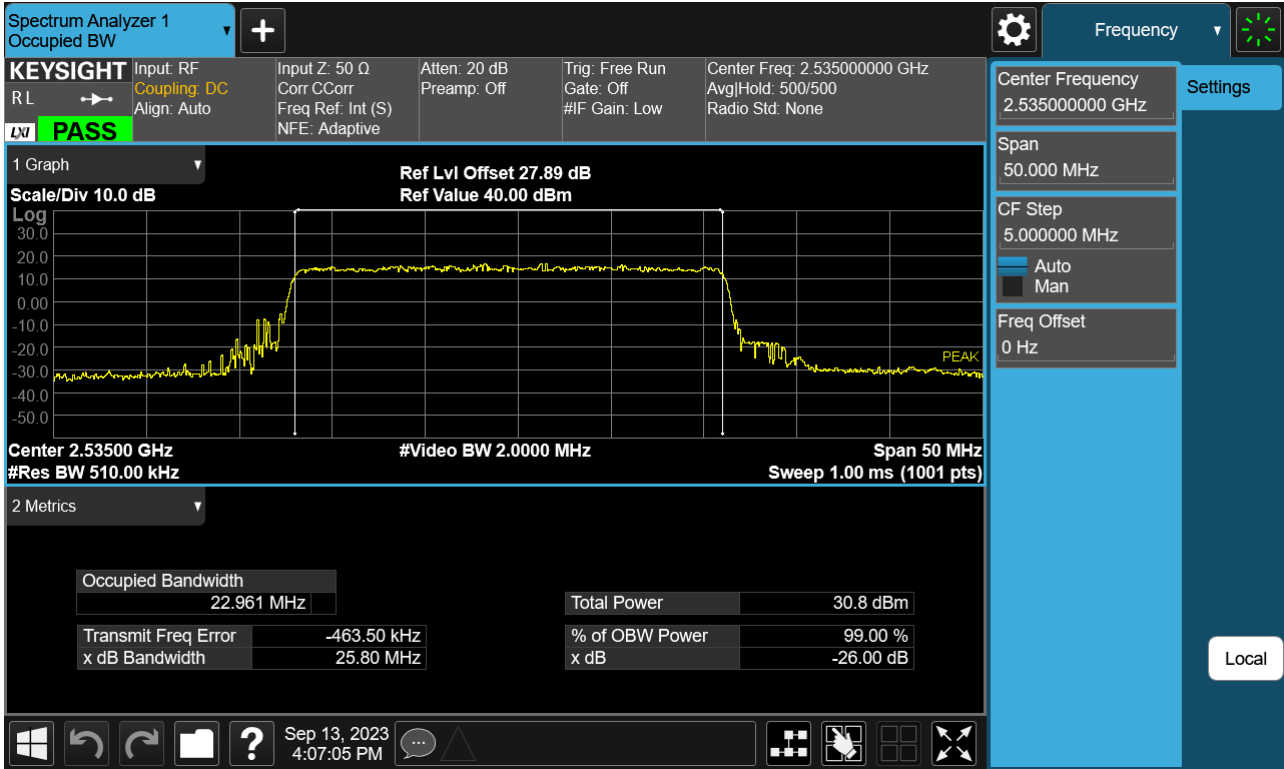
Sub6 n7. Occupied Bandwidth Plot (20 M BW Ch.507000 256QAM)



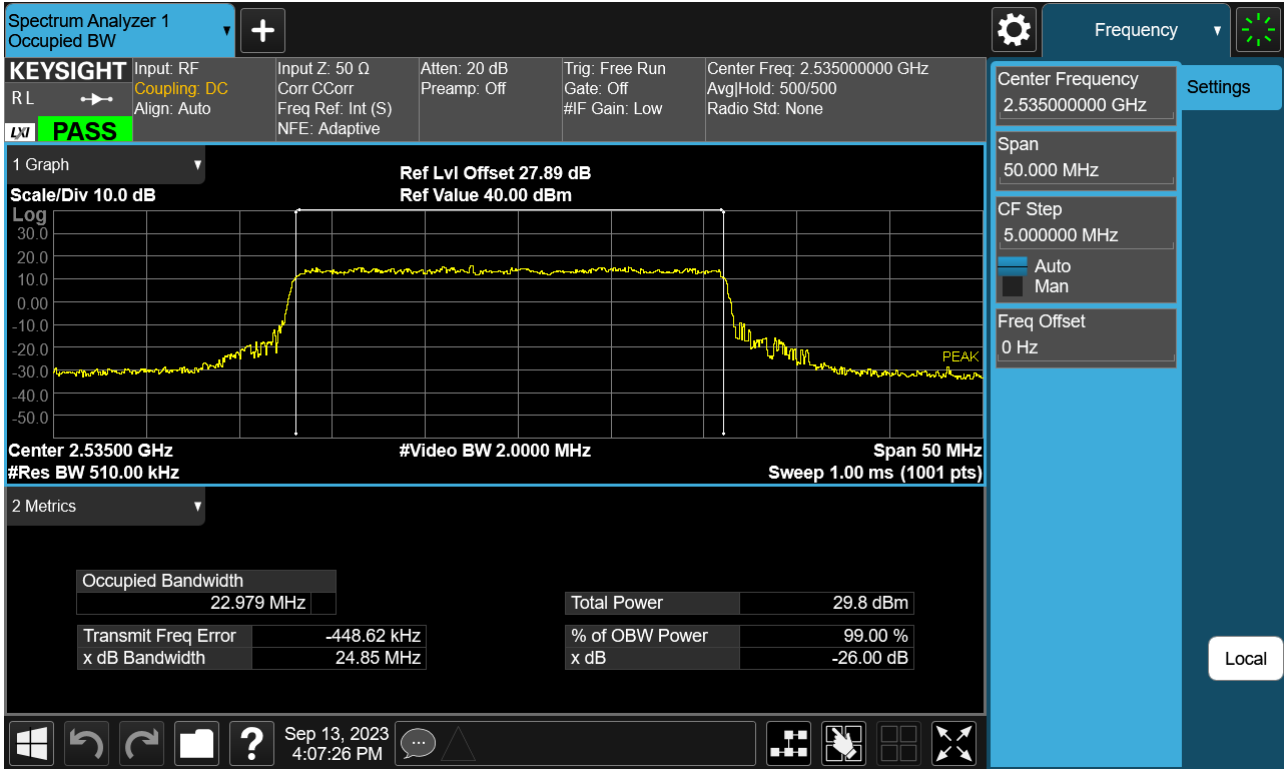
Sub6 n7. Occupied Bandwidth Plot (25 M BW Ch.507000 BPSK)



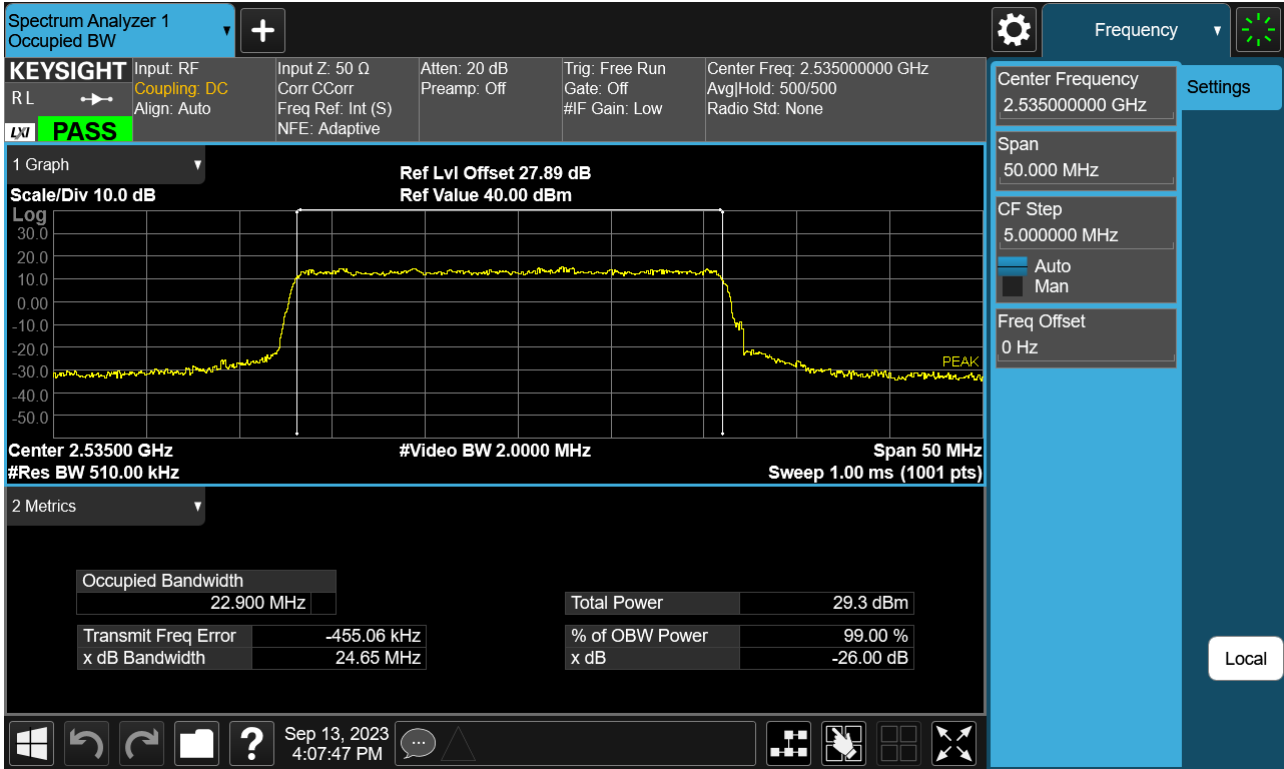
Sub6 n7. Occupied Bandwidth Plot (25 M BW Ch.507000 QPSK)



