

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:
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Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Report No.: HCT-RF-2310-FC044

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

Ant B

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n38 (10)	2575.000 – 2615.000	8M62G7D	PI/2 BPSK	0.155	21.90
		8M66G7D	QPSK	0.153	21.84
		8M67W7D	16QAM	0.126	21.01
		8M66W7D	64QAM	0.089	19.48
		8M67W7D	256QAM	0.053	17.28
Sub6 n38 (15)	2577.500 – 2612.500	13M0G7D	PI/2 BPSK	0.161	22.06
		13M0G7D	QPSK	0.157	21.97
		13M0W7D	16QAM	0.125	20.96
		12M9W7D	64QAM	0.090	19.54
Sub6 n38 (20)	2580.000 – 2610.000	13M0W7D	256QAM	0.055	17.37
		17M9G7D	PI/2 BPSK	0.157	21.95
		18M0G7D	QPSK	0.154	21.88
		18M0W7D	16QAM	0.124	20.94
Sub6 n38 (25)	2582.500 – 2607.500	18M0W7D	64QAM	0.086	19.32
		18M0W7D	256QAM	0.053	17.27
		23M0G7D	PI/2 BPSK	0.170	22.30
		23M0G7D	QPSK	0.164	22.16
Sub6 n38 (30)	2585.000 – 2605.000	22M9W7D	16QAM	0.126	21.02
		23M0W7D	64QAM	0.092	19.62
		23M0W7D	256QAM	0.057	17.57
		27M0G7D	PI/2 BPSK	0.161	22.07
Sub6 n38 (40)	2590.000 – 2600.000	27M0G7D	QPSK	0.157	21.97
		26M9W7D	16QAM	0.124	20.94
		26M9W7D	64QAM	0.089	19.49
		26M9W7D	256QAM	0.055	17.38
Sub6 n38 (40)	2590.000 – 2600.000	35M9G7D	PI/2 BPSK	0.147	21.67
		36M0G7D	QPSK	0.144	21.59
		35M8W7D	16QAM	0.112	20.50
		35M8W7D	64QAM	0.080	19.04
		35M9W7D	256QAM	0.049	16.91

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 F

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n38 (10)	2575.000 – 2615.000	8M65G7D	PI/2 BPSK	0.138	21.40
		8M67G7D	QPSK	0.136	21.35
		8M69W7D	16QAM	0.110	20.41
		8M67W7D	64QAM	0.078	18.90
		8M66W7D	256QAM	0.046	16.63
Sub6 n38 (15)	2577.500 – 2612.500	13M0G7D	PI/2 BPSK	0.151	21.79
		13M0G7D	QPSK	0.140	21.45
		13M0W7D	16QAM	0.111	20.46
		13M0W7D	64QAM	0.079	18.95
		13M0W7D	256QAM	0.048	16.77
Sub6 n38 (20)	2580.000 – 2610.000	18M0G7D	PI/2 BPSK	0.142	21.52
		18M0G7D	QPSK	0.138	21.40
		18M0W7D	16QAM	0.112	20.48
		18M0W7D	64QAM	0.078	18.91
Sub6 n38 (25)	2582.500 – 2607.500	18M0W7D	256QAM	0.047	16.72
		23M1G7D	PI/2 BPSK	0.154	21.88
		23M0G7D	QPSK	0.153	21.85
		23M1W7D	16QAM	0.125	20.97
		23M0W7D	64QAM	0.087	19.39
Sub6 n38 (30)	2585.000 – 2605.000	23M0W7D	256QAM	0.053	17.22
		27M0G7D	PI/2 BPSK	0.144	21.58
		27M0G7D	QPSK	0.142	21.53
		27M0W7D	16QAM	0.114	20.55
		26M9W7D	64QAM	0.080	19.05
Sub6 n38 (40)	2590.000 – 2600.000	27M0W7D	256QAM	0.049	16.94
		35M9G7D	PI/2 BPSK	0.139	21.42
		35M9G7D	QPSK	0.138	21.41
		36M0W7D	16QAM	0.110	20.41
		35M9W7D	64QAM	0.079	18.96
		35M9W7D	256QAM	0.047	16.76

Report No.: HCT-RF-2310-FC044

REVIEWED BY



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

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-FC044	October 16, 2023	- First Approval Report

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMS926U
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§27
EUT Type:	Mobile Phone
Model(s):	SM-S926U
Additional Model(s):	SM-S926U1
SCS(kHz):	30
Bandwidth(MHz):	10, 15, 20, 25, 30, 40
Waveform:	CP-OFDM, DFT-S-OFDM
Modulation:	DFT-S-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
Tx Frequency(SCS 30kHz):	2575.000 – 2615.000 : 10 MHz 2577.500 – 2612.500 : 15 MHz 2580.000 – 2610.000 : 20 MHz 2582.500 – 2607.500 : 25 MHz 2585.000 – 2605.000 : 30 MHz 2590.000 – 2600.000 : 40 MHz
Date(s) of Tests:	August 31, 2023 ~ October 16, 2023
Serial number:	Radiated: R3CW90B4EDB (Ant B), R3CW80ME13Y (Ant F) Conducted: 741c314dee0f7ece (Ant B), R3CW80MAK7Y (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 10th harmonics from 9 kHz.

Test Note

1. Measurements value show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
2. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the test data
3. For spurious emissions above 1 GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated. The spurious emissions is calculated by the following formula;

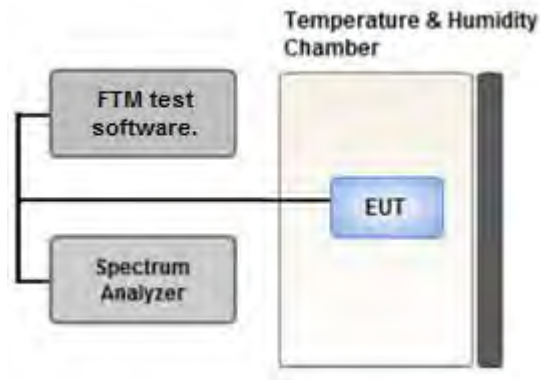
$$\text{Result}_{(dBm)} = P_g_{(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dBi)}$$

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)

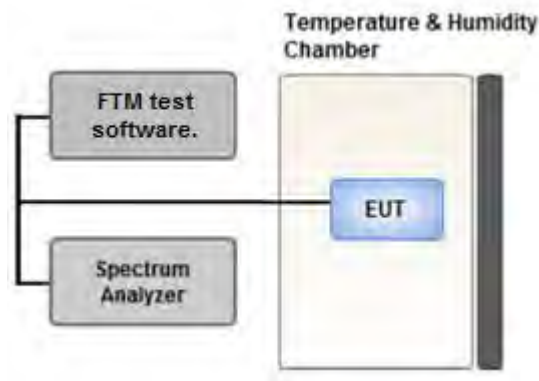
The measurement instrument must have RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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 $\geq [10 \times$ (number of points in sweep) \times (transmission period)] for single sweep (automation-compatible) measurement. The transmission period is the (on + off) time.
6. Detector = power averaging (rms).
7. Set sweep trigger to "free run."
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. (To accurately determine the average power over the on and off period of the transmitter, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.)
9. Use the peak marker function to determine the maximum amplitude level.
10. Add $[10 \log (1/\text{duty cycle})]$ to the measured maximum power level to compute the average power during continuous transmission. For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is a constant 25 %.

3.5 OCCUPIED BANDWIDTH.



Test setup

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

The EUT makes a call to the communication simulator.

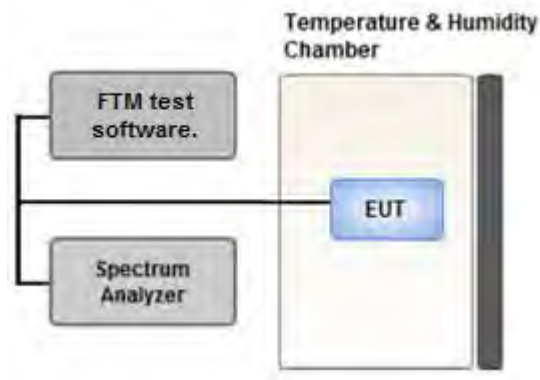
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99 % occupied bandwidth and the 26 dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5 % of the expected OBW
3. VBW \geq 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5 % of the 99 % occupied bandwidth observed in Step 7

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

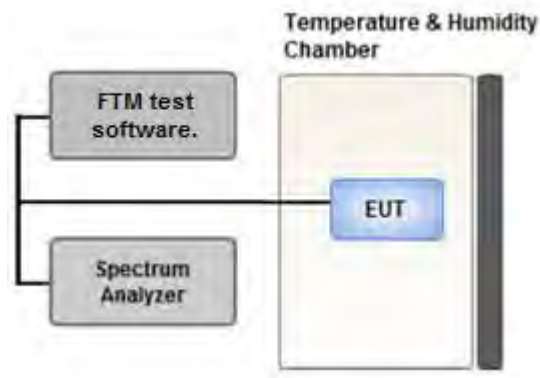
Test Overview

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

Test Settings

1. RBW = 1 MHz
2. VBW \geq 3 MHz
3. Detector = RMS
4. Trace Mode = trace 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

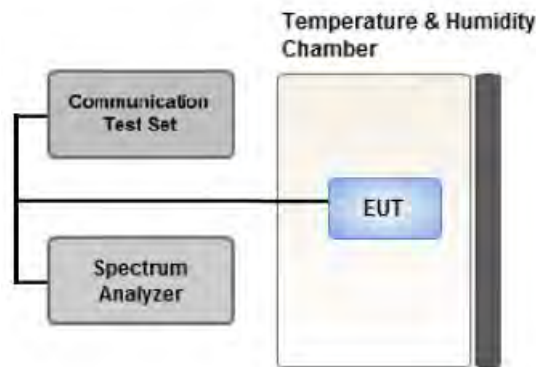
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Within 1 MHz of the channel edge the RBW should be 2 % of EBW, then 1 MHz after that.
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/\text{RBW}$
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: SA Only

Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)

Worst case : Stand alone

- 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
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

[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	10, 15, 20, 25, 30, 40	Mid	Full RB	0		
Channel Edge	PI/2 BPSK	10	Low	1	0		
			High	1	23		
		15	Low	1	0		
			High	1	37		
		20	Low	1	0		
			High	1	50		
		25	Low	1	0		
			High	1	64		
		30	Low	1	0		
			High	1	77		
		40	Low	1	0		
			High	1	105		
				10, 15, 20, 25, 30, 40	Low, Mid High	Full RB	0
		Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	10, 15, 20, 25, 30, 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_{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"> ■ $< 40 + 10\log_{10} (P[\text{Watts}])$ at Channel edges ■ $< 43 + 10\log_{10} (P[\text{Watts}])$ between 5 and X MHz from Channel edges ■ $< 55 + 10\log_{10} (P[\text{Watts}])$ beyond X MHz beyond from Channel edges ■ $< 43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz 	PASS
Conducted Output Power	§2.1046	N/A	<u>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

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

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

7.2 EIRP Sample Calculation

Ch./ Freq.		Measured Level(dBm)	Substitute Level(dBm)	Ant. Gain (dBi)	C.L	Pol.	EIRP	
channel	Freq.(MHz)						W	dBm
519000	2593.0	-15.75	18.45	9.90	1.76	H	0.456	26.59

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

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

7.3. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

8. TEST DATA(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
2575.000	Sub6 38/ 10 MHz [30 kHz]	PI/2 BPSK	-22.51	13.86	10.20	2.58	H	< 2.00	0.141	21.48	1	1
		QPSK	-22.57	13.80	10.20	2.58	H		0.139	21.42		
		16-QAM	-23.71	12.66	10.20	2.58	H		0.107	20.28		
		64-QAM	-25.14	11.23	10.20	2.58	H		0.077	18.85		
		256-QAM	-27.31	9.06	10.20	2.58	H		0.047	16.68		
2595.000		PI/2 BPSK	-22.64	13.66	10.05	2.50	H		0.132	21.21	1	22
		QPSK	-22.71	13.59	10.05	2.50	H		0.130	21.14		
		16-QAM	-23.70	12.60	10.05	2.50	H		0.104	20.15		
		64-QAM	-25.22	11.08	10.05	2.50	H		0.073	18.63		
		256-QAM	-27.30	9.00	10.05	2.50	H		0.045	16.55		
2615.000	PI/2 BPSK	-22.36	14.54	9.90	2.55	H	0.155	21.90	1	1		
	QPSK	-22.42	14.48	9.90	2.55	H	0.153	21.84				
	16-QAM	-23.25	13.65	9.90	2.55	H	0.126	21.01				
	64-QAM	-24.78	12.12	9.90	2.55	H	0.089	19.48				
	256-QAM	-26.98	9.92	9.90	2.55	H	0.053	17.28				

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP		RB	
									W	dBm	Size	Offset
2577.500	Sub6 38/ 15 MHz [30 kHz]	PI/2 BPSK	-22.70	13.50	10.20	2.56	H	< 2.00	0.130	21.14	1	1
		QPSK	-22.86	13.34	10.20	2.56	H		0.125	20.98		
		16-QAM	-23.83	12.37	10.20	2.56	H		0.100	20.01		
		64-QAM	-25.31	10.89	10.20	2.56	H		0.071	18.53		
		256-QAM	-27.35	8.85	10.20	2.56	H		0.045	16.49		
2595.000		PI/2 BPSK	-22.55	13.75	10.05	2.50	H		0.135	21.30	1	1
		QPSK	-22.61	13.69	10.05	2.50	H		0.133	21.24		
		16-QAM	-23.57	12.73	10.05	2.50	H		0.107	20.28		
		64-QAM	-24.99	11.31	10.05	2.50	H		0.077	18.86		
		256-QAM	-27.12	9.18	10.05	2.50	H		0.047	16.73		
2612.500	PI/2 BPSK	-22.37	14.67	9.90	2.51	H	0.161	22.06	1	19		
	QPSK	-22.46	14.58	9.90	2.51	H	0.157	21.97				
	16-QAM	-23.47	13.57	9.90	2.51	H	0.125	20.96				
	64-QAM	-24.89	12.15	9.90	2.51	H	0.090	19.54				
	256-QAM	-27.06	9.98	9.90	2.51	H	0.055	17.37				

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
2580.000	Sub6 38/ 20 MHz [30 kHz]	PI/2 BPSK	-22.65	13.55	10.20	2.56	H	< 2.00	0.132	21.19	1	49
		QPSK	-22.71	13.49	10.20	2.56	H		0.130	21.13		
		16-QAM	-23.77	12.43	10.20	2.56	H		0.102	20.07		
		64-QAM	-25.08	11.12	10.20	2.56	H		0.075	18.76		
		256-QAM	-27.29	8.91	10.20	2.56	H		0.045	16.55		
2595.000		PI/2 BPSK	-22.57	13.73	10.05	2.50	H		0.134	21.28	1	49
		QPSK	-22.66	13.64	10.05	2.50	H		0.132	21.19		
		16-QAM	-23.80	12.50	10.05	2.50	H		0.101	20.05		
		64-QAM	-25.21	11.09	10.05	2.50	H		0.073	18.64		
		256-QAM	-27.30	9.00	10.05	2.50	H		0.045	16.55		
2610.000		PI/2 BPSK	-22.48	14.56	9.90	2.51	H		0.157	21.95	1	25
		QPSK	-22.55	14.49	9.90	2.51	H		0.154	21.88		
		16-QAM	-23.49	13.55	9.90	2.51	H		0.124	20.94		
		64-QAM	-25.11	11.93	9.90	2.51	H		0.086	19.32		
		256-QAM	-27.16	9.88	9.90	2.51	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	dBm	Size	Offset
2582.500	Sub6 38/ 25 MHz [30 kHz]	PI/2 BPSK	-22.42	13.78	10.20	2.56	H	< 2.00	0.139	21.42	1	1
		QPSK	-22.47	13.73	10.20	2.56	H		0.137	21.37		
		16-QAM	-23.60	12.60	10.20	2.56	H		0.106	20.24		
		64-QAM	-25.03	11.17	10.20	2.56	H		0.076	18.81		
		256-QAM	-27.06	9.14	10.20	2.56	H		0.048	16.78		
2595.000		PI/2 BPSK	-22.20	14.10	10.05	2.50	H		0.146	21.65	1	63
		QPSK	-22.31	13.99	10.05	2.50	H		0.143	21.54		
		16-QAM	-23.49	12.81	10.05	2.50	H		0.109	20.36		
		64-QAM	-24.86	11.44	10.05	2.50	H		0.079	18.99		
		256-QAM	-26.83	9.47	10.05	2.50	H		0.050	17.02		
2607.500		PI/2 BPSK	-22.13	14.91	9.90	2.51	H		0.170	22.30	1	32
		QPSK	-22.27	14.77	9.90	2.51	H		0.164	22.16		
		16-QAM	-23.41	13.63	9.90	2.51	H		0.126	21.02		
		64-QAM	-24.81	12.23	9.90	2.51	H		0.092	19.62		
		256-QAM	-26.86	10.18	9.90	2.51	H		0.057	17.57		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W	dBm	Size
2585.000	Sub6 38/ 30 MHz [30 kHz]	PI/2 BPSK	-22.27	13.93	10.20	2.54	H	< 2.00	0.144	21.59	1	76
		QPSK	-22.34	13.86	10.20	2.54	H		0.142	21.52		
		16-QAM	-23.58	12.62	10.20	2.54	H		0.107	20.28		
		64-QAM	-24.91	11.29	10.20	2.54	H		0.079	18.95		
		256-QAM	-27.05	9.15	10.20	2.54	H		0.048	16.81		
2595.000		PI/2 BPSK	-22.16	14.14	10.05	2.50	H		0.148	21.69	1	1
		QPSK	-22.24	14.06	10.05	2.50	H		0.145	21.61		
		16-QAM	-23.56	12.74	10.05	2.50	H		0.107	20.29		
		64-QAM	-24.92	11.38	10.05	2.50	H		0.078	18.93		
		256-QAM	-27.00	9.30	10.05	2.50	H		0.048	16.85		
2605.000	PI/2 BPSK	-22.06	14.66	9.90	2.50	H	0.161	22.07	1	39		
	QPSK	-22.16	14.56	9.90	2.50	H	0.157	21.97				
	16-QAM	-23.19	13.53	9.90	2.50	H	0.124	20.94				
	64-QAM	-24.64	12.08	9.90	2.50	H	0.089	19.49				
	256-QAM	-26.75	9.97	9.90	2.50	H	0.055	17.38				

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
2590.000	Sub6 38/ 40 MHz [30 kHz]	PI/2 BPSK	-22.32	13.87	10.20	2.52	H	< 2.00	0.143	21.55	1	104
		QPSK	-22.42	13.77	10.20	2.52	H		0.140	21.45		
		16-QAM	-23.58	12.61	10.20	2.52	H		0.107	20.29		
		64-QAM	-24.90	11.29	10.20	2.52	H		0.079	18.97		
		256-QAM	-26.96	9.23	10.20	2.52	H		0.049	16.91		
2595.000		PI/2 BPSK	-22.18	14.12	10.05	2.50	H		0.147	21.67	1	104
		QPSK	-22.26	14.04	10.05	2.50	H		0.144	21.59		
		16-QAM	-23.35	12.95	10.05	2.50	H		0.112	20.50		
		64-QAM	-24.81	11.49	10.05	2.50	H		0.080	19.04		
		256-QAM	-26.95	9.35	10.05	2.50	H		0.049	16.90		
2600.000	PI/2 BPSK	-22.29	14.12	9.90	2.48	H	0.143	21.54	1	1		
	QPSK	-22.43	13.98	9.90	2.48	H	0.138	21.40				
	16-QAM	-23.48	12.93	9.90	2.48	H	0.108	20.35				
	64-QAM	-24.92	11.49	9.90	2.48	H	0.078	18.91				
	256-QAM	-27.00	9.41	9.90	2.48	H	0.048	16.83				

8.2 RADIATED SPURIOUS EMISSIONS

- NR Band: N38
- Bandwidth: 10 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
515000 (2575.000)	5 150.00	-60.77	11.00	-63.03	3.64	V	-55.67	-25.00	1	1
	7 725.00	-64.60	11.00	-57.48	4.54	V	-51.02	-25.00		
	10 300.00	-65.05	11.10	-54.73	5.35	V	-48.98	-25.00		
	12 875.00	-63.91	11.90	-53.17	6.13	V	-47.40	-25.00		
	15 450.00	-61.15	15.40	-55.94	6.75	V	-47.29	-25.00		
519000 (2595.000)	5 190.00	-63.46	11.00	-65.26	3.70	H	-57.96	-25.00	1	22
	7 785.00	-64.19	10.90	-56.88	4.61	H	-50.59	-25.00		
	10 380.00	-65.03	11.20	-54.60	5.40	H	-48.80	-25.00		
	12 975.00	-64.04	12.00	-54.07	6.13	H	-48.19	-25.00		
	15 570.00	-61.09	15.40	-55.69	6.78	H	-47.07	-25.00		
523000 (2615.000)	5 230.00	-61.88	11.10	-63.82	3.72	V	-56.44	-25.00	1	1
	7 845.00	-64.49	10.65	-57.33	4.59	V	-51.27	-25.00		
	10 460.00	-63.98	11.30	-54.07	5.42	V	-48.19	-25.00		
	13 075.00	-62.49	12.10	-52.49	6.16	V	-46.55	-25.00		
	15 690.00	-62.76	15.20	-56.48	6.80	V	-48.08	-25.00		

- NR Band: N38
- Bandwidth: 15 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
515500 (2577.500)	5 155.00	-61.51	11.00	-63.67	3.67	H	-56.33	-25.00	1	1
	7 732.50	-65.25	11.00	-58.28	4.53	H	-51.81	-25.00		
	10 310.00	-64.08	11.10	-53.25	5.35	H	-47.50	-25.00		
	12 887.50	-65.47	11.90	-55.11	6.16	H	-49.37	-25.00		
	15 465.00	-62.07	15.40	-57.33	6.75	H	-48.68	-25.00		
519000 (2595.000)	5 190.00	-61.54	11.00	-63.34	3.70	H	-56.04	-25.00	1	1
	7 785.00	-65.37	10.90	-58.06	4.61	H	-51.77	-25.00		
	10 380.00	-64.74	11.20	-54.31	5.40	H	-48.51	-25.00		
	12 975.00	-63.50	12.00	-53.53	6.13	H	-47.65	-25.00		
	15 570.00	-61.22	15.40	-55.82	6.78	H	-47.20	-25.00		
522500 (2612.500)	5 225.00	-62.41	11.10	-64.42	3.72	H	-57.03	-25.00	1	19
	7 837.50	-64.94	10.70	-57.69	4.59	H	-51.58	-25.00		
	10 450.00	-65.60	11.30	-54.97	5.42	H	-49.09	-25.00		
	13 062.50	-62.07	12.10	-52.20	6.14	H	-46.24	-25.00		
	15 675.00	-63.83	15.20	-57.63	6.81	H	-49.24	-25.00		

- NR Band: N38
- Bandwidth: 20 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
516000 (2580.000)	5 160.00	-61.84	11.00	-63.89	3.69	V	-56.58	-25.00	1	49
	7 740.00	-64.53	11.00	-57.84	4.55	V	-51.39	-25.00		
	10 320.00	-64.03	11.10	-53.27	5.34	V	-47.51	-25.00		
	12 900.00	-65.99	11.90	-55.78	6.13	V	-50.01	-25.00		
	15 480.00	-61.61	15.40	-56.99	6.75	V	-48.34	-25.00		
519000 (2595.000)	5 190.00	-62.39	11.00	-64.19	3.70	V	-56.89	-25.00	1	49
	7 785.00	-64.50	10.90	-57.19	4.61	V	-50.90	-25.00		
	10 380.00	-62.55	11.20	-52.12	5.40	V	-46.32	-25.00		
	12 975.00	-63.32	12.00	-53.35	6.13	V	-47.47	-25.00		
	15 570.00	-61.16	15.40	-55.76	6.78	V	-47.14	-25.00		
522000 (2610.000)	5 220.00	-62.81	11.10	-64.89	3.71	V	-57.50	-25.00	1	25
	7 830.00	-65.07	10.70	-57.39	4.60	V	-51.29	-25.00		
	10 440.00	-64.64	11.20	-54.67	5.39	V	-48.86	-25.00		
	13 050.00	-63.62	12.10	-53.38	6.13	V	-47.41	-25.00		
	15 660.00	-62.09	15.20	-55.89	6.81	V	-47.50	-25.00		

- NR Band: N38
- Bandwidth: 25 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
516500 (2582.500)	5 165.00	-63.60	11.00	-65.45	3.71	V	-58.15	-25.00	1	1
	7 747.50	-65.78	10.90	-59.06	4.56	V	-52.72	-25.00		
	10 330.00	-64.78	11.10	-54.50	5.33	V	-48.73	-25.00		
	12 912.50	-66.90	11.90	-56.53	6.12	V	-50.75	-25.00		
	15 495.00	-61.07	15.40	-56.07	6.76	V	-47.43	-25.00		
519000 (2595.000)	5 190.00	-62.11	11.00	-63.91	3.70	V	-56.61	-25.00	1	63
	7 785.00	-65.09	10.90	-57.78	4.61	V	-51.49	-25.00		
	10 380.00	-64.32	11.20	-53.89	5.40	V	-48.09	-25.00		
	12 975.00	-64.35	12.00	-54.38	6.13	V	-48.50	-25.00		
	15 570.00	-60.85	15.40	-55.45	6.78	V	-46.83	-25.00		
523000 (2607.500)	5 215.00	-61.33	11.10	-63.61	3.71	V	-56.22	-25.00	1	32
	7 822.50	-64.76	10.70	-57.58	4.61	V	-51.49	-25.00		
	10 430.00	-63.72	11.20	-52.83	5.39	V	-47.02	-25.00		
	13 037.50	-65.02	12.00	-54.85	6.12	V	-48.97	-25.00		
	15 645.00	-62.08	15.30	-56.19	6.81	V	-47.69	-25.00		

- NR Band: N38
- Bandwidth: 30 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
517000 (2585.000)	5 170.00	-62.82	11.00	-64.47	3.72	V	-57.19	-25.00	1	76
	7 755.00	-65.44	10.90	-58.53	4.58	V	-52.21	-25.00		
	10 340.00	-65.18	11.10	-55.16	5.35	V	-49.41	-25.00		
	12 925.00	-66.33	11.90	-55.66	6.09	V	-49.85	-25.00		
	15 510.00	-62.12	15.40	-56.73	6.77	V	-48.10	-25.00		
519000 (2595.000)	5 190.00	-62.93	11.00	-64.73	3.70	V	-57.43	-25.00	1	1
	7 785.00	-65.09	10.90	-57.78	4.61	V	-51.49	-25.00		
	10 380.00	-62.68	11.20	-52.25	5.40	V	-46.45	-25.00		
	12 975.00	-64.25	12.00	-54.28	6.13	V	-48.40	-25.00		
	15 570.00	-62.20	15.40	-56.80	6.78	V	-48.18	-25.00		
521000 (2605.000)	5 210.00	-63.07	11.10	-65.55	3.70	V	-58.15	-25.00	1	39
	7 815.00	-64.68	10.70	-57.47	4.61	V	-51.38	-25.00		
	10 420.00	-64.97	11.20	-55.17	5.38	V	-49.35	-25.00		
	13 025.00	-65.35	12.00	-55.26	6.12	V	-49.38	-25.00		
	15 630.00	-62.60	15.40	-56.92	6.80	V	-48.32	-25.00		

- NR Band: N38
- Bandwidth: 40 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
518000 (2590.000)	5 180.00	-62.42	11.00	-63.62	3.71	V	-56.33	-25.00	1	104
	7 770.00	-65.40	10.90	-57.94	4.61	V	-51.65	-25.00		
	10 360.00	-64.39	11.20	-54.08	5.38	V	-48.26	-25.00		
	12 950.00	-64.33	12.00	-53.98	6.08	V	-48.06	-25.00		
	15 540.00	-62.57	15.40	-57.45	6.77	V	-48.82	-25.00		
519000 (2595.000)	5 190.00	-62.41	11.00	-64.21	3.70	V	-56.91	-25.00	1	104
	7 785.00	-65.10	10.90	-57.79	4.61	V	-51.50	-25.00		
	10 380.00	-64.53	11.20	-54.10	5.40	V	-48.30	-25.00		
	12 975.00	-64.03	12.00	-54.06	6.13	V	-48.18	-25.00		
	15 570.00	-61.59	15.40	-56.19	6.78	V	-47.57	-25.00		
520000 (2600.000)	5 200.00	-60.74	11.10	-62.70	3.68	V	-55.28	-25.00	1	1
	7 800.00	-63.85	10.70	-57.03	4.61	V	-50.94	-25.00		
	10 400.00	-63.94	11.20	-54.43	5.37	V	-48.60	-25.00		
	13 000.00	-64.38	12.00	-54.36	6.15	V	-48.51	-25.00		
	15 600.00	-62.89	15.40	-58.05	6.79	V	-49.44	-25.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n38	10 MHz	2595.000	BPSK	24	0	3.85
			QPSK			4.43
			16-QAM			5.43
			64-QAM			5.90
			256-QAM			6.70
	15 MHz		BPSK	36		3.79
			QPSK			4.39
			16-QAM			5.32
			64-QAM			5.83
			256-QAM			6.47
	20 MHz		BPSK	50		3.91
			QPSK			4.43
			16-QAM			5.43
			64-QAM			5.85
			256-QAM			6.54
	25 MHz		BPSK	64		4.05
			QPSK			4.57
			16-QAM			5.74
			64-QAM			6.12
			256-QAM			6.59
30 MHz	BPSK	75	3.91			
	QPSK		4.47			
	16-QAM		5.50			
	64-QAM		6.01			
	256-QAM		6.53			
40 MHz	BPSK	100	3.97			
	QPSK		4.50			
	16-QAM		5.42			
	64-QAM		5.93			
	256-QAM		6.64			

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 104 ~ 133.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n38	10 MHz	2595.000	BPSK	24	0	8.6231
			QPSK			8.6642
			16-QAM			8.6654
			64-QAM			8.6597
			256-QAM			8.6700
	15 MHz		BPSK	36		12.996
			QPSK			13.000
			16-QAM			12.995
			64-QAM			12.939
			256-QAM			13.037
	20 MHz		BPSK	50		17.910
			QPSK			17.971
			16-QAM			18.023
			64-QAM			17.973
			256-QAM			17.981
	25 MHz		BPSK	64		23.018
			QPSK			22.997
			16-QAM			22.935
			64-QAM			22.981
			256-QAM			22.965
30 MHz	BPSK	75	27.019			
	QPSK		26.969			
	16-QAM		26.898			
	64-QAM		26.924			
	256-QAM		26.876			
40 MHz	BPSK	100	35.882			
	QPSK		35.955			
	16-QAM		35.839			
	64-QAM		35.834			
	256-QAM		35.904			

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 74 ~ 103.

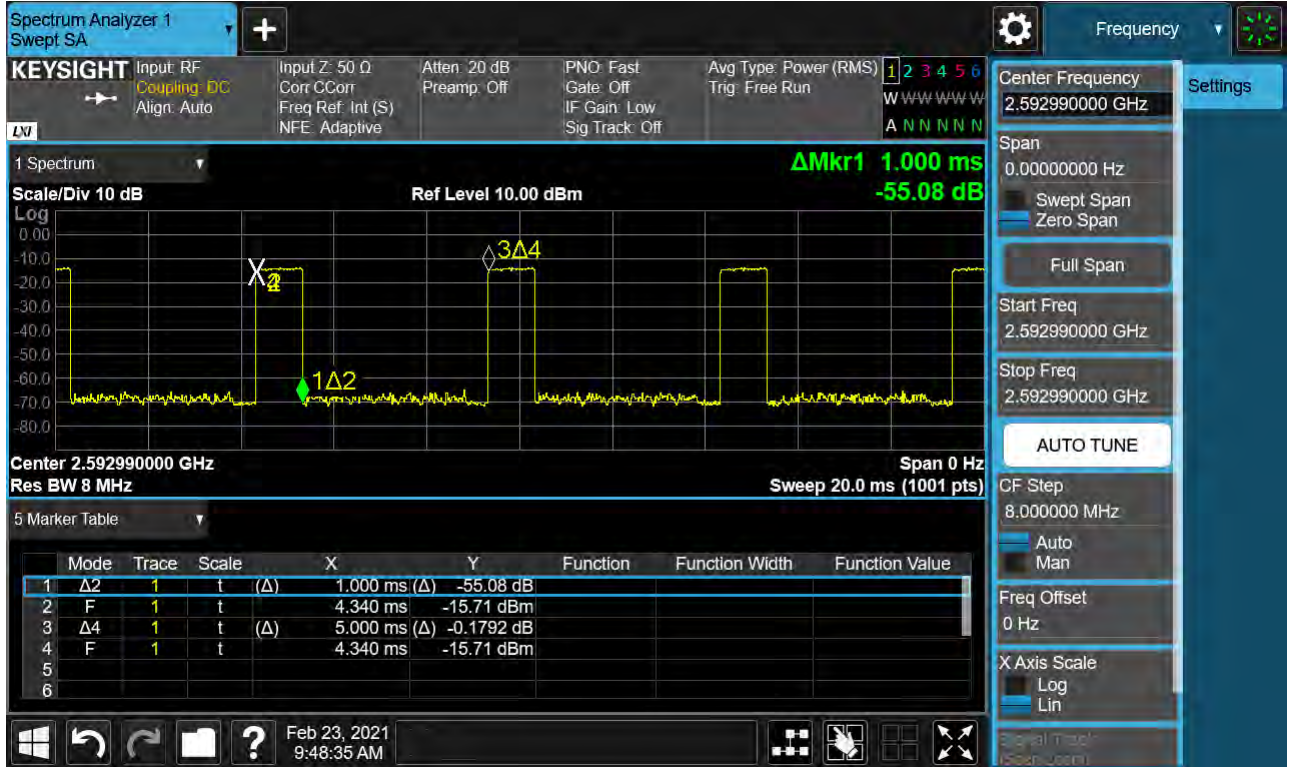
8.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n38	10	2575.000	7.1576	37.805	-71.176	-33.371	-25.00
		2595.000	5.1800	37.805	-70.455	-32.650	
		2615.000	6.0534	37.805	-71.140	-33.335	
	15	2577.500	3.7274	37.190	-71.092	-33.902	
		2595.000	9.1316	37.805	-70.869	-33.064	
		2612.500	8.3101	37.805	-70.712	-32.907	
	20	2580.000	4.0404	37.190	-70.027	-32.837	
		2595.000	9.6899	37.805	-70.984	-33.179	
		2610.000	3.8007	37.190	-69.975	-32.785	
	25	2582.500	3.7588	37.190	-70.953	-33.763	
		2595.000	3.7942	37.190	-70.953	-33.763	
		2607.500	4.6022	37.190	-71.062	-33.872	
	30	2585.000	3.7473	37.190	-71.594	-34.404	
		2595.000	4.8490	37.190	-70.852	-33.662	
		2605.000	5.7613	37.805	-71.360	-33.555	
	40	2590.000	4.8306	37.190	-71.365	-34.175	
		2595.000	9.7094	37.805	-69.915	-32.110	
		2600.000	4.8724	37.190	-71.063	-33.873	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 164 ~ 199.
2. Duty Cycle factor already applied on the factor.

