

TEST REPORT

FCC Sub6 n66 Test for SM-S931B/DS
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2410-FC059

DATE OF ISSUE
October 29, 2024

Tested by
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TEST REPORT

REPORT NO.

HCT-RF-2410-FC059

DATE OF ISSUE

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Additional Model

SM-S931B

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

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

Product Name

Mobile Phone

Model Name

SM-S931B/DS

Date of Test

August 21, 2024 ~ October 28, 2024

FCC ID

A3LSMS931B

Location of Test☒ Permanent Testing Lab ☐ On Site Testing

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

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

Test Standard Used

FCC Rule Part : § 27

Test Results

PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	October 29, 2024	Initial Release

Notice

Content

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

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

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

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

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

Information provided by the applicant is marked **.

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

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

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

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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:	A3LSMS931B
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§ 27
EUT Type:	Mobile phone
Model(s):	SM-S931B/DS
Additional Model(s)	SM-S931B
SCS(kHz):	15
Bandwidth(MHz):	5, 10, 15, 20, 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:	1712.5 MHz – 1777.5 MHz (Sub6 n66(5 MHz)) 1715.0 MHz – 1775.0 MHz (Sub6 n66(10 MHz)) 1717.5 MHz – 1772.5 MHz (Sub6 n66(15 MHz)) 1720.0 MHz – 1770.0 MHz (Sub6 n66(20 MHz)) 1725.0 MHz – 1765.0 MHz (Sub6 n66(30 MHz)) 1730.0 MHz – 1760.0 MHz (Sub6 n66(40 MHz))
Date(s) of Tests:	August 21, 2024 ~ October 28, 2024
Serial number:	Radiated : R3CX80V3P0J Conducted : R3CX80PTCRA

1.1. MAXIMUM OUTPUT POWER

Main1

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n66 (5)	1712.5 – 1777.5	4M51G7D	PI/2 BPSK	0.220	23.43
		4M51G7D	QPSK	0.218	23.38
		4M50W7D	16QAM	0.177	22.48
		4M52W7D	64QAM	0.125	20.97
		4M50W7D	256QAM	0.070	18.45
Sub6 n66 (10)	1715.0 – 1775.0	8M98G7D	PI/2 BPSK	0.241	23.82
		8M98G7D	QPSK	0.236	23.73
		8M96W7D	16QAM	0.182	22.61
		9M02W7D	64QAM	0.133	21.25
		9M03W7D	256QAM	0.073	18.61
Sub6 n66 (15)	1717.5 – 1772.5	13M4G7D	PI/2 BPSK	0.240	23.81
		13M5G7D	QPSK	0.239	23.79
		13M4W7D	16QAM	0.186	22.70
		13M5W7D	64QAM	0.133	21.23
		13M5W7D	256QAM	0.073	18.62
Sub6 n66 (20)	1720.0 – 1770.0	18M0G7D	PI/2 BPSK	0.239	23.78
		18M0G7D	QPSK	0.234	23.69
		17M9W7D	16QAM	0.188	22.75
		17M9W7D	64QAM	0.133	21.25
		17M9W7D	256QAM	0.075	18.73
Sub6 n66 (30)	1725.0 – 1765.0	28M7G7D	PI/2 BPSK	0.248	23.94
		28M7G7D	QPSK	0.242	23.83
		28M6W7D	16QAM	0.190	22.79
		28M7W7D	64QAM	0.138	21.39
		28M6W7D	256QAM	0.077	18.87
Sub6 n66 (40)	1730.0 – 1760.0	38M7G7D	PI/2 BPSK	0.254	24.05
		38M7G7D	QPSK	0.249	23.96
		38M6W7D	16QAM	0.194	22.87
		38M7W7D	64QAM	0.142	21.52
		38M8W7D	256QAM	0.077	18.84

Sub2

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n66 (5)	1712.5 – 1777.5	4M50G7D	PI/2 BPSK	0.109	20.38
		4M51G7D	QPSK	0.107	20.29
		4M51W7D	16QAM	0.085	19.30
		4M56W7D	64QAM	0.058	17.67
		4M53W7D	256QAM	0.033	15.24
Sub6 n66 (10)	1715.0 – 1775.0	8M94G7D	PI/2 BPSK	0.109	20.38
		9M00G7D	QPSK	0.106	20.25
		8M96W7D	16QAM	0.081	19.11
		8M98W7D	64QAM	0.061	17.82
		8M95W7D	256QAM	0.035	15.38
Sub6 n66 (15)	1717.5 – 1772.5	13M5G7D	PI/2 BPSK	0.111	20.47
		13M5G7D	QPSK	0.110	20.43
		13M4W7D	16QAM	0.085	19.31
		13M5W7D	64QAM	0.063	17.96
		13M5W7D	256QAM	0.035	15.48
Sub6 n66 (20)	1720.0 – 1770.0	17M9G7D	PI/2 BPSK	0.115	20.59
		17M9G7D	QPSK	0.112	20.51
		18M0W7D	16QAM	0.088	19.43
		17M9W7D	64QAM	0.061	17.85
		17M9W7D	256QAM	0.037	15.66
Sub6 n66 (30)	1725.0 – 1765.0	28M6G7D	PI/2 BPSK	0.122	20.86
		28M7G7D	QPSK	0.121	20.82
		28M7W7D	16QAM	0.093	19.67
		28M5W7D	64QAM	0.067	18.24
		28M6W7D	256QAM	0.040	15.97
Sub6 n66 (40)	1730.0 – 1760.0	38M6G7D	PI/2 BPSK	0.121	20.84
		38M6G7D	QPSK	0.119	20.74
		38M6W7D	16QAM	0.097	19.86
		38M6W7D	64QAM	0.071	18.50
		38M6W7D	256QAM	0.038	15.77

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

The EUT was a Mobile Phone with GSM/GPRS/EGPRS/UMTS and LTE, Sub 6.
It also supports IEEE 802.11 a/b/g/n/ac/ax/be (20/40/80/160/320 MHz), Bluetooth(iPA, ePA), BT LE(iPA, ePA), NFC, WPT, WIFI 6E

2.2. MEASURING INSTRUMENT CALIBRATION

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

2.3. TEST FACILITY

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

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

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

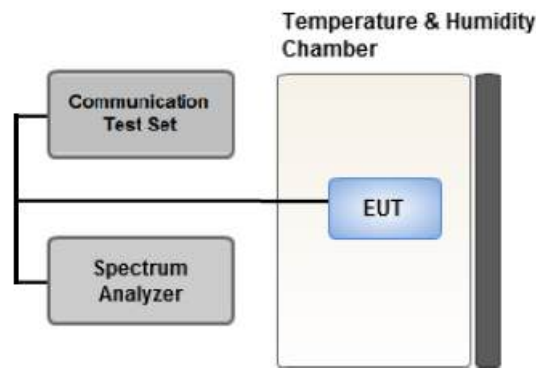
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

Where: P_g is the generator output power into the substitution antenna.

If the fundamental frequency is below 1 GHz, RF output power has been converted to EIRP.

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

3.4 PEAK- TO- AVERAGE RATIO



Test setup

① CCDF Procedure for PAPR

Test Settings

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Set the measurement interval as follows:
 - for continuous transmissions, set to 1 ms,
 - or burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
4. Record the maximum PAPR level associated with a probability of 0.1 %.

② Alternate Procedure for PAPR

Use one of the procedures presented in 5.2(ANSI C63.26-2015) to measure the total peak power and record as P_{Pk} .

Use one of the applicable procedures presented 5.2(ANSI C63.26-2015) to measure the total average power and record as P_{Avg} . Determine the P.A.R. from:

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

Test Settings(Peak Power)

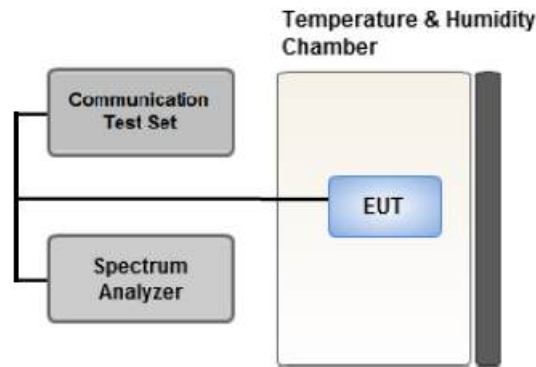
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

1. Set the RBW $\geq$ OBW.
2. Set VBW $\geq 3 \times$ RBW.
3. Set span $\geq 2 \times$ OBW.
4. Sweep time $\geq 10 \times$ (number of points in sweep) $\times$ (transmission symbol period).
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the peak amplitude level.

Test Settings(Average Power)

1. Set span to $2 \times$ to $3 \times$ the OBW.
2. Set RBW $\geq$ OBW.
3. Set VBW $\geq 3 \times$ RBW.
4. Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
5. Sweep time:
Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$ for single sweep (automation-compatible) measurement. The transmission period is the (on + off) time.
6. Detector = power averaging (rms).
7. Set sweep trigger to "free run."
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. (To accurately determine the average power over the on and off period of the transmitter, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.)
9. Use the peak marker function to determine the maximum amplitude level.
10. Add $[10 \log (1/\text{duty cycle})]$ to the measured maximum power level to compute the average power during continuous transmission. For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is a constant 25 %.

3.5 OCCUPIED BANDWIDTH.



Test setup

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

The EUT makes a call to the communication simulator.

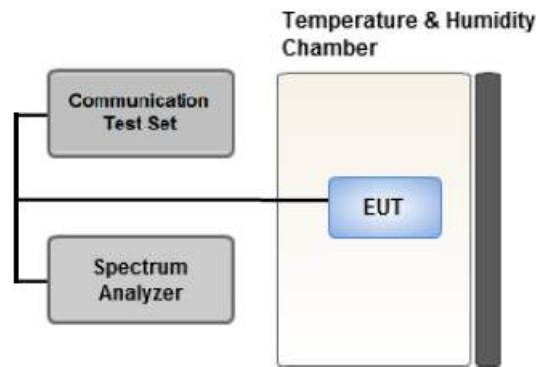
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

Test Settings

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

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

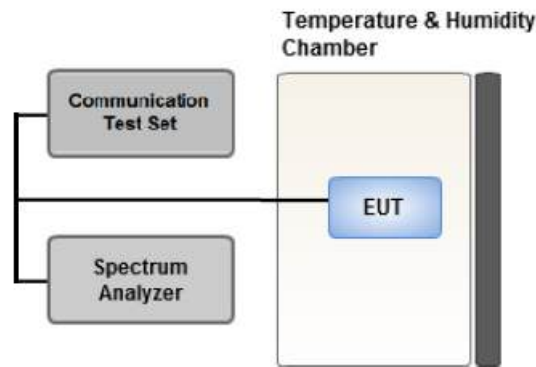
Test Overview

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

Test Settings

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

3.7 BAND EDGE



Test setup

Test Overview

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

Test Settings

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

Test Notes

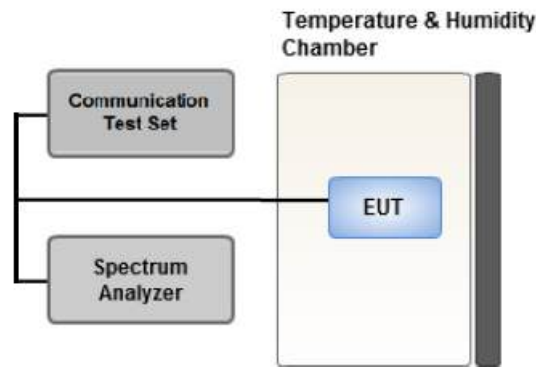
According to FCC 22.917, 24.238, 27.53 specified that power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block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

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

The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

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

The frequency stability of the transmitter is measured by:

1. Temperature:

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

2. Primary Supply Voltage:

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

Test Settings

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

3.9 WORST CASE(RADIATED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA. SA
Worst case: SA
Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)
Worst case : Stand alone
- All simultaneous transmission scenarios of operation were investigated, and the test results showed no additional significant emissions relative to the least restrictive limit were observed.
Therefore, only the worst case(stand-alone) results were reported.
- Radiated Spurious emissions are measured while operating in EN-DC mode with Sub 6 NR carrier as well as an LTE carrier (anchor).
All EN-DC mode of operation (=anchor) were investigated and the test results were measured No Peak Found.
The test results which are attenuated more than 20 dB below the permissible value, so it was not reported.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.
- In the case of radiated spurious emissions, all bandwidth of operation was investigated and the worst case bandwidth results are reported. (Worst case : 40 MHz(Main1), 30 MHz(Sub2))
- SM-S931B/DS & additional models were tested and the worst case results are reported.
(Worst case : SM-S931B/DS)

[Main1 Worst case]

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

[Sub2 Worst case]

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

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
(Worst case: PI/2 BPSK)
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA
Worst case: SA
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.
- SM-S931B/DS & additional models were tested and the worst case results are reported.
(Worst case : SM-S931B/DS)

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth, Peak-To-Average Ratio	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	5, 10, 15, 20, 30, 40	Mid	Full RB	0
Band Edge	PI/2 BPSK	5	Low	1	0
			High	1	24
		10	Low	1	0
			High	1	51
		15	Low	1	0
			High	1	78
		20	Low	1	0
			High	1	105
		30	Low	1	0
			High	1	159
		40	Low	1	0
			High	1	215
		5, 10, 15, 20, 30, 40	Low, High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	5, 10, 15, 20, 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	03/10/2026	Biennial
Precision Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	02289	02/14/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	9120D-1299	04/27/2025	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	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	05/14/2025	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/14/2025	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/14/2025	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/14/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/17/2024	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/26/2025	Annual
DC Power Supply	E3632A	Hewlett Packard	MY40004427	08/22/2025	Annual
Power Splitter(DC~26.5 GHz)	11667B	Hewlett Packard	11275	02/29/2025	Annual
Chamber	SU-642	ESPEC	93008124	02/19/2025	Annual
Signal Analyzer(10 Hz~26.5 GHz)	N9020A	Agilent	MY51110063	04/04/2025	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/17/2025	Annual
Spectrum Analyzer(10 Hz~40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/13/2025	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/16/2025	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/14/2025	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/17/2025	Annual
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/10/2025	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.,	-	-	-

Note:

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

5. MEASUREMENT UNCERTAINTY

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

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

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

6. SUMMARY OF TEST RESULTS

6.1 Test Condition: Conducted Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Occupied Bandwidth	§ 2.1049	N/A	PASS
Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§ 2.1051, § 27.53(h)	< 43 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions	PASS
Conducted Output Power	§ 2.1046	N/A	<u>See Note1</u>
Peak- to- Average Ratio	§ 27.50(d)(5)	< 13 dB	PASS
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(d)(4)	< 1 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 27.53(h)	< 43 + 10log10 (P[Watts]) for all out-of band emissions	PASS

Note:

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

7. SAMPLE CALCULATION

7.1 ERP Sample Calculation

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

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

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

7.2 EIRP Sample Calculation

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

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

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

7.3. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

8. TEST DATA (Main1)

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1712.5	Sub6 n66/ 5 MHz [15 kHz]	PI/2 BPSK	-17.88	15.20	10.12	2.06	V	< 1.00	0.212	23.26	1	12
		QPSK	-17.89	15.19	10.12	2.06	V		0.211	23.25		
		16-QAM	-18.93	14.15	10.12	2.06	V		0.166	22.21		
		64-QAM	-20.36	12.72	10.12	2.06	V		0.120	20.78		
		256-QAM	-22.94	10.14	10.12	2.06	V		0.066	18.20		
1745.0		PI/2 BPSK	-18.30	15.07	10.43	2.07	V		0.220	23.43	1	1
		QPSK	-18.35	15.02	10.43	2.07	V		0.218	23.38		
		16-QAM	-19.25	14.12	10.43	2.07	V		0.177	22.48		
		64-QAM	-20.76	12.61	10.43	2.07	V		0.125	20.97		
		256-QAM	-23.28	10.09	10.43	2.07	V		0.070	18.45		
1777.5		PI/2 BPSK	-18.83	14.53	10.50	2.09	V		0.197	22.94	1	12
		QPSK	-18.85	14.51	10.50	2.09	V		0.196	22.92		
		16-QAM	-19.95	13.41	10.50	2.09	V		0.152	21.82		
		64-QAM	-21.34	12.02	10.50	2.09	V		0.110	20.43		
		256-QAM	-23.96	9.40	10.50	2.09	V		0.060	17.81		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1715.0	Sub6 n66/ 10 MHz [15 kHz]	PI/2 BPSK	-17.80	15.28	10.12	2.06	V	< 1.00	0.216	23.34	1	26
		QPSK	-17.82	15.26	10.12	2.06	V		0.215	23.32		
		16-QAM	-18.90	14.18	10.12	2.06	V		0.168	22.24		
		64-QAM	-20.38	12.70	10.12	2.06	V		0.119	20.76		
		256-QAM	-22.89	10.19	10.12	2.06	V		0.067	18.25		
1745.0		PI/2 BPSK	-17.91	15.46	10.43	2.07	V		0.241	23.82	1	1
		QPSK	-18.00	15.37	10.43	2.07	V		0.236	23.73		
		16-QAM	-19.12	14.25	10.43	2.07	V		0.182	22.61		
		64-QAM	-20.48	12.89	10.43	2.07	V		0.133	21.25		
		256-QAM	-23.12	10.25	10.43	2.07	V		0.073	18.61		
1775.0		PI/2 BPSK	-18.74	14.66	10.49	2.09	V		0.202	23.06	1	1
		QPSK	-18.80	14.60	10.49	2.09	V		0.200	23.00		
		16-QAM	-19.83	13.57	10.49	2.09	V		0.157	21.97		
		64-QAM	-21.30	12.10	10.49	2.09	V		0.112	20.50		
		256-QAM	-23.88	9.52	10.49	2.09	V		0.062	17.92		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1717.5	Sub6 n66/ 15 MHz [15 kHz]	PI/2 BPSK	-17.68	15.48	10.18	2.06	V	< 1.00	0.229	23.60	1	1
		QPSK	-17.70	15.46	10.18	2.06	V		0.228	23.58		
		16-QAM	-18.72	14.44	10.18	2.06	V		0.180	22.56		
		64-QAM	-20.25	12.91	10.18	2.06	V		0.127	21.03		
		256-QAM	-22.76	10.40	10.18	2.06	V		0.071	18.52		
1745.0		PI/2 BPSK	-17.92	15.45	10.43	2.07	V		0.240	23.81	1	1
		QPSK	-17.94	15.43	10.43	2.07	V		0.239	23.79		
		16-QAM	-19.03	14.34	10.43	2.07	V		0.186	22.70		
		64-QAM	-20.50	12.87	10.43	2.07	V		0.133	21.23		
		256-QAM	-23.11	10.26	10.43	2.07	V		0.073	18.62		
1772.5		PI/2 BPSK	-18.80	14.60	10.49	2.09	V		0.200	23.00	1	1
		QPSK	-18.82	14.58	10.49	2.09	V		0.199	22.98		
		16-QAM	-19.84	13.56	10.49	2.09	V		0.157	21.96		
		64-QAM	-21.27	12.13	10.49	2.09	V		0.113	20.53		
		256-QAM	-23.92	9.48	10.49	2.09	V		0.061	17.88		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1720.0	Sub6 n66/ 20 MHz [15 kHz]	PI/2 BPSK	-17.80	15.36	10.18	2.06	V	< 1.00	0.223	23.48	1	1
		QPSK	-17.82	15.34	10.18	2.06	V		0.222	23.46		
		16-QAM	-18.93	14.23	10.18	2.06	V		0.172	22.35		
		64-QAM	-20.32	12.84	10.18	2.06	V		0.125	20.96		
		256-QAM	-22.93	10.23	10.18	2.06	V		0.068	18.35		
1745.0		PI/2 BPSK	-17.95	15.42	10.43	2.07	V		0.239	23.78	1	1
		QPSK	-18.04	15.33	10.43	2.07	V		0.234	23.69		
		16-QAM	-18.98	14.39	10.43	2.07	V		0.188	22.75		
		64-QAM	-20.48	12.89	10.43	2.07	V		0.133	21.25		
		256-QAM	-23.00	10.37	10.43	2.07	V		0.075	18.73		
1770.0		PI/2 BPSK	-18.86	14.56	10.49	2.09	V		0.198	22.96	1	1
		QPSK	-18.94	14.48	10.49	2.09	V		0.194	22.88		
		16-QAM	-19.94	13.48	10.49	2.09	V		0.154	21.88		
		64-QAM	-21.31	12.11	10.49	2.09	V		0.113	20.51		
		256-QAM	-23.95	9.47	10.49	2.09	V		0.061	17.87		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1725.0	Sub6 n66/ 30 MHz [15 kHz]	PI/2 BPSK	-17.50	15.78	10.23	2.07	V	< 1.00	0.248	23.94	1	1
		QPSK	-17.61	15.67	10.23	2.07	V		0.242	23.83		
		16-QAM	-18.65	14.63	10.23	2.07	V		0.190	22.79		
		64-QAM	-20.05	13.23	10.23	2.07	V		0.138	21.39		
		256-QAM	-22.57	10.71	10.23	2.07	V		0.077	18.87		
1745.0		PI/2 BPSK	-17.89	15.48	10.43	2.07	V		0.242	23.84	1	1
		QPSK	-17.95	15.42	10.43	2.07	V		0.239	23.78		
		16-QAM	-18.99	14.38	10.43	2.07	V		0.188	22.74		
		64-QAM	-20.39	12.98	10.43	2.07	V		0.136	21.34		
		256-QAM	-23.02	10.35	10.43	2.07	V		0.074	18.71		
1765.0		PI/2 BPSK	-18.17	15.16	10.48	2.09	V		0.227	23.55	1	1
		QPSK	-18.22	15.11	10.48	2.09	V		0.224	23.50		
		16-QAM	-19.21	14.12	10.48	2.09	V		0.178	22.51		
		64-QAM	-20.74	12.59	10.48	2.09	V		0.125	20.98		
		256-QAM	-23.24	10.09	10.48	2.09	V		0.071	18.48		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1730.0	Sub6 n66/ 40 MHz [15 kHz]	PI/2 BPSK	-17.56	15.84	10.29	2.08	V	< 1.00	0.254	24.05	1	1
		QPSK	-17.72	15.68	10.29	2.08	V		0.245	23.89		
		16-QAM	-18.76	14.64	10.29	2.08	V		0.193	22.85		
		64-QAM	-20.17	13.23	10.29	2.08	V		0.139	21.44		
		256-QAM	-22.77	10.63	10.29	2.08	V		0.077	18.84		
1745.0		PI/2 BPSK	-17.75	15.62	10.43	2.07	V		0.250	23.98	1	1
		QPSK	-17.77	15.60	10.43	2.07	V		0.249	23.96		
		16-QAM	-18.86	14.51	10.43	2.07	V		0.194	22.87		
		64-QAM	-20.21	13.16	10.43	2.07	V		0.142	21.52		
		256-QAM	-22.95	10.42	10.43	2.07	V		0.076	18.78		
1760.0		PI/2 BPSK	-17.76	15.46	10.48	2.09	V		0.243	23.85	1	1
		QPSK	-17.80	15.42	10.48	2.09	V		0.240	23.81		
		16-QAM	-18.94	14.28	10.48	2.09	V		0.185	22.67		
		64-QAM	-20.22	13.00	10.48	2.09	V		0.138	21.39		
		256-QAM	-22.92	10.30	10.48	2.09	V		0.074	18.69		