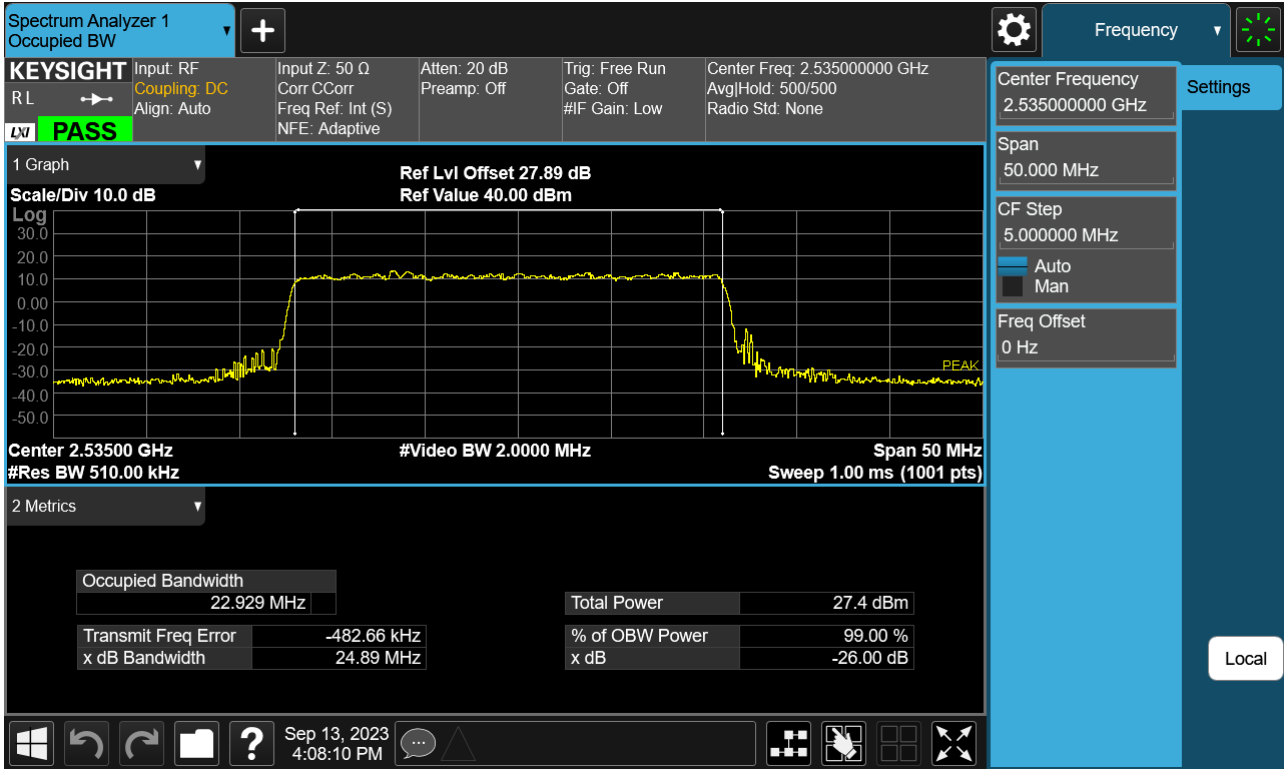
Sub6 n7. Occupied Bandwidth Plot (25 M BW Ch.507000 16QAM)



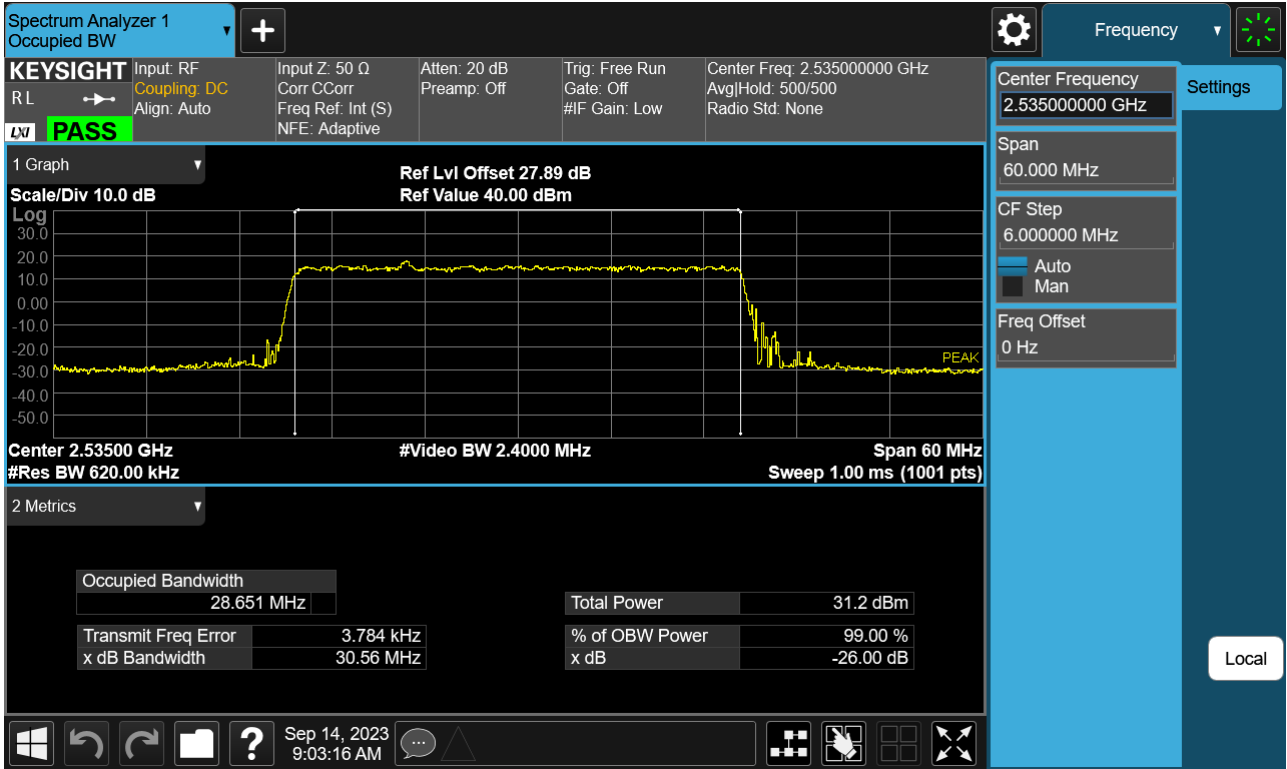
Sub6 n7. Occupied Bandwidth Plot (25 M BW Ch.507000 64QAM)



Sub6 n7. Occupied Bandwidth Plot (25 M BW Ch.507000 256QAM)