- Duty Cycle Factor(dB) = 6.99



- Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter

- Result(dBm) = Reading + Factor

3. Factor(dB)

Frequency Range (GHz)	Factor [dB]
0.03 – 1	34.484
1 – 5	37.190
5 – 10	37.805
10 – 15	38.330
15 – 20	38.703
Above 20	39.345

8.6 CHANNEL EDGE

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	C.E ~ (C.E ± 1 MHz)		(C.E ± 1 MHz) ~ (C.E ± 5 MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2575.000	BPSK	Full RB	0	-24.36	-25.08	-29.18	-29.28
	2595.000	BPSK	Full RB	0	-23.19	-23.98	-29.13	-30.66
	2615.000	BPSK	Full RB	0	-24.02	-24.67	-28.74	-29.78
15 MHz	2577.500	BPSK	Full RB	0	-24.53	-33.11	-31.29	-34.68
	2595.000	BPSK	Full RB	0	-22.73	-34.91	-29.96	-33.97
	2612.500	BPSK	Full RB	0	-23.60	-34.92	-29.55	-32.48
20 MHz	2580.000	BPSK	Full RB	0	-25.47	-31.50	-32.48	-36.56
	2595.000	BPSK	Full RB	0	-24.82	-31.56	-31.77	-36.31
	2610.000	BPSK	Full RB	0	-24.86	-30.58	-30.70	-32.88
25 MHz	2582.500	BPSK	Full RB	0	-24.80	-29.58	-32.30	-32.92
	2595.000	BPSK	Full RB	0	-23.49	-29.49	-31.09	-33.41
	2607.500	BPSK	Full RB	0	-25.76	-30.23	-32.76	-34.65
30 MHz	2585.000	BPSK	Full RB	0	-27.16	-35.02	-32.54	-34.85
	2595.000	BPSK	Full RB	0	-27.16	-33.89	-33.12	-34.42
	2605.000	BPSK	Full RB	0	-25.42	-30.97	-29.60	-31.07
40 MHz	2590.000	BPSK	Full RB	0	-25.43	-32.92	-31.81	-33.97
	2595.000	BPSK	Full RB	0	-26.39	-37.49	-34.16	-38.24
	2600.000	BPSK	Full RB	0	-25.61	-37.78	-34.64	-37.14
Limit(dBm)					-10.0		-10.0	

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	(C.E ± 5 MHz) ~ (C.E ± X MHz)		Above (C.E ± X MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2575.000	BPSK	Full RB	0	-32.20	-33.52	-38.39	-36.66
	2595.000	BPSK	Full RB	0	-33.86	-34.83	-35.64	-35.54
	2615.000	BPSK	Full RB	0	-32.74	-31.31	-37.61	-36.49
15 MHz	2577.500	BPSK	Full RB	0	-35.91	-33.32	-41.17	-38.28
	2595.000	BPSK	Full RB	0	-33.32	-33.11	-40.87	-39.96
	2612.500	BPSK	Full RB	0	-31.76	-31.50	-41.22	-40.70
20 MHz	2580.000	BPSK	Full RB	0	-33.58	-35.65	-39.64	-38.65
	2595.000	BPSK	Full RB	0	-32.83	-35.73	-39.07	-38.16
	2610.000	BPSK	Full RB	0	-33.85	-32.56	-39.59	-37.84
25 MHz	2582.500	BPSK	Full RB	0	-36.60	-32.27	-43.46	-37.78
	2595.000	BPSK	Full RB	0	-35.08	-34.19	-38.29	-39.16
	2607.500	BPSK	Full RB	0	-35.58	-33.74	-41.67	-42.06
30 MHz	2585.000	BPSK	Full RB	0	-35.86	-35.92	-43.95	-40.83
	2595.000	BPSK	Full RB	0	-34.66	-36.68	-44.74	-39.88
	2605.000	BPSK	Full RB	0	-31.52	-32.79	-42.02	-42.37
40 MHz	2590.000	BPSK	Full RB	0	-34.30	-35.95	-42.39	-38.99
	2595.000	BPSK	Full RB	0	-33.09	-37.29	-42.90	-41.35
	2600.000	BPSK	Full RB	0	-35.21	-35.91	-42.81	-39.27
Limit(dBm)					-13.0		-25.0	

Note:

1. C.E = Channel Edge
2. X = X is the greater of 6 MHz or the actual emission bandwidth
3. Duty Cycle factor already applied on the factor.
 - Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter
 - Result(dBm) = Reading + Factor
 - Duty Cycle Factor(dB) = 6.99
4. Plots of the EUT's Channel Edge are shown Page 134 ~ 163. (1RB & Full RB)

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ 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
2575.000	100 %	+20(Ref)	2575 000 006	0.0	0.000 000	0.000
	100 %	-30	2575 000 001	-4.2	0.000 000	-0.002
	100 %	-20	2575 000 001	-4.3	0.000 000	-0.002
	100 %	-10	2575 000 007	1.3	0.000 000	0.000
	100 %	0	2575 000 000	-5.5	0.000 000	-0.002
	100 %	+10	2575 000 007	1.3	0.000 000	0.001
	100 %	+30	2575 000 005	-0.5	0.000 000	0.000
	100 %	+40	2575 000 005	-0.3	0.000 000	0.000
	100 %	+50	2575 000 003	-2.8	0.000 000	-0.001
	Batt. Endpoint	+20	2575 000 005	-0.4	0.000 000	0.000
2615.000	100 %	+20(Ref)	2615 000 000	0.0	0.000 000	0.000
	100 %	-30	2614 999 996	-3.9	0.000 000	-0.002
	100 %	-20	2615 000 004	4.7	0.000 000	0.002
	100 %	-10	2615 000 000	0.8	0.000 000	0.000
	100 %	0	2614 999 996	-3.2	0.000 000	-0.001
	100 %	+10	2614 999 992	-7.8	0.000 000	-0.003
	100 %	+30	2614 999 998	-1.1	0.000 000	0.000
	100 %	+40	2614 999 999	-0.9	0.000 000	0.000
	100 %	+50	2615 000 002	2.7	0.000 000	0.001
	Batt. Endpoint	+20	2615 000 008	8.2	0.000 000	0.003

- 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
2577.500	100 %	+20(Ref)	2577 500 000	0.0	0.000 000	0.000
	100 %	-30	2577 499 995	-4.3	0.000 000	-0.002
	100 %	-20	2577 500 004	4.3	0.000 000	0.002
	100 %	-10	2577 499 998	-1.6	0.000 000	-0.001
	100 %	0	2577 500 001	1.5	0.000 000	0.001
	100 %	+10	2577 499 993	-6.6	0.000 000	-0.003
	100 %	+30	2577 499 999	-0.3	0.000 000	0.000
	100 %	+40	2577 500 002	2.4	0.000 000	0.001
	100 %	+50	2577 500 003	3.0	0.000 000	0.001
	Batt. Endpoint	+20	2577 500 001	1.5	0.000 000	0.001
2612.500	100 %	+20(Ref)	2612 500 003	0.0	0.000 000	0.000
	100 %	-30	2612 499 998	-5.1	0.000 000	-0.002
	100 %	-20	2612 500 002	-0.7	0.000 000	0.000
	100 %	-10	2612 499 998	-5.0	0.000 000	-0.002
	100 %	0	2612 500 005	2.3	0.000 000	0.001
	100 %	+10	2612 500 009	5.5	0.000 000	0.002
	100 %	+30	2612 500 004	0.8	0.000 000	0.000
	100 %	+40	2612 500 006	3.3	0.000 000	0.001
	100 %	+50	2612 500 002	-0.9	0.000 000	0.000
	Batt. Endpoint	+20	2612 500 006	2.6	0.000 000	0.001

- ▣ 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
2580.000	100 %	+20(Ref)	2579 999 995	0.0	0.000 000	0.000
	100 %	-30	2579 999 982	-13.1	-0.000 001	-0.005
	100 %	-20	2579 999 985	-10.2	0.000 000	-0.004
	100 %	-10	2579 999 990	-5.6	0.000 000	-0.002
	100 %	0	2579 999 989	-6.8	0.000 000	-0.003
	100 %	+10	2579 999 986	-9.0	0.000 000	-0.003
	100 %	+30	2579 999 987	-8.5	0.000 000	-0.003
	100 %	+40	2579 999 990	-5.8	0.000 000	-0.002
	100 %	+50	2579 999 989	-6.2	0.000 000	-0.002
	Batt. Endpoint	+20	2579 999 993	-2.7	0.000 000	-0.001
2610.000	100 %	+20(Ref)	2609 999 987	0.0	0.000 000	0.000
	100 %	-30	2609 999 978	-8.8	0.000 000	-0.003
	100 %	-20	2609 999 981	-5.9	0.000 000	-0.002
	100 %	-10	2609 999 977	-9.9	0.000 000	-0.004
	100 %	0	2609 999 981	-5.5	0.000 000	-0.002
	100 %	+10	2609 999 970	-16.4	-0.000 001	-0.006
	100 %	+30	2609 999 981	-6.0	0.000 000	-0.002
	100 %	+40	2609 999 977	-9.5	0.000 000	-0.004
	100 %	+50	2609 999 980	-6.6	0.000 000	-0.003
	Batt. Endpoint	+20	2609 999 981	-6.2	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
2582.500	100 %	+20(Ref)	2582 499 997	0.0	0.000 000	0.000
	100 %	-30	2582 499 991	-6.3	0.000 000	-0.002
	100 %	-20	2582 500 000	3.2	0.000 000	0.001
	100 %	-10	2582 499 996	-0.8	0.000 000	0.000
	100 %	0	2582 499 993	-3.5	0.000 000	-0.001
	100 %	+10	2582 499 995	-2.2	0.000 000	-0.001
	100 %	+30	2582 499 990	-6.8	0.000 000	-0.003
	100 %	+40	2582 499 991	-6.4	0.000 000	-0.002
	100 %	+50	2582 499 988	-8.8	0.000 000	-0.003
	Batt. Endpoint	+20	2582 500 002	4.7	0.000 000	0.002
2607.500	100 %	+20(Ref)	2607 500 004	0.0	0.000 000	0.000
	100 %	-30	2607 500 007	2.9	0.000 000	0.001
	100 %	-20	2607 500 008	4.1	0.000 000	0.002
	100 %	-10	2607 500 001	-2.4	0.000 000	-0.001
	100 %	0	2607 500 003	-0.9	0.000 000	0.000
	100 %	+10	2607 500 004	-0.2	0.000 000	0.000
	100 %	+30	2607 500 006	2.3	0.000 000	0.001
	100 %	+40	2607 500 002	-1.7	0.000 000	-0.001
	100 %	+50	2607 500 004	-0.1	0.000 000	0.000
	Batt. Endpoint	+20	2607 500 002	-1.5	0.000 000	-0.001

- ▣ 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
2585.000	100 %	+20(Ref)	2585 000 000	0.0	0.000 000	0.000
	100 %	-30	2585 000 004	3.4	0.000 000	0.001
	100 %	-20	2585 000 001	0.9	0.000 000	0.000
	100 %	-10	2585 000 000	-0.4	0.000 000	0.000
	100 %	0	2585 000 003	2.2	0.000 000	0.001
	100 %	+10	2585 000 003	3.1	0.000 000	0.001
	100 %	+30	2585 000 003	2.9	0.000 000	0.001
	100 %	+40	2585 000 001	0.5	0.000 000	0.000
	100 %	+50	2584 999 998	-2.4	0.000 000	-0.001
	Batt. Endpoint	+20	2584 999 992	-8.5	0.000 000	-0.003
2605.000	100 %	+20(Ref)	2605 000 000	0.0	0.000 000	0.000
	100 %	-30	2605 000 000	-0.5	0.000 000	0.000
	100 %	-20	2604 999 999	-0.9	0.000 000	0.000
	100 %	-10	2604 999 997	-2.9	0.000 000	-0.001
	100 %	0	2604 999 994	-5.7	0.000 000	-0.002
	100 %	+10	2604 999 995	-5.4	0.000 000	-0.002
	100 %	+30	2604 999 998	-1.6	0.000 000	-0.001
	100 %	+40	2605 000 002	2.3	0.000 000	0.001
	100 %	+50	2604 999 997	-2.8	0.000 000	-0.001
	Batt. Endpoint	+20	2605 000 001	0.7	0.000 000	0.000

- ▣ 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
2590.000	100 %	+20(Ref)	2589 999 998	0.0	0.000 000	0.000
	100 %	-30	2589 999 999	1.3	0.000 000	0.001
	100 %	-20	2589 999 995	-2.6	0.000 000	-0.001
	100 %	-10	2589 999 996	-1.4	0.000 000	-0.001
	100 %	0	2589 999 996	-1.9	0.000 000	-0.001
	100 %	+10	2589 999 991	-6.6	0.000 000	-0.003
	100 %	+30	2589 999 996	-2.1	0.000 000	-0.001
	100 %	+40	2590 000 001	3.1	0.000 000	0.001
	100 %	+50	2589 999 997	-0.9	0.000 000	0.000
	Batt. Endpoint	+20	2589 999 997	-1.2	0.000 000	0.000
2600.000	100 %	+20(Ref)	2599 999 996	0.0	0.000 000	0.000
	100 %	-30	2599 999 999	3.0	0.000 000	0.001
	100 %	-20	2599 999 997	1.5	0.000 000	0.001
	100 %	-10	2599 999 999	2.9	0.000 000	0.001
	100 %	0	2599 999 993	-2.6	0.000 000	-0.001
	100 %	+10	2599 999 998	2.3	0.000 000	0.001
	100 %	+30	2599 999 997	1.2	0.000 000	0.000
	100 %	+40	2599 999 999	2.7	0.000 000	0.001
	100 %	+50	2599 999 995	-1.2	0.000 000	0.000
	Batt. Endpoint	+20	2600 000 003	6.9	0.000 000	0.003

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
2575.000	Sub6 38/ 10 MHz [30 kHz]	PI/2 BPSK	-22.59	13.78	10.20	2.58	H	< 2.00	0.138	21.40	1	1
		QPSK	-22.64	13.73	10.20	2.58	H		0.136	21.35		
		16-QAM	-23.58	12.79	10.20	2.58	H		0.110	20.41		
		64-QAM	-25.09	11.28	10.20	2.58	H		0.078	18.90		
		256-QAM	-27.36	9.01	10.20	2.58	H		0.046	16.63		
2595.000		PI/2 BPSK	-22.90	13.40	10.05	2.50	H		0.124	20.95	1	1
		QPSK	-22.90	13.40	10.05	2.50	H		0.124	20.95		
		16-QAM	-23.93	12.37	10.05	2.50	H		0.098	19.92		
		64-QAM	-25.29	11.01	10.05	2.50	H		0.072	18.56		
		256-QAM	-27.50	8.80	10.05	2.50	H		0.043	16.35		
2615.000	PI/2 BPSK	-23.10	13.80	9.90	2.55	H	0.130	21.16	1	1		
	QPSK	-23.24	13.66	9.90	2.55	H	0.126	21.02				
	16-QAM	-24.20	12.70	9.90	2.55	H	0.101	20.06				
	64-QAM	-25.74	11.16	9.90	2.55	H	0.071	18.52				
	256-QAM	-27.96	8.94	9.90	2.55	H	0.043	16.30				

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP		RB	
									W	dBm	Size	Offset
2577.500	Sub6 38/ 15 MHz [30 kHz]	PI/2 BPSK	-22.54	13.66	10.20	2.56	H	< 2.00	0.135	21.30	1	1
		QPSK	-22.56	13.64	10.20	2.56	H		0.134	21.28		
		16-QAM	-23.59	12.61	10.20	2.56	H		0.106	20.25		
		64-QAM	-25.12	11.08	10.20	2.56	H		0.074	18.72		
		256-QAM	-27.24	8.96	10.20	2.56	H		0.046	16.60		
2595.000		PI/2 BPSK	-22.66	13.64	10.05	2.50	H		0.132	21.19	1	1
		QPSK	-22.67	13.63	10.05	2.50	H		0.131	21.18		
		16-QAM	-23.69	12.61	10.05	2.50	H		0.104	20.16		
		64-QAM	-25.16	11.14	10.05	2.50	H		0.074	18.69		
		256-QAM	-27.32	8.98	10.05	2.50	H		0.045	16.53		
2612.500		PI/2 BPSK	-22.64	14.40	9.90	2.51	H		0.151	21.79	1	1
		QPSK	-22.98	14.06	9.90	2.51	H		0.140	21.45		
		16-QAM	-23.97	13.07	9.90	2.51	H		0.111	20.46		
		64-QAM	-25.48	11.56	9.90	2.51	H		0.079	18.95		
		256-QAM	-27.66	9.38	9.90	2.51	H		0.048	16.77		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP		RB	
									W	dBm	Size	Offset
2580.000	Sub6 38/ 20 MHz [30 kHz]	PI/2 BPSK	-22.66	13.54	10.20	2.56	H	< 2.00	0.131	21.18	1	1
		QPSK	-22.67	13.53	10.20	2.56	H		0.131	21.17		
		16-QAM	-23.63	12.57	10.20	2.56	H		0.105	20.21		
		64-QAM	-25.21	10.99	10.20	2.56	H		0.073	18.63		
		256-QAM	-27.27	8.93	10.20	2.56	H		0.045	16.57		
2595.000		PI/2 BPSK	-22.45	13.85	10.05	2.50	H		0.138	21.40	1	1
		QPSK	-22.47	13.83	10.05	2.50	H		0.137	21.38		
		16-QAM	-23.75	12.55	10.05	2.50	H		0.102	20.10		
		64-QAM	-25.06	11.24	10.05	2.50	H		0.076	18.79		
		256-QAM	-27.29	9.01	10.05	2.50	H		0.045	16.56		
2610.000		PI/2 BPSK	-22.91	14.13	9.90	2.51	H		0.142	21.52	1	1
		QPSK	-23.03	14.01	9.90	2.51	H		0.138	21.40		
		16-QAM	-23.95	13.09	9.90	2.51	H		0.112	20.48		
		64-QAM	-25.52	11.52	9.90	2.51	H		0.078	18.91		
		256-QAM	-27.71	9.33	9.90	2.51	H		0.047	16.72		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W	dBm	Size
2582.500	Sub6 38/ 25 MHz [30 kHz]	PI/2 BPSK	-22.42	13.78	10.20	2.56	H	< 2.00	0.139	21.42	1	1
		QPSK	-22.43	13.77	10.20	2.56	H		0.138	21.41		
		16-QAM	-23.43	12.77	10.20	2.56	H		0.110	20.41		
		64-QAM	-24.82	11.38	10.20	2.56	H		0.080	19.02		
		256-QAM	-27.03	9.17	10.20	2.56	H		0.048	16.81		
2595.000		PI/2 BPSK	-22.56	13.74	10.05	2.50	H		0.135	21.29	1	1
		QPSK	-22.58	13.72	10.05	2.50	H		0.134	21.27		
		16-QAM	-23.75	12.55	10.05	2.50	H		0.102	20.10		
		64-QAM	-25.08	11.22	10.05	2.50	H		0.075	18.77		
		256-QAM	-27.26	9.04	10.05	2.50	H		0.046	16.59		
2607.500	PI/2 BPSK	-22.55	14.49	9.90	2.51	H	0.154	21.88	1	1		
	QPSK	-22.58	14.46	9.90	2.51	H	0.153	21.85				
	16-QAM	-23.46	13.58	9.90	2.51	H	0.125	20.97				
	64-QAM	-25.04	12.00	9.90	2.51	H	0.087	19.39				
	256-QAM	-27.21	9.83	9.90	2.51	H	0.053	17.22				

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain(dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W	dBm	Size
2585.000	Sub6 38/ 30 MHz [30 kHz]	PI/2 BPSK	-22.38	13.82	10.20	2.54	H	< 2.00	0.141	21.48	1	1
		QPSK	-22.39	13.81	10.20	2.54	H		0.140	21.47		
		16-QAM	-23.50	12.70	10.20	2.54	H		0.109	20.36		
		64-QAM	-24.83	11.37	10.20	2.54	H		0.080	19.03		
		256-QAM	-27.09	9.11	10.20	2.54	H		0.048	16.77		
2595.000		PI/2 BPSK	-22.40	13.90	10.05	2.50	H		0.140	21.45	1	1
		QPSK	-22.48	13.82	10.05	2.50	H		0.137	21.37		
		16-QAM	-23.45	12.85	10.05	2.50	H		0.110	20.40		
		64-QAM	-24.93	11.37	10.05	2.50	H		0.078	18.92		
		256-QAM	-27.09	9.21	10.05	2.50	H		0.047	16.76		
2605.000	PI/2 BPSK	-22.55	14.17	9.90	2.50	H	0.144	21.58	1	1		
	QPSK	-22.60	14.12	9.90	2.50	H	0.142	21.53				
	16-QAM	-23.58	13.14	9.90	2.50	H	0.114	20.55				
	64-QAM	-25.08	11.64	9.90	2.50	H	0.080	19.05				
	256-QAM	-27.19	9.53	9.90	2.50	H	0.049	16.94				

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
2590.000	Sub6 38/ 40 MHz [30 kHz]	PI/2 BPSK	-22.46	13.73	10.20	2.52	H	< 2.00	0.138	21.41	1	1
		QPSK	-22.47	13.72	10.20	2.52	H		0.138	21.40		
		16-QAM	-23.46	12.73	10.20	2.52	H		0.110	20.41		
		64-QAM	-24.91	11.28	10.20	2.52	H		0.079	18.96		
		256-QAM	-27.11	9.08	10.20	2.52	H		0.047	16.76		
2595.000		PI/2 BPSK	-22.65	13.65	10.05	2.50	H		0.132	21.20	1	53
		QPSK	-22.67	13.63	10.05	2.50	H		0.131	21.18		
		16-QAM	-23.76	12.54	10.05	2.50	H		0.102	20.09		
		64-QAM	-25.15	11.15	10.05	2.50	H		0.074	18.70		
		256-QAM	-27.34	8.96	10.05	2.50	H		0.045	16.51		
2600.000	PI/2 BPSK	-22.41	14.00	9.90	2.48	H	0.139	21.42	1	1		
	QPSK	-22.42	13.99	9.90	2.48	H	0.138	21.41				
	16-QAM	-23.44	12.97	9.90	2.48	H	0.109	20.39				
	64-QAM	-24.97	11.44	9.90	2.48	H	0.077	18.86				
	256-QAM	-27.16	9.25	9.90	2.48	H	0.046	16.67				

9.2 RADIATED SPURIOUS EMISSIONS

- NR Band: N38
- Bandwidth: 10 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
515000 (2575.000)	5 150.00	-61.63	11.00	-63.89	3.64	V	-56.53	-25.00	1	1
	7 725.00	-63.58	11.00	-56.46	4.54	V	-50.00	-25.00		
	10 300.00	-64.46	11.10	-54.14	5.35	V	-48.39	-25.00		
	12 875.00	-62.73	11.90	-51.99	6.13	V	-46.22	-25.00		
	15 450.00	-60.24	15.40	-55.03	6.75	V	-46.38	-25.00		
519000 (2595.000)	5 190.00	-61.67	11.00	-63.47	3.70	V	-56.17	-25.00	1	1
	7 785.00	-64.32	10.90	-57.01	4.61	H	-50.72	-25.00		
	10 380.00	-64.21	11.20	-53.78	5.40	H	-47.98	-25.00		
	12 975.00	-62.34	12.00	-52.37	6.13	H	-46.49	-25.00		
	15 570.00	-60.50	15.40	-55.10	6.78	V	-46.48	-25.00		
523000 (2615.000)	5 230.00	-59.79	11.10	-61.73	3.72	V	-54.35	-25.00	1	1
	7 845.00	-63.69	10.65	-56.53	4.59	H	-50.47	-25.00		
	10 460.00	-59.75	11.30	-49.84	5.42	V	-43.96	-25.00		
	13 075.00	-63.01	12.10	-53.01	6.16	H	-47.07	-25.00		
	15 690.00	-62.68	15.20	-56.40	6.80	H	-48.00	-25.00		

- NR Band: N38
- Bandwidth: 15 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
515500 (2577.500)	5 155.00	-59.96	11.00	-62.12	3.67	V	-54.78	-25.00	1	1
	7 732.50	-63.15	11.00	-56.18	4.53	V	-49.71	-25.00		
	10 310.00	-63.17	11.10	-52.34	5.35	V	-46.59	-25.00		
	12 887.50	-63.23	11.90	-52.87	6.16	V	-47.13	-25.00		
	15 465.00	-60.27	15.40	-55.53	6.75	V	-46.88	-25.00		
519000 (2595.000)	5 190.00	-61.23	11.00	-63.03	3.70	V	-55.73	-25.00	1	1
	7 785.00	-64.66	10.90	-57.35	4.61	V	-51.06	-25.00		
	10 380.00	-64.45	11.20	-54.02	5.40	V	-48.22	-25.00		
	12 975.00	-64.01	12.00	-54.04	6.13	V	-48.16	-25.00		
	15 570.00	-60.62	15.40	-55.22	6.78	V	-46.60	-25.00		
522500 (2612.500)	5 225.00	-60.67	11.10	-62.68	3.72	V	-55.29	-25.00	1	1
	7 837.50	-63.64	10.70	-56.39	4.59	V	-50.28	-25.00		
	10 450.00	-63.51	11.30	-52.88	5.42	V	-47.00	-25.00		
	13 062.50	-62.11	12.10	-52.24	6.14	V	-46.28	-25.00		
	15 675.00	-62.12	15.20	-55.92	6.81	V	-47.53	-25.00		

- NR Band: N38
- Bandwidth: 20 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
516000 (2580.000)	5 160.00	-61.48	11.00	-63.53	3.69	V	-56.22	-25.00	1	1
	7 740.00	-63.19	11.00	-56.50	4.55	V	-50.05	-25.00		
	10 320.00	-64.45	11.10	-53.69	5.34	V	-47.93	-25.00		
	12 900.00	-63.88	11.90	-53.67	6.13	V	-47.90	-25.00		
	15 480.00	-59.94	15.40	-55.32	6.75	V	-46.67	-25.00		
519000 (2595.000)	5 190.00	-61.49	11.00	-63.29	3.70	V	-55.99	-25.00	1	1
	7 785.00	-64.44	10.90	-57.13	4.61	V	-50.84	-25.00		
	10 380.00	-63.89	11.20	-53.46	5.40	V	-47.66	-25.00		
	12 975.00	-63.42	12.00	-53.45	6.13	V	-47.57	-25.00		
	15 570.00	-60.44	15.40	-55.04	6.78	V	-46.42	-25.00		
522000 (2610.000)	5 220.00	-61.67	11.10	-63.75	3.71	V	-56.36	-25.00	1	1
	7 830.00	-62.90	10.70	-55.22	4.60	V	-49.12	-25.00		
	10 440.00	-63.72	11.20	-53.75	5.39	V	-47.94	-25.00		
	13 050.00	-62.16	12.10	-51.92	6.13	V	-45.95	-25.00		
	15 660.00	-60.85	15.20	-54.65	6.81	V	-46.26	-25.00		

- NR Band: N38
- Bandwidth: 25 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
516500 (2582.500)	5 165.00	-60.79	11.00	-62.64	3.71	V	-55.34	-25.00	1	1
	7 747.50	-62.78	10.90	-56.06	4.56	V	-49.72	-25.00		
	10 330.00	-64.16	11.10	-53.88	5.33	V	-48.11	-25.00		
	12 912.50	-63.45	11.90	-53.08	6.12	V	-47.30	-25.00		
	15 495.00	-61.24	15.40	-56.24	6.76	V	-47.60	-25.00		
519000 (2595.000)	5 190.00	-62.33	11.00	-64.13	3.70	V	-56.83	-25.00	1	1
	7 785.00	-62.83	10.90	-55.52	4.61	V	-49.23	-25.00		
	10 380.00	-62.45	11.20	-52.02	5.40	V	-46.22	-25.00		
	12 975.00	-63.25	12.00	-53.28	6.13	V	-47.40	-25.00		
	15 570.00	-60.41	15.40	-55.01	6.78	V	-46.39	-25.00		
523000 (2607.500)	5 215.00	-61.35	11.10	-63.63	3.71	V	-56.24	-25.00	1	1
	7 822.50	-62.99	10.70	-55.81	4.61	V	-49.72	-25.00		
	10 430.00	-64.33	11.20	-53.44	5.39	V	-47.63	-25.00		
	13 037.50	-63.24	12.00	-53.07	6.12	V	-47.19	-25.00		
	15 645.00	-61.81	15.30	-55.92	6.81	V	-47.42	-25.00		

- NR Band: N38
- Bandwidth: 30 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
517000 (2585.000)	5 170.00	-61.44	11.00	-63.09	3.72	V	-55.81	-25.00	1	1
	7 755.00	-63.73	10.90	-56.82	4.58	V	-50.50	-25.00		
	10 340.00	-62.81	11.10	-52.79	5.35	V	-47.04	-25.00		
	12 925.00	-64.67	11.90	-54.00	6.09	V	-48.19	-25.00		
	15 510.00	-60.55	15.40	-55.16	6.77	V	-46.53	-25.00		
519000 (2595.000)	5 190.00	-61.87	11.00	-63.67	3.70	V	-56.37	-25.00	1	1
	7 785.00	-63.57	10.90	-56.26	4.61	V	-49.97	-25.00		
	10 380.00	-64.08	11.20	-53.65	5.40	V	-47.85	-25.00		
	12 975.00	-62.99	12.00	-53.02	6.13	V	-47.14	-25.00		
	15 570.00	-60.96	15.40	-55.56	6.78	V	-46.94	-25.00		
521000 (2605.000)	5 210.00	-61.27	11.10	-63.75	3.70	V	-56.35	-25.00	1	1
	7 815.00	-63.47	10.70	-56.26	4.61	V	-50.17	-25.00		
	10 420.00	-63.48	11.20	-53.68	5.38	V	-47.86	-25.00		
	13 025.00	-62.78	12.00	-52.69	6.12	V	-46.81	-25.00		
	15 630.00	-61.24	15.40	-55.56	6.80	V	-46.96	-25.00		

- NR Band: N38
- Bandwidth: 40 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meters
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
518000 (2590.000)	5 180.00	-60.51	11.00	-61.71	3.71	V	-54.42	-25.00	1	1
	7 770.00	-63.56	10.90	-56.10	4.61	V	-49.81	-25.00		
	10 360.00	-63.87	11.20	-53.56	5.38	V	-47.74	-25.00		
	12 950.00	-62.26	12.00	-51.91	6.08	V	-45.99	-25.00		
	15 540.00	-59.99	15.40	-54.87	6.77	V	-46.24	-25.00		
519000 (2595.000)	5 190.00	-61.79	11.00	-63.59	3.70	V	-56.29	-25.00	1	53
	7 785.00	-63.90	10.90	-56.59	4.61	V	-50.30	-25.00		
	10 380.00	-64.16	11.20	-53.73	5.40	V	-47.93	-25.00		
	12 975.00	-62.29	12.00	-52.32	6.13	V	-46.44	-25.00		
	15 570.00	-60.60	15.40	-55.20	6.78	V	-46.58	-25.00		
520000 (2600.000)	5 200.00	-61.05	11.10	-63.01	3.68	V	-55.59	-25.00	1	1
	7 800.00	-63.63	10.70	-56.81	4.61	V	-50.72	-25.00		
	10 400.00	-64.07	11.20	-54.56	5.37	V	-48.73	-25.00		
	13 000.00	-63.78	12.00	-53.76	6.15	V	-47.91	-25.00		
	15 600.00	-61.32	15.40	-56.48	6.79	V	-47.87	-25.00		

9.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n38	10 MHz	2595.000	BPSK	24	0	3.87
			QPSK			4.45
			16-QAM			5.51
			64-QAM			5.87
			256-QAM			6.66
	15 MHz		BPSK	36		3.84
			QPSK			4.39
			16-QAM			5.32
			64-QAM			5.87
			256-QAM			6.61
	20 MHz		BPSK	50		3.80
			QPSK			4.38
			16-QAM			5.37
			64-QAM			5.80
			256-QAM			6.56
	25 MHz		BPSK	64		3.89
			QPSK			4.54
			16-QAM			5.72
			64-QAM			6.08
			256-QAM			6.60
30 MHz	BPSK	75	3.87			
	QPSK		4.38			
	16-QAM		5.33			
	64-QAM		5.93			
	256-QAM		6.55			
40 MHz	BPSK	100	3.90			
	QPSK		4.42			
	16-QAM		5.37			
	64-QAM		5.86			
	256-QAM		6.62			

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 231 ~ 260.

9.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n38	10 MHz	2595.000	BPSK	24	0	8.6498
			QPSK			8.6691
			16-QAM			8.6873
			64-QAM			8.6689
			256-QAM			8.6640
	15 MHz		BPSK	36		13.017
			QPSK			13.024
			16-QAM			12.945
			64-QAM			13.002
			256-QAM			13.005
	20 MHz		BPSK	50		17.987
			QPSK			17.984
			16-QAM			17.969
			64-QAM			17.956
			256-QAM			17.946
	25 MHz		BPSK	64		23.047
			QPSK			23.011
			16-QAM			23.084
			64-QAM			23.032
			256-QAM			23.040
30 MHz	BPSK	75	26.959			
	QPSK		26.945			
	16-QAM		26.960			
	64-QAM		26.863			
	256-QAM		27.039			
40 MHz	BPSK	100	35.902			
	QPSK		35.928			
	16-QAM		35.997			
	64-QAM		35.941			
	256-QAM		35.890			

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 201 ~ 230.

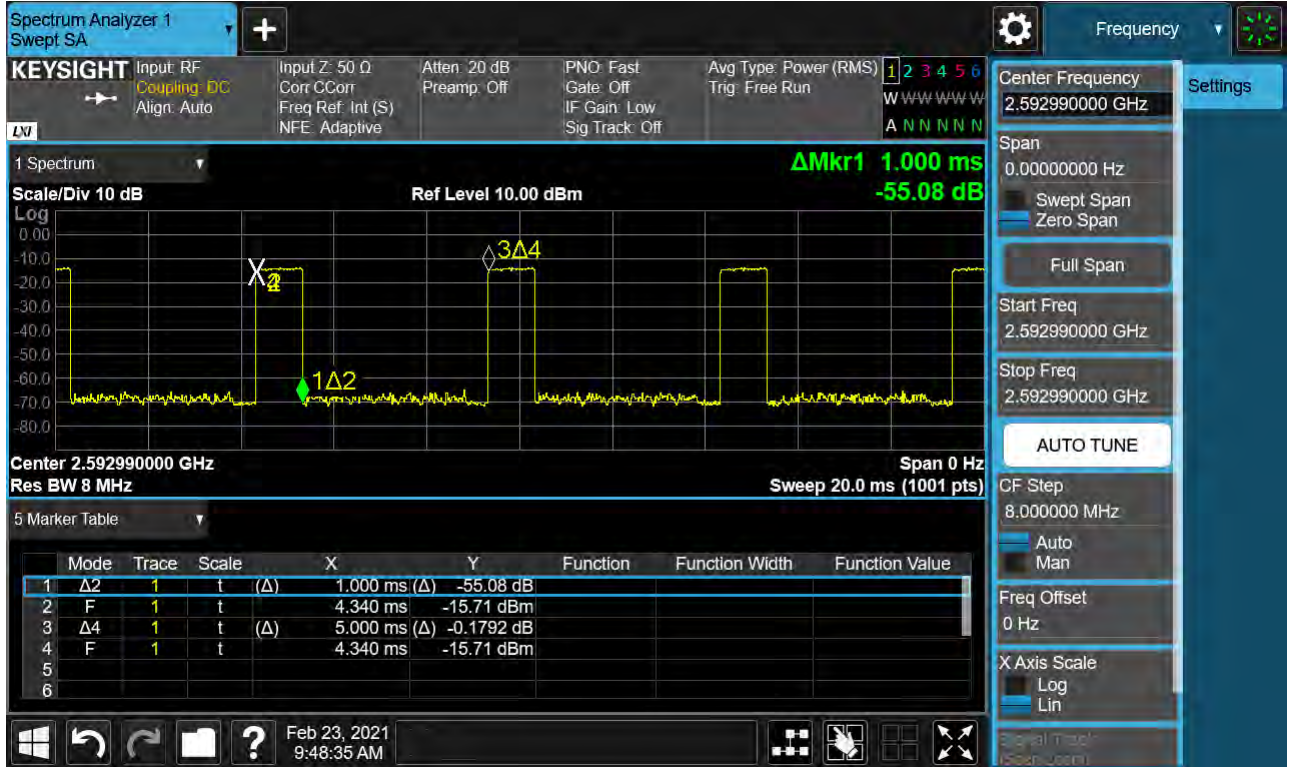
9.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n38	10	2575.000	8.2882	37.805	-70.102	-32.297	-25.00
		2595.000	9.1386	37.805	-70.836	-33.031	
		2615.000	8.8475	37.805	-70.852	-33.047	
	15	2577.500	4.9592	37.190	-70.918	-33.728	
		2595.000	4.0130	37.190	-70.991	-33.801	
		2612.500	3.8111	37.190	-70.124	-32.934	
	20	2580.000	3.7518	37.190	-70.115	-32.925	
		2595.000	4.5838	37.190	-70.964	-33.774	
		2610.000	3.8002	37.190	-70.136	-32.946	
	25	2582.500	8.3056	37.805	-70.371	-32.566	
		2595.000	4.0718	37.190	-71.447	-34.257	
		2607.500	8.2617	37.805	-71.142	-33.337	
	30	2585.000	6.0125	37.805	-70.974	-33.169	
		2595.000	7.9900	37.805	-70.393	-32.588	
		2605.000	4.0669	37.190	-69.819	-32.629	
	40	2590.000	8.2577	37.805	-71.230	-33.425	
		2595.000	5.1890	37.805	-70.681	-32.876	
		2600.000	9.3963	37.805	-71.462	-33.657	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 291 ~ 326.
2. Duty Cycle factor already applied on the factor.