8.2 RADIATED SPURIOUS EMISSIONS

■ NR Band:	<u>N66</u>
■ Bandwidth:	<u>40 MHz</u>
■ Modulation:	<u>PI/2 BPSK</u>
■ Distance:	<u>3 meters</u>
■ SCS:	<u>15 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
346000 (1730.0)	3 460.00	-60.02	12.00	-61.24	3.04	V	-52.28	-13.00	1	1
	5 190.00	-61.60	11.63	-55.56	3.80	V	-47.73	-13.00		
	6 920.00	-63.98	11.16	-51.78	4.39	V	-45.01	-13.00		
349000 (1745.0)	3 490.00	-61.12	12.04	-61.86	3.04	V	-52.86	-13.00	1	1
	5 235.00	-63.45	11.76	-58.12	3.78	V	-50.14	-13.00		
	6 980.00	-64.45	11.16	-51.67	4.48	V	-44.99	-13.00		
352000 (1760.0)	3 520.00	-60.69	12.04	-62.41	3.04	V	-53.41	-13.00	1	1
	5 280.00	-64.35	11.88	-59.05	3.80	V	-50.97	-13.00		
	7 040.00	-64.55	11.01	-50.95	4.45	V	-44.39	-13.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n66	5 MHz	1745.0	BPSK	25	0	4.39
			QPSK			5.50
			16-QAM			6.20
			64-QAM			6.71
			256-QAM			6.32
	10 MHz		BPSK	50		4.35
			QPSK			5.66
			16-QAM			6.31
			64-QAM			6.60
			256-QAM			6.68
	15 MHz		BPSK	75		4.43
			QPSK			5.59
			16-QAM			6.36
			64-QAM			6.76
			256-QAM			6.60
	20 MHz		BPSK	100		4.43
			QPSK			5.53
			16-QAM			6.49
			64-QAM			6.71
			256-QAM			6.75
	30 MHz		BPSK	160		4.24
			QPSK			5.58
			16-QAM			6.35
			64-QAM			6.63
			256-QAM			6.59
	40 MHz		BPSK	216		4.09
			QPSK			5.48
			16-QAM			6.41
			64-QAM			6.62
			256-QAM			6.63

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 59 ~ 88.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n66	5 MHz	1745.0	BPSK	25	0	4.5106
			QPSK			4.5063
			16-QAM			4.4989
			64-QAM			4.5204
			256-QAM			4.4985
	10 MHz		BPSK	50		8.9809
			QPSK			8.9781
			16-QAM			8.9548
			64-QAM			9.0172
			256-QAM			9.0260
	15 MHz		BPSK	75		13.429
			QPSK			13.455
			16-QAM			13.406
			64-QAM			13.474
			256-QAM			13.469
	20 MHz		BPSK	100		17.950
			QPSK			17.963
			16-QAM			17.944
			64-QAM			17.876
			256-QAM			17.917
	30 MHz		BPSK	160		28.661
			QPSK			28.650
			16-QAM			28.609
			64-QAM			28.659
			256-QAM			28.618
	40 MHz		BPSK	216		38.690
			QPSK			38.665
			16-QAM			38.623
			64-QAM			38.657
			256-QAM			38.761

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 89 ~ 118.

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 n66	5	1712.5	8.2906	30.815	-69.894	-39.079	-13.00
		1745.0	9.2223	30.815	-70.627	-39.812	
		1777.5	3.7742	30.200	-69.669	-39.469	
	10	1715.0	3.8051	30.200	-70.445	-40.245	
		1745.0	9.1331	30.815	-70.467	-39.652	
		1775.0	3.7952	30.200	-70.504	-40.304	
	15	1717.5	5.2149	30.815	-70.175	-39.360	
		1745.0	7.4716	30.815	-70.802	-39.987	
		1772.5	6.0230	30.815	-70.450	-39.635	
	20	1720.0	3.7937	30.200	-70.086	-39.886	
		1745.0	3.7697	30.200	-70.130	-39.930	
		1770.0	9.6750	30.815	-69.511	-38.696	
	30	1725.0	8.6077	30.815	-70.118	-39.303	
		1745.0	8.8490	30.815	-71.149	-40.334	
		1765.0	3.8126	30.200	-69.322	-39.122	
	40	1730.0	8.2667	30.815	-70.561	-39.746	
		1745.0	9.0688	30.815	-70.824	-40.009	
		1760.0	8.6316	30.200	-70.302	-40.102	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 119 ~ 154.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

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

8.6 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 155 ~ 190.

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1712.5	100 %	+20(Ref)	1712 500 000	0.0	0.000 000	0.000
	100 %	-30	1712 499 999	-0.7	0.000 000	0.000
	100 %	-20	1712 499 999	-0.8	0.000 000	0.000
	100 %	-10	1712 499 999	-0.7	0.000 000	0.000
	100 %	0	1712 499 999	-0.6	0.000 000	0.000
	100 %	+10	1712 499 999	-0.9	0.000 000	-0.001
	100 %	+30	1712 500 001	0.8	0.000 000	0.000
	100 %	+40	1712 499 998	-1.7	0.000 000	-0.001
	100 %	+50	1712 499 998	-2.2	0.000 000	-0.001
	Batt. Endpoint	+20	1712 499 998	-2.2	0.000 000	-0.001
1777.5	100 %	+20(Ref)	1777 500 001	0.0	0.000 000	0.000
	100 %	-30	1777 500 002	0.4	0.000 000	0.000
	100 %	-20	1777 500 001	0.2	0.000 000	0.000
	100 %	-10	1777 500 001	0.2	0.000 000	0.000
	100 %	0	1777 500 001	-0.1	0.000 000	0.000
	100 %	+10	1777 500 001	-0.2	0.000 000	0.000
	100 %	+30	1777 500 001	0.1	0.000 000	0.000
	100 %	+40	1777 500 003	1.5	0.000 000	0.001
	100 %	+50	1777 500 002	1.2	0.000 000	0.001
	Batt. Endpoint	+20	1777 500 002	0.8	0.000 000	0.000

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1715.0	100 %	+20(Ref)	1715 000 001	0.0	0.000 000	0.000
	100 %	-30	1715 000 002	0.8	0.000 000	0.000
	100 %	-20	1715 000 002	0.8	0.000 000	0.000
	100 %	-10	1715 000 002	0.9	0.000 000	0.001
	100 %	0	1715 000 002	0.9	0.000 000	0.001
	100 %	+10	1715 000 001	0.5	0.000 000	0.000
	100 %	+30	1715 000 001	0.3	0.000 000	0.000
	100 %	+40	1715 000 002	0.6	0.000 000	0.000
	100 %	+50	1715 000 001	0.3	0.000 000	0.000
	Batt. Endpoint	+20	1715 000 000	-0.6	0.000 000	0.000
1775.0	100 %	+20(Ref)	1775 000 000	0.0	0.000 000	0.000
	100 %	-30	1774 999 999	-0.7	0.000 000	0.000
	100 %	-20	1775 000 001	1.6	0.000 000	0.001
	100 %	-10	1774 999 999	-0.9	0.000 000	0.000
	100 %	0	1775 000 000	0.6	0.000 000	0.000
	100 %	+10	1775 000 000	0.6	0.000 000	0.000
	100 %	+30	1775 000 000	0.1	0.000 000	0.000
	100 %	+40	1775 000 000	0.3	0.000 000	0.000
	100 %	+50	1775 000 000	0.8	0.000 000	0.000
	Batt. Endpoint	+20	1775 000 000	0.2	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	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1717.5	100 %	+20(Ref)	1717 500 002	0.0	0.000 000	0.000
	100 %	-30	1717 500 003	1.5	0.000 000	0.001
	100 %	-20	1717 500 003	1.4	0.000 000	0.001
	100 %	-10	1717 500 003	1.4	0.000 000	0.001
	100 %	0	1717 500 003	1.4	0.000 000	0.001
	100 %	+10	1717 500 003	1.4	0.000 000	0.001
	100 %	+30	1717 500 003	1.6	0.000 000	0.001
	100 %	+40	1717 500 003	1.4	0.000 000	0.001
	100 %	+50	1717 500 003	1.5	0.000 000	0.001
	Batt. Endpoint	+20	1717 500 003	1.4	0.000 000	0.001
1772.5	100 %	+20(Ref)	1772 499 997	0.0	0.000 000	0.000
	100 %	-30	1772 499 996	-1.1	0.000 000	-0.001
	100 %	-20	1772 499 996	-1.1	0.000 000	-0.001
	100 %	-10	1772 499 995	-2.2	0.000 000	-0.001
	100 %	0	1772 499 996	-0.8	0.000 000	0.000
	100 %	+10	1772 499 996	-1.1	0.000 000	-0.001
	100 %	+30	1772 499 996	-1.3	0.000 000	-0.001
	100 %	+40	1772 499 992	-4.7	0.000 000	-0.003
	100 %	+50	1772 499 996	-0.6	0.000 000	0.000
	Batt. Endpoint	+20	1772 499 995	-2.0	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	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1720.0	100 %	+20(Ref)	1719 999 999	0.0	0.000 000	0.000
	100 %	-30	1720 000 000	0.3	0.000 000	0.000
	100 %	-20	1719 999 998	-1.1	0.000 000	-0.001
	100 %	-10	1719 999 998	-1.2	0.000 000	-0.001
	100 %	0	1719 999 998	-1.4	0.000 000	-0.001
	100 %	+10	1719 999 997	-2.3	0.000 000	-0.001
	100 %	+30	1719 999 998	-1.7	0.000 000	-0.001
	100 %	+40	1719 999 997	-2.4	0.000 000	-0.001
	100 %	+50	1719 999 997	-2.3	0.000 000	-0.001
	Batt. Endpoint	+20	1719 999 996	-3.2	0.000 000	-0.002
1770.0	100 %	+20(Ref)	1770 000 001	0.0	0.000 000	0.000
	100 %	-30	1770 000 004	3.9	0.000 000	0.002
	100 %	-20	1770 000 001	0.5	0.000 000	0.000
	100 %	-10	1770 000 001	0.0	0.000 000	0.000
	100 %	0	1770 000 001	0.1	0.000 000	0.000
	100 %	+10	1770 000 003	2.8	0.000 000	0.002
	100 %	+30	1770 000 001	0.9	0.000 000	0.000
	100 %	+40	1770 000 000	-0.4	0.000 000	0.000
	100 %	+50	1770 000 004	3.3	0.000 000	0.002
	Batt. Endpoint	+20	1770 000 003	2.8	0.000 000	0.002

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1725.0	100 %	+20(Ref)	1725 000 005	0.0	0.000 000	0.000
	100 %	-30	1725 000 013	8.3	0.000 000	0.005
	100 %	-20	1725 000 011	6.6	0.000 000	0.004
	100 %	-10	1725 000 012	6.9	0.000 000	0.004
	100 %	0	1725 000 010	5.6	0.000 000	0.003
	100 %	+10	1725 000 013	8.0	0.000 000	0.005
	100 %	+30	1725 000 012	7.1	0.000 000	0.004
	100 %	+40	1725 000 012	7.5	0.000 000	0.004
	100 %	+50	1725 000 011	6.4	0.000 000	0.004
	Batt. Endpoint	+20	1725 000 013	7.8	0.000 000	0.005
1765.0	100 %	+20(Ref)	1765 000 005	0.0	0.000 000	0.000
	100 %	-30	1765 000 009	4.7	0.000 000	0.003
	100 %	-20	1765 000 009	4.7	0.000 000	0.003
	100 %	-10	1765 000 009	4.7	0.000 000	0.003
	100 %	0	1765 000 009	4.9	0.000 000	0.003
	100 %	+10	1765 000 009	4.4	0.000 000	0.002
	100 %	+30	1765 000 009	4.4	0.000 000	0.003
	100 %	+40	1765 000 009	4.4	0.000 000	0.002
	100 %	+50	1765 000 009	4.8	0.000 000	0.003
	Batt. Endpoint	+20	1765 000 009	4.3	0.000 000	0.002

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1730.0	100 %	+20(Ref)	1730 000 006	0.0	0.000 000	0.000
	100 %	-30	1730 000 012	5.6	0.000 000	0.003
	100 %	-20	1730 000 012	5.9	0.000 000	0.003
	100 %	-10	1730 000 012	5.5	0.000 000	0.003
	100 %	0	1730 000 013	7.0	0.000 000	0.004
	100 %	+10	1730 000 015	8.5	0.000 000	0.005
	100 %	+30	1730 000 015	8.5	0.000 000	0.005
	100 %	+40	1730 000 012	6.1	0.000 000	0.004
	100 %	+50	1730 000 012	6.2	0.000 000	0.004
	Batt. Endpoint	+20	1730 000 012	5.9	0.000 000	0.003
1760.0	100 %	+20(Ref)	1760 000 006	0.0	0.000 000	0.000
	100 %	-30	1760 000 013	6.4	0.000 000	0.004
	100 %	-20	1760 000 013	7.2	0.000 000	0.004
	100 %	-10	1760 000 013	6.9	0.000 000	0.004
	100 %	0	1760 000 013	7.2	0.000 000	0.004
	100 %	+10	1760 000 014	7.5	0.000 000	0.004
	100 %	+30	1760 000 014	7.3	0.000 000	0.004
	100 %	+40	1760 000 014	7.4	0.000 000	0.004
	100 %	+50	1760 000 013	7.2	0.000 000	0.004
	Batt. Endpoint	+20	1760 000 014	7.7	0.000 000	0.004

9. TEST DATA (Sub2)

9.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1712.5	Sub6 n66/ 5 MHz [15 kHz]	PI/2 BPSK	-20.76	12.32	10.12	2.06	V	< 1.00	0.109	20.38	1	12
		QPSK	-20.85	12.23	10.12	2.06	V		0.107	20.29		
		16-QAM	-21.84	11.24	10.12	2.06	V		0.085	19.30		
		64-QAM	-23.47	9.61	10.12	2.06	V		0.058	17.67		
		256-QAM	-26.00	7.08	10.12	2.06	V		0.033	15.14		
1745.0		PI/2 BPSK	-21.84	11.53	10.43	2.07	V		0.098	19.89	1	1
		QPSK	-21.90	11.47	10.43	2.07	V		0.096	19.83		
		16-QAM	-22.83	10.54	10.43	2.07	V		0.078	18.90		
		64-QAM	-24.13	9.24	10.43	2.07	V		0.058	17.60		
		256-QAM	-26.49	6.88	10.43	2.07	V		0.033	15.24		
1777.5		PI/2 BPSK	-22.15	11.21	10.50	2.09	V		0.092	19.62	1	12
		QPSK	-22.17	11.19	10.50	2.09	V		0.091	19.60		
		16-QAM	-23.30	10.06	10.50	2.09	V		0.070	18.47		
		64-QAM	-24.72	8.64	10.50	2.09	V		0.051	17.05		
		256-QAM	-27.30	6.06	10.50	2.09	V		0.028	14.47		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1715.0		PI/2 BPSK	-20.76	12.32	10.12	2.06	V	< 1.00	0.109	20.38	1	26
		QPSK	-20.89	12.19	10.12	2.06	V		0.106	20.25		
		16-QAM	-22.03	11.05	10.12	2.06	V		0.081	19.11		
		64-QAM	-23.32	9.76	10.12	2.06	V		0.061	17.82		
		256-QAM	-25.78	7.30	10.12	2.06	V		0.034	15.36		
1745.0	Sub6 n66/ 10 MHz [15 kHz]	PI/2 BPSK	-21.48	11.89	10.43	2.07	V	< 1.00	0.106	20.25	1	1
		QPSK	-21.60	11.77	10.43	2.07	V		0.103	20.13		
		16-QAM	-22.69	10.68	10.43	2.07	V		0.080	19.04		
		64-QAM	-24.09	9.28	10.43	2.07	V		0.058	17.64		
		256-QAM	-26.35	7.02	10.43	2.07	V		0.035	15.38		
1775.0		PI/2 BPSK	-22.01	11.39	10.49	2.09	V	< 1.00	0.095	19.79	1	1
		QPSK	-22.15	11.25	10.49	2.09	V		0.092	19.65		
		16-QAM	-23.16	10.24	10.49	2.09	V		0.073	18.64		
		64-QAM	-24.53	8.87	10.49	2.09	V		0.053	17.27		
		256-QAM	-27.10	6.30	10.49	2.09	V		0.030	14.70		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1717.5	Sub6 n66/ 15 MHz [15 kHz]	PI/2 BPSK	-20.83	12.33	10.18	2.06	V	< 1.00	0.111	20.45	1	39
		QPSK	-20.89	12.27	10.18	2.06	V		0.109	20.39		
		16-QAM	-22.03	11.13	10.18	2.06	V		0.084	19.25		
		64-QAM	-23.32	9.84	10.18	2.06	V		0.063	17.96		
		256-QAM	-25.82	7.34	10.18	2.06	V		0.035	15.46		
1745.0		PI/2 BPSK	-21.26	12.11	10.43	2.07	V		0.111	20.47	1	1
		QPSK	-21.30	12.07	10.43	2.07	V		0.110	20.43		
		16-QAM	-22.42	10.95	10.43	2.07	V		0.085	19.31		
		64-QAM	-23.97	9.40	10.43	2.07	V		0.060	17.76		
		256-QAM	-26.25	7.12	10.43	2.07	V		0.035	15.48		
1772.5		PI/2 BPSK	-21.97	11.43	10.49	2.09	V		0.096	19.83	1	1
		QPSK	-22.02	11.38	10.49	2.09	V		0.095	19.78		
		16-QAM	-23.11	10.29	10.49	2.09	V		0.074	18.69		
		64-QAM	-24.61	8.79	10.49	2.09	V		0.052	17.19		
		256-QAM	-27.09	6.31	10.49	2.09	V		0.030	14.71		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1720.0	Sub6 n66/ 20 MHz [15 kHz]	PI/2 BPSK	-20.69	12.47	10.18	2.06	V	< 1.00	0.115	20.59	1	53
		QPSK	-20.77	12.39	10.18	2.06	V		0.112	20.51		
		16-QAM	-21.85	11.31	10.18	2.06	V		0.088	19.43		
		64-QAM	-23.43	9.73	10.18	2.06	V		0.061	17.85		
		256-QAM	-25.72	7.44	10.18	2.06	V		0.036	15.56		
1745.0		PI/2 BPSK	-21.24	12.13	10.43	2.07	V		0.112	20.49	1	1
		QPSK	-21.31	12.06	10.43	2.07	V		0.110	20.42		
		16-QAM	-22.34	11.03	10.43	2.07	V		0.087	19.39		
		64-QAM	-23.91	9.46	10.43	2.07	V		0.061	17.82		
		256-QAM	-26.07	7.30	10.43	2.07	V		0.037	15.66		
1770.0		PI/2 BPSK	-22.10	11.32	10.49	2.09	V		0.094	19.72	1	53
		QPSK	-22.15	11.27	10.49	2.09	V		0.093	19.67		
		16-QAM	-23.24	10.18	10.49	2.09	V		0.072	18.58		
		64-QAM	-24.55	8.87	10.49	2.09	V		0.053	17.27		
		256-QAM	-27.23	6.19	10.49	2.09	V		0.029	14.59		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1725.0	Sub6 n66/ 30 MHz [15 kHz]	PI/2 BPSK	-20.60	12.68	10.23	2.07	V	< 1.00	0.121	20.84	1	80
		QPSK	-20.62	12.66	10.23	2.07	V		0.121	20.82		
		16-QAM	-21.77	11.51	10.23	2.07	V		0.093	19.67		
		64-QAM	-23.20	10.08	10.23	2.07	V		0.067	18.24		
		256-QAM	-25.90	7.38	10.23	2.07	V		0.036	15.54		
1745.0		PI/2 BPSK	-20.87	12.50	10.43	2.07	V		0.122	20.86	1	1
		QPSK	-20.97	12.40	10.43	2.07	V		0.119	20.76		
		16-QAM	-22.16	11.21	10.43	2.07	V		0.091	19.57		
		64-QAM	-23.60	9.77	10.43	2.07	V		0.065	18.13		
		256-QAM	-25.76	7.61	10.43	2.07	V		0.040	15.97		
1765.0		PI/2 BPSK	-21.82	11.51	10.48	2.09	V		0.098	19.90	1	1
		QPSK	-21.90	11.43	10.48	2.09	V		0.096	19.82		
		16-QAM	-22.88	10.45	10.48	2.09	V		0.077	18.84		
		64-QAM	-24.39	8.94	10.48	2.09	V		0.054	17.33		
		256-QAM	-26.83	6.50	10.48	2.09	V		0.031	14.89		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1730.0	Sub6 n66/ 40 MHz [15 kHz]	PI/2 BPSK	-20.92	12.48	10.29	2.08	V	< 1.00	0.117	20.69	1	1
		QPSK	-21.02	12.38	10.29	2.08	V		0.115	20.59		
		16-QAM	-21.86	11.54	10.29	2.08	V		0.094	19.75		
		64-QAM	-23.32	10.08	10.29	2.08	V		0.068	18.29		
		256-QAM	-25.91	7.49	10.29	2.08	V		0.037	15.70		
1745.0		PI/2 BPSK	-20.89	12.48	10.43	2.07	V		0.121	20.84	1	1
		QPSK	-20.99	12.38	10.43	2.07	V		0.119	20.74		
		16-QAM	-21.87	11.50	10.43	2.07	V		0.097	19.86		
		64-QAM	-23.23	10.14	10.43	2.07	V		0.071	18.50		
		256-QAM	-25.96	7.41	10.43	2.07	V		0.038	15.77		
1760.0		PI/2 BPSK	-21.33	11.89	10.48	2.09	V		0.107	20.28	1	1
		QPSK	-21.43	11.79	10.48	2.09	V		0.104	20.18		
		16-QAM	-22.58	10.64	10.48	2.09	V		0.080	19.03		
		64-QAM	-23.95	9.27	10.48	2.09	V		0.058	17.66		
		256-QAM	-26.38	6.84	10.48	2.09	V		0.033	15.23		

9.2 RADIATED SPURIOUS EMISSIONS

■ NR Band:	<u>N66</u>
■ Bandwidth:	<u>30 MHz</u>
■ Modulation:	<u>PI/2 BPSK</u>
■ Distance:	<u>3 meters</u>
■ SCS:	<u>15 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
345000 (1725.0)	3 450.00	-60.28	11.93	-61.22	3.05	V	-52.34	-13.00	1	80
	5 175.00	-61.18	11.58	-55.55	3.79	V	-47.76	-13.00		
	6 900.00	-62.13	11.15	-49.90	4.41	V	-43.16	-13.00		
349000 (1745.0)	3 490.00	-59.80	12.04	-60.54	3.04	V	-51.54	-13.00	1	1
	5 235.00	-60.79	11.76	-55.46	3.78	V	-47.48	-13.00		
	6 980.00	-61.99	11.16	-49.21	4.48	V	-42.53	-13.00		
353000 (1765.0)	3 530.00	-59.37	12.04	-61.13	3.05	V	-52.14	-13.00	1	1
	5 295.00	-61.09	11.89	-55.41	3.83	V	-47.35	-13.00		
	7 060.00	-62.72	10.95	-48.16	4.49	V	-41.70	-13.00		

9.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n66	5 MHz	1745.0	BPSK	25	0	4.61
			QPSK			6.12
			16-QAM			6.61
			64-QAM			6.66
			256-QAM			6.94
	10 MHz		BPSK	50		4.62
			QPSK			5.67
			16-QAM			6.51
			64-QAM			6.81
			256-QAM			6.51
	15 MHz		BPSK	75		4.53
			QPSK			5.69
			16-QAM			6.39
			64-QAM			6.55
			256-QAM			6.77
	20 MHz		BPSK	100		4.37
			QPSK			5.69
			16-QAM			6.43
			64-QAM			6.57
			256-QAM			6.67
	30 MHz		BPSK	160		4.45
			QPSK			5.53
			16-QAM			6.40
			64-QAM			6.68
			256-QAM			6.54
	40 MHz		BPSK	216		4.48
			QPSK			5.43
			16-QAM			6.32
			64-QAM			6.53
			256-QAM			6.62

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 192 ~ 221.