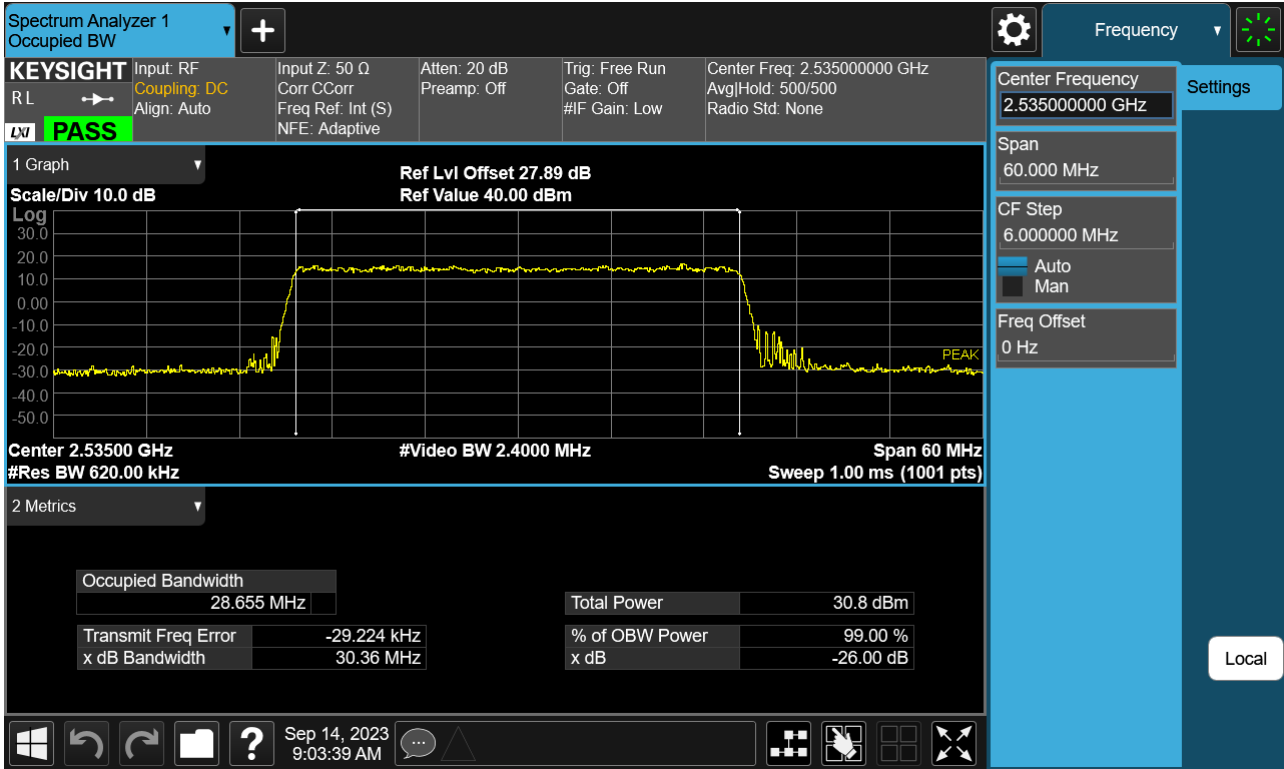


Sub6 n7. Occupied Bandwidth Plot (30 M BW Ch.507000 BPSK)

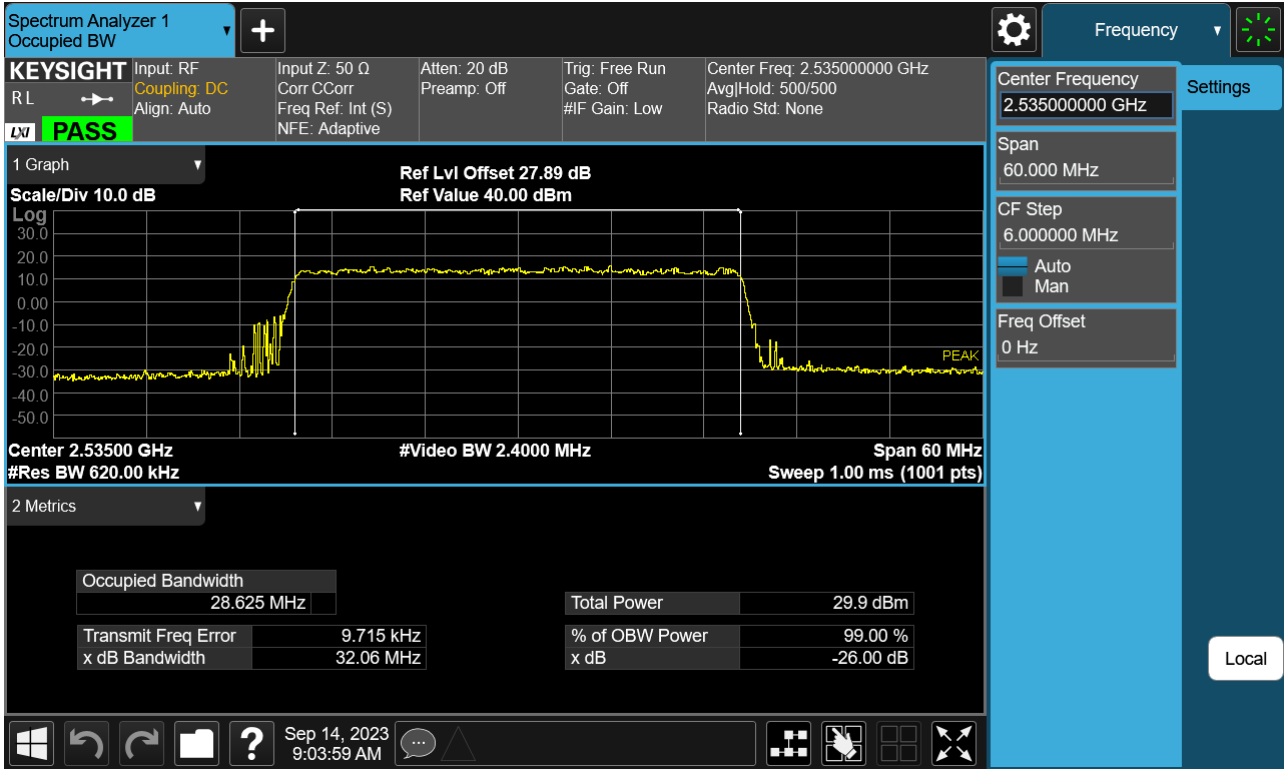




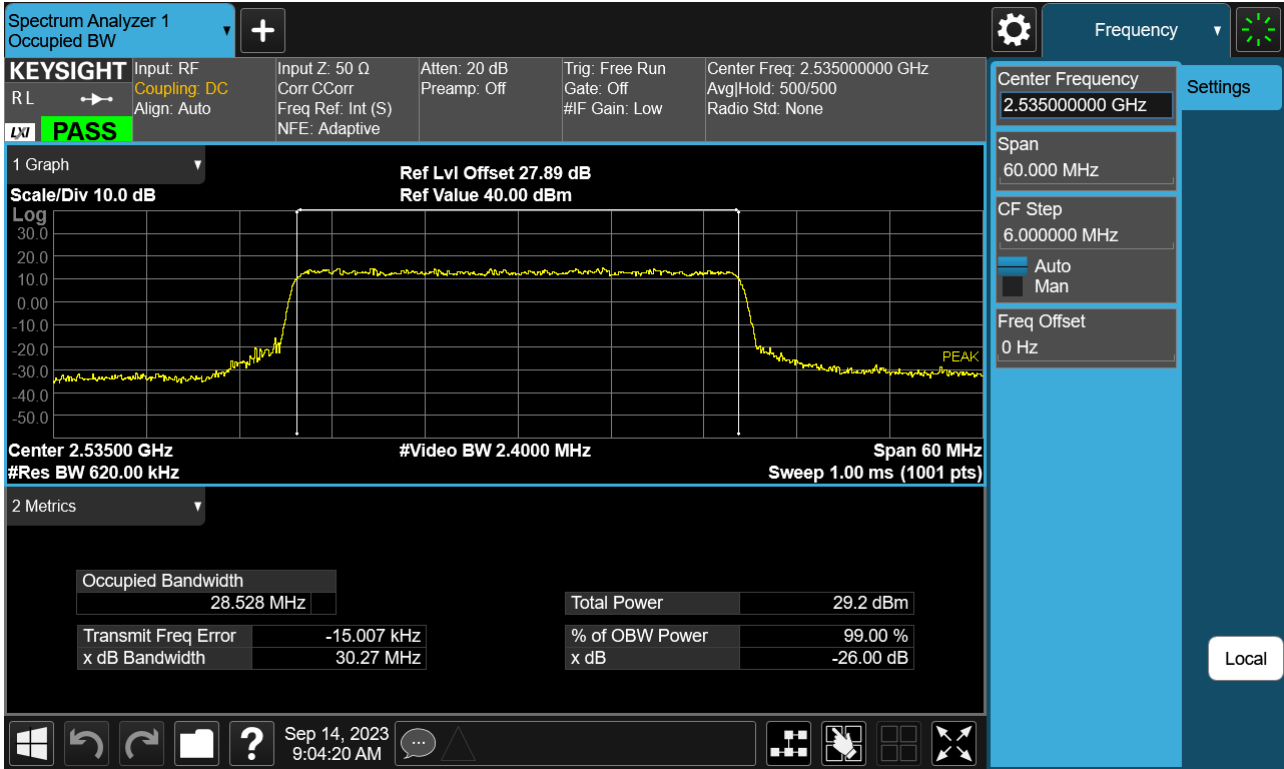
Sub6 n7. Occupied Bandwidth Plot (30 M BW Ch.507000 QPSK)