- Duty Cycle Factor(dB) = 6.99



- Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter

- Result(dBm) = Reading + Factor

3. Factor(dB)

Frequency Range (GHz)	Factor [dB]
0.03 – 1	34.484
1 – 5	37.190
5 – 10	37.805
10 – 15	38.330
15 – 20	38.703
Above 20	39.345

9.6 CHANNEL EDGE

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	C.E ~ (C.E ± 1 MHz)		(C.E ± 1 MHz) ~ (C.E ± 5 MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2575.000	BPSK	Full RB	0	-23.82	-25.31	-30.22	-31.02
	2595.000	BPSK	Full RB	0	-24.25	-24.14	-31.20	-31.17
	2615.000	BPSK	Full RB	0	-23.66	-24.94	-30.25	-31.33
15 MHz	2577.500	BPSK	Full RB	0	-24.37	-36.09	-32.49	-36.72
	2595.000	BPSK	Full RB	0	-23.79	-35.67	-31.79	-39.18
	2612.500	BPSK	Full RB	0	-23.18	-34.17	-31.28	-39.02
20 MHz	2580.000	BPSK	Full RB	0	-24.95	-31.55	-31.92	-33.26
	2595.000	BPSK	Full RB	0	-23.71	-32.98	-34.24	-38.66
	2610.000	BPSK	Full RB	0	-25.61	-30.77	-32.58	-35.18
25 MHz	2582.500	BPSK	Full RB	0	-24.42	-29.49	-31.38	-33.57
	2595.000	BPSK	Full RB	0	-24.58	-32.86	-33.96	-39.28
	2607.500	BPSK	Full RB	0	-25.41	-29.20	-32.89	-32.34
30 MHz	2585.000	BPSK	Full RB	0	-28.72	-38.09	-37.41	-38.02
	2595.000	BPSK	Full RB	0	-26.60	-37.09	-35.92	-38.19
	2605.000	BPSK	Full RB	0	-26.00	-37.82	-35.02	-38.22
40 MHz	2590.000	BPSK	Full RB	0	-25.41	-32.25	-33.00	-33.37
	2595.000	BPSK	Full RB	0	-25.67	-35.70	-35.69	-36.25
	2600.000	BPSK	Full RB	0	-12.30	-50.25	-30.61	-48.45
Limit(dBm)					-10.0		-10.0	

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	(C.E ± 5 MHz) ~ (C.E ± X MHz)		Above (C.E ± X MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2575.000	BPSK	Full RB	0	-33.24	-35.50	-38.43	-37.23
	2595.000	BPSK	Full RB	0	-35.39	-37.65	-37.79	-35.10
	2615.000	BPSK	Full RB	0	-34.12	-37.07	-37.54	-37.89
15 MHz	2577.500	BPSK	Full RB	0	-37.45	-34.11	-42.16	-40.83
	2595.000	BPSK	Full RB	0	-34.14	-38.43	-44.07	-42.19
	2612.500	BPSK	Full RB	0	-32.97	-38.35	-42.74	-40.95
20 MHz	2580.000	BPSK	Full RB	0	-34.57	-33.31	-41.45	-38.52
	2595.000	BPSK	Full RB	0	-36.77	-38.35	-41.67	-39.98
	2610.000	BPSK	Full RB	0	-34.32	-38.49	-40.47	-40.93
25 MHz	2582.500	BPSK	Full RB	0	-34.30	-34.48	-39.19	-41.84
	2595.000	BPSK	Full RB	0	-35.33	-38.22	-41.89	-42.28
	2607.500	BPSK	Full RB	0	-34.99	-36.33	-40.93	-41.70
30 MHz	2585.000	BPSK	Full RB	0	-36.63	-37.32	-41.36	-44.33
	2595.000	BPSK	Full RB	0	-34.75	-34.44	-43.11	-40.60
	2605.000	BPSK	Full RB	0	-33.55	-37.49	-41.51	-43.23
40 MHz	2590.000	BPSK	Full RB	0	-34.75	-34.37	-42.19	-40.04
	2595.000	BPSK	Full RB	0	-34.00	-35.09	-43.03	-41.83
	2600.000	BPSK	Full RB	0	-47.34	-47.66	-48.06	-47.66
Limit(dBm)					-13.0		-25.0	

Note:

1. C.E = Channel Edge
2. X = X is the greater of 6 MHz or the actual emission bandwidth
3. Duty Cycle factor already applied on the factor.
 - Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter
 - Result(dBm) = Reading + Factor
 - Duty Cycle Factor(dB) = 6.99
4. Plots of the EUT's Channel Edge are shown Page 261 ~ 290. (1RB & Full RB)

9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ 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
2575.000	100 %	+20(Ref)	2574 999 999	0.0	0.000 000	0.000
	100 %	-30	2575 000 000	0.4	0.000 000	0.000
	100 %	-20	2574 999 993	-6.7	0.000 000	-0.003
	100 %	-10	2574 999 997	-2.0	0.000 000	-0.001
	100 %	0	2574 999 991	-8.0	0.000 000	-0.003
	100 %	+10	2575 000 000	0.7	0.000 000	0.000
	100 %	+30	2574 999 997	-2.4	0.000 000	-0.001
	100 %	+40	2575 000 003	3.8	0.000 000	0.001
	100 %	+50	2574 999 996	-3.0	0.000 000	-0.001
	Batt. Endpoint	+20	2574 999 996	-2.8	0.000 000	-0.001
2615.000	100 %	+20(Ref)	2615 000 006	0.0	0.000 000	0.000
	100 %	-30	2615 000 003	-2.7	0.000 000	-0.001
	100 %	-20	2615 000 003	-2.1	0.000 000	-0.001
	100 %	-10	2614 999 998	-7.1	0.000 000	-0.003
	100 %	0	2615 000 011	5.8	0.000 000	0.002
	100 %	+10	2615 000 005	-0.1	0.000 000	0.000
	100 %	+30	2615 000 005	-0.3	0.000 000	0.000
	100 %	+40	2615 000 002	-3.9	0.000 000	-0.002
	100 %	+50	2615 000 004	-1.1	0.000 000	0.000
	Batt. Endpoint	+20	2615 000 006	0.3	0.000 000	0.000

- ▣ 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
2577.500	100 %	+20(Ref)	2577 500 001	0.0	0.000 000	0.000
	100 %	-30	2577 500 001	0.4	0.000 000	0.000
	100 %	-20	2577 500 002	1.1	0.000 000	0.000
	100 %	-10	2577 500 002	0.9	0.000 000	0.000
	100 %	0	2577 499 996	-4.6	0.000 000	-0.002
	100 %	+10	2577 499 998	-3.0	0.000 000	-0.001
	100 %	+30	2577 499 999	-2.1	0.000 000	-0.001
	100 %	+40	2577 500 005	4.4	0.000 000	0.002
	100 %	+50	2577 499 999	-1.7	0.000 000	-0.001
	Batt. Endpoint	+20	2577 500 002	1.6	0.000 000	0.001
2612.500	100 %	+20(Ref)	2612 500 000	0.0	0.000 000	0.000
	100 %	-30	2612 500 000	-0.4	0.000 000	0.000
	100 %	-20	2612 499 998	-2.1	0.000 000	-0.001
	100 %	-10	2612 499 998	-1.8	0.000 000	-0.001
	100 %	0	2612 500 002	1.8	0.000 000	0.001
	100 %	+10	2612 499 999	-1.4	0.000 000	-0.001
	100 %	+30	2612 499 994	-6.0	0.000 000	-0.002
	100 %	+40	2612 499 995	-5.0	0.000 000	-0.002
	100 %	+50	2612 499 999	-1.6	0.000 000	-0.001
	Batt. Endpoint	+20	2612 500 000	-0.6	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
2580.000	100 %	+20(Ref)	2579 999 993	0.0	0.000 000	0.000
	100 %	-30	2579 999 986	-6.9	0.000 000	-0.003
	100 %	-20	2579 999 986	-6.8	0.000 000	-0.003
	100 %	-10	2579 999 987	-5.9	0.000 000	-0.002
	100 %	0	2579 999 989	-4.5	0.000 000	-0.002
	100 %	+10	2579 999 987	-5.9	0.000 000	-0.002
	100 %	+30	2579 999 984	-9.6	0.000 000	-0.004
	100 %	+40	2579 999 984	-8.9	0.000 000	-0.003
	100 %	+50	2579 999 986	-7.7	0.000 000	-0.003
	Batt. Endpoint	+20	2579 999 987	-6.6	0.000 000	-0.003
2610.000	100 %	+20(Ref)	2609 999 992	0.0	0.000 000	0.000
	100 %	-30	2609 999 980	-11.9	0.000 000	-0.005
	100 %	-20	2609 999 988	-4.1	0.000 000	-0.002
	100 %	-10	2609 999 990	-2.5	0.000 000	-0.001
	100 %	0	2609 999 983	-8.9	0.000 000	-0.003
	100 %	+10	2609 999 988	-4.2	0.000 000	-0.002
	100 %	+30	2609 999 981	-11.0	0.000 000	-0.004
	100 %	+40	2609 999 979	-13.6	-0.000 001	-0.005
	100 %	+50	2609 999 987	-5.0	0.000 000	-0.002
	Batt. Endpoint	+20	2609 999 985	-7.3	0.000 000	-0.003

- ▣ 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
2582.500	100 %	+20(Ref)	2582 500 000	0.0	0.000 000	0.000
	100 %	-30	2582 500 000	0.1	0.000 000	0.000
	100 %	-20	2582 499 996	-3.9	0.000 000	-0.002
	100 %	-10	2582 500 000	0.1	0.000 000	0.000
	100 %	0	2582 499 994	-5.8	0.000 000	-0.002
	100 %	+10	2582 500 003	2.8	0.000 000	0.001
	100 %	+30	2582 500 000	-0.2	0.000 000	0.000
	100 %	+40	2582 499 998	-1.4	0.000 000	-0.001
	100 %	+50	2582 499 998	-2.2	0.000 000	-0.001
	Batt. Endpoint	+20	2582 500 002	2.8	0.000 000	0.001
2607.500	100 %	+20(Ref)	2607 500 003	0.0	0.000 000	0.000
	100 %	-30	2607 500 002	-0.5	0.000 000	0.000
	100 %	-20	2607 500 007	4.4	0.000 000	0.002
	100 %	-10	2607 500 005	2.6	0.000 000	0.001
	100 %	0	2607 499 997	-5.8	0.000 000	-0.002
	100 %	+10	2607 500 002	-0.7	0.000 000	0.000
	100 %	+30	2607 499 999	-3.7	0.000 000	-0.001
	100 %	+40	2607 500 004	1.6	0.000 000	0.001
	100 %	+50	2607 500 008	5.5	0.000 000	0.002
	Batt. Endpoint	+20	2607 500 002	-1.1	0.000 000	0.000

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

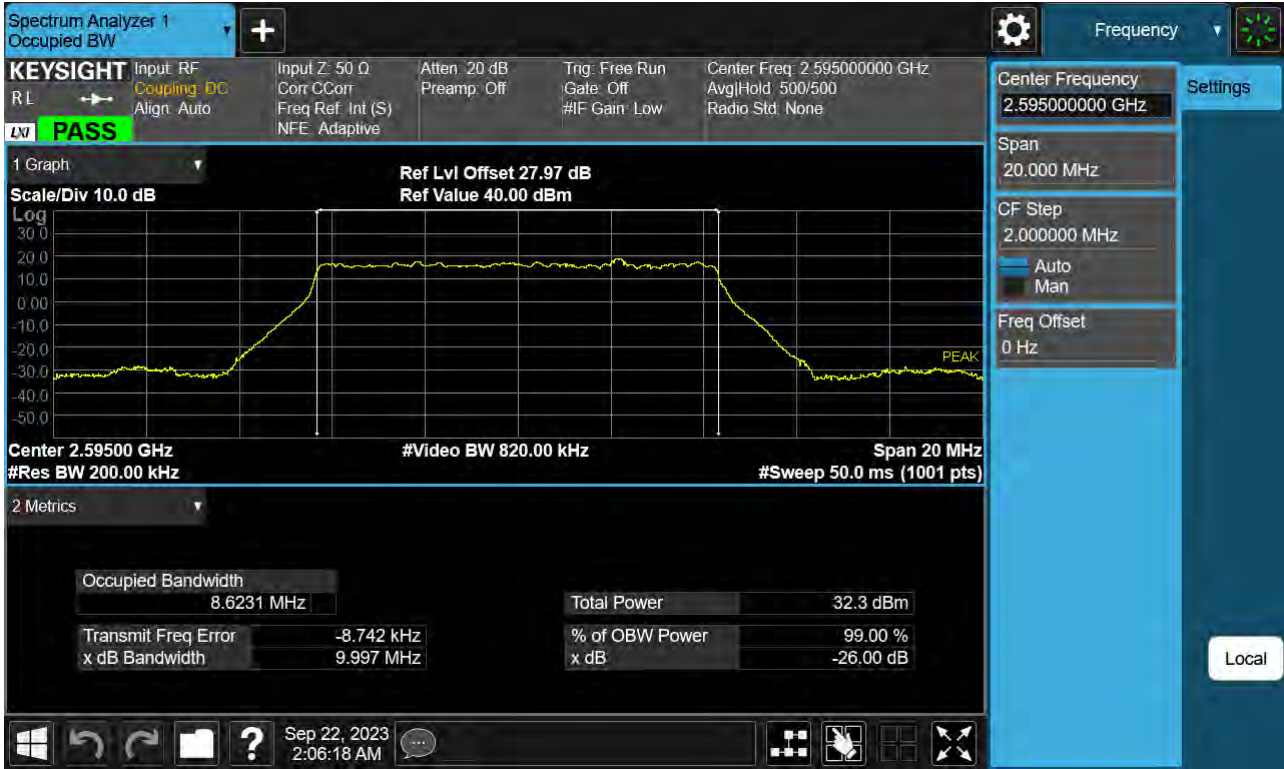
Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
2585.000	100 %	+20(Ref)	2585 000 000	0.0	0.000 000	0.000
	100 %	-30	2585 000 005	5.4	0.000 000	0.002
	100 %	-20	2584 999 997	-3.0	0.000 000	-0.001
	100 %	-10	2584 999 996	-3.5	0.000 000	-0.001
	100 %	0	2584 999 998	-1.8	0.000 000	-0.001
	100 %	+10	2585 000 000	0.0	0.000 000	0.000
	100 %	+30	2584 999 996	-4.3	0.000 000	-0.002
	100 %	+40	2585 000 004	3.8	0.000 000	0.001
	100 %	+50	2585 000 001	1.1	0.000 000	0.000
	Batt. Endpoint	+20	2585 000 001	0.9	0.000 000	0.000
2605.000	100 %	+20(Ref)	2604 999 997	0.0	0.000 000	0.000
	100 %	-30	2604 999 994	-3.2	0.000 000	-0.001
	100 %	-20	2604 999 998	0.6	0.000 000	0.000
	100 %	-10	2604 999 994	-3.1	0.000 000	-0.001
	100 %	0	2604 999 996	-0.6	0.000 000	0.000
	100 %	+10	2604 999 994	-2.6	0.000 000	-0.001
	100 %	+30	2605 000 001	3.9	0.000 000	0.001
	100 %	+40	2604 999 995	-2.3	0.000 000	-0.001
	100 %	+50	2604 999 994	-3.2	0.000 000	-0.001
	Batt. Endpoint	+20	2604 999 997	0.2	0.000 000	0.000

- ▣ 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
2590.000	100 %	+20(Ref)	2589 999 999	0.0	0.000 000	0.000
	100 %	-30	2589 999 997	-1.7	0.000 000	-0.001
	100 %	-20	2589 999 997	-1.5	0.000 000	-0.001
	100 %	-10	2589 999 999	0.2	0.000 000	0.000
	100 %	0	2589 999 996	-2.6	0.000 000	-0.001
	100 %	+10	2589 999 996	-3.1	0.000 000	-0.001
	100 %	+30	2589 999 998	-0.6	0.000 000	0.000
	100 %	+40	2589 999 995	-3.6	0.000 000	-0.001
	100 %	+50	2589 999 995	-4.5	0.000 000	-0.002
	Batt. Endpoint	+20	2589 999 999	0.0	0.000 000	0.000
2600.000	100 %	+20(Ref)	2600 000 005	0.0	0.000 000	0.000
	100 %	-30	2600 000 000	-5.3	0.000 000	-0.002
	100 %	-20	2600 000 005	-0.5	0.000 000	0.000
	100 %	-10	2600 000 005	-0.1	0.000 000	0.000
	100 %	0	2600 000 006	1.0	0.000 000	0.000
	100 %	+10	2600 000 002	-3.5	0.000 000	-0.001
	100 %	+30	2600 000 004	-1.2	0.000 000	0.000
	100 %	+40	2600 000 008	2.7	0.000 000	0.001
	100 %	+50	2600 000 005	-0.4	0.000 000	0.000
	Batt. Endpoint	+20	2600 000 005	0.2	0.000 000	0.000

10. TEST PLOTS(Ant B)

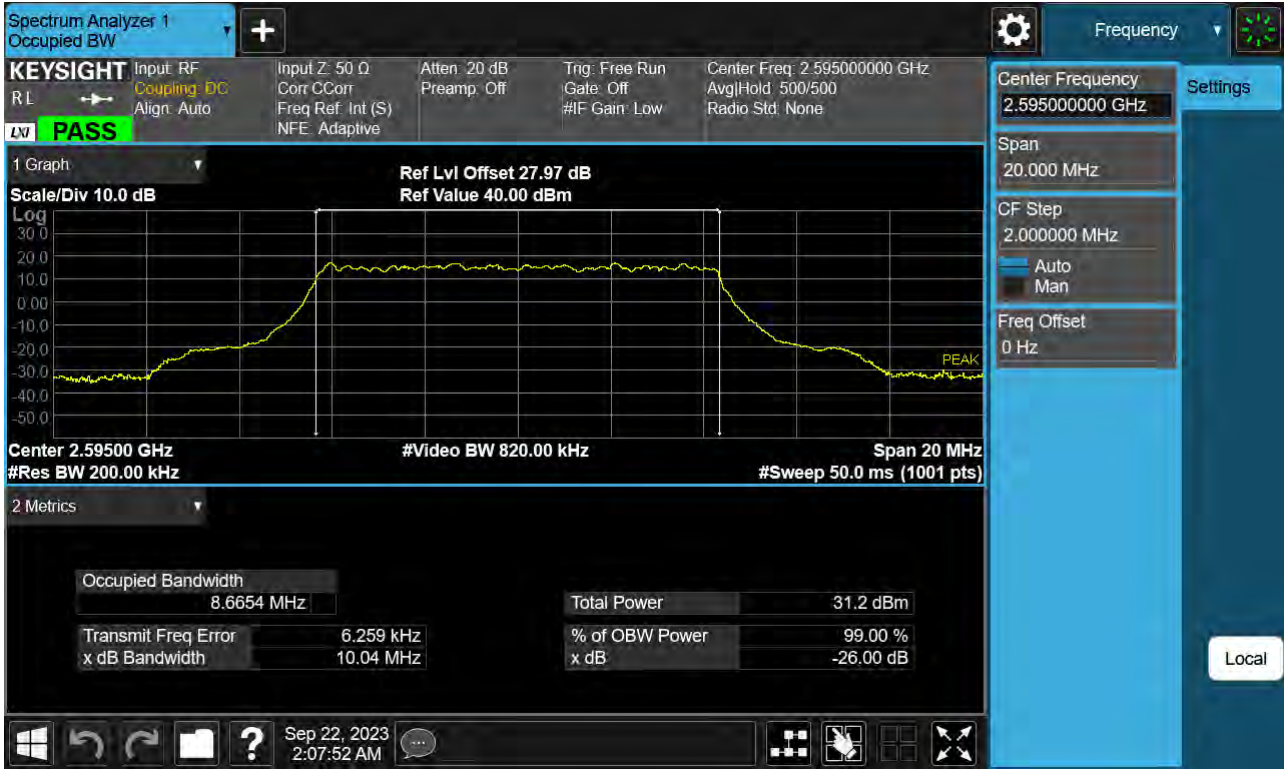
Sub6 n38. Occupied Bandwidth Plot (10 MHz Ch.519000 BPSK)



Sub6 n38. Occupied Bandwidth Plot (10 MHz Ch.519000 QPSK)



Sub6 n38. Occupied Bandwidth Plot (10 MHz Ch.519000 16-QAM)



Sub6 n38. Occupied Bandwidth Plot (10 MHz Ch.519000 64-QAM)



Sub6 n38. Occupied Bandwidth Plot (10 MHz Ch.519000 256-QAM)



Sub6 n38. Occupied Bandwidth Plot (15 MHz Ch.519000 BPSK)



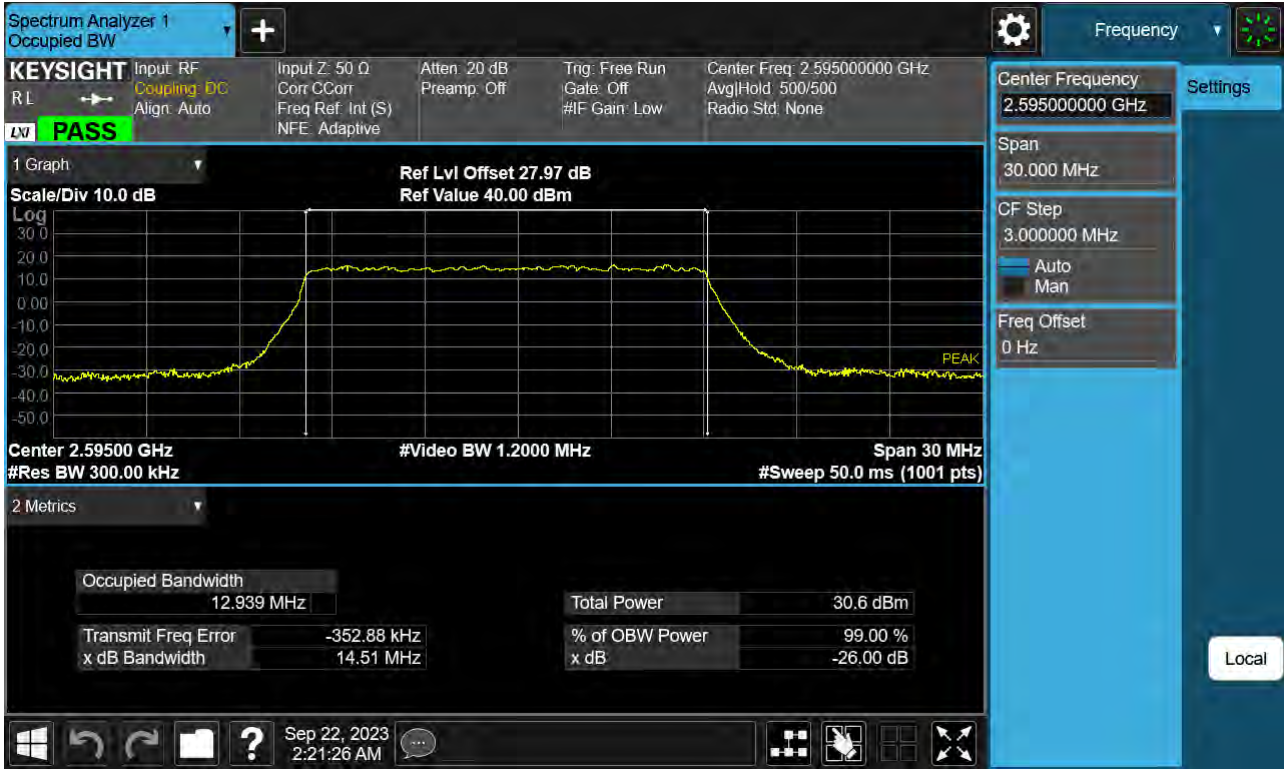
Sub6 n38. Occupied Bandwidth Plot (15 MHz Ch.519000 QPSK)



Sub6 n38. Occupied Bandwidth Plot (15 MHz Ch.519000 16-QAM)



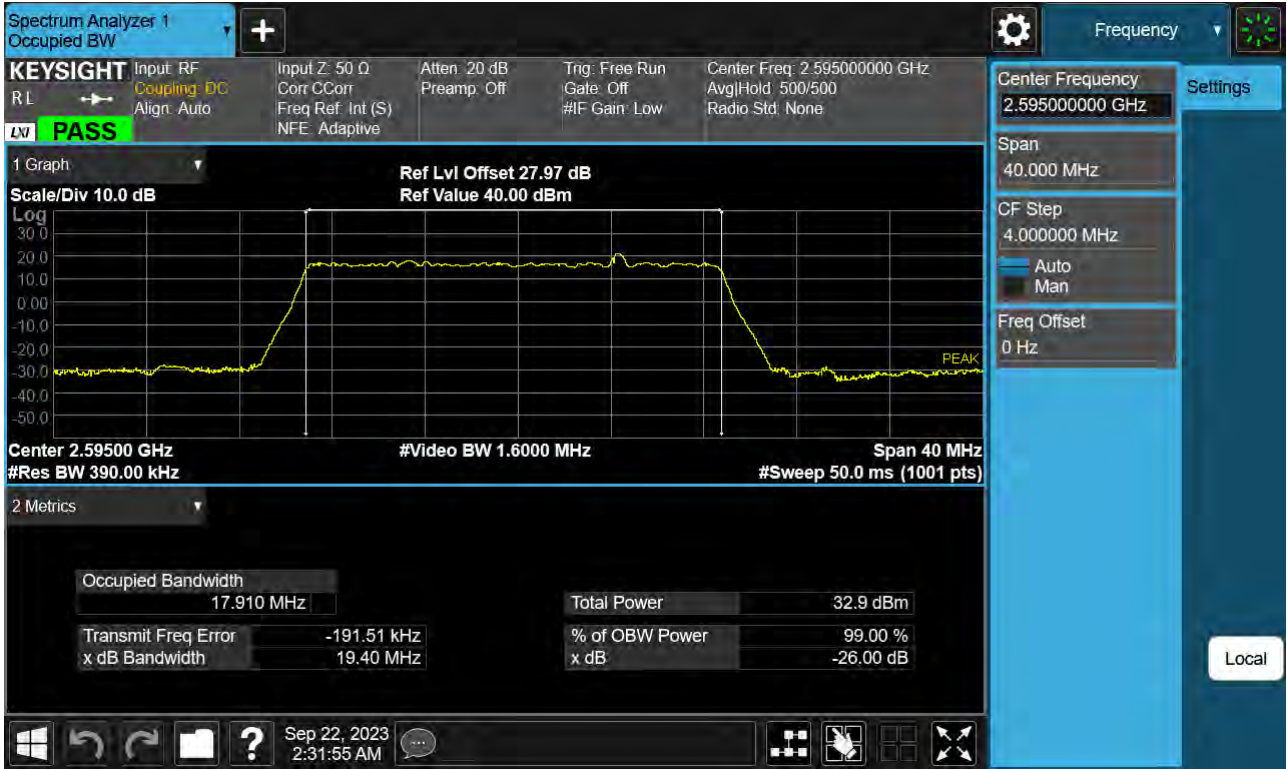
Sub6 n38. Occupied Bandwidth Plot (15 MHz Ch.519000 64-QAM)



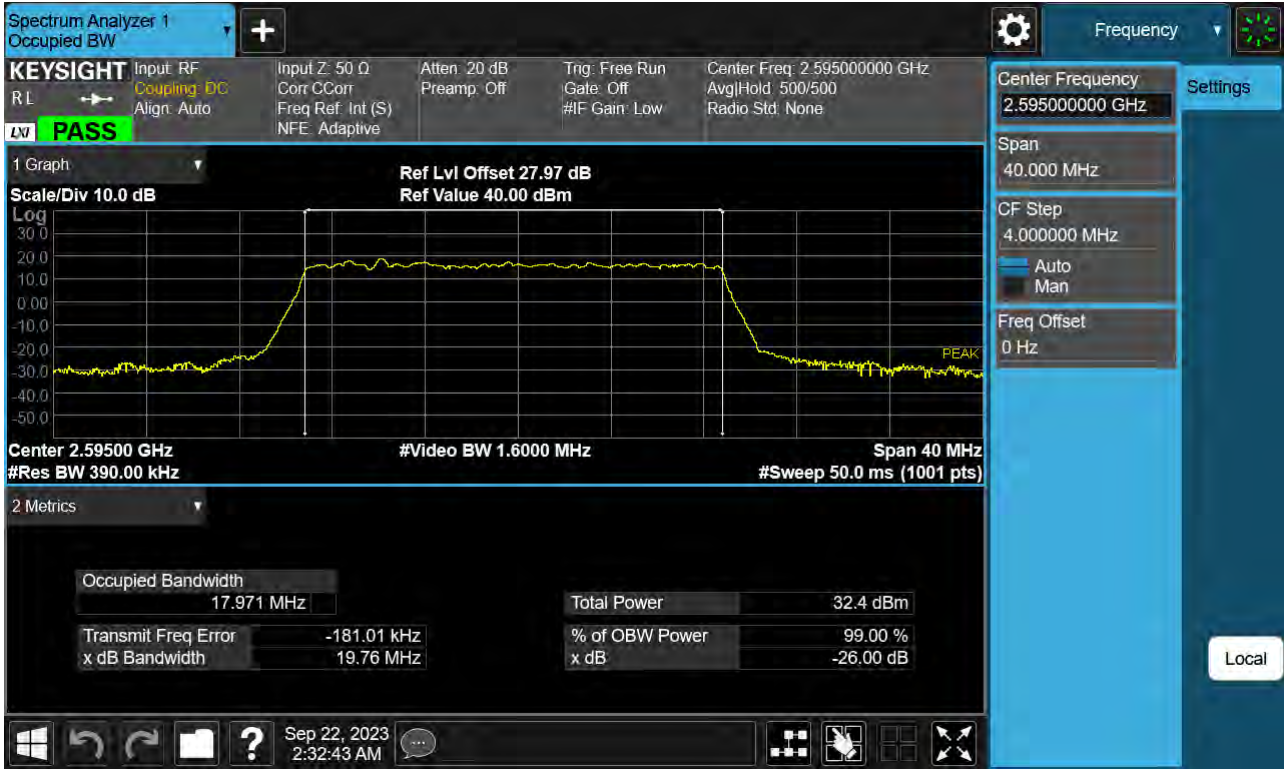
Sub6 n38. Occupied Bandwidth Plot (15 MHz Ch.519000 256-QAM)



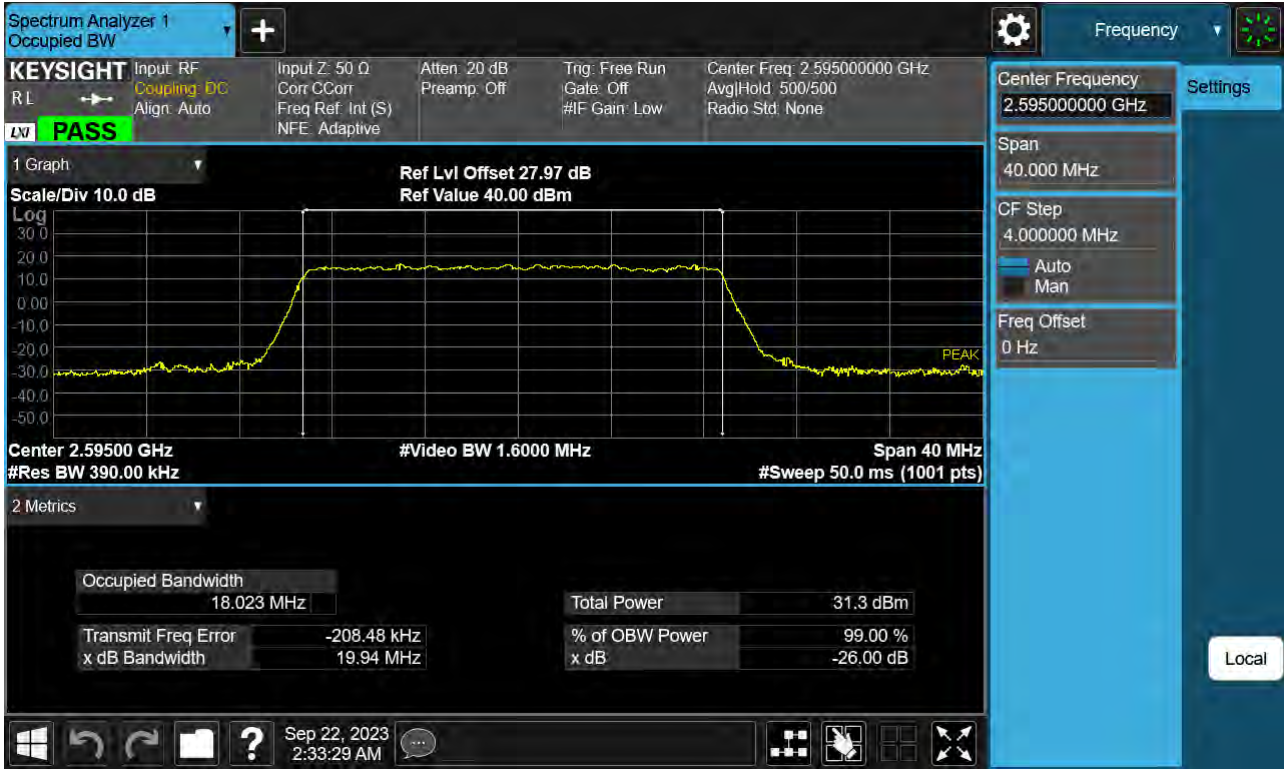
Sub6 n38. Occupied Bandwidth Plot (20 MHz Ch.519000 BPSK)