9.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n66	5 MHz	1745.0	BPSK	25	0	4.4968
			QPSK			4.5056
			16-QAM			4.5060
			64-QAM			4.5637
			256-QAM			4.5314
	10 MHz		BPSK	50		8.9430
			QPSK			8.9978
			16-QAM			8.9629
			64-QAM			8.9806
			256-QAM			8.9455
	15 MHz		BPSK	75		13.446
			QPSK			13.460
			16-QAM			13.394
			64-QAM			13.470
			256-QAM			13.459
	20 MHz		BPSK	100		17.861
			QPSK			17.887
			16-QAM			17.952
			64-QAM			17.868
			256-QAM			17.914
	30 MHz		BPSK	160		28.604
			QPSK			28.743
			16-QAM			28.646
			64-QAM			28.544
			256-QAM			28.594
	40 MHz		BPSK	216		38.620
			QPSK			38.594
			16-QAM			38.574
			64-QAM			38.562
			256-QAM			38.587

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 222 ~ 251.

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 n66	5	1712.5	8.8505	30.815	-70.213	-39.398	-13.00
		1745.0	8.2847	30.815	-70.063	-39.248	
		1777.5	4.0325	30.200	-70.341	-40.141	
	10	1715.0	9.7318	30.815	-71.172	-40.357	
		1745.0	8.2109	30.815	-70.693	-39.878	
		1775.0	4.0195	30.200	-69.519	-39.319	
	15	1717.5	6.9243	30.815	-70.556	-39.741	
		1745.0	9.6969	30.815	-70.113	-39.298	
		1772.5	4.9547	30.200	-70.433	-40.233	
	20	1720.0	8.2473	30.815	-70.811	-39.996	
		1745.0	8.8873	30.815	-70.700	-39.885	
		1770.0	8.2832	30.815	-70.272	-39.457	
	30	1725.0	4.2907	30.200	-70.450	-40.250	
		1745.0	4.0524	30.200	-70.478	-40.278	
		1765.0	7.1625	30.815	-70.573	-39.758	
	40	1730.0	9.1565	30.200	-70.505	-40.305	
		1745.0	4.9582	30.200	-70.720	-40.520	
		1760.0	5.2039	30.815	-70.743	-39.928	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 252 ~ 287.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

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

9.6 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 288 ~ 323.

9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1712.5	100 %	+20(Ref)	1712 499 999	0.0	0.000 000	0.000
	100 %	-30	1712 499 997	-1.4	0.000 000	-0.001
	100 %	-20	1712 499 998	-1.1	0.000 000	-0.001
	100 %	-10	1712 499 998	-0.8	0.000 000	0.000
	100 %	0	1712 499 999	0.4	0.000 000	0.000
	100 %	+10	1712 499 996	-2.4	0.000 000	-0.001
	100 %	+30	1712 499 998	-0.2	0.000 000	0.000
	100 %	+40	1712 499 997	-1.3	0.000 000	-0.001
	100 %	+50	1712 499 998	-1.0	0.000 000	-0.001
	Batt. Endpoint	+20	1712 499 999	0.0	0.000 000	0.000
1777.5	100 %	+20(Ref)	1777 500 002	0.0	0.000 000	0.000
	100 %	-30	1777 500 004	2.2	0.000 000	0.001
	100 %	-20	1777 500 004	1.7	0.000 000	0.001
	100 %	-10	1777 500 002	-0.3	0.000 000	0.000
	100 %	0	1777 500 003	0.4	0.000 000	0.000
	100 %	+10	1777 500 002	-0.6	0.000 000	0.000
	100 %	+30	1777 500 004	1.5	0.000 000	0.001
	100 %	+40	1777 500 004	1.3	0.000 000	0.001
	100 %	+50	1777 500 003	0.6	0.000 000	0.000
	Batt. Endpoint	+20	1777 500 002	0.0	0.000 000	0.000

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1715.0	100 %	+20(Ref)	1714 999 998	0.0	0.000 000	0.000
	100 %	-30	1714 999 999	1.1	0.000 000	0.001
	100 %	-20	1714 999 999	1.3	0.000 000	0.001
	100 %	-10	1714 999 999	1.1	0.000 000	0.001
	100 %	0	1714 999 999	0.8	0.000 000	0.000
	100 %	+10	1714 999 998	0.7	0.000 000	0.000
	100 %	+30	1714 999 997	-0.3	0.000 000	0.000
	100 %	+40	1714 999 997	-0.5	0.000 000	0.000
	100 %	+50	1715 000 000	2.3	0.000 000	0.001
	Batt. Endpoint	+20	1714 999 999	1.7	0.000 000	0.001
1775.0	100 %	+20(Ref)	1774 999 998	0.0	0.000 000	0.000
	100 %	-30	1774 999 998	-0.4	0.000 000	0.000
	100 %	-20	1774 999 997	-1.7	0.000 000	-0.001
	100 %	-10	1774 999 998	-0.1	0.000 000	0.000
	100 %	0	1774 999 999	0.4	0.000 000	0.000
	100 %	+10	1774 999 998	-0.3	0.000 000	0.000
	100 %	+30	1774 999 999	0.9	0.000 000	0.001
	100 %	+40	1774 999 998	-0.5	0.000 000	0.000
	100 %	+50	1774 999 997	-1.5	0.000 000	-0.001
	Batt. Endpoint	+20	1774 999 999	0.1	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	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1717.5	100 %	+20(Ref)	1717 500 002	0.0	0.000 000	0.000
	100 %	-30	1717 500 003	0.9	0.000 000	0.001
	100 %	-20	1717 500 002	0.5	0.000 000	0.000
	100 %	-10	1717 500 002	0.2	0.000 000	0.000
	100 %	0	1717 500 002	0.3	0.000 000	0.000
	100 %	+10	1717 500 003	1.4	0.000 000	0.001
	100 %	+30	1717 500 003	0.8	0.000 000	0.000
	100 %	+40	1717 500 002	0.3	0.000 000	0.000
	100 %	+50	1717 500 003	1.0	0.000 000	0.001
	Batt. Endpoint	+20	1717 500 002	0.3	0.000 000	0.000
1772.5	100 %	+20(Ref)	1772 499 998	0.0	0.000 000	0.000
	100 %	-30	1772 499 998	-0.7	0.000 000	0.000
	100 %	-20	1772 499 999	1.2	0.000 000	0.001
	100 %	-10	1772 499 995	-2.7	0.000 000	-0.002
	100 %	0	1772 499 996	-2.1	0.000 000	-0.001
	100 %	+10	1772 499 997	-1.6	0.000 000	-0.001
	100 %	+30	1772 499 996	-2.0	0.000 000	-0.001
	100 %	+40	1772 499 996	-2.3	0.000 000	-0.001
	100 %	+50	1772 499 998	0.1	0.000 000	0.000
	Batt. Endpoint	+20	1772 499 996	-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	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1720.0	100 %	+20(Ref)	1719 999 999	0.0	0.000 000	0.000
	100 %	-30	1720 000 000	0.3	0.000 000	0.000
	100 %	-20	1719 999 998	-0.9	0.000 000	-0.001
	100 %	-10	1719 999 998	-1.3	0.000 000	-0.001
	100 %	0	1719 999 997	-2.1	0.000 000	-0.001
	100 %	+10	1719 999 999	-0.1	0.000 000	0.000
	100 %	+30	1719 999 999	-0.3	0.000 000	0.000
	100 %	+40	1719 999 998	-1.4	0.000 000	-0.001
	100 %	+50	1720 000 000	0.4	0.000 000	0.000
	Batt. Endpoint	+20	1719 999 996	-3.3	0.000 000	-0.002
1770.0	100 %	+20(Ref)	1770 000 005	0.0	0.000 000	0.000
	100 %	-30	1770 000 005	-0.6	0.000 000	0.000
	100 %	-20	1770 000 007	1.3	0.000 000	0.001
	100 %	-10	1770 000 007	1.6	0.000 000	0.001
	100 %	0	1770 000 008	3.0	0.000 000	0.002
	100 %	+10	1770 000 007	1.4	0.000 000	0.001
	100 %	+30	1770 000 008	2.9	0.000 000	0.002
	100 %	+40	1770 000 005	-0.4	0.000 000	0.000
	100 %	+50	1770 000 006	1.0	0.000 000	0.001
	Batt. Endpoint	+20	1770 000 004	-1.4	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	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1725.0	100 %	+20(Ref)	1725 000 005	0.0	0.000 000	0.000
	100 %	-30	1725 000 012	7.2	0.000 000	0.004
	100 %	-20	1725 000 010	5.2	0.000 000	0.003
	100 %	-10	1725 000 011	5.5	0.000 000	0.003
	100 %	0	1725 000 013	7.8	0.000 000	0.005
	100 %	+10	1725 000 012	7.2	0.000 000	0.004
	100 %	+30	1725 000 013	7.7	0.000 000	0.004
	100 %	+40	1725 000 013	7.7	0.000 000	0.004
	100 %	+50	1725 000 012	6.5	0.000 000	0.004
	Batt. Endpoint	+20	1725 000 012	6.7	0.000 000	0.004
1765.0	100 %	+20(Ref)	1765 000 004	0.0	0.000 000	0.000
	100 %	-30	1765 000 008	4.4	0.000 000	0.002
	100 %	-20	1765 000 009	5.1	0.000 000	0.003
	100 %	-10	1765 000 009	5.4	0.000 000	0.003
	100 %	0	1765 000 006	1.8	0.000 000	0.001
	100 %	+10	1765 000 009	5.4	0.000 000	0.003
	100 %	+30	1765 000 009	5.2	0.000 000	0.003
	100 %	+40	1765 000 009	5.0	0.000 000	0.003
	100 %	+50	1765 000 008	4.5	0.000 000	0.003
	Batt. Endpoint	+20	1765 000 009	5.1	0.000 000	0.003

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1730.0	100 %	+20(Ref)	1730 000 008	0.0	0.000 000	0.000
	100 %	-30	1730 000 015	6.9	0.000 000	0.004
	100 %	-20	1730 000 014	6.0	0.000 000	0.003
	100 %	-10	1730 000 014	6.4	0.000 000	0.004
	100 %	0	1730 000 015	7.8	0.000 000	0.004
	100 %	+10	1730 000 015	7.1	0.000 000	0.004
	100 %	+30	1730 000 014	6.0	0.000 000	0.003
	100 %	+40	1730 000 015	7.7	0.000 000	0.004
	100 %	+50	1730 000 017	8.9	0.000 001	0.005
	Batt. Endpoint	+20	1730 000 016	8.1	0.000 000	0.005
1760.0	100 %	+20(Ref)	1760 000 006	0.0	0.000 000	0.000
	100 %	-30	1760 000 010	4.6	0.000 000	0.003
	100 %	-20	1760 000 013	6.8	0.000 000	0.004
	100 %	-10	1760 000 013	6.9	0.000 000	0.004
	100 %	0	1760 000 012	6.1	0.000 000	0.003
	100 %	+10	1760 000 013	7.3	0.000 000	0.004
	100 %	+30	1760 000 012	6.6	0.000 000	0.004
	100 %	+40	1760 000 012	6.3	0.000 000	0.004
	100 %	+50	1760 000 013	7.7	0.000 000	0.004
	Batt. Endpoint	+20	1760 000 013	7.4	0.000 000	0.004

10. TEST PLOTS (Main1)

NR66_5 M_PAR_Mid_BPSK_FullIRB



NR66_5 M_PAR_Mid_QPSK_FullRB



NR66_5 M_PAR_Mid_16QAM_FullRB



NR66_5 M_PAR_Mid_64QAM_FullRB



NR66_5 M_PAR_Mid_256QAM_FullRB



NR66_10 M_PAR_Mid_BPSK_FullIRB



NR66_10 M_PAR_Mid_QPSK_FullRB



NR66_10 M_PAR_Mid_16QAM_FullRB



NR66_10 M_PAR_Mid_64QAM_FullRB



NR66_10 M_PAR_Mid_256QAM_FullRB



NR66_15 M_PAR_Mid_BPSK_FullIRB



NR66_15 M_PAR_Mid_QPSK_FullRB



NR66_15 M_PAR_Mid_16QAM_FullRB



NR66_15 M_PAR_Mid_64QAM_FullRB



NR66_15 M_PAR_Mid_256QAM_FullRB



NR66_20 M_PAR_Mid_BPSK_FullIRB



NR66_20 M_PAR_Mid_QPSK_FullRB



NR66_20 M_PAR_Mid_16QAM_FullRB



NR66_20 M_PAR_Mid_64QAM_FullRB



NR66_20 M_PAR_Mid_256QAM_FullRB



NR66_30 M_PAR_Mid_BPSK_FullIRB



NR66_30 M_PAR_Mid_QPSK_FullRB



NR66_30 M_PAR_Mid_16QAM_FullRB



NR66_30 M_PAR_Mid_64QAM_FullRB



NR66_30 M_PAR_Mid_256QAM_FullRB



NR66_40 M_PAR_Mid_BPSK_FullIRB



NR66_40 M_PAR_Mid_QPSK_FullRB



NR66_40 M_PAR_Mid_16QAM_FullRB



NR66_40 M_PAR_Mid_64QAM_FullRB



NR66_40 M_PAR_Mid_256QAM_FullRB



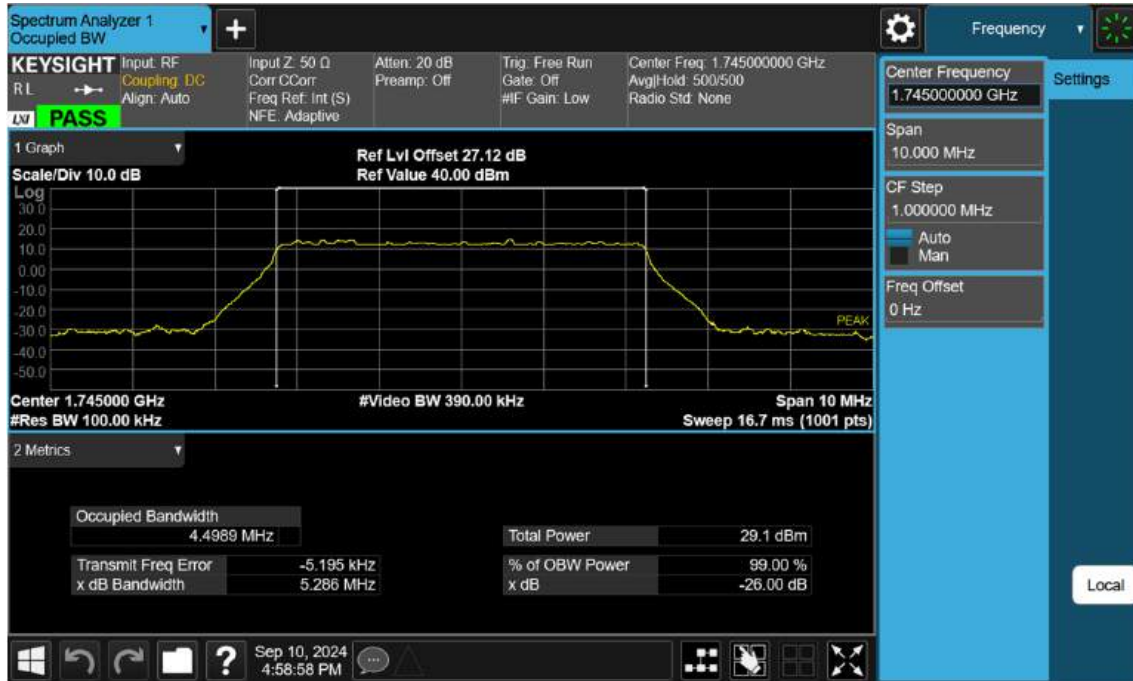
NR66_5 M_OBW_Mid_BPSK_FullIRB



NR66_5 M_OBW_Mid_QPSK_FullRB



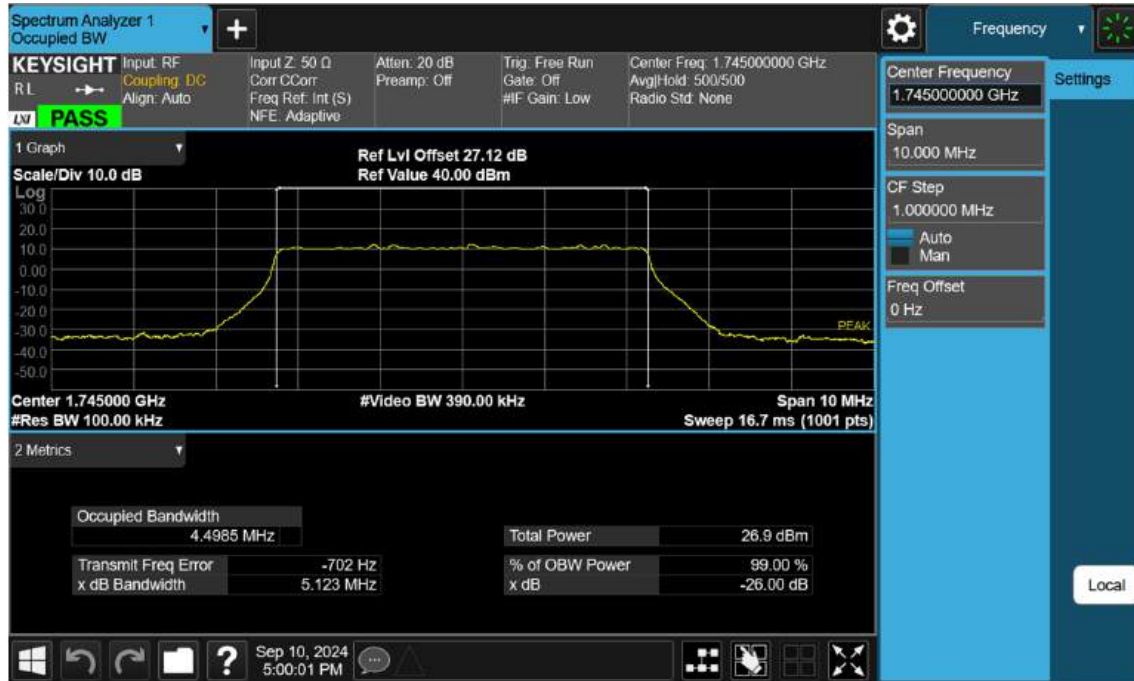
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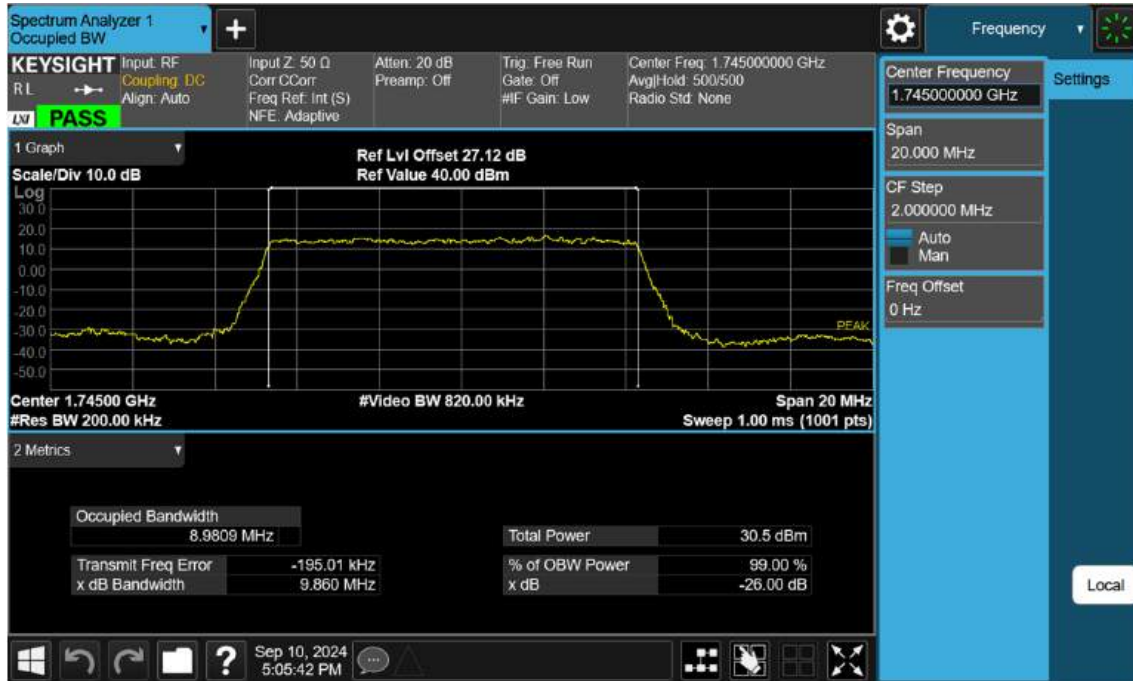
NR66_5 M_OBW_Mid_64QAM_FullRB