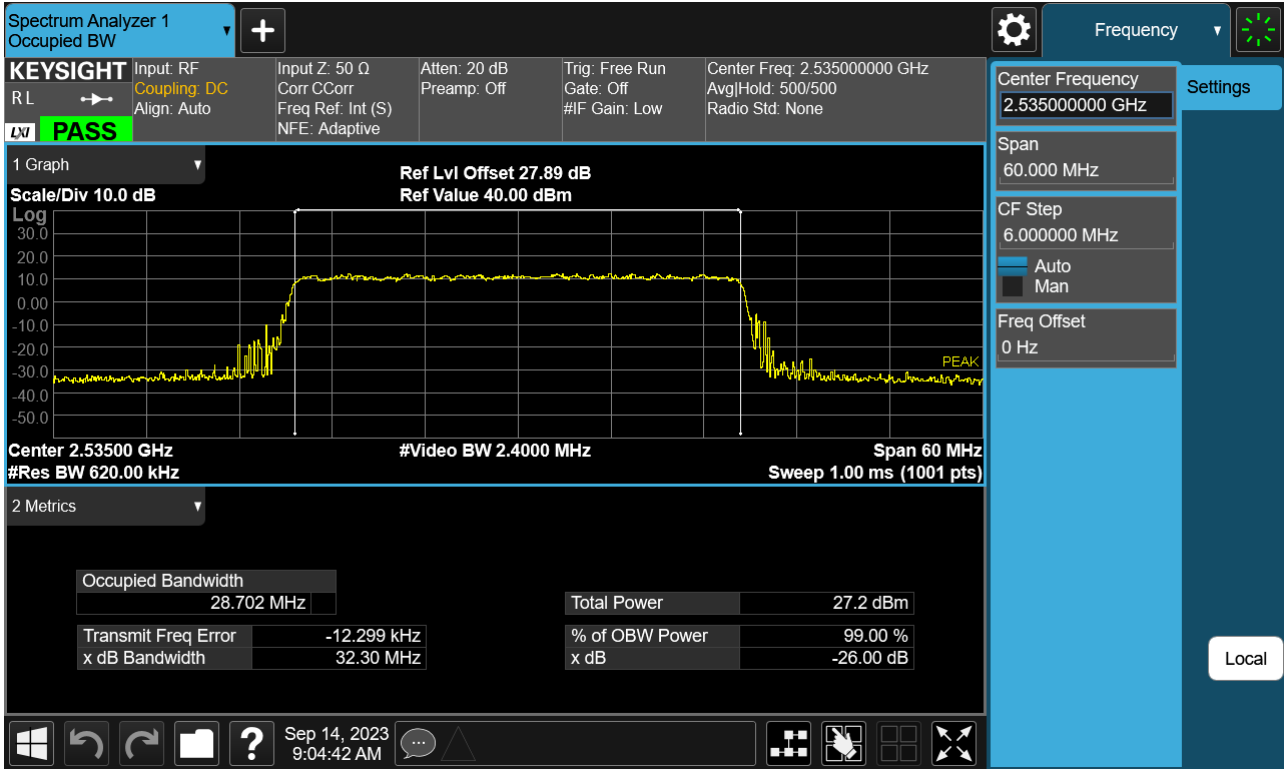
Sub6 n7. Occupied Bandwidth Plot (30 M BW Ch.507000 16QAM)



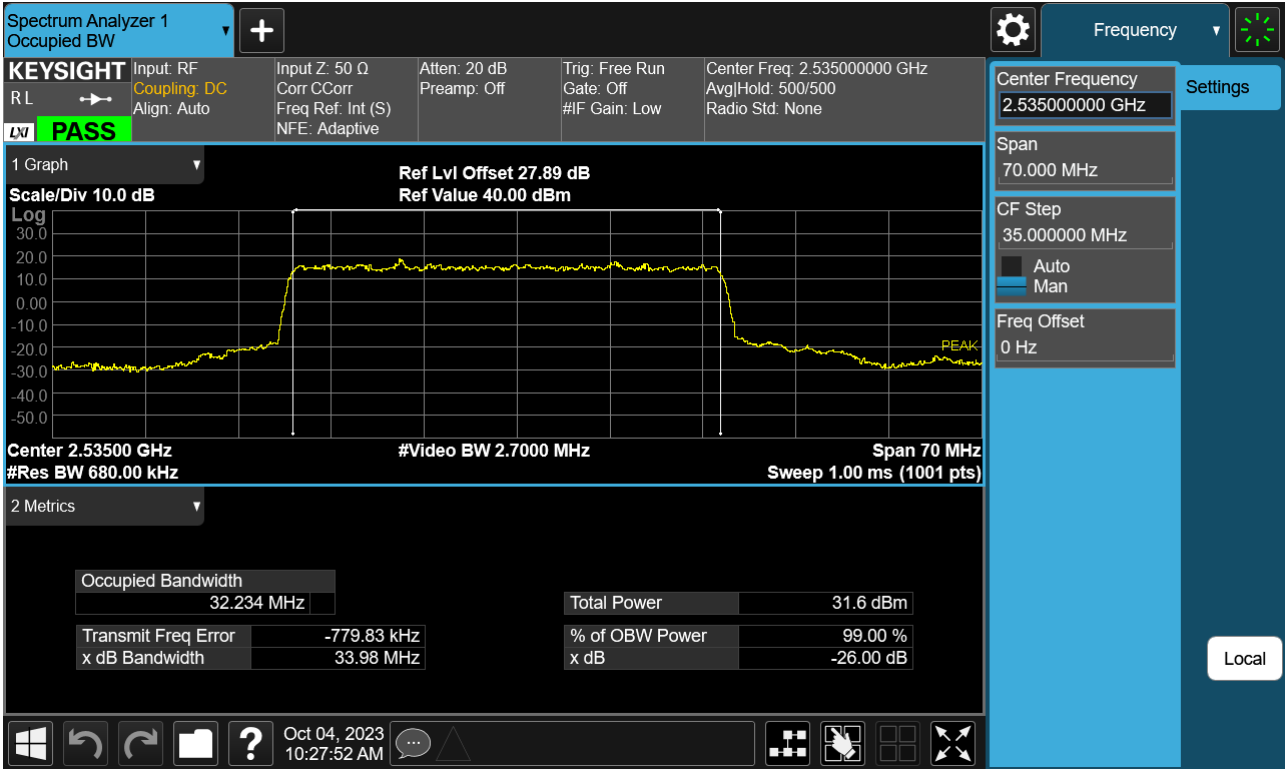
Sub6 n7. Occupied Bandwidth Plot (30 M BW Ch.507000 64QAM)



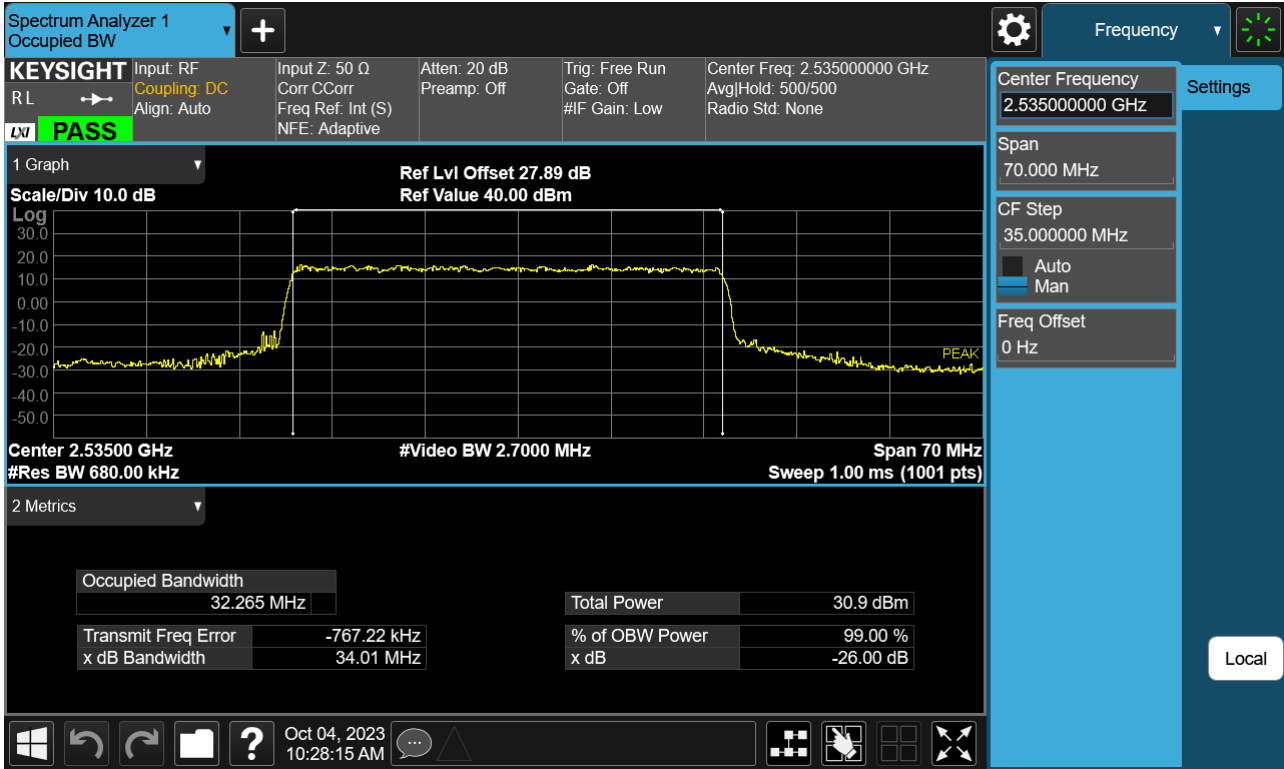
Sub6 n7. Occupied Bandwidth Plot (30 M BW Ch.507000 256QAM)