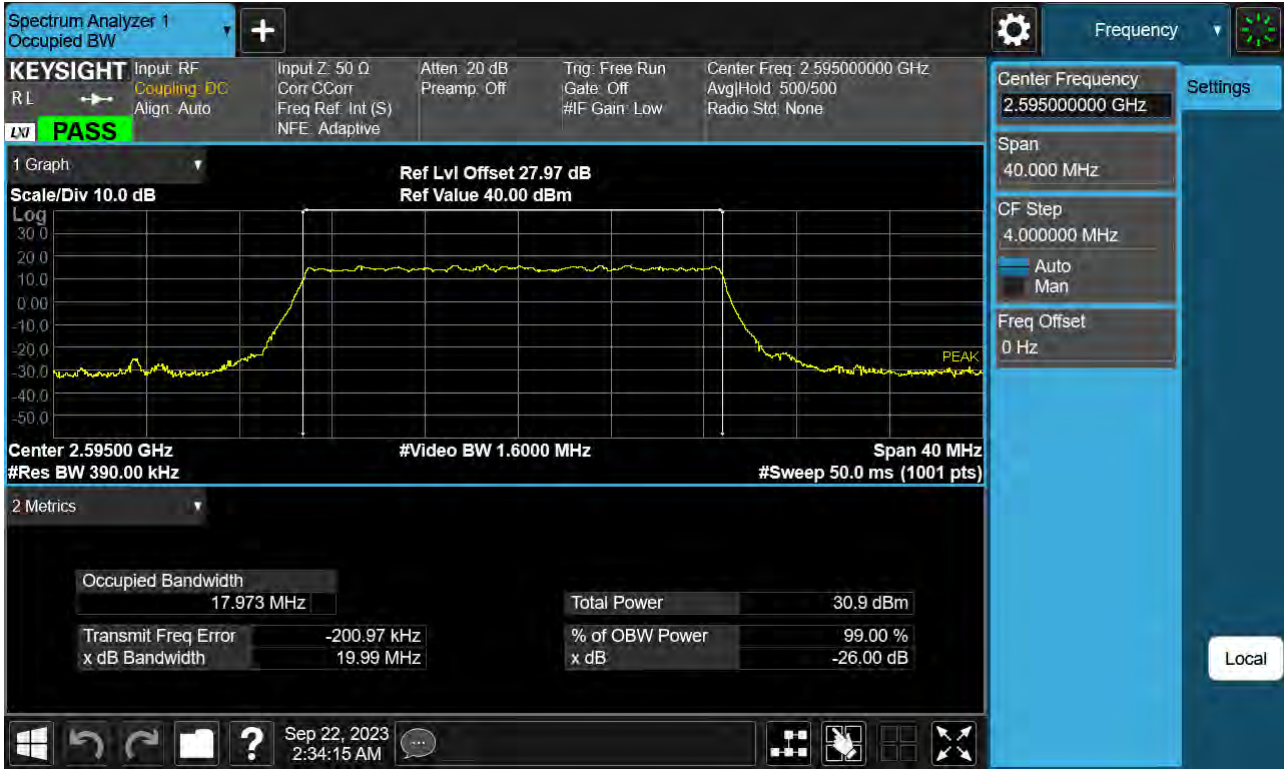
Sub6 n38. Occupied Bandwidth Plot (20 MHz Ch.519000 QPSK)



Sub6 n38. Occupied Bandwidth Plot (20 MHz Ch.519000 16-QAM)



Sub6 n38. Occupied Bandwidth Plot (20 MHz Ch.519000 64-QAM)



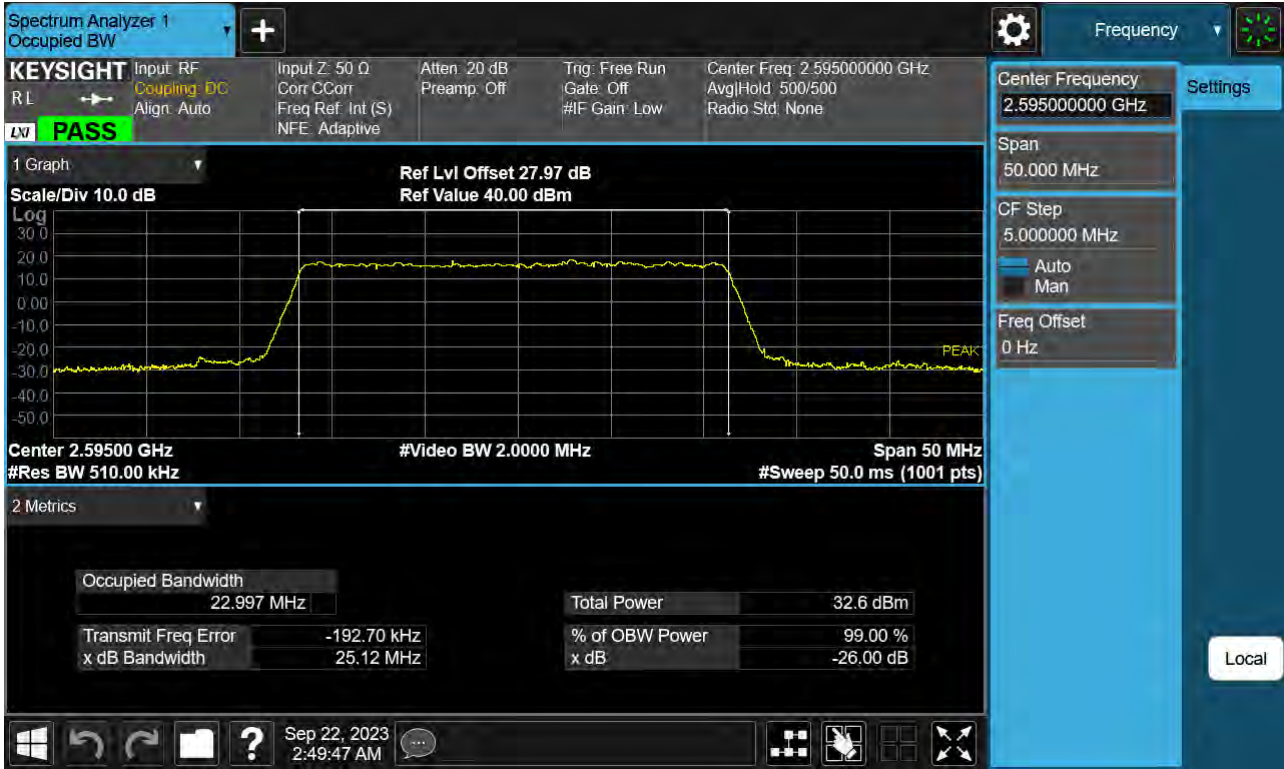
Sub6 n38. Occupied Bandwidth Plot (20 MHz Ch.519000 256-QAM)



Sub6 n38. Occupied Bandwidth Plot (25 MHz Ch.519000 BPSK)



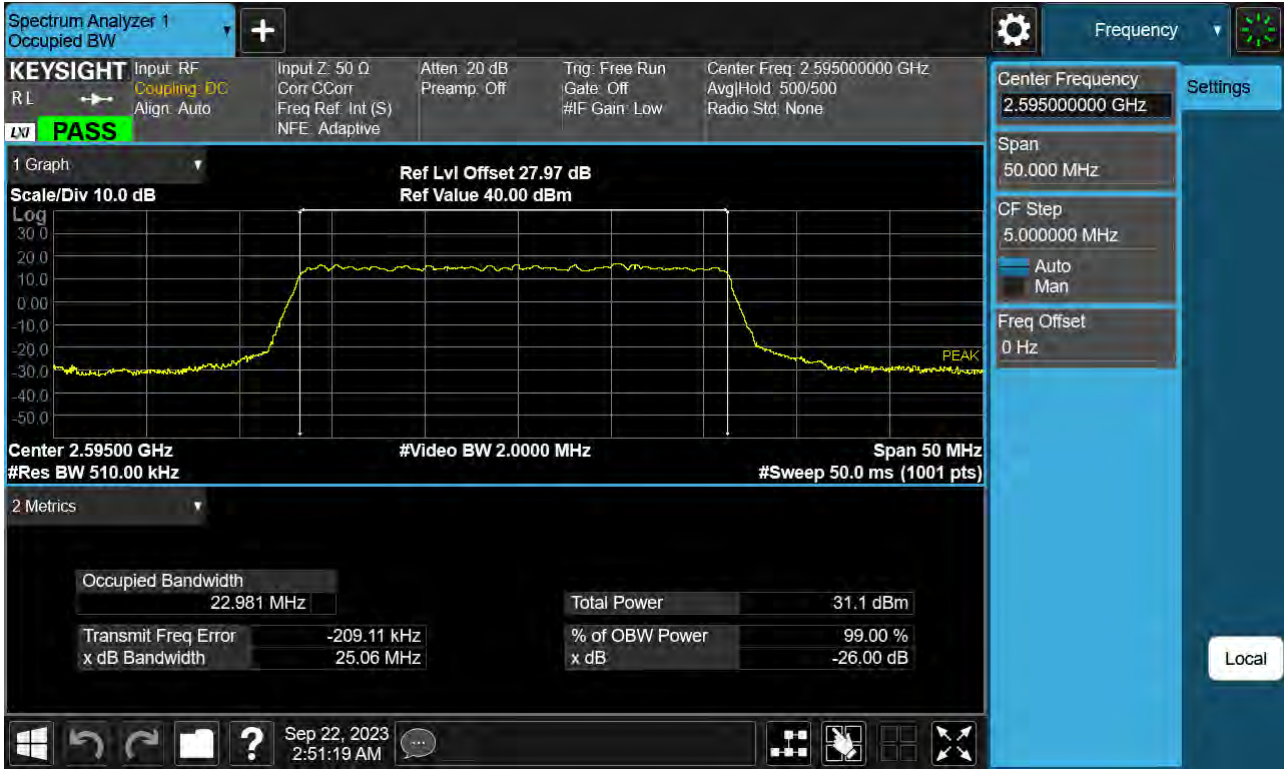
Sub6 n38. Occupied Bandwidth Plot (25 MHz Ch.519000 QPSK)



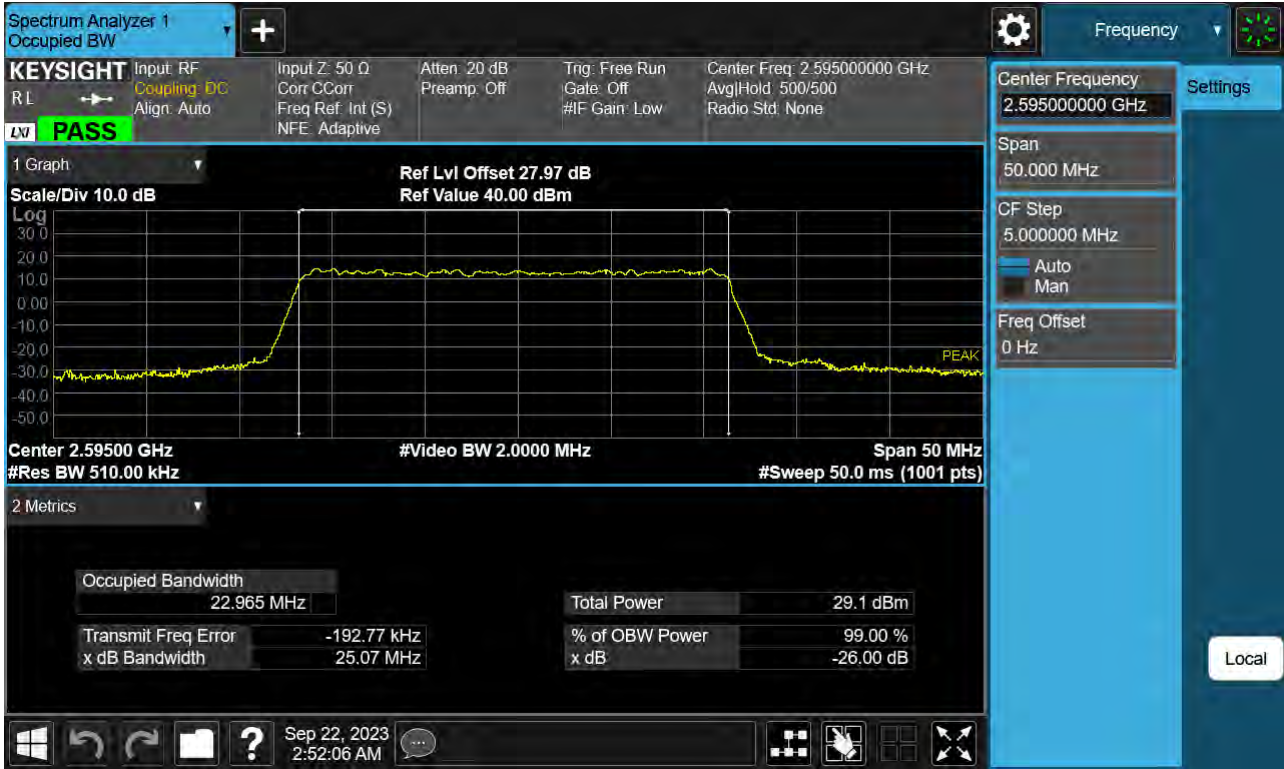
Sub6 n38. Occupied Bandwidth Plot (25 MHz Ch.519000 16-QAM)



Sub6 n38. Occupied Bandwidth Plot (25 MHz Ch.519000 64-QAM)



Sub6 n38. Occupied Bandwidth Plot (25 MHz Ch.519000 256-QAM)



Sub6 n38. Occupied Bandwidth Plot (30 MHz Ch.519000 BPSK)



Sub6 n38. Occupied Bandwidth Plot (30 MHz Ch.519000 QPSK)



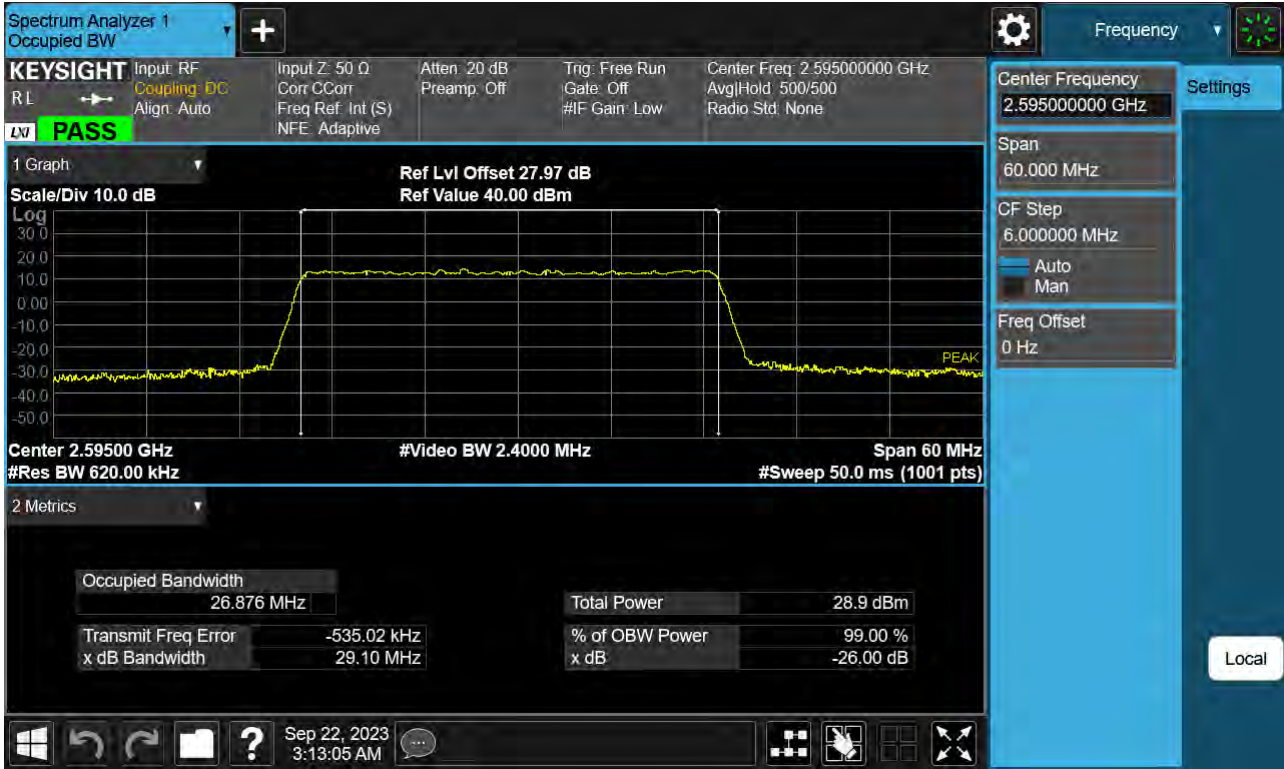
Sub6 n38. Occupied Bandwidth Plot (30 MHz Ch.519000 16-QAM)



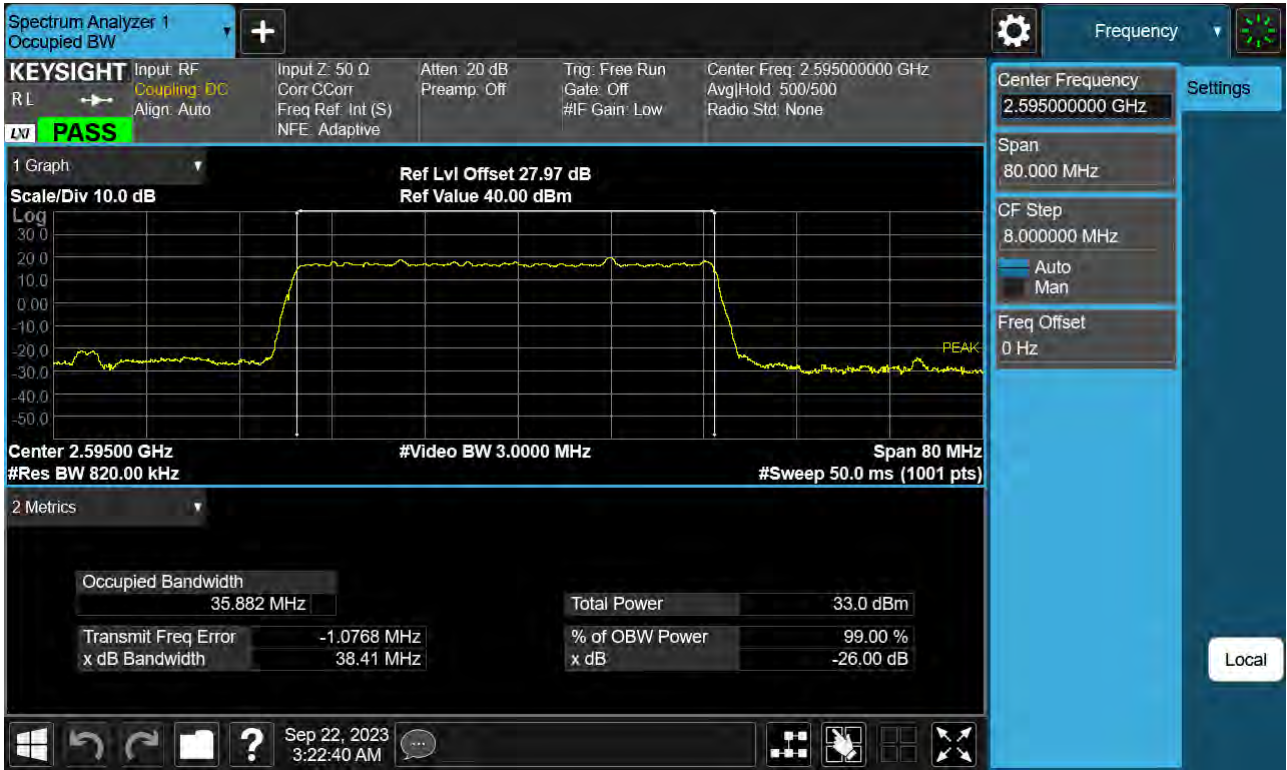
Sub6 n38. Occupied Bandwidth Plot (30 MHz Ch.519000 64-QAM)



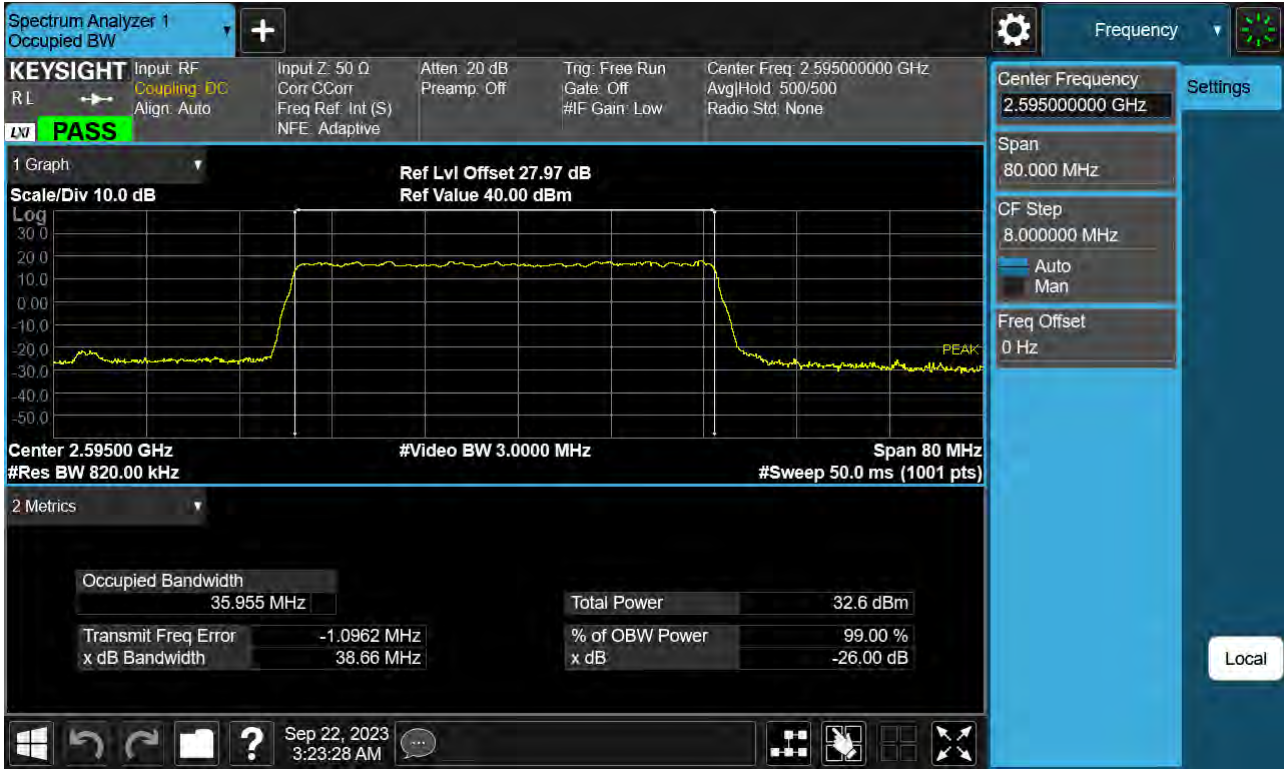
Sub6 n38. Occupied Bandwidth Plot (30 MHz Ch.519000 256-QAM)



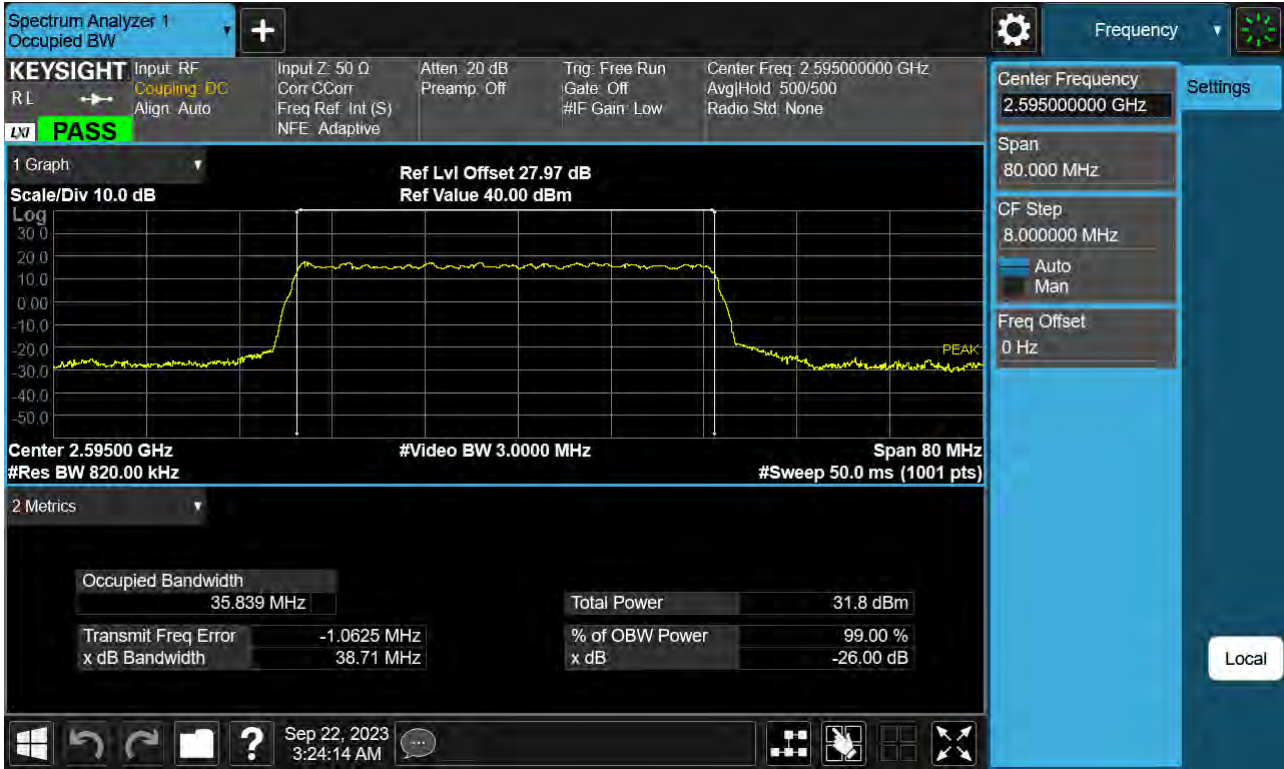
Sub6 n38. Occupied Bandwidth Plot (40 MHz Ch.519000 BPSK)



Sub6 n38. Occupied Bandwidth Plot (40 MHz Ch.519000 QPSK)



Sub6 n38. Occupied Bandwidth Plot (40 MHz Ch.519000 16-QAM)



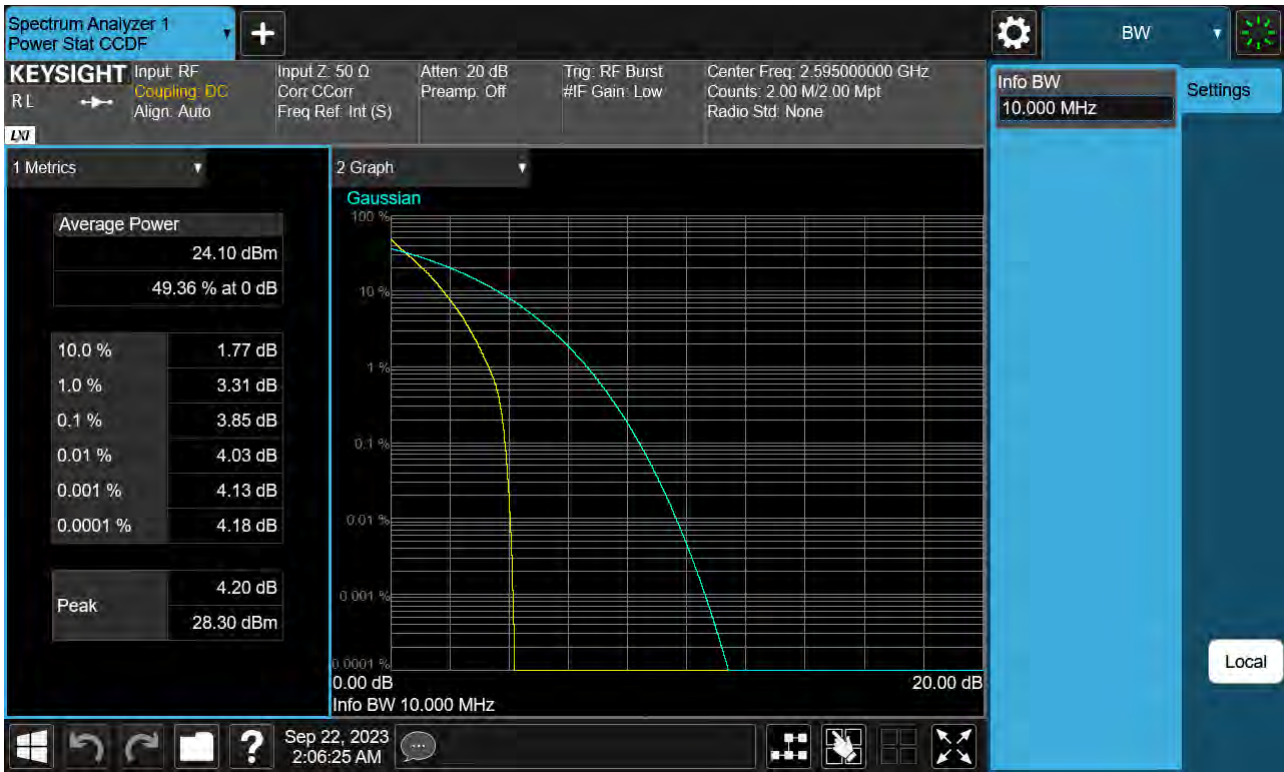
Sub6 n38. Occupied Bandwidth Plot (40 MHz Ch.519000 64-QAM)



Sub6 n38. Occupied Bandwidth Plot (40 MHz Ch.519000 256-QAM)



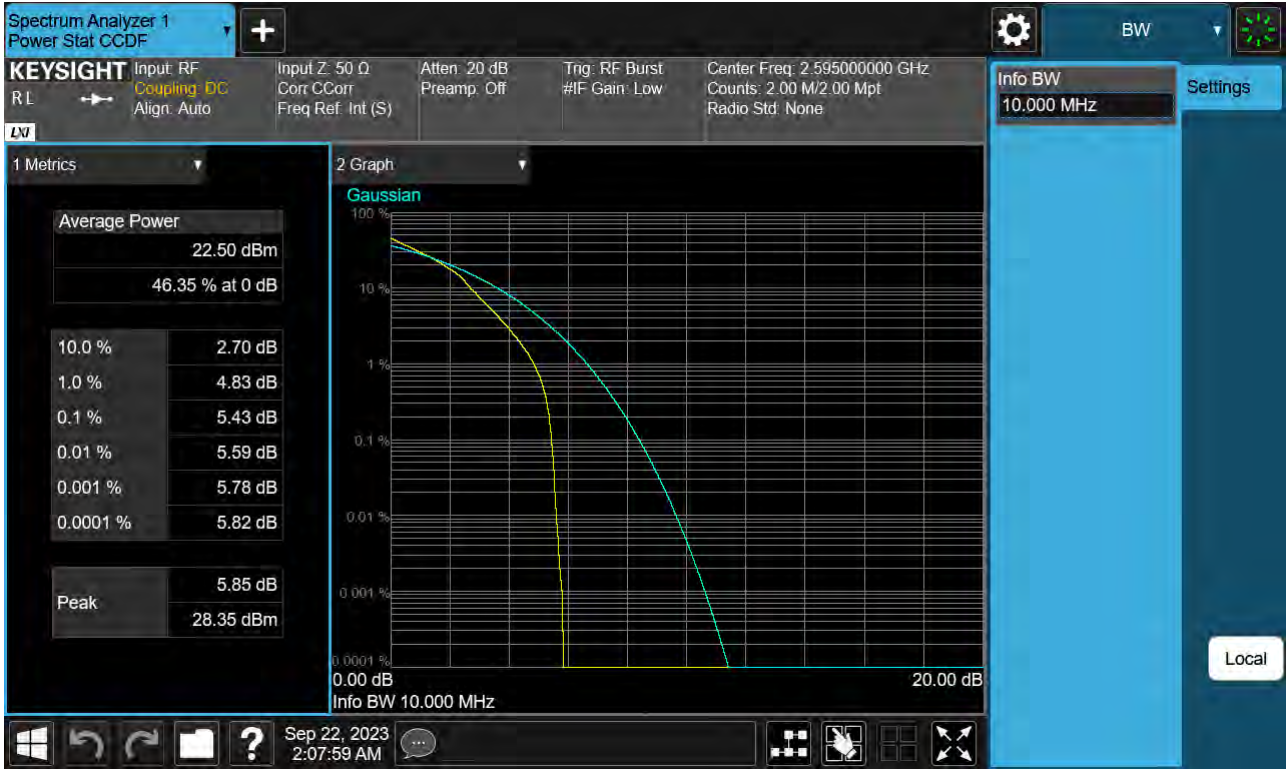
Sub6 n38. PAR Plot (10 M BW_Ch.519000_BPSK)



Sub6 n38. PAR Plot (10 M BW_Ch.519000_QPSK)



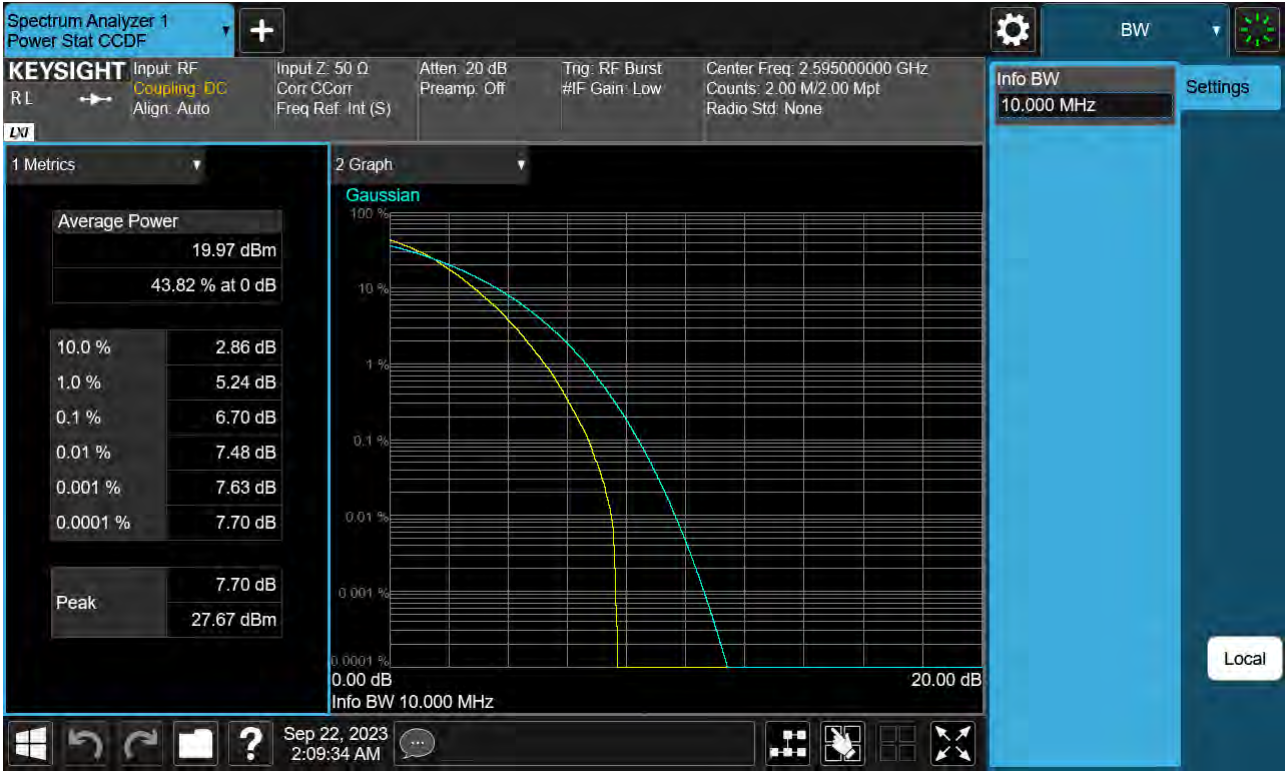
Sub6 n38. PAR Plot (10 M BW_Ch.519000_16QAM)