NR66_5 M_OBW_Mid_256QAM_FullRB



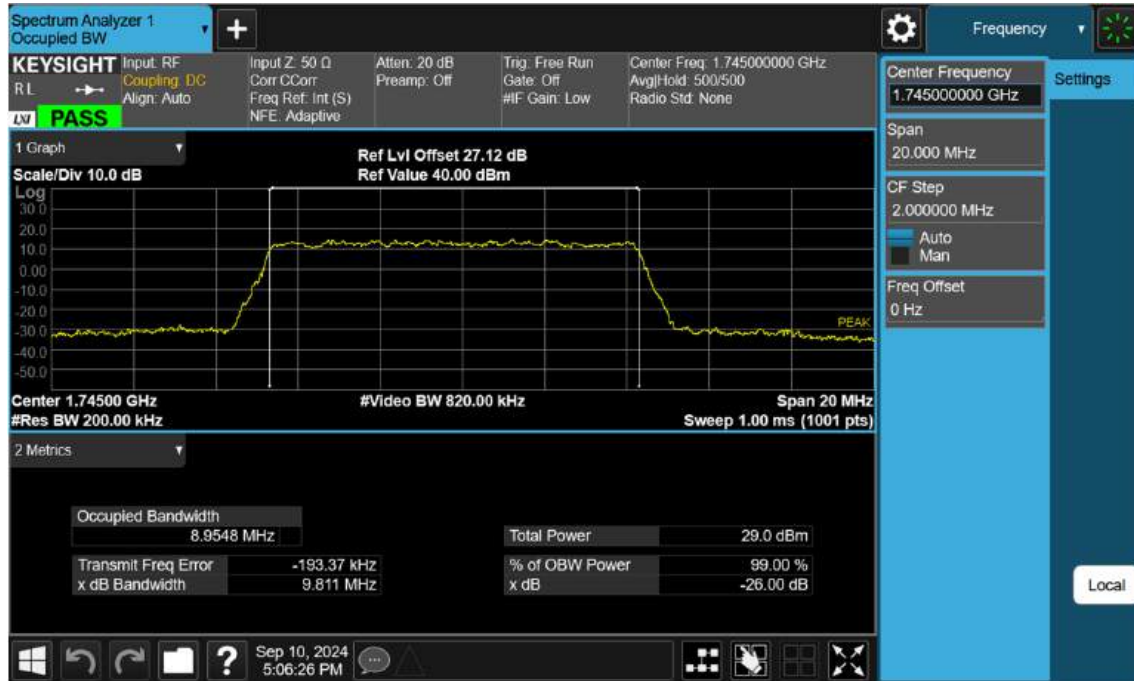
NR66_10 M_OBW_Mid_BPSK_FullRB



NR66_10 M_OBW_Mid_QPSK_FullIRB



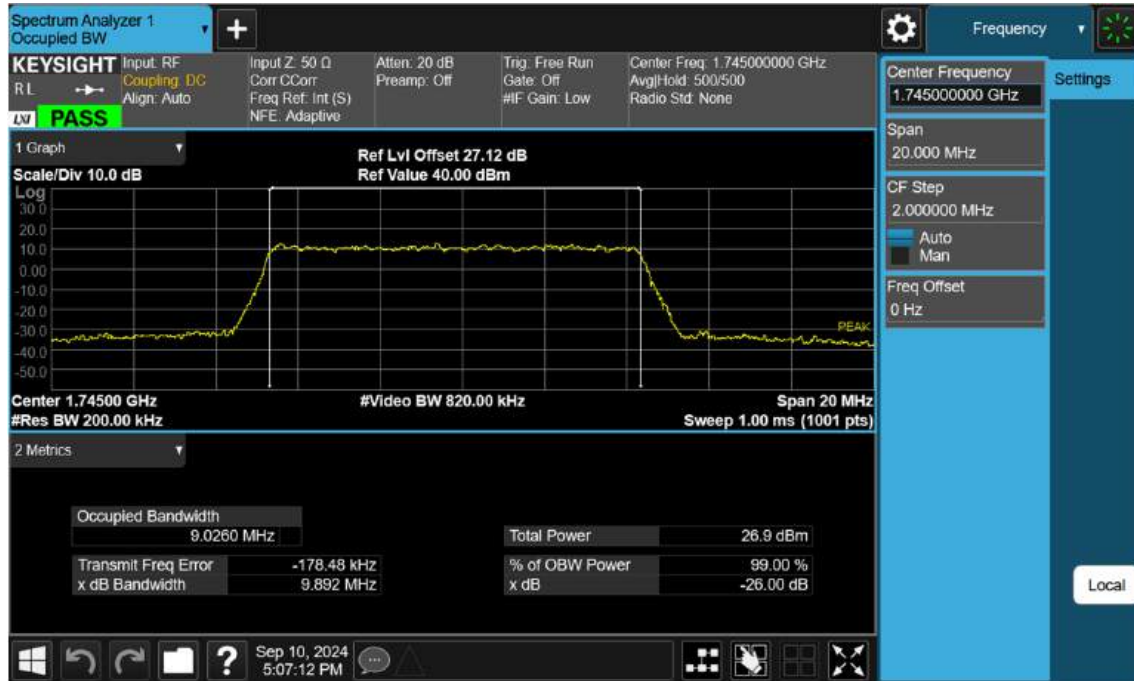
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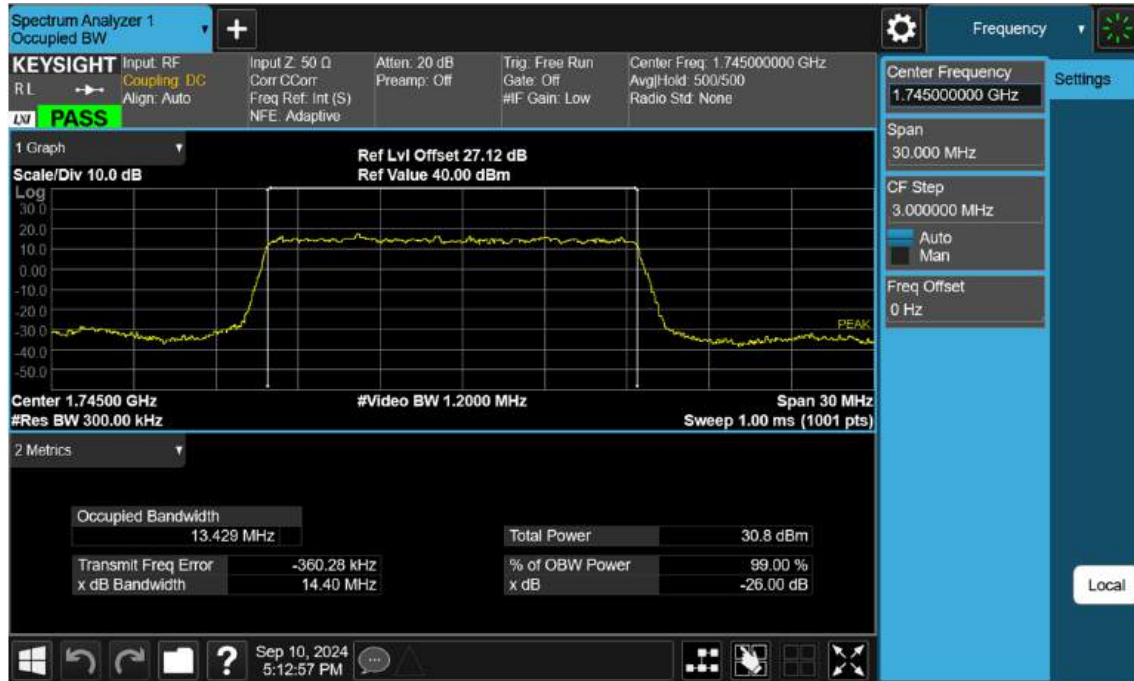
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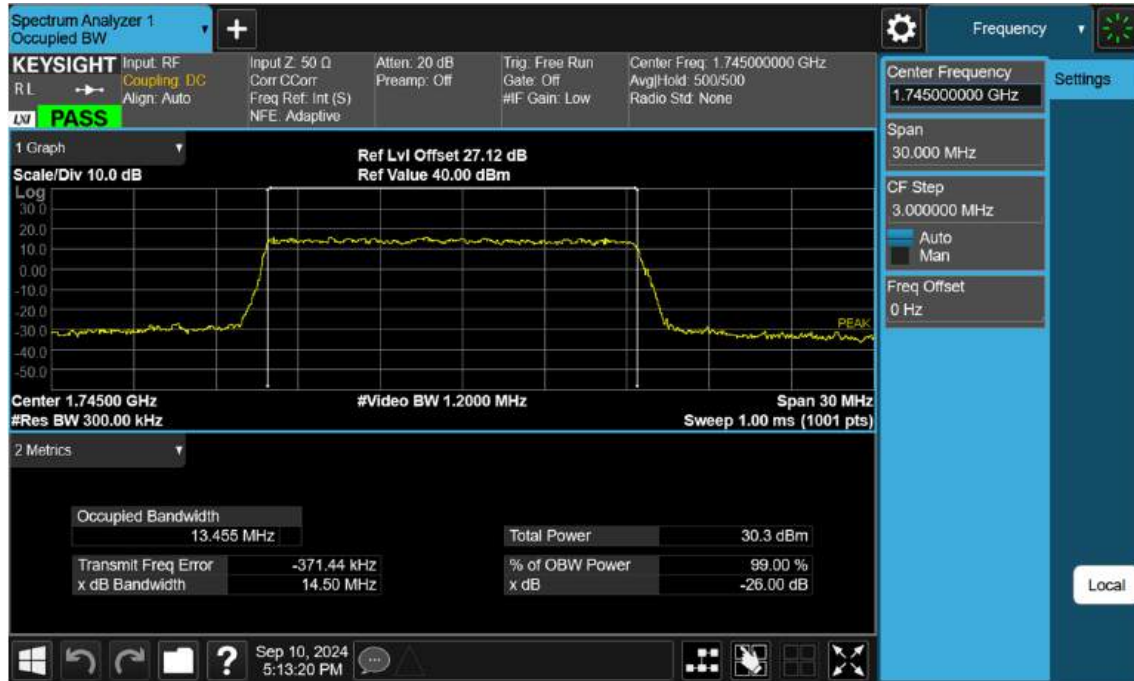
NR66_10 M_OBW_Mid_256QAM_FullRB



NR66_15 M_OBW_Mid_BPSK_FullRB



NR66_15 M_OBW_Mid_QPSK_FullIRB



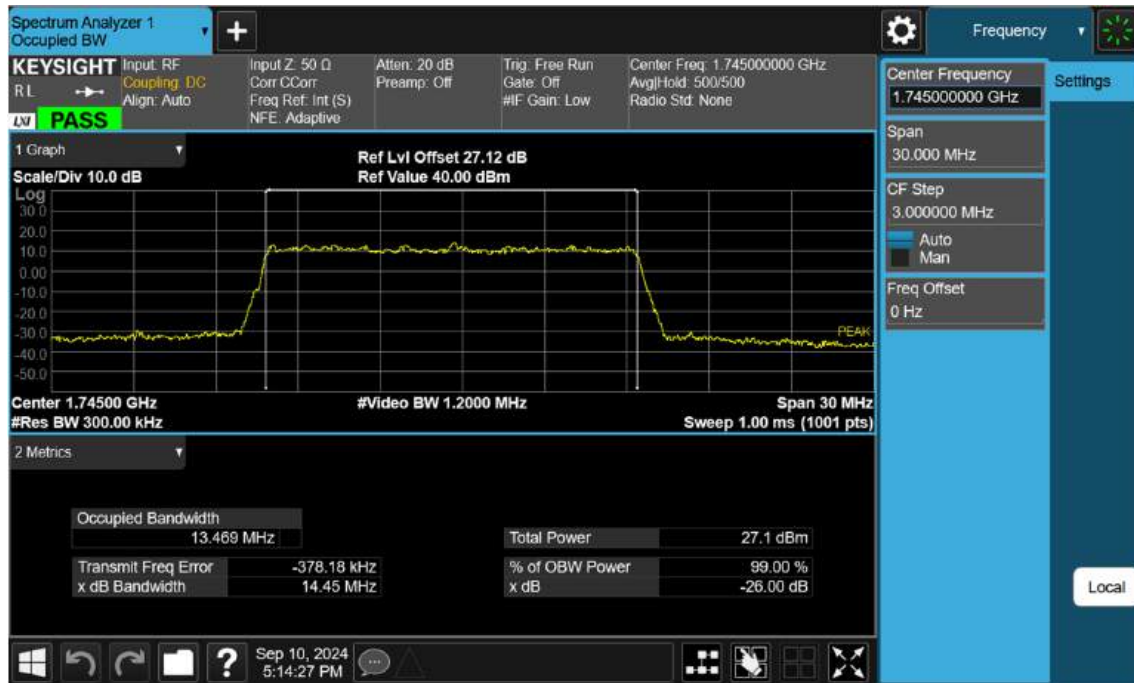
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NR66_15 M_OBW_Mid_64QAM_FullRB



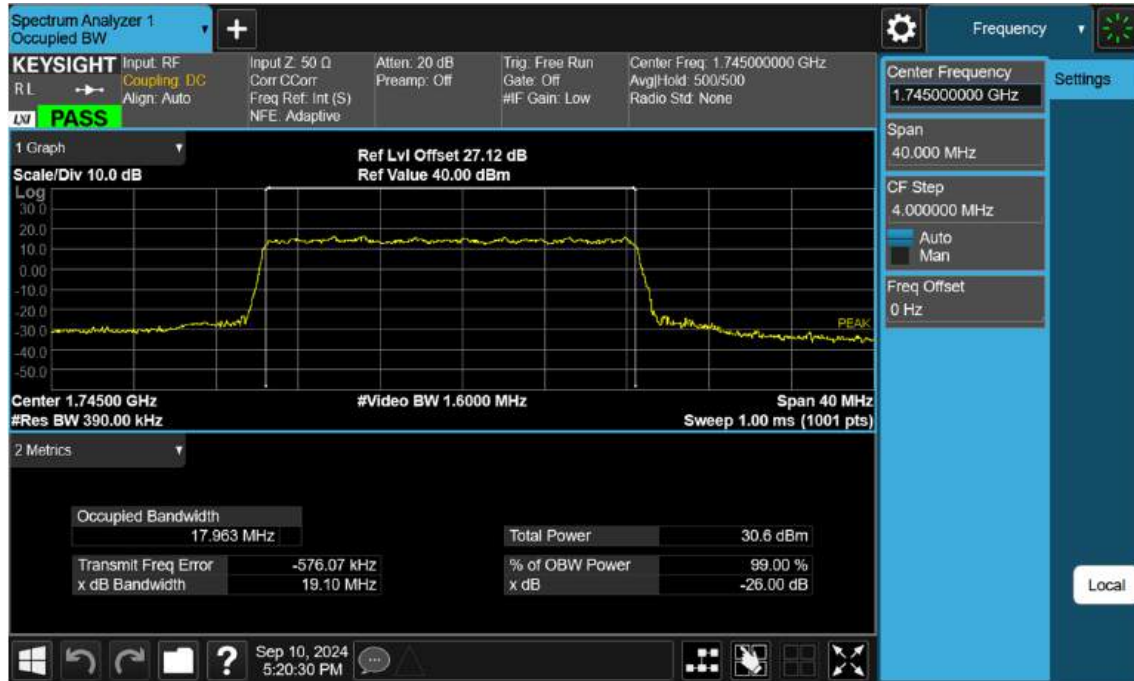
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NR66_20 M_OBW_Mid_BPSK_FullRB



NR66_20 M_OBW_Mid_QPSK_FullIRB



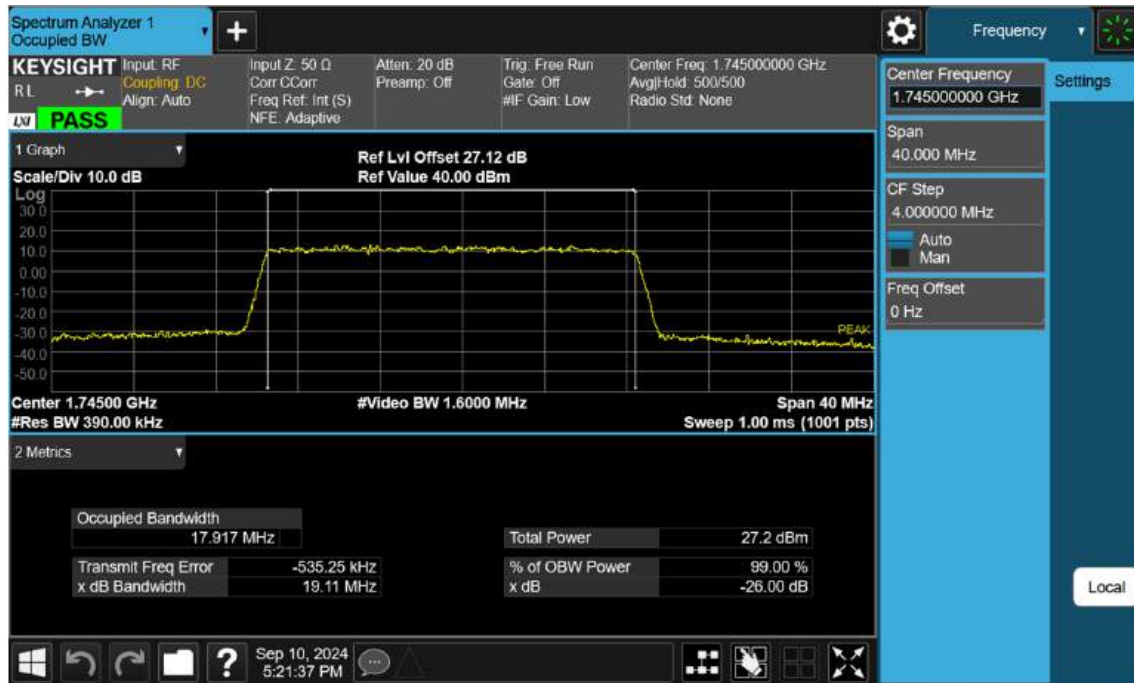
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NR66_20 M_OBW_Mid_64QAM_FullRB