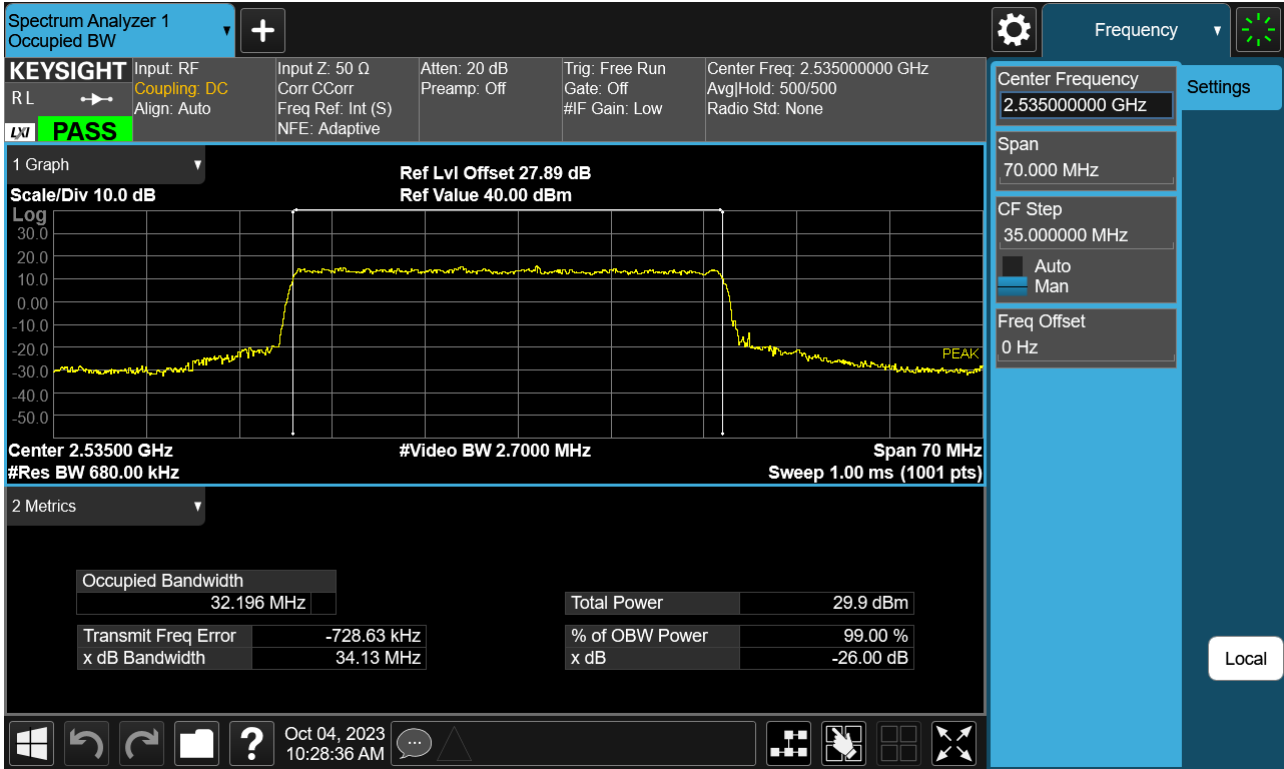
Sub6 n7. Occupied Bandwidth Plot (35 M BW Ch.507000 BPSK)



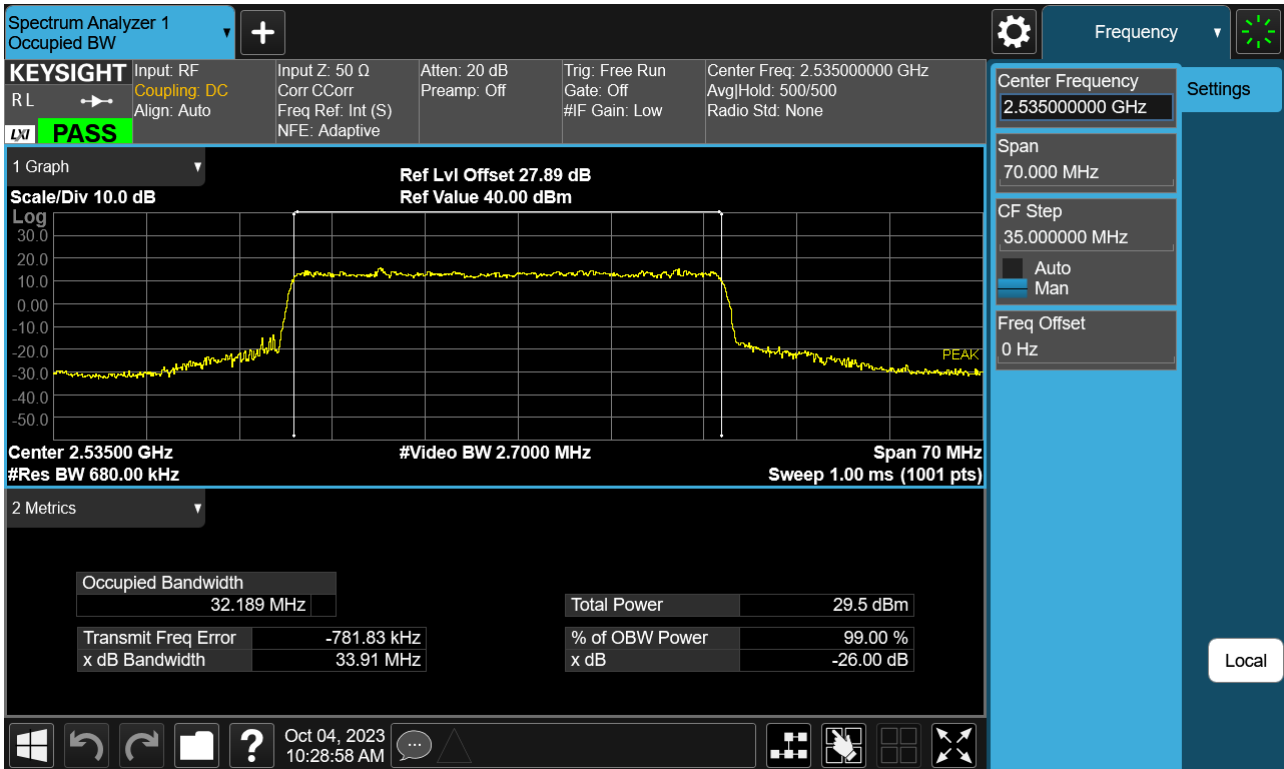
Sub6 n7. Occupied Bandwidth Plot (35 M BW Ch.507000 QPSK)



Sub6 n7. Occupied Bandwidth Plot (35 M BW Ch.507000 16QAM)



Sub6 n7. Occupied Bandwidth Plot (35 M BW Ch.507000 64QAM)