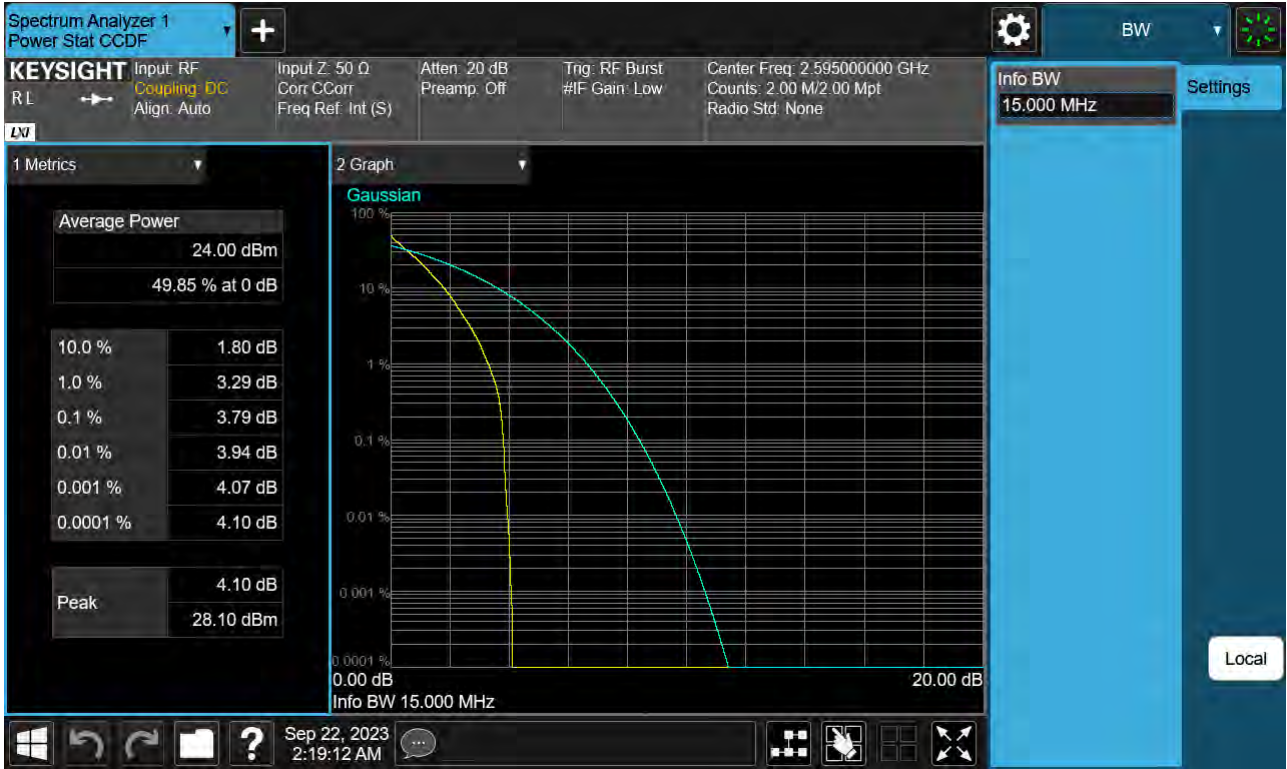
Sub6 n38. PAR Plot (10 M BW_Ch.519000_64QAM)



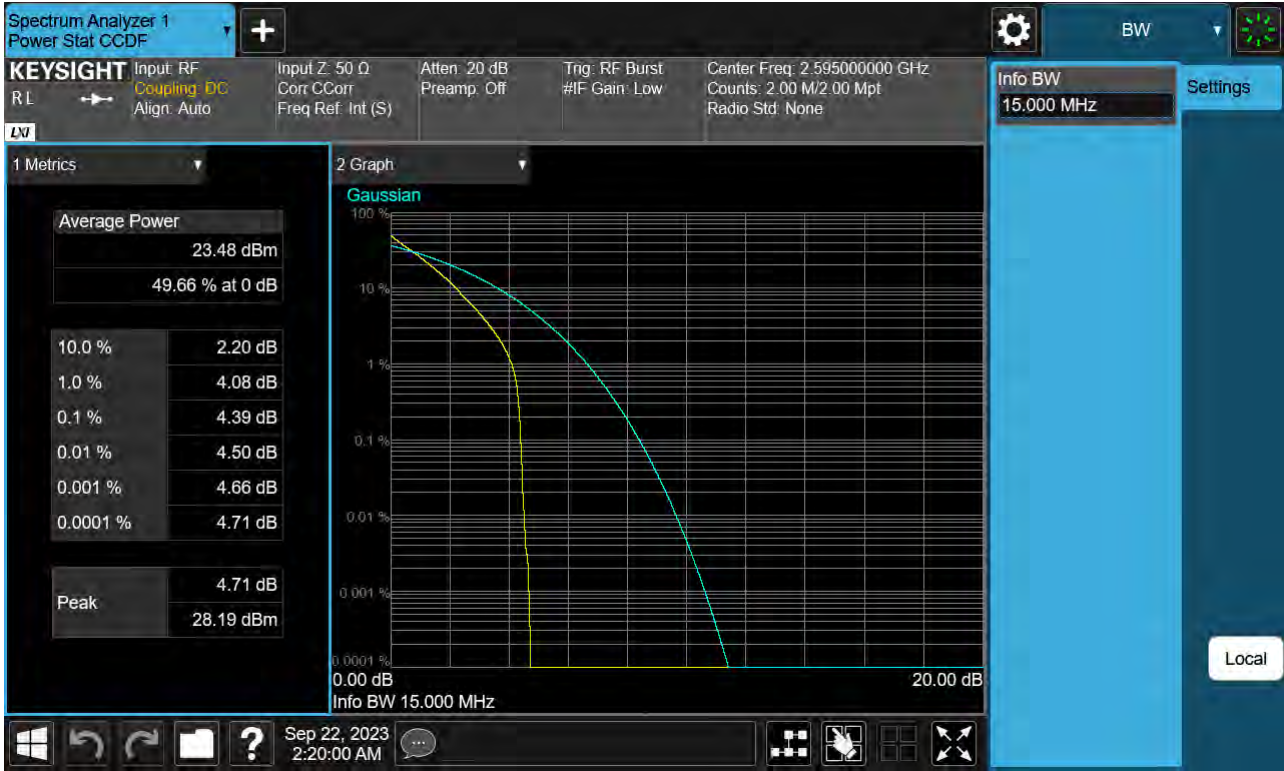
Sub6 n38. PAR Plot (10 M BW_Ch.519000_256QAM)



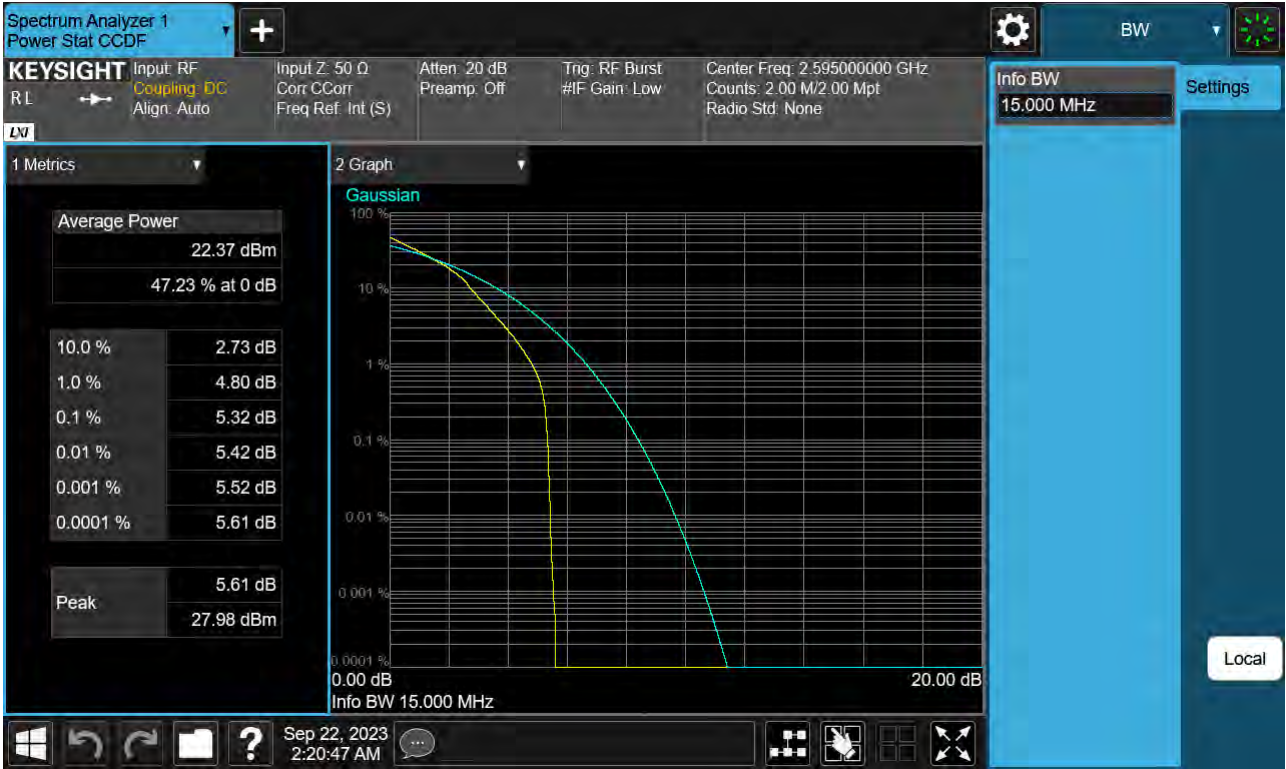
Sub6 n38. PAR Plot (15 M BW_Ch.519000_BPSK)



Sub6 n38. PAR Plot (15 M BW_Ch.519000_QPSK)



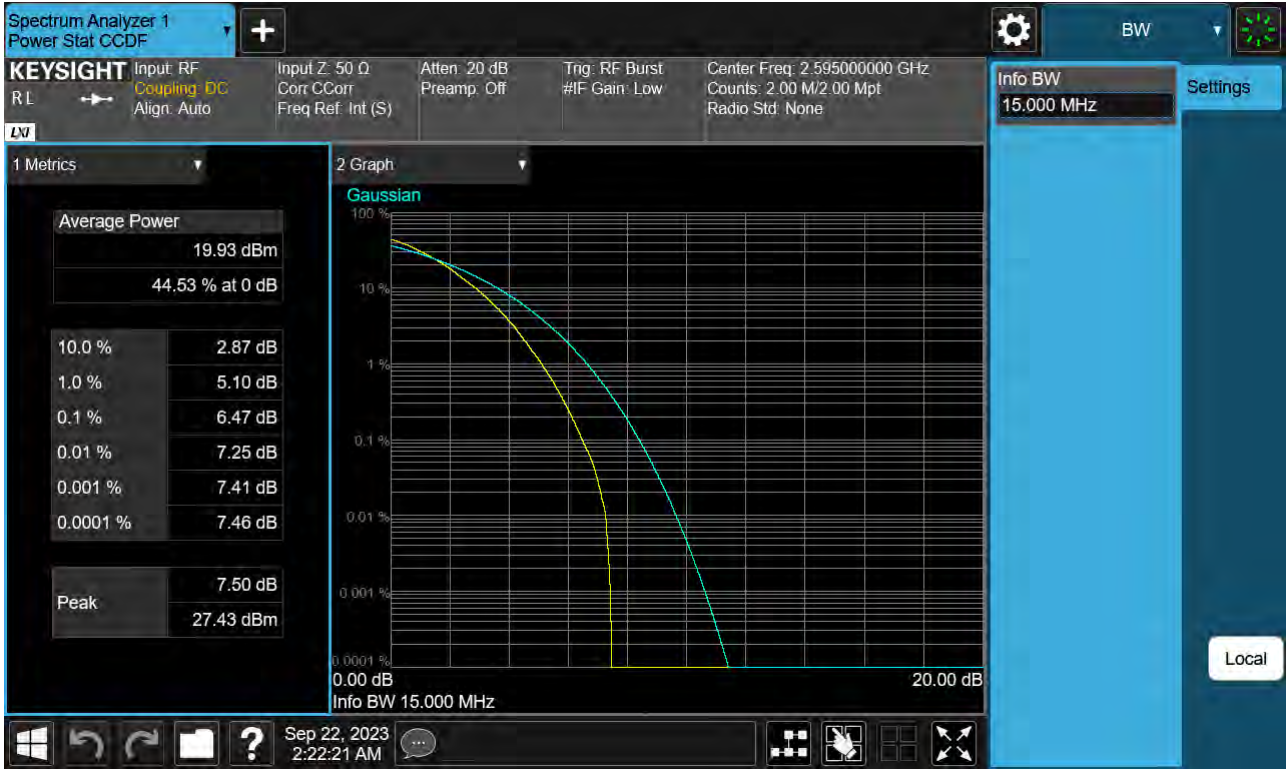
Sub6 n38. PAR Plot (15 M BW_Ch.519000_16QAM)



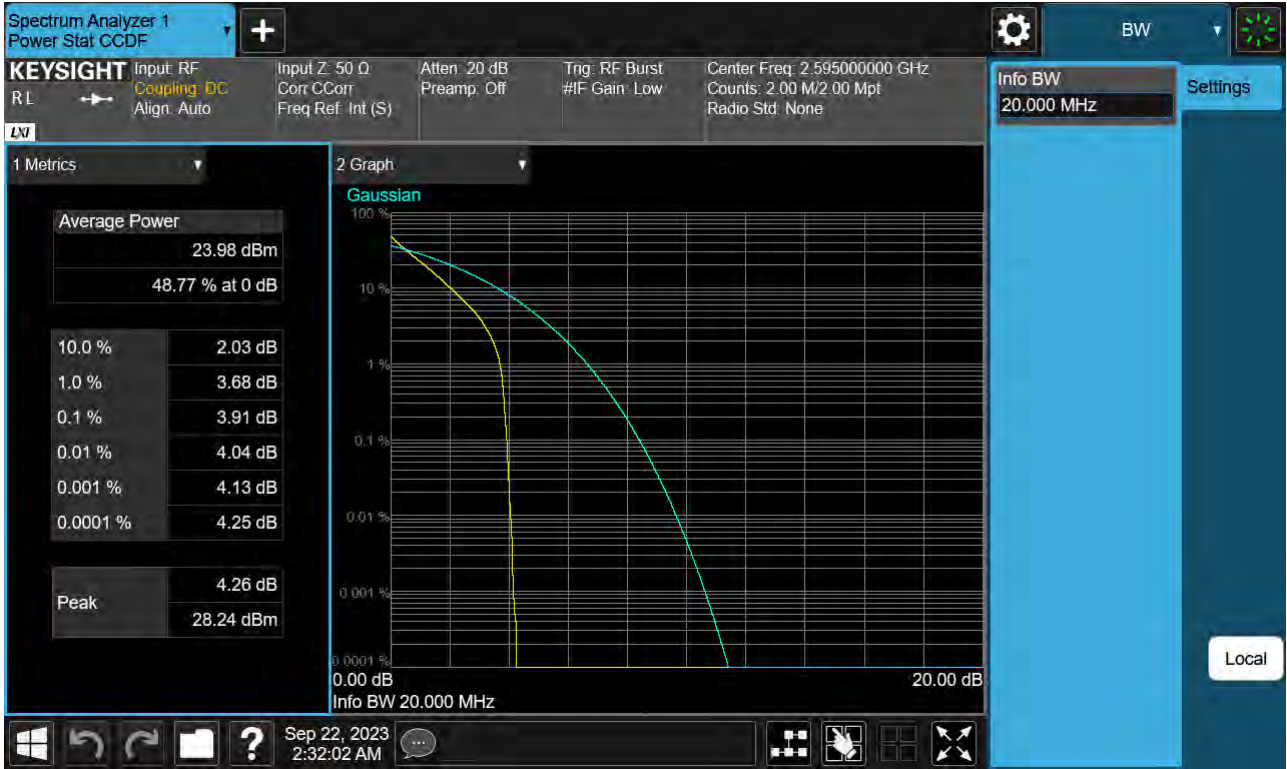
Sub6 n38. PAR Plot (15 M BW_Ch.519000_64QAM)



Sub6 n38. PAR Plot (15 M BW_Ch.519000_256QAM)



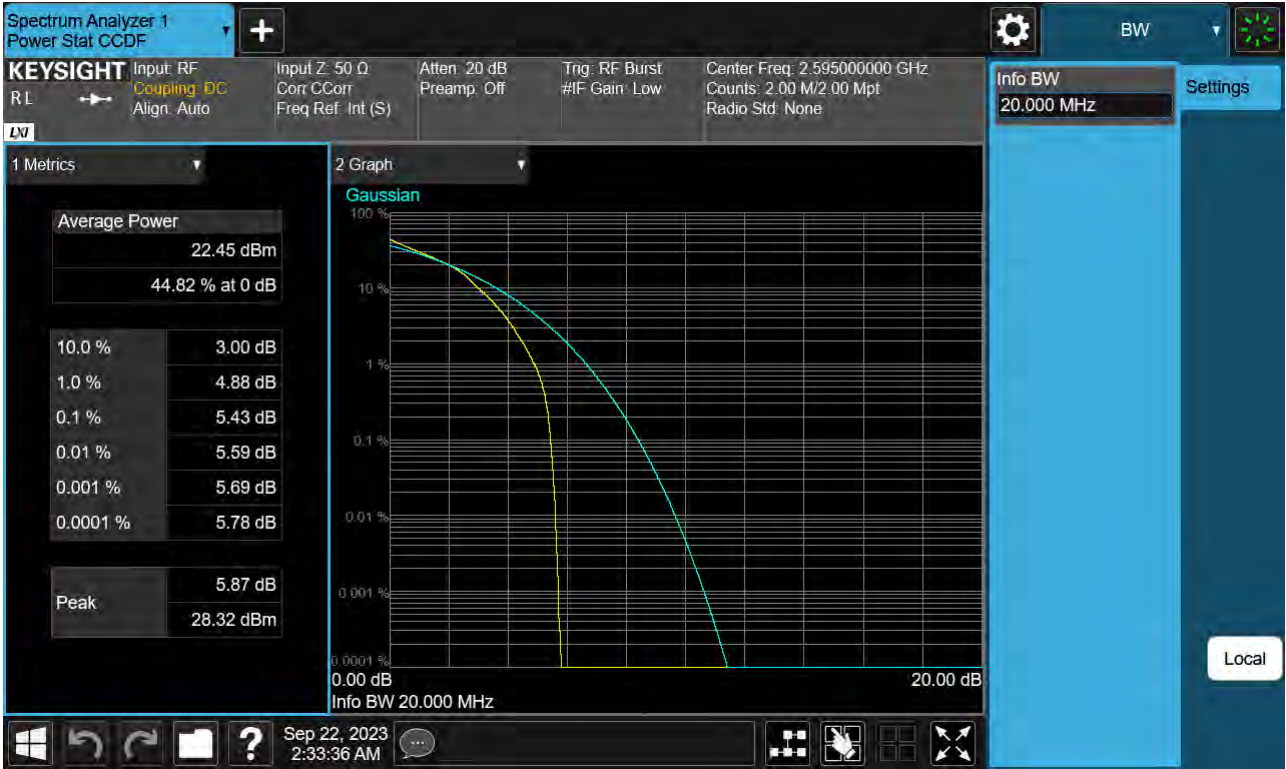
Sub6 n38. PAR Plot (20 M BW_Ch.519000_BPSK)



Sub6 n38. PAR Plot (20 M BW_Ch.519000_QPSK)



Sub6 n38. PAR Plot (20 M BW_Ch.519000_16QAM)



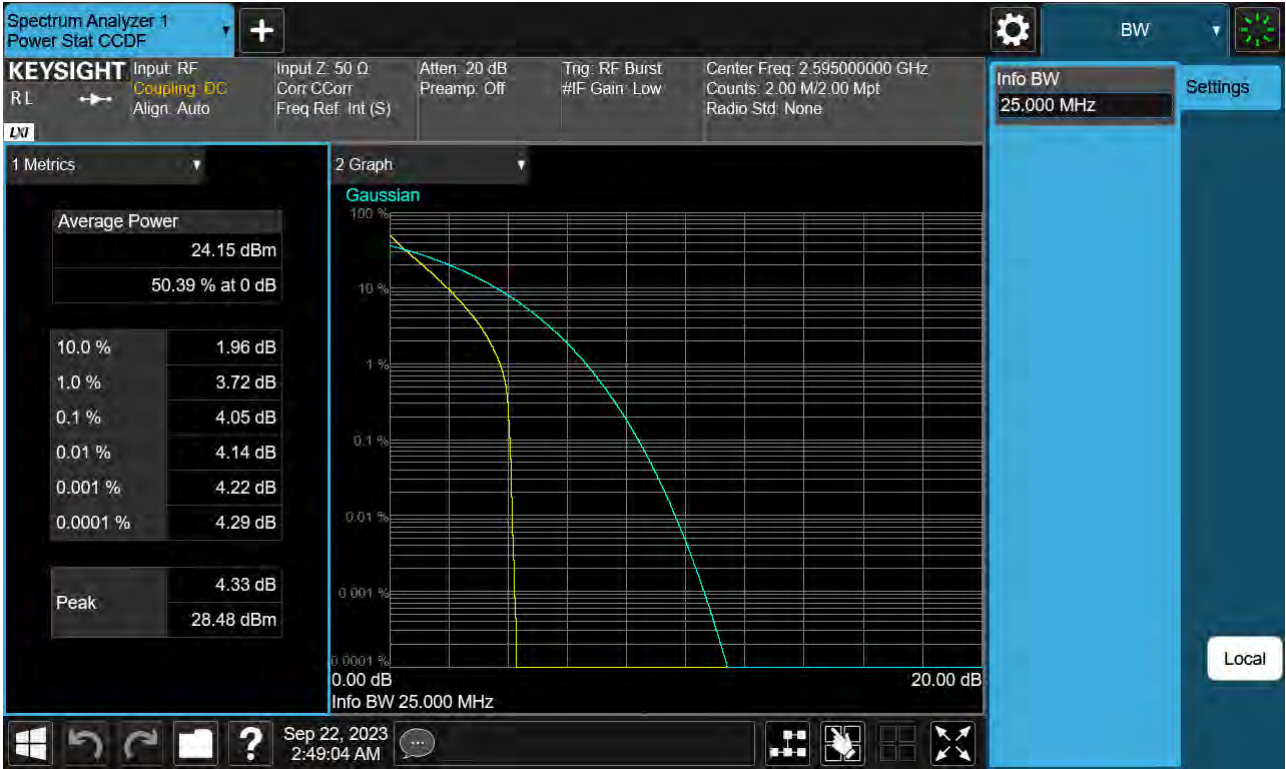
Sub6 n38. PAR Plot (20 M BW_Ch.519000_64QAM)



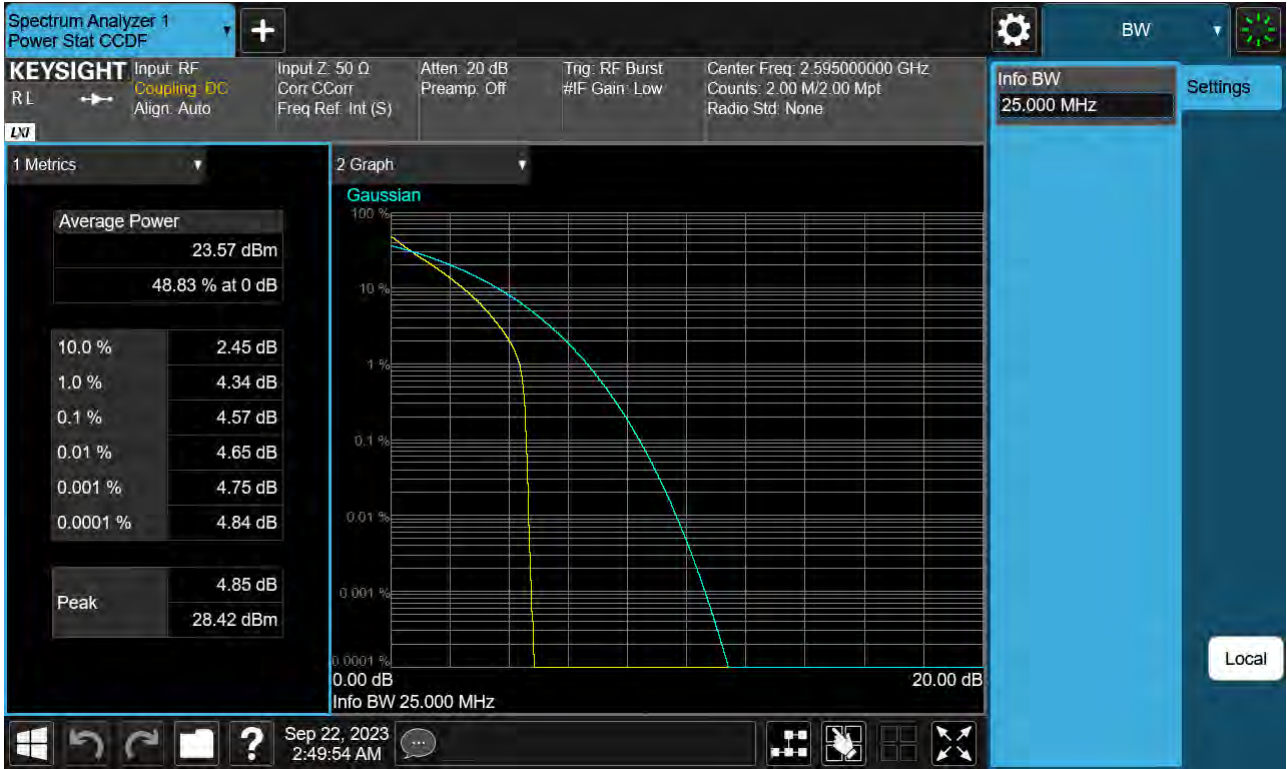
Sub6 n38. PAR Plot (20 M BW_Ch.519000_256QAM)



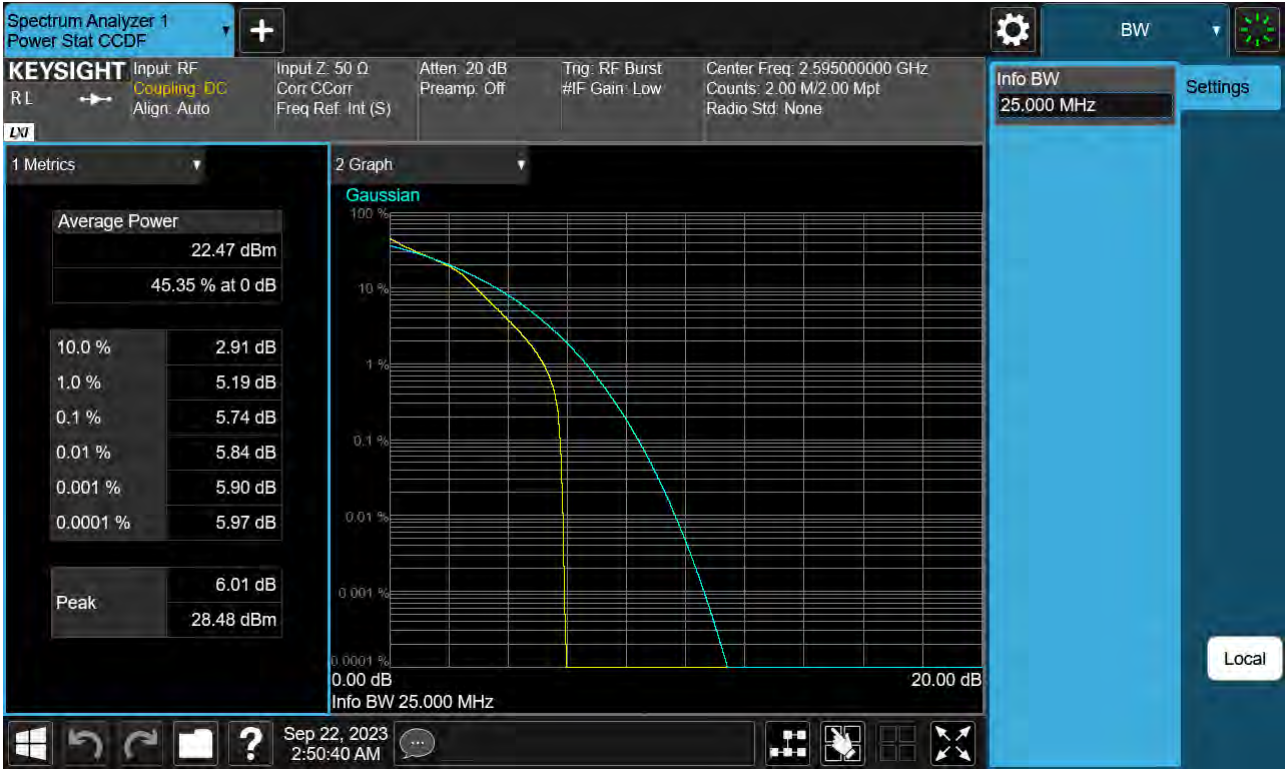
Sub6 n38. PAR Plot (25 M BW_Ch.519000_BPSK)



Sub6 n38. PAR Plot (25 M BW_Ch.519000_QPSK)



Sub6 n38. PAR Plot (25 M BW_Ch.519000_16QAM)



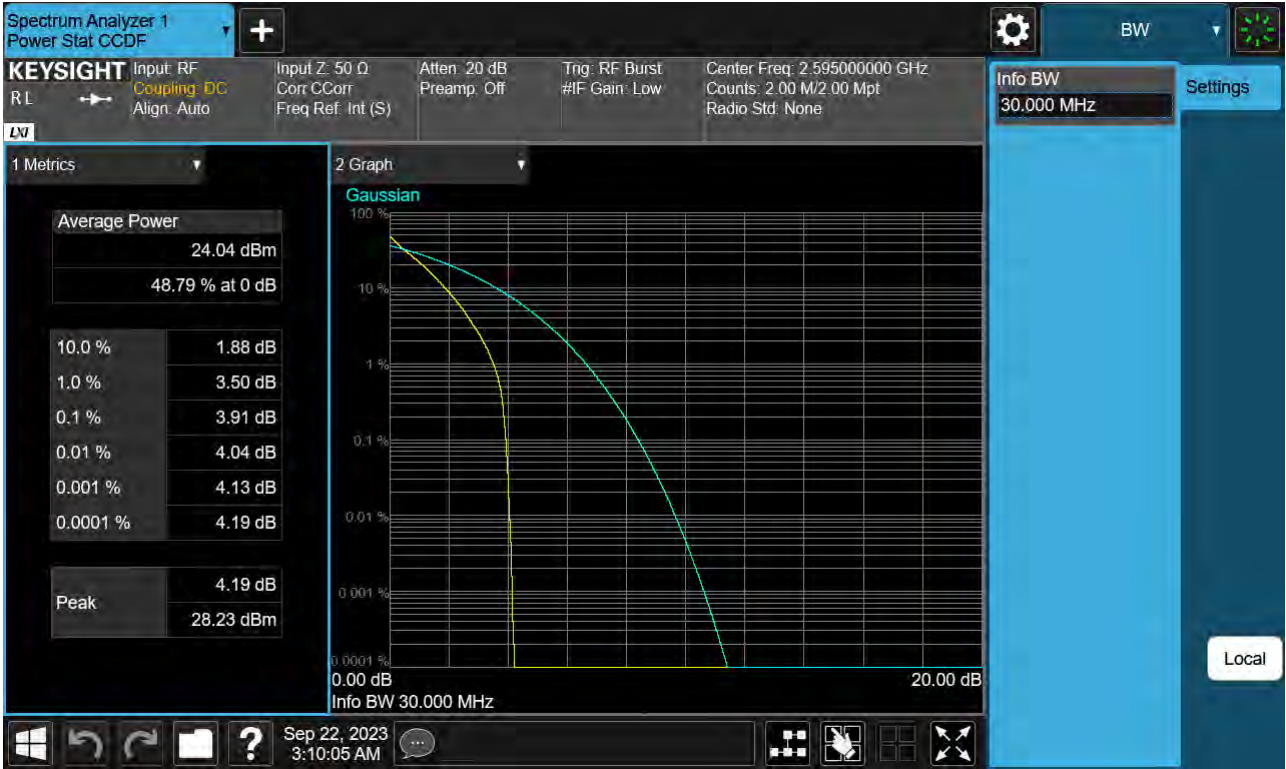
Sub6 n38. PAR Plot (25 M BW_Ch.519000_64QAM)



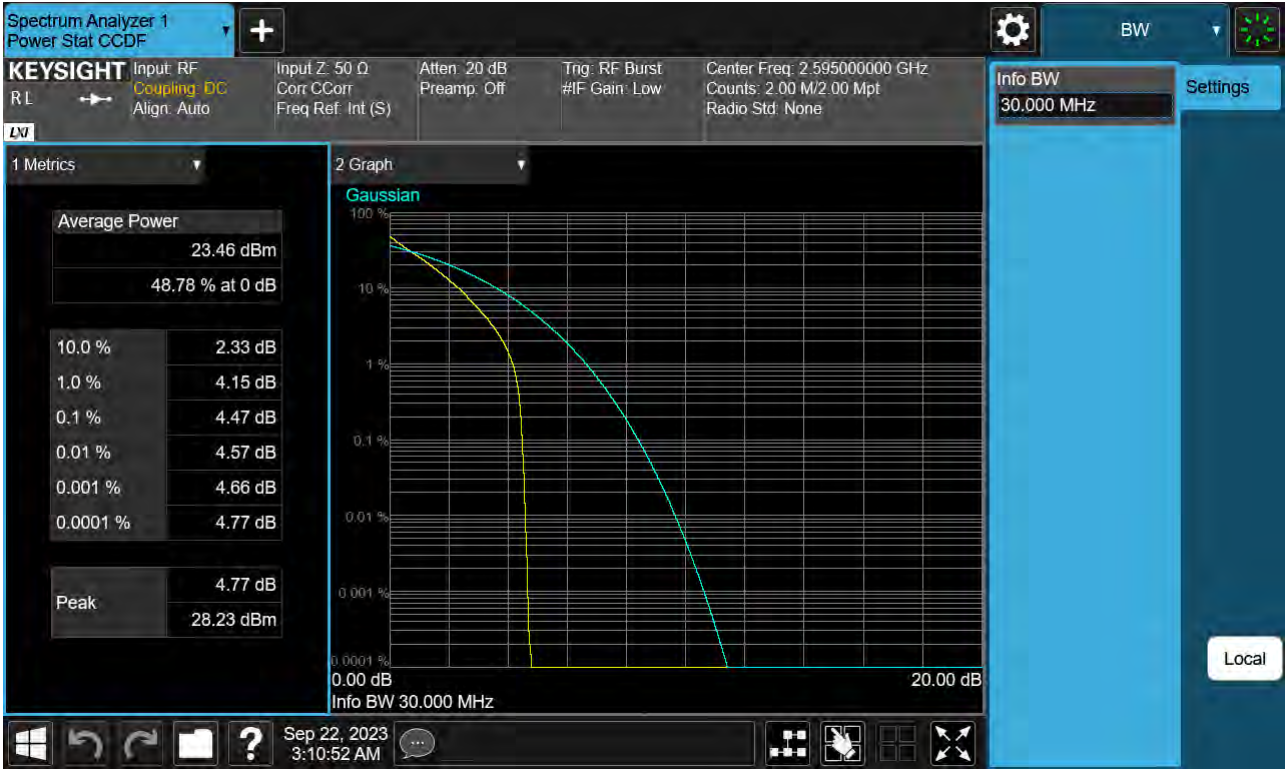
Sub6 n38. PAR Plot (25 M BW_Ch.519000_256QAM)