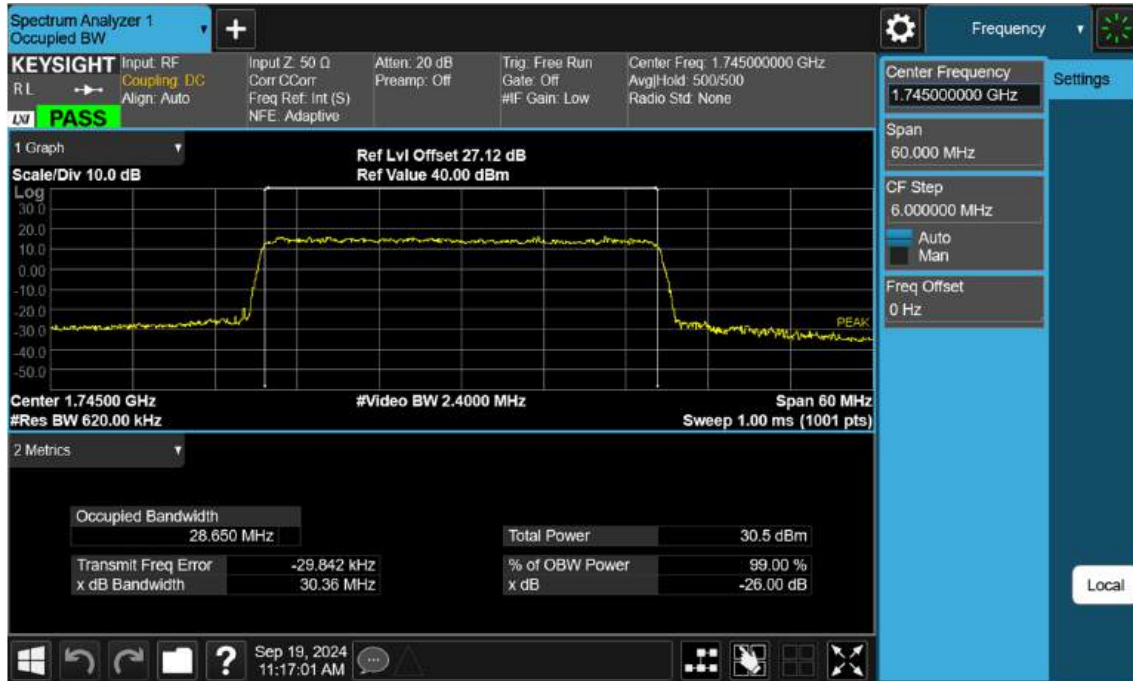
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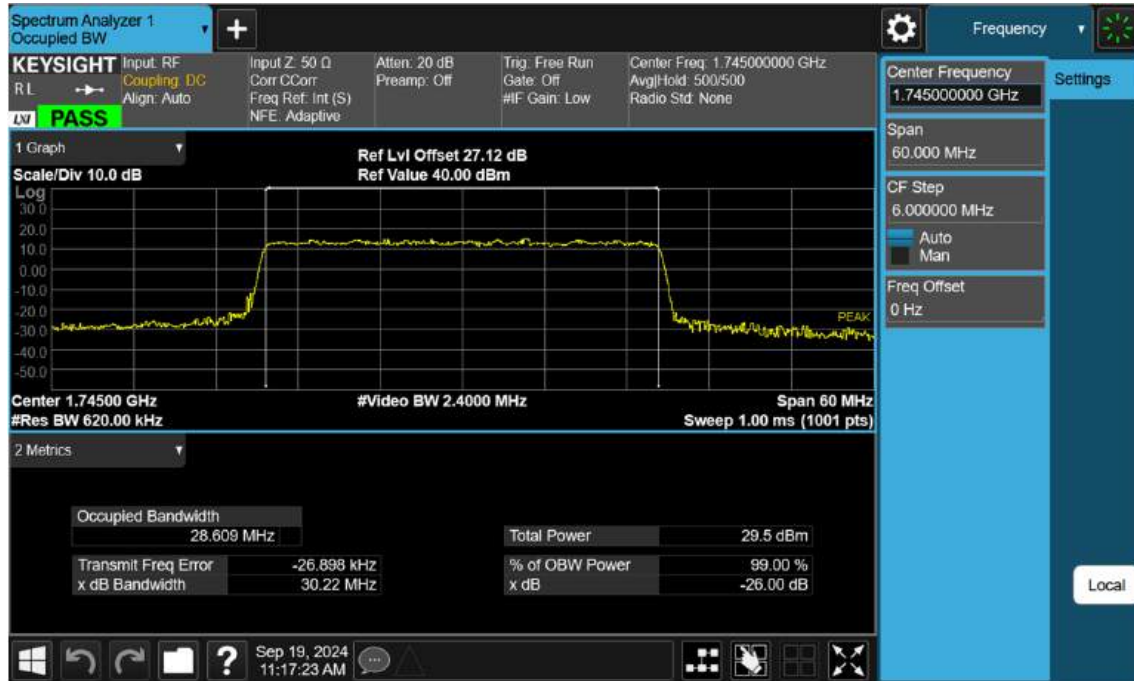
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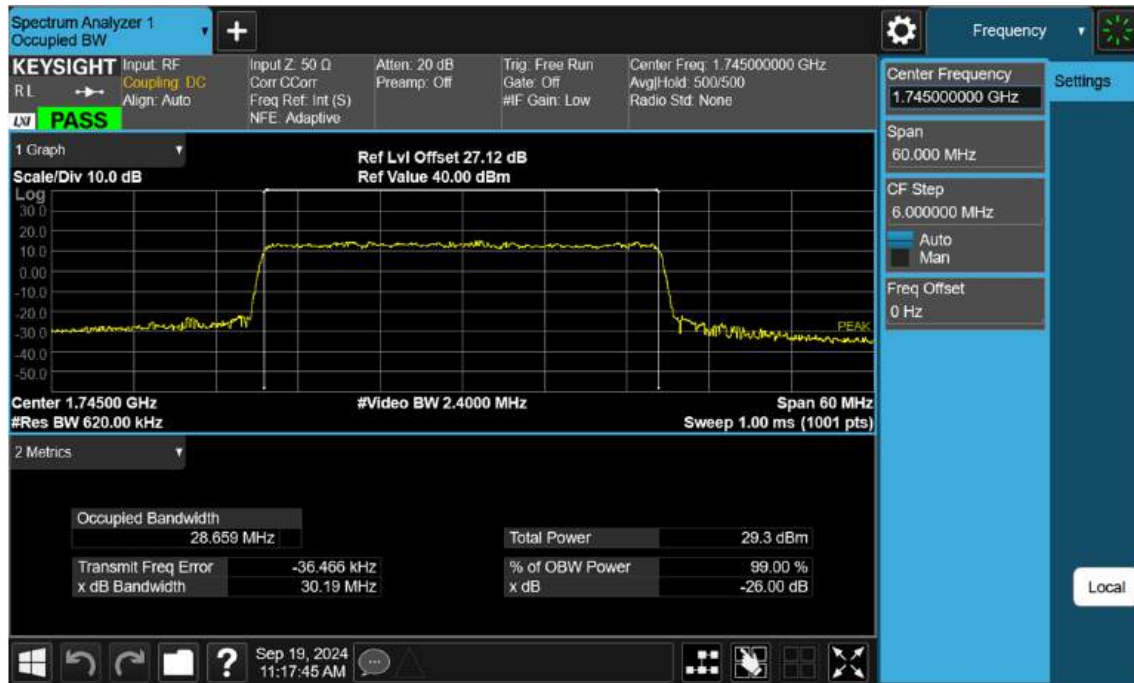
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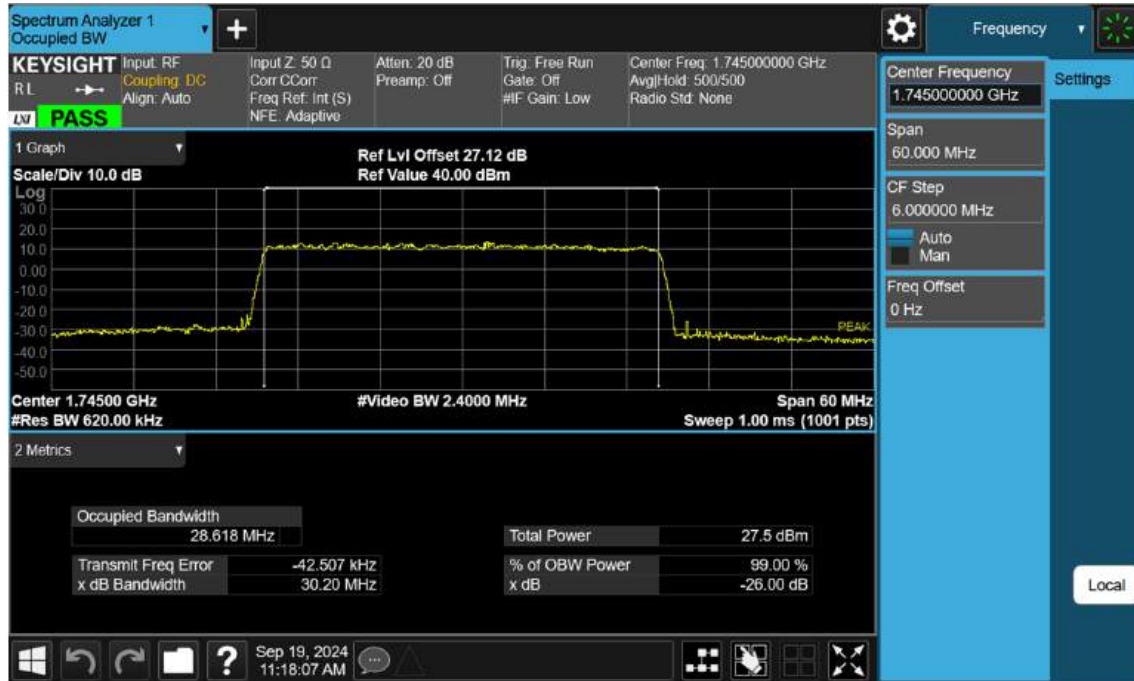
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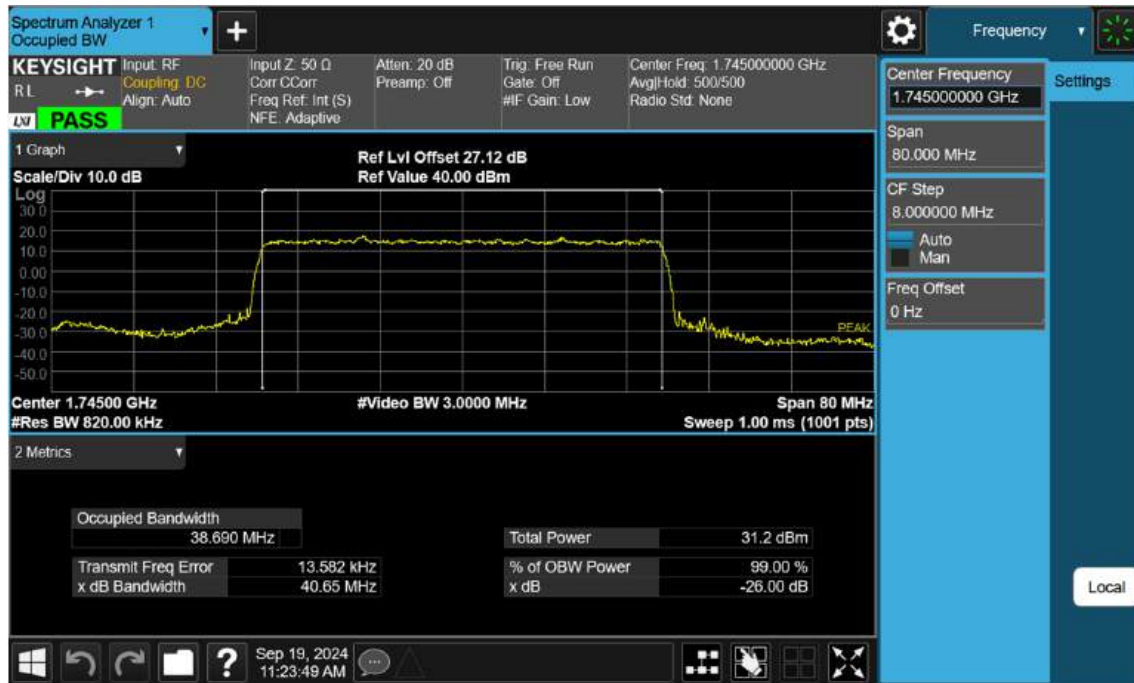
NR66_30 M_OBW_Mid_64QAM_FullRB



NR66_30 M_OBW_Mid_256QAM_FullRB



NR66_40 M_OBW_Mid_BPSK_FullRB



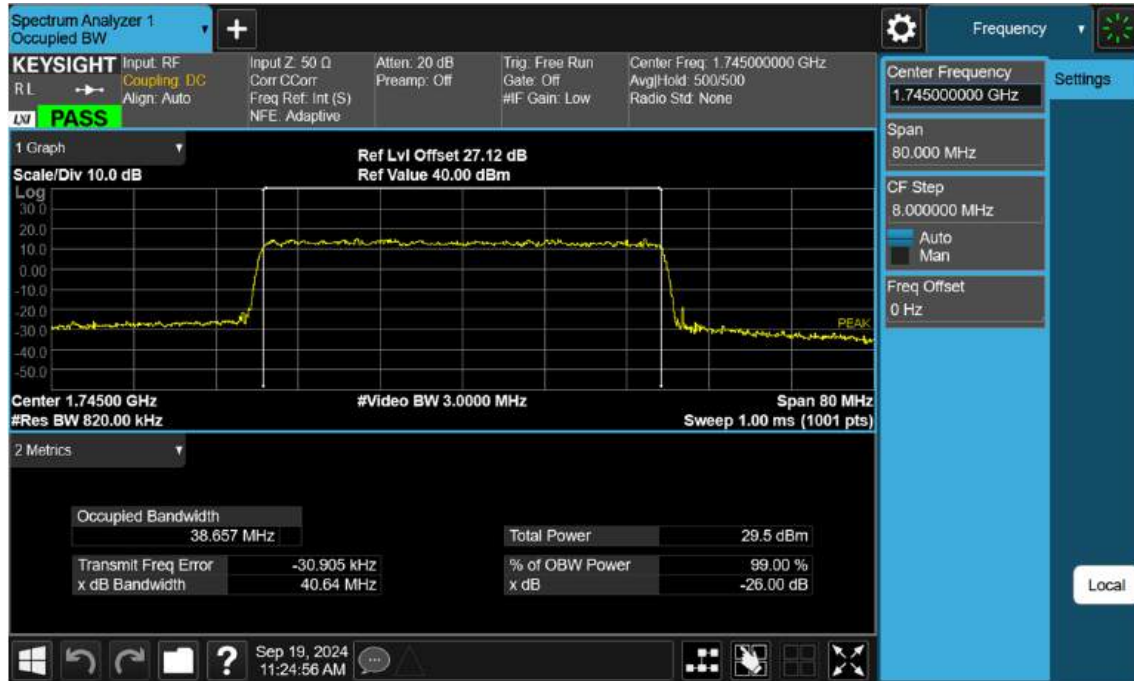
NR66_40 M_OBW_Mid_QPSK_FullIRB



NR66_40 M_OBW_Mid_16QAM_FullRB



NR66_40 M_OBW_Mid_64QAM_FullRB



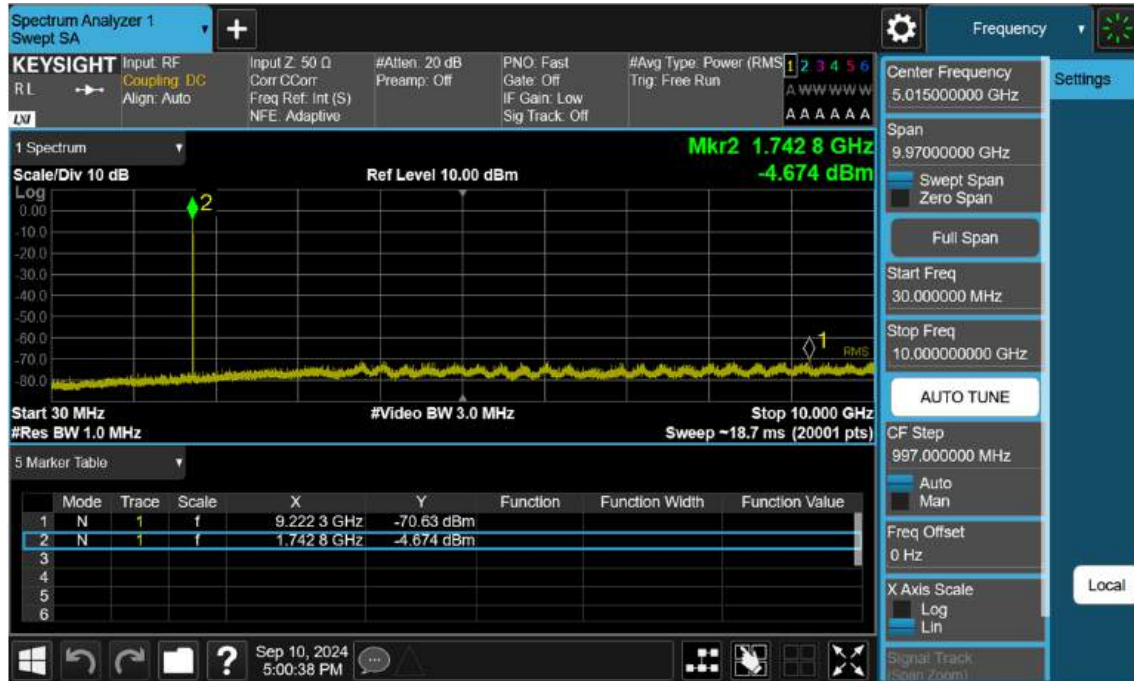
NR66_40 M_OBW_Mid_256QAM_FullRB



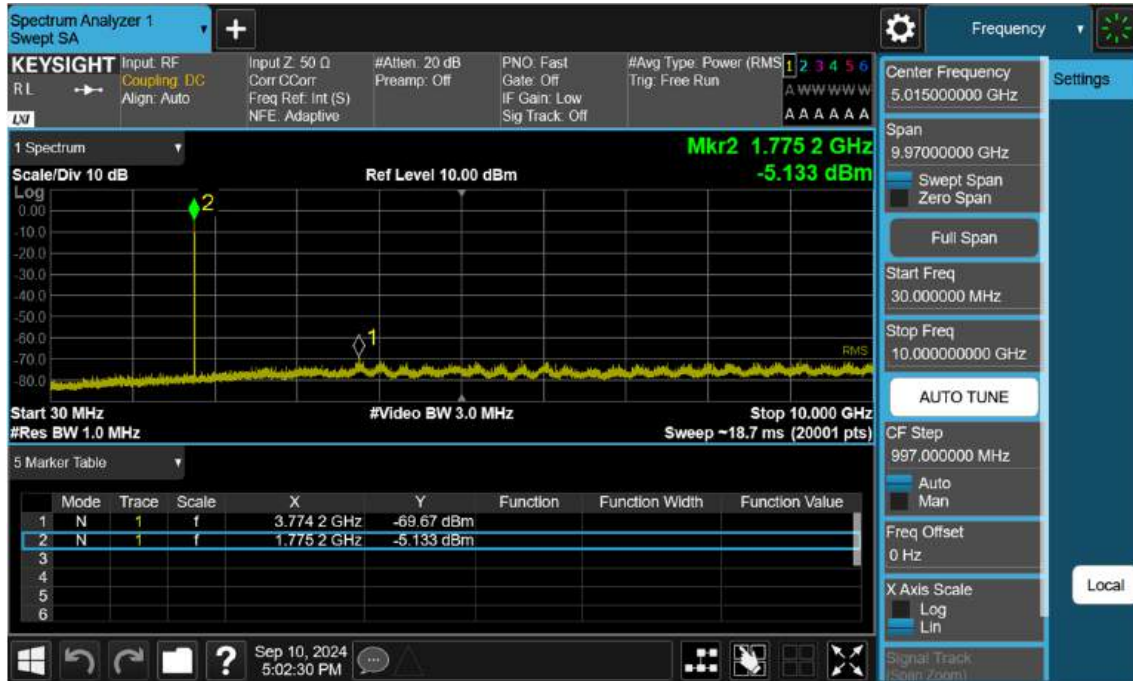
NR66_5 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB



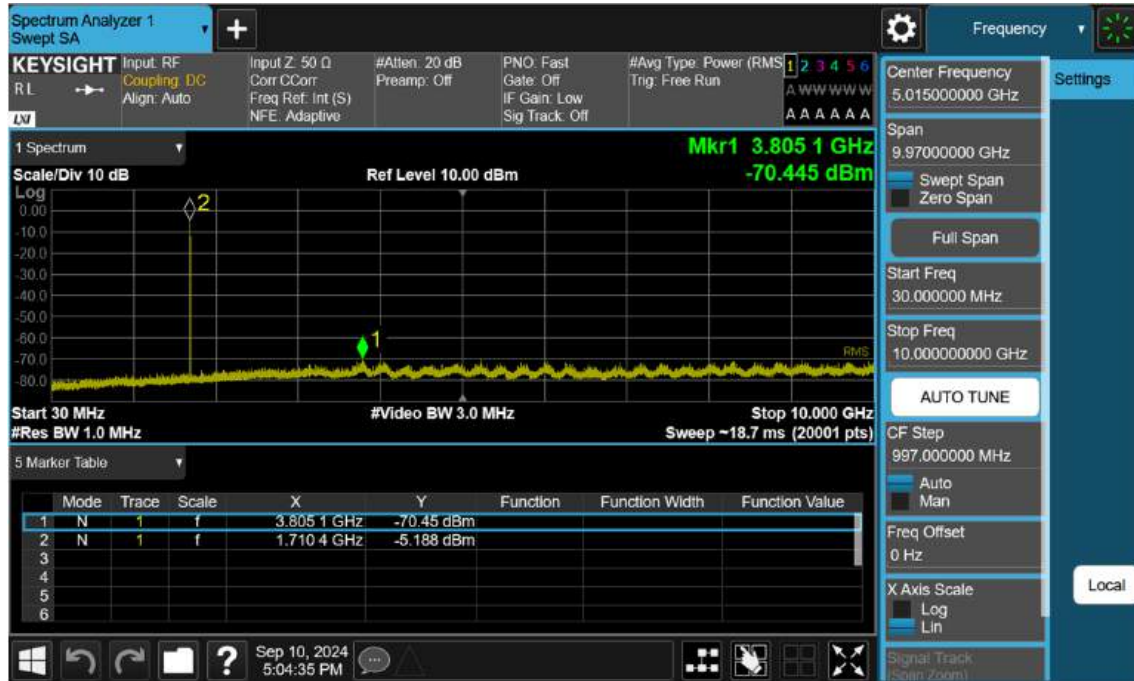
NR66_5 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB



NR66_5 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



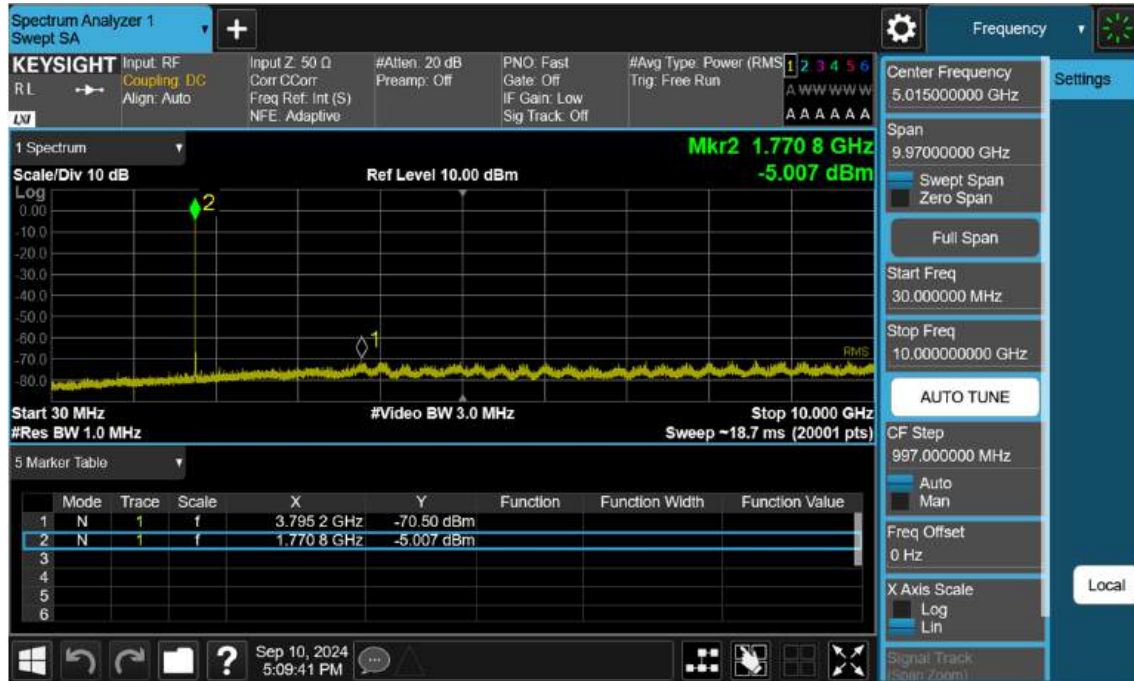
NR66_10 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB