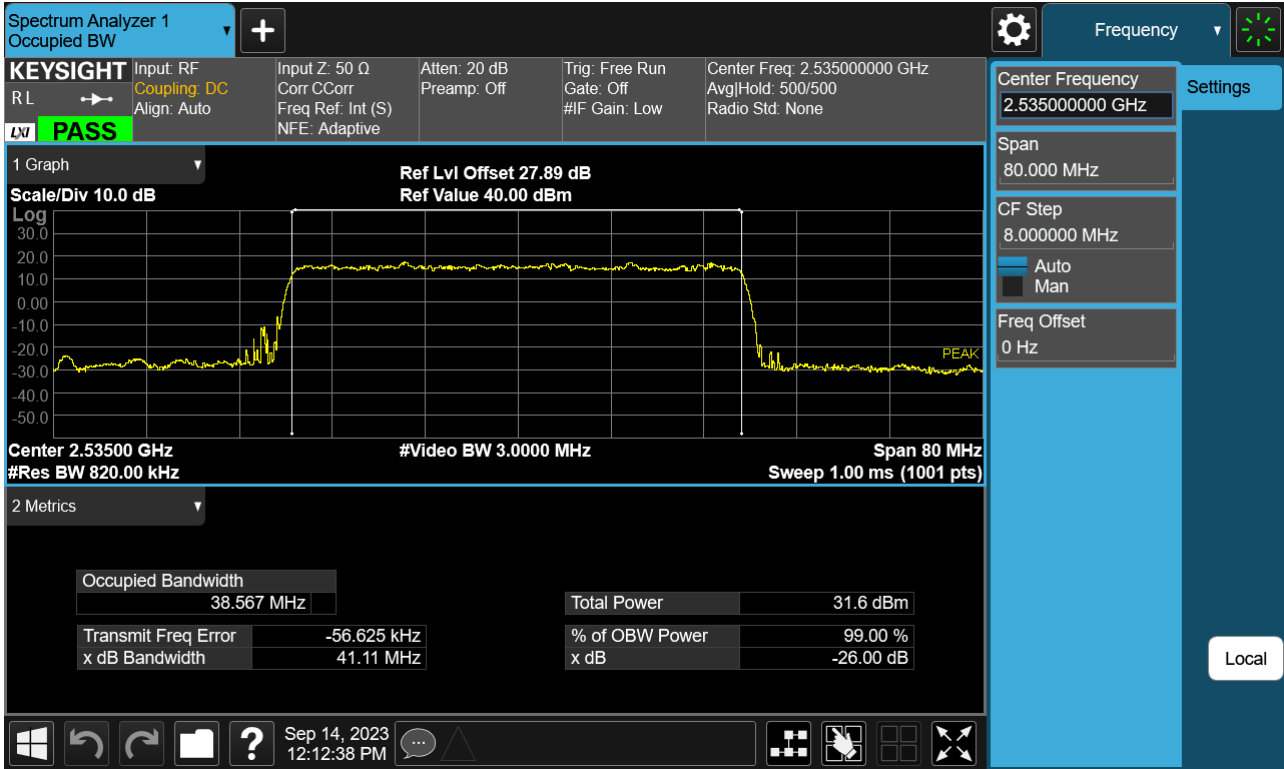




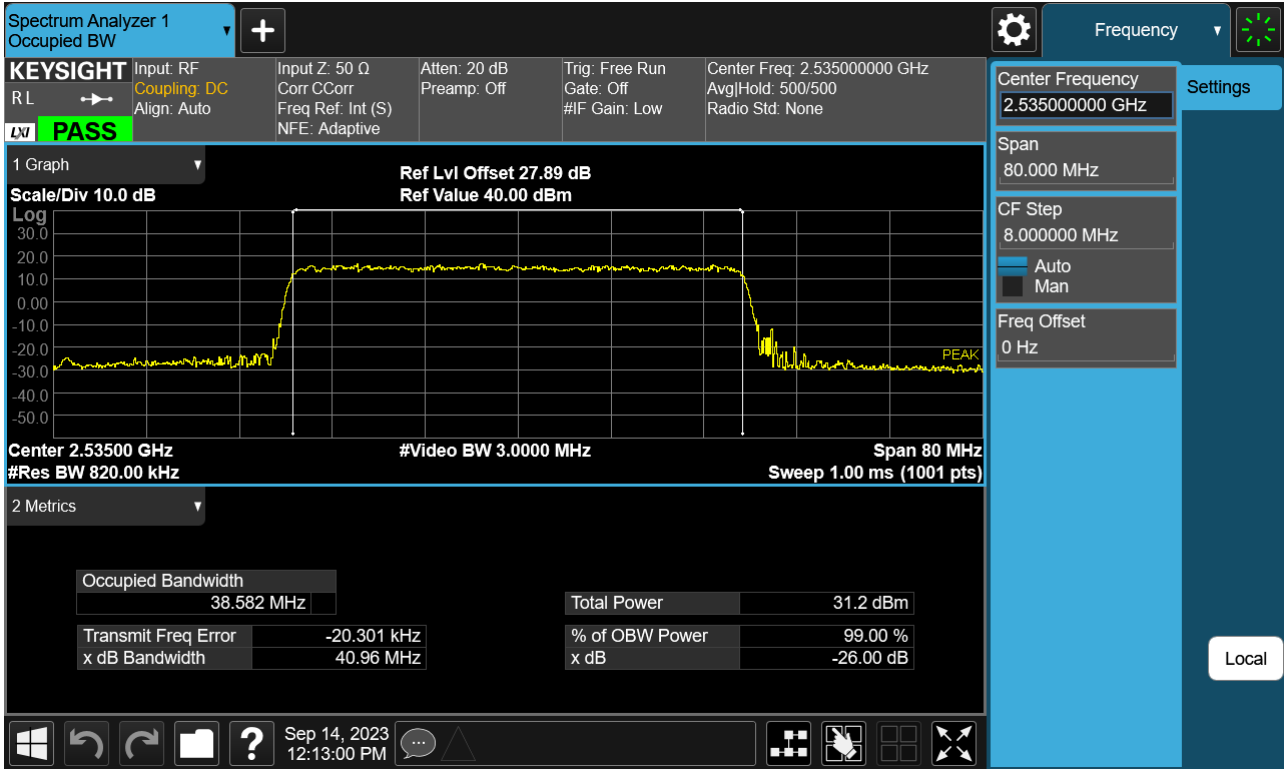
Sub6 n7. Occupied Bandwidth Plot (35 M BW Ch.507000 256QAM)



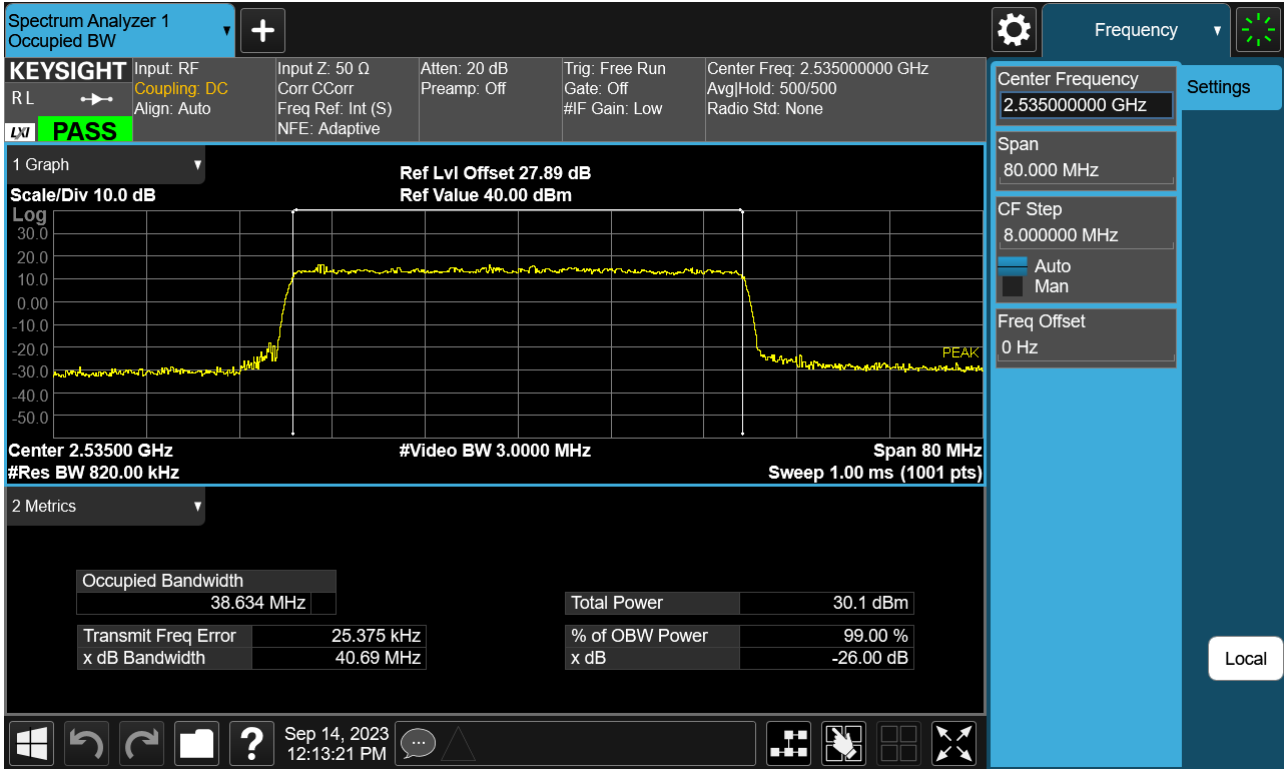
Sub6 n7. Occupied Bandwidth Plot (40 M BW Ch.507000 BPSK)



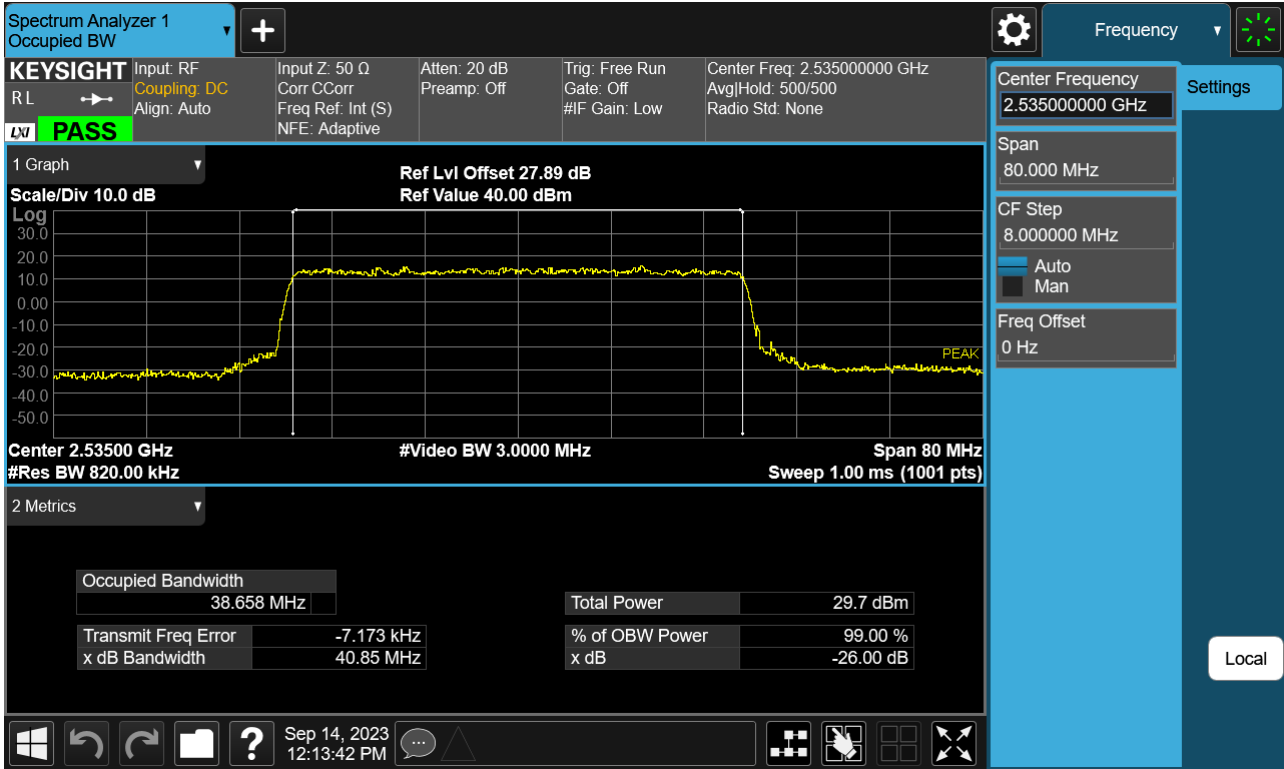
Sub6 n7. Occupied Bandwidth Plot (40 M BW Ch.507000 QPSK)