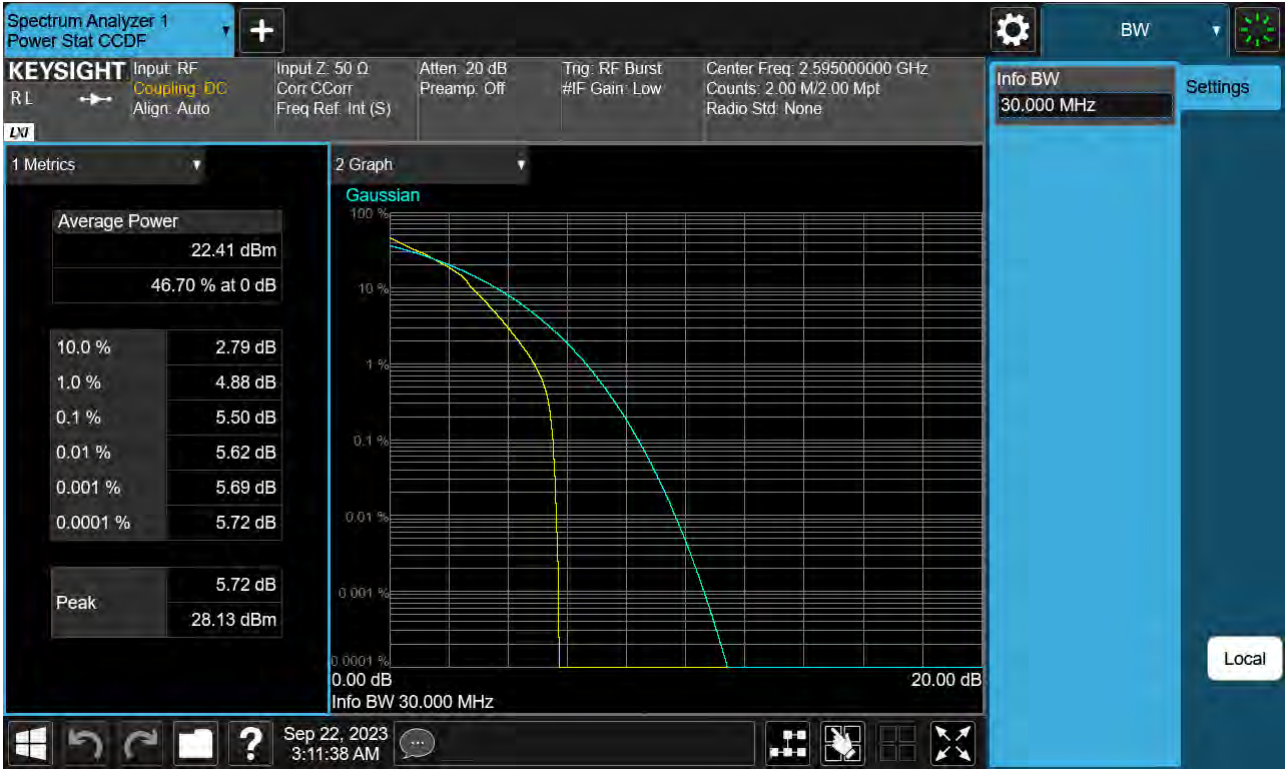
Sub6 n38. PAR Plot (30 M BW_Ch.519000_BPSK)



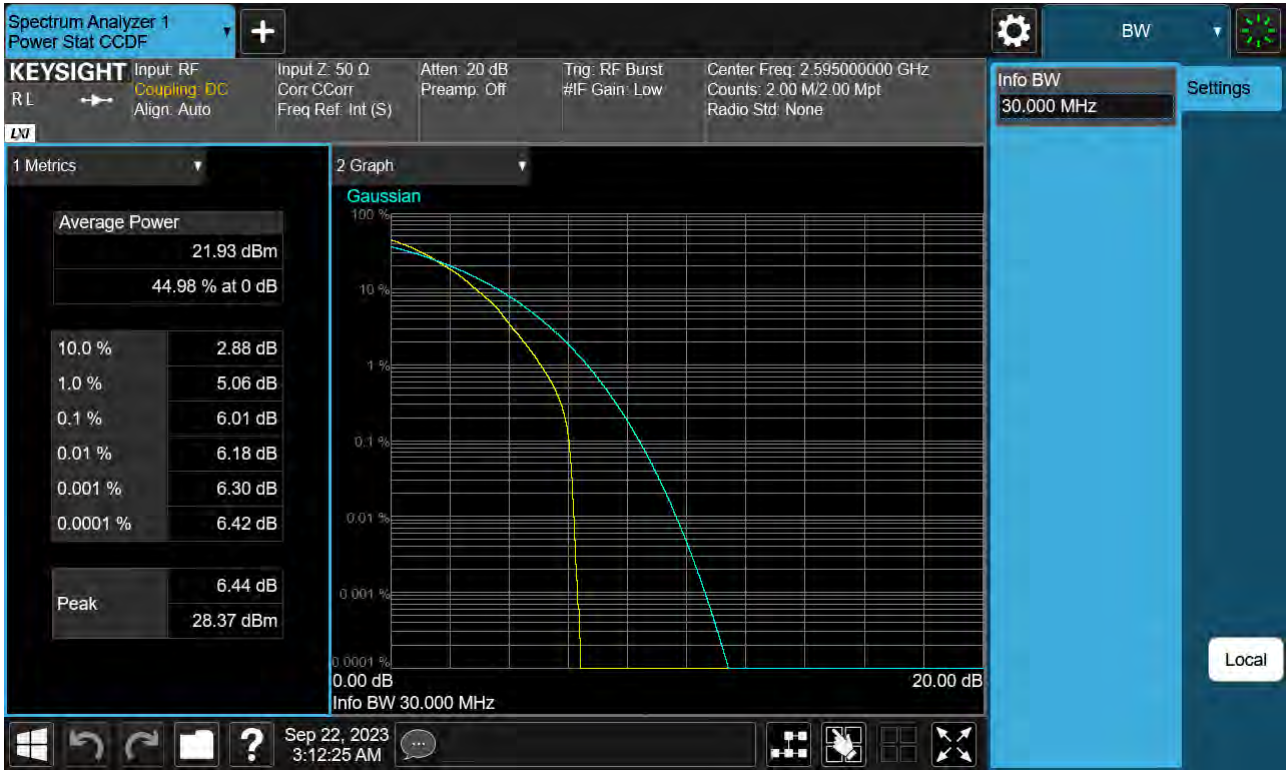
Sub6 n38. PAR Plot (30 M BW_Ch.519000_QPSK)



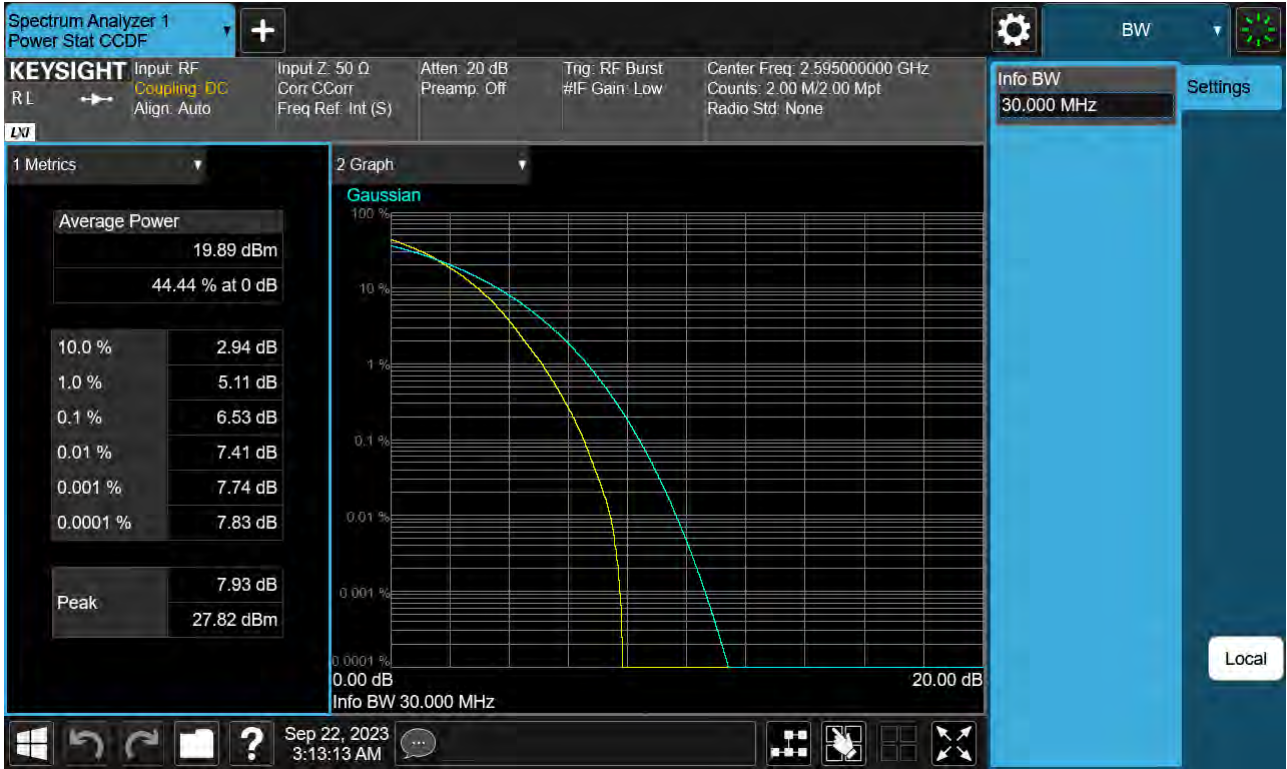
Sub6 n38. PAR Plot (30 M BW_Ch.519000_16QAM)



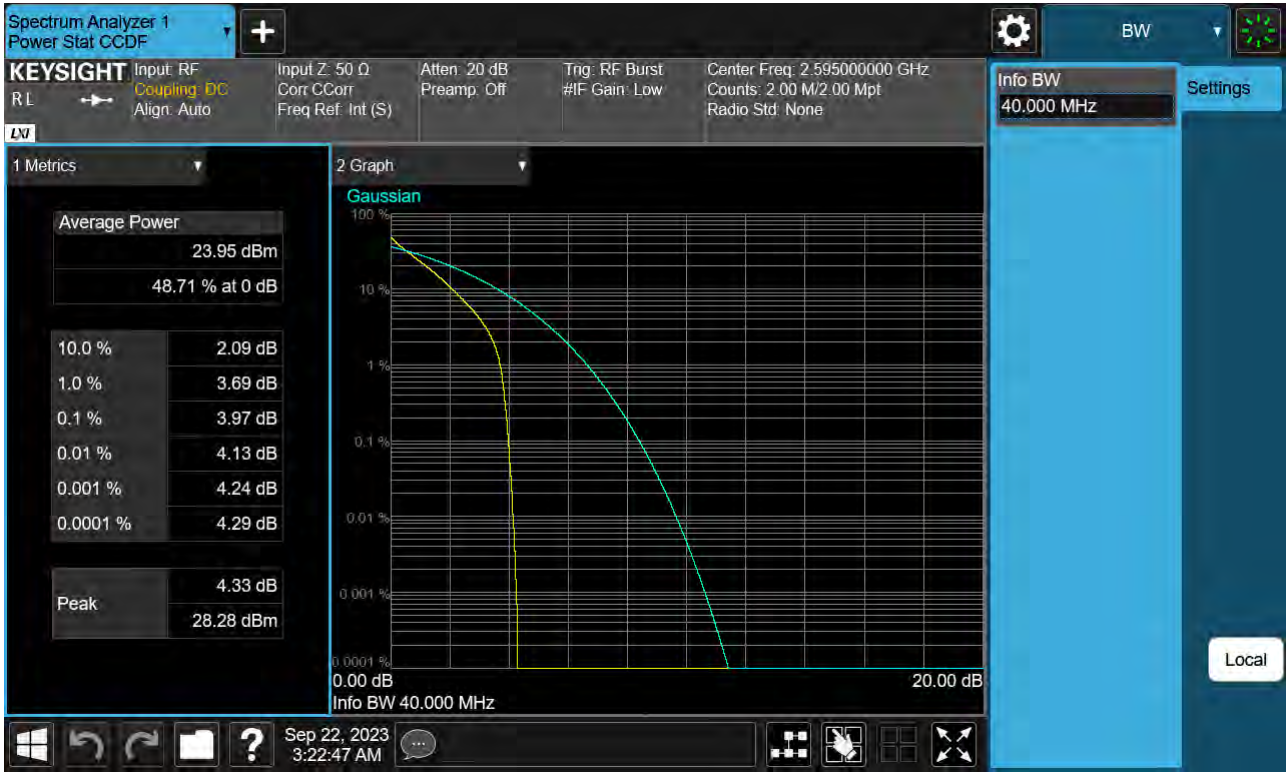
Sub6 n38. PAR Plot (30 M BW_Ch.519000_64QAM)



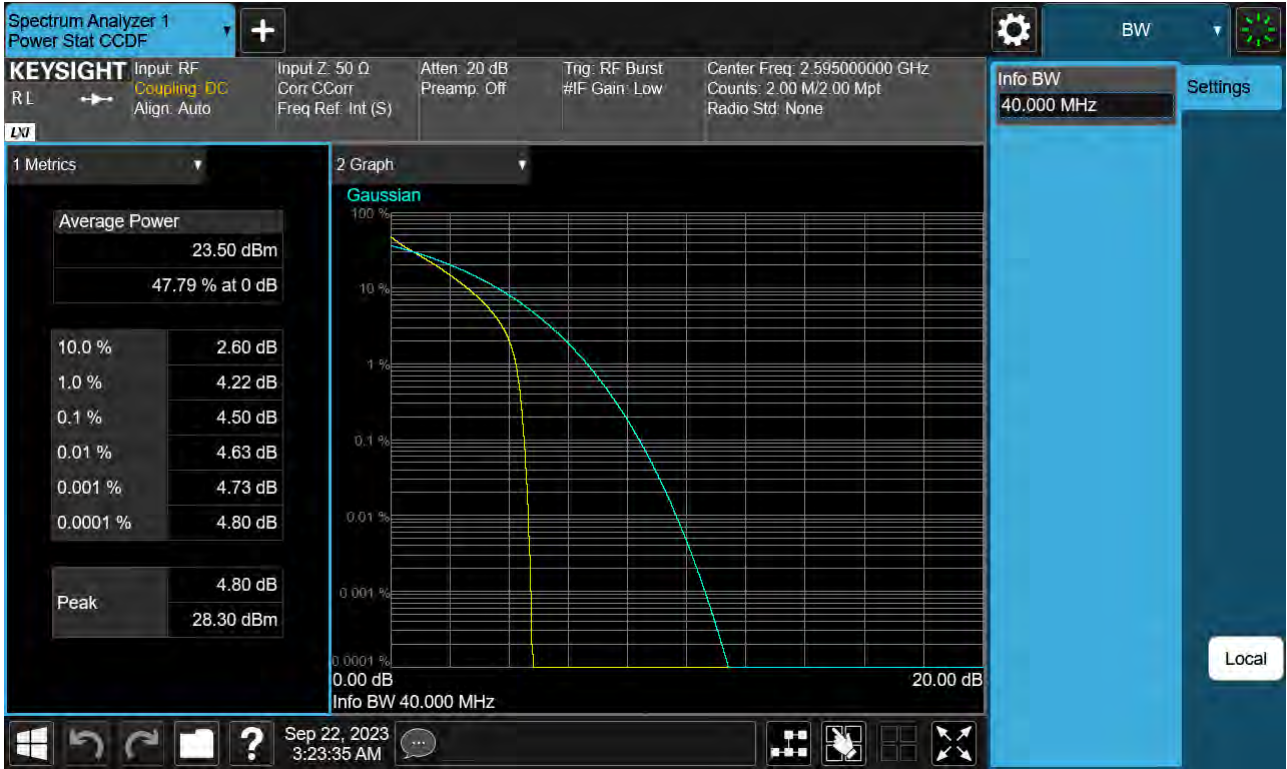
Sub6 n38. PAR Plot (30 M BW_Ch.519000_256QAM)



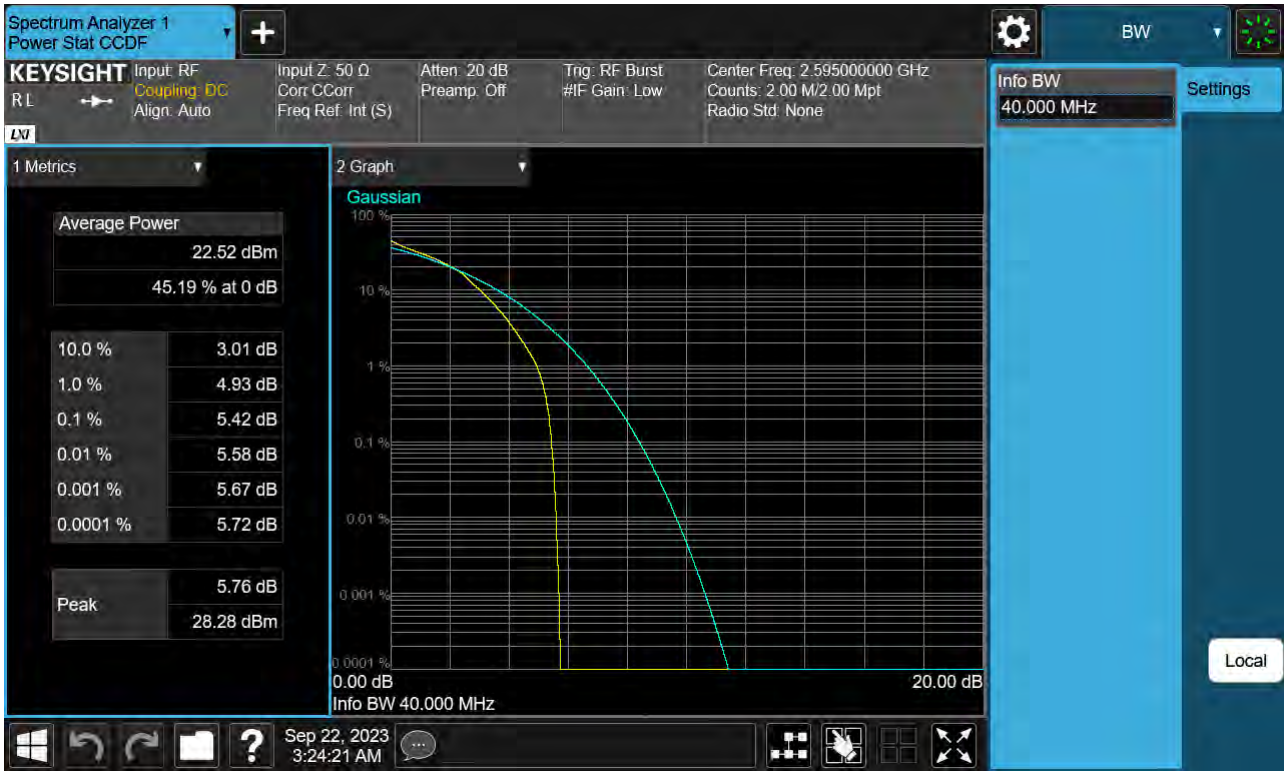
Sub6 n38. PAR Plot (40 M BW_Ch.519000_BPSK)



Sub6 n38. PAR Plot (40 M BW_Ch.519000_QPSK)



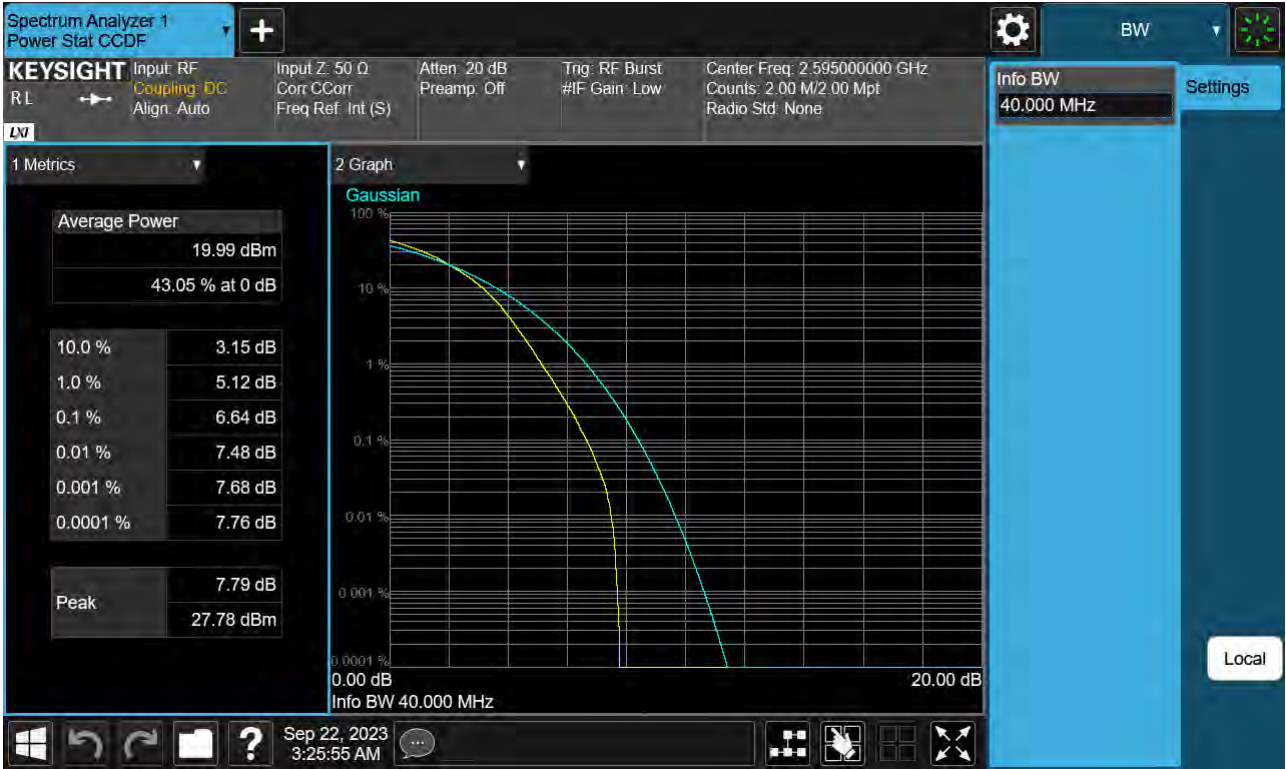
Sub6 n38. PAR Plot (40 M BW_Ch.519000_16QAM)



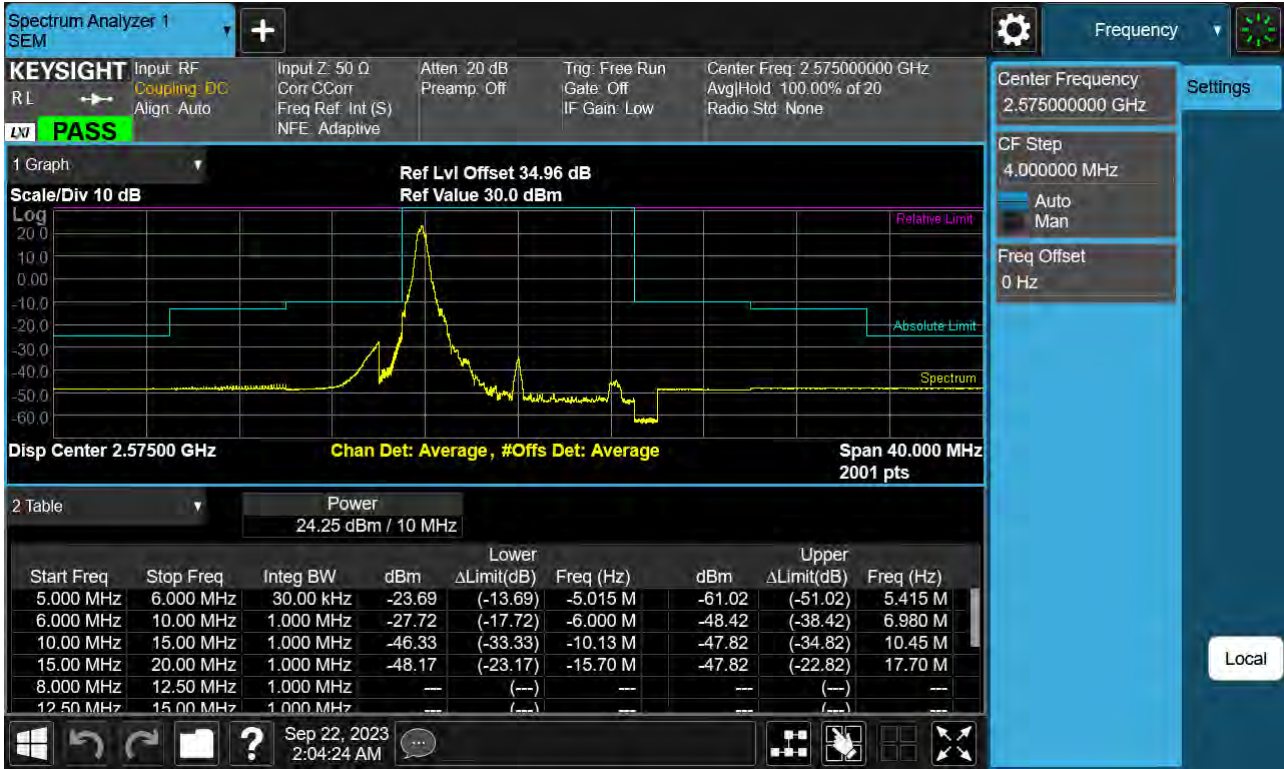
Sub6 n38. PAR Plot (40 M BW_Ch.519000_64QAM)



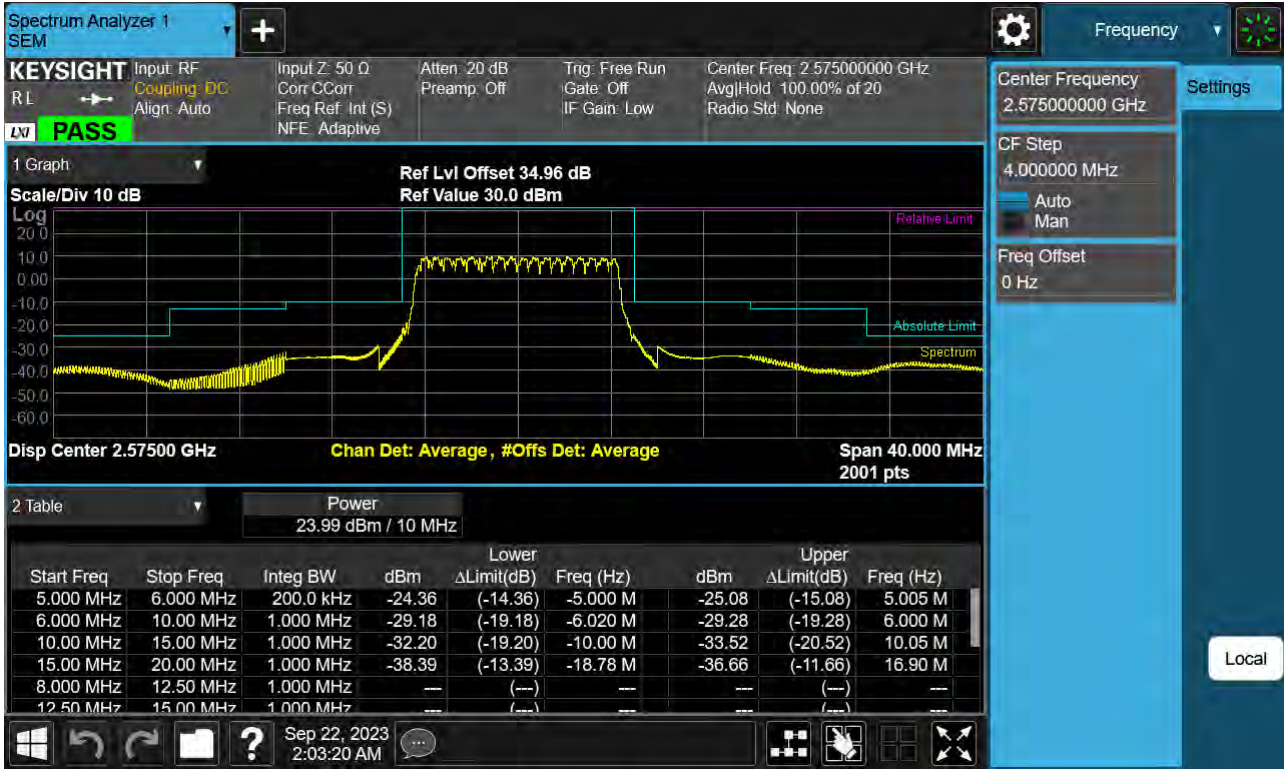
Sub6 n38. PAR Plot (40 M BW_Ch.519000_256QAM)



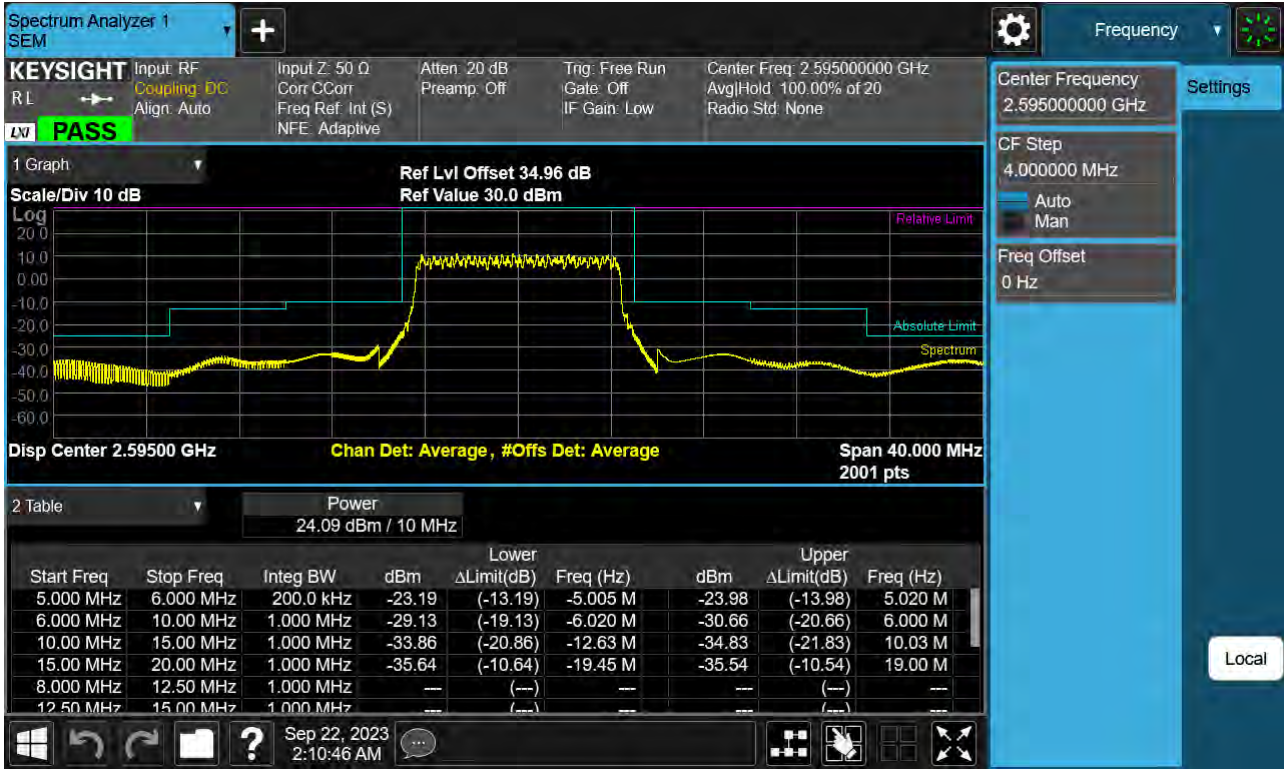
Sub6 n38. Low Channel Edge Plot (10 MHz Ch.515000 BPSK RB 1)



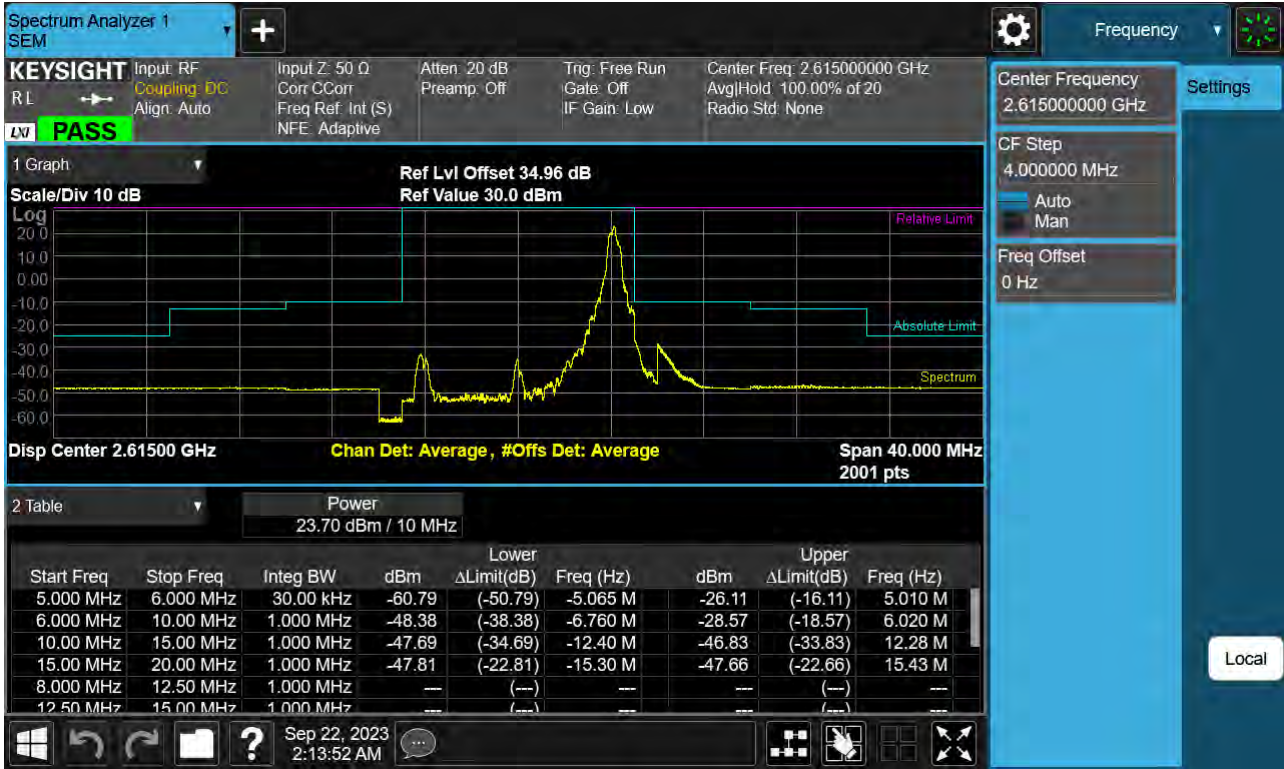
Sub6 n38. Low Channel Edge Plot (10 MHz Ch.515000 BPSK)