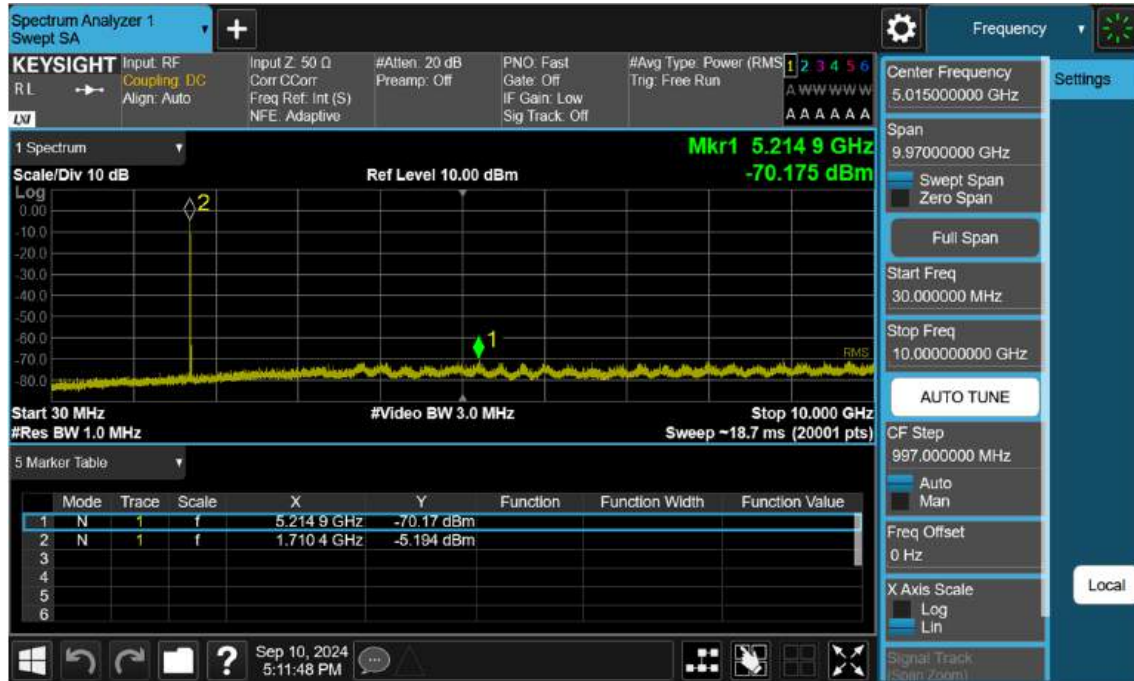
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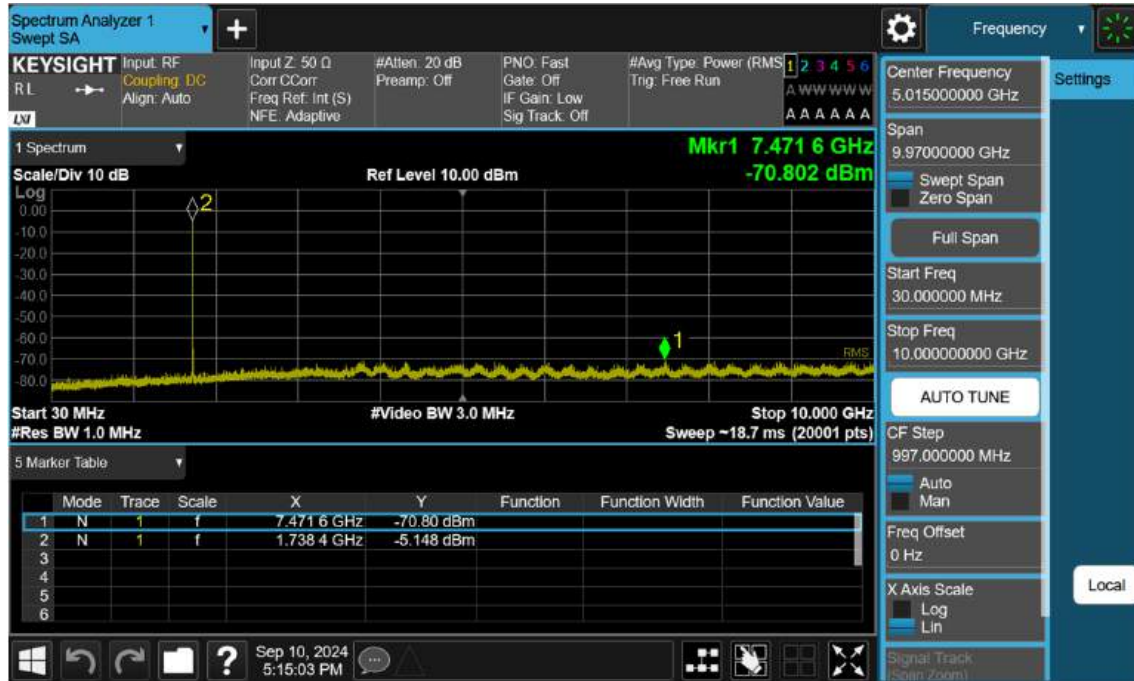
NR66_10 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



NR66_15 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB



NR66_15 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB



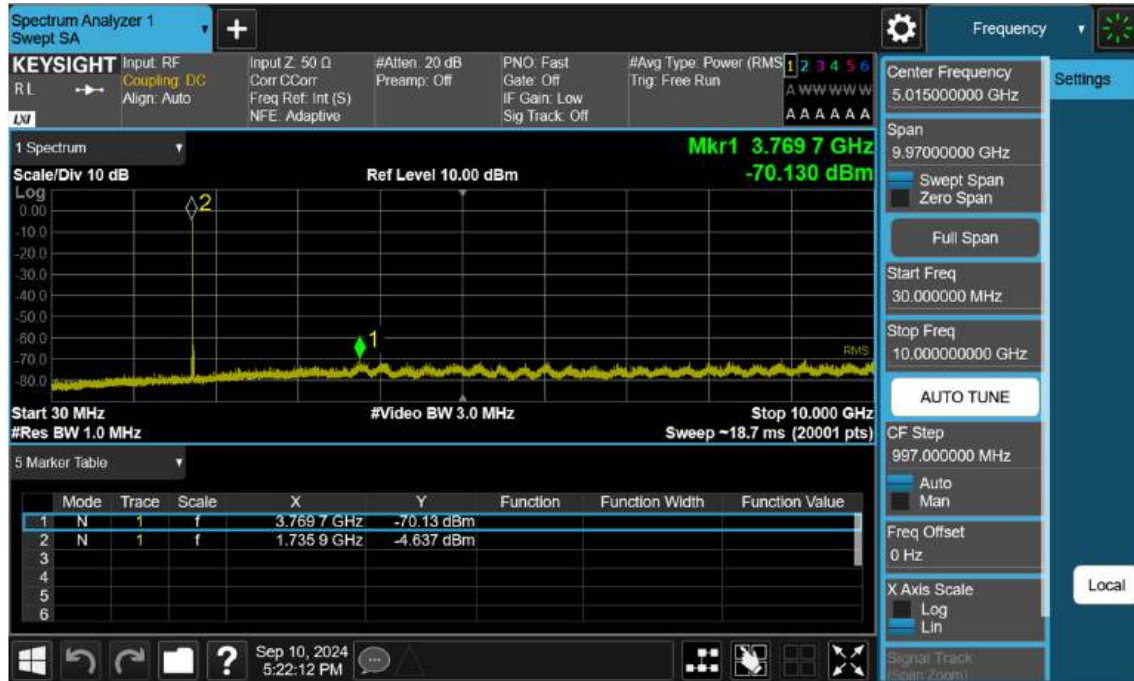
NR66_15 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



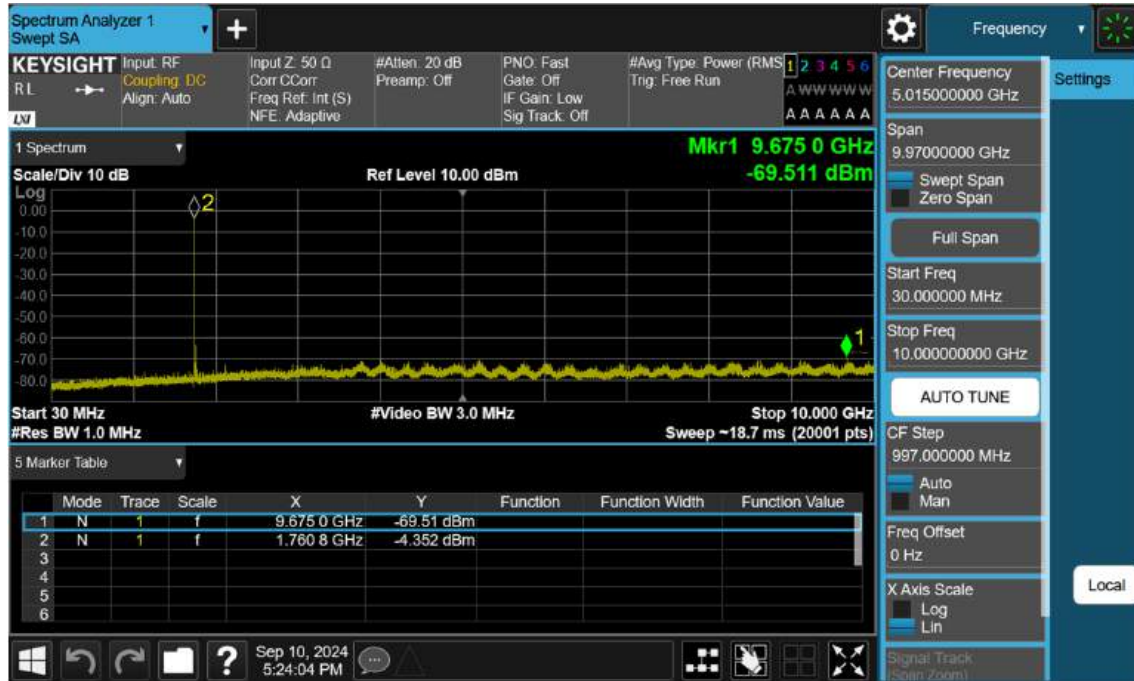
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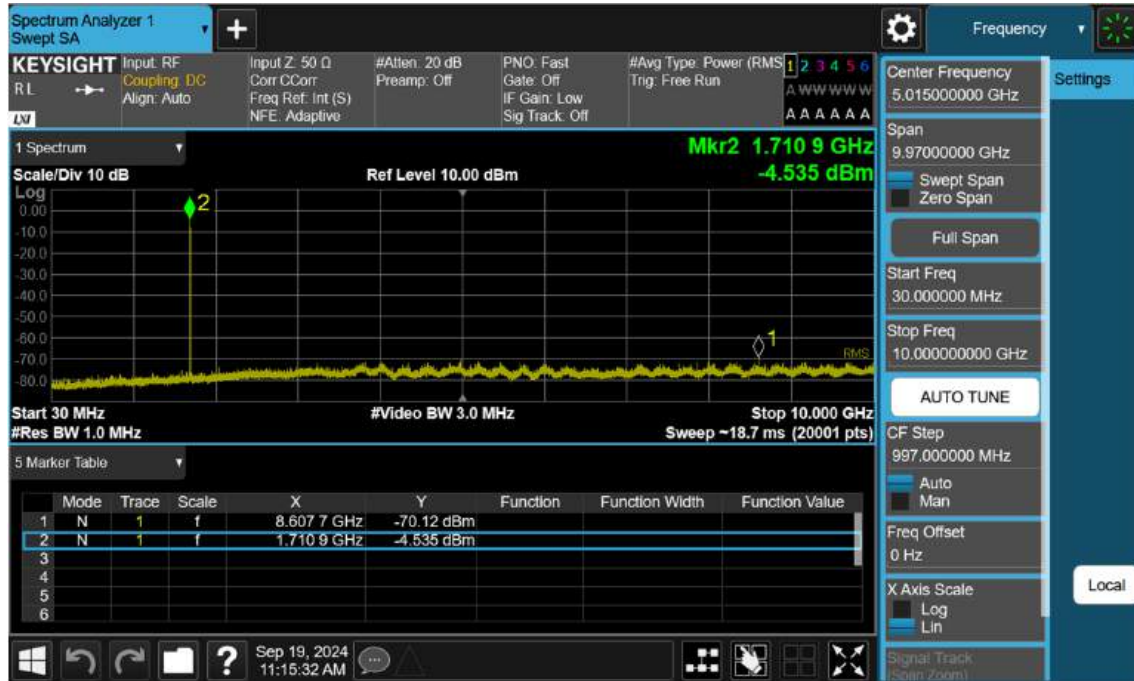
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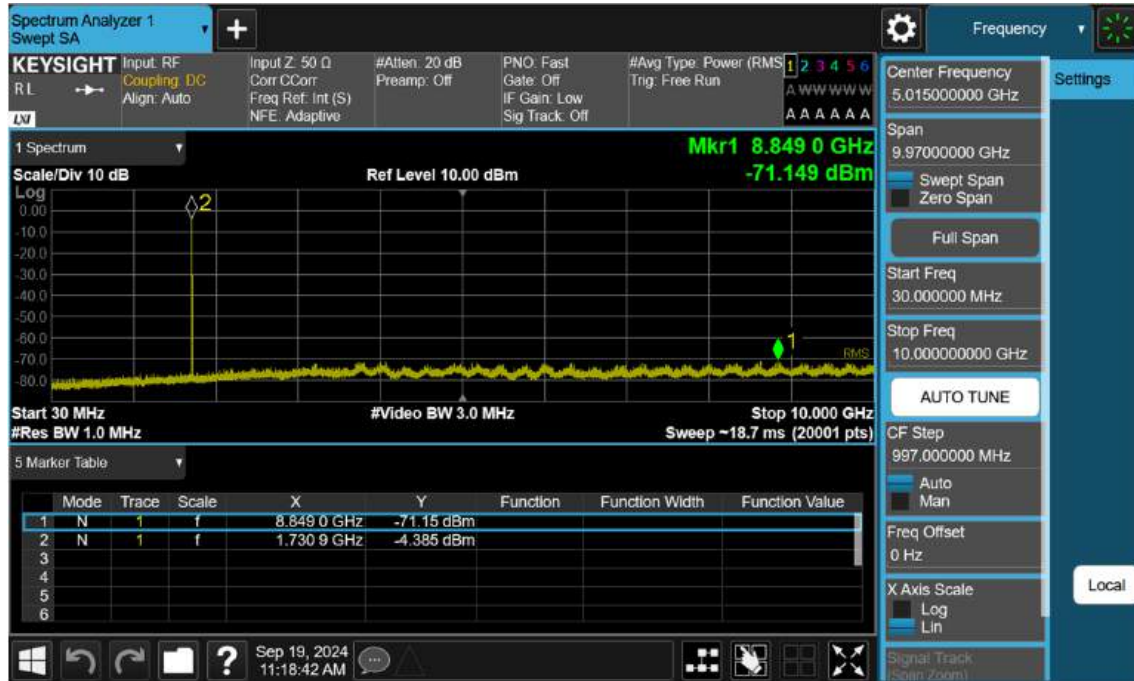
NR66_20 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



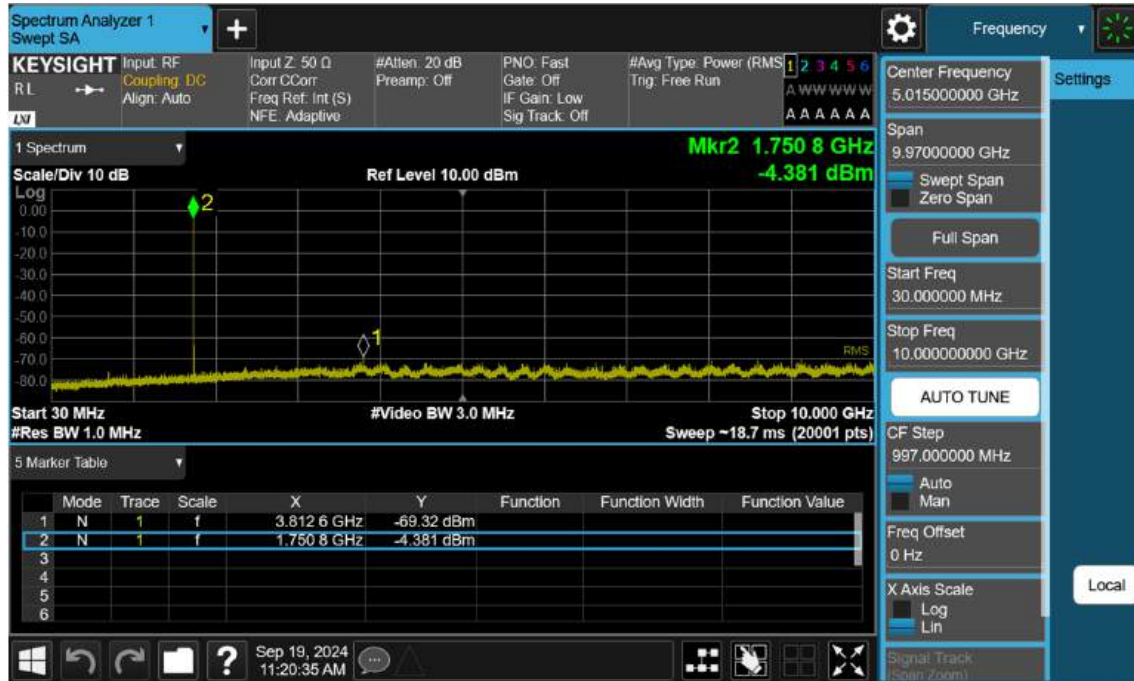
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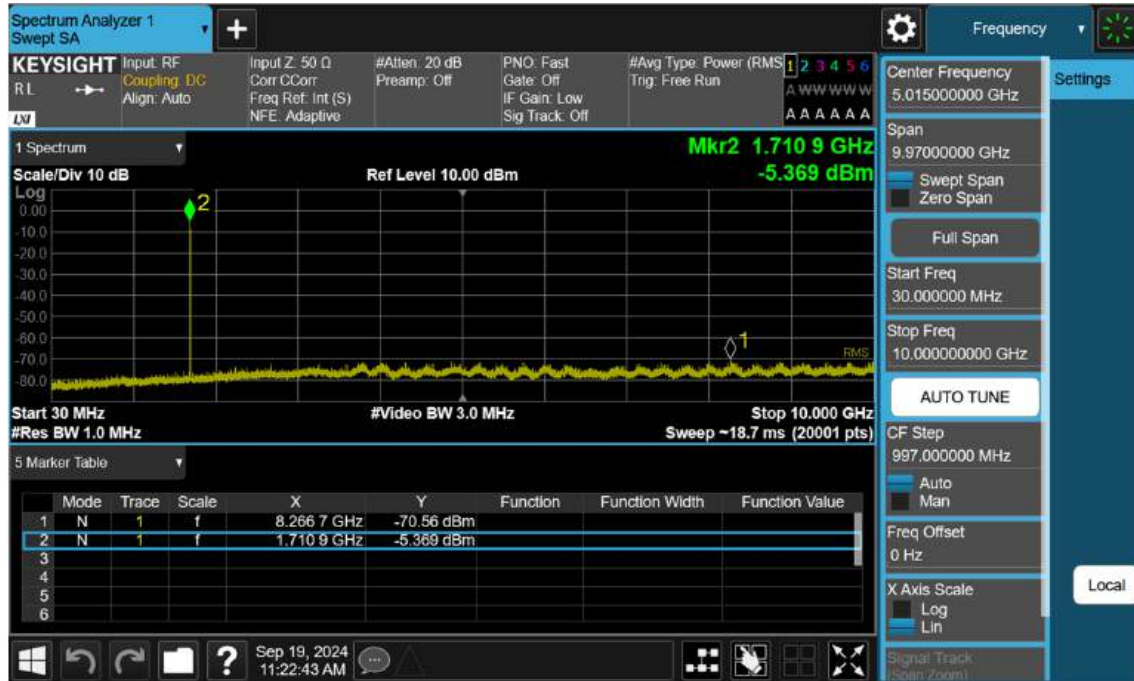
NR66_30 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB



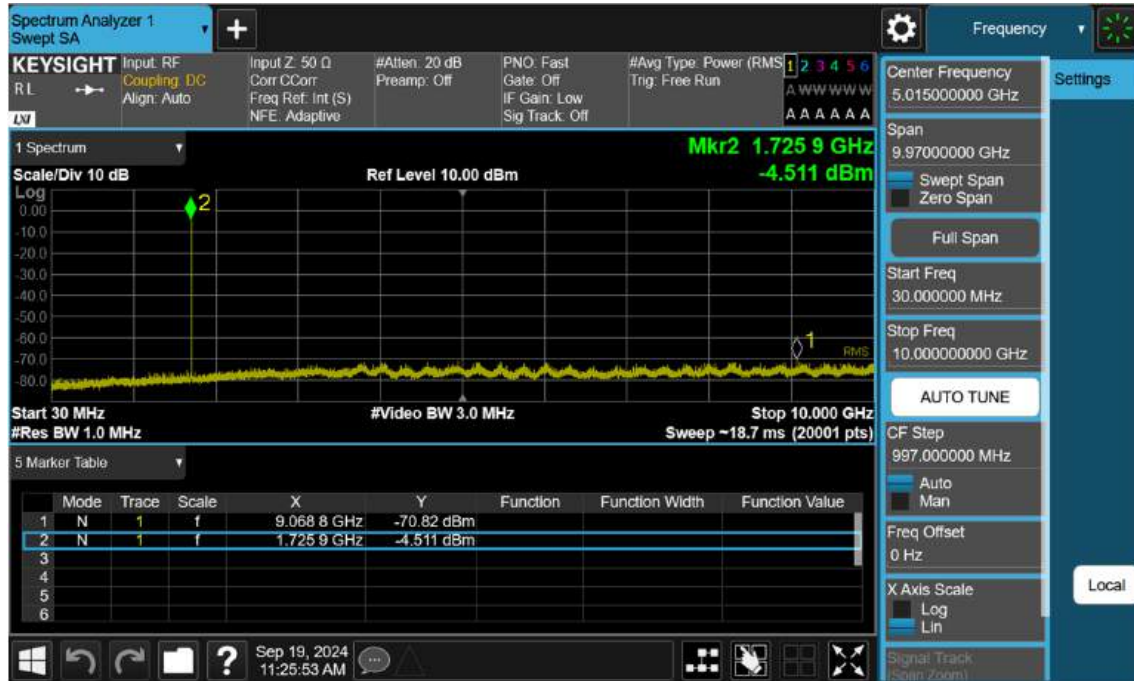
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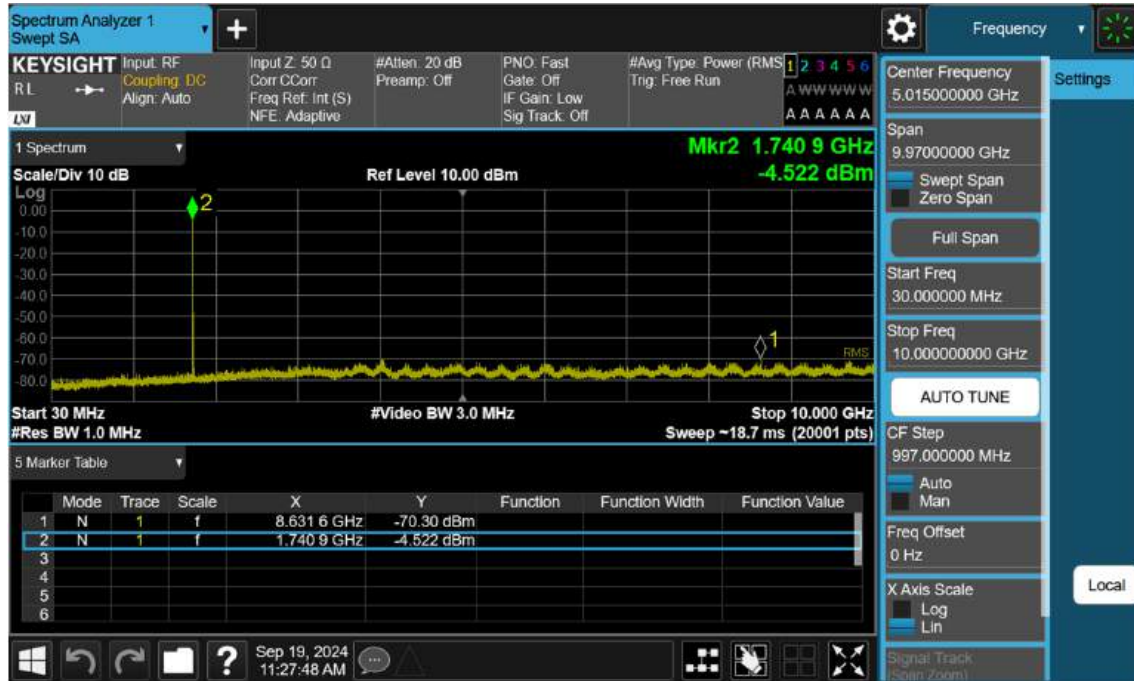
NR66_40 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB