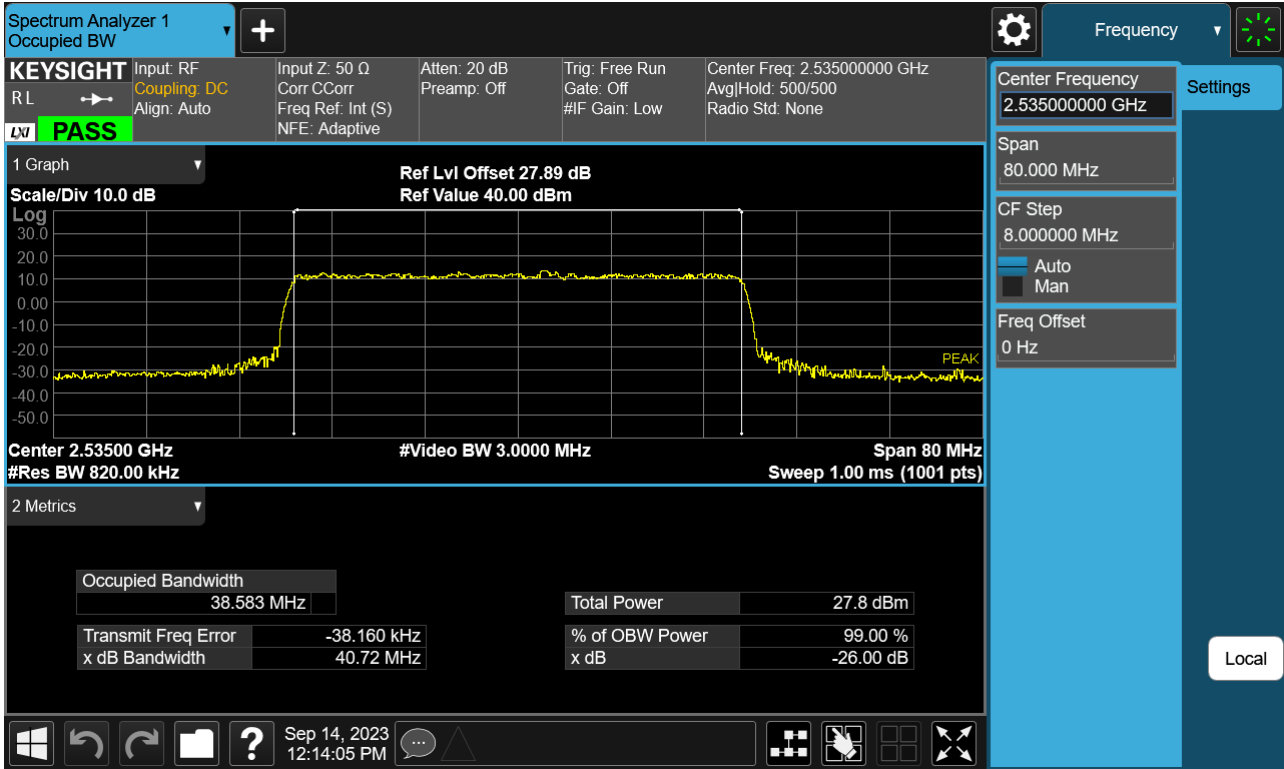
Sub6 n7. Occupied Bandwidth Plot (40 M BW Ch.507000 16QAM)



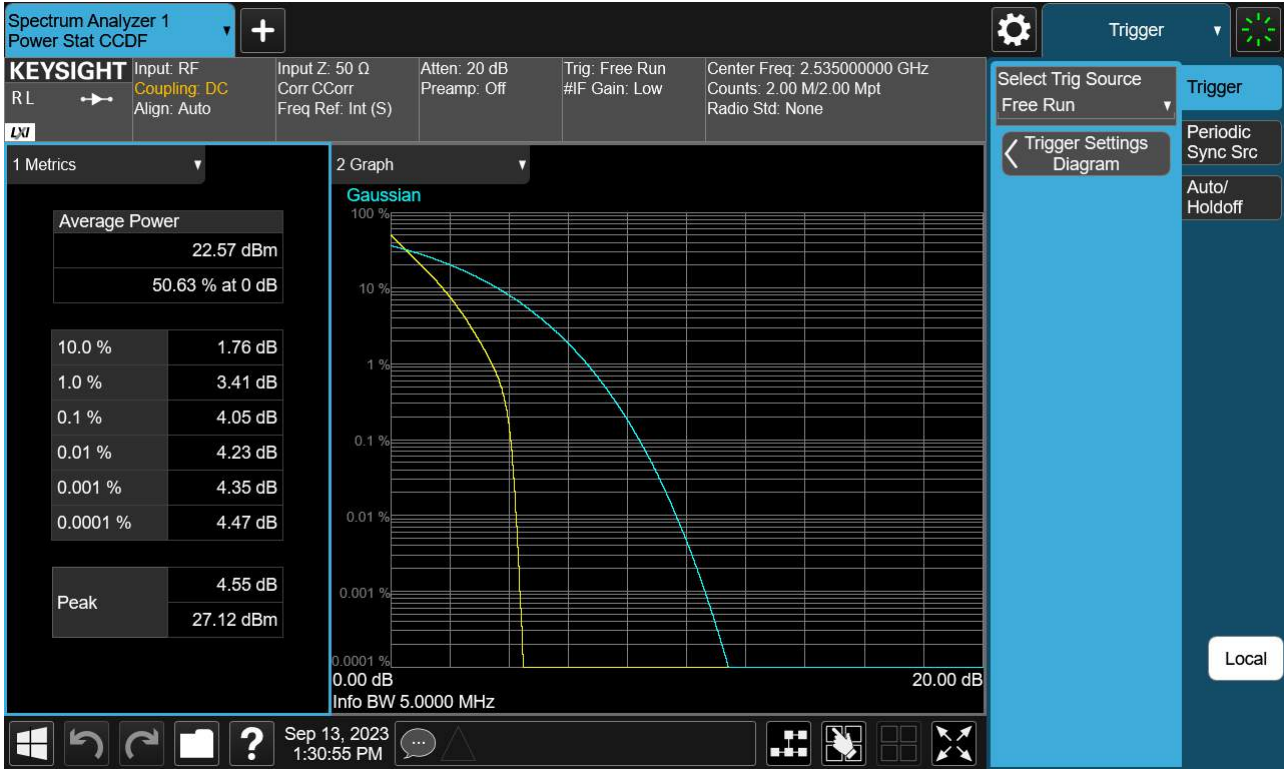
Sub6 n7. Occupied Bandwidth Plot (40 M BW Ch.507000 64QAM)



Sub6 n7. Occupied Bandwidth Plot (40 M BW Ch.507000 256QAM)



Sub6 n7. PAR Plot (5 M BW\_Ch.507000\_ BPSK)



Sub6 n7. PAR Plot (5 M BW\_Ch.507000\_QPSK)





Sub6 n7. PAR Plot (5 M BW\_Ch.507000\_16QAM)



Sub6 n7. PAR Plot (5 M BW\_Ch.507000\_64QAM)



Sub6 n7. PAR Plot (5 M BW\_Ch.507000\_256QAM)



Sub6 n7. PAR Plot (10 M BW\_Ch.507000\_ BPSK)



Sub6 n7. PAR Plot (10 M BW\_Ch.507000\_QPSK)



Sub6 n7. PAR Plot (10 M BW\_Ch.507000\_16QAM)



Sub6 n7. PAR Plot (10 M BW\_Ch.507000\_64QAM)