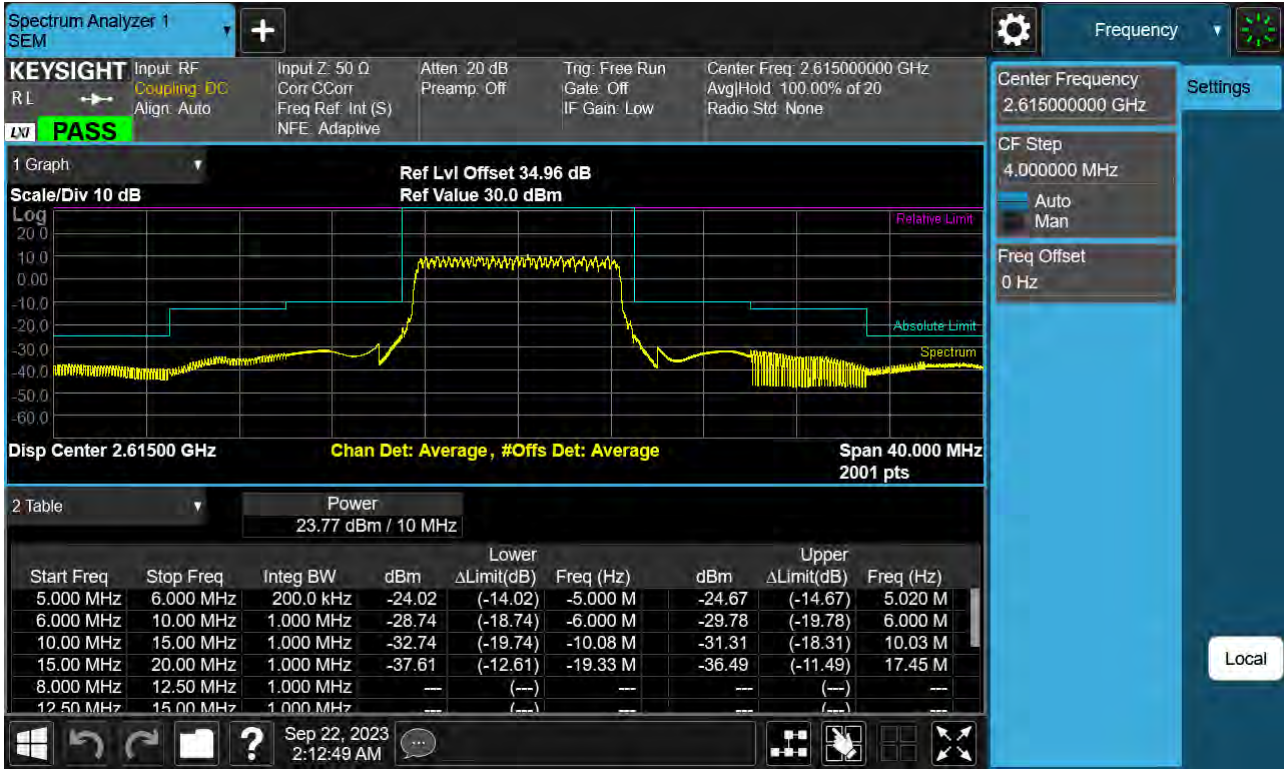
Sub6 n38. Mid Channel Edge Plot (10 MHz Ch.519000 BPSK)



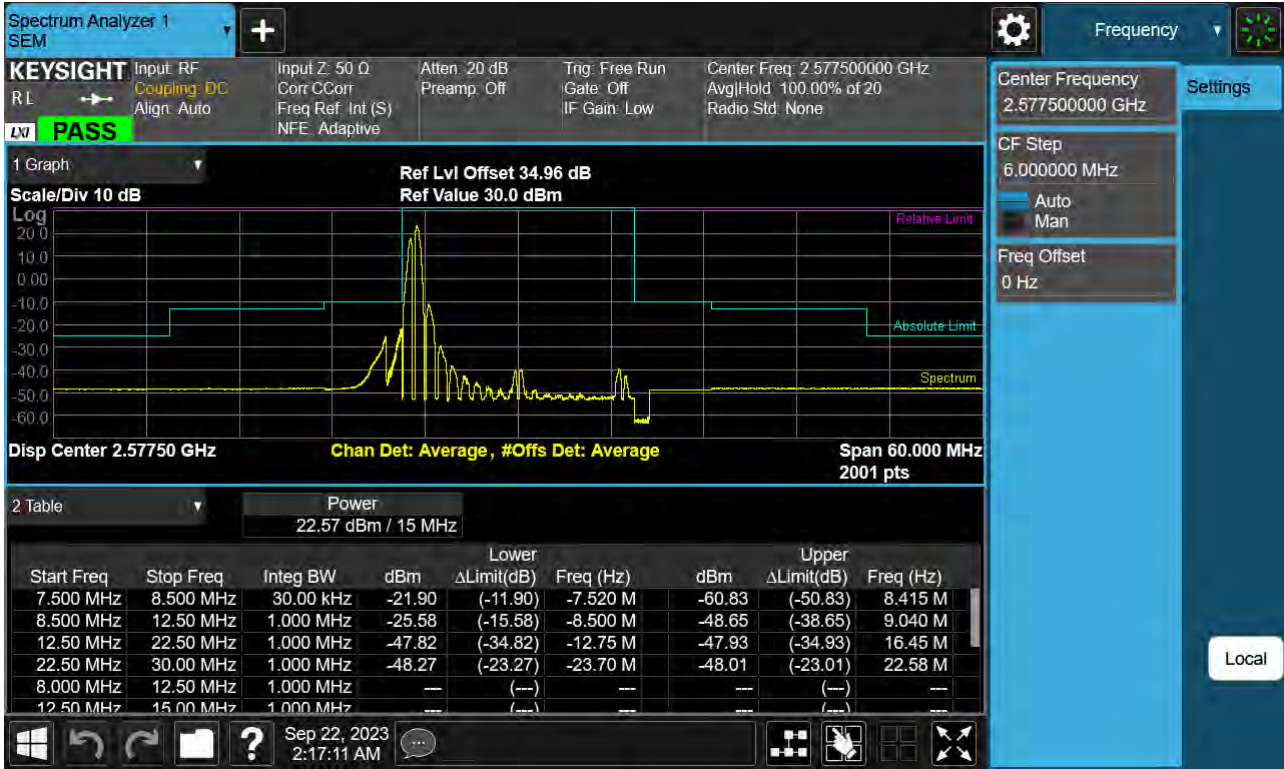
Sub6 n38. High Channel Edge Plot (10 MHz Ch.523000 BPSK RB 1)



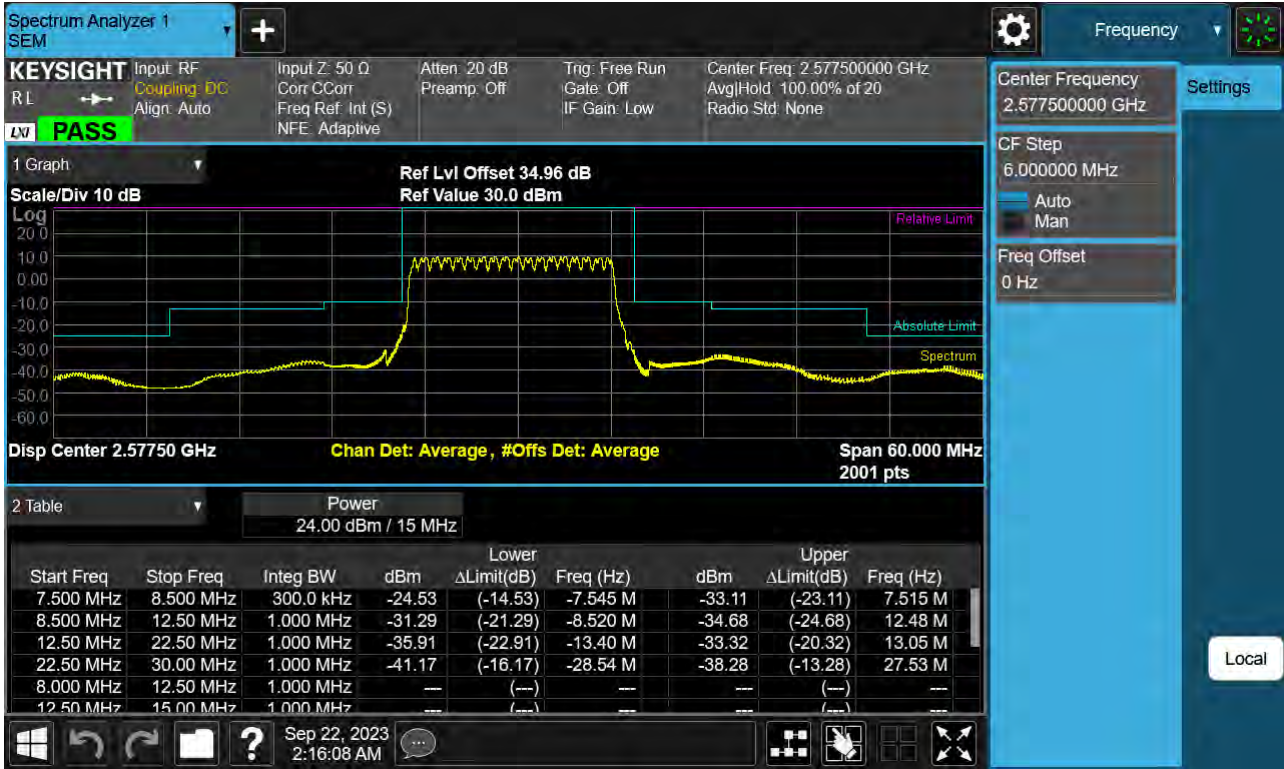
Sub6 n38. High Channel Edge Plot (10 MHz Ch.523000 BPSK)



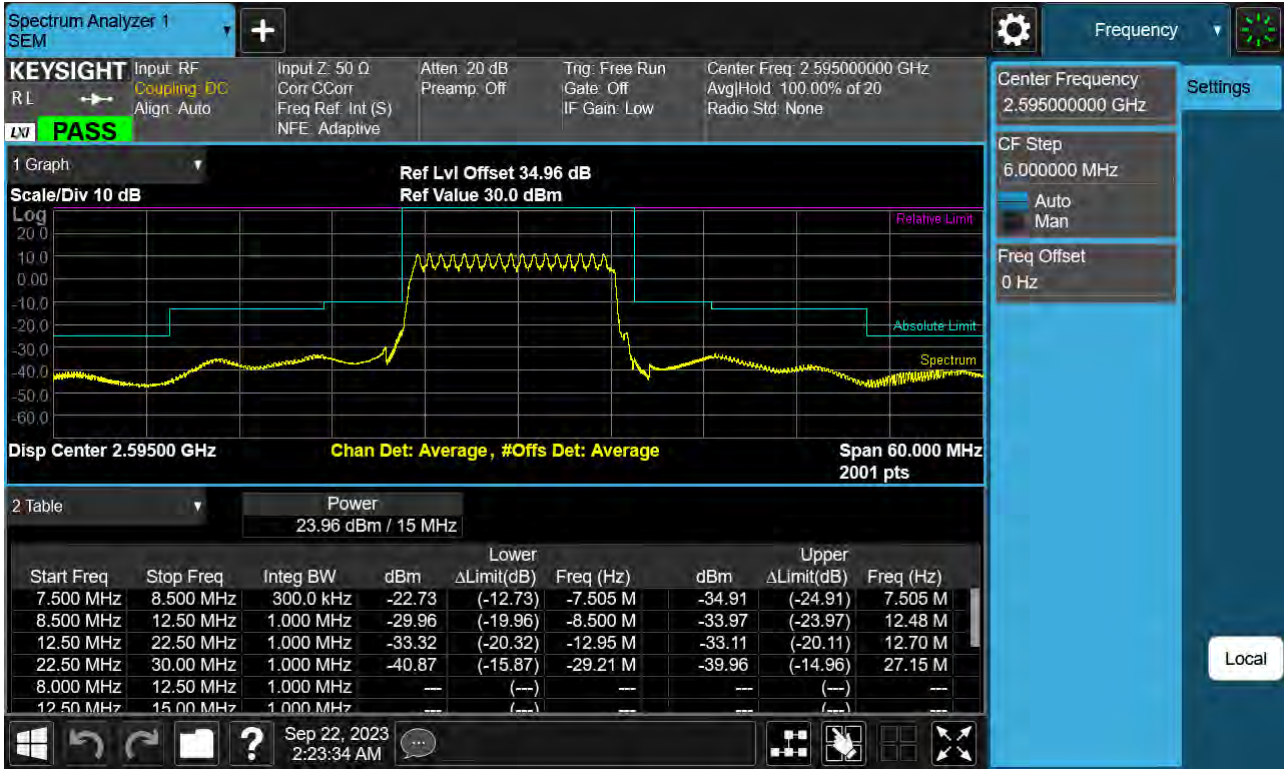
Sub6 n38. Low Channel Edge Plot (15 MHz Ch.515500 BPSK RB 1)



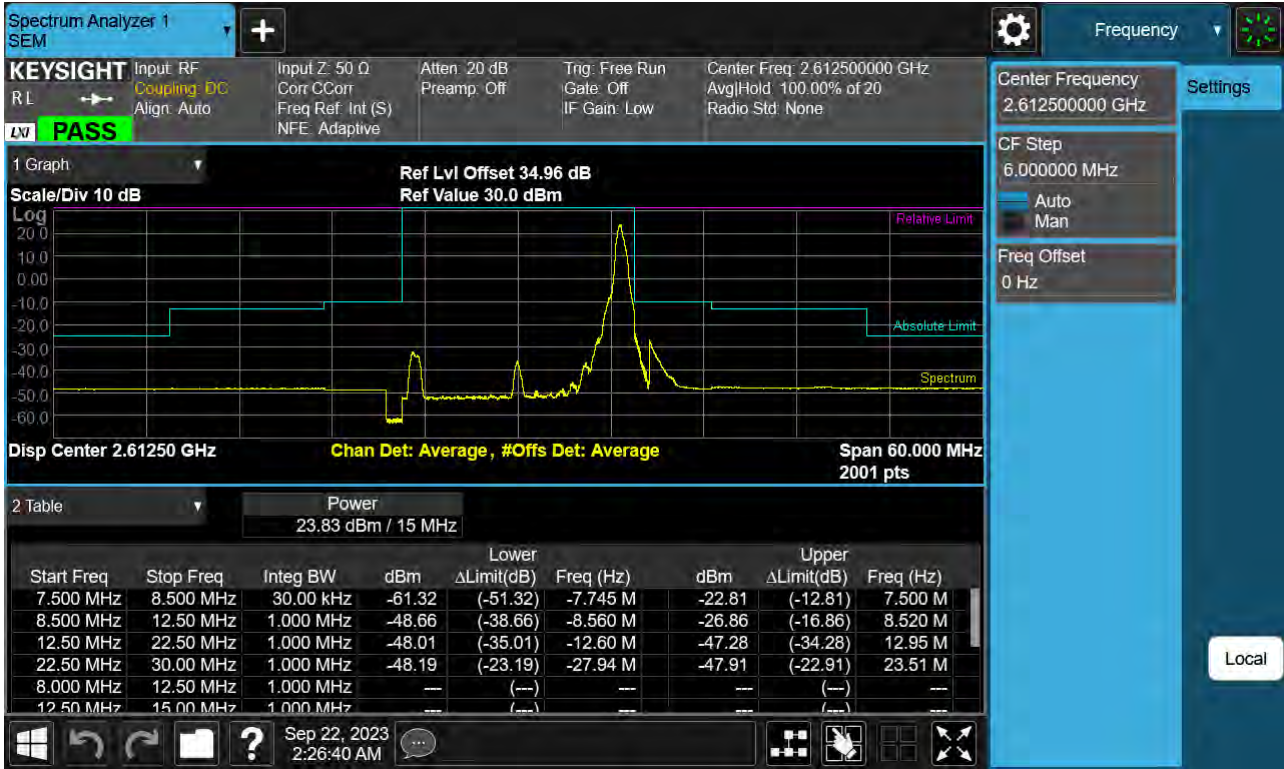
Sub6 n38. Low Channel Edge Plot (15 MHz Ch.515500 BPSK)



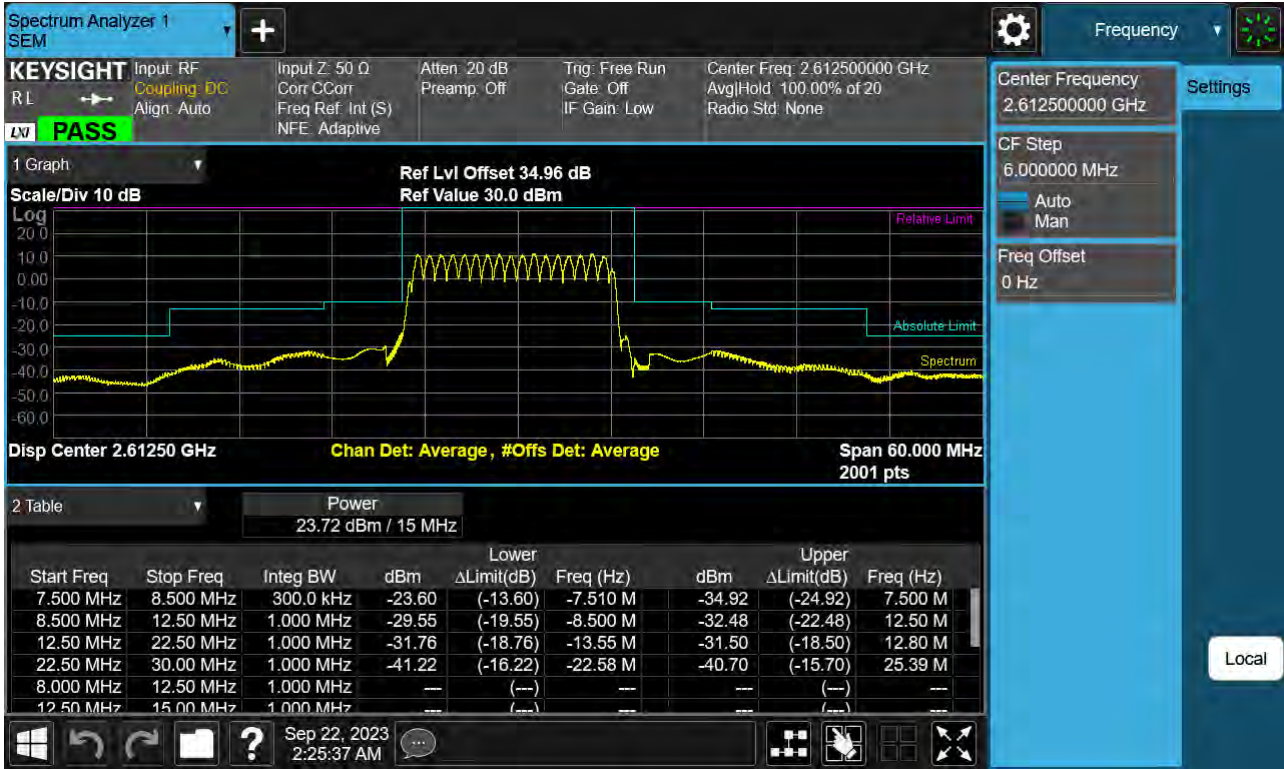
Sub6 n38. Mid Channel Edge Plot (15 MHz Ch.519000 BPSK)



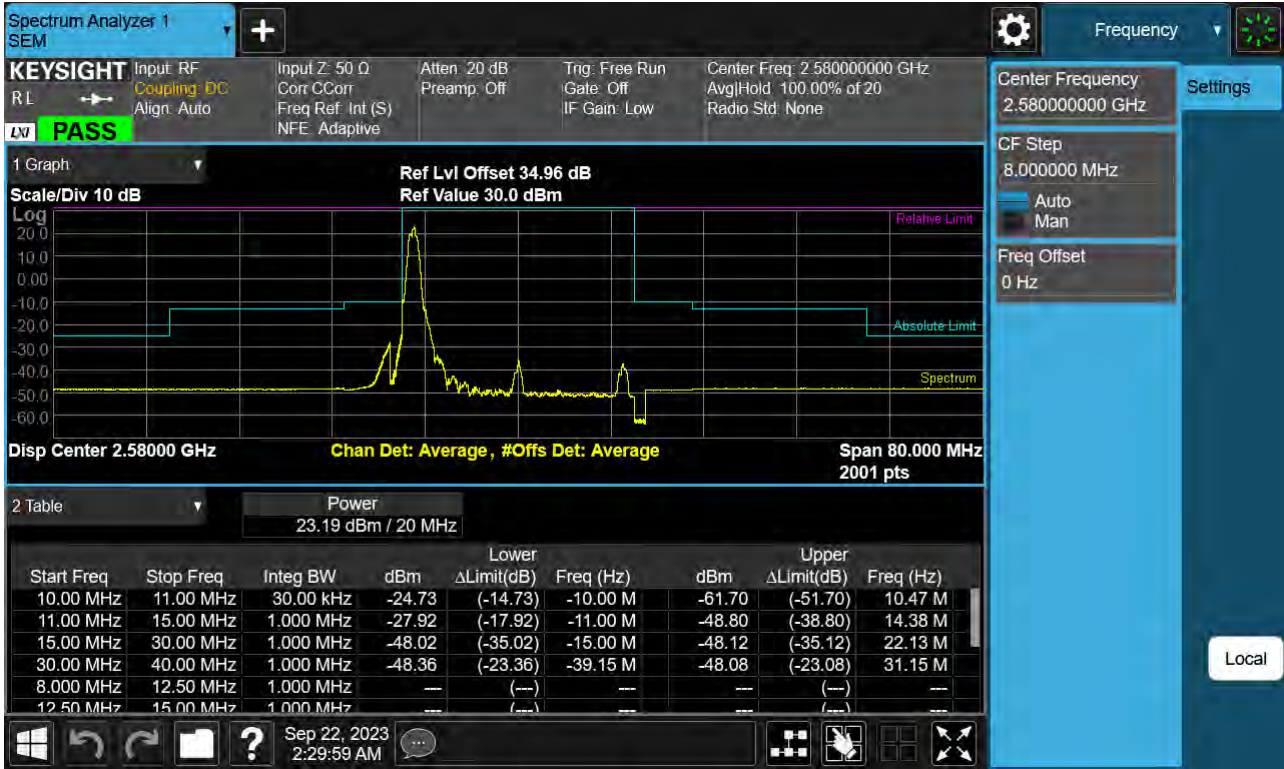
Sub6 n38. High Channel Edge Plot (15 MHz Ch.522500 BPSK RB 1)



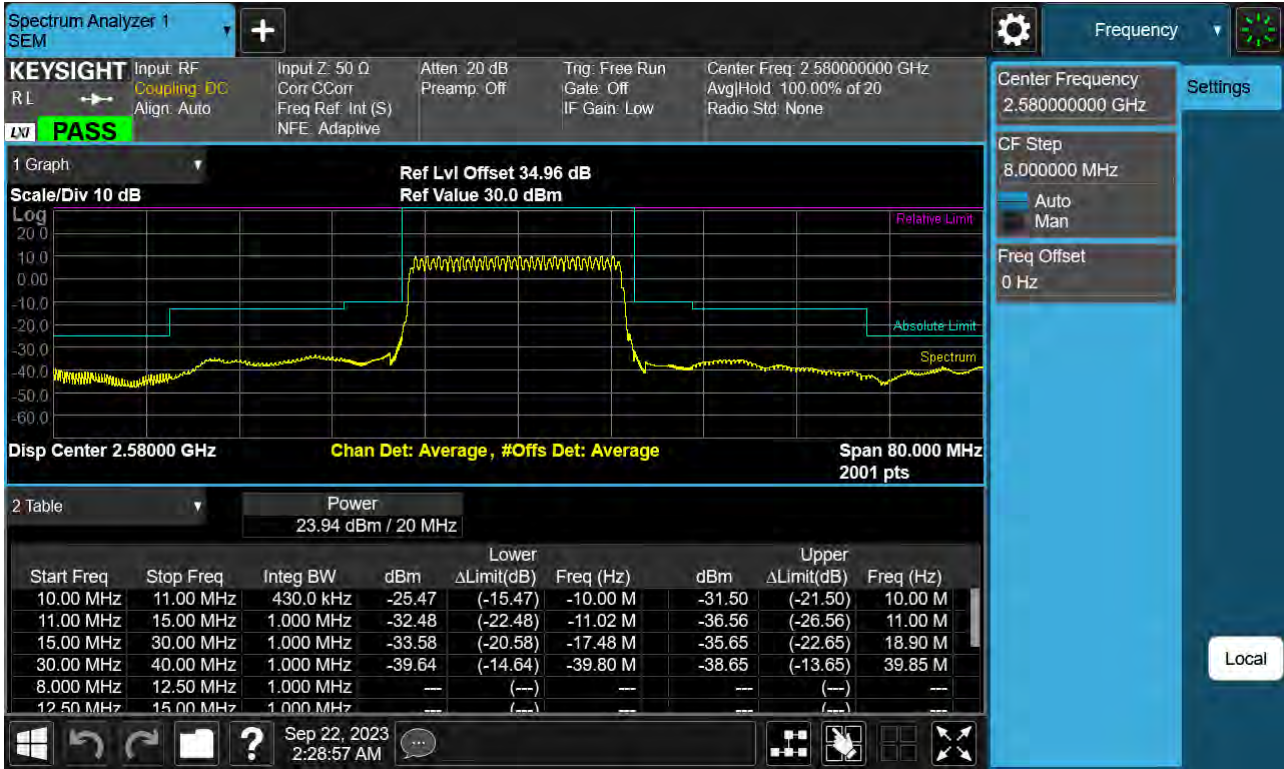
Sub6 n38. High Channel Edge Plot (15 MHz Ch.522500 BPSK)



Sub6 n38. Low Channel Edge Plot (20 MHz Ch.516000 BPSK RB 1)



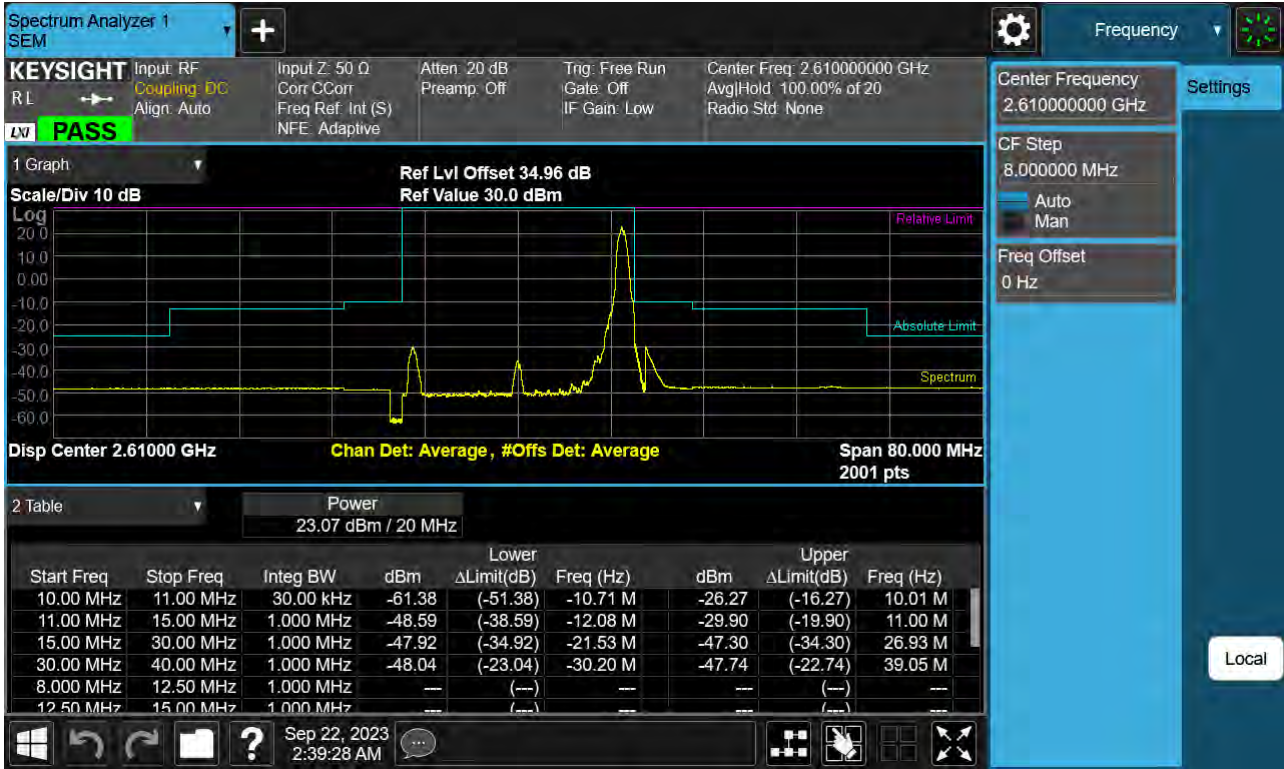
Sub6 n38. Low Channel Edge Plot (20 MHz Ch.516000 BPSK)



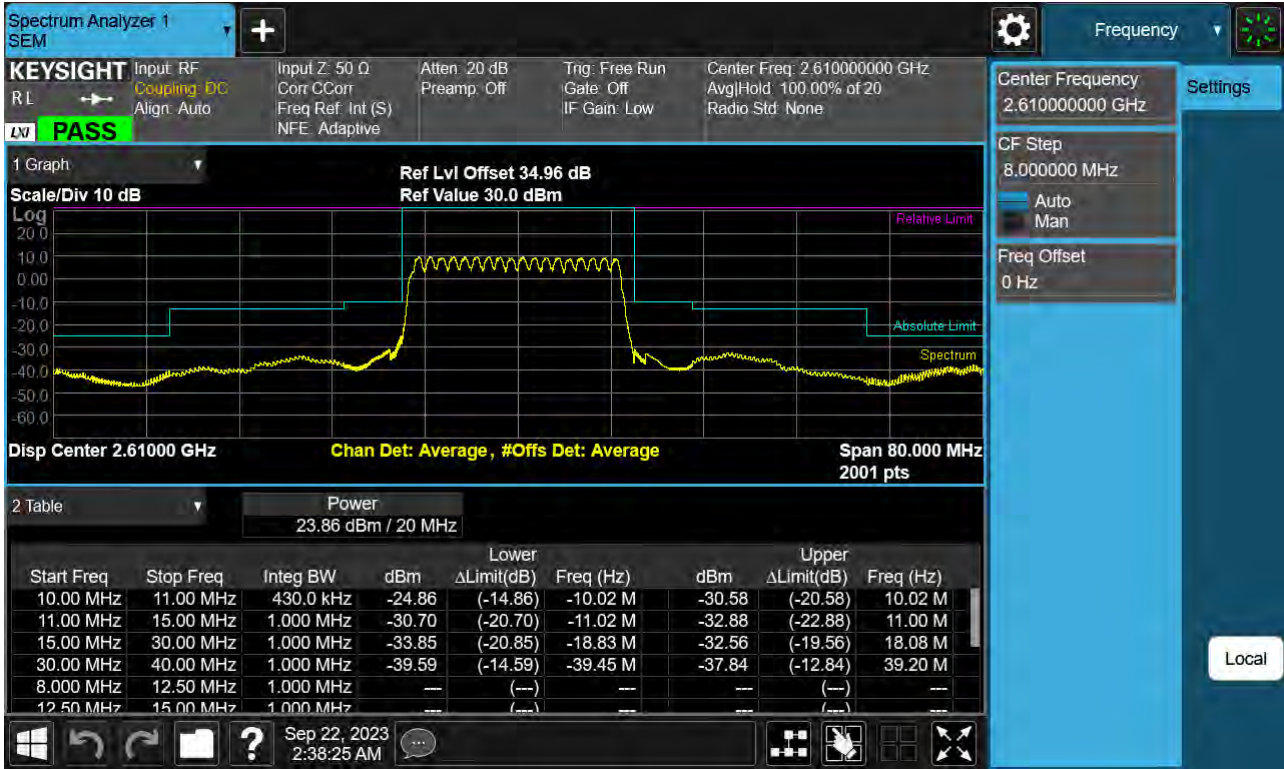
Sub6 n38. Mid Channel Edge Plot (20 MHz Ch.519000 BPSK)



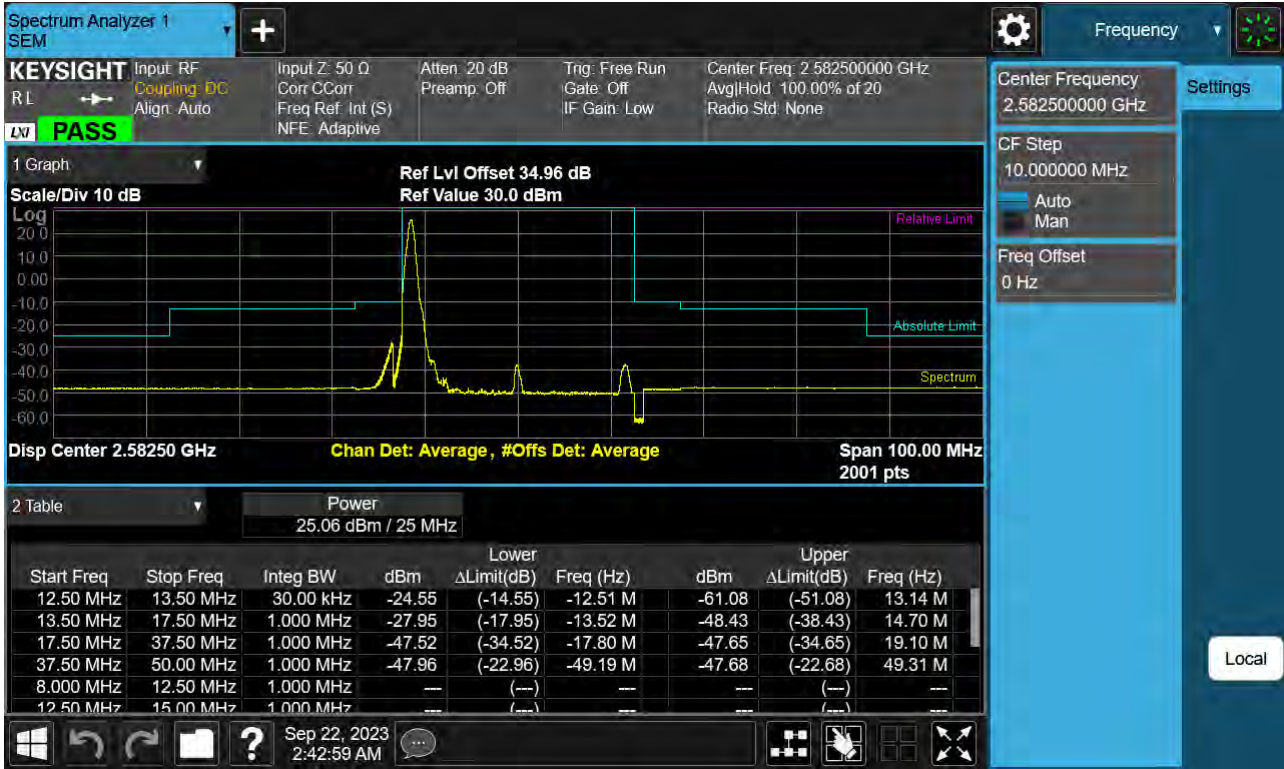
Sub6 n38. High Channel Edge Plot (20 MHz Ch.522000 BPSK RB 1)