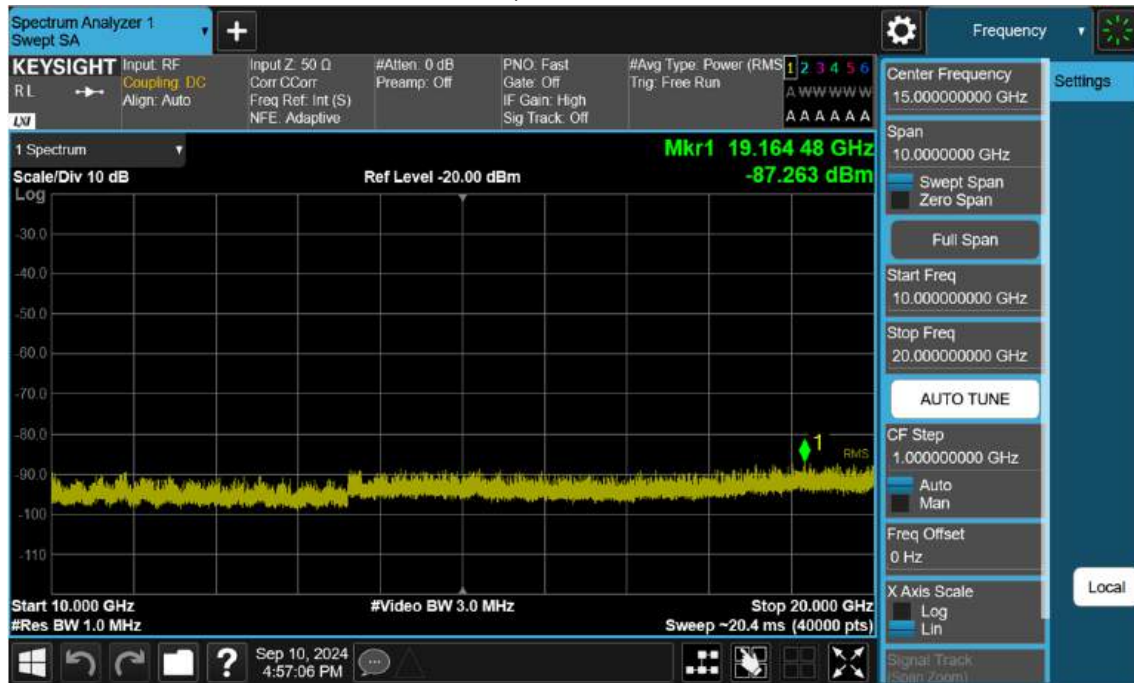
NR66_40 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB



NR66_40 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



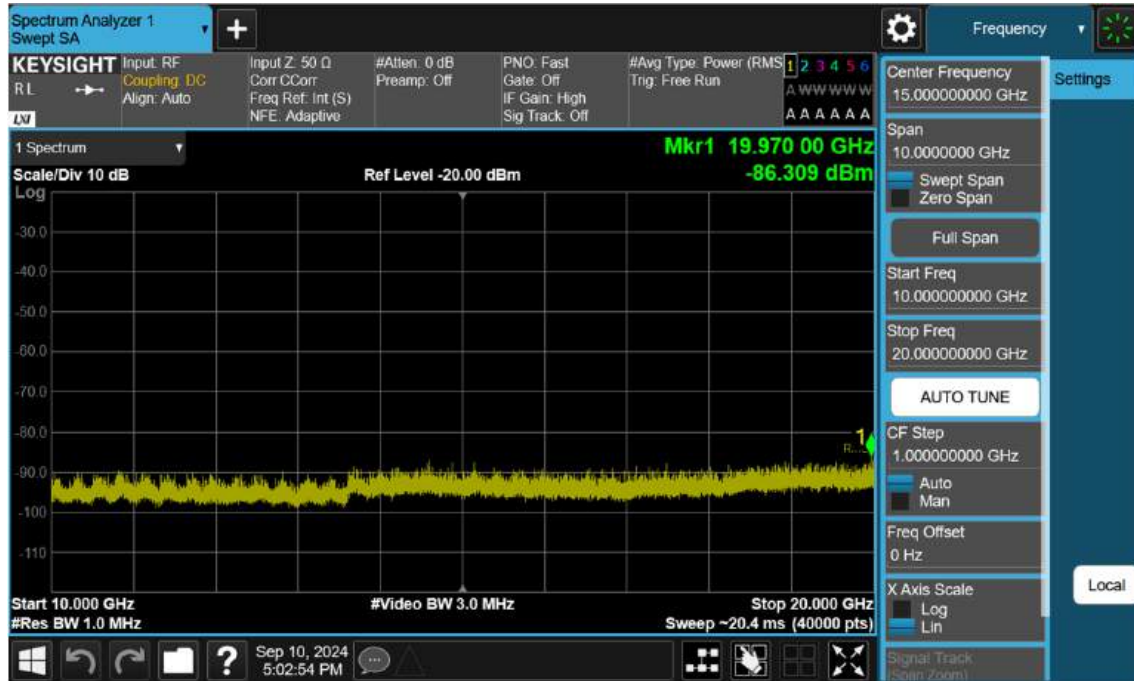
NR66_5 M_Conducted Spurious(Above10 G)_Low_BPSK_1RB



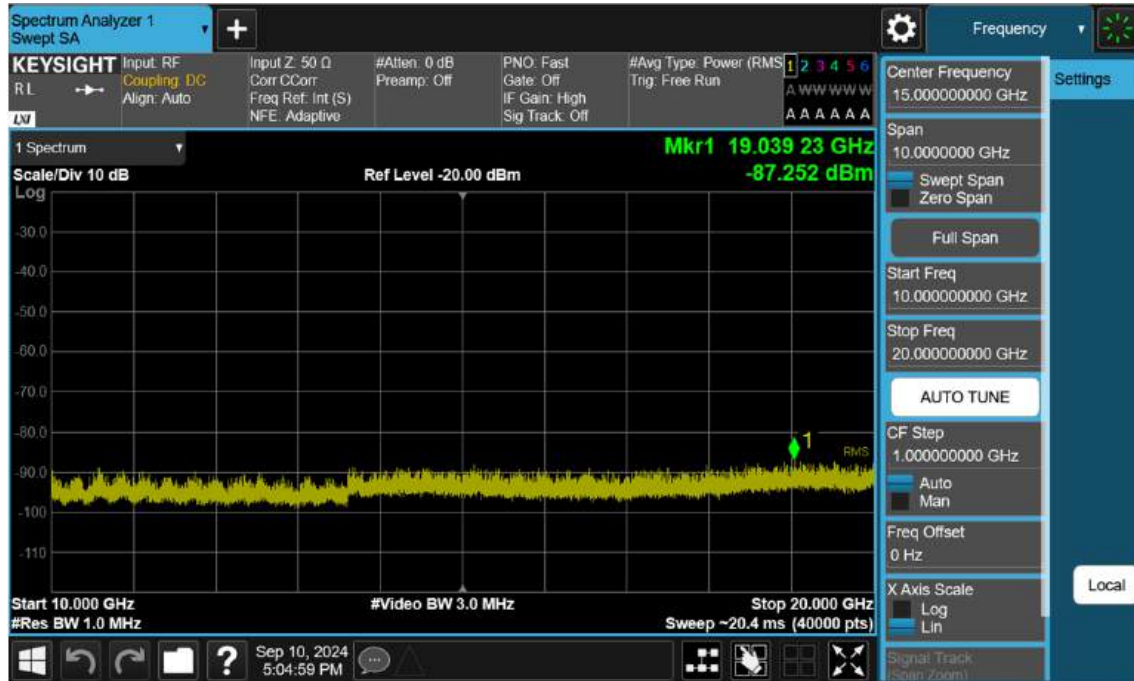
NR66_5 M_Conducted Spurious(Above10 G)_Mid_BPSK_1RB



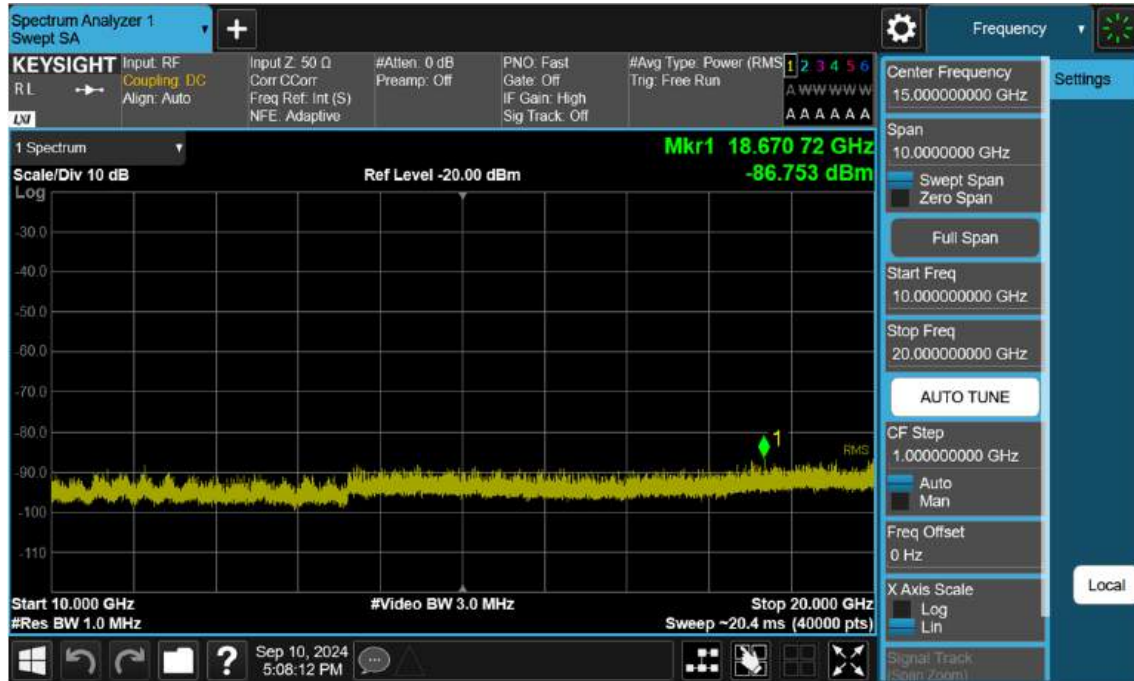
NR66_5 M_Conducted Spurious(Above10 G)_High_BPSK_1RB



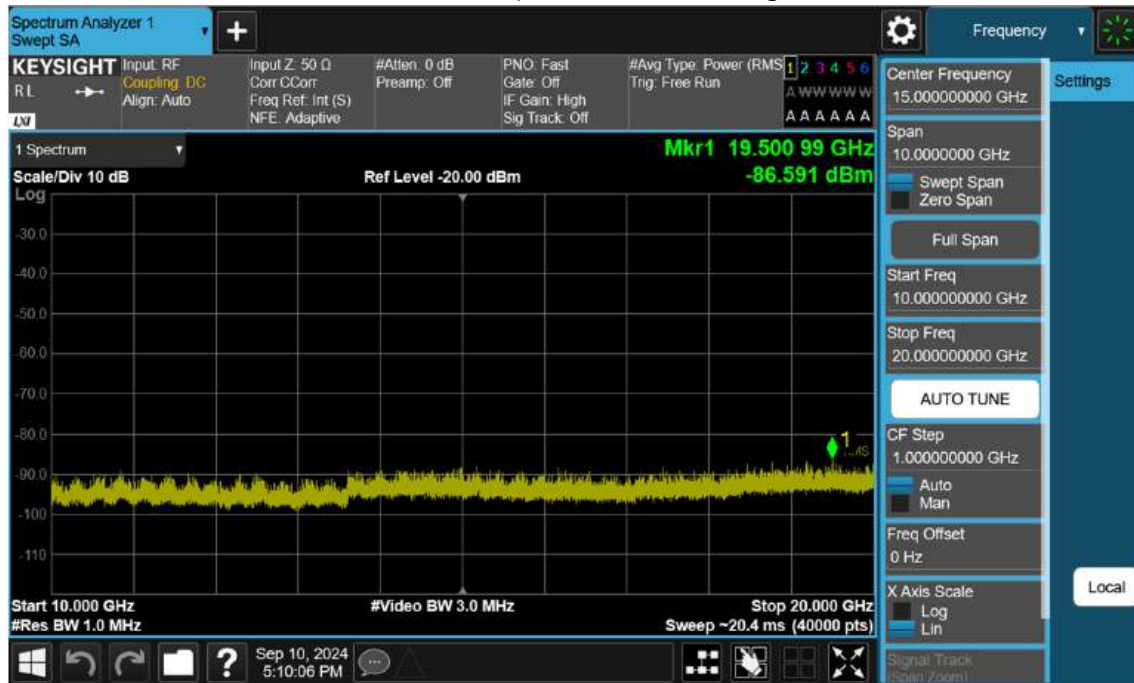
NR66_10 M_Conducted Spurious(Above10 G)_Low_BPSK_1RB



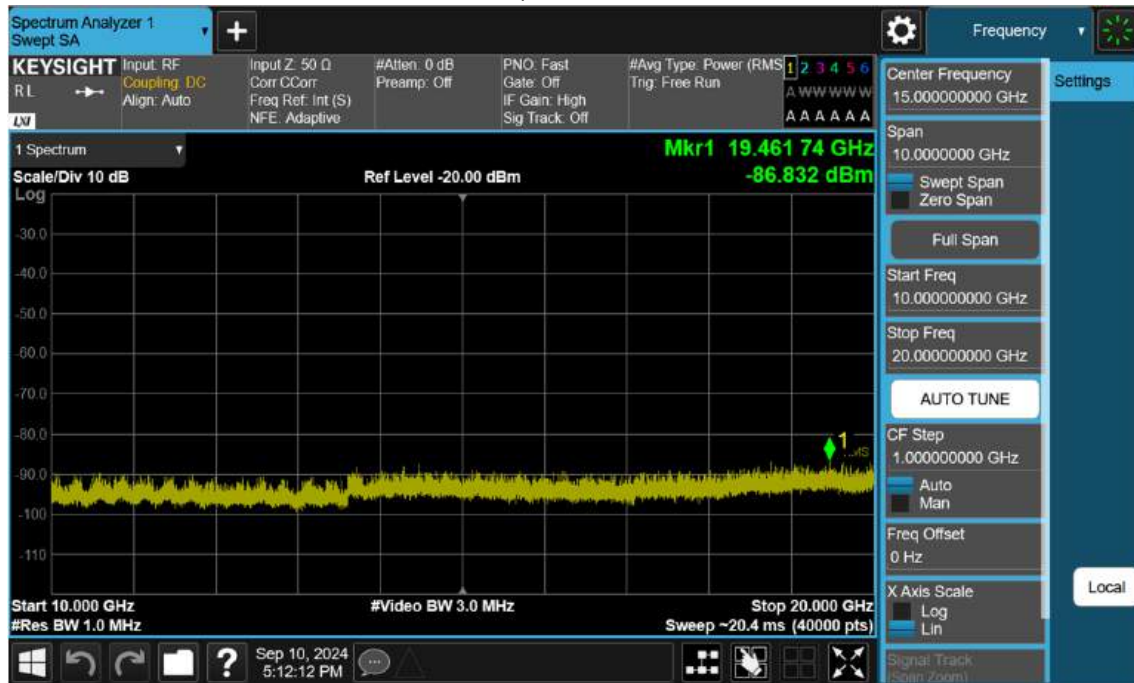
NR66_10 M_Conducted Spurious(Above10 G)_Mid_BPSK_1RB



NR66_10 M_Conducted Spurious(Above10 G)_High_BPSK_1RB



NR66_15 M_Conducted Spurious(Above10 G)_Low_BPSK_1RB



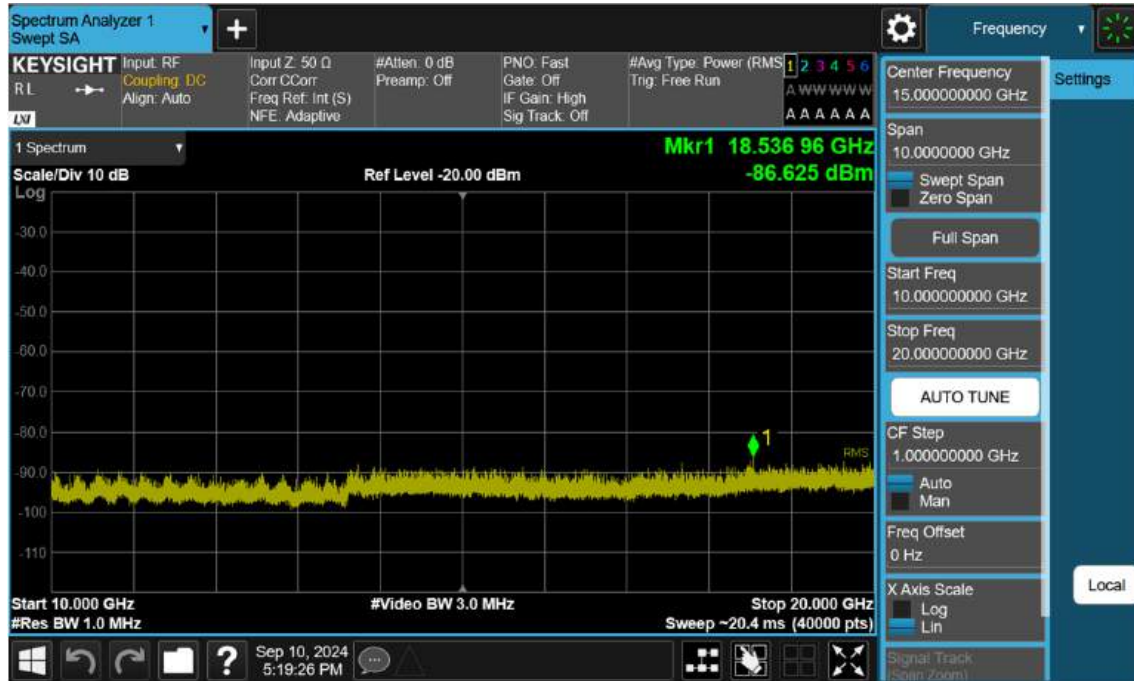
NR66_15 M_Conducted Spurious(Above10 G)_Mid_BPSK_1RB



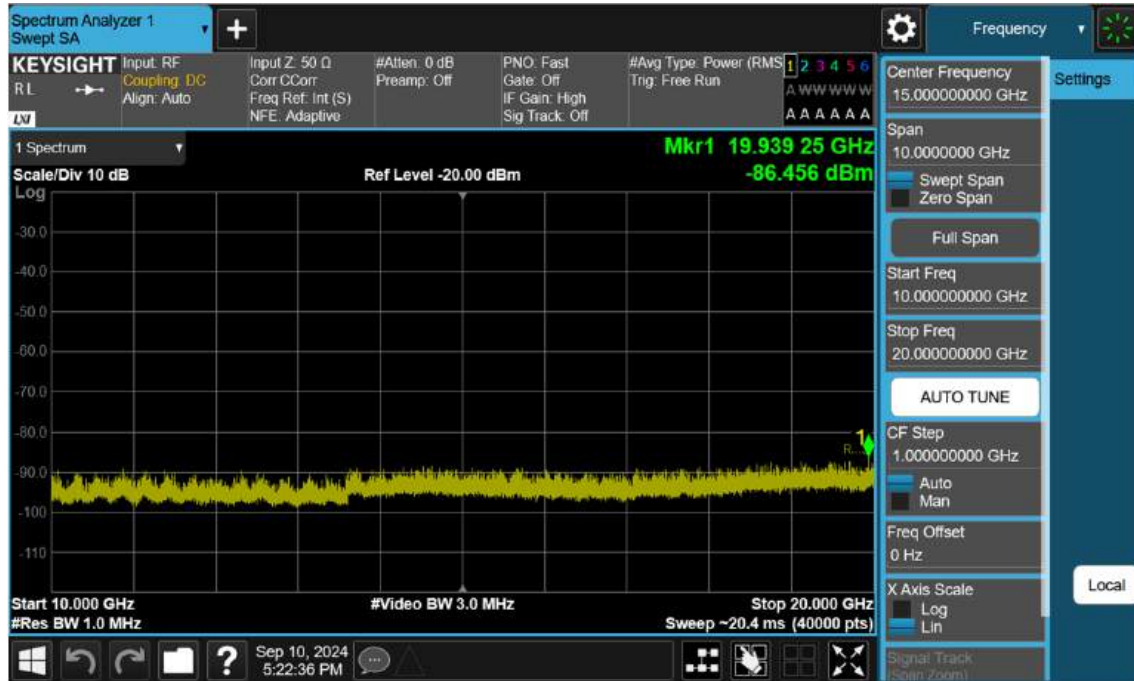
NR66_15 M_Conducted Spurious(Above10 G)_High_BPSK_1RB



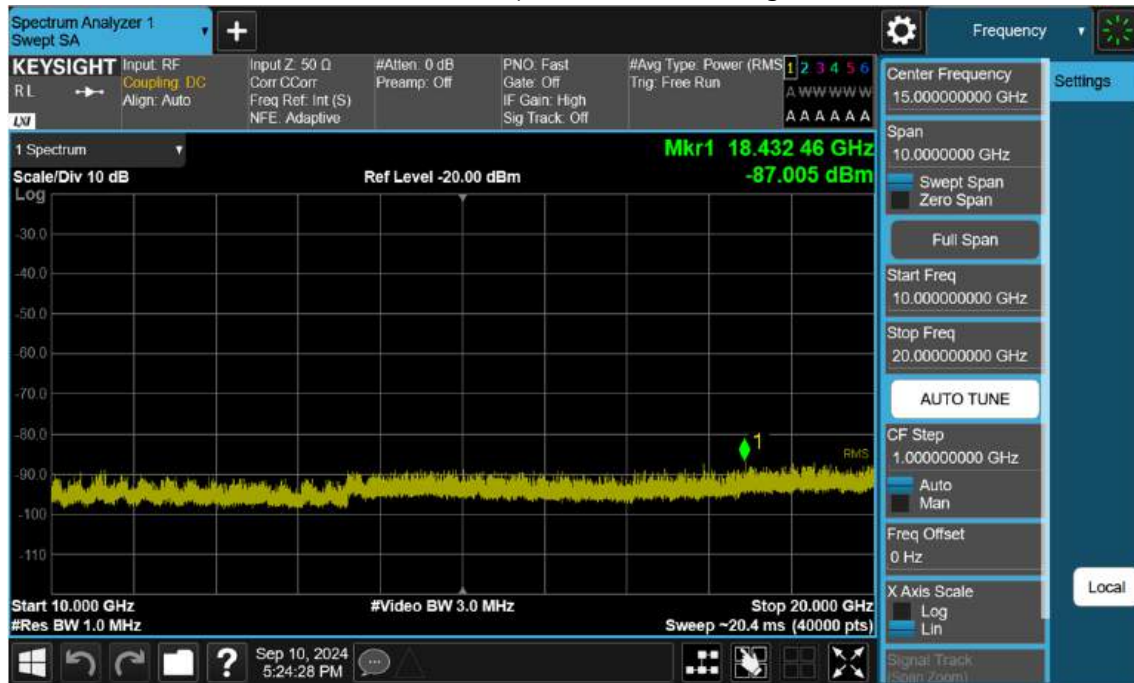
NR66_20 M_Conducted Spurious(Above10 G)_Low_BPSK_1RB