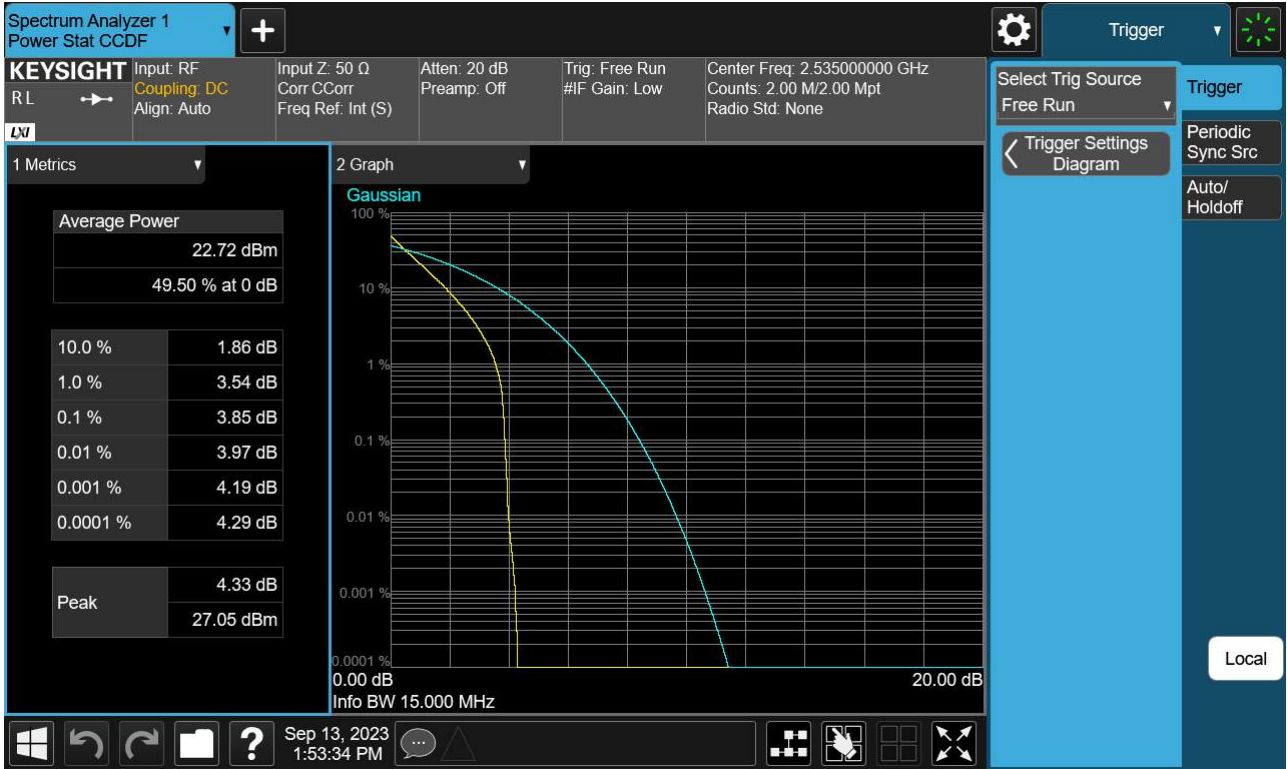


Sub6 n7. PAR Plot (10 M BW\_Ch.507000\_256QAM)





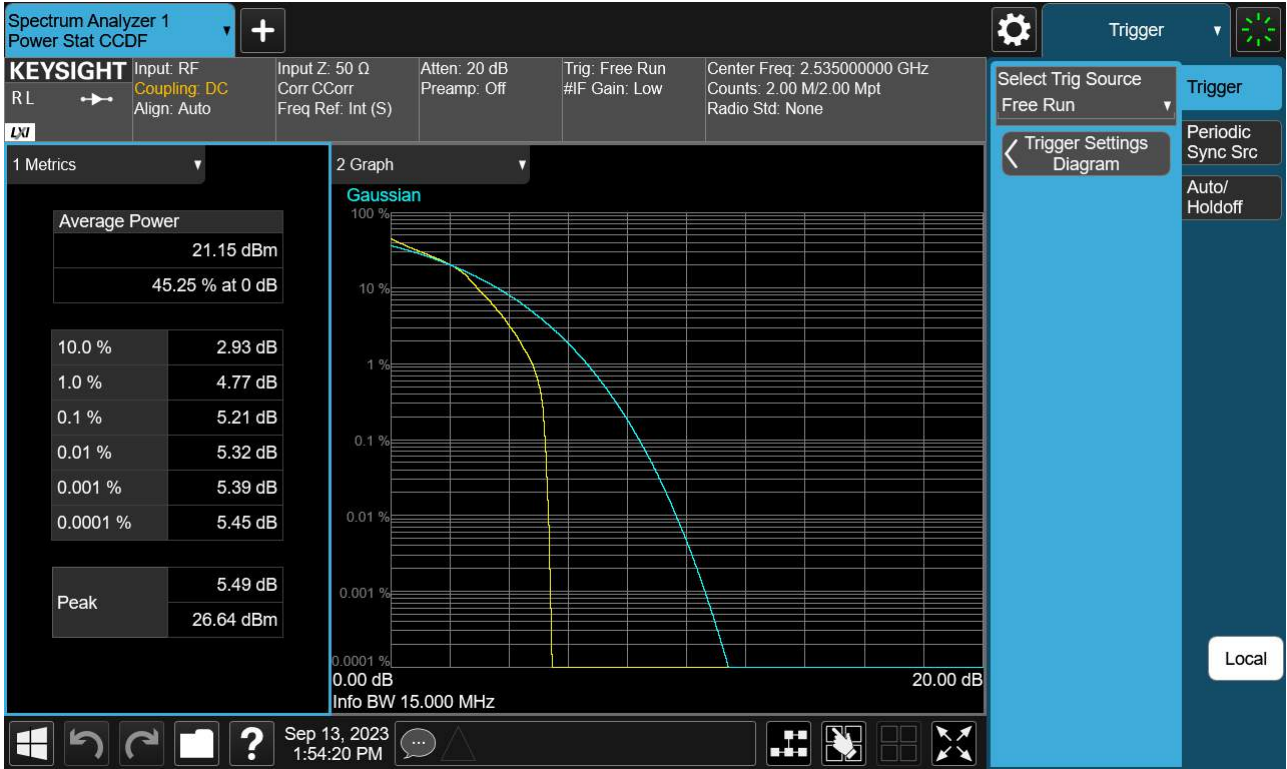
Sub6 n7. PAR Plot (15 M BW\_Ch.507000\_ BPSK)



Sub6 n7. PAR Plot (15 M BW\_Ch.507000\_QPSK)



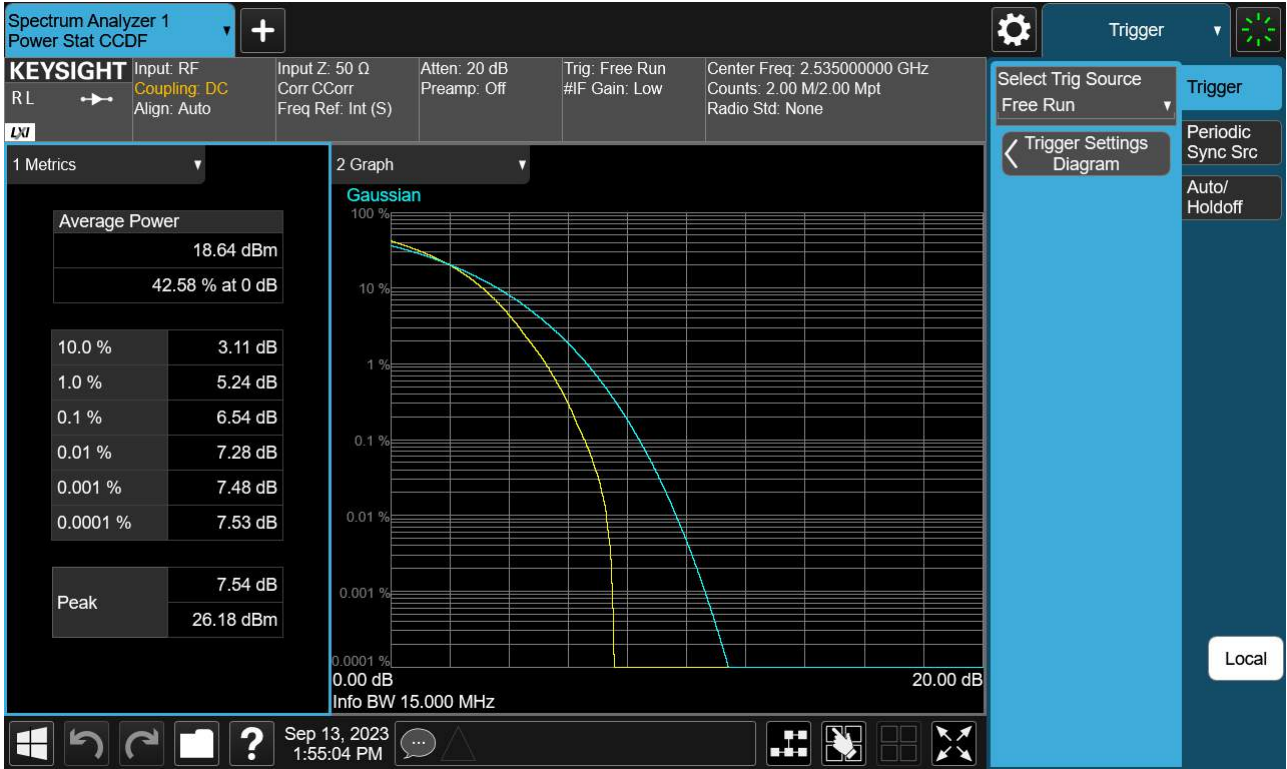
Sub6 n7. PAR Plot (15 M BW\_Ch.507000\_16QAM)



Sub6 n7. PAR Plot (15 M BW\_Ch.507000\_64QAM)



Sub6 n7. PAR Plot (15 M BW\_Ch.507000\_256QAM)



Sub6 n7. PAR Plot (20 M BW\_Ch.507000\_ BPSK)



Sub6 n7. PAR Plot (20 M BW\_Ch.507000\_QPSK)