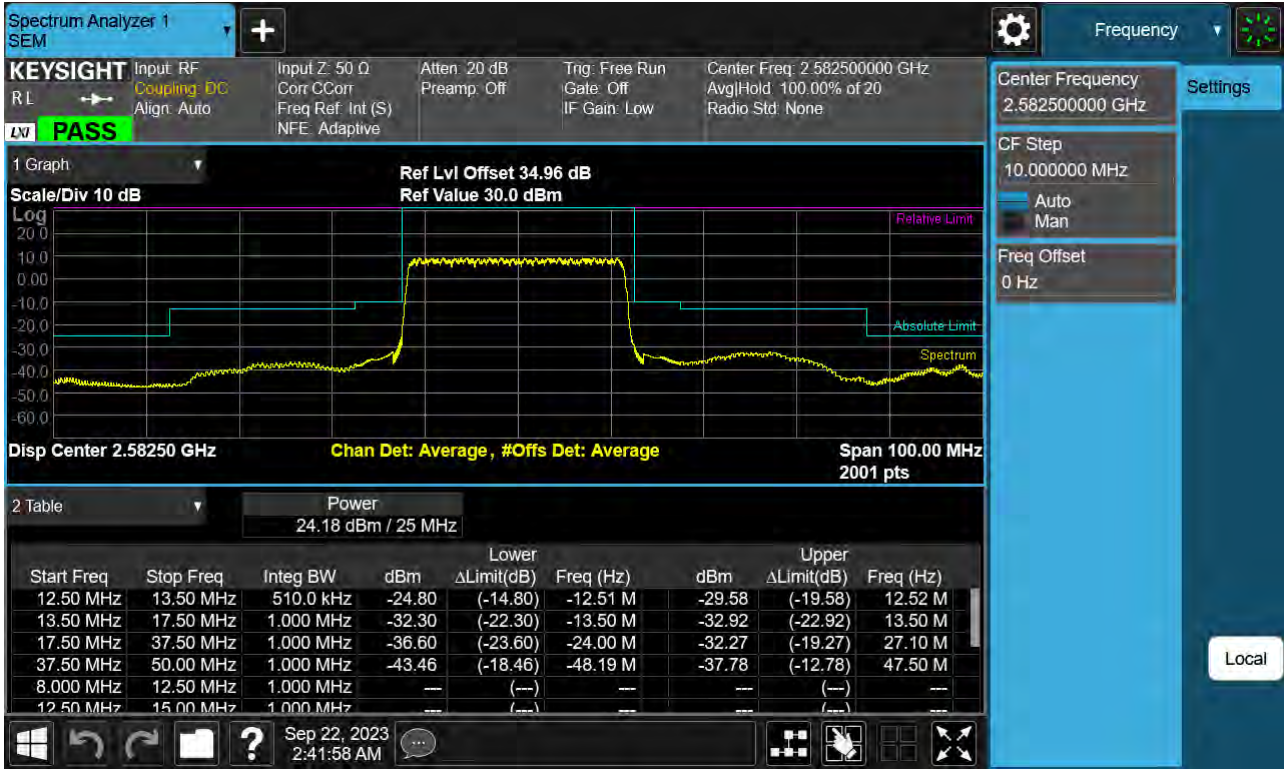
Sub6 n38. High Channel Edge Plot (20 MHz Ch.522000 BPSK)



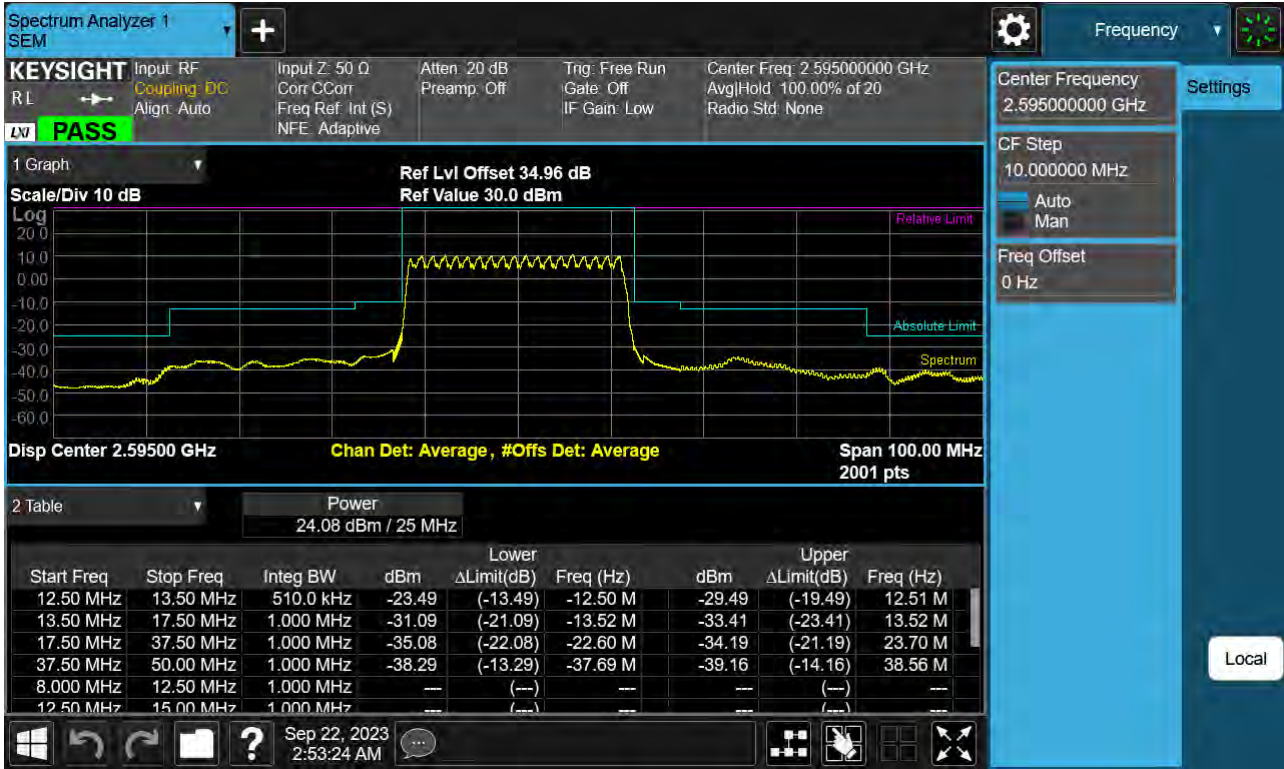
Sub6 n38. Low Channel Edge Plot (25 MHz Ch.516500 BPSK RB 1)



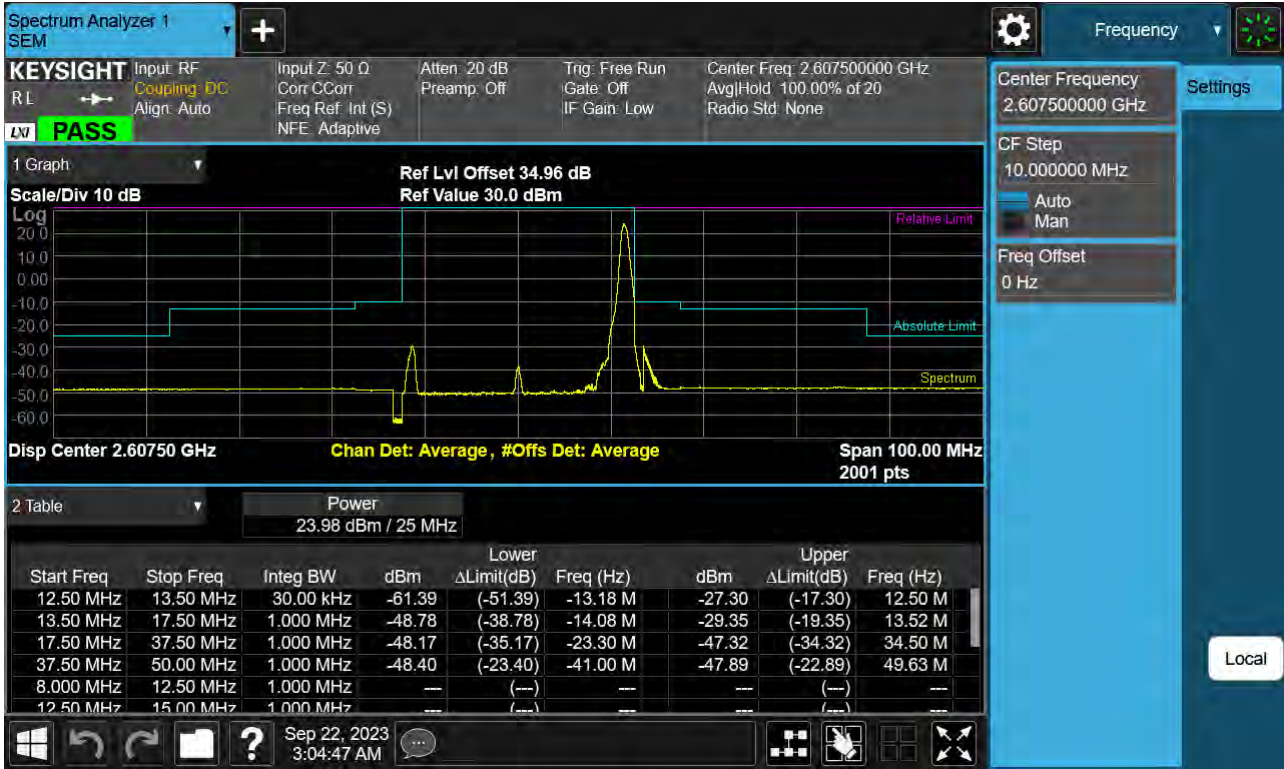
Sub6 n38. Low Channel Edge Plot (25 MHz Ch.516500 BPSK)



Sub6 n38. Mid Channel Edge Plot (25 MHz Ch.519000 BPSK)



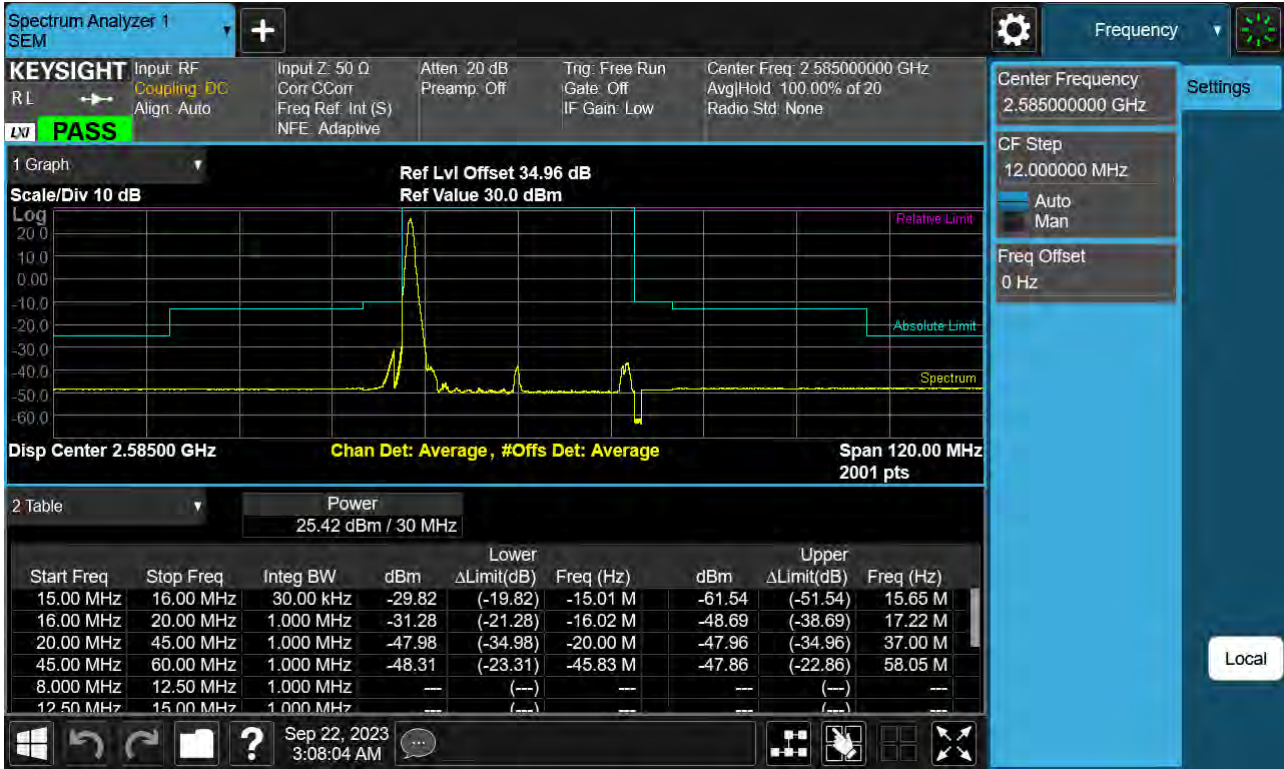
Sub6 n38. High Channel Edge Plot (25 MHz Ch.521500 BPSK RB 1)



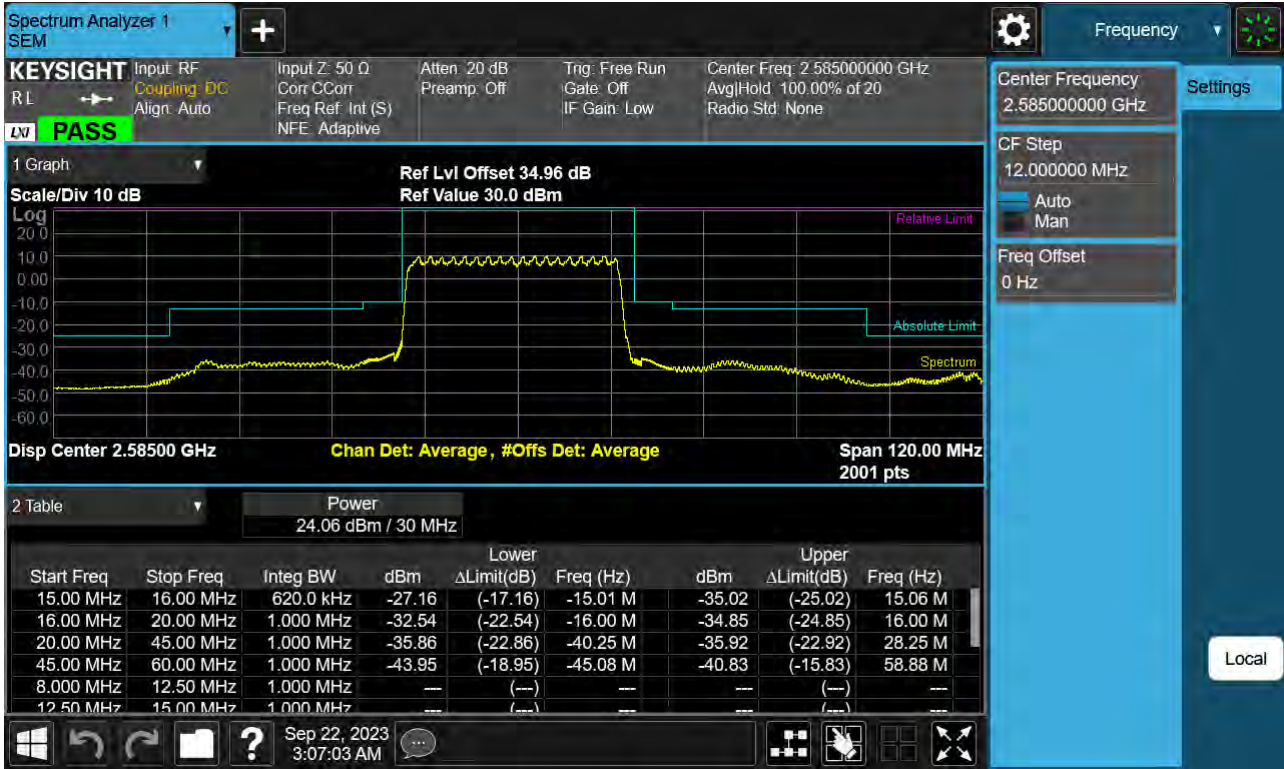
Sub6 n38. High Channel Edge Plot (25 MHz Ch.521500 BPSK)



Sub6 n38. Low Channel Edge Plot (30 MHz Ch.517000 BPSK RB 1)



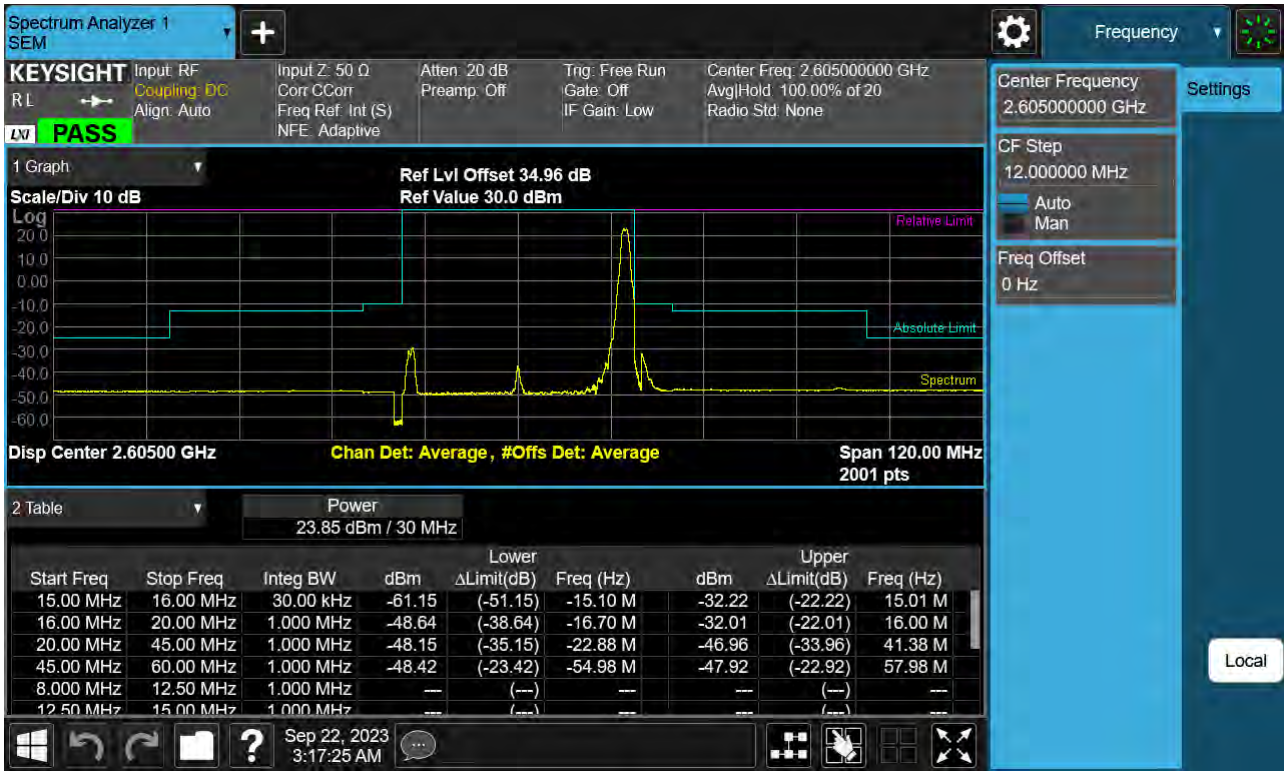
Sub6 n38. Low Channel Edge Plot (30 MHz Ch.517000 BPSK)



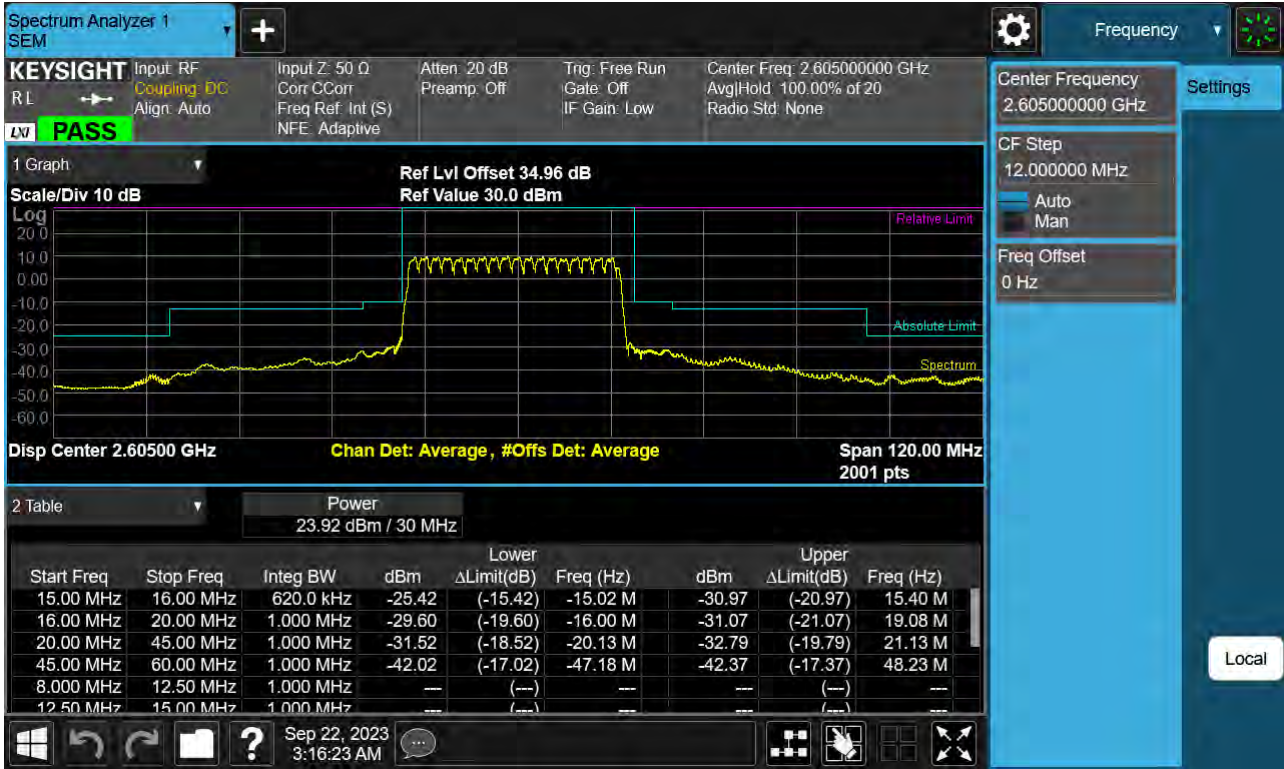
Sub6 n38. Mid Channel Edge Plot (30 MHz Ch.519000 BPSK)



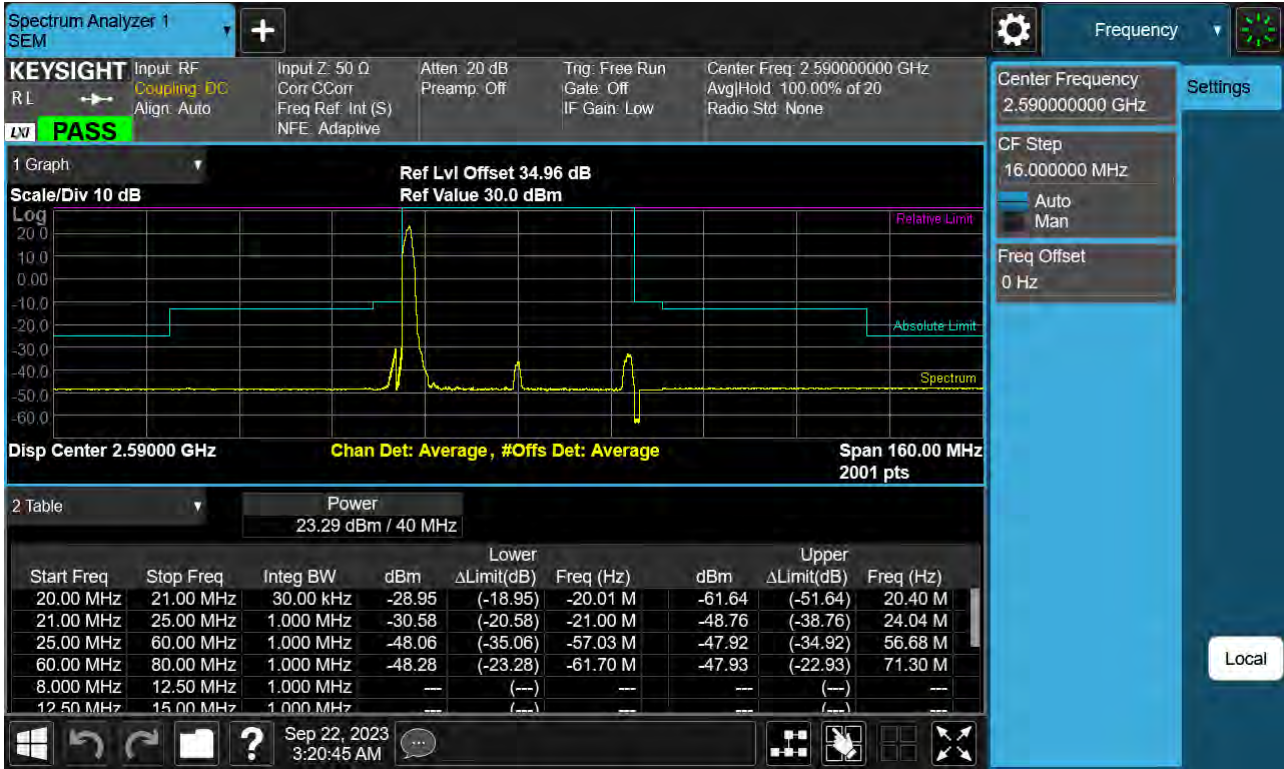
Sub6 n38. High Channel Edge Plot (30 MHz Ch.521000 BPSK RB 1)



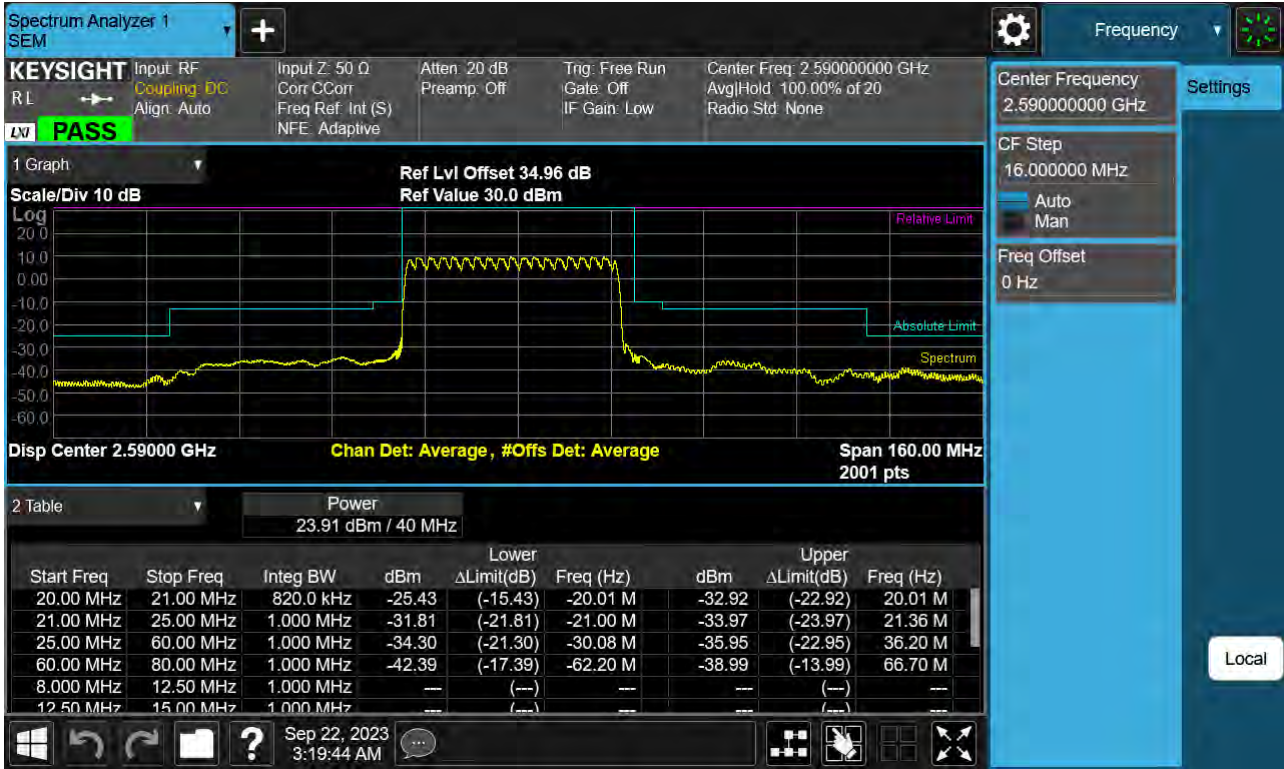
Sub6 n38. High Channel Edge Plot (30 MHz Ch.521000 BPSK)



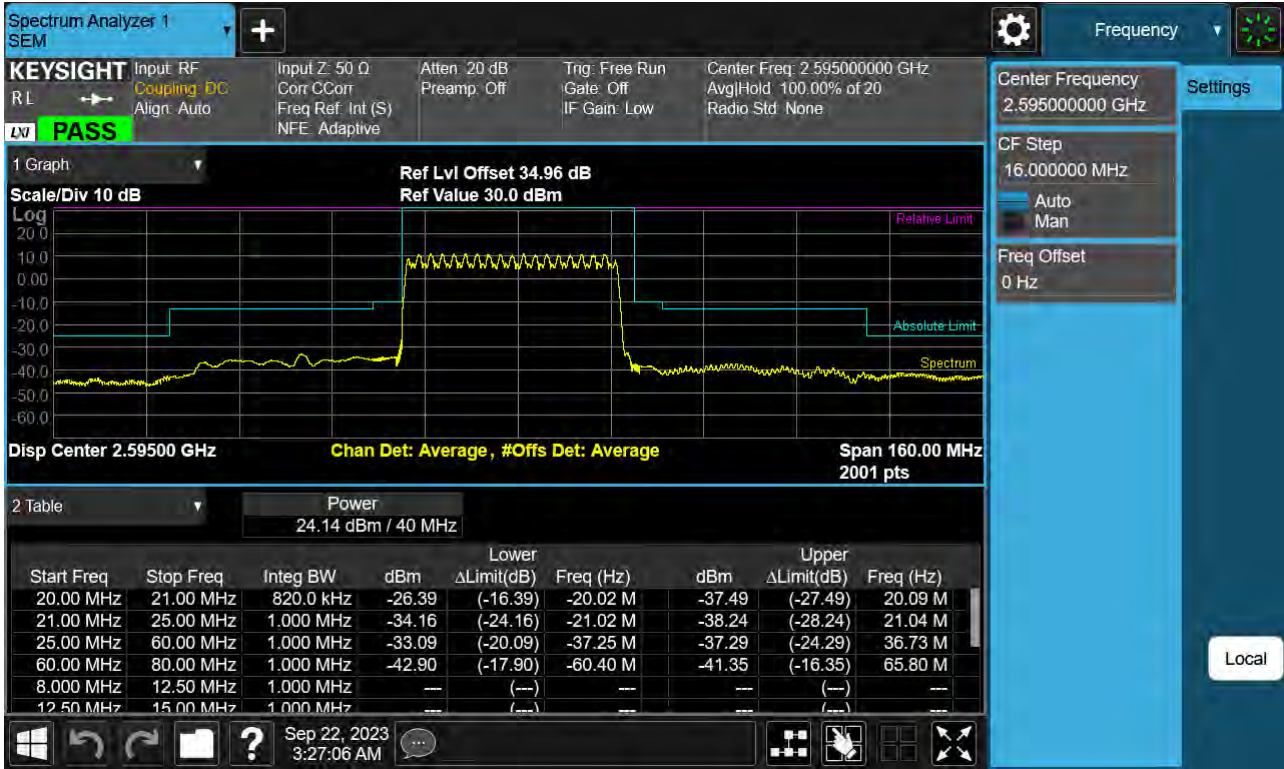
Sub6 n38. Low Channel Edge Plot (40 MHz Ch.518000 BPSK RB 1)



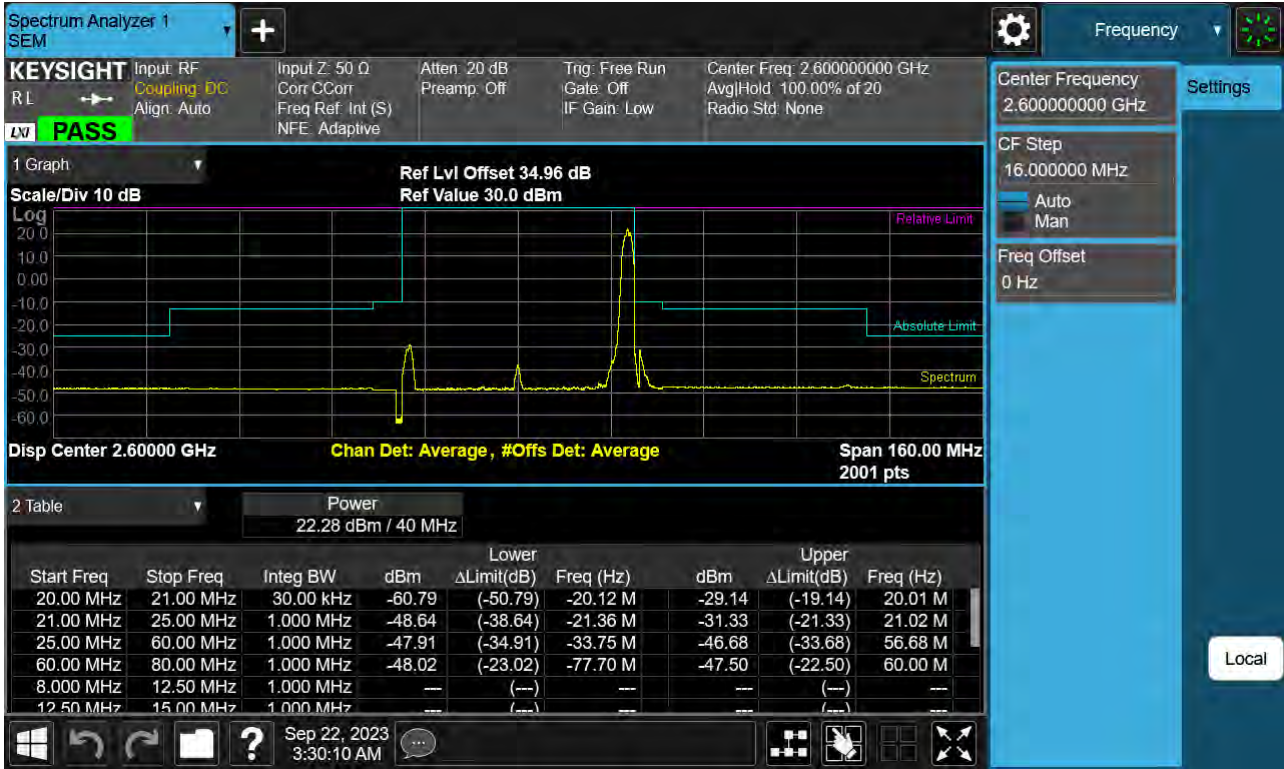
Sub6 n38. Low Channel Edge Plot (40 MHz Ch.518000 BPSK)



Sub6 n38. Mid Channel Edge Plot (40 MHz Ch.519000 BPSK)



Sub6 n38. High Channel Edge Plot (40 MHz Ch.520000 BPSK RB 1)



Sub6 n38. High Channel Edge Plot (40 MHz Ch.520000 BPSK)