NR66_20 M_Conducted Spurious(Above10 G)_Mid_BPSK_1RB



NR66_20 M_Conducted Spurious(Above10 G)_High_BPSK_1RB



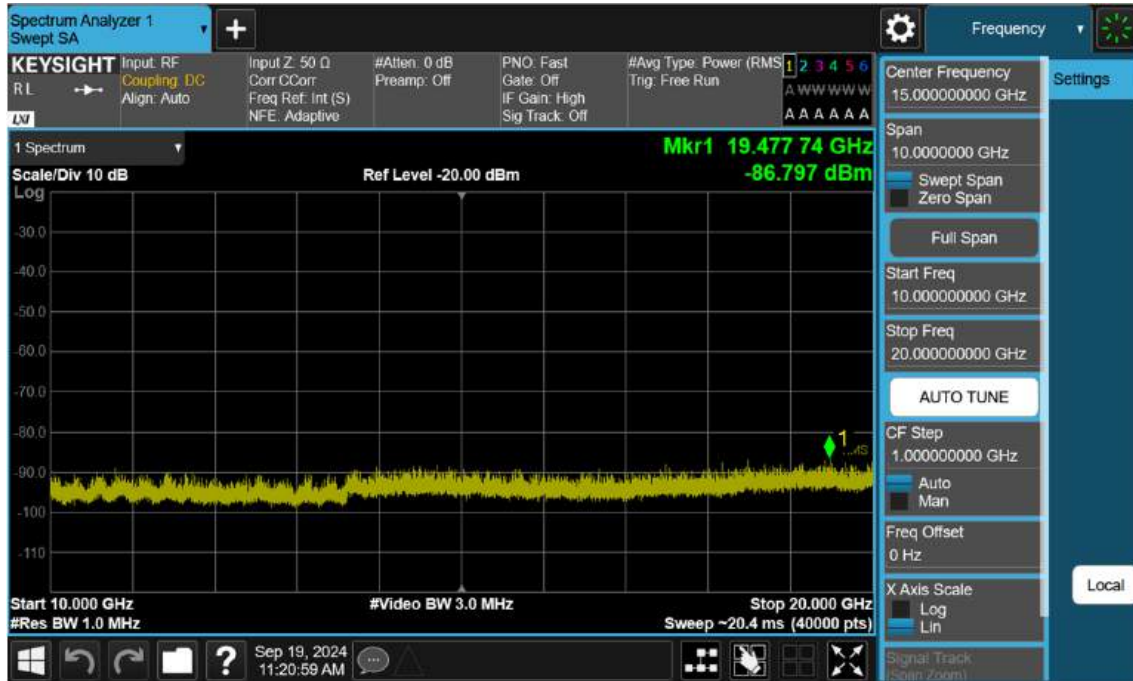
NR66_30 M_Conducted Spurious(Above10 G)_Low_BPSK_1RB



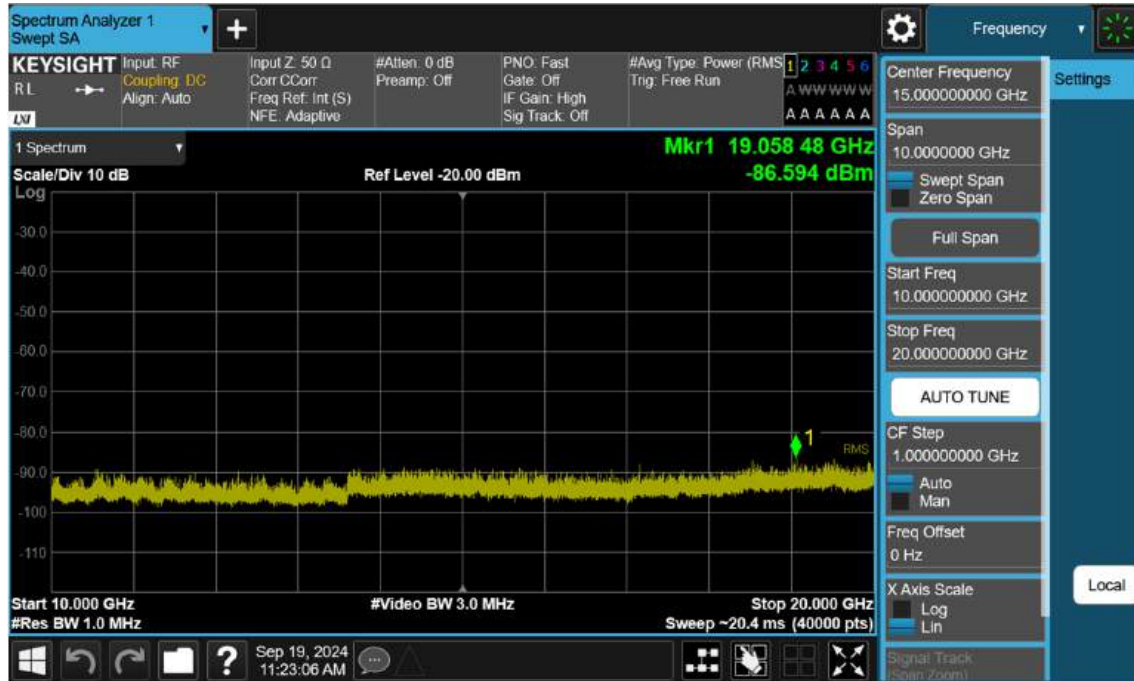
NR66_30 M_Conducted Spurious(Above10 G)_Mid_BPSK_1RB



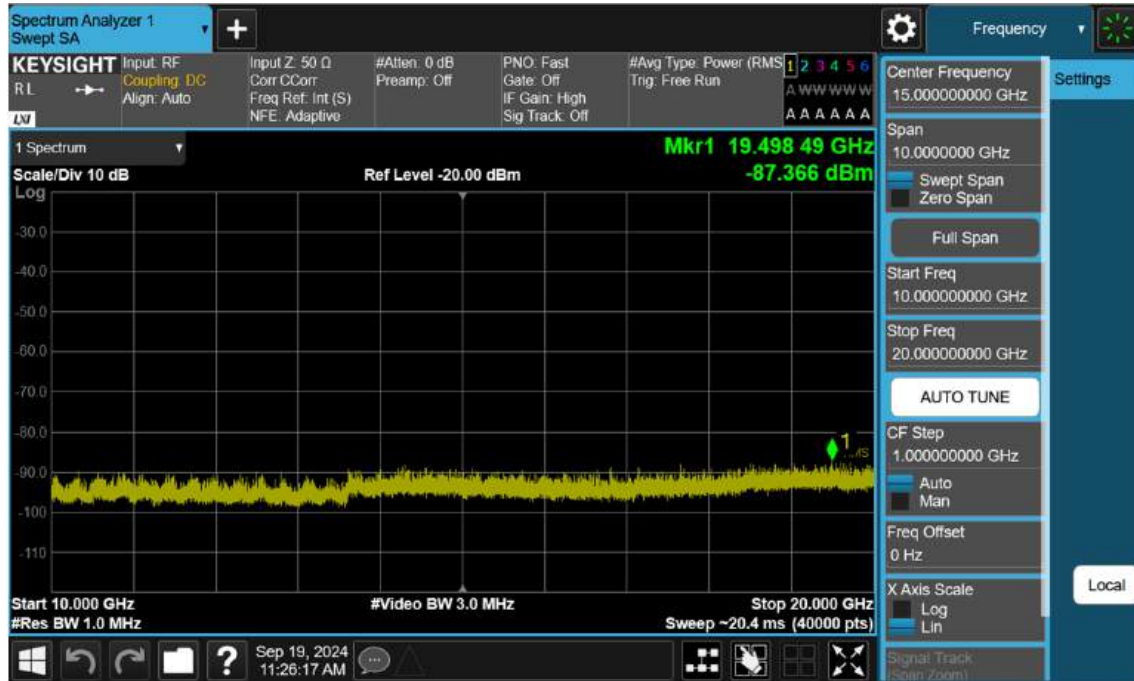
NR66_30 M_Conducted Spurious(Above10 G)_High_BPSK_1RB



NR66_40 M_Conducted Spurious(Above10 G)_Low_BPSK_1RB



NR66_40 M_Conducted Spurious(Above10 G)_Mid_BPSK_1RB



NR66_40 M_Conducted Spurious(Above10 G)_High_BPSK_1RB



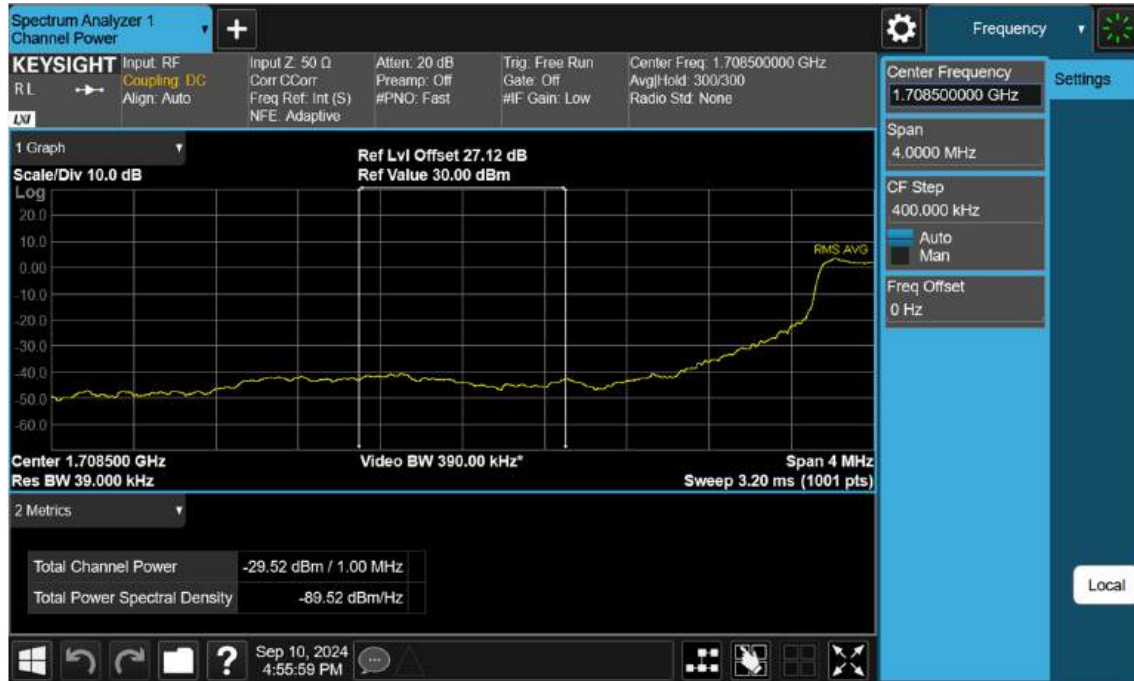
NR66_5 M_Band Edge_Low_BPSK_1RB



NR66_5 M_Band Edge_Low_BPSK_FullIRB



NR66_5 M_Extended Band Edge_Low_BPSK_FullRB



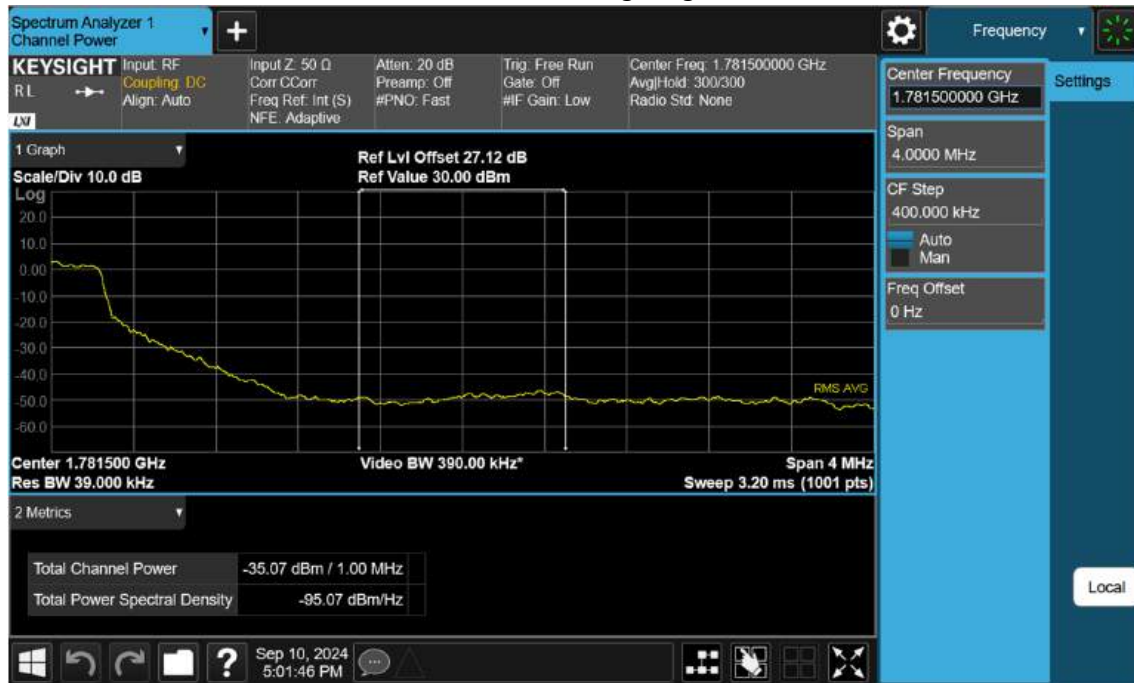
NR66_5 M_Band Edge_High_BPSK_1RB



NR66_5 M_Band Edge_High_BPSK_FullRB



NR66_5 M_Extended Band Edge_High_BPSK_FullRB



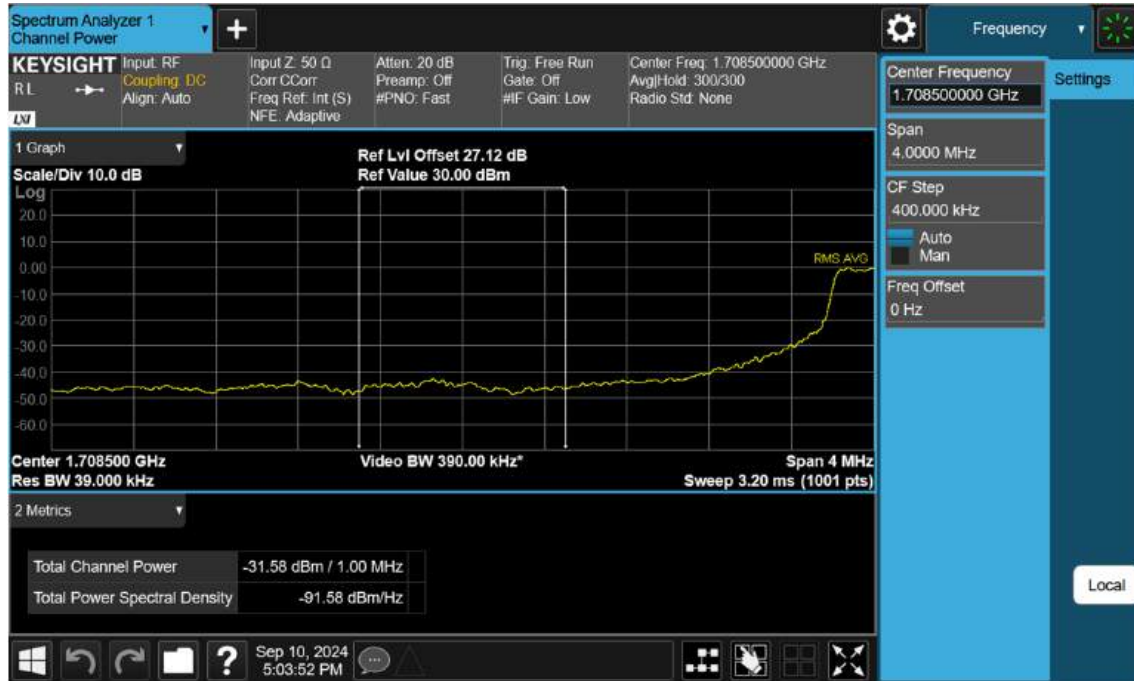
NR66_10 M_Band Edge_Low_BPSK_1RB



NR66_10 M_Band Edge_Low_BPSK_FullRB



NR66_10 M_Extended Band Edge_Low_BPSK_FullIRB



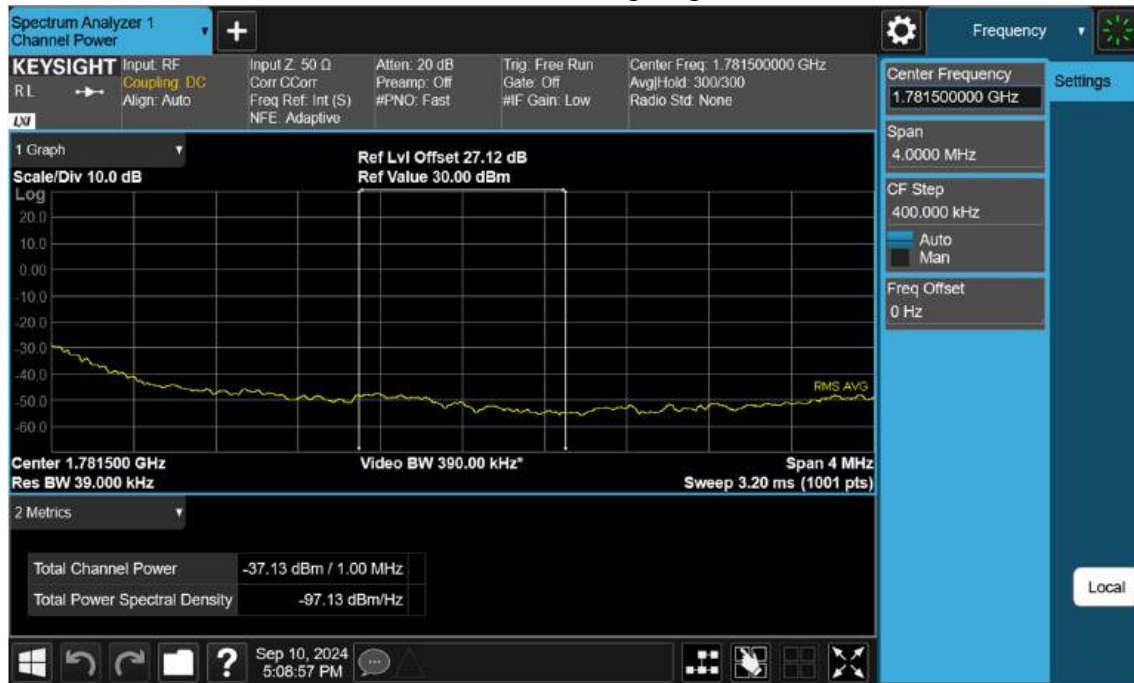
NR66_10 M_Band Edge_High_BPSK_1RB



NR66_10 M_Band Edge_High_BPSK_FullRB



NR66_10 M_Extended Band Edge_High_BPSK_FullRB



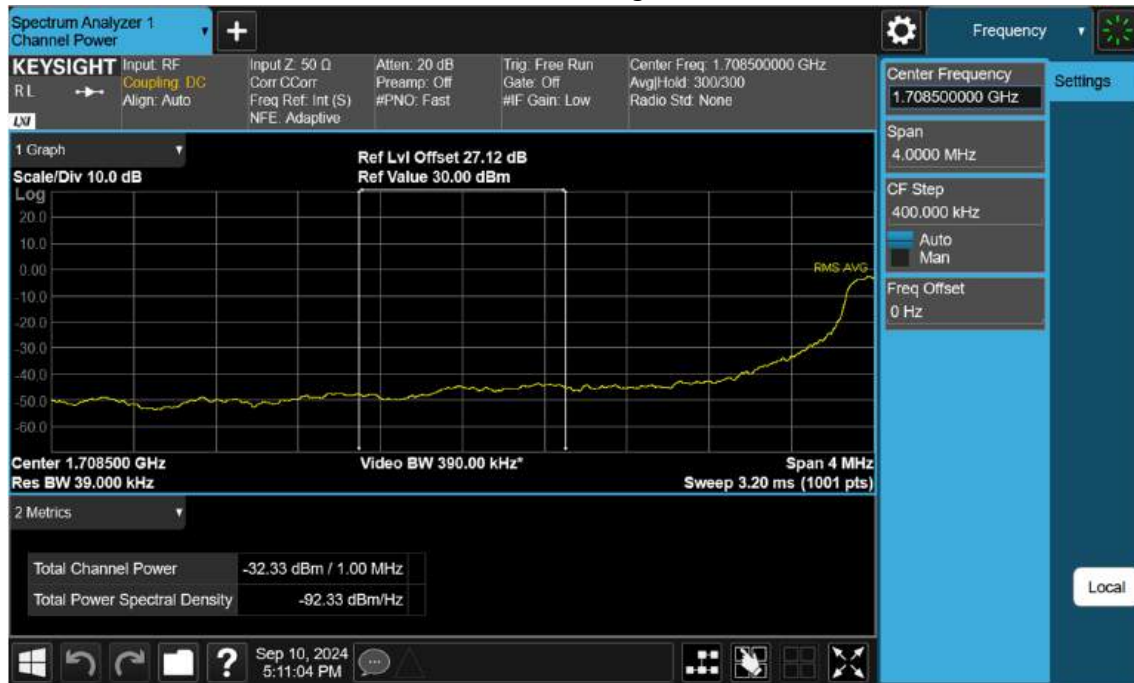
NR66_15 M_Band Edge_Low_BPSK_1RB



NR66_15 M_Band Edge_Low_BPSK_FullRB



NR66_15 M_Extended Band Edge_Low_BPSK_FullIRB



NR66_15 M_Band Edge_High_BPSK_1RB



NR66_15 M_Band Edge_High_BPSK_FullRB

